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NT

Client:

LumCAT: 2-2685-L

Luminaire: 92.70.412.00

Report No: 2024229-B003

Ballast type: AC

Test No: 2024229-C003

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): 2231.27, Efficiency(%): 85.52% , Luminous Efficacy(lm/W): 116.55

Central intensity(cd): 3840.159, Maximum intensity(cd): 3840.159

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

Beam Angle(50%Imax): [C0/180]Total=45.2

[C90/270]Total=45.2

Field angle(10%Imax): [C0/180]Total=69.0

[C90/270]Total=69.0

Maximum s/h(1/2): C0\_180=0.72 C90\_270=0.72

Maximum s/h(1/4): C0\_180=0.70 C90\_270=0.70

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 85.52%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.866%

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	3840.159	0.000	0	0.00%	0.00%
1.0	3835.843	3.673	3.673	0.14%	0.16%
2.0	3824.797	10.995	14.668	0.42%	0.66%
3.0	3806.655	18.252	32.92	0.70%	1.48%
4.0	3781.856	25.401	58.321	0.97%	2.61%
5.0	3751.497	32.408	90.729	1.24%	4.07%
6.0	3712.433	39.225	129.954	1.50%	5.82%
7.0	3662.250	45.775	175.729	1.75%	7.88%
8.0	3602.557	51.993	227.722	1.99%	10.21%
9.0	3533.354	57.833	285.554	2.22%	12.80%
10.0	3446.375	63.164	348.718	2.42%	15.63%
11.0	3363.786	68.048	416.766	2.61%	18.68%
12.0	3263.127	72.442	489.207	2.78%	21.93%
13.0	3167.004	76.309	565.517	2.92%	25.35%
14.0	3060.054	79.706	645.223	3.06%	28.92%
15.0	2943.667	82.422	727.644	3.16%	32.61%
16.0	2818.722	84.435	812.08	3.24%	36.40%
17.0	2681.121	85.647	897.727	3.28%	40.23%
18.0	2551.640	86.277	984.004	3.31%	44.10%
19.0	2412.868	86.372	1070.376	3.31%	47.97%
20.0	2283.899	85.964	1156.34	3.29%	51.82%
21.0	2140.519	84.958	1241.298	3.26%	55.63%
22.0	2002.186	83.249	1324.547	3.19%	59.36%
23.0	1865.171	81.148	1405.695	3.11%	63.00%
24.0	1704.892	78.054	1483.749	2.99%	66.50%
25.0	1547.057	73.942	1557.691	2.83%	69.81%
26.0	1385.528	69.224	1626.915	2.65%	72.91%
27.0	1248.065	64.431	1691.347	2.47%	75.80%
28.0	1136.990	60.385	1751.731	2.31%	78.51%
29.0	1007.106	56.096	1807.827	2.15%	81.02%
30.0	875.423	50.828	1858.655	1.95%	83.30%
31.0	737.369	44.882	1903.536	1.72%	85.31%
32.0	621.311	38.925	1942.461	1.49%	87.06%
33.0	511.026	33.359	1975.82	1.28%	88.55%
34.0	421.486	28.221	2004.041	1.08%	89.82%
35.0	350.396	23.972	2028.013	0.92%	90.89%
36.0	295.144	20.554	2048.567	0.79%	91.81%
37.0	258.428	18.054	2066.621	0.69%	92.62%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	210.622	15.656	2082.277	0.60%	93.32%
39.0	168.976	12.957	2095.234	0.50%	93.90%
40.0	134.316	10.578	2105.812	0.41%	94.38%
41.0	109.935	8.698	2114.51	0.33%	94.77%
42.0	92.795	7.366	2121.875	0.28%	95.10%
43.0	78.076	6.330	2128.205	0.24%	95.38%
44.0	66.774	5.467	2133.672	0.21%	95.63%
45.0	57.952	4.793	2138.465	0.18%	95.84%
46.0	51.822	4.293	2142.758	0.16%	96.03%
47.0	46.869	3.925	2146.683	0.15%	96.21%
48.0	43.175	3.640	2150.323	0.14%	96.37%
49.0	40.263	3.426	2153.75	0.13%	96.53%
50.0	37.813	3.255	2157.005	0.12%	96.67%
51.0	35.626	3.107	2160.112	0.12%	96.81%
52.0	33.804	2.979	2163.091	0.11%	96.94%
53.0	32.165	2.870	2165.961	0.11%	97.07%
54.0	30.754	2.773	2168.734	0.11%	97.20%
55.0	29.466	2.688	2171.422	0.10%	97.32%
56.0	28.244	2.608	2174.03	0.10%	97.43%
57.0	27.045	2.528	2176.558	0.10%	97.55%
58.0	25.918	2.449	2179.007	0.09%	97.66%
59.0	24.799	2.371	2181.378	0.09%	97.76%
60.0	23.607	2.287	2183.665	0.09%	97.87%
61.0	22.560	2.203	2185.868	0.08%	97.97%
62.0	21.434	2.120	2187.988	0.08%	98.06%
63.0	20.395	2.034	2190.023	0.08%	98.15%
64.0	19.473	1.956	2191.979	0.07%	98.24%
65.0	18.574	1.883	2193.862	0.07%	98.32%
66.0	17.805	1.815	2195.677	0.07%	98.40%
67.0	17.169	1.759	2197.436	0.07%	98.48%
68.0	16.774	1.719	2199.155	0.07%	98.56%
69.0	16.452	1.695	2200.85	0.06%	98.64%
70.0	16.225	1.678	2202.528	0.06%	98.71%
71.0	16.057	1.669	2204.197	0.06%	98.79%
72.0	15.911	1.662	2205.859	0.06%	98.86%
73.0	15.772	1.657	2207.516	0.06%	98.94%
74.0	15.647	1.652	2209.168	0.06%	99.01%
75.0	15.538	1.648	2210.815	0.06%	99.08%

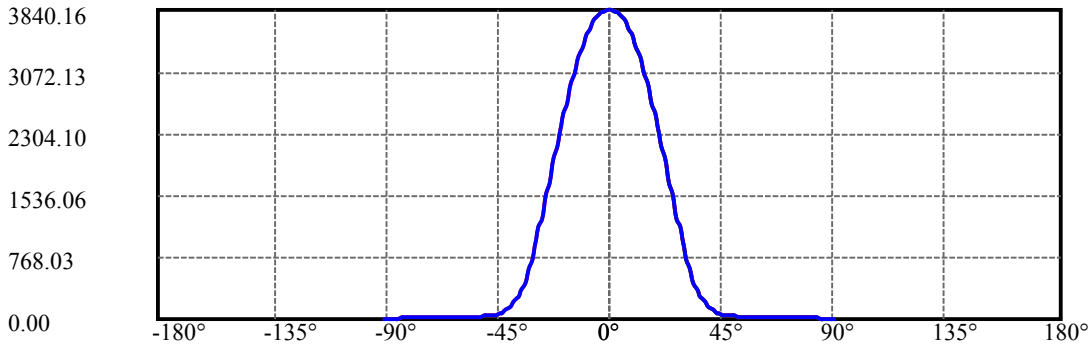
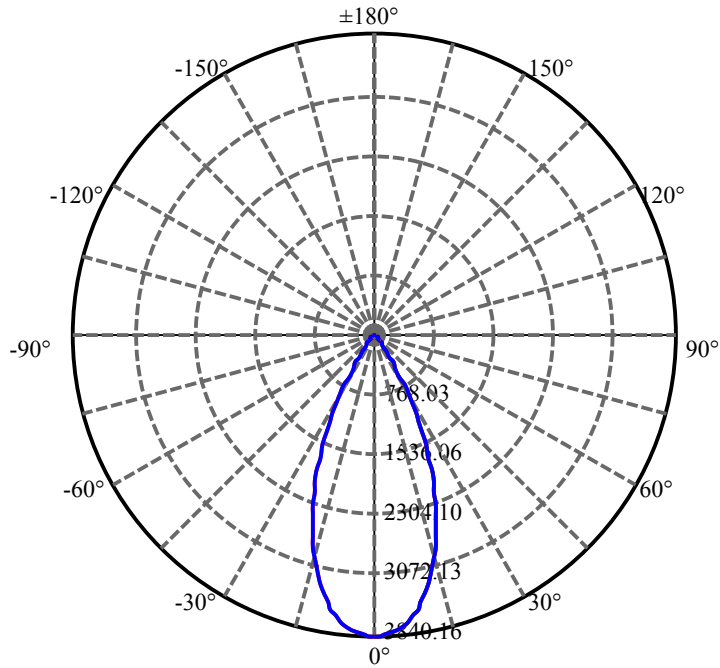
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.384	1.641	2212.457	0.06%	99.16%
77.0	15.252	1.633	2214.09	0.06%	99.23%
78.0	15.004	1.620	2215.71	0.06%	99.30%
79.0	14.740	1.598	2217.308	0.06%	99.37%
80.0	14.323	1.567	2218.875	0.06%	99.44%
81.0	13.782	1.520	2220.395	0.06%	99.51%
82.0	13.168	1.461	2221.856	0.06%	99.58%
83.0	12.392	1.389	2223.246	0.05%	99.64%
84.0	11.624	1.308	2224.554	0.05%	99.70%
85.0	10.922	1.231	2225.784	0.05%	99.75%
86.0	10.395	1.165	2226.95	0.04%	99.81%
87.0	10.022	1.117	2228.067	0.04%	99.86%
88.0	9.773	1.084	2229.151	0.04%	99.91%
89.0	9.627	1.063	2230.215	0.04%	99.95%
90.0	9.583	1.053	2231.268	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1858.65	71.24%	83.30%
0-40	2105.81	80.71%	94.38%
0-60	2183.67	83.70%	97.87%
0-90	2230.21	85.48%	99.95%
0-120	2230.21	85.48%	99.95%
0-180	2231.27	85.52%	100.00%
60-90	46.55	1.78%	2.09%
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%
0-28.59	1785.01	68.42%	80.00%

ZONAL LUMEN SUMMARY

0-10	348.72
10-20	807.62
20-30	702.31
30-40	247.16
40-50	51.19
50-60	26.66
60-70	18.86
70-80	16.35
80-90	11.34
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: —————

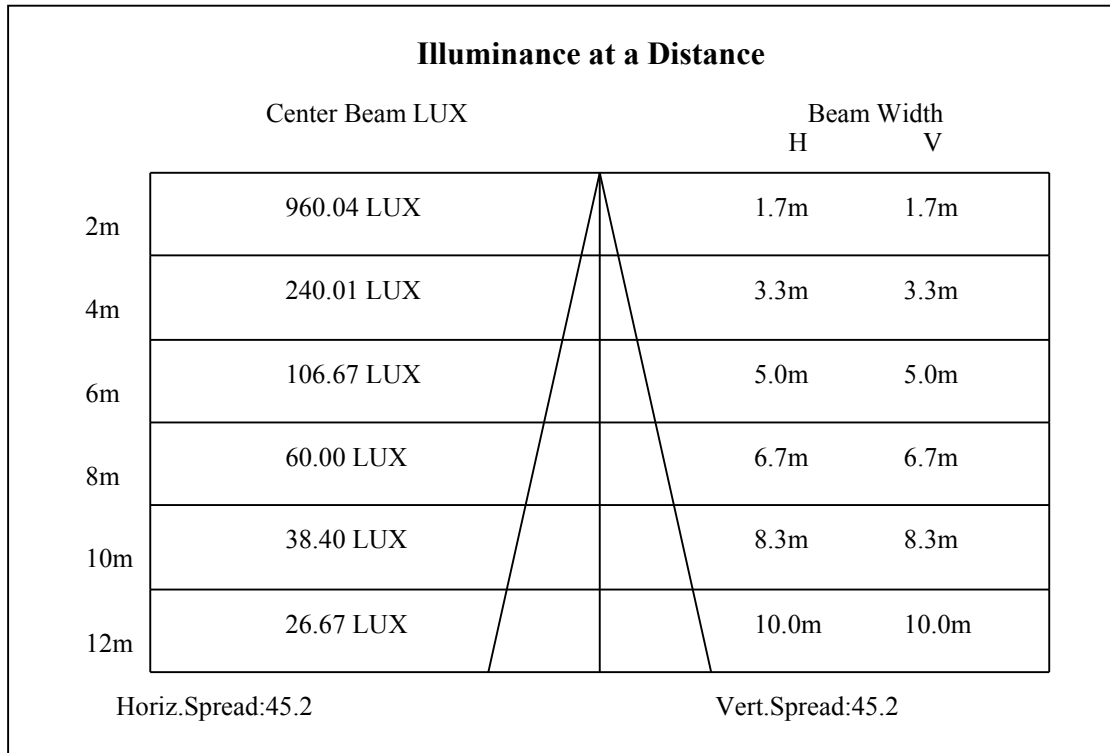
C90/C270: —————

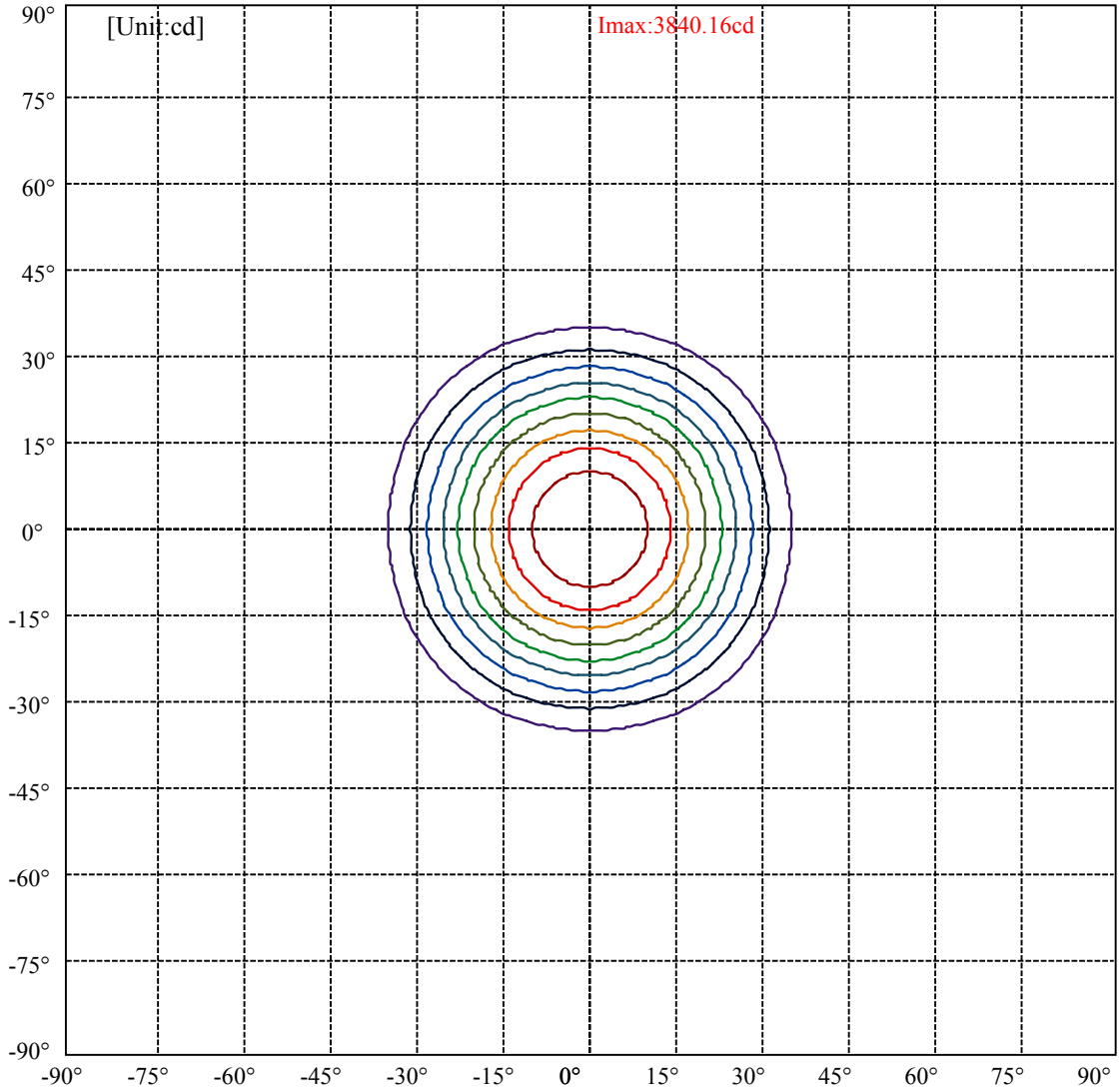
Field angle(10%Imax):C0/180Left:34.5 Right:34.5

:C90/270Left:34.5 Right:34.5

Beam Angle(50%Imax):C0/180Left:22.6 Right:22.6

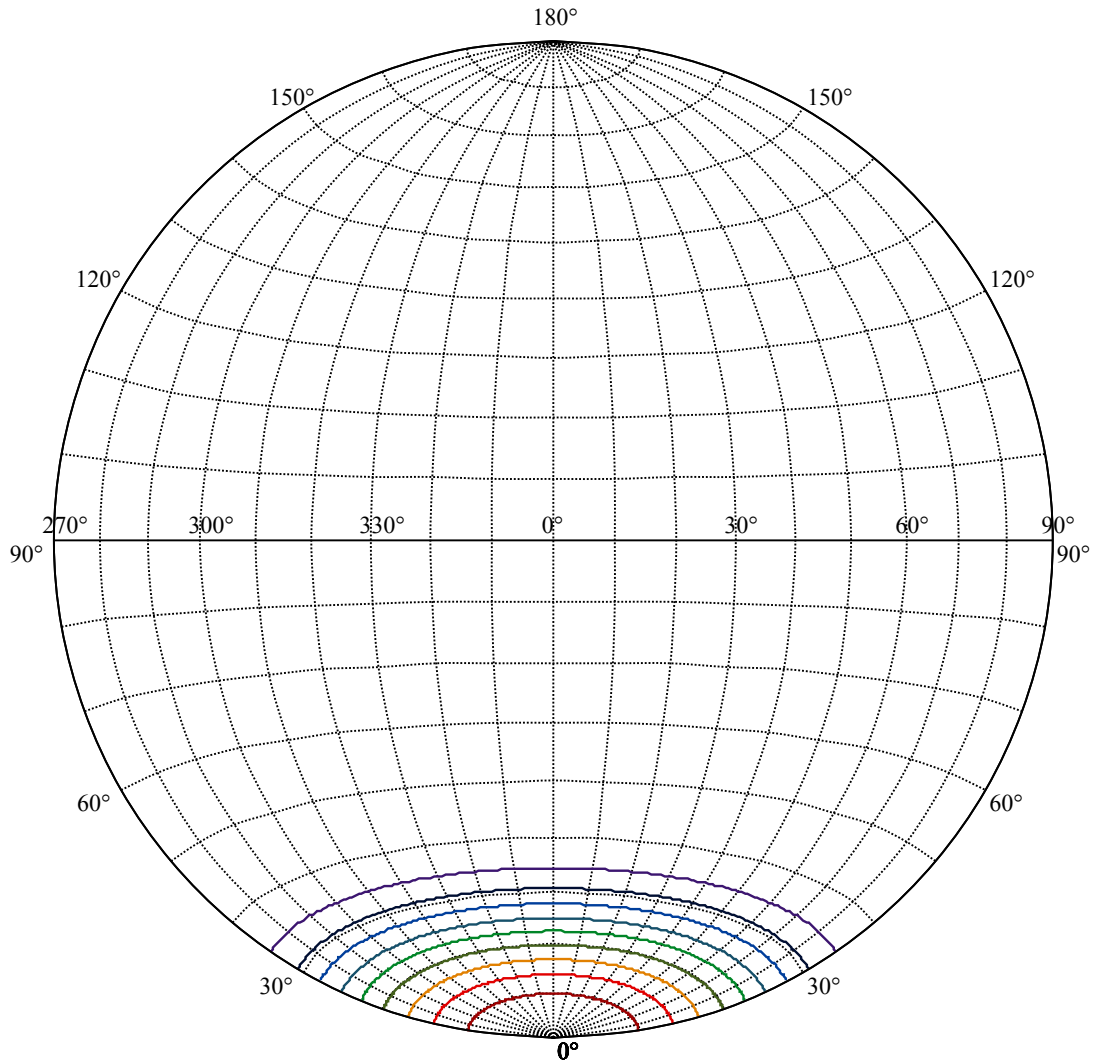
:C90/270Left:22.6 Right:22.6





(10%Imax) 384.016	—
(20%Imax) 768.032	—
(30%Imax) 1152.05	—
(40%Imax) 1536.06	—
(50%Imax) 1920.08	—
(60%Imax) 2304.1	—
(70%Imax) 2688.11	—
(80%Imax) 3072.13	—
(90%Imax) 3456.14	—





House

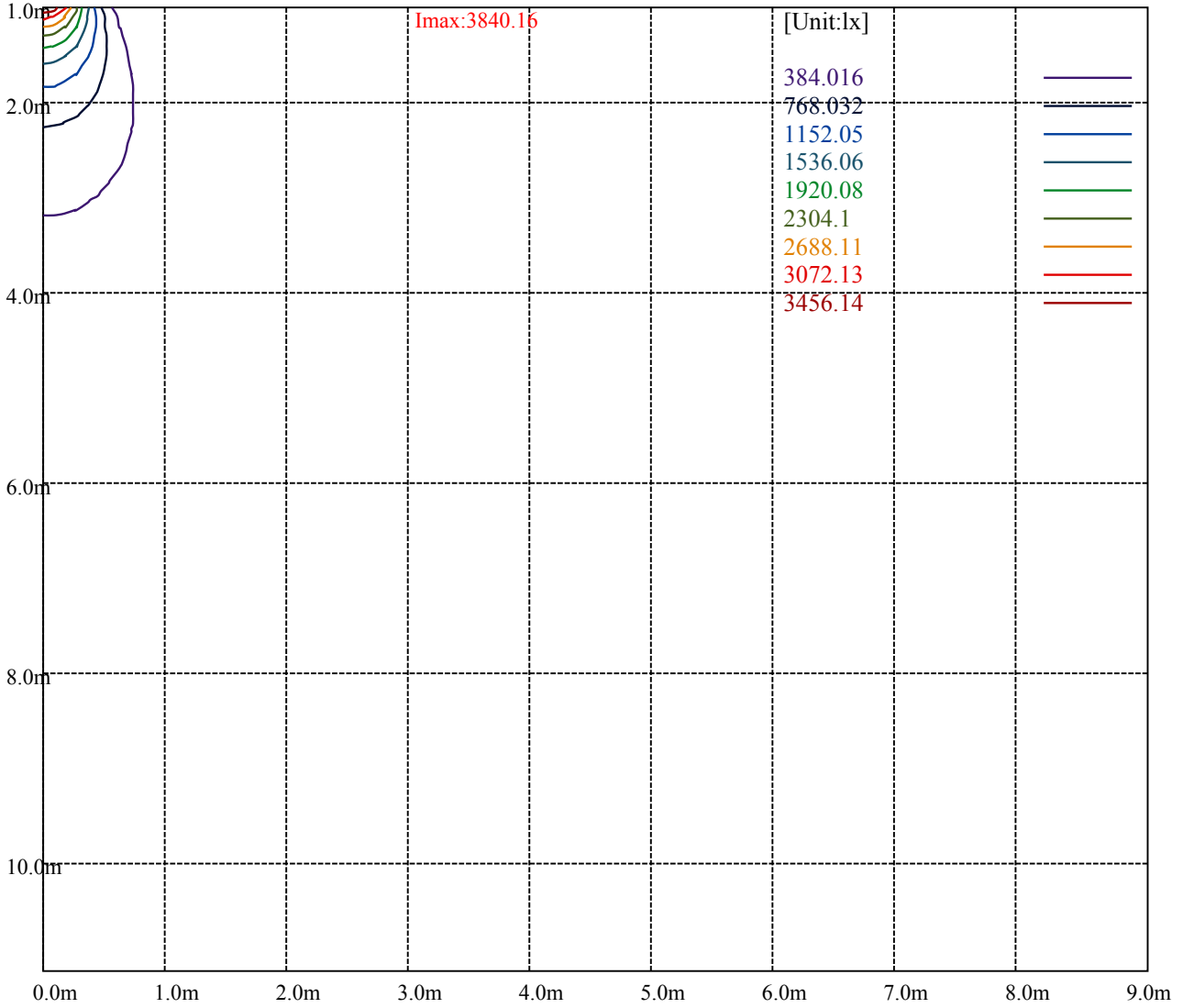
[Unit:cd]

Road

I<sub>max</sub>:3840.16

(10%I <sub>max</sub> )	384.016	—
(20%I <sub>max</sub> )	768.032	—
(30%I <sub>max</sub> )	1152.05	—
(40%I <sub>max</sub> )	1536.06	—
(50%I <sub>max</sub> )	1920.08	—
(60%I <sub>max</sub> )	2304.1	—
(70%I <sub>max</sub> )	2688.11	—
(80%I <sub>max</sub> )	3072.13	—
(90%I <sub>max</sub> )	3456.14	—





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

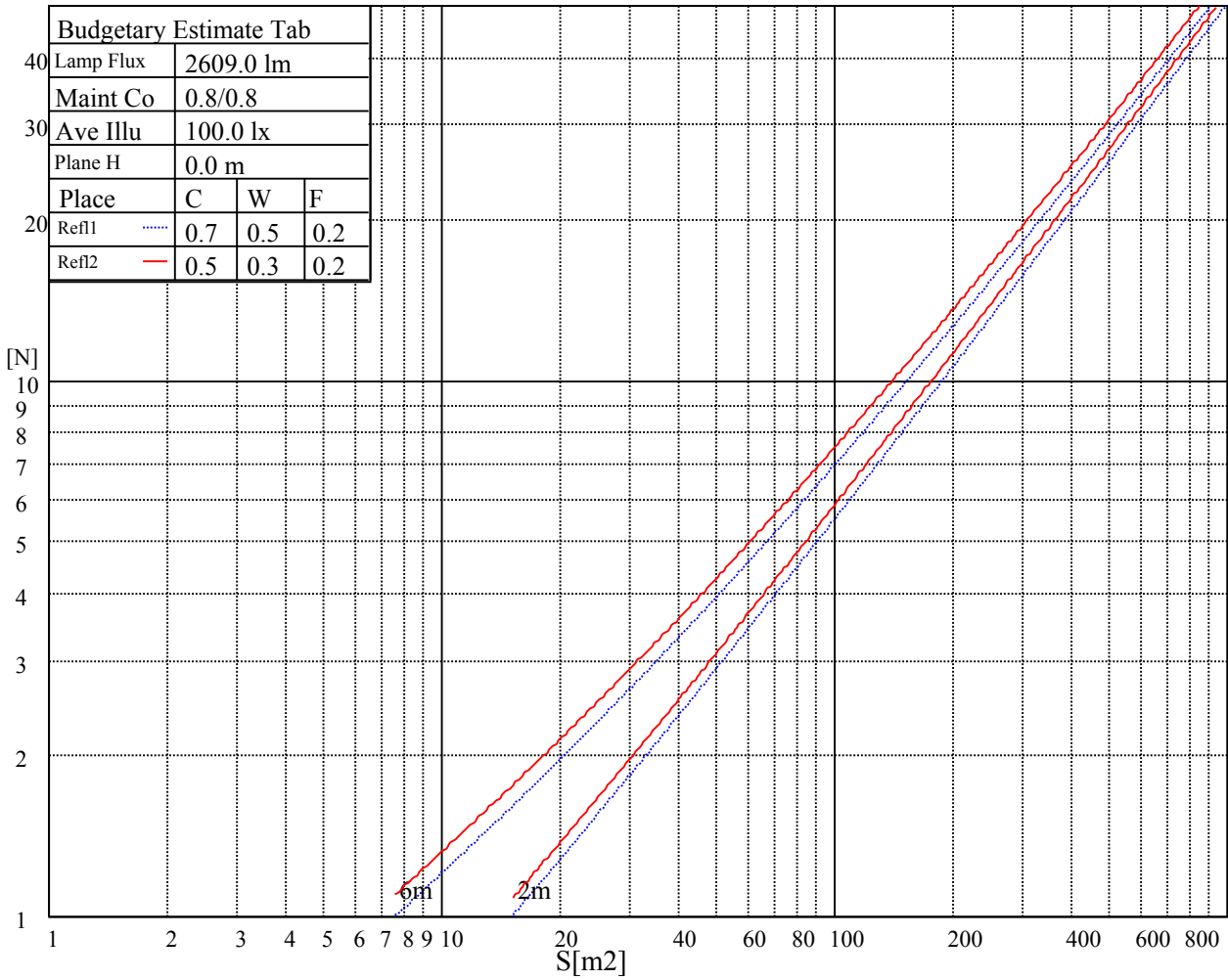
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

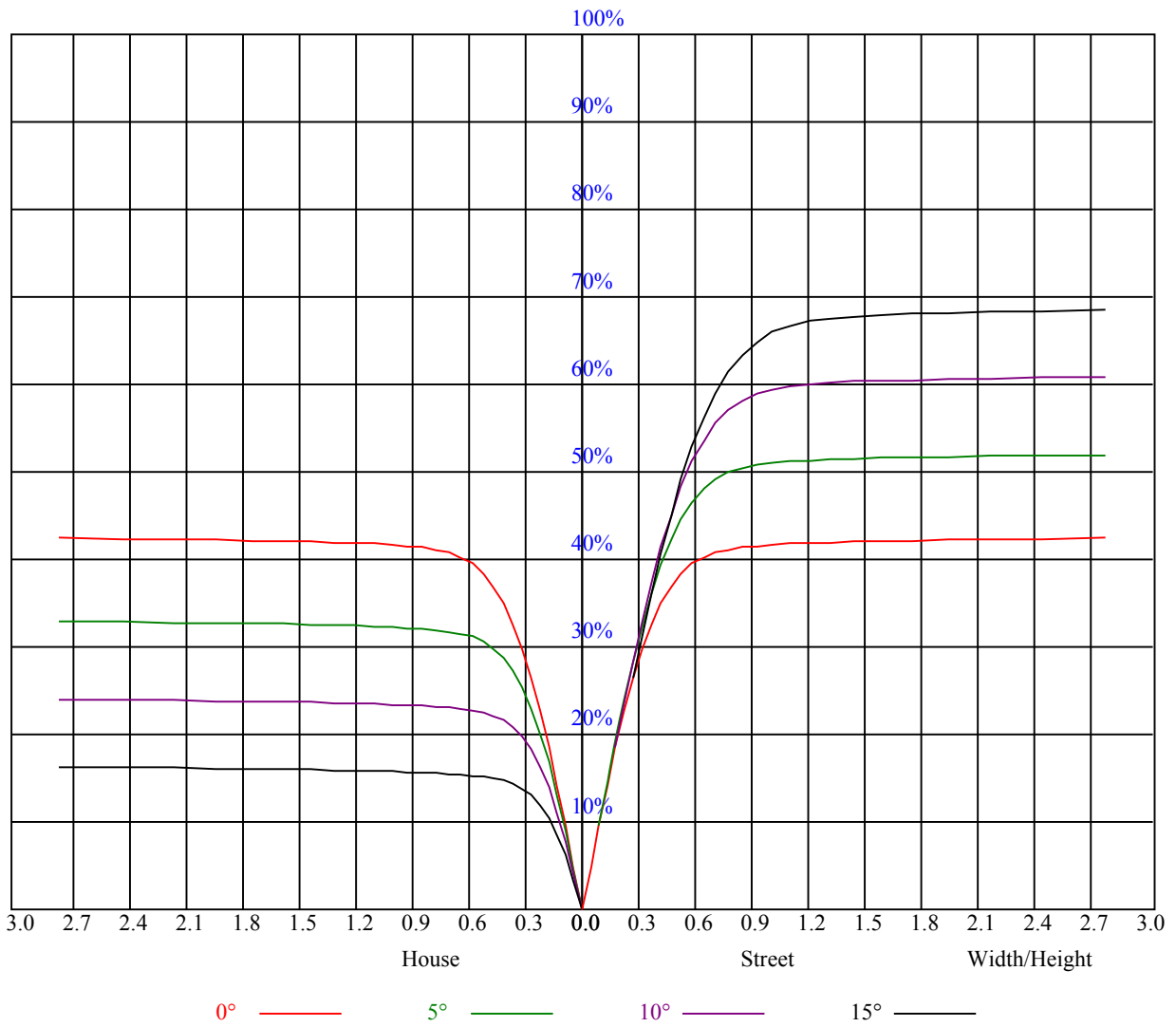


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字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

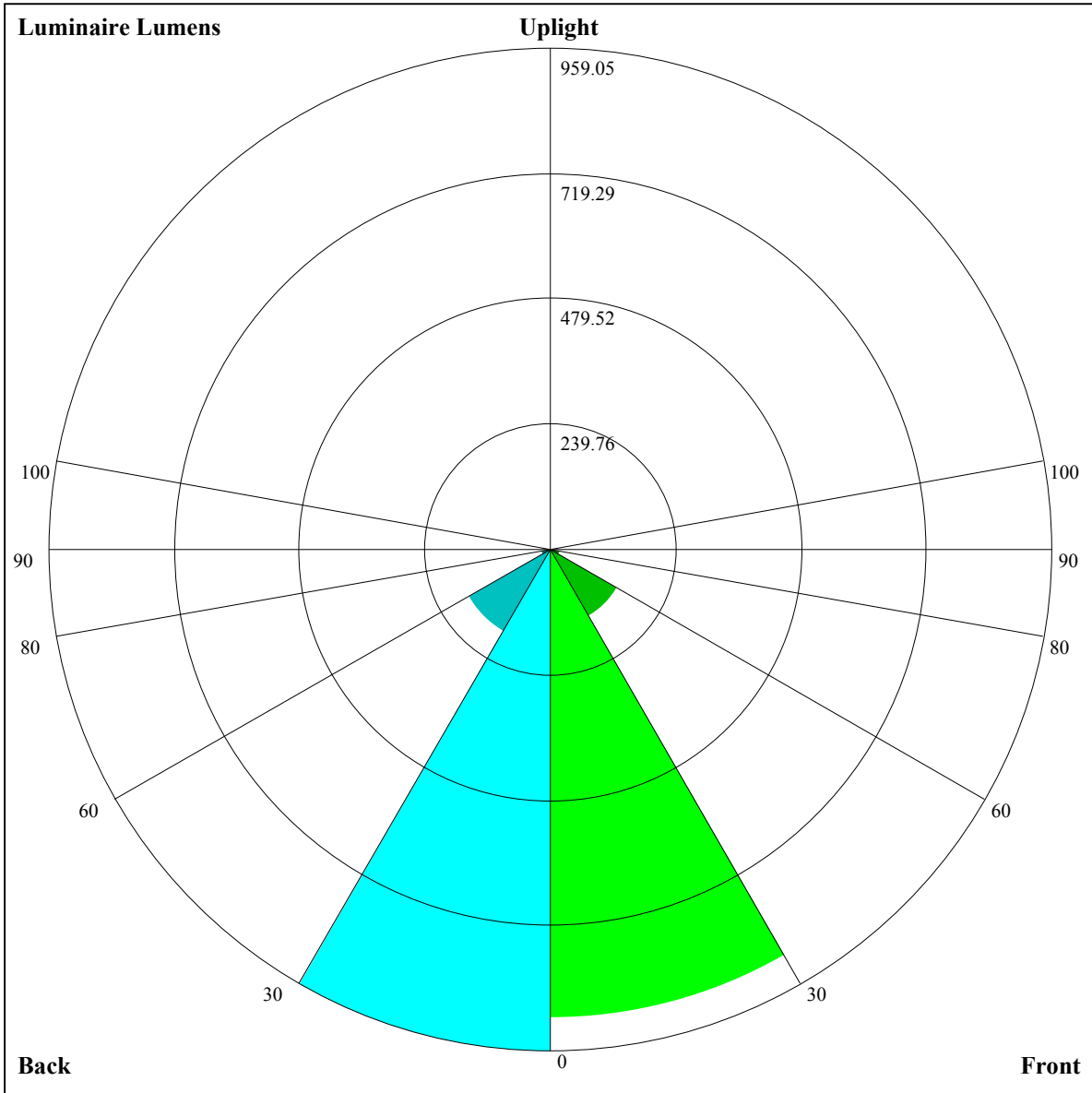
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	1.02	1.02	1.02	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.86
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	0.83	0.83	0.82	0.80
2	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.82	0.80	0.82	0.80	0.78	0.80	0.78	0.77	0.75
3	0.84	0.80	0.76	0.82	0.79	0.76	0.80	0.77	0.75	0.78	0.76	0.73	0.76	0.74	0.72	0.71
4	0.79	0.74	0.71	0.78	0.74	0.71	0.76	0.73	0.70	0.74	0.71	0.69	0.73	0.70	0.68	0.67
5	0.75	0.70	0.67	0.74	0.70	0.66	0.72	0.69	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.63
6	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.60
7	0.67	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.58	0.57
8	0.64	0.59	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.55	0.54
9	0.61	0.56	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.59	0.56	0.53	0.58	0.55	0.53	0.52
10	0.58	0.54	0.51	0.58	0.54	0.51	0.57	0.53	0.51	0.57	0.53	0.51	0.56	0.53	0.50	0.49







Luminaire Lumens:

FL=896.13,FM=147.82,FH=17.26,FVH=6.03

BL=959.05,BM=180.94,BH=17.98,BVH=6.38

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	3823.92	3808.12	3785.88	3758.37	3715.07	3671.76	3616.16	3530.14	3452.89
45.0	3842.65	3838.55	3826.84	3805.78	3781.78	3749.01	3699.27	3647.18	3568.18
90.0	3846.16	3837.96	3823.33	3795.24	3765.98	3732.04	3676.44	3617.33	3543.01
135.0	3847.91	3850.84	3843.82	3831.53	3807.53	3780.61	3750.18	3702.78	3655.37
180.0	3823.92	3835.62	3840.89	3835.62	3827.43	3805.78	3784.71	3757.20	3718.58
225.0	3842.65	3836.79	3824.50	3809.87	3789.39	3764.81	3728.53	3691.07	3643.67
270.0	3846.16	3846.74	3835.62	3821.58	3797.00	3774.76	3746.67	3715.07	3663.57
315.0	3847.91	3832.11	3817.48	3795.24	3770.66	3733.21	3697.51	3637.23	3575.20
360.0	3823.92	3808.12	3785.88	3758.37	3715.07	3671.76	3616.16	3530.14	3452.89
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3369.20	3263.27	3170.22	3047.33	2937.89	2814.41	2685.66	2555.15	2399.48
45.0	3494.44	3416.60	3334.67	3224.65	3131.01	3026.84	2913.31	2752.96	2623.62
90.0	3460.49	3353.40	3266.20	3173.15	3076.59	2942.57	2815.58	2656.98	2531.16
135.0	3590.41	3495.61	3409.58	3299.56	3210.60	3115.80	3011.63	2894.58	2737.16
180.0	3675.86	3609.73	3543.01	3467.52	3378.56	3266.78	3174.90	3082.44	2981.19
225.0	3566.42	3492.10	3408.41	3302.48	3214.70	3123.40	2993.48	2881.12	2754.71
270.0	3607.39	3538.33	3459.91	3357.49	3269.71	3174.90	3052.59	2948.42	2800.95
315.0	3502.63	3401.97	3318.28	3232.84	3116.97	3015.72	2902.19	2778.12	2620.70
360.0	3369.20	3263.27	3170.22	3047.33	2937.89	2814.41	2685.66	2555.15	2399.48
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2275.41	2149.00	2021.43	1857.56	1722.38	1555.59	1320.91	1149.67	1115.50
45.0	2495.46	2340.96	2215.14	2089.31	1925.45	1792.60	1660.34	1492.97	1361.29
90.0	2407.67	2254.93	2125.01	1995.68	1827.13	1689.60	1552.66	1321.50	1148.91
135.0	2613.67	2486.68	2360.86	2204.60	2077.61	1948.86	1782.07	1643.37	1470.73
180.0	2831.38	2699.12	2579.15	2417.62	2285.36	2161.88	2003.87	1878.63	1749.30
225.0	2627.72	2468.54	2345.06	2222.74	2097.50	1943.01	1811.92	1645.71	1515.21
270.0	2668.10	2540.52	2390.12	2261.95	2134.37	2012.06	1849.37	1717.69	1587.77
315.0	2493.70	2363.20	2234.45	2074.68	1947.69	1817.77	1658.00	1526.91	1135.51
360.0	2275.41	2149.00	2021.43	1857.56	1722.38	1555.59	1320.91	1149.67	1115.50
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	981.66	854.96	697.06	584.17	486.20	406.15	325.62	271.60	225.55
45.0	1227.28	1064.00	933.49	804.74	684.19	550.76	462.97	389.82	326.61
90.0	1116.14	986.57	860.87	735.57	588.44	489.89	391.81	329.01	274.88
135.0	1332.62	1195.67	1028.30	898.38	773.73	653.75	521.49	437.81	369.34
180.0	1587.19	1452.00	1317.99	1183.38	1012.50	880.82	757.92	608.11	508.03
225.0	1148.04	1148.04	1083.49	952.04	793.92	670.96	557.72	462.68	369.75
270.0	1456.10	1291.65	1162.32	1030.64	871.46	745.05	594.65	492.82	411.47
315.0	1135.51	1103.03	973.35	814.46	688.52	573.11	476.02	380.05	317.54
360.0	981.66	854.96	697.06	584.17	486.20	406.15	325.62	271.60	225.55
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	186.98	148.24	123.13	103.23	87.02	71.16	61.68	53.14	48.16
45.0	297.35	297.35	173.11	137.00	114.18	96.74	79.53	68.76	60.28
90.0	220.34	184.11	154.15	130.15	105.87	89.95	77.13	64.37	56.94
135.0	310.23	296.77	237.37	169.01	141.16	114.65	97.15	82.87	68.88
180.0	424.35	357.05	301.45	301.45	197.98	157.89	132.55	111.54	90.65
225.0	312.16	262.01	219.93	176.45	148.47	125.00	105.63	86.20	73.91
270.0	345.93	303.21	303.21	191.25	160.53	128.57	108.09	91.53	77.83
315.0	263.82	218.70	172.64	143.26	119.33	95.51	80.59	66.19	57.53
360.0	186.98	148.24	123.13	103.23	87.02	71.16	61.68	53.14	48.16

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	43.60	40.91	38.45	36.34	34.06	32.60	31.19	29.96	28.85
45.0	52.96	48.34	44.65	41.61	38.22	36.05	34.18	32.60	30.84
90.0	51.44	47.23	43.25	40.61	38.27	35.76	34.06	32.13	30.84
135.0	60.69	53.14	48.57	45.06	42.19	39.03	36.93	35.11	33.47
180.0	77.60	67.18	57.47	51.85	47.64	44.30	40.97	38.68	36.64
225.0	61.92	54.95	49.86	45.06	42.14	39.62	37.40	35.00	33.30
270.0	64.43	56.47	50.50	45.24	42.14	39.68	36.93	35.05	32.89
315.0	50.97	46.35	42.19	39.62	37.45	35.46	33.36	31.89	30.49
360.0	43.60	40.91	38.45	36.34	34.06	32.60	31.19	29.96	28.85
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	27.62	26.63	25.63	24.29	23.29	22.06	21.01	20.19	19.08
45.0	29.61	28.44	27.21	26.16	24.87	23.76	22.71	21.59	20.42
90.0	29.67	28.56	27.10	25.98	24.93	23.82	22.47	21.42	20.60
135.0	31.66	30.37	29.26	27.92	26.80	25.63	24.29	23.12	22.06
180.0	34.82	32.83	31.31	30.14	28.73	27.68	26.34	25.22	24.05
225.0	31.84	30.55	29.20	28.09	26.98	25.63	24.58	23.47	22.06
270.0	31.43	30.20	29.09	27.80	26.80	25.81	24.70	23.70	22.41
315.0	29.38	28.15	27.15	25.98	24.93	23.99	22.77	21.77	20.78
360.0	27.62	26.63	25.63	24.29	23.29	22.06	21.01	20.19	19.08
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	18.14	17.44	16.97	16.62	16.33	16.09	15.98	15.80	15.68
45.0	19.61	18.67	17.73	17.09	16.68	16.39	16.15	15.98	15.86
90.0	19.78	18.61	17.79	17.15	16.74	16.50	16.27	16.09	15.98
135.0	20.89	20.01	19.14	18.14	17.32	16.91	16.56	16.39	16.15
180.0	22.65	21.59	20.60	19.78	18.55	17.79	17.21	16.85	16.56
225.0	21.07	20.19	19.08	18.02	17.44	16.97	16.50	16.33	16.15
270.0	21.36	20.42	19.37	18.43	17.44	17.03	16.68	16.33	16.15
315.0	19.66	18.84	17.91	17.21	16.85	16.50	16.27	16.04	15.92
360.0	18.14	17.44	16.97	16.62	16.33	16.09	15.98	15.80	15.68
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.57	15.45	15.33	15.22	15.04	14.81	14.22	13.75	13.17
45.0	15.68	15.57	15.45	15.39	15.27	15.16	14.86	14.57	13.99
90.0	15.86	15.74	15.63	15.57	15.45	15.27	14.98	14.57	13.99
135.0	16.04	15.92	15.80	15.68	15.51	15.39	15.27	15.10	14.86
180.0	16.33	16.15	16.04	15.92	15.74	15.68	15.51	15.39	15.16
225.0	16.04	15.86	15.74	15.63	15.45	15.33	15.16	14.92	14.75
270.0	15.98	15.86	15.68	15.51	15.39	15.27	15.10	14.92	14.63
315.0	15.80	15.63	15.51	15.39	15.22	15.10	14.92	14.69	14.05
360.0	15.57	15.45	15.33	15.22	15.04	14.81	14.22	13.75	13.17
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.29	11.41	10.65	10.24	9.95	9.71	9.60	9.54	9.60
45.0	13.46	12.76	11.70	10.89	10.30	9.95	9.77	9.60	9.54
90.0	13.58	12.52	11.53	10.94	10.24	9.95	9.71	9.60	9.54
135.0	14.16	13.75	12.93	11.94	11.18	10.53	10.12	9.83	9.66
180.0	14.92	14.34	13.93	13.58	12.52	11.53	10.89	10.24	9.89
225.0	14.10	13.81	13.17	12.00	11.29	10.71	10.18	9.83	9.60
270.0	14.05	13.81	13.11	12.23	11.35	10.65	10.07	9.89	9.66
315.0	13.69	12.93	12.11	11.18	10.53	10.12	9.83	9.66	9.54
360.0	12.29	11.41	10.65	10.24	9.95	9.71	9.60	9.54	9.60

Intensity data(cd)

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