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NT

Client:

LumCAT: 2-2565-L

Luminaire: 92.70.412.00

Report No: 2024806-B003

Ballast type: AC

Test No: 2024806-C003

Voltage(V): 35.010

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.450

Lamp flux(lm): 2571.0

Power (W): 15.754

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 2368.35, Efficiency(%): 92.12% , Luminous Efficacy(lm/W): 150.33

Central intensity(cd): 7255.825, Maximum intensity(cd): 7255.825

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

Beam Angle(50%Imax): [C0/180]Total=25.8

[C90/270]Total=25.8

Field angle(10%Imax): [C0/180]Total=61.6

[C90/270]Total=61.6

Maximum s/h(1/2): C0\_180=0.43 C90\_270=0.43

Maximum s/h(1/4): C0\_180=0.49 C90\_270=0.49

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 92.12%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.967%

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2024/8/6  
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	7255.824	0.000	0	0.00%	0.00%
1.0	7208.641	6.921	6.921	0.27%	0.29%
2.0	7096.716	20.532	27.453	0.80%	1.16%
3.0	6921.368	33.527	60.98	1.30%	2.57%
4.0	6680.256	45.529	106.509	1.77%	4.50%
5.0	6396.714	56.256	162.765	2.19%	6.87%
6.0	6076.596	65.551	228.316	2.55%	9.64%
7.0	5723.778	73.245	301.561	2.85%	12.73%
8.0	5340.968	79.188	380.749	3.08%	16.08%
9.0	4973.593	83.594	464.343	3.25%	19.61%
10.0	4601.097	86.647	550.99	3.37%	23.26%
11.0	4267.812	88.619	639.609	3.45%	27.01%
12.0	3935.916	89.678	729.287	3.49%	30.79%
13.0	3600.070	89.433	818.721	3.48%	34.57%
14.0	3319.016	88.564	907.284	3.44%	38.31%
15.0	3051.056	87.451	994.736	3.40%	42.00%
16.0	2798.678	85.715	1080.451	3.33%	45.62%
17.0	2550.689	83.304	1163.755	3.24%	49.14%
18.0	2350.030	80.802	1244.557	3.14%	52.55%
19.0	2168.098	78.606	1323.163	3.06%	55.87%
20.0	1996.554	76.225	1399.388	2.96%	59.09%
21.0	1838.543	73.642	1473.029	2.86%	62.20%
22.0	1692.529	70.958	1543.988	2.76%	65.19%
23.0	1572.778	68.515	1612.503	2.66%	68.09%
24.0	1426.113	65.566	1678.069	2.55%	70.85%
25.0	1280.216	61.536	1739.605	2.39%	73.45%
26.0	1198.007	58.499	1798.104	2.28%	75.92%
27.0	1122.184	56.764	1854.868	2.21%	78.32%
28.0	1022.966	54.311	1909.178	2.11%	80.61%
29.0	918.247	50.788	1959.966	1.98%	82.76%
30.0	810.683	46.681	2006.647	1.82%	84.73%
31.0	708.181	42.268	2048.915	1.64%	86.51%
32.0	616.915	37.962	2086.877	1.48%	88.12%
33.0	522.408	33.565	2120.442	1.31%	89.53%
34.0	434.354	28.954	2149.396	1.13%	90.76%
35.0	361.896	24.729	2174.125	0.96%	91.80%
36.0	301.157	21.112	2195.237	0.82%	92.69%
37.0	263.732	18.423	2213.66	0.72%	93.47%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	205.707	15.669	2229.329	0.61%	94.13%
39.0	151.427	12.190	2241.519	0.47%	94.64%
40.0	118.376	9.410	2250.929	0.37%	95.04%
41.0	93.490	7.544	2258.474	0.29%	95.36%
42.0	77.528	6.213	2264.687	0.24%	95.62%
43.0	64.455	5.259	2269.946	0.20%	95.85%
44.0	56.313	4.558	2274.504	0.18%	96.04%
45.0	49.634	4.072	2278.576	0.16%	96.21%
46.0	44.294	3.673	2282.25	0.14%	96.36%
47.0	40.351	3.367	2285.616	0.13%	96.51%
48.0	37.154	3.133	2288.749	0.12%	96.64%
49.0	34.799	2.955	2291.704	0.11%	96.76%
50.0	32.656	2.812	2294.516	0.11%	96.88%
51.0	31.119	2.698	2297.215	0.10%	97.00%
52.0	30.015	2.623	2299.838	0.10%	97.11%
53.0	29.261	2.579	2302.417	0.10%	97.22%
54.0	28.610	2.551	2304.967	0.10%	97.32%
55.0	28.193	2.536	2307.503	0.10%	97.43%
56.0	27.944	2.537	2310.04	0.10%	97.54%
57.0	27.659	2.542	2312.582	0.10%	97.65%
58.0	27.367	2.545	2315.126	0.10%	97.75%
59.0	27.030	2.543	2317.67	0.10%	97.86%
60.0	26.445	2.526	2320.196	0.10%	97.97%
61.0	25.684	2.488	2322.684	0.10%	98.07%
62.0	24.704	2.428	2325.112	0.09%	98.17%
63.0	23.541	2.346	2327.458	0.09%	98.27%
64.0	22.275	2.248	2329.706	0.09%	98.37%
65.0	21.149	2.149	2331.855	0.08%	98.46%
66.0	19.949	2.050	2333.906	0.08%	98.55%
67.0	18.808	1.949	2335.854	0.08%	98.63%
68.0	17.827	1.856	2337.71	0.07%	98.71%
69.0	16.986	1.776	2339.486	0.07%	98.78%
70.0	16.299	1.709	2341.196	0.07%	98.85%
71.0	15.772	1.658	2342.853	0.06%	98.92%
72.0	15.296	1.615	2344.469	0.06%	98.99%
73.0	14.857	1.577	2346.046	0.06%	99.06%
74.0	14.484	1.543	2347.588	0.06%	99.12%
75.0	14.148	1.513	2349.101	0.06%	99.19%

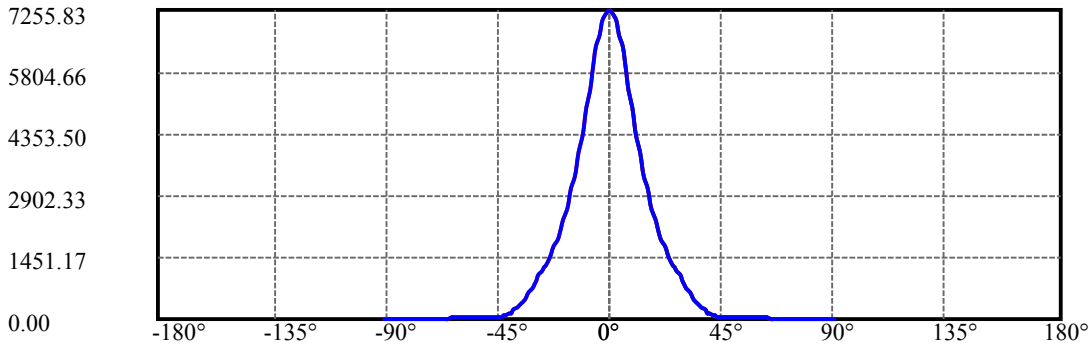
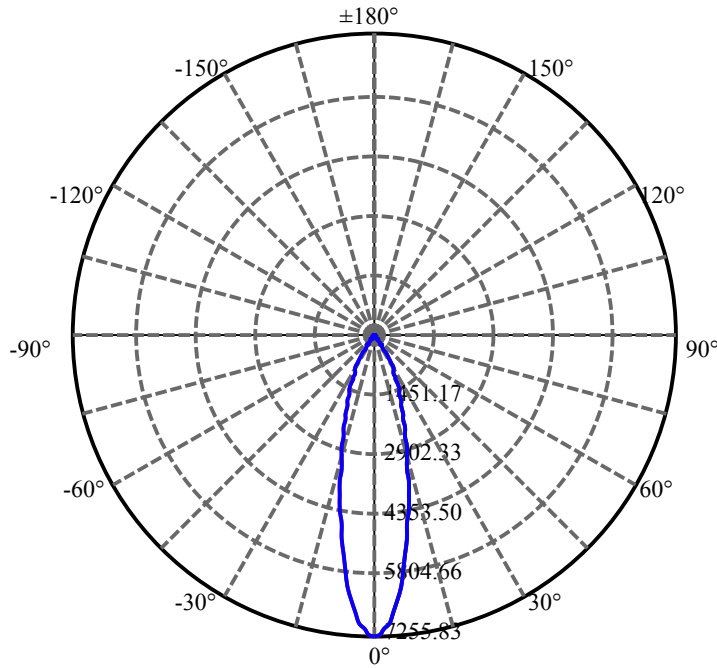
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.753	1.481	2350.582	0.06%	99.25%
77.0	13.453	1.450	2352.032	0.06%	99.31%
78.0	13.109	1.422	2353.454	0.06%	99.37%
79.0	12.765	1.390	2354.845	0.05%	99.43%
80.0	12.451	1.359	2356.204	0.05%	99.49%
81.0	12.136	1.330	2357.534	0.05%	99.54%
82.0	11.851	1.301	2358.834	0.05%	99.60%
83.0	11.580	1.274	2360.108	0.05%	99.65%
84.0	11.302	1.247	2361.355	0.05%	99.70%
85.0	11.068	1.221	2362.576	0.05%	99.76%
86.0	10.812	1.196	2363.772	0.05%	99.81%
87.0	10.607	1.172	2364.944	0.05%	99.86%
88.0	10.424	1.152	2366.096	0.04%	99.91%
89.0	10.227	1.132	2367.228	0.04%	99.95%
90.0	10.154	1.117	2368.345	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2006.65	78.05%	84.73%
0-40	2250.93	87.55%	95.04%
0-60	2320.20	90.24%	97.97%
0-90	2367.23	92.07%	99.95%
0-120	2367.23	92.07%	99.95%
0-180	2368.35	92.12%	100.00%
60-90	47.03	1.83%	1.99%
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%
0-27.73	1894.68	73.69%	80.00%

ZONAL LUMEN SUMMARY

0-10	550.99
10-20	848.40
20-30	607.26
30-40	244.28
40-50	43.59
50-60	25.68
60-70	21.00
70-80	15.01
80-90	11.02
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: —————

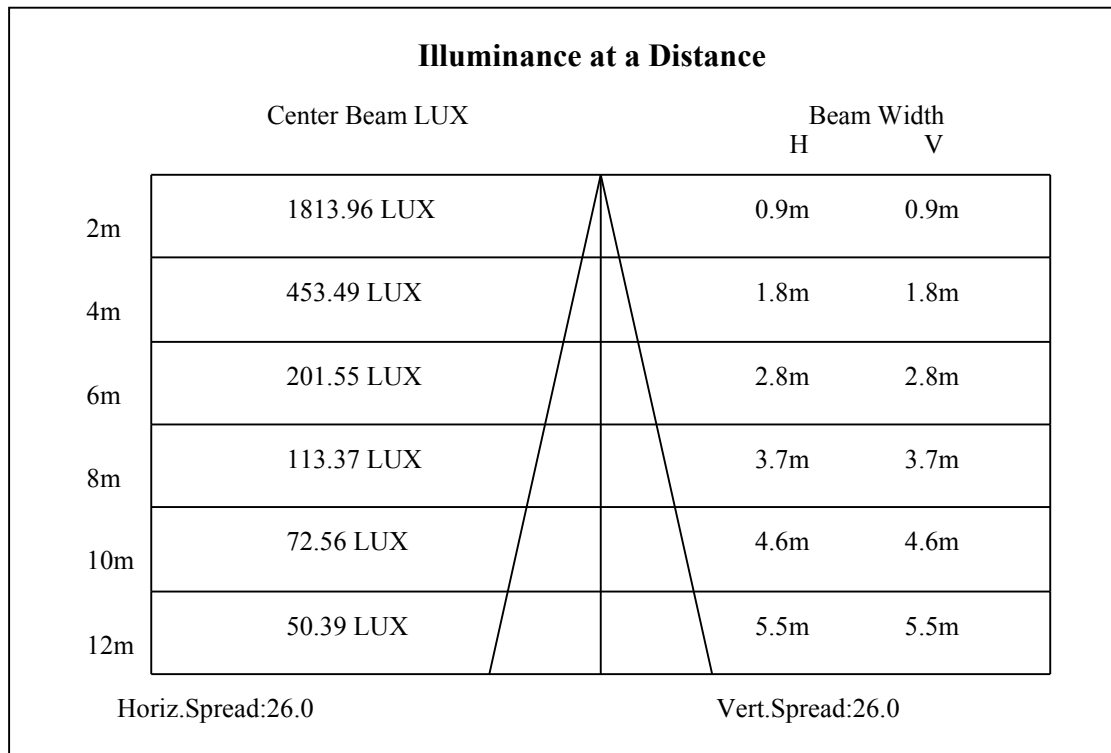
C90/C270: —————

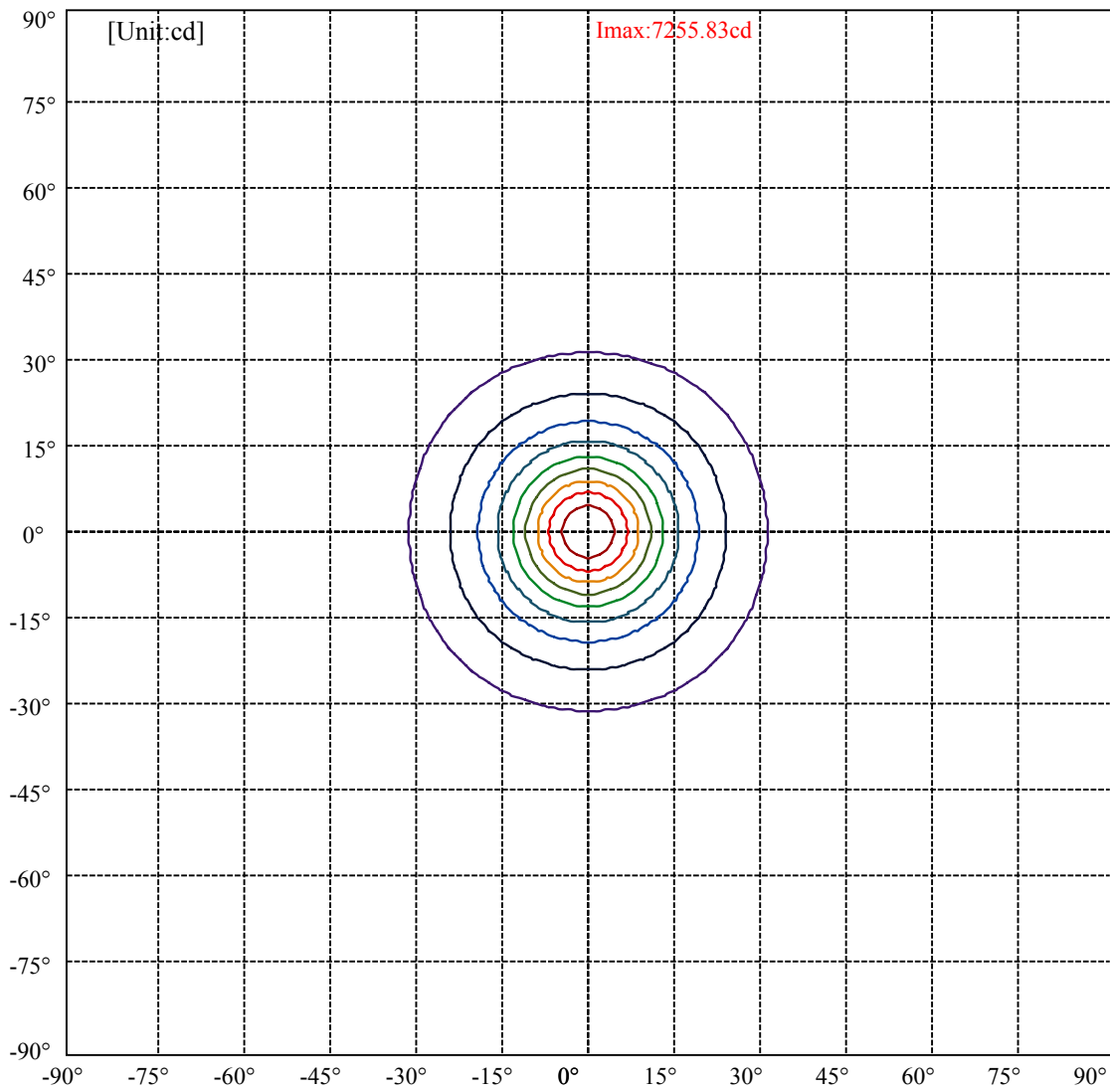
Field angle(10%Imax):C0/180Left:30.8 Right:30.8

:C90/270Left:30.8 Right:30.8

Beam Angle(50%Imax):C0/180Left:12.9 Right:12.9

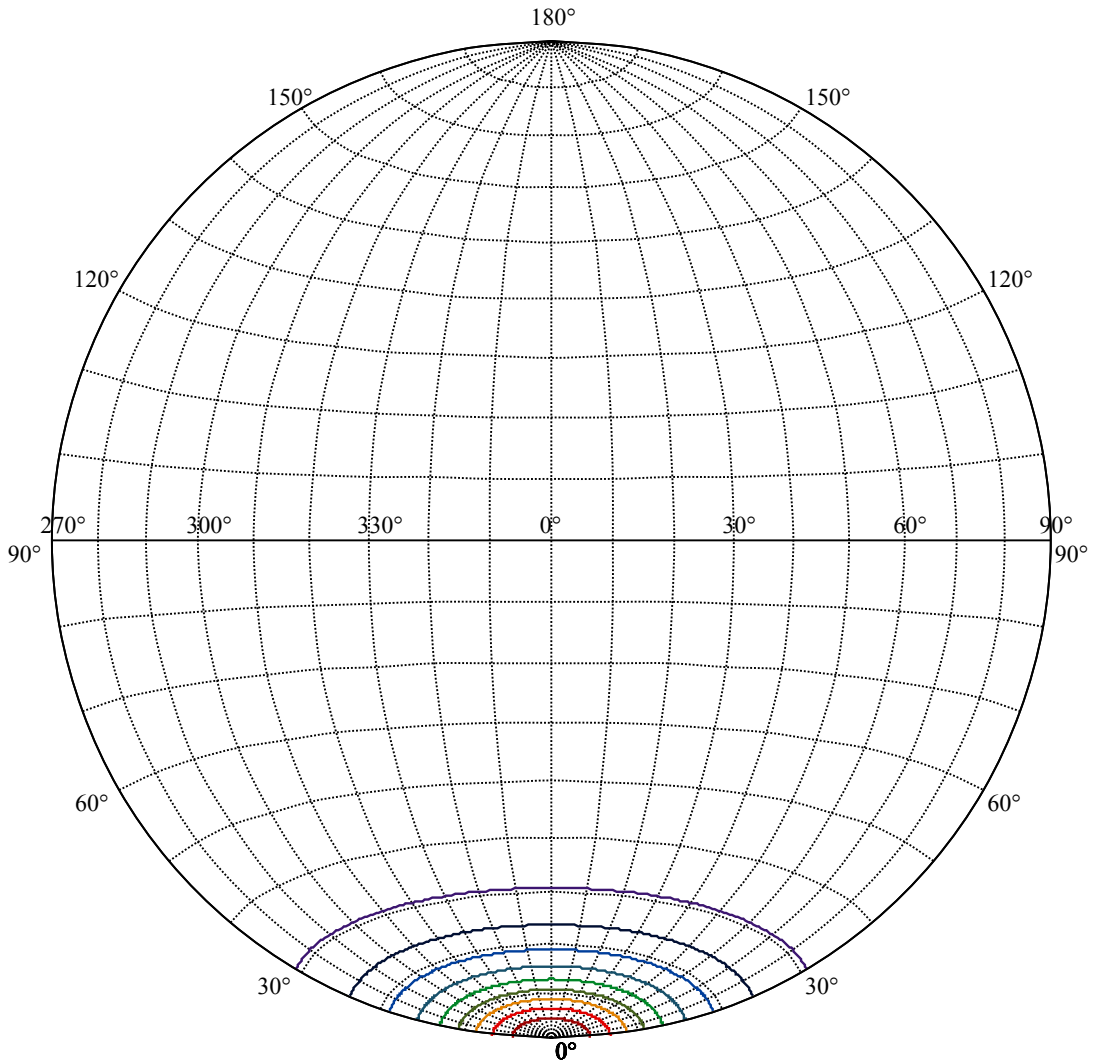
:C90/270Left:12.9 Right:12.9





(10%Imax) 725.583	—
(20%Imax) 1451.17	—
(30%Imax) 2176.75	—
(40%Imax) 2902.33	—
(50%Imax) 3627.91	—
(60%Imax) 4353.5	—
(70%Imax) 5079.08	—
(80%Imax) 5804.66	—
(90%Imax) 6530.24	—





House

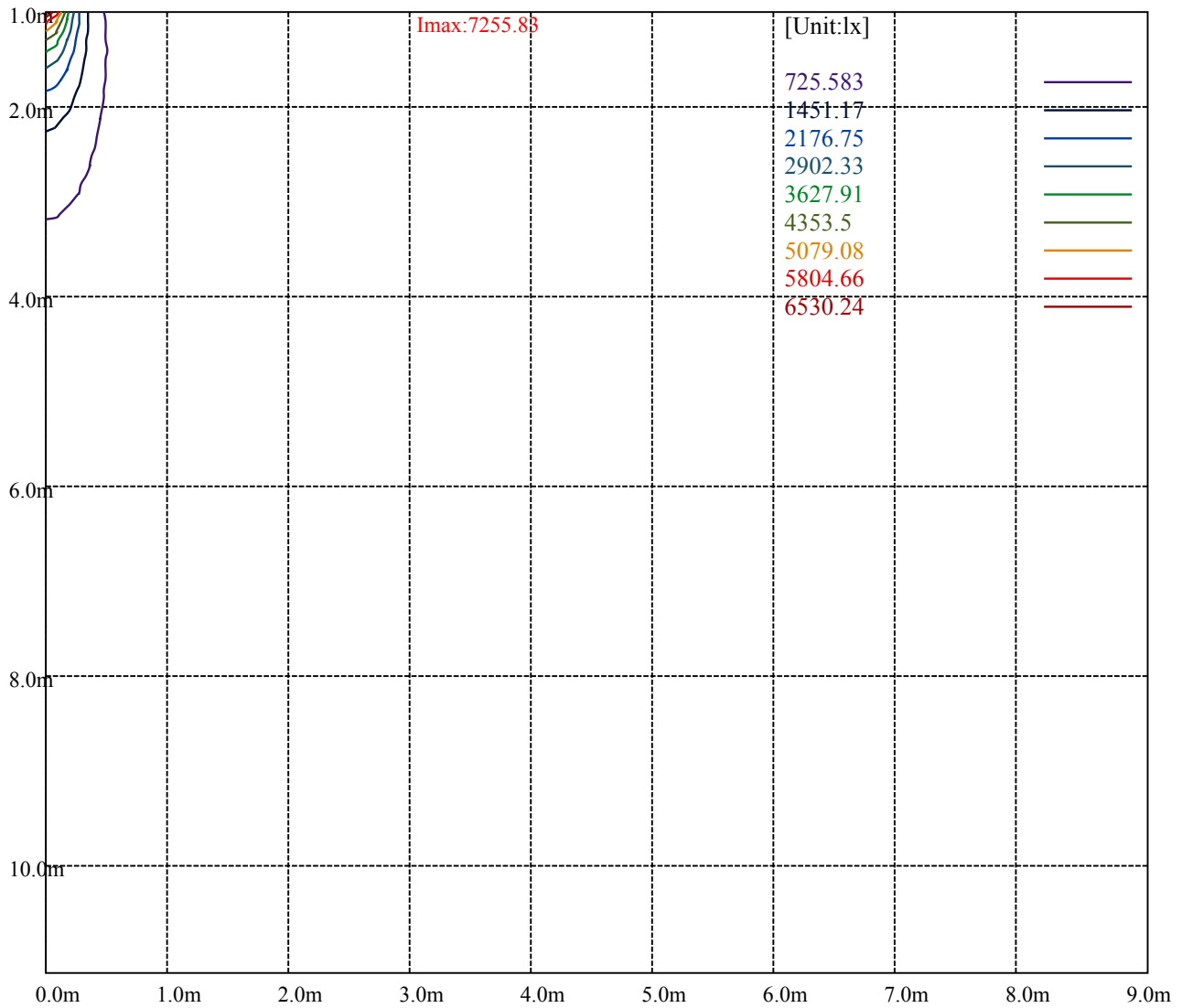
[Unit:cd]

Road

**Imax:7255.83**

(10%Imax) 725.583	—
(20%Imax) 1451.17	—
(30%Imax) 2176.75	—
(40%Imax) 2902.33	—
(50%Imax) 3627.91	—
(60%Imax) 4353.5	—
(70%Imax) 5079.08	—
(80%Imax) 5804.66	—
(90%Imax) 6530.24	—





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

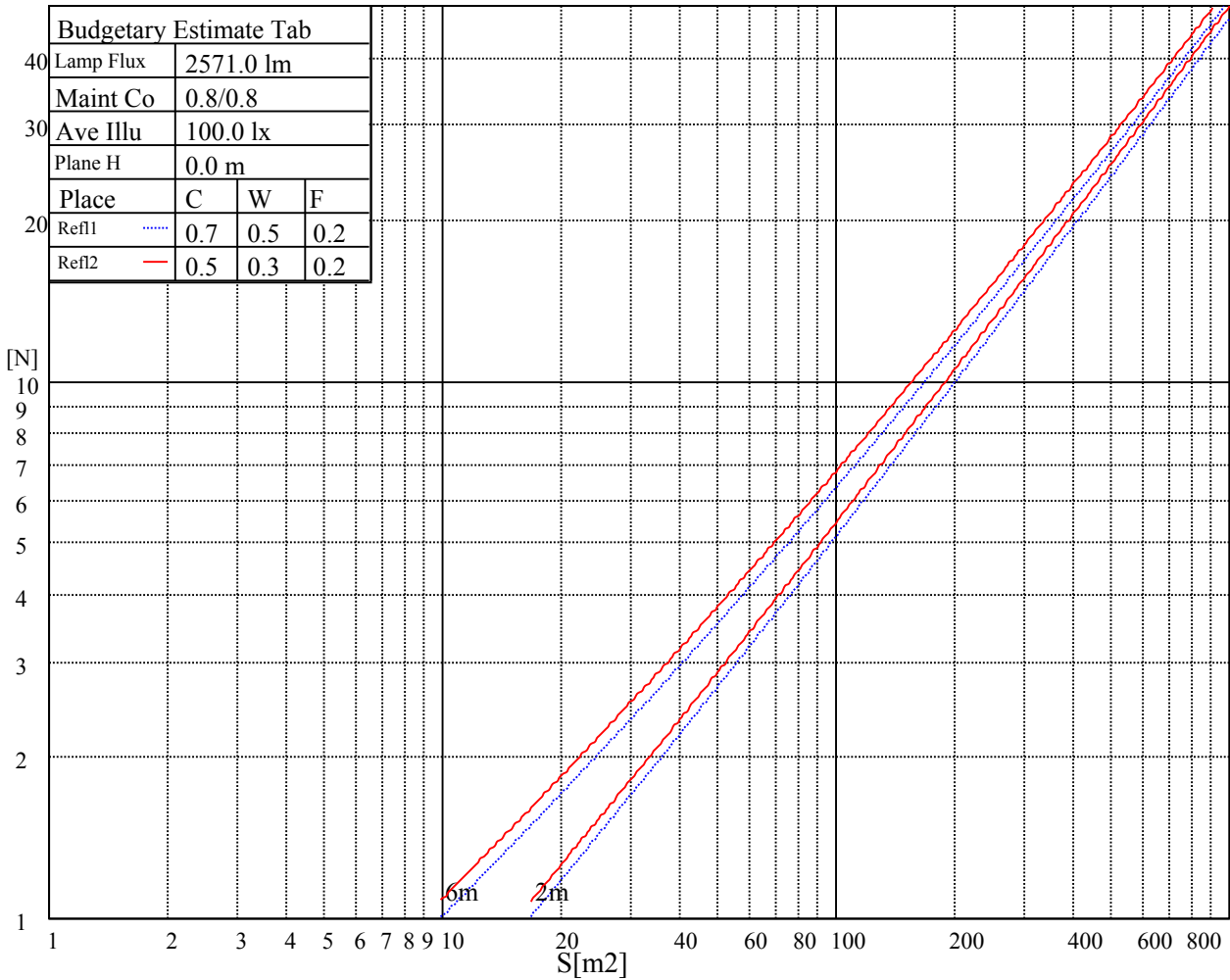
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

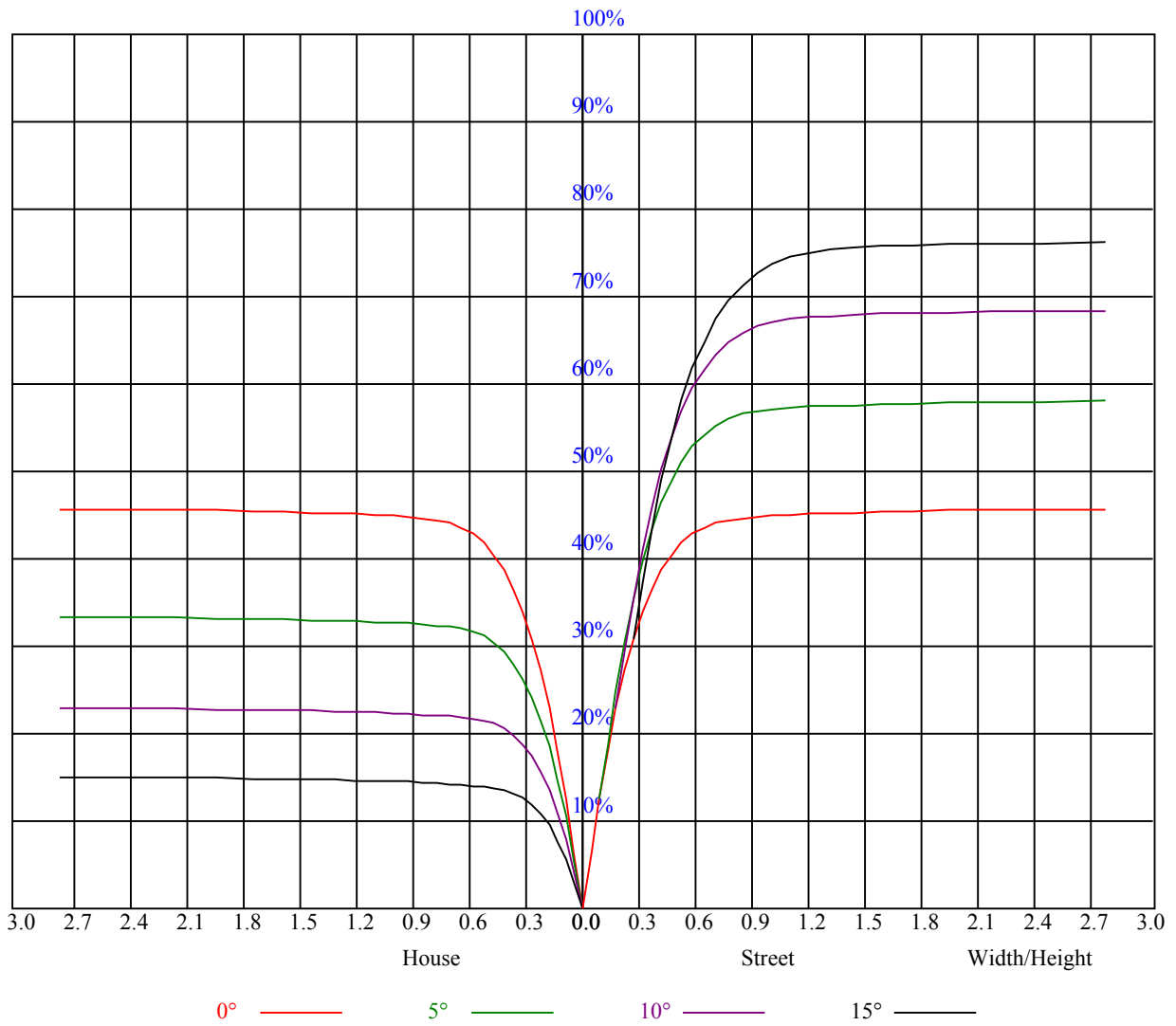


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字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

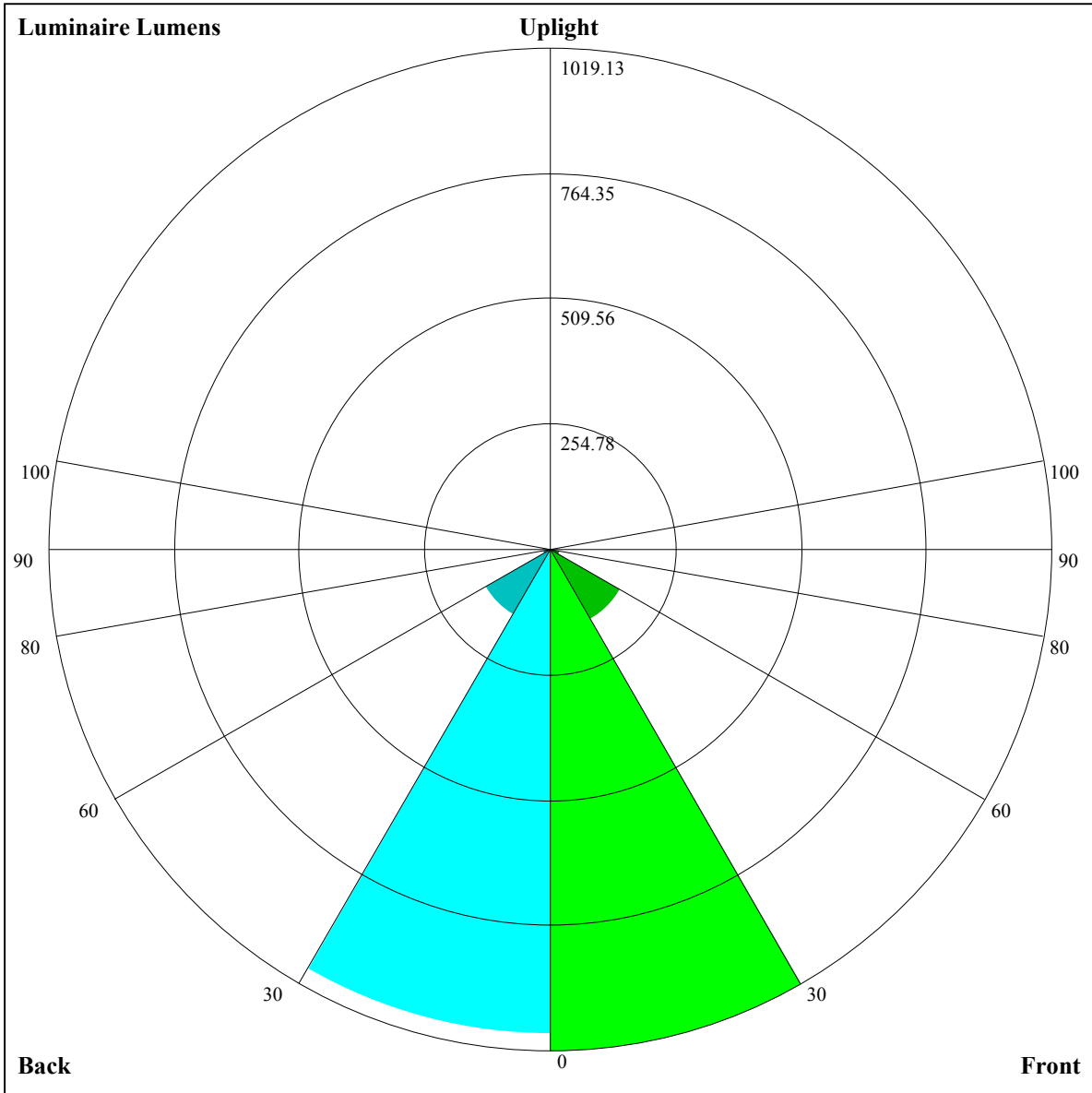
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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 RHOFC=20 CU															
0	1.10	1.10	1.10	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.00	0.99	1.01	0.99	0.97	0.97	0.95	0.94	0.94	0.92	0.91	0.90	0.89	0.89	0.87
2	0.97	0.93	0.90	0.95	0.92	0.89	0.92	0.90	0.87	0.89	0.87	0.86	0.87	0.85	0.84	0.82
3	0.91	0.87	0.84	0.90	0.86	0.83	0.88	0.85	0.82	0.85	0.83	0.81	0.83	0.81	0.79	0.78
4	0.87	0.82	0.79	0.85	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.76	0.80	0.78	0.76	0.74
5	0.82	0.78	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
6	0.78	0.74	0.70	0.78	0.73	0.70	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
7	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
8	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.62
9	0.69	0.64	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.60
10	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.57







Luminaire Lumens:

FL=1019.13,FM=163.54,FH=18.18,FVH=6.07

BL=986.25,BM=154.05,BH=17.74,BVH=6.06

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	7279.67	7266.21	7186.04	7034.46	6750.04	6495.47	6211.05	5885.67	5470.16
45.0	7222.91	7245.73	7174.33	6995.25	6785.74	6545.21	6173.60	5830.07	5430.95
90.0	7223.49	7028.61	6832.56	6517.71	6230.95	5907.90	5477.18	5126.63	4757.94
135.0	7311.27	7216.47	7046.75	6850.12	6521.22	6209.30	5880.98	5516.39	5076.30
180.0	7279.67	7195.40	7030.95	6860.65	6646.46	6294.74	5976.96	5552.09	5193.93
225.0	7222.91	7102.35	6958.38	6788.67	6562.19	6218.07	5906.15	5566.13	5211.49
270.0	7195.40	7290.79	7287.28	7203.01	7018.08	6851.87	6610.76	6328.68	5947.70
315.0	7311.27	7323.56	7257.43	7121.08	6927.37	6651.14	6376.08	5984.57	5639.29
360.0	7279.67	7266.21	7186.04	7034.46	6750.04	6495.47	6211.05	5885.67	5470.16
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5133.65	4690.64	4327.21	4005.92	3626.70	3353.98	3090.05	2842.50	2572.71
45.0	5109.66	4778.42	4421.43	4088.44	3730.28	3441.18	3180.17	2875.85	2642.35
90.0	4417.34	4069.71	3760.13	3469.27	3202.41	2891.66	2673.37	2467.37	2238.54
135.0	4740.97	4356.47	4042.21	3742.57	3392.02	3131.01	2896.92	2619.53	2382.82
180.0	4748.57	4418.51	4117.12	3822.75	3473.37	3208.85	2970.66	2746.52	2492.53
225.0	4753.84	4421.43	4122.97	3754.86	3486.24	3221.72	2928.52	2700.87	2496.04
270.0	5619.39	5262.40	4893.12	4454.21	4137.01	3828.60	3471.03	3195.97	2891.07
315.0	5265.33	4811.19	4458.30	4149.30	3752.52	3475.12	3197.73	2940.81	2646.45
360.0	5133.65	4690.64	4327.21	4005.92	3626.70	3353.98	3090.05	2842.50	2572.71
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2374.90	2199.92	2033.13	1847.03	1712.43	1589.53	1447.32	1165.89	1165.89
45.0	2438.11	2259.61	2055.95	1905.55	1739.93	1618.21	1505.84	1371.83	1271.17
90.0	2078.78	1891.51	1756.90	1633.42	1491.80	1389.38	1147.74	1147.74	1077.63
135.0	2251.42	2089.31	1941.84	1779.73	1660.34	1552.08	1417.47	1322.08	1197.43
180.0	2305.26	2129.69	1979.29	1810.16	1685.51	1563.78	1432.10	1333.20	1203.87
225.0	2263.71	2098.68	1938.91	1796.11	1640.44	1525.15	1420.40	1143.30	1143.30
270.0	2653.47	2437.52	2201.09	2031.96	1880.97	1743.44	1579.58	1471.90	1367.14
315.0	2434.59	2238.54	2065.32	1904.38	1728.81	1600.65	1458.44	1285.80	1157.63
360.0	2374.90	2199.92	2033.13	1847.03	1712.43	1589.53	1447.32	1165.89	1165.89
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1118.54	1021.86	929.40	811.47	716.37	624.32	537.00	437.28	367.05
45.0	1171.68	1074.53	952.22	857.41	759.10	665.46	553.68	472.34	398.60
90.0	981.36	886.97	790.70	674.24	582.83	498.85	421.83	335.33	273.53
135.0	1102.04	1003.72	881.99	785.43	687.11	596.40	490.48	412.64	343.00
180.0	1110.23	1012.50	915.35	790.11	691.21	596.40	489.89	412.64	344.17
225.0	1094.25	995.18	873.16	776.65	655.57	564.04	481.93	408.84	326.61
270.0	1265.31	1147.68	1054.05	956.32	834.00	740.95	644.98	538.47	458.29
315.0	1134.05	1041.29	949.12	833.83	739.26	648.90	559.48	457.29	383.91
360.0	1118.54	1021.86	929.40	811.47	716.37	624.32	537.00	437.28	367.05
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	303.21	248.31	190.55	152.39	123.13	95.45	79.18	64.67	56.47
45.0	317.84	303.21	303.21	157.84	127.93	104.64	83.22	70.46	60.86
90.0	208.22	166.91	133.26	101.71	84.33	71.22	61.57	52.85	47.40
135.0	310.81	310.81	166.15	131.79	105.98	82.93	70.11	58.46	51.68
180.0	296.77	296.77	171.30	137.47	111.08	86.32	72.33	59.93	52.79
225.0	268.56	217.88	176.04	133.31	107.56	88.08	73.80	60.86	53.61
270.0	385.14	305.55	305.55	236.78	158.77	120.15	97.91	81.29	69.06
315.0	318.71	260.43	199.62	160.12	128.22	99.14	82.11	67.13	58.64
360.0	303.21	248.31	190.55	152.39	123.13	95.45	79.18	64.67	56.47

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	49.98	43.89	40.09	37.04	34.65	32.77	31.02	29.96	29.26
45.0	53.78	46.99	42.60	39.15	36.34	33.59	32.01	30.55	29.73
90.0	43.07	39.68	36.34	34.29	32.66	31.02	30.08	29.26	28.91
135.0	46.35	41.26	38.10	35.58	33.53	31.60	30.49	29.67	29.03
180.0	47.23	41.90	38.57	35.87	33.77	31.72	30.43	29.55	28.91
225.0	46.70	42.37	38.98	35.52	33.47	31.78	30.20	29.26	28.62
270.0	57.88	51.38	46.29	41.14	37.92	34.76	32.77	31.13	29.79
315.0	52.09	46.88	41.84	38.62	36.05	34.00	31.95	30.72	29.85
360.0	49.98	43.89	40.09	37.04	34.65	32.77	31.02	29.96	29.26
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	28.56	28.32	28.15	28.03	27.86	27.68	27.39	26.69	25.81
45.0	29.09	28.56	28.32	28.09	27.86	27.56	27.21	26.51	25.52
90.0	28.62	28.32	27.97	27.68	27.10	26.45	25.28	24.17	23.06
135.0	28.44	28.21	28.03	27.68	27.39	26.86	25.98	25.11	23.99
180.0	28.32	27.92	27.80	27.45	27.21	26.86	26.16	25.34	24.40
225.0	28.03	27.62	27.45	27.15	26.80	26.51	25.93	25.05	23.94
270.0	28.68	28.09	27.56	27.21	27.04	26.80	26.57	26.28	25.46
315.0	29.14	28.50	28.27	27.97	27.68	27.51	27.04	26.34	25.46
360.0	28.56	28.32	28.15	28.03	27.86	27.68	27.39	26.69	25.81
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	24.81	23.41	22.30	21.07	19.96	18.67	17.73	16.80	16.27
45.0	24.29	23.12	22.00	20.48	19.37	18.38	17.15	16.50	15.98
90.0	21.89	20.31	19.25	17.97	17.09	16.39	15.74	15.27	14.92
135.0	22.59	21.42	20.13	19.08	17.91	16.97	16.33	15.86	15.27
180.0	23.17	22.06	21.01	19.90	18.79	17.85	17.15	16.62	16.04
225.0	22.82	21.48	20.37	19.31	18.43	17.32	16.56	16.04	15.63
270.0	24.58	23.41	22.30	21.19	19.78	18.79	17.91	16.80	16.21
315.0	24.17	23.00	21.83	20.60	19.14	18.26	17.32	16.50	15.86
360.0	24.81	23.41	22.30	21.07	19.96	18.67	17.73	16.80	16.27
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.80	15.27	14.86	14.51	14.10	13.81	13.46	13.11	12.76
45.0	15.39	14.98	14.57	14.16	13.81	13.52	13.23	12.82	12.52
90.0	14.46	14.10	13.81	13.46	13.11	12.82	12.47	12.17	11.82
135.0	14.86	14.40	14.05	13.75	13.34	13.05	12.70	12.35	12.11
180.0	15.68	15.22	14.86	14.57	14.10	13.81	13.52	13.11	12.82
225.0	15.10	14.75	14.40	14.10	13.69	13.34	12.99	12.70	12.41
270.0	15.68	15.27	14.81	14.46	14.10	13.81	13.40	13.05	12.76
315.0	15.39	14.86	14.51	14.16	13.75	13.46	13.11	12.82	12.41
360.0	15.80	15.27	14.86	14.51	14.10	13.81	13.46	13.11	12.76
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.47	12.11	11.82	11.53	11.29	11.06	10.83	10.65	10.48
45.0	12.17	11.82	11.59	11.24	11.00	10.77	10.53	10.36	10.24
90.0	11.53	11.29	11.06	10.83	10.59	10.42	10.18	10.12	10.12
135.0	11.76	11.53	11.24	10.94	10.77	10.48	10.36	10.18	10.07
180.0	12.52	12.23	12.00	11.70	11.47	11.29	11.12	10.77	10.18
225.0	12.06	11.82	11.53	11.35	11.06	10.77	10.53	10.42	10.24
270.0	12.41	12.17	11.82	11.53	11.29	10.94	10.77	10.53	10.30
315.0	12.17	11.82	11.59	11.29	11.06	10.77	10.53	10.36	10.18
360.0	12.47	12.11	11.82	11.53	11.29	11.06	10.83	10.65	10.48

Intensity data(cd)

C/ $\gamma$ (°)	90.0
0.0	10.30
45.0	10.12
90.0	10.12
135.0	10.07
180.0	10.18
225.0	10.18
270.0	10.18
315.0	10.07
360.0	10.30