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NT

Client:

LumCAT: 2-2689-L

Luminaire: 92.70.412.00

Report No: 2024229-B010

Ballast type: AC

Test No: 2024229-C010

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): 2171.04, Efficiency(%): 83.21% , Luminous Efficacy(lm/W): 113.40

Central intensity(cd): 4101.169, Maximum intensity(cd): 4101.169

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

Beam Angle(50%Imax): [C0/180]Total=43.0

[C90/270]Total=43.0

Field angle(10%Imax): [C0/180]Total=65.4

[C90/270]Total=65.4

Maximum s/h(1/2): C0\_180=0.69 C90\_270=0.69

Maximum s/h(1/4): C0\_180=0.68 C90\_270=0.68

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 83.21%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.759%

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	4101.169	0.000	0	0.00%	0.00%
1.0	4097.219	3.923	3.923	0.15%	0.18%
2.0	4084.124	11.743	15.665	0.45%	0.72%
3.0	4060.715	19.480	35.145	0.75%	1.62%
4.0	4021.359	27.053	62.198	1.04%	2.86%
5.0	3977.101	34.409	96.607	1.32%	4.45%
6.0	3918.652	41.494	138.102	1.59%	6.36%
7.0	3851.644	48.230	186.332	1.85%	8.58%
8.0	3774.906	54.582	240.914	2.09%	11.10%
9.0	3685.806	60.465	301.379	2.32%	13.88%
10.0	3586.903	65.815	367.194	2.52%	16.91%
11.0	3480.831	70.621	437.815	2.71%	20.17%
12.0	3366.346	74.849	512.665	2.87%	23.61%
13.0	3243.522	78.442	591.107	3.01%	27.23%
14.0	3108.188	81.301	672.408	3.12%	30.97%
15.0	2985.364	83.655	756.063	3.21%	34.82%
16.0	2840.741	85.369	841.432	3.27%	38.76%
17.0	2708.480	86.416	927.848	3.31%	42.74%
18.0	2564.953	86.947	1014.796	3.33%	46.74%
19.0	2426.548	86.842	1101.638	3.33%	50.74%
20.0	2278.705	86.119	1187.757	3.30%	54.71%
21.0	2124.718	84.555	1272.312	3.24%	58.60%
22.0	1977.314	82.432	1354.744	3.16%	62.40%
23.0	1814.183	79.556	1434.3	3.05%	66.07%
24.0	1662.617	76.015	1510.315	2.91%	69.57%
25.0	1494.094	71.777	1582.092	2.75%	72.87%
26.0	1358.512	67.336	1649.428	2.58%	75.97%
27.0	1195.878	62.494	1711.921	2.40%	78.85%
28.0	1059.426	57.100	1769.021	2.19%	81.48%
29.0	917.947	51.734	1820.755	1.98%	83.87%
30.0	757.647	45.241	1865.995	1.73%	85.95%
31.0	613.418	38.155	1904.15	1.46%	87.71%
32.0	482.064	31.384	1935.534	1.20%	89.15%
33.0	377.441	25.321	1960.856	0.97%	90.32%
34.0	293.227	20.296	1981.152	0.78%	91.25%
35.0	225.136	16.098	1997.251	0.62%	92.00%
36.0	183.973	13.026	2010.277	0.50%	92.60%
37.0	141.932	10.629	2020.906	0.41%	93.08%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	112.356	8.488	2029.394	0.33%	93.48%
39.0	100.030	7.249	2036.643	0.28%	93.81%
40.0	90.915	6.659	2043.302	0.26%	94.12%
41.0	83.124	6.197	2049.5	0.24%	94.40%
42.0	76.774	5.809	2055.309	0.22%	94.67%
43.0	71.222	5.482	2060.791	0.21%	94.92%
44.0	66.116	5.184	2065.975	0.20%	95.16%
45.0	61.522	4.905	2070.88	0.19%	95.39%
46.0	57.667	4.661	2075.541	0.18%	95.60%
47.0	53.746	4.431	2079.972	0.17%	95.81%
48.0	50.644	4.220	2084.192	0.16%	96.00%
49.0	47.411	4.027	2088.219	0.15%	96.19%
50.0	44.755	3.843	2092.062	0.15%	96.36%
51.0	42.085	3.674	2095.736	0.14%	96.53%
52.0	39.708	3.510	2099.246	0.13%	96.69%
53.0	37.381	3.353	2102.599	0.13%	96.85%
54.0	35.362	3.206	2105.805	0.12%	97.00%
55.0	33.358	3.068	2108.873	0.12%	97.14%
56.0	31.536	2.932	2111.805	0.11%	97.27%
57.0	29.942	2.811	2114.616	0.11%	97.40%
58.0	28.376	2.697	2117.313	0.10%	97.53%
59.0	27.001	2.589	2119.902	0.10%	97.64%
60.0	25.669	2.488	2122.39	0.10%	97.76%
61.0	24.345	2.387	2124.777	0.09%	97.87%
62.0	23.116	2.287	2127.064	0.09%	97.97%
63.0	21.873	2.188	2129.252	0.08%	98.08%
64.0	20.658	2.087	2131.339	0.08%	98.17%
65.0	19.583	1.992	2133.33	0.08%	98.26%
66.0	18.735	1.912	2135.242	0.07%	98.35%
67.0	18.157	1.855	2137.097	0.07%	98.44%
68.0	17.637	1.813	2138.91	0.07%	98.52%
69.0	17.447	1.790	2140.7	0.07%	98.60%
70.0	17.250	1.782	2142.482	0.07%	98.68%
71.0	17.111	1.776	2144.258	0.07%	98.77%
72.0	16.745	1.760	2146.019	0.07%	98.85%
73.0	16.423	1.734	2147.753	0.07%	98.93%
74.0	16.160	1.713	2149.466	0.07%	99.01%
75.0	15.640	1.680	2151.146	0.06%	99.08%

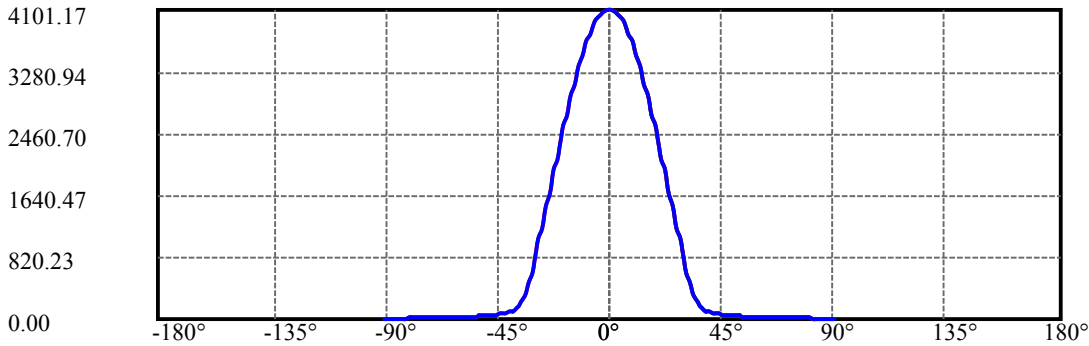
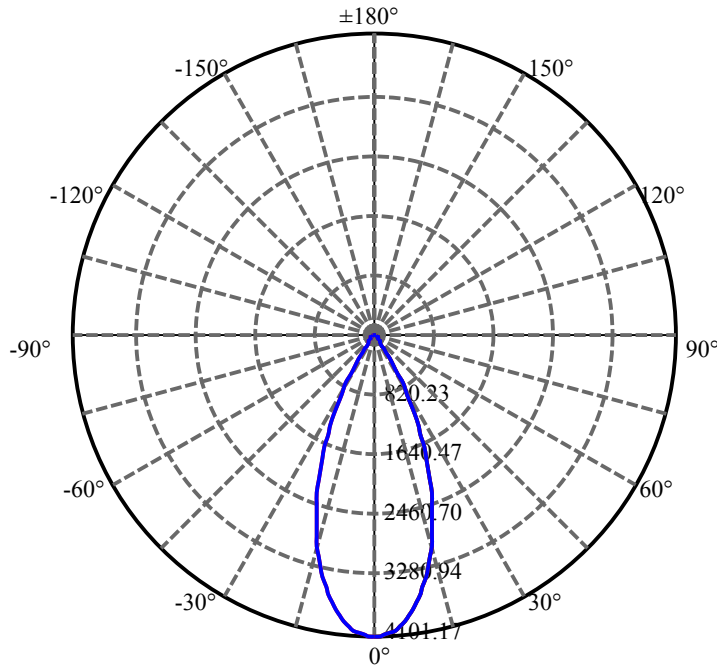
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.150	1.634	2152.781	0.06%	99.16%
77.0	14.587	1.585	2154.366	0.06%	99.23%
78.0	13.928	1.526	2155.892	0.06%	99.30%
79.0	13.190	1.457	2157.349	0.06%	99.37%
80.0	12.794	1.401	2158.75	0.05%	99.43%
81.0	12.604	1.374	2160.124	0.05%	99.50%
82.0	12.473	1.360	2161.484	0.05%	99.56%
83.0	12.246	1.344	2162.827	0.05%	99.62%
84.0	11.902	1.316	2164.143	0.05%	99.68%
85.0	11.456	1.275	2165.418	0.05%	99.74%
86.0	10.849	1.219	2166.637	0.05%	99.80%
87.0	10.285	1.157	2167.794	0.04%	99.85%
88.0	9.912	1.106	2168.9	0.04%	99.90%
89.0	9.737	1.077	2169.977	0.04%	99.95%
90.0	9.634	1.062	2171.039	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1866.00	71.52%	85.95%
0-40	2043.30	78.32%	94.12%
0-60	2122.39	81.35%	97.76%
0-90	2169.98	83.17%	99.95%
0-120	2169.98	83.17%	99.95%
0-180	2171.04	83.21%	100.00%
60-90	47.59	1.82%	2.19%
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%
0-27.44	1736.83	66.57%	80.00%

ZONAL LUMEN SUMMARY

0-10	367.19
10-20	820.56
20-30	678.24
30-40	177.31
40-50	48.76
50-60	30.33
60-70	20.09
70-80	16.27
80-90	11.23
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: —————

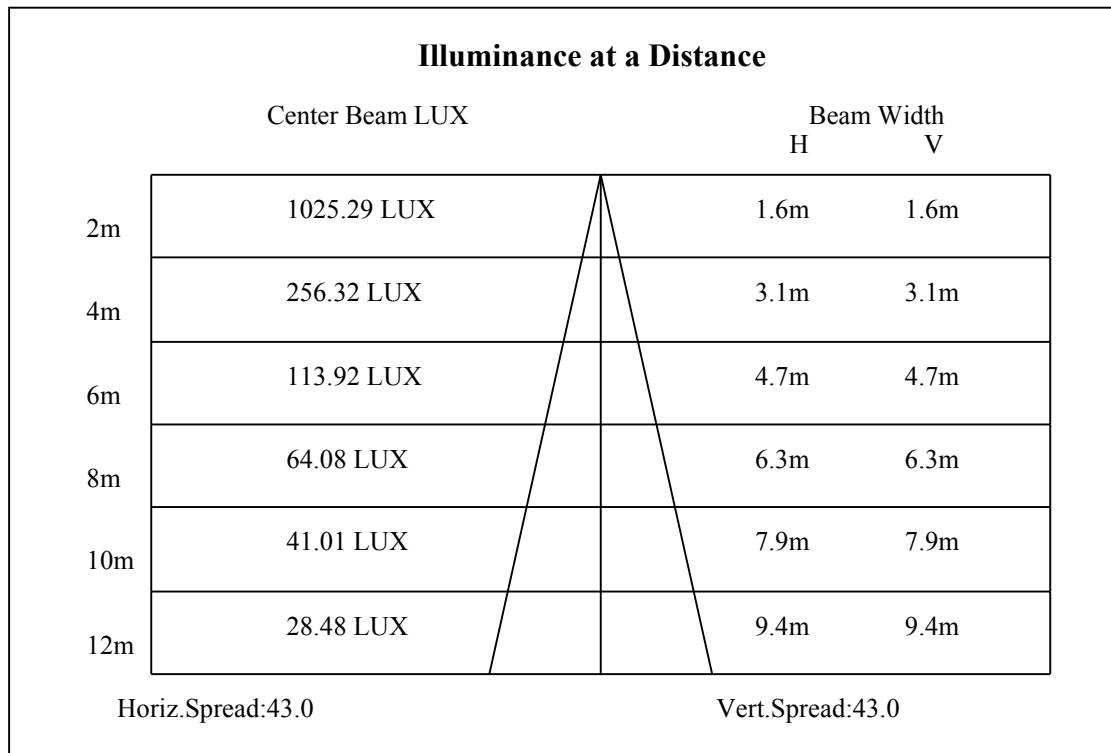
C90/C270: —————

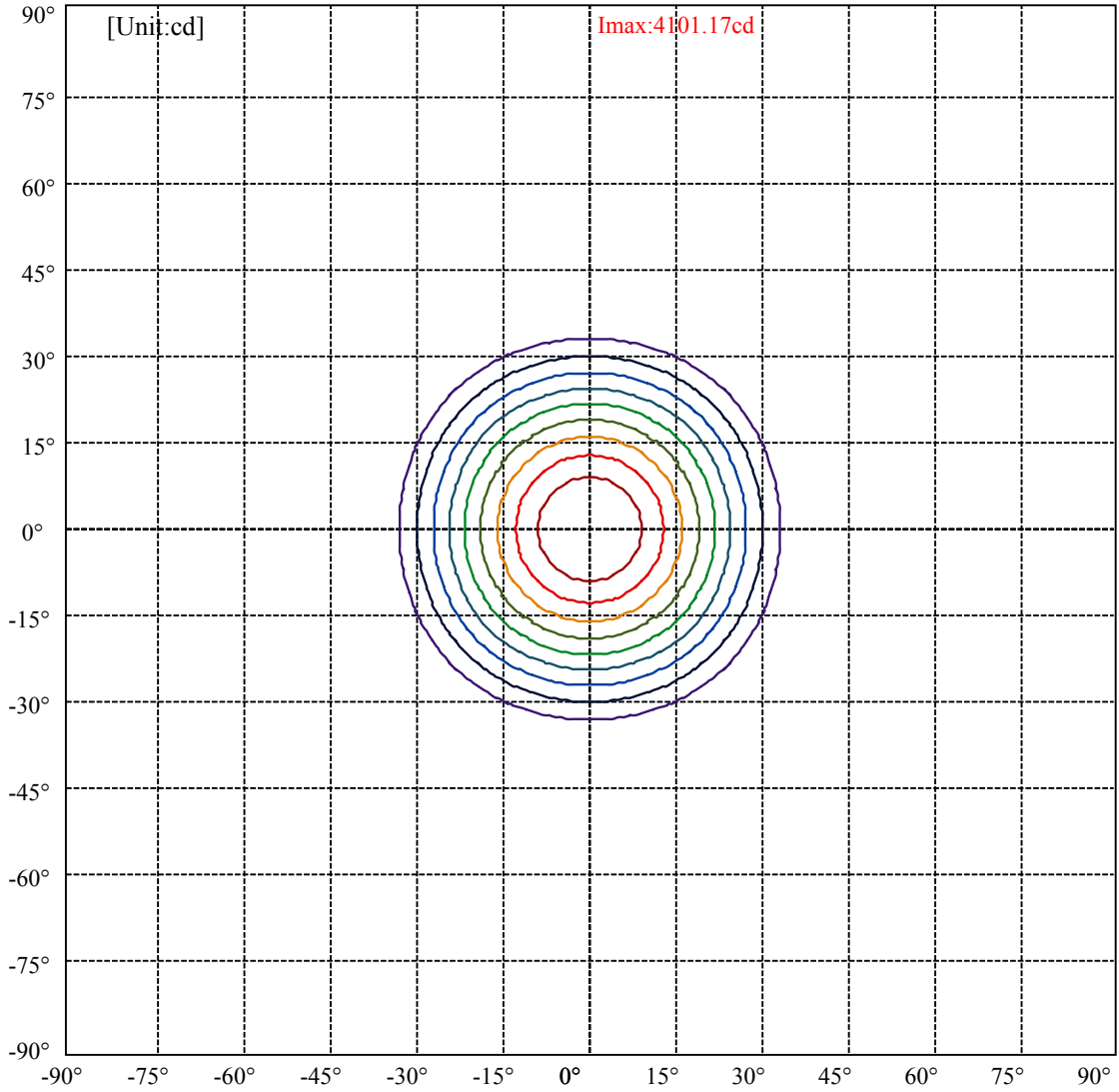
Field angle(10%Imax):C0/180Left:32.7 Right:32.7

:C90/270Left:32.7 Right:32.7

Beam Angle(50%Imax):C0/180Left:21.5 Right:21.5

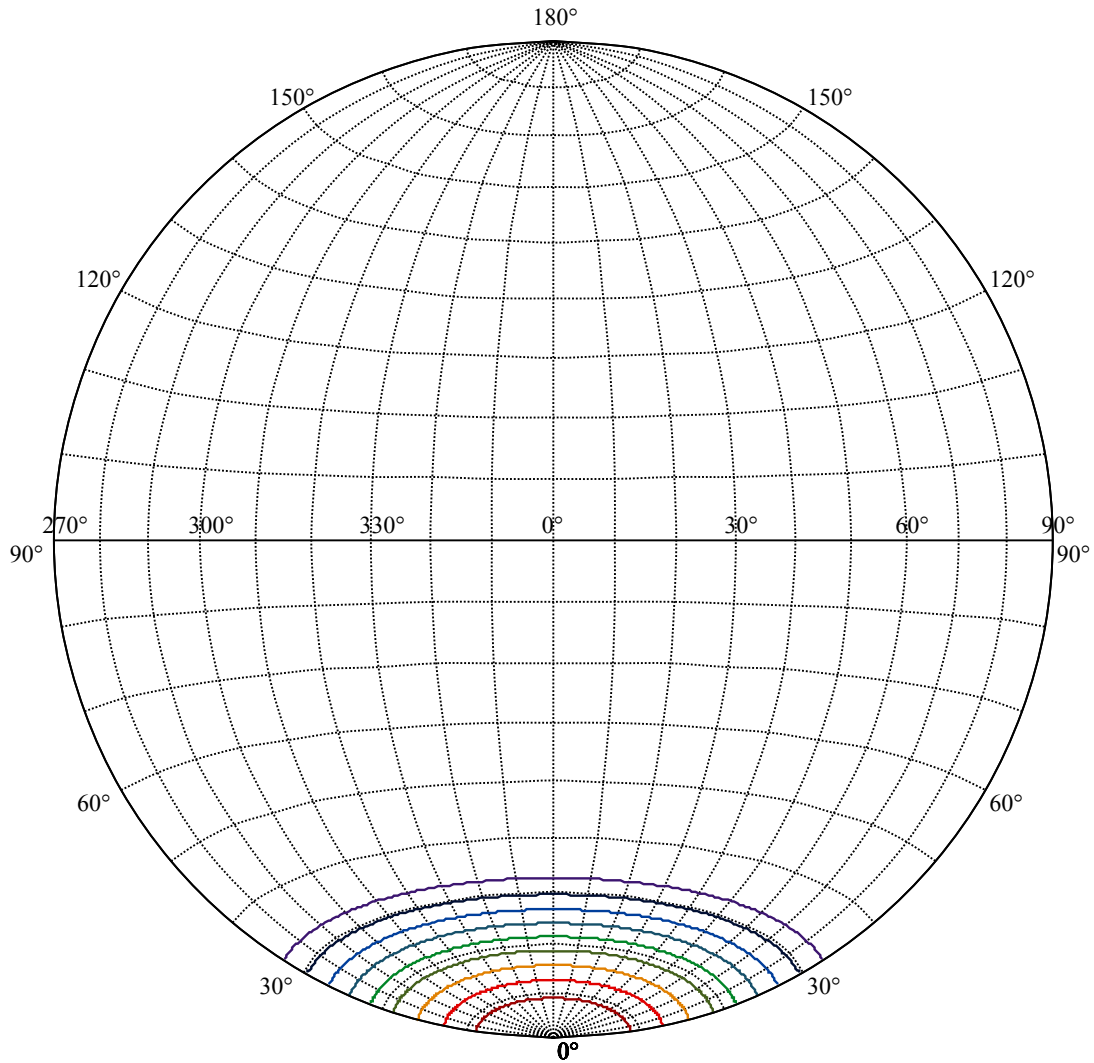
:C90/270Left:21.5 Right:21.5





(10%Imax) 410.117	—
(20%Imax) 820.234	—
(30%Imax) 1230.35	—
(40%Imax) 1640.47	—
(50%Imax) 2050.58	—
(60%Imax) 2460.7	—
(70%Imax) 2870.82	—
(80%Imax) 3280.94	—
(90%Imax) 3691.05	—





House

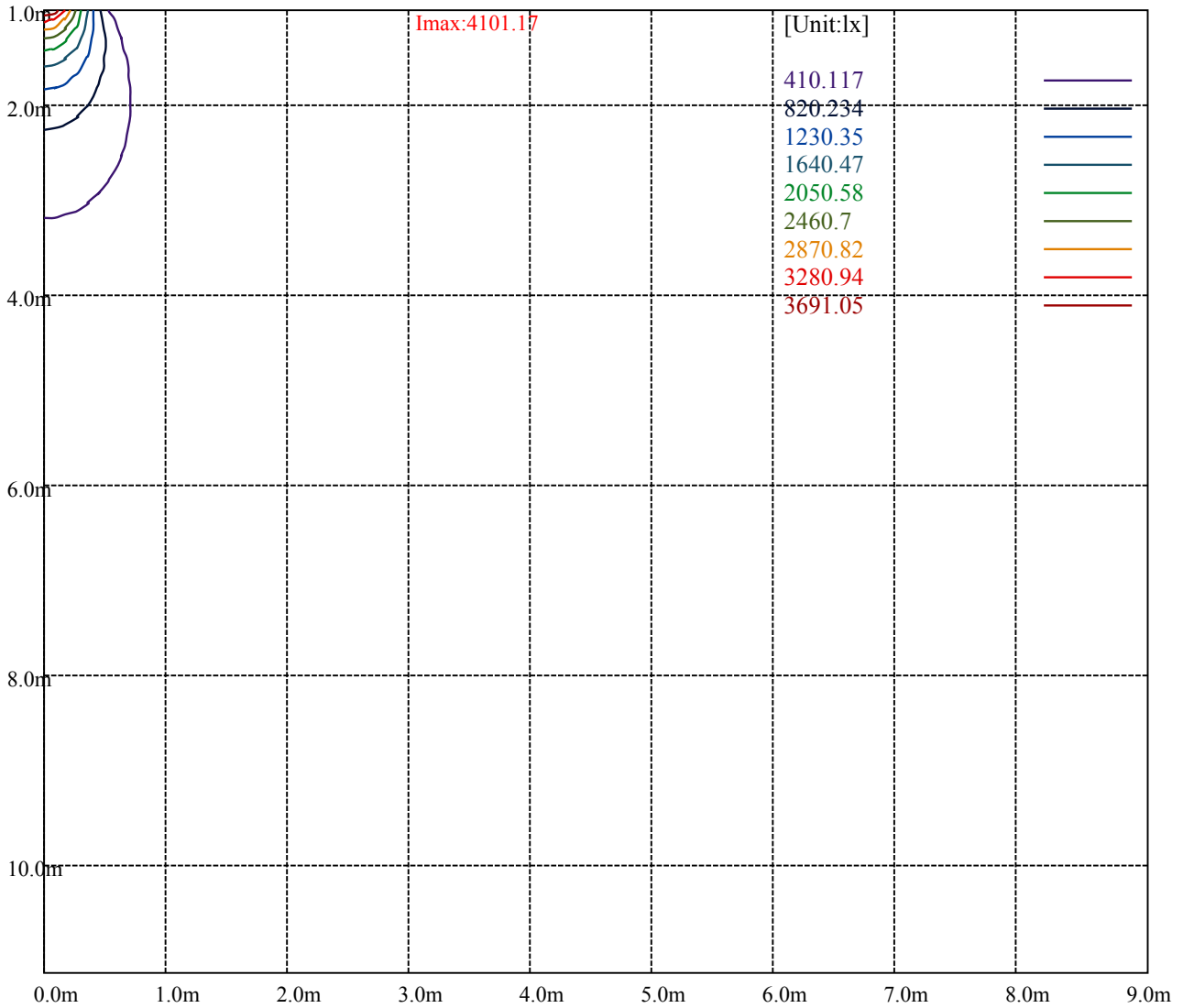
[Unit:cd]

Road

**Imax:4101.17**

(10%Imax)	410.117	—
(20%Imax)	820.234	—
(30%Imax)	1230.35	—
(40%Imax)	1640.47	—
(50%Imax)	2050.58	—
(60%Imax)	2460.7	—
(70%Imax)	2870.82	—
(80%Imax)	3280.94	—
(90%Imax)	3691.05	—





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

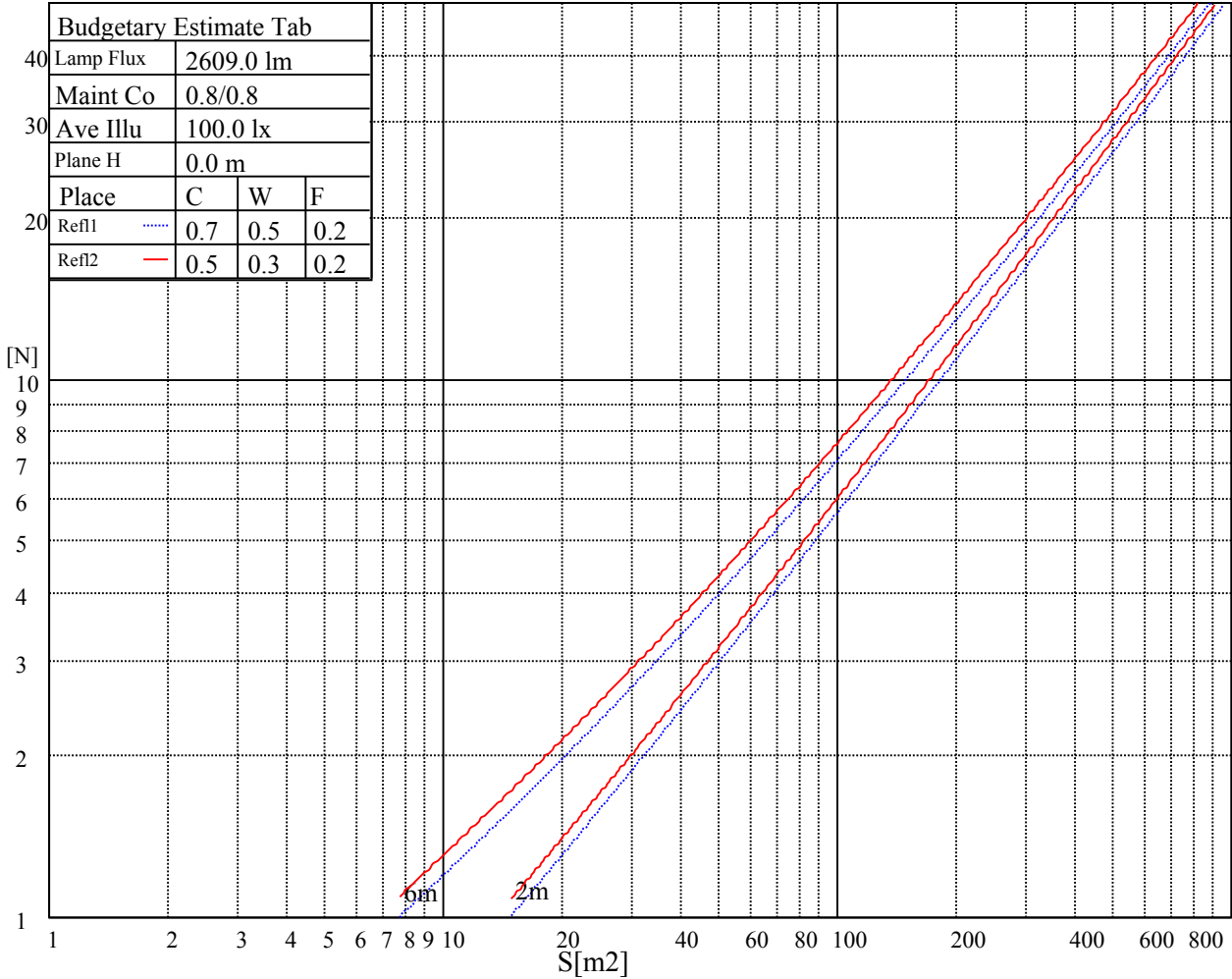
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

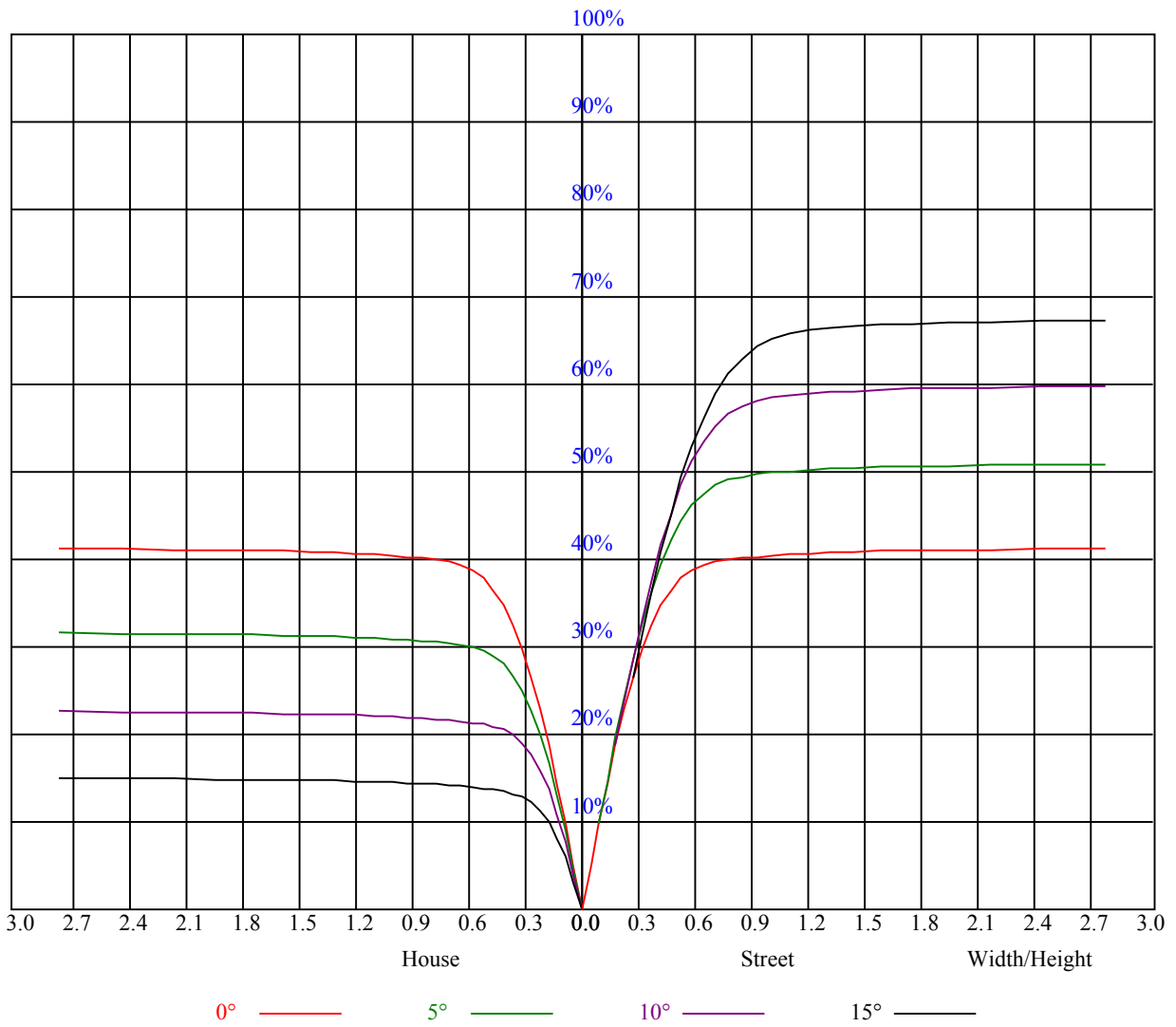


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	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

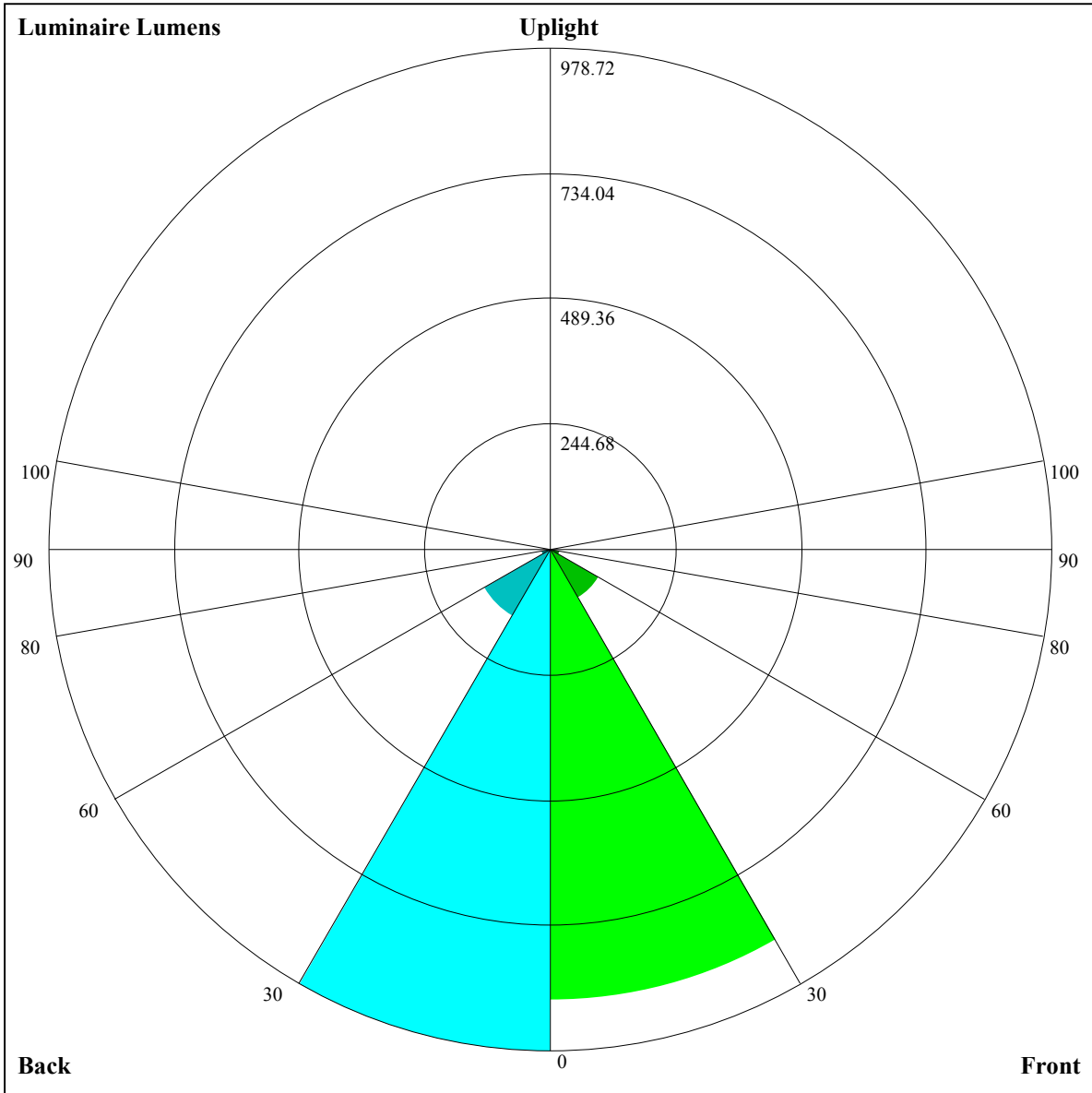
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	0.99	0.99	0.99	0.97	0.97	0.97	0.92	0.92	0.92	0.89	0.89	0.89	0.85	0.85	0.85	0.83
1	0.92	0.90	0.89	0.91	0.89	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.78
2	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.80	0.78	0.80	0.78	0.77	0.78	0.76	0.75	0.74
3	0.82	0.78	0.75	0.81	0.77	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.75	0.73	0.71	0.70
4	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.73	0.70	0.68	0.71	0.69	0.67	0.66
5	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.68	0.66	0.64	0.62
6	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.59
7	0.66	0.62	0.59	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.57
8	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.55	0.61	0.58	0.55	0.60	0.57	0.55	0.54
9	0.60	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.53	0.59	0.55	0.53	0.58	0.55	0.53	0.52
10	0.58	0.54	0.51	0.57	0.53	0.51	0.57	0.53	0.51	0.56	0.53	0.50	0.56	0.53	0.50	0.49







Luminaire Lumens:

FL=880.21,FM=110.01,FH=18.33,FVH=6.03

BL=978.72,BM=148.89,BH=17.69,BVH=6.26

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	4082.59	4057.42	4018.80	3971.40	3891.80	3824.50	3727.36	3639.57	3542.43
45.0	4103.07	4096.05	4079.08	4051.57	4000.07	3947.40	3887.71	3795.83	3712.73
90.0	4107.75	4096.63	4073.22	4037.53	3991.29	3938.62	3861.37	3786.46	3700.44
135.0	4111.26	4114.78	4110.09	4094.29	4070.30	4034.01	3990.71	3924.58	3859.62
180.0	4082.59	4101.90	4109.51	4110.68	4103.07	4086.10	4059.18	4022.31	3977.25
225.0	4103.07	4104.83	4102.49	4085.51	4062.11	4020.55	3977.83	3925.75	3850.25
270.0	4107.75	4108.34	4104.83	4091.37	4061.52	4026.41	3983.69	3933.94	3856.11
315.0	4111.26	4097.80	4074.98	4043.38	3990.71	3939.21	3861.37	3784.71	3700.44
360.0	4082.59	4057.42	4018.80	3971.40	3891.80	3824.50	3727.36	3639.57	3542.43
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3410.16	3297.80	3178.42	3056.10	2903.36	2775.20	2645.28	2480.24	2346.81
45.0	3599.19	3492.68	3386.76	3242.21	3121.65	2995.83	2867.66	2707.89	2574.46
90.0	3605.63	3472.78	3359.84	3239.86	3084.19	2959.54	2833.13	2673.37	2549.88
135.0	3789.98	3704.53	3590.41	3486.83	3373.88	3224.65	3100.00	2940.81	2813.82
180.0	3909.95	3846.74	3760.71	3678.20	3582.81	3447.62	3338.18	3224.65	3066.05
225.0	3776.52	3696.92	3583.39	3479.22	3364.52	3215.28	3091.80	2965.98	2840.16
270.0	3784.71	3701.02	3611.48	3485.66	3372.71	3253.91	3133.35	2985.88	2858.30
315.0	3610.31	3482.73	3375.64	3262.69	3145.06	2993.48	2873.51	2747.10	2618.36
360.0	3410.16	3297.80	3178.42	3056.10	2903.36	2775.20	2645.28	2480.24	2346.81
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2209.28	2067.66	1890.92	1749.30	1619.96	1347.25	1158.28	1158.28	961.99
45.0	2445.71	2309.36	2138.47	1993.33	1855.81	1689.60	1559.68	1422.74	1234.88
90.0	2421.72	2253.17	2109.21	1965.24	1787.92	1650.39	1518.13	1160.74	1160.74
135.0	2684.49	2555.15	2388.95	2250.25	2111.55	1969.93	1794.94	1658.00	1525.15
180.0	2937.89	2810.31	2685.66	2521.21	2376.66	2243.23	2102.77	1916.09	1784.99
225.0	2677.46	2543.45	2411.19	2272.49	2098.68	1955.88	1816.01	1652.15	1526.33
270.0	2689.17	2554.57	2425.82	2242.64	2103.94	1964.66	1787.92	1651.56	1526.33
315.0	2453.91	2318.72	2179.44	2003.28	1864.00	1692.53	1563.19	1333.20	1147.68
360.0	2209.28	2067.66	1890.92	1749.30	1619.96	1347.25	1158.28	1158.28	961.99
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	768.46	659.84	525.18	377.94	281.20	206.29	157.78	127.23	113.36
45.0	1080.97	926.47	742.12	606.35	479.94	366.99	317.25	317.25	145.37
90.0	1045.09	895.45	751.19	580.72	457.47	322.52	238.89	177.85	137.88
135.0	1385.87	1202.11	1050.54	859.17	711.69	572.99	417.32	313.15	313.15
180.0	1651.56	1490.04	1349.59	1159.97	1001.96	841.03	688.28	517.40	397.43
225.0	1130.19	1130.19	1053.87	902.01	716.84	579.84	454.95	346.86	237.60
270.0	1395.23	1214.99	1067.51	917.69	770.21	595.82	469.41	357.63	309.06
315.0	1109.65	956.32	803.57	657.32	488.02	371.03	275.64	188.44	147.24
360.0	768.46	659.84	525.18	377.94	281.20	206.29	157.78	127.23	113.36
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	100.48	92.52	85.56	78.01	72.63	67.77	62.50	58.82	55.30
45.0	125.06	109.03	99.66	92.11	83.80	78.19	73.15	67.42	63.38
90.0	120.97	108.56	99.14	89.89	83.75	78.13	73.09	67.18	63.09
135.0	214.84	133.55	117.05	104.81	95.51	86.61	80.47	75.03	68.88
180.0	297.94	297.94	156.61	132.44	116.34	104.23	93.17	85.97	79.65
225.0	178.55	144.20	124.18	106.98	97.21	87.49	81.00	75.08	68.59
270.0	309.06	141.86	118.80	106.04	96.50	86.91	80.41	74.62	69.47
315.0	124.89	107.80	97.85	89.95	81.58	75.67	70.40	65.66	60.57
360.0	100.48	92.52	85.56	78.01	72.63	67.77	62.50	58.82	55.30

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	52.09	49.10	45.82	43.42	41.14	38.51	36.58	34.76	32.66
45.0	58.87	55.42	52.32	49.39	46.00	43.60	41.26	39.15	36.75
90.0	59.40	55.13	51.91	48.92	45.47	43.01	40.67	37.98	35.99
135.0	64.49	60.45	56.06	52.67	48.69	45.82	43.25	40.91	38.16
180.0	72.63	67.65	62.09	58.29	54.72	51.50	47.75	45.00	42.49
225.0	63.97	59.93	55.42	52.14	49.16	46.41	43.25	40.91	38.68
270.0	63.73	59.93	56.47	53.20	49.57	46.94	44.42	41.49	39.33
315.0	57.00	53.72	49.86	47.11	44.54	42.25	39.50	37.45	35.00
360.0	52.09	49.10	45.82	43.42	41.14	38.51	36.58	34.76	32.66
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	31.13	29.26	28.03	26.74	25.57	24.17	23.00	21.83	20.72
45.0	34.82	33.07	31.02	29.55	28.15	26.63	25.40	24.11	22.59
90.0	34.18	32.42	30.37	28.91	27.56	26.34	24.81	23.64	22.30
135.0	36.11	34.18	32.42	30.43	28.91	27.51	26.10	24.52	23.41
180.0	40.15	37.34	35.29	33.42	31.25	29.73	28.27	26.63	25.46
225.0	36.58	34.18	32.42	30.78	28.91	27.56	26.04	24.93	23.88
270.0	36.69	34.76	33.07	31.37	29.61	28.27	26.98	25.75	24.40
315.0	33.24	31.66	29.67	28.32	27.04	25.81	24.76	23.35	22.18
360.0	31.13	29.26	28.03	26.74	25.57	24.17	23.00	21.83	20.72
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.31	18.14	17.38	16.91	17.56	18.38	19.25	19.66	20.19
45.0	21.48	20.60	20.31	20.72	21.54	22.36	22.88	22.65	22.71
90.0	20.78	19.61	18.20	17.21	16.44	15.86	15.57	15.22	14.98
135.0	22.00	20.83	19.66	18.38	17.21	16.21	15.57	15.04	14.69
180.0	24.35	22.88	21.83	20.60	19.37	18.26	17.09	16.21	15.57
225.0	22.82	21.30	20.25	19.20	18.14	16.97	17.15	18.02	18.26
270.0	23.23	22.00	20.48	19.37	18.26	16.97	16.33	15.80	15.39
315.0	21.01	19.90	18.55	17.50	16.74	16.09	15.74	15.39	15.10
360.0	19.31	18.14	17.38	16.91	17.56	18.38	19.25	19.66	20.19
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	20.72	20.78	21.07	20.31	18.96	17.62	15.04	12.87	12.58
45.0	21.65	20.83	20.54	19.25	18.84	17.97	17.21	14.92	13.11
90.0	14.63	14.40	14.16	13.93	13.64	13.40	13.23	12.99	12.93
135.0	14.46	14.16	13.81	13.58	13.28	12.93	12.76	12.58	12.47
180.0	15.16	14.86	14.57	14.28	13.93	13.64	13.34	13.11	12.87
225.0	17.38	16.85	16.15	15.45	14.81	14.05	13.46	13.05	12.87
270.0	15.10	14.81	14.46	14.16	13.87	13.58	13.17	12.99	12.76
315.0	14.86	14.69	14.51	14.16	13.87	13.52	13.23	12.99	12.76
360.0	20.72	20.78	21.07	20.31	18.96	17.62	15.04	12.87	12.58
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.35	11.70	11.29	11.18	10.48	9.71	9.48	9.66	9.77
45.0	12.64	12.41	11.94	11.18	10.83	10.59	9.89	9.42	9.60
90.0	12.76	12.70	12.11	11.12	10.53	10.53	10.01	9.42	9.42
135.0	12.47	12.64	12.64	12.52	11.88	10.71	10.48	10.42	9.77
180.0	12.76	12.70	12.82	12.87	12.82	12.41	11.47	10.53	10.36
225.0	12.76	12.64	12.52	12.41	12.06	11.06	10.30	10.12	9.83
270.0	12.64	12.58	12.41	12.35	11.94	11.12	10.42	10.18	9.71
315.0	12.47	12.41	12.23	11.59	11.12	10.65	10.24	9.54	9.42
360.0	12.35	11.70	11.29	11.18	10.48	9.71	9.48	9.66	9.77

Intensity data(cd)

C/γ(°)	90.0
0.0	9.60
45.0	9.83
90.0	9.60
135.0	9.42
180.0	10.12
225.0	9.48
270.0	9.42
315.0	9.60
360.0	9.60