



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: 2024731-B011

Ballast type: AC

Test No: 2024731-C011

Voltage(V): 35.060

LampCAT: LUXEON CoB 1203 LES9

Current(A): 0.300

Lamp flux(lm): 1274.0

Power (W): 10.518

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1180.29, Efficiency(%): 92.64% , Luminous Efficacy(lm/W): 112.22

Central intensity(cd): 5699.565, Maximum intensity(cd): 5699.565

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=50.0

[C90/270]Total=50.0

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

Maximum s/h(1/4): C0_180=0.35 C90_270=0.35

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 92.64%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.889%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/7/31
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	5699.565	0.000	0	0.00%	0.00%
1.0	5649.674	5.430	5.43	0.43%	0.46%
2.0	5503.076	16.007	21.438	1.26%	1.82%
3.0	5281.714	25.794	47.232	2.02%	4.00%
4.0	4956.695	34.271	81.503	2.69%	6.91%
5.0	4571.763	40.991	122.494	3.22%	10.38%
6.0	4169.201	45.936	168.43	3.61%	14.27%
7.0	3761.446	49.225	217.655	3.86%	18.44%
8.0	3338.840	50.815	268.471	3.99%	22.75%
9.0	2923.257	50.751	319.221	3.98%	27.05%
10.0	2588.289	49.877	369.099	3.92%	31.27%
11.0	2274.974	48.594	417.693	3.81%	35.39%
12.0	2025.230	47.007	464.7	3.69%	39.37%
13.0	1747.701	44.775	509.476	3.51%	43.17%
14.0	1548.864	42.196	551.671	3.31%	46.74%
15.0	1416.705	40.713	592.384	3.20%	50.19%
16.0	1293.508	39.712	632.096	3.12%	53.55%
17.0	1160.092	38.209	670.305	3.00%	56.79%
18.0	1068.123	36.738	707.044	2.88%	59.90%
19.0	980.332	35.639	742.683	2.80%	62.92%
20.0	897.113	34.362	777.045	2.70%	65.84%
21.0	821.736	33.005	810.051	2.59%	68.63%
22.0	749.900	31.583	841.633	2.48%	71.31%
23.0	686.586	30.141	871.775	2.37%	73.86%
24.0	630.617	28.799	900.573	2.26%	76.30%
25.0	569.987	27.299	927.872	2.14%	78.61%
26.0	515.510	25.623	953.496	2.01%	80.78%
27.0	465.342	23.997	977.493	1.88%	82.82%
28.0	415.151	22.292	999.785	1.75%	84.71%
29.0	367.192	20.468	1020.253	1.61%	86.44%
30.0	318.084	18.502	1038.755	1.45%	88.01%
31.0	280.074	16.646	1055.401	1.31%	89.42%
32.0	234.712	14.748	1070.149	1.16%	90.67%
33.0	195.385	12.671	1082.82	0.99%	91.74%
34.0	164.236	10.883	1093.703	0.85%	92.66%
35.0	122.356	8.900	1102.604	0.70%	93.42%
36.0	98.501	7.032	1109.636	0.55%	94.01%
37.0	76.650	5.712	1115.348	0.45%	94.50%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	59.576	4.547	1119.895	0.36%	94.88%
39.0	47.111	3.642	1123.537	0.29%	95.19%
40.0	37.484	2.950	1126.487	0.23%	95.44%
41.0	31.273	2.448	1128.936	0.19%	95.65%
42.0	26.723	2.107	1131.043	0.17%	95.83%
43.0	23.555	1.862	1132.905	0.15%	95.99%
44.0	21.514	1.701	1134.606	0.13%	96.13%
45.0	19.934	1.593	1136.199	0.13%	96.26%
46.0	18.537	1.505	1137.704	0.12%	96.39%
47.0	17.447	1.431	1139.135	0.11%	96.51%
48.0	16.576	1.375	1140.51	0.11%	96.63%
49.0	15.845	1.331	1141.842	0.10%	96.74%
50.0	15.172	1.293	1143.135	0.10%	96.85%
51.0	14.609	1.260	1144.395	0.10%	96.96%
52.0	14.236	1.238	1145.633	0.10%	97.06%
53.0	13.943	1.226	1146.858	0.10%	97.17%
54.0	13.643	1.216	1148.074	0.10%	97.27%
55.0	13.453	1.210	1149.284	0.09%	97.37%
56.0	13.343	1.211	1150.495	0.10%	97.48%
57.0	13.219	1.214	1151.709	0.10%	97.58%
58.0	13.124	1.218	1152.927	0.10%	97.68%
59.0	12.999	1.221	1154.148	0.10%	97.79%
60.0	12.824	1.220	1155.368	0.10%	97.89%
61.0	12.568	1.212	1156.58	0.10%	97.99%
62.0	12.246	1.196	1157.776	0.09%	98.09%
63.0	11.800	1.169	1158.945	0.09%	98.19%
64.0	11.390	1.138	1160.083	0.09%	98.29%
65.0	10.936	1.105	1161.188	0.09%	98.38%
66.0	10.505	1.070	1162.258	0.08%	98.47%
67.0	10.066	1.034	1163.292	0.08%	98.56%
68.0	9.649	0.999	1164.291	0.08%	98.64%
69.0	9.166	0.960	1165.251	0.08%	98.73%
70.0	8.683	0.917	1166.167	0.07%	98.80%
71.0	8.347	0.880	1167.048	0.07%	98.88%
72.0	8.040	0.852	1167.9	0.07%	98.95%
73.0	7.783	0.827	1168.727	0.06%	99.02%
74.0	7.535	0.805	1169.532	0.06%	99.09%
75.0	7.330	0.785	1170.318	0.06%	99.16%

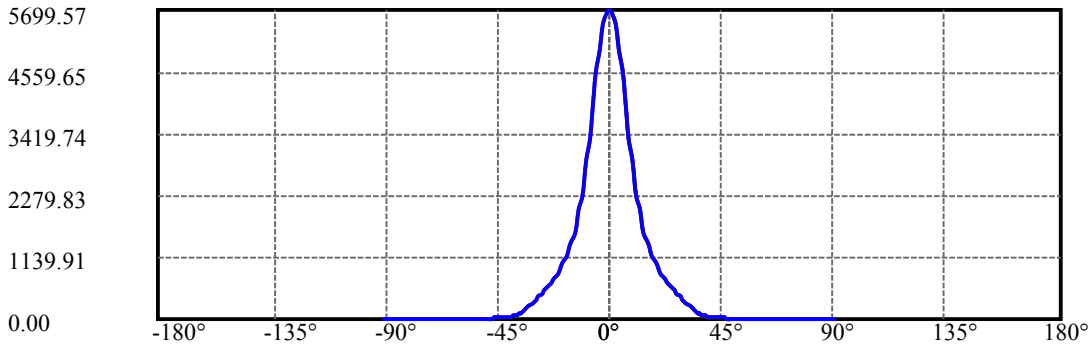
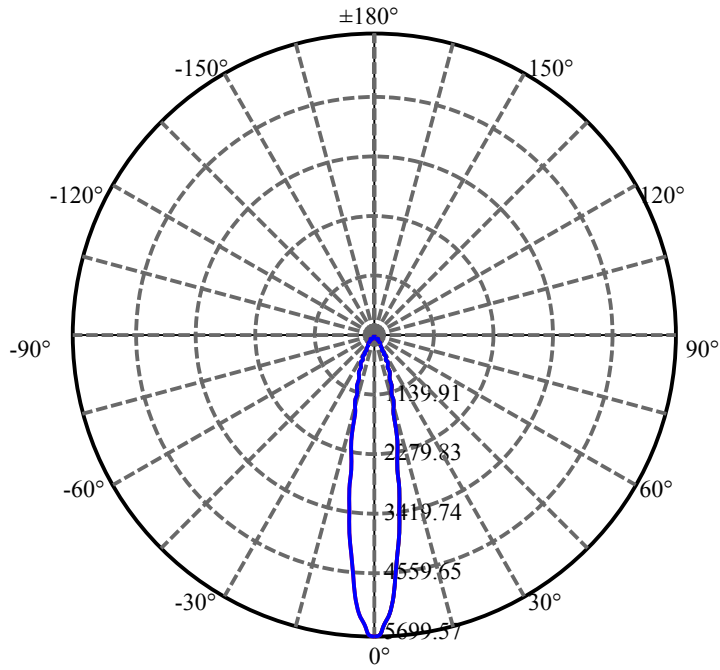
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.147	0.768	1171.086	0.06%	99.22%
77.0	6.957	0.752	1171.838	0.06%	99.28%
78.0	6.818	0.737	1172.576	0.06%	99.35%
79.0	6.650	0.724	1173.299	0.06%	99.41%
80.0	6.489	0.708	1174.008	0.06%	99.47%
81.0	6.364	0.695	1174.703	0.05%	99.53%
82.0	6.233	0.683	1175.386	0.05%	99.58%
83.0	6.086	0.670	1176.055	0.05%	99.64%
84.0	5.947	0.656	1176.711	0.05%	99.70%
85.0	5.808	0.642	1177.353	0.05%	99.75%
86.0	5.545	0.621	1177.973	0.05%	99.80%
87.0	5.355	0.597	1178.57	0.05%	99.85%
88.0	5.238	0.580	1179.15	0.05%	99.90%
89.0	5.194	0.572	1179.722	0.04%	99.95%
90.0	5.150	0.567	1180.289	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1038.76	81.53%	88.01%
0-40	1126.49	88.42%	95.44%
0-60	1155.37	90.69%	97.89%
0-90	1179.72	92.60%	99.95%
0-120	1179.72	92.60%	99.95%
0-180	1180.29	92.64%	100.00%
60-90	24.35	1.91%	2.06%
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%
0-25.64	944.23	74.12%	80.00%

ZONAL LUMEN SUMMARY

0-10	369.10
10-20	407.95
20-30	261.71
30-40	87.73
40-50	16.65
50-60	12.23
60-70	10.80
70-80	7.84
80-90	5.71
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



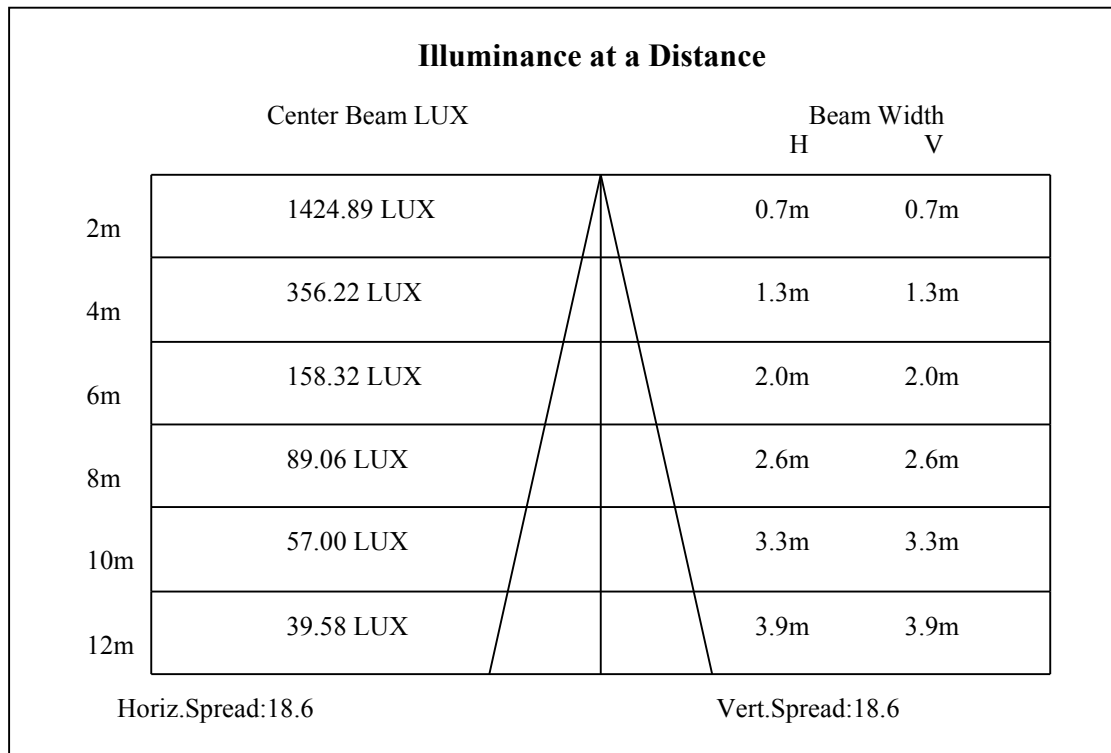
C0(Max): —————

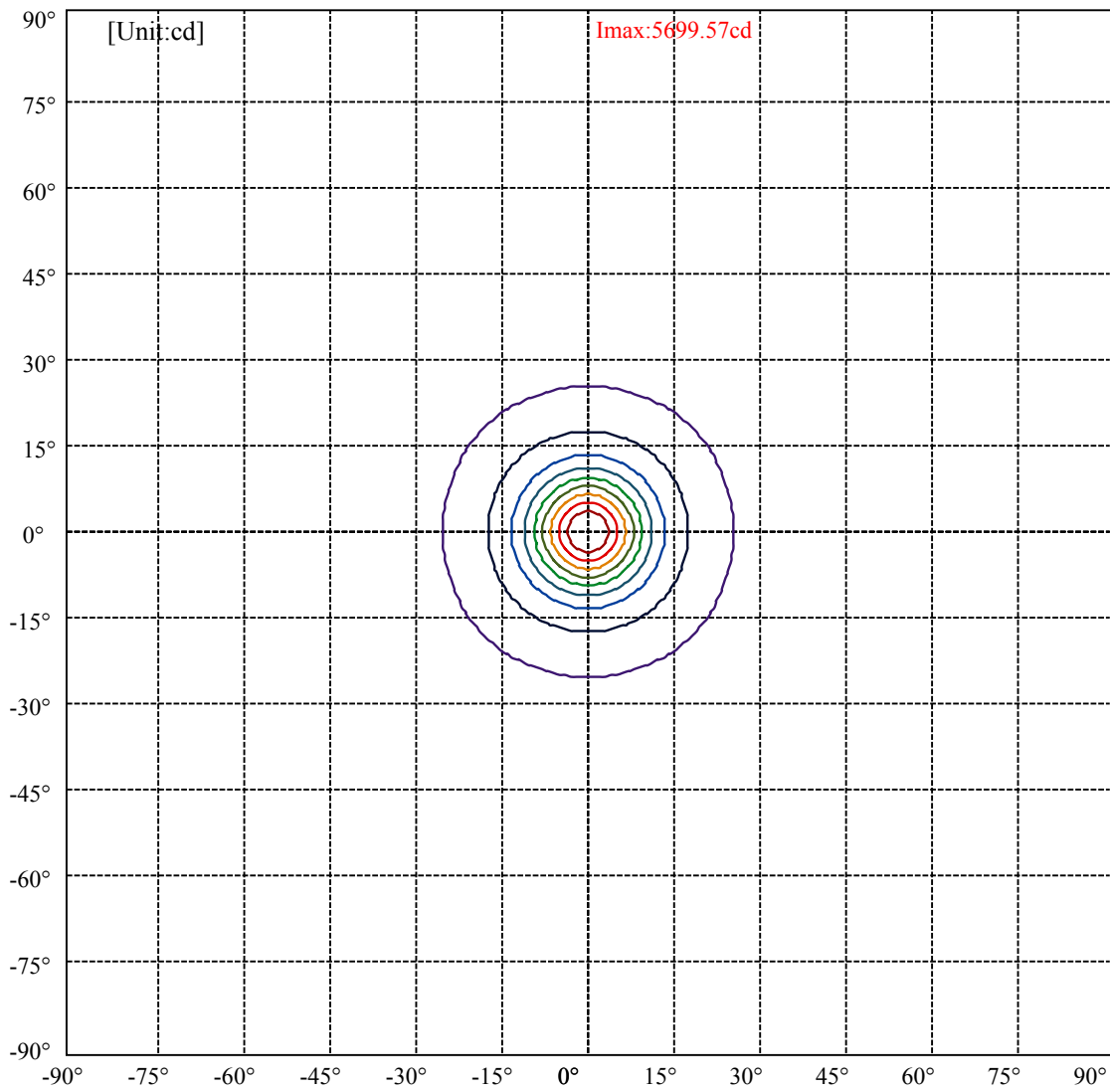
C0/C180: —————

C90/C270: —————

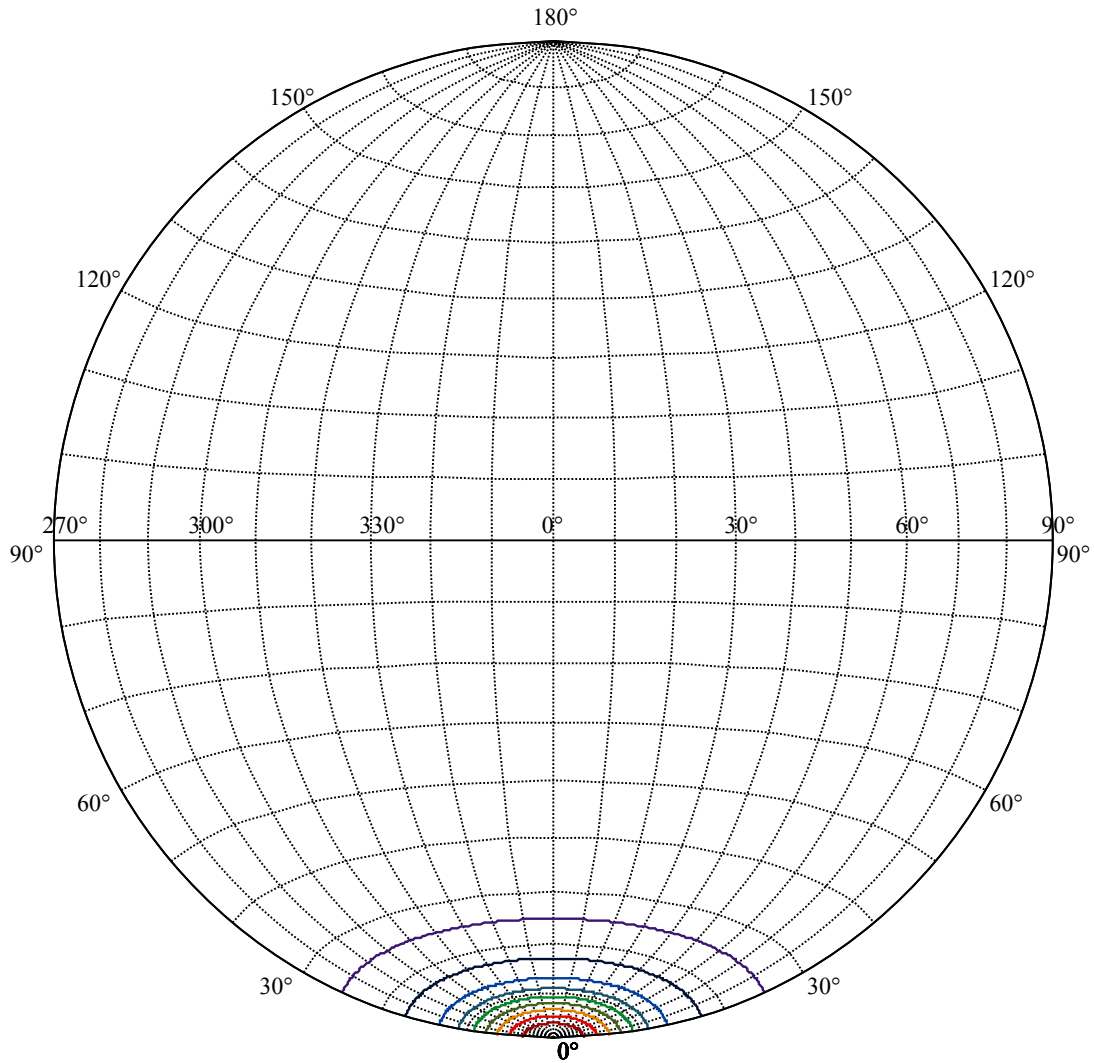
Field angle(10%Imax):C0/180Left:25.0 Right:25.0
:C90/270Left:25.0 Right:25.0

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





(10%Imax) 569.957	—
(20%Imax) 1139.91	—
(30%Imax) 1709.87	—
(40%Imax) 2279.83	—
(50%Imax) 2849.78	—
(60%Imax) 3419.74	—
(70%Imax) 3989.7	—
(80%Imax) 4559.65	—
(90%Imax) 5129.61	—



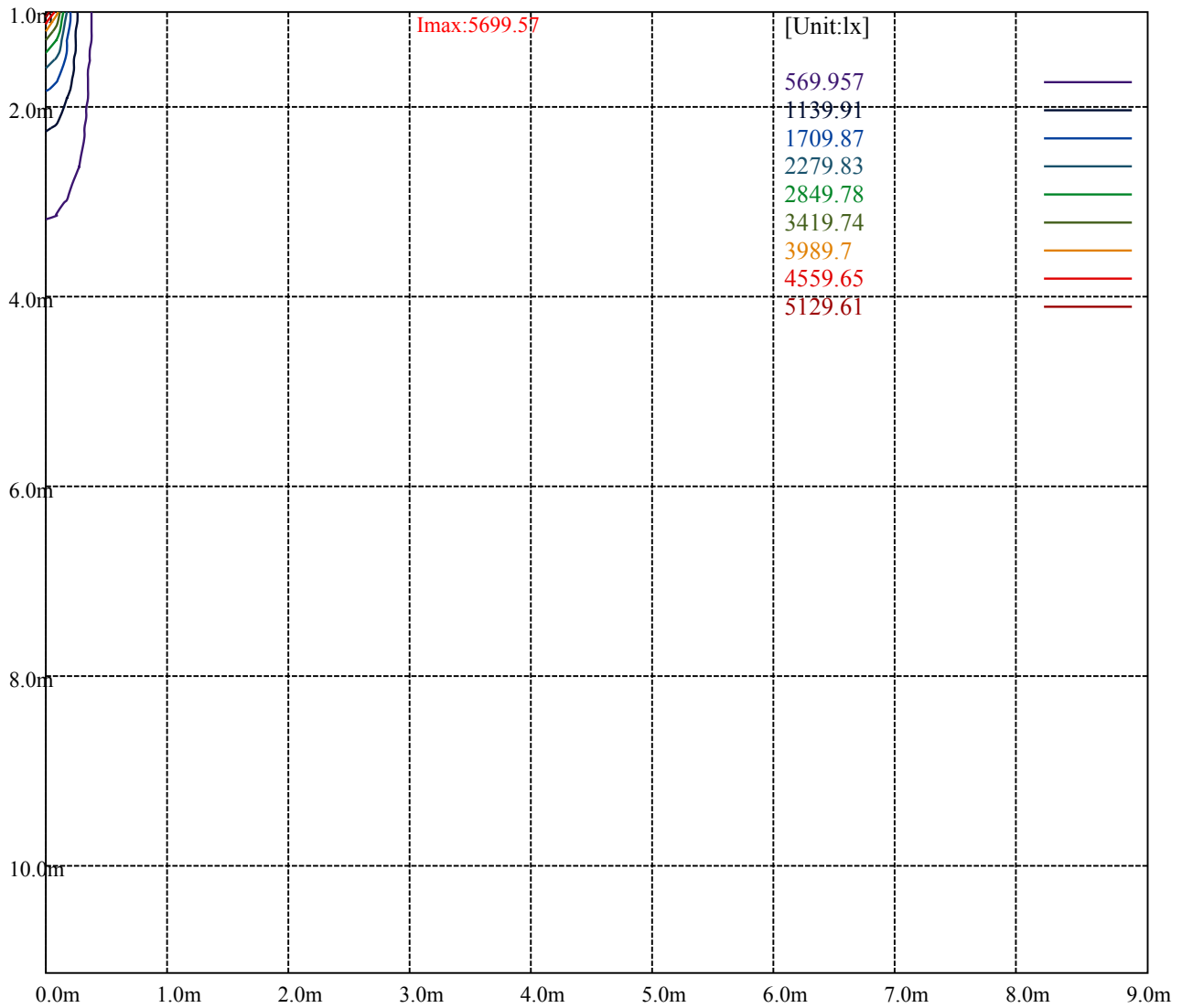
House

[Unit:cd]

Road

Imax:5699.57

(10%Imax) 569.957	—
(20%Imax) 1139.91	—
(30%Imax) 1709.87	—
(40%Imax) 2279.83	—
(50%Imax) 2849.78	—
(60%Imax) 3419.74	—
(70%Imax) 3989.7	—
(80%Imax) 4559.65	—
(90%Imax) 5129.61	—



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

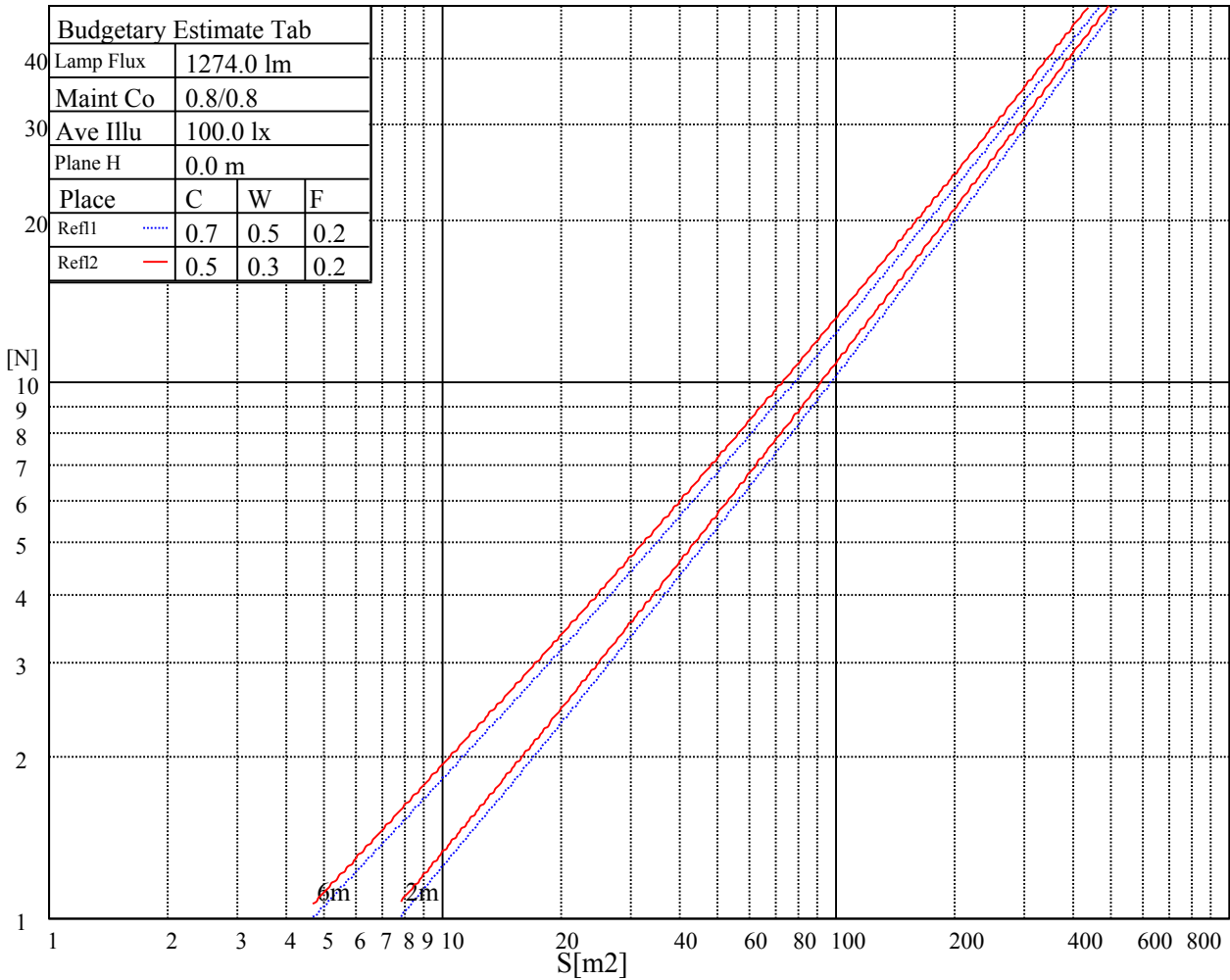
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

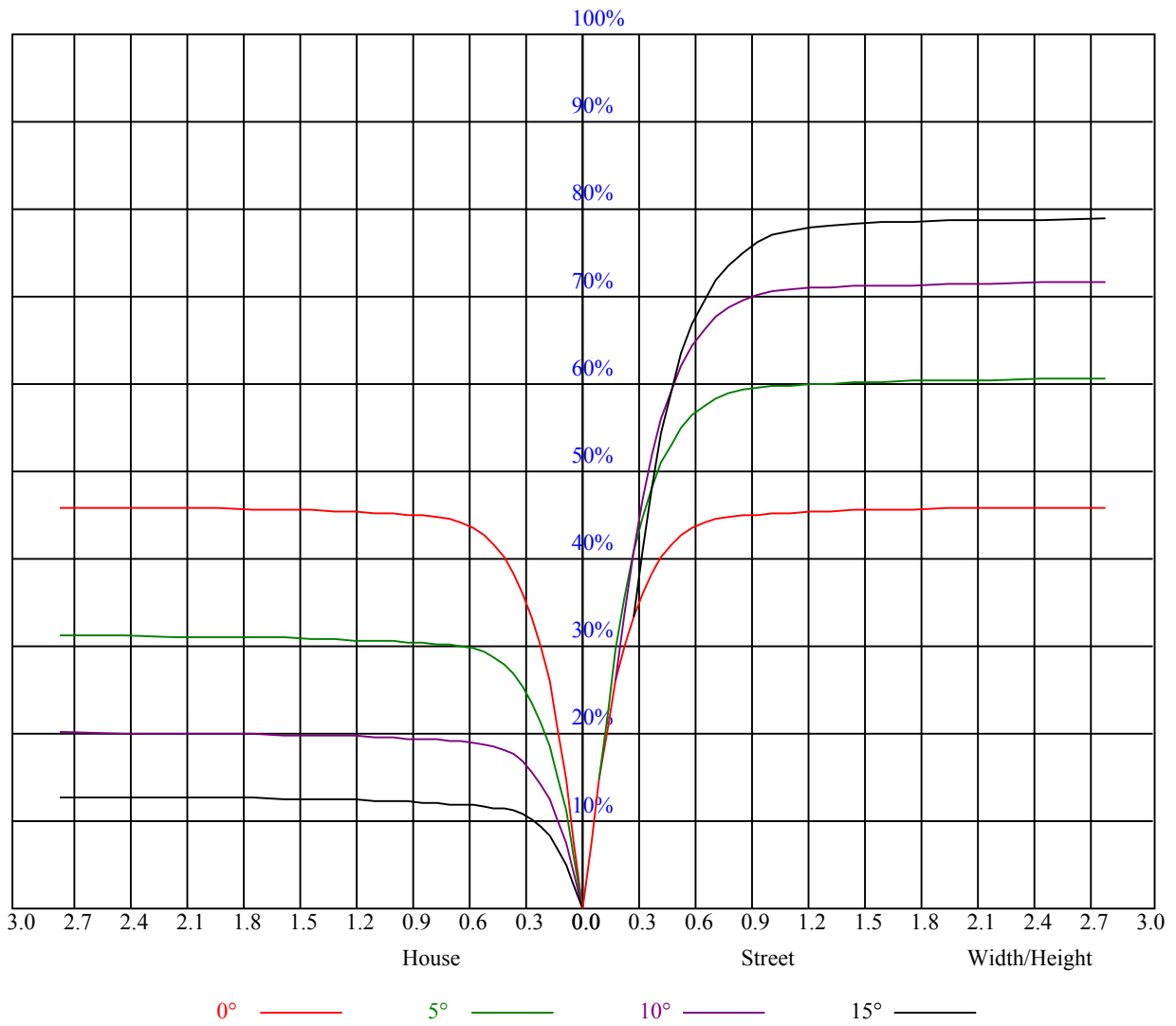


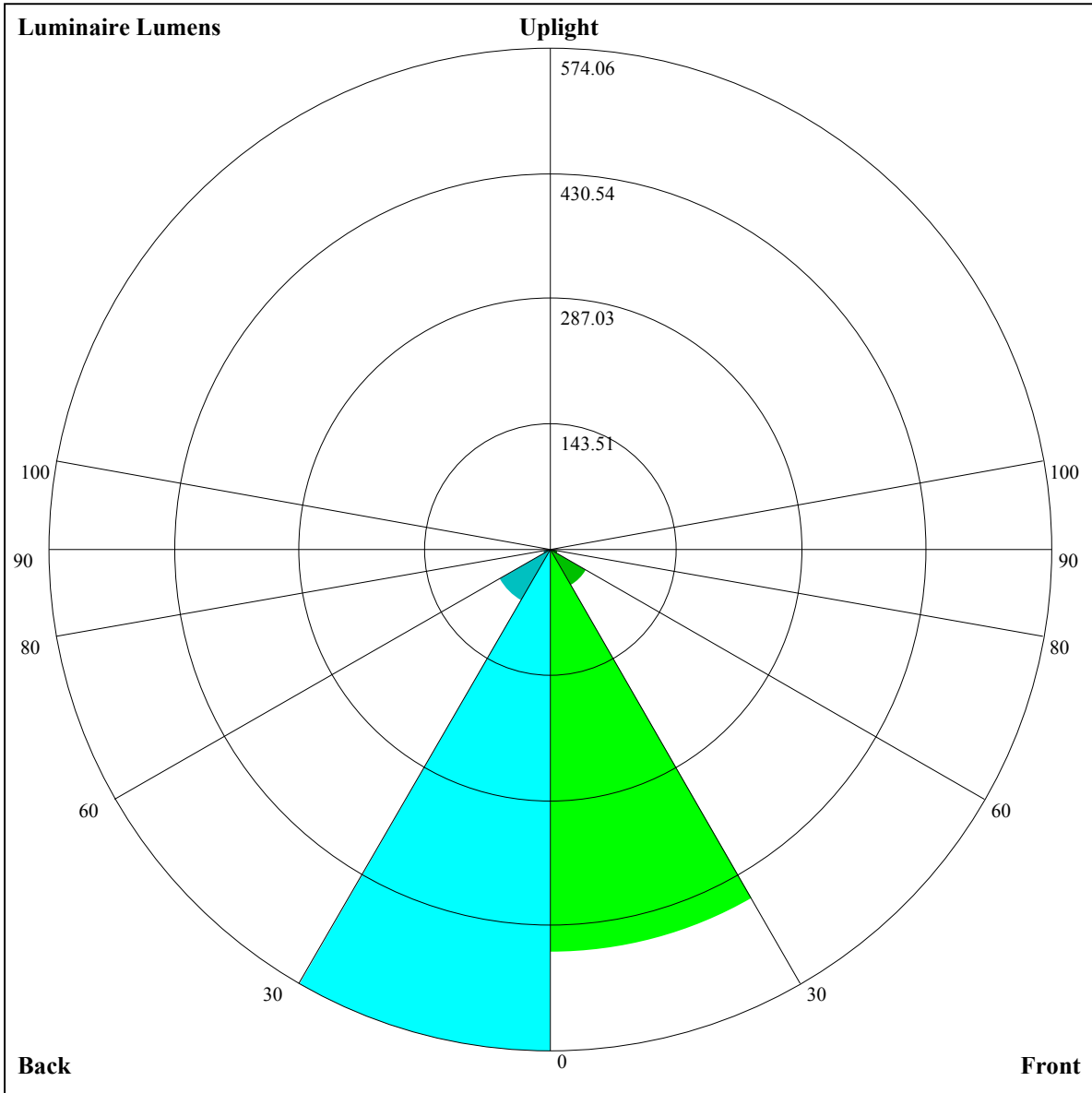
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	
4H	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	
	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	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	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	1.10	1.10	1.10	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.04	1.02	1.00	1.02	1.00	0.98	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.90	0.88
2	0.98	0.95	0.92	0.96	0.93	0.91	0.93	0.91	0.89	0.91	0.89	0.87	0.88	0.87	0.85	0.84
3	0.93	0.89	0.86	0.92	0.88	0.85	0.89	0.86	0.84	0.87	0.85	0.83	0.85	0.83	0.82	0.80
4	0.89	0.84	0.81	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.77
5	0.85	0.81	0.77	0.84	0.80	0.77	0.82	0.79	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.74
6	0.81	0.77	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
7	0.78	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.69
8	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
9	0.73	0.69	0.66	0.72	0.68	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.64
10	0.70	0.66	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.62





Luminaire Lumens:

FL=461.02,FM=47.71,FH=9.11,FVH=3.09

BL=574.06,BM=68.42,BH=9.56,BVH=3.18

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	5530.43	5178.71	4792.47	4378.71	3955.01	3434.16	3067.22	2723.11	2355.00
45.0	5906.15	5665.62	5266.50	4893.71	4359.98	3930.43	3520.19	3137.45	2706.72
90.0	5701.32	5472.50	5200.95	4863.28	4392.76	3994.22	3507.31	3135.11	2790.41
135.0	5660.35	5800.22	5825.97	5715.37	5539.21	5258.31	4812.36	4423.19	4004.17
180.0	5530.43	5873.38	6047.77	6114.49	6013.25	5823.05	5519.90	5028.90	4575.93
225.0	5906.15	6050.70	6067.09	5942.43	5714.20	5281.71	4848.06	4365.84	3880.69
270.0	5701.32	5789.69	5766.28	5648.06	5378.86	5059.91	4688.30	4267.52	3729.11
315.0	5660.35	5366.57	5057.57	4697.66	4300.29	3792.32	3390.27	3010.46	2668.68
360.0	5530.43	5178.71	4792.47	4378.71	3955.01	3434.16	3067.22	2723.11	2355.00
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2113.89	1902.62	1672.63	1518.13	1148.97	1148.97	1123.92	1030.41	925.94
45.0	2407.67	2156.61	1933.06	1746.37	1540.37	1410.45	1284.04	1146.51	1052.29
90.0	2485.51	2158.95	1932.47	1739.35	1571.39	1301.01	1153.65	1153.65	1053.99
135.0	3499.70	3118.14	2765.83	2458.59	2132.62	1910.82	1723.55	1561.44	1384.12
180.0	3994.22	3531.89	3098.24	2706.72	2299.41	2039.57	1822.45	1642.20	1461.95
225.0	3287.27	2872.34	2510.09	2205.77	1901.45	1714.18	1522.81	1303.94	1160.68
270.0	3301.90	2909.21	2487.26	2201.67	1908.48	1717.11	1554.42	1413.38	1257.71
315.0	2295.90	2056.54	1800.21	1625.23	1478.92	1148.80	1148.80	1096.54	984.06
360.0	2113.89	1902.62	1672.63	1518.13	1148.97	1148.97	1123.92	1030.41	925.94
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	856.48	792.57	732.12	675.64	608.93	558.48	509.32	450.45	404.51
45.0	953.98	881.99	816.45	737.44	680.09	628.59	576.51	515.06	464.73
90.0	946.72	871.87	802.40	722.99	666.40	597.40	545.84	499.14	442.49
135.0	1262.97	1154.71	1036.49	954.56	863.27	797.72	736.27	664.29	611.03
180.0	1333.20	1213.82	1090.33	1006.06	928.81	835.76	774.90	699.40	644.98
225.0	1135.69	1043.40	964.45	893.11	809.13	747.22	689.34	633.92	596.07
270.0	1151.20	1049.37	962.75	872.63	801.82	740.37	678.92	613.37	563.04
315.0	904.76	834.94	771.91	711.46	640.76	587.16	533.84	484.27	424.23
360.0	856.48	792.57	732.12	675.64	608.93	558.48	509.32	450.45	404.51
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	359.09	299.40	253.93	203.25	166.56	134.37	105.98	77.25	59.93
45.0	417.32	369.92	323.10	299.69	299.69	183.88	141.39	112.60	82.87
90.0	397.48	352.77	308.71	256.62	217.65	182.47	149.88	114.65	91.24
135.0	559.53	511.55	450.68	405.03	359.39	316.08	304.38	253.46	186.86
180.0	594.06	543.73	493.99	433.71	386.89	339.49	305.55	305.55	199.62
225.0	519.56	471.40	425.34	366.82	321.11	265.11	224.43	187.62	145.25
270.0	498.08	451.85	406.20	345.34	300.86	300.86	205.41	167.84	138.41
315.0	377.59	320.59	275.58	234.21	188.44	155.44	126.06	94.92	74.67
360.0	359.09	299.40	253.93	203.25	166.56	134.37	105.98	77.25	59.93
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	47.29	38.27	30.49	26.34	23.58	21.71	19.78	18.55	17.26
45.0	64.37	50.45	38.10	31.25	26.63	23.64	21.07	19.55	18.38
90.0	72.28	54.78	44.48	36.81	30.67	27.51	25.34	23.00	21.65
135.0	154.09	117.57	92.58	72.10	53.55	42.66	33.47	28.68	25.40
180.0	164.27	132.79	99.61	78.01	57.12	44.83	36.05	29.03	25.46
225.0	116.05	91.00	70.75	51.79	41.20	33.88	29.03	25.22	23.17
270.0	110.67	81.29	64.14	50.21	40.97	32.66	28.21	25.22	22.88
315.0	58.99	47.05	36.46	30.37	26.16	23.29	20.83	19.20	17.91
360.0	47.29	38.27	30.49	26.34	23.58	21.71	19.78	18.55	17.26

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	16.33	15.57	14.86	14.40	14.05	13.64	13.40	13.28	13.17
45.0	17.32	16.21	15.57	14.92	14.34	13.93	13.58	13.34	13.23
90.0	20.48	19.43	18.32	17.56	16.97	16.39	15.80	15.45	15.22
135.0	23.23	21.13	19.66	18.49	17.56	16.39	15.74	15.22	14.69
180.0	23.06	20.83	19.43	18.14	17.09	16.15	15.10	14.46	13.93
225.0	21.65	20.01	18.90	17.91	16.91	16.27	15.57	15.04	14.57
270.0	20.72	19.31	17.85	16.80	15.92	15.04	14.51	14.05	13.75
315.0	16.68	15.80	14.98	14.40	13.93	13.58	13.17	13.05	12.99
360.0	16.33	15.57	14.86	14.40	14.05	13.64	13.40	13.28	13.17
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	13.11	13.23	13.28	13.28	13.17	12.93	12.76	12.23	11.70
45.0	13.11	13.11	13.17	13.17	13.17	13.11	12.82	12.58	12.17
90.0	14.98	14.81	14.63	14.57	14.40	14.22	13.75	13.28	12.70
135.0	14.16	13.81	13.58	13.34	13.23	13.17	13.05	12.87	12.58
180.0	13.34	12.99	12.70	12.41	12.29	12.17	12.17	12.17	12.23
225.0	14.16	13.75	13.52	13.28	13.17	13.05	12.99	12.93	12.82
270.0	13.40	13.17	13.05	12.93	12.93	12.99	12.99	12.87	12.70
315.0	12.87	12.76	12.82	12.76	12.64	12.35	12.06	11.59	11.06
360.0	13.11	13.23	13.28	13.28	13.17	12.93	12.76	12.23	11.70
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.18	10.71	10.36	10.18	9.77	9.19	8.78	8.49	8.25
45.0	11.47	11.06	10.59	10.07	10.07	10.07	9.48	8.72	8.13
90.0	12.11	11.41	10.94	10.48	10.12	9.66	9.07	8.43	8.08
135.0	12.23	11.94	11.47	10.94	10.36	9.89	9.42	8.95	8.66
180.0	12.06	11.88	11.65	11.29	10.77	10.36	9.89	9.31	8.95
225.0	12.47	12.23	11.65	11.18	10.65	9.95	9.42	9.01	8.60
270.0	12.35	12.00	11.41	10.89	10.18	9.71	9.19	8.72	8.43
315.0	10.53	9.89	9.42	9.01	8.60	8.37	8.08	7.84	7.67
360.0	11.18	10.71	10.36	10.18	9.77	9.19	8.78	8.49	8.25
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.96	7.78	7.55	7.37	7.20	6.96	6.85	6.73	6.55
45.0	7.84	7.61	7.43	7.20	7.02	6.85	6.73	6.50	6.38
90.0	7.78	7.49	7.32	7.14	6.91	6.73	6.61	6.44	6.26
135.0	8.31	8.08	7.78	7.49	7.37	7.20	7.02	6.85	6.67
180.0	8.66	8.31	8.02	7.78	7.61	7.37	7.26	7.08	6.91
225.0	8.13	7.84	7.55	7.37	7.14	6.96	6.85	6.61	6.50
270.0	8.19	7.90	7.61	7.43	7.26	7.02	6.85	6.73	6.55
315.0	7.43	7.26	7.02	6.85	6.67	6.55	6.38	6.26	6.09
360.0	7.96	7.78	7.55	7.37	7.20	6.96	6.85	6.73	6.55
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	6.44	6.38	6.20	6.09	5.91	5.50	5.21	5.15	5.15
45.0	6.26	6.14	5.91	5.85	5.74	5.44	5.21	5.09	5.03
90.0	6.14	5.97	5.85	5.74	5.56	5.27	5.15	5.03	5.03
135.0	6.50	6.38	6.26	6.03	5.97	5.74	5.50	5.33	5.27
180.0	6.79	6.61	6.50	6.32	6.20	6.03	5.79	5.68	5.62
225.0	6.38	6.26	6.09	5.97	5.79	5.56	5.44	5.33	5.21
270.0	6.38	6.20	6.09	5.91	5.79	5.56	5.38	5.27	5.21
315.0	6.03	5.91	5.79	5.68	5.50	5.27	5.15	5.03	5.03
360.0	6.44	6.38	6.20	6.09	5.91	5.50	5.21	5.15	5.15

Intensity data(cd)

<i>C/γ(°)</i>	90.0
0.0	5.21
45.0	5.09
90.0	4.97
135.0	5.15
180.0	5.50
225.0	5.21
270.0	5.03
315.0	5.03
360.0	5.21