



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: 2-2686-L

Luminaire: 92.70.412.00

Report No: 2024229-B004

Ballast type: AC

Test No: 2024229-C004

Voltage(V): 35.390

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.541

Lamp flux(lm): 2609.0

Power (W): 19.145

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 2215.39, Efficiency(%): 84.91% , Luminous Efficacy(lm/W): 115.72

Central intensity(cd): 12134.520, Maximum intensity(cd): 12269.180

Angle of maximum intensity: C=0.0  $\gamma$ =1.0

Beam Angle(50%Imax): [C0/180]Total=17.6

[C90/270]Total=17.6

Field angle(10%Imax): [C0/180]Total=44.4

[C90/270]Total=44.4

Maximum s/h(1/2): C0\_180=0.30 C90\_270=0.30

Maximum s/h(1/4): C0\_180=0.33 C90\_270=0.33

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 84.91%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.937%

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2024/2/29  
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	12134.523	0.000	0	0.00%	0.00%
1.0	12269.184	11.677	11.677	0.45%	0.53%
2.0	11940.002	34.747	46.424	1.33%	2.10%
3.0	11442.934	55.924	102.348	2.14%	4.62%
4.0	10775.485	74.372	176.72	2.85%	7.98%
5.0	9853.097	88.743	265.464	3.40%	11.98%
6.0	8902.033	98.563	364.027	3.78%	16.43%
7.0	7950.530	104.604	468.63	4.01%	21.15%
8.0	6903.051	106.304	574.935	4.07%	25.95%
9.0	5912.265	103.861	678.796	3.98%	30.64%
10.0	5061.201	99.306	778.102	3.81%	35.12%
11.0	4360.468	94.142	872.243	3.61%	39.37%
12.0	3733.326	88.477	960.72	3.39%	43.37%
13.0	3258.416	82.974	1043.695	3.18%	47.11%
14.0	2911.889	78.979	1122.674	3.03%	50.68%
15.0	2583.585	75.444	1198.118	2.89%	54.08%
16.0	2335.531	72.079	1270.197	2.76%	57.34%
17.0	2099.034	69.058	1339.255	2.65%	60.45%
18.0	1848.345	65.084	1404.339	2.49%	63.39%
19.0	1679.801	61.383	1465.721	2.35%	66.16%
20.0	1507.306	58.333	1524.054	2.24%	68.79%
21.0	1369.653	55.243	1579.298	2.12%	71.29%
22.0	1245.776	52.558	1631.856	2.01%	73.66%
23.0	1161.642	50.514	1682.37	1.94%	75.94%
24.0	1080.918	49.030	1731.4	1.88%	78.15%
25.0	996.119	47.227	1778.628	1.81%	80.29%
26.0	907.289	44.930	1823.558	1.72%	82.31%
27.0	822.885	42.329	1865.887	1.62%	84.22%
28.0	731.546	39.355	1905.242	1.51%	86.00%
29.0	637.690	35.823	1941.065	1.37%	87.62%
30.0	543.564	31.894	1972.959	1.22%	89.06%
31.0	445.437	27.522	2000.481	1.05%	90.30%
32.0	359.869	23.071	2023.552	0.88%	91.34%
33.0	295.414	19.305	2042.857	0.74%	92.21%
34.0	226.884	15.806	2058.663	0.61%	92.93%
35.0	177.243	12.551	2071.214	0.48%	93.49%
36.0	143.117	10.200	2081.414	0.39%	93.95%
37.0	110.256	8.264	2089.678	0.32%	94.33%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	96.804	6.911	2096.589	0.26%	94.64%
39.0	86.774	6.266	2102.855	0.24%	94.92%
40.0	77.872	5.742	2108.598	0.22%	95.18%
41.0	70.403	5.280	2113.878	0.20%	95.42%
42.0	62.897	4.843	2118.721	0.19%	95.64%
43.0	57.059	4.444	2123.164	0.17%	95.84%
44.0	51.924	4.113	2127.277	0.16%	96.02%
45.0	47.411	3.818	2131.095	0.15%	96.20%
46.0	43.204	3.544	2134.639	0.14%	96.36%
47.0	39.942	3.307	2137.946	0.13%	96.50%
48.0	36.986	3.110	2141.055	0.12%	96.64%
49.0	34.360	2.930	2143.985	0.11%	96.78%
50.0	32.180	2.774	2146.76	0.11%	96.90%
51.0	30.293	2.643	2149.403	0.10%	97.02%
52.0	28.676	2.530	2151.933	0.10%	97.14%
53.0	27.330	2.436	2154.369	0.09%	97.25%
54.0	26.043	2.352	2156.722	0.09%	97.35%
55.0	24.996	2.278	2159	0.09%	97.45%
56.0	24.104	2.219	2161.219	0.09%	97.55%
57.0	23.372	2.171	2163.39	0.08%	97.65%
58.0	22.692	2.130	2165.52	0.08%	97.75%
59.0	22.158	2.097	2167.617	0.08%	97.84%
60.0	21.675	2.071	2169.687	0.08%	97.94%
61.0	21.273	2.050	2171.737	0.08%	98.03%
62.0	20.834	2.029	2173.766	0.08%	98.12%
63.0	20.329	2.002	2175.768	0.08%	98.21%
64.0	19.781	1.968	2177.736	0.08%	98.30%
65.0	19.137	1.926	2179.662	0.07%	98.39%
66.0	18.420	1.874	2181.536	0.07%	98.47%
67.0	17.791	1.821	2183.357	0.07%	98.55%
68.0	17.293	1.777	2185.134	0.07%	98.63%
69.0	16.869	1.743	2186.877	0.07%	98.71%
70.0	16.313	1.704	2188.581	0.07%	98.79%
71.0	15.969	1.669	2190.249	0.06%	98.87%
72.0	15.633	1.643	2191.893	0.06%	98.94%
73.0	15.209	1.613	2193.505	0.06%	99.01%
74.0	14.879	1.582	2195.087	0.06%	99.08%
75.0	14.470	1.551	2196.638	0.06%	99.15%

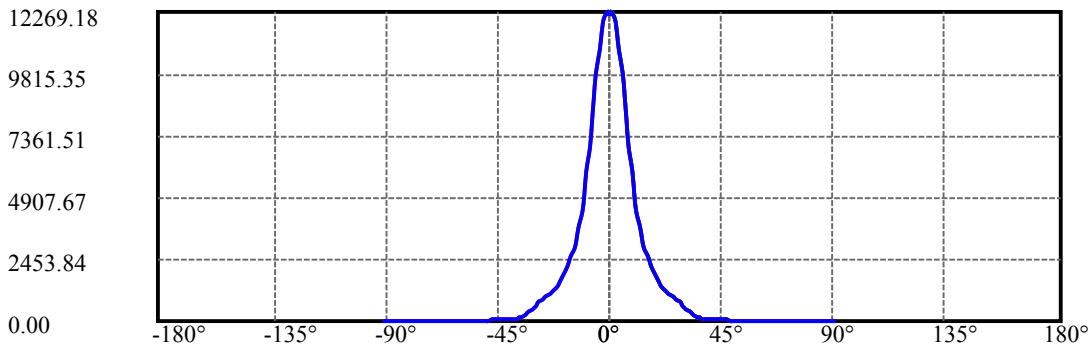
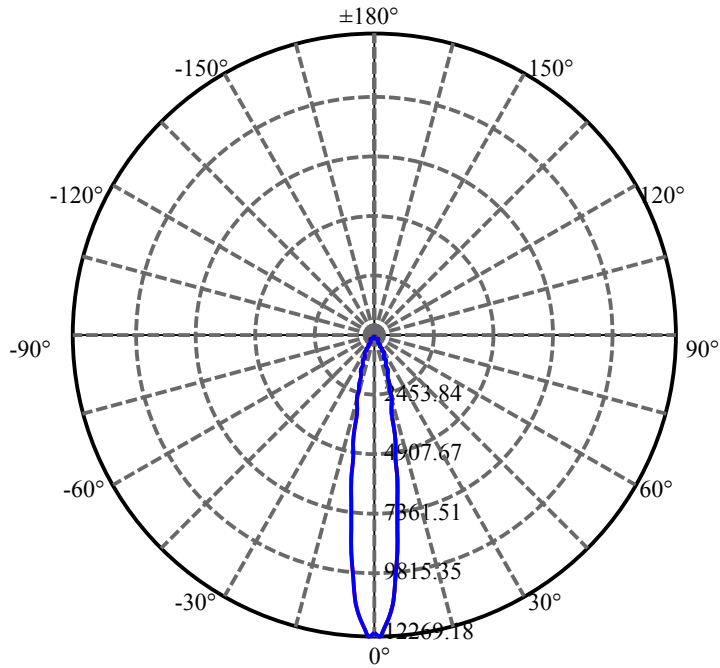
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.111	1.517	2198.155	0.06%	99.22%
77.0	13.680	1.482	2199.637	0.06%	99.29%
78.0	13.263	1.442	2201.079	0.06%	99.35%
79.0	12.831	1.402	2202.481	0.05%	99.42%
80.0	12.304	1.355	2203.836	0.05%	99.48%
81.0	11.807	1.304	2205.14	0.05%	99.54%
82.0	11.427	1.260	2206.4	0.05%	99.59%
83.0	11.039	1.221	2207.621	0.05%	99.65%
84.0	10.702	1.184	2208.806	0.05%	99.70%
85.0	10.417	1.153	2209.958	0.04%	99.76%
86.0	10.168	1.125	2211.084	0.04%	99.81%
87.0	9.956	1.101	2212.185	0.04%	99.86%
88.0	9.751	1.080	2213.264	0.04%	99.90%
89.0	9.664	1.064	2214.329	0.04%	99.95%
90.0	9.612	1.057	2215.385	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1972.96	75.62%	89.06%
0-40	2108.60	80.82%	95.18%
0-60	2169.69	83.16%	97.94%
0-90	2214.33	84.87%	99.95%
0-120	2214.33	84.87%	99.95%
0-180	2215.39	84.91%	100.00%
60-90	44.64	1.71%	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%
0-24.87	1772.31	67.93%	80.00%

ZONAL LUMEN SUMMARY

0-10	778.10
10-20	745.95
20-30	448.90
30-40	135.64
40-50	38.16
50-60	22.93
60-70	18.89
70-80	15.26
80-90	10.49
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



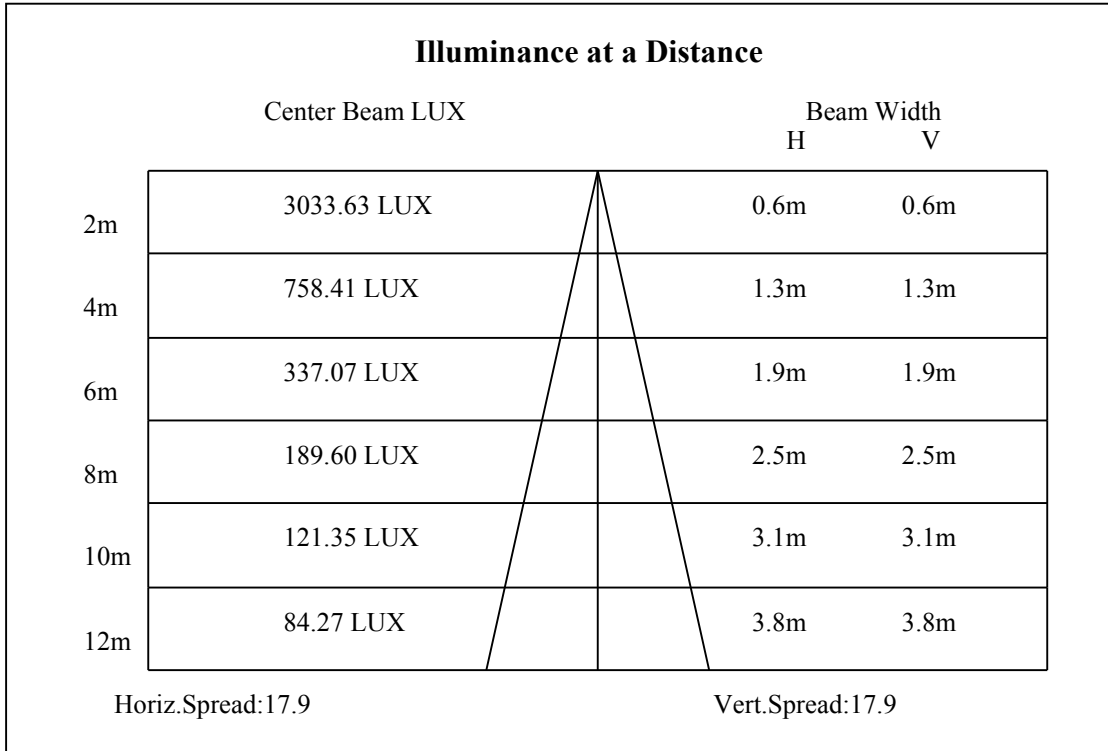
C0(Max): —————

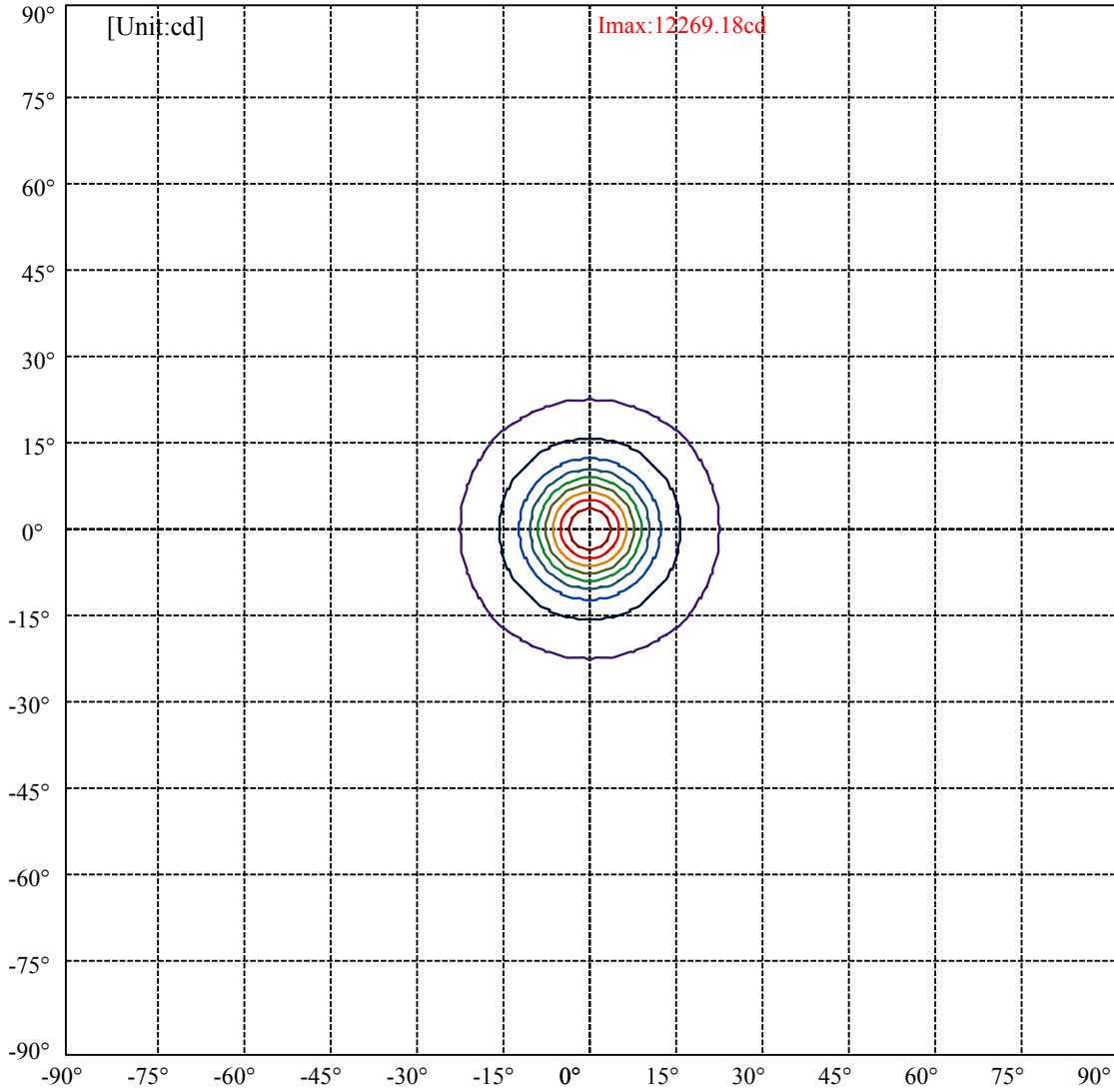
C0/C180: —————

C90/C270: —————

Field angle(10%Imax):C0/180Left:23.2 Right:21.2  
:C90/270Left:23.2 Right:21.2

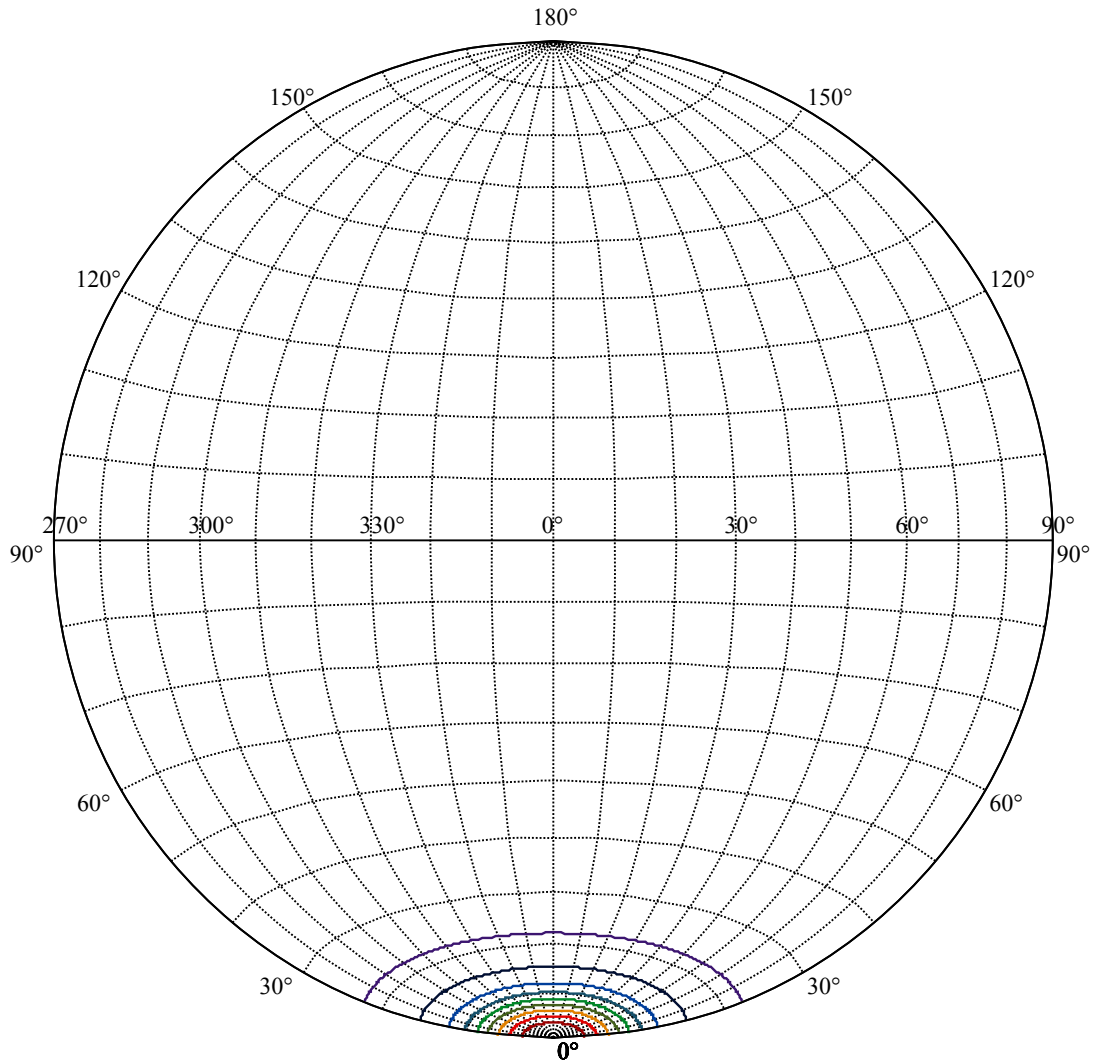
Beam Angle(50%Imax):C0/180Left:9.8 Right:7.8  
:C90/270Left:9.8 Right:7.8





(10%Imax) 1226.92	—
(20%Imax) 2453.84	—
(30%Imax) 3680.76	—
(40%Imax) 4907.67	—
(50%Imax) 6134.59	—
(60%Imax) 7361.51	—
(70%Imax) 8588.43	—
(80%Imax) 9815.35	—
(90%Imax) 11042.3	—





House

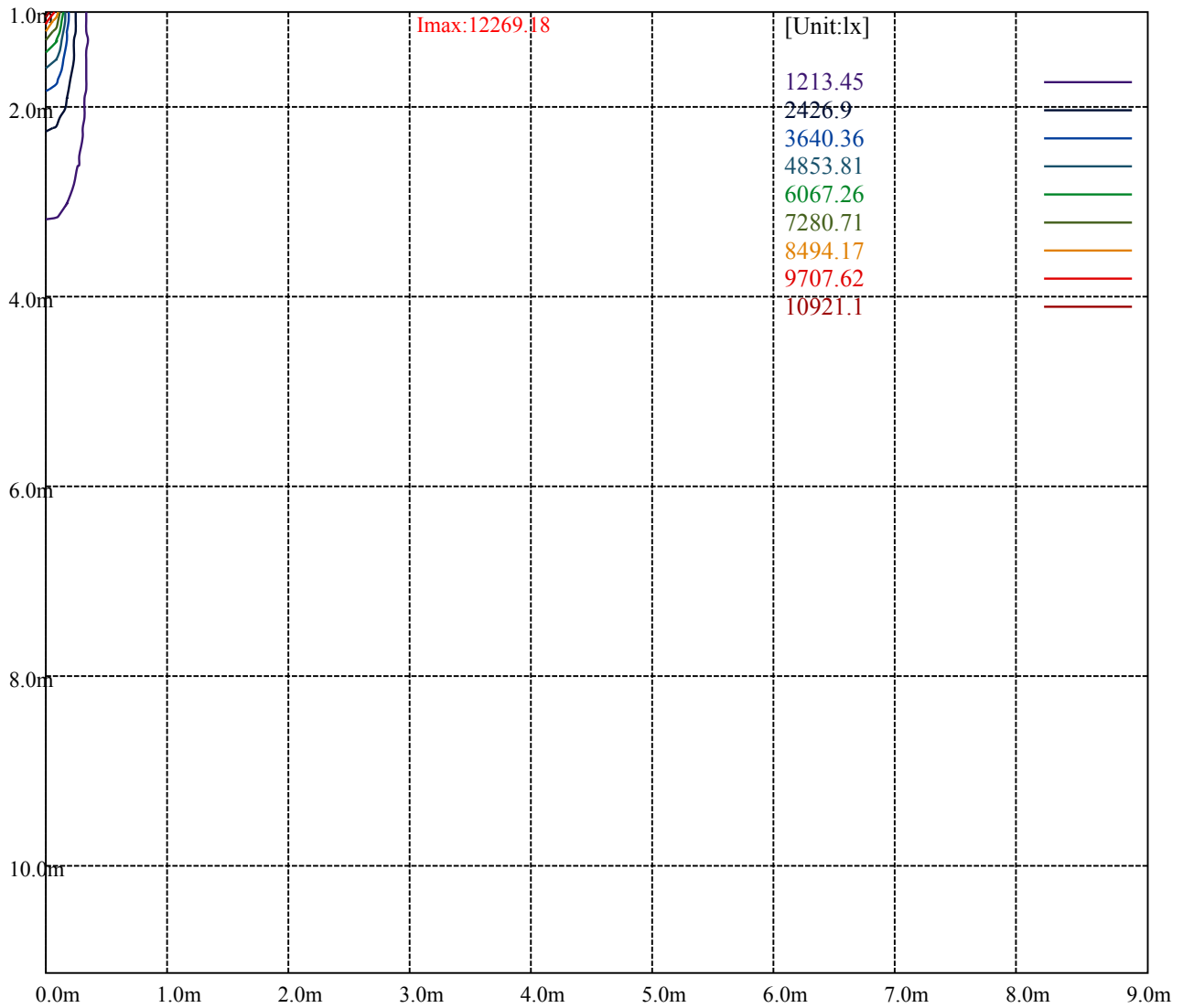
[Unit:cd]

Road

**I<sub>max</sub>:12269.18**

(10%I <sub>max</sub> )	1226.92	—
(20%I <sub>max</sub> )	2453.84	—
(30%I <sub>max</sub> )	3680.76	—
(40%I <sub>max</sub> )	4907.67	—
(50%I <sub>max</sub> )	6134.59	—
(60%I <sub>max</sub> )	7361.51	—
(70%I <sub>max</sub> )	8588.43	—
(80%I <sub>max</sub> )	9815.35	—
(90%I <sub>max</sub> )	11042.3	—





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

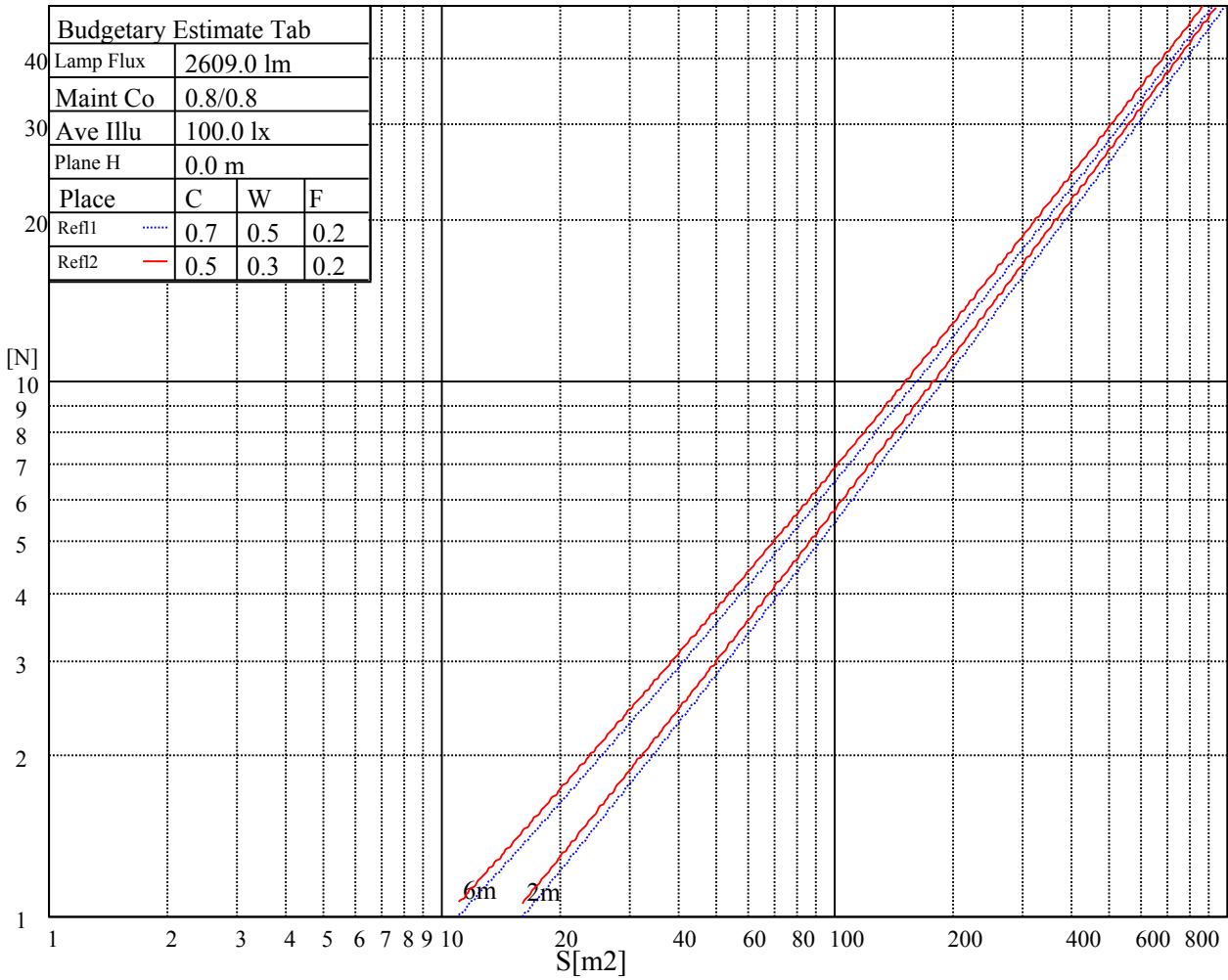
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

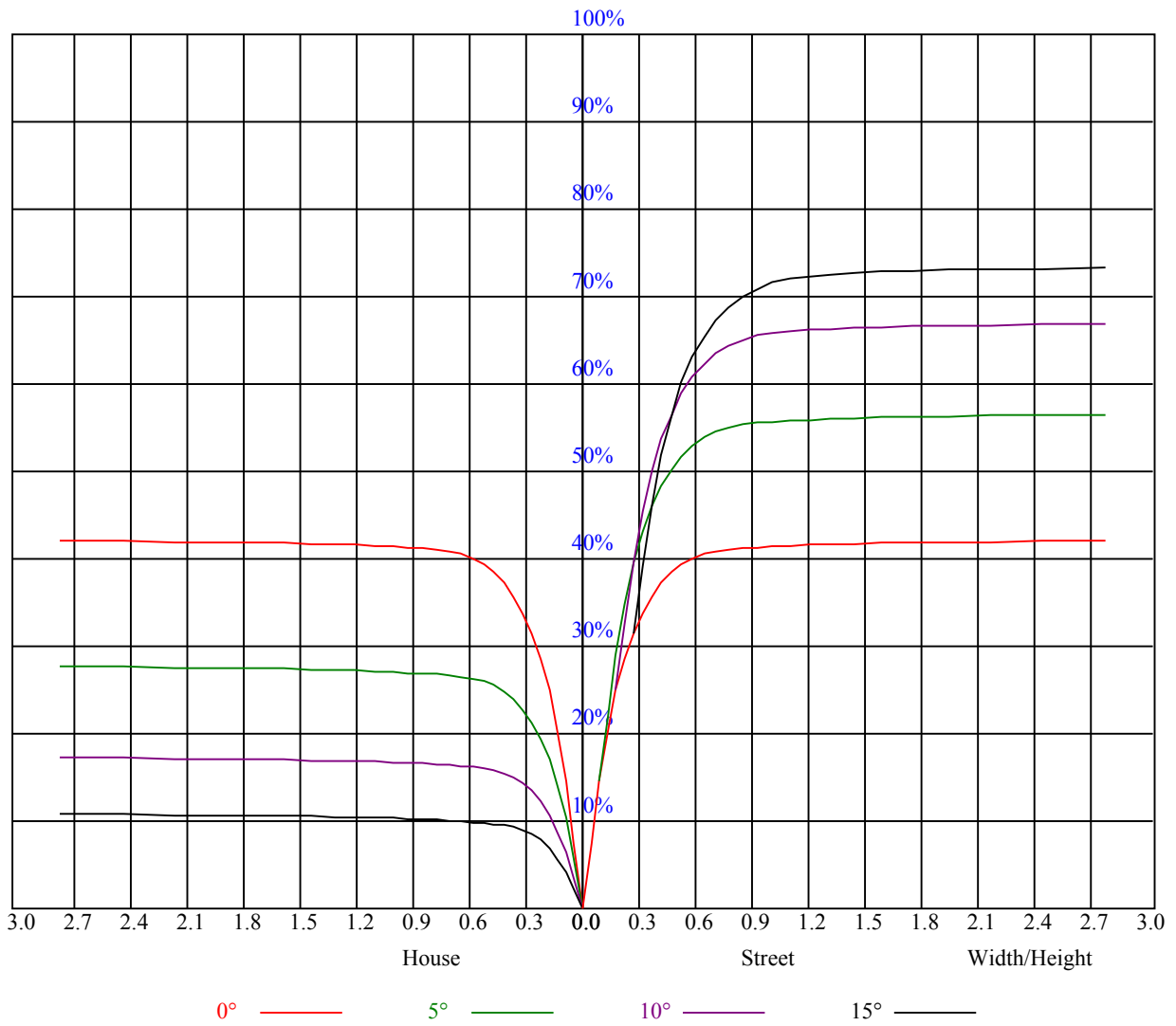


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字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

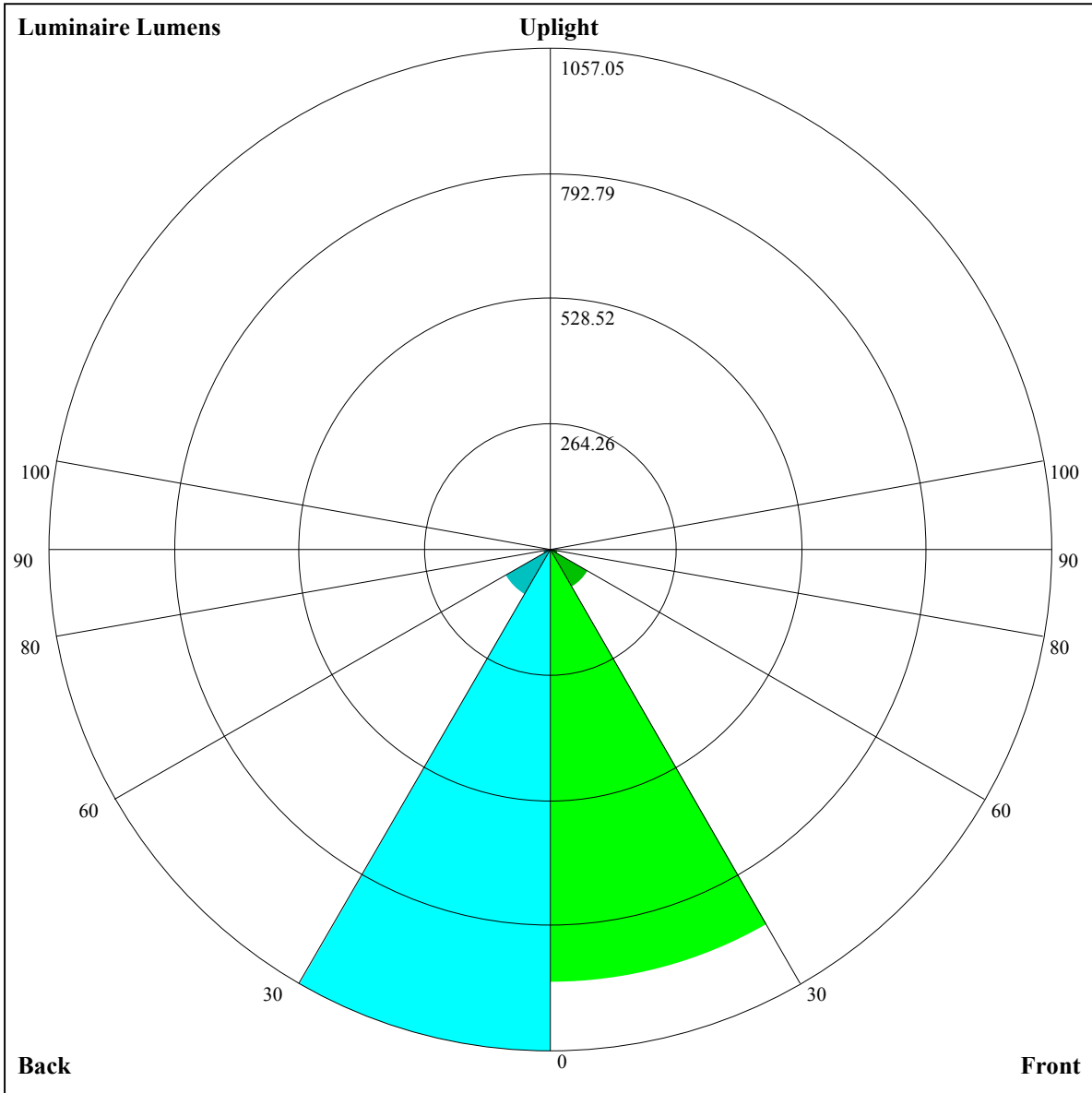
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	0.94	0.94	0.94	0.90	0.90	0.90	0.87	0.87	0.87	0.85
1	0.95	0.93	0.92	0.93	0.92	0.90	0.90	0.89	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81
2	0.90	0.87	0.85	0.89	0.86	0.84	0.86	0.84	0.82	0.83	0.82	0.80	0.81	0.80	0.79	0.77
3	0.86	0.82	0.80	0.85	0.81	0.79	0.82	0.80	0.78	0.80	0.78	0.77	0.79	0.77	0.75	0.74
4	0.82	0.78	0.75	0.81	0.78	0.75	0.79	0.76	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.71
5	0.79	0.75	0.72	0.78	0.74	0.72	0.76	0.73	0.71	0.75	0.72	0.70	0.74	0.72	0.70	0.69
6	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.66
7	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.68	0.65	0.70	0.67	0.65	0.64
8	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.68	0.65	0.63	0.62
9	0.68	0.64	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.66	0.63	0.61	0.60
10	0.66	0.62	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.65	0.62	0.60	0.64	0.61	0.59	0.59







Luminaire Lumens:

FL=912.92,FM=89.79,FH=16.86,FVH=5.7

BL=1057.05,BM=110.37,BH=17.03,BVH=5.85

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	11661.25	11500.90	10789.27	9926.64	8941.13	7683.48	6695.62	5771.55	4756.77
45.0	12580.00	12304.94	11842.61	11017.45	10192.28	8992.57	7980.13	6991.10	6048.89
90.0	11611.51	11611.51	11286.71	10513.04	9595.41	8365.85	7366.87	6397.15	5498.25
135.0	12685.34	12609.26	12310.79	11842.61	10982.33	10133.76	9203.25	8208.37	6961.84
180.0	11661.25	12468.80	12685.34	12638.52	12304.94	11836.76	11011.59	10192.28	9226.66
225.0	12580.00	12644.37	12375.17	11620.87	11620.87	10744.79	9882.17	8896.06	7859.05
270.0	11611.51	12626.81	12591.70	12345.91	11801.65	11175.46	10402.96	9501.71	8243.48
315.0	12685.34	12386.87	11638.43	11638.43	10765.27	9892.12	8673.68	7646.02	6629.49
360.0	11661.25	11500.90	10789.27	9926.64	8941.13	7683.48	6695.62	5771.55	4756.77
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4097.22	3564.08	3043.23	2711.99	2442.20	2164.81	1974.61	1810.74	1633.42
45.0	5007.19	4316.62	3754.80	3292.48	3005.72	3005.72	2295.90	2084.04	1862.83
90.0	4721.07	3934.53	3438.84	3042.06	2717.84	2386.61	2163.05	1930.13	1773.88
135.0	6019.62	5176.90	4445.37	3707.99	3251.51	2964.75	2964.75	2271.32	2021.43
180.0	7933.31	6891.61	5937.69	5112.53	4199.57	3626.05	3181.28	2994.01	2994.01
225.0	6601.40	5674.40	4859.18	4029.92	3514.92	3105.26	2692.68	2422.89	2143.74
270.0	7219.34	6242.01	5364.17	4451.22	3830.88	3345.15	2964.75	2964.75	2347.98
315.0	5698.98	4689.47	4040.45	3518.43	3104.68	2696.78	2431.67	2206.36	2014.99
360.0	4097.22	3564.08	3043.23	2711.99	2442.20	2164.81	1974.61	1810.74	1633.42
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1502.33	1288.72	1155.47	1155.47	1060.95	990.08	912.48	830.55	719.53
45.0	1715.35	1580.17	1418.64	1296.33	1189.82	1088.58	1018.94	920.62	832.25
90.0	1635.76	1472.48	1153.36	1153.36	1111.58	1038.95	967.08	887.67	779.17
135.0	1855.81	1710.09	1574.31	1416.30	1298.09	1190.99	1086.24	1014.25	940.52
180.0	2239.13	2036.06	1868.68	1684.92	1547.39	1391.14	1271.17	1169.92	1069.85
225.0	1955.30	1792.02	1649.22	1518.72	1164.95	1164.95	1144.11	1068.27	983.35
270.0	2077.02	1899.11	1750.47	1566.71	1428.01	1303.94	1194.50	1095.01	1027.71
315.0	1806.06	1659.76	1488.29	1165.42	1165.42	1124.51	1052.82	982.65	905.93
360.0	1502.33	1288.72	1155.47	1155.47	1060.95	990.08	912.48	830.55	719.53
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	626.13	511.60	421.83	336.33	243.98	184.76	143.61	117.05	104.58
45.0	741.54	650.83	541.39	455.95	372.26	311.40	311.40	153.33	123.54
90.0	689.45	601.61	513.36	426.34	321.23	246.79	172.76	133.14	113.59
135.0	858.00	748.56	657.85	567.73	454.78	365.82	304.38	304.38	153.27
180.0	1002.55	930.57	850.39	743.88	650.83	557.78	464.73	354.70	295.01
225.0	906.81	822.53	732.41	619.40	529.04	419.20	336.39	262.47	187.10
270.0	956.32	873.80	763.78	672.48	581.77	470.58	382.80	302.62	302.62
315.0	802.28	712.86	620.51	526.41	409.60	322.63	247.26	187.39	138.23
360.0	626.13	511.60	421.83	336.33	243.98	184.76	143.61	117.05	104.58
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	93.93	84.86	74.44	67.13	60.63	55.13	49.22	45.24	41.79
45.0	105.40	94.57	85.44	75.08	67.71	61.45	54.60	49.80	45.76
90.0	99.37	89.31	80.59	70.75	63.97	58.11	52.85	47.17	43.31
135.0	126.35	108.62	97.62	88.08	79.47	70.58	64.14	58.58	53.49
180.0	295.01	147.83	123.19	109.79	96.50	87.67	77.60	70.40	63.97
225.0	144.84	121.73	106.22	96.04	87.02	78.83	69.82	63.32	57.64
270.0	161.29	130.80	112.42	101.60	92.11	83.39	73.50	66.31	59.99
315.0	118.74	104.35	94.51	85.74	75.55	68.06	61.45	55.65	49.45
360.0	93.93	84.86	74.44	67.13	60.63	55.13	49.22	45.24	41.79

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	38.16	35.70	33.53	31.37	29.79	28.21	27.10	26.04	25.22
45.0	42.31	38.57	35.99	33.71	31.72	29.67	28.32	27.10	25.81
90.0	40.03	37.22	34.12	32.13	29.79	28.32	27.10	25.75	24.81
135.0	48.05	44.30	41.08	37.51	35.00	32.83	30.55	28.97	27.62
180.0	58.41	52.26	47.93	44.30	41.08	37.63	35.29	33.18	31.37
225.0	52.61	47.29	43.60	40.38	36.93	34.59	32.07	30.26	28.68
270.0	54.43	48.57	44.59	41.08	37.40	34.94	32.77	30.37	28.73
315.0	45.30	41.73	38.68	35.41	33.18	31.25	29.14	27.74	26.39
360.0	38.16	35.70	33.53	31.37	29.79	28.21	27.10	26.04	25.22
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	24.23	23.58	23.00	22.47	21.95	21.65	21.30	20.78	20.25
45.0	25.05	24.11	23.41	22.88	22.36	21.89	21.48	21.19	20.78
90.0	24.05	23.23	22.65	22.12	21.71	21.48	21.01	20.66	20.25
135.0	26.28	25.34	24.52	23.76	22.94	22.36	21.89	21.54	21.01
180.0	29.38	27.97	26.51	25.46	24.64	23.64	23.00	22.41	21.95
225.0	27.33	25.81	24.81	23.94	23.12	22.41	21.89	21.42	21.01
270.0	26.98	25.81	24.76	23.88	22.94	22.36	21.83	21.42	21.01
315.0	25.05	24.11	23.17	22.47	21.89	21.48	21.01	20.78	20.42
360.0	24.23	23.58	23.00	22.47	21.95	21.65	21.30	20.78	20.25
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.55	18.73	17.97	17.26	16.56	16.39	16.09	15.74	15.57
45.0	20.13	19.55	18.96	18.26	18.43	19.31	20.07	19.49	19.37
90.0	19.55	18.90	18.20	17.26	16.62	15.86	15.39	14.98	14.63
135.0	20.60	20.01	19.20	18.55	17.62	16.85	16.27	15.57	15.04
180.0	21.54	21.07	20.60	20.01	19.25	18.61	17.79	17.09	16.91
225.0	20.60	20.19	19.55	18.84	17.91	17.26	16.62	16.15	16.04
270.0	20.66	20.37	19.84	19.08	18.49	17.56	16.80	16.21	15.45
315.0	20.01	19.43	18.79	18.08	17.44	16.50	15.92	15.27	14.75
360.0	19.55	18.73	17.97	17.26	16.56	16.39	16.09	15.74	15.57
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.27	14.92	14.86	14.34	14.10	13.64	13.11	12.35	11.53
45.0	18.79	17.85	17.56	16.85	16.21	15.45	14.92	14.40	13.28
90.0	14.34	14.05	13.69	13.40	13.05	12.64	12.29	12.00	11.59
135.0	14.69	14.34	14.10	13.87	13.52	13.17	12.70	12.29	11.94
180.0	17.09	17.03	16.56	16.15	15.86	15.45	14.98	14.63	14.10
225.0	15.51	14.98	14.46	13.93	13.58	13.23	12.87	12.47	12.11
270.0	14.98	14.57	14.16	13.81	13.46	13.11	12.82	12.47	12.17
315.0	14.40	13.93	13.64	13.40	13.11	12.76	12.41	12.06	11.70
360.0	15.27	14.92	14.86	14.34	14.10	13.64	13.11	12.35	11.53
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.06	10.83	10.59	10.36	10.01	9.83	9.60	9.66	9.60
45.0	11.82	11.06	10.77	10.53	10.24	9.89	9.83	9.54	9.60
90.0	11.29	10.94	10.59	10.36	10.01	9.83	9.71	9.48	9.60
135.0	11.53	11.35	10.94	10.65	10.42	10.12	9.95	9.77	9.60
180.0	13.64	13.05	12.17	11.41	11.06	10.71	10.42	10.07	9.89
225.0	11.82	11.53	11.18	10.89	10.59	10.36	10.07	9.89	9.71
270.0	11.88	11.53	11.29	10.89	10.65	10.42	10.12	9.89	9.77
315.0	11.41	11.12	10.77	10.53	10.36	10.18	9.95	9.71	9.54
360.0	11.06	10.83	10.59	10.36	10.01	9.83	9.60	9.66	9.60

Intensity data(cd)

C/γ(°)	90.0
0.0	9.60
45.0	9.60
90.0	9.54
135.0	9.66
180.0	9.77
225.0	9.54
270.0	9.60
315.0	9.60
360.0	9.60