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NT

Client:

LumCAT: 2-2689-L

Luminaire: 92.70.412.00

Report No: 2024229-B011

Ballast type: AC

Test No: 2024229-C011

Voltage(V): 35.400

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.541

Lamp flux(lm): 2609.0

Power (W): 19.151

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2166.48, Efficiency(%): 83.04% , Luminous Efficacy(lm/W): 113.13

Central intensity(cd): 4092.684, Maximum intensity(cd): 4092.684

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=42.8

[C90/270]Total=42.8

Field angle(10%Imax): [C0/180]Total=66.6

[C90/270]Total=66.6

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(%): 83.04%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.872%

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	4092.683	0.000	0	0.00%	0.00%
1.0	4089.172	3.915	3.915	0.15%	0.18%
2.0	4075.346	11.718	15.633	0.45%	0.72%
3.0	4051.279	19.436	35.07	0.74%	1.62%
4.0	4016.604	27.006	62.075	1.04%	2.87%
5.0	3967.811	34.349	96.424	1.32%	4.45%
6.0	3911.117	41.406	137.83	1.59%	6.36%
7.0	3839.573	48.108	185.938	1.84%	8.58%
8.0	3756.764	54.366	240.304	2.08%	11.09%
9.0	3671.102	60.199	300.503	2.31%	13.87%
10.0	3565.249	65.486	365.989	2.51%	16.89%
11.0	3457.787	70.175	436.163	2.69%	20.13%
12.0	3337.377	74.281	510.444	2.85%	23.56%
13.0	3212.432	77.730	588.174	2.98%	27.15%
14.0	3084.341	80.598	668.772	3.09%	30.87%
15.0	2949.154	82.830	751.603	3.17%	34.69%
16.0	2816.161	84.478	836.081	3.24%	38.59%
17.0	2685.802	85.680	921.761	3.28%	42.55%
18.0	2546.226	86.265	1008.026	3.31%	46.53%
19.0	2403.358	86.113	1094.138	3.30%	50.50%
20.0	2261.734	85.384	1179.523	3.27%	54.44%
21.0	2106.649	83.882	1263.404	3.22%	58.32%
22.0	1964.513	81.812	1345.216	3.14%	62.09%
23.0	1804.892	79.092	1424.308	3.03%	65.74%
24.0	1644.116	75.408	1499.716	2.89%	69.22%
25.0	1456.815	70.508	1570.225	2.70%	72.48%
26.0	1343.772	66.108	1636.333	2.53%	75.53%
27.0	1181.503	61.781	1698.114	2.37%	78.38%
28.0	1053.917	56.596	1754.71	2.17%	80.99%
29.0	911.532	51.422	1806.132	1.97%	83.37%
30.0	780.807	45.693	1851.825	1.75%	85.48%
31.0	647.976	39.761	1891.586	1.52%	87.31%
32.0	532.803	33.828	1925.414	1.30%	88.87%
33.0	437.090	28.573	1953.987	1.10%	90.19%
34.0	355.275	23.979	1977.966	0.92%	91.30%
35.0	286.482	19.931	1997.897	0.76%	92.22%
36.0	230.396	16.457	2014.354	0.63%	92.98%
37.0	184.068	13.517	2027.872	0.52%	93.60%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	146.021	11.018	2038.89	0.42%	94.11%
39.0	108.596	8.691	2047.581	0.33%	94.51%
40.0	89.627	6.913	2054.494	0.26%	94.83%
41.0	74.806	5.855	2060.349	0.22%	95.10%
42.0	64.792	5.072	2065.421	0.19%	95.34%
43.0	57.155	4.517	2069.938	0.17%	95.54%
44.0	51.924	4.117	2074.055	0.16%	95.73%
45.0	48.003	3.840	2077.896	0.15%	95.91%
46.0	44.887	3.633	2081.528	0.14%	96.08%
47.0	42.385	3.471	2084.999	0.13%	96.24%
48.0	40.103	3.335	2088.334	0.13%	96.39%
49.0	38.025	3.208	2091.542	0.12%	96.54%
50.0	36.321	3.100	2094.642	0.12%	96.68%
51.0	34.616	3.001	2097.643	0.12%	96.82%
52.0	32.897	2.897	2100.54	0.11%	96.96%
53.0	31.383	2.796	2103.337	0.11%	97.09%
54.0	29.949	2.703	2106.04	0.10%	97.21%
55.0	28.552	2.611	2108.651	0.10%	97.33%
56.0	27.271	2.522	2111.174	0.10%	97.45%
57.0	25.991	2.435	2113.609	0.09%	97.56%
58.0	24.770	2.347	2115.956	0.09%	97.67%
59.0	23.599	2.261	2118.218	0.09%	97.77%
60.0	22.334	2.170	2120.388	0.08%	97.87%
61.0	21.222	2.079	2122.466	0.08%	97.97%
62.0	20.029	1.988	2124.454	0.08%	98.06%
63.0	19.005	1.898	2126.352	0.07%	98.15%
64.0	18.010	1.816	2128.169	0.07%	98.23%
65.0	17.228	1.744	2129.913	0.07%	98.31%
66.0	16.737	1.695	2131.607	0.06%	98.39%
67.0	16.547	1.674	2133.281	0.06%	98.47%
68.0	16.445	1.671	2134.952	0.06%	98.54%
69.0	16.518	1.682	2136.634	0.06%	98.62%
70.0	16.555	1.699	2138.332	0.07%	98.70%
71.0	16.525	1.710	2140.042	0.07%	98.78%
72.0	16.284	1.706	2141.748	0.07%	98.86%
73.0	15.984	1.687	2143.435	0.06%	98.94%
74.0	15.852	1.674	2145.109	0.06%	99.01%
75.0	15.465	1.655	2146.764	0.06%	99.09%

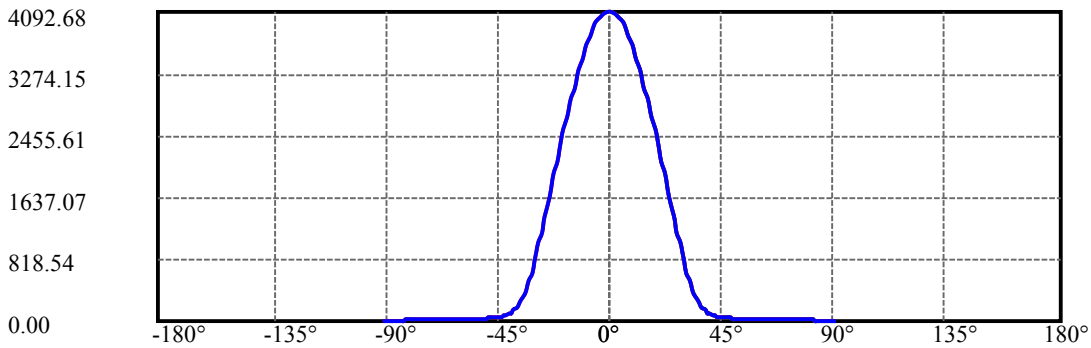
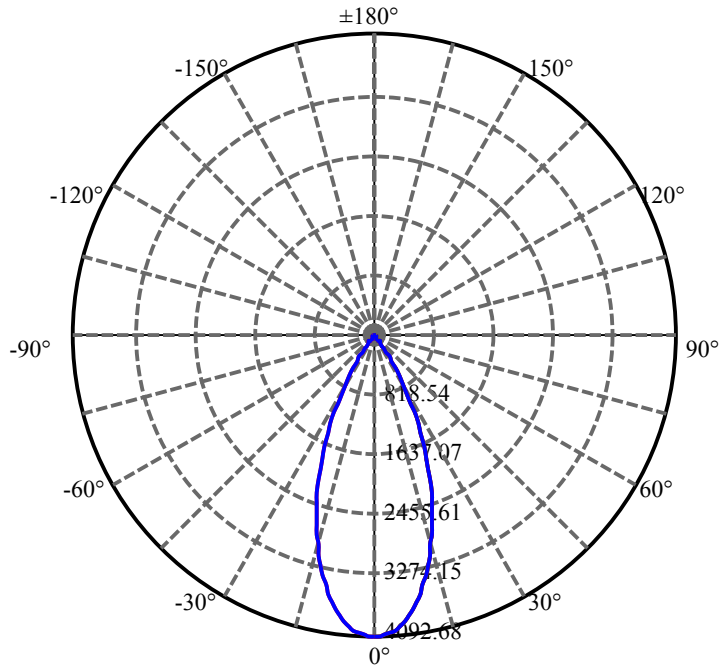
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.128	1.624	2148.388	0.06%	99.16%
77.0	14.711	1.591	2149.979	0.06%	99.24%
78.0	14.031	1.539	2151.517	0.06%	99.31%
79.0	13.416	1.475	2152.992	0.06%	99.38%
80.0	13.043	1.426	2154.418	0.05%	99.44%
81.0	12.773	1.396	2155.814	0.05%	99.51%
82.0	12.473	1.369	2157.183	0.05%	99.57%
83.0	12.012	1.331	2158.514	0.05%	99.63%
84.0	11.558	1.284	2159.798	0.05%	99.69%
85.0	10.958	1.229	2161.027	0.05%	99.75%
86.0	10.402	1.168	2162.195	0.04%	99.80%
87.0	9.985	1.116	2163.311	0.04%	99.85%
88.0	9.693	1.078	2164.389	0.04%	99.90%
89.0	9.539	1.054	2165.443	0.04%	99.95%
90.0	9.400	1.038	2166.481	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1851.82	70.98%	85.48%
0-40	2054.49	78.75%	94.83%
0-60	2120.39	81.27%	97.87%
0-90	2165.44	83.00%	99.95%
0-120	2165.44	83.00%	99.95%
0-180	2166.48	83.04%	100.00%
60-90	45.06	1.73%	2.08%
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%
0-27.62	1733.19	66.43%	80.00%

ZONAL LUMEN SUMMARY

0-10	365.99
10-20	813.53
20-30	672.30
30-40	202.67
40-50	40.15
50-60	25.75
60-70	17.94
70-80	16.09
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: —————

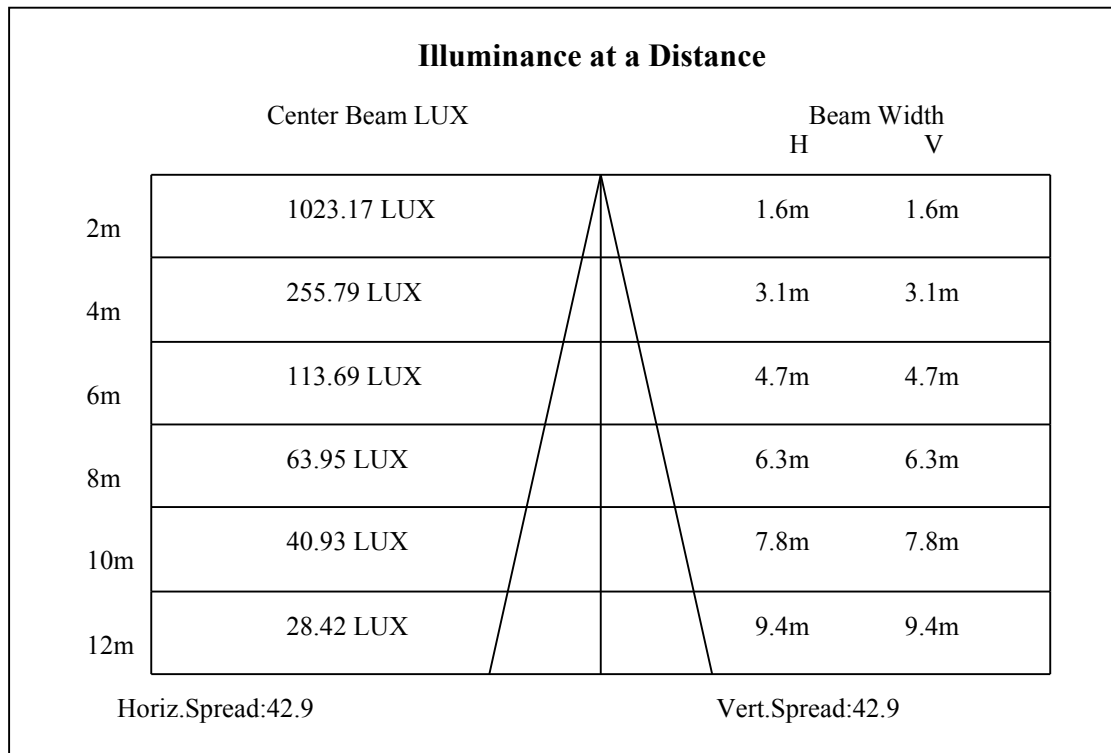
C90/C270: —————

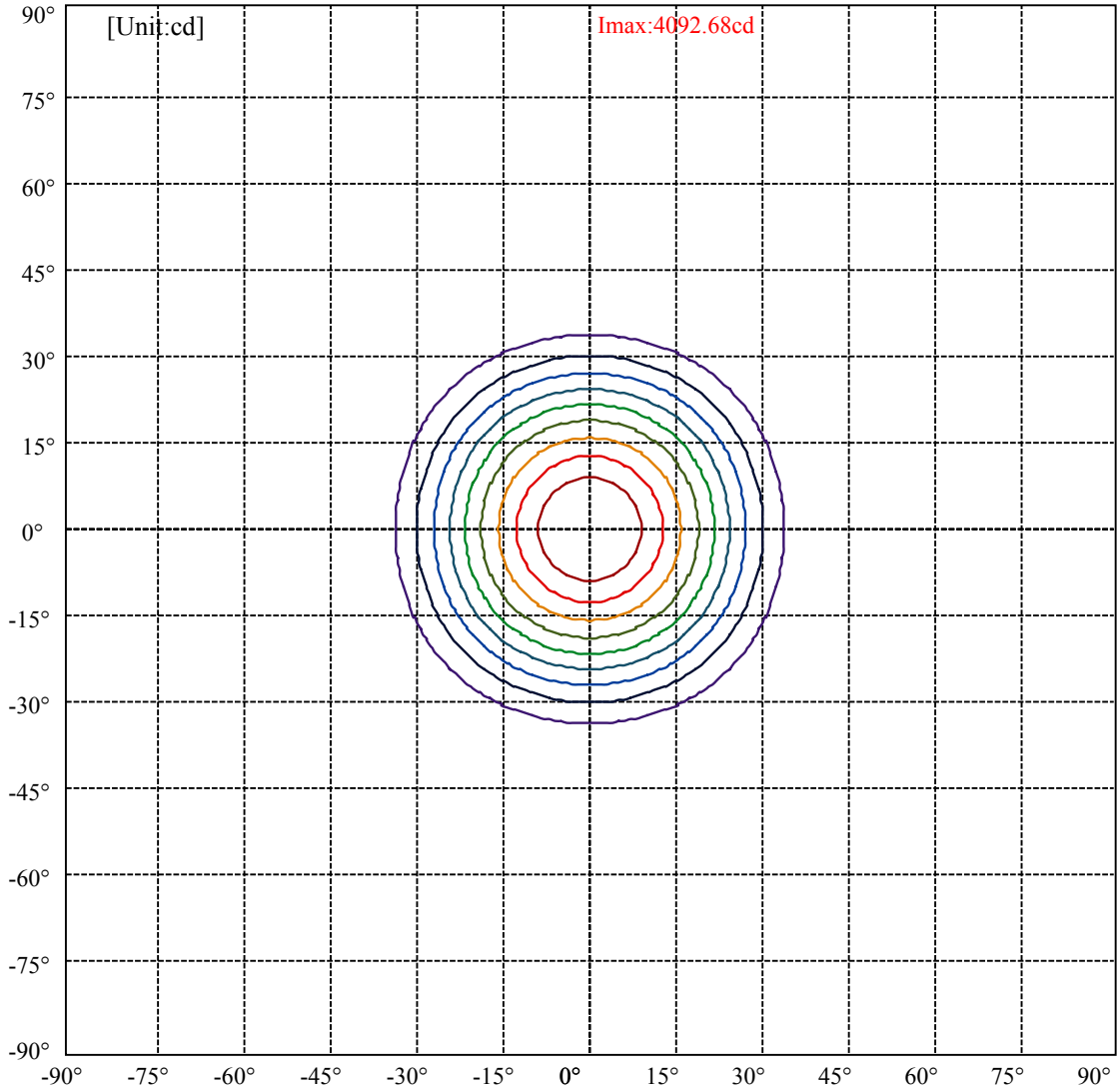
Field angle(10%Imax):C0/180Left:33.3 Right:33.3

:C90/270Left:33.3 Right:33.3

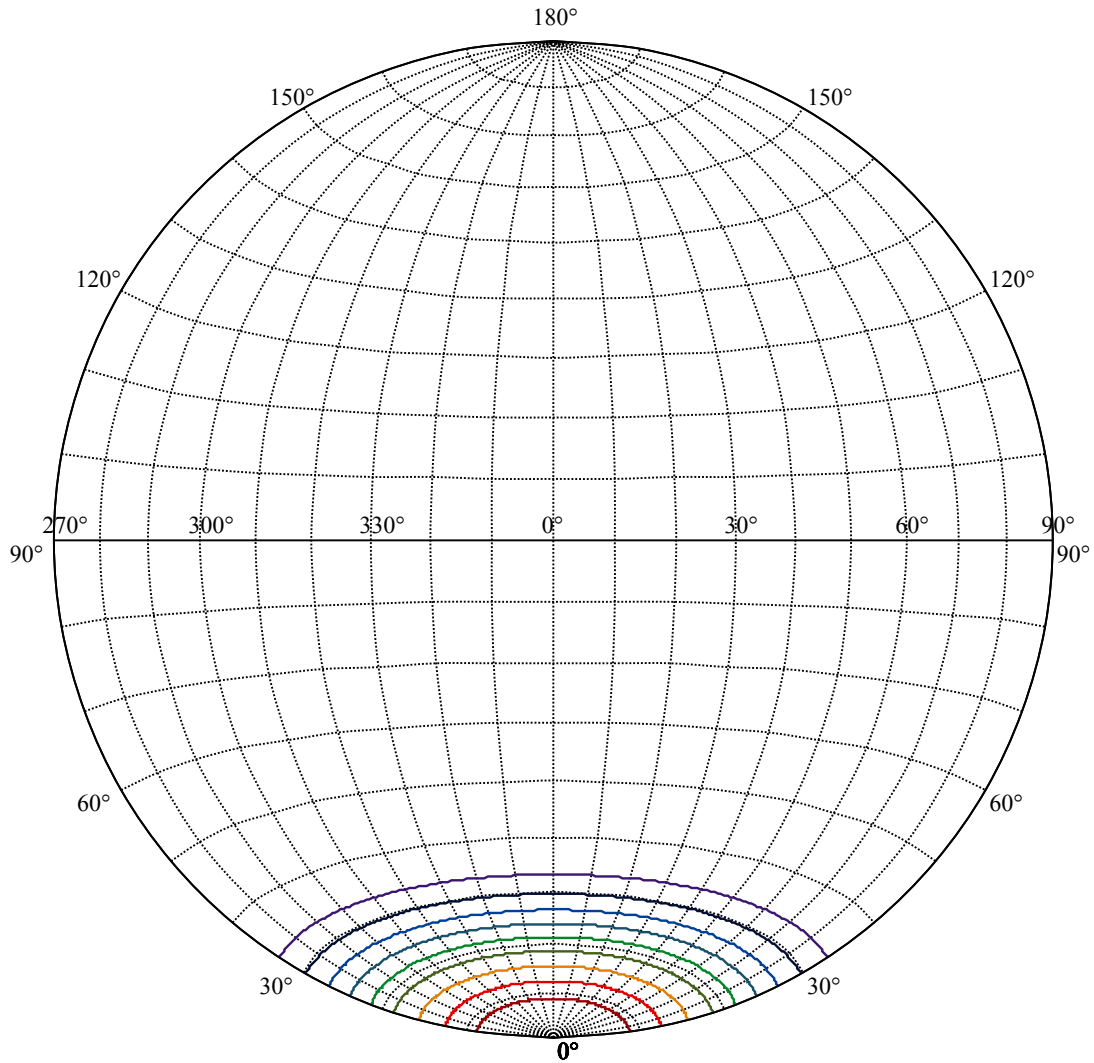
Beam Angle(50%Imax):C0/180Left:21.4 Right:21.4

:C90/270Left:21.4 Right:21.4





(10%Imax) 409.268	—
(20%Imax) 818.537	—
(30%Imax) 1227.81	—
(40%Imax) 1637.07	—
(50%Imax) 2046.34	—
(60%Imax) 2455.61	—
(70%Imax) 2864.88	—
(80%Imax) 3274.15	—
(90%Imax) 3683.42	—



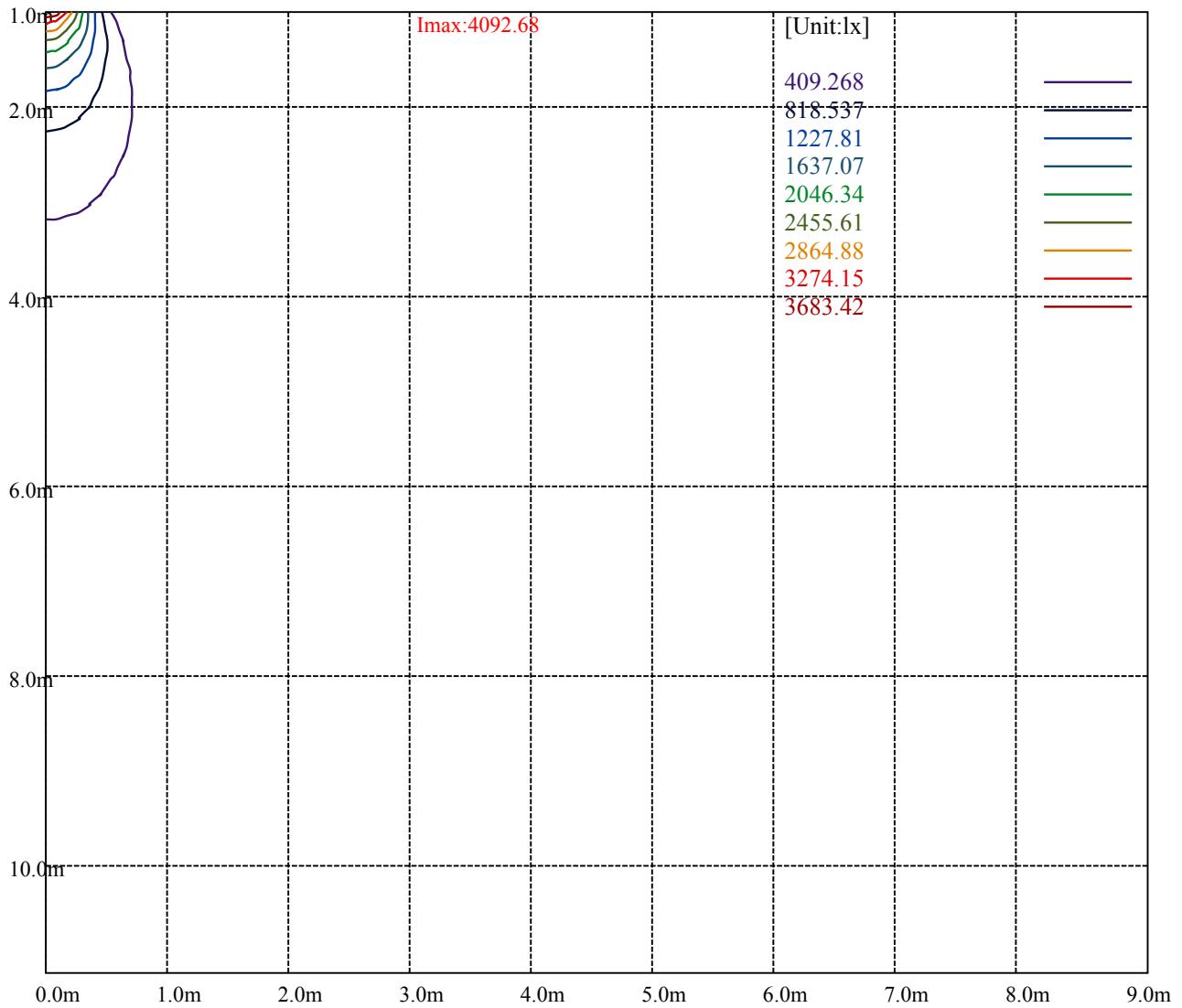
House

[Unit:cd]

Road

I_{max}:4092.68

(10%I _{max})	409.268	—
(20%I _{max})	818.537	—
(30%I _{max})	1227.81	—
(40%I _{max})	1637.07	—
(50%I _{max})	2046.34	—
(60%I _{max})	2455.61	—
(70%I _{max})	2864.88	—
(80%I _{max})	3274.15	—
(90%I _{max})	3683.42	—



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

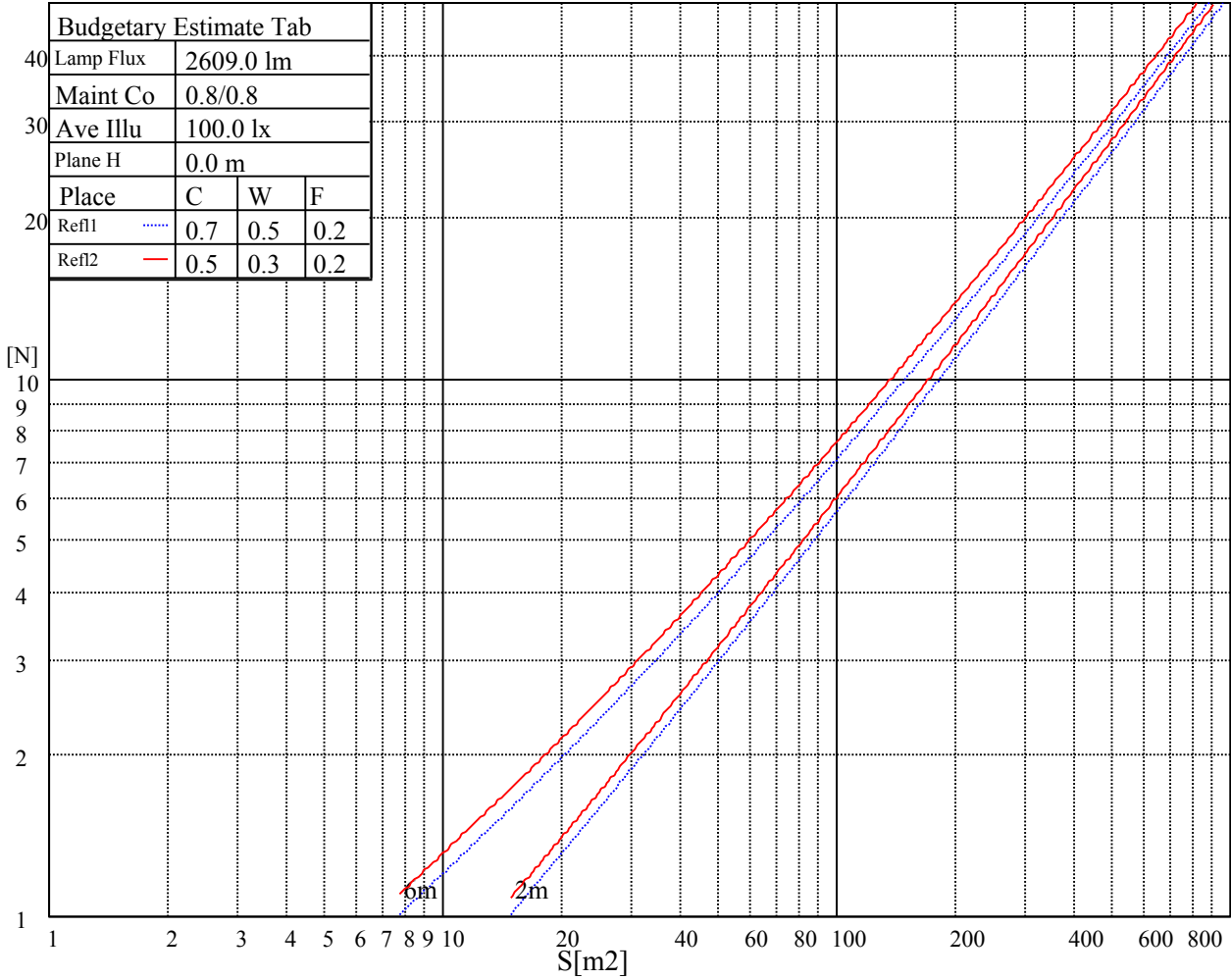
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

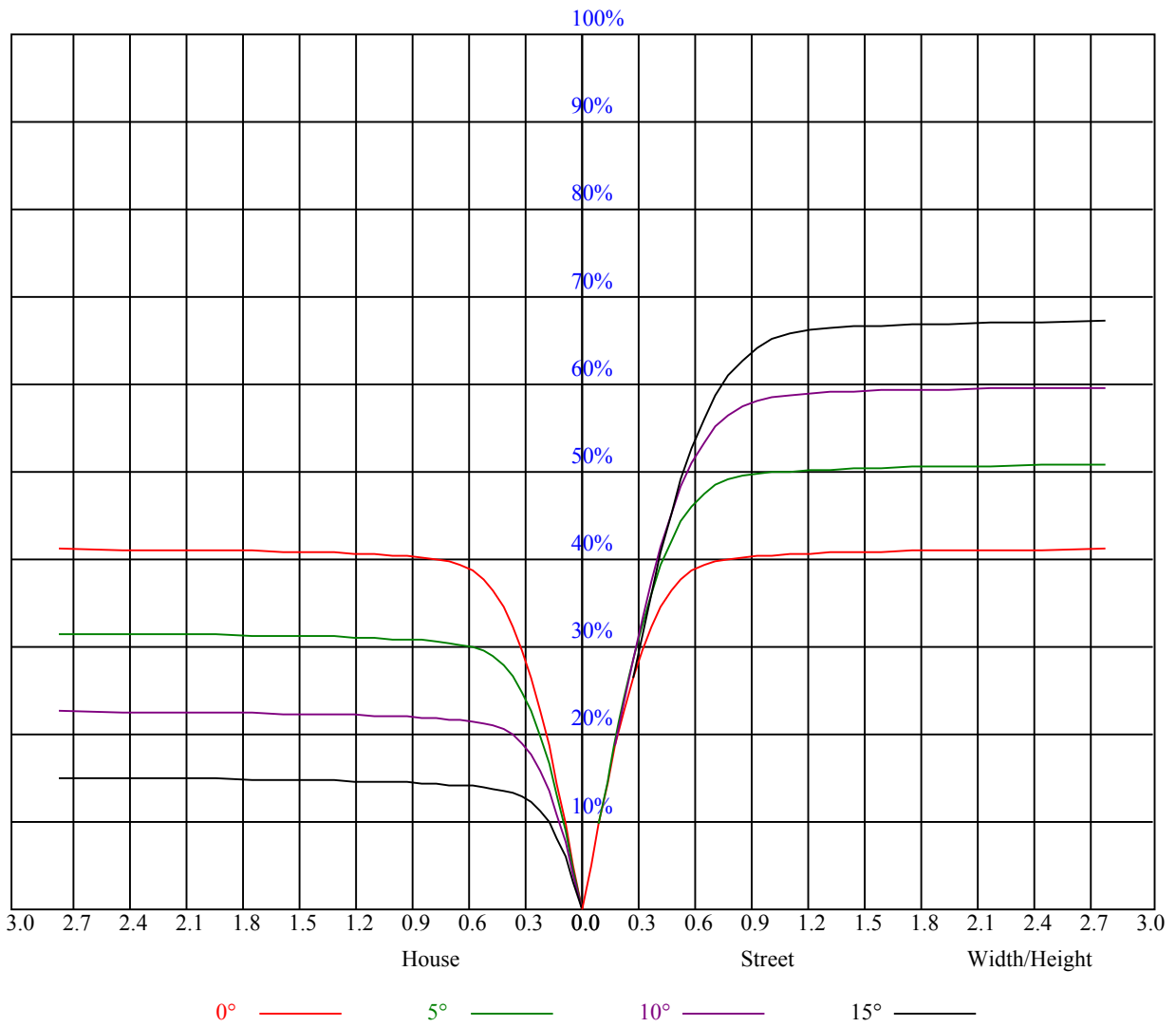


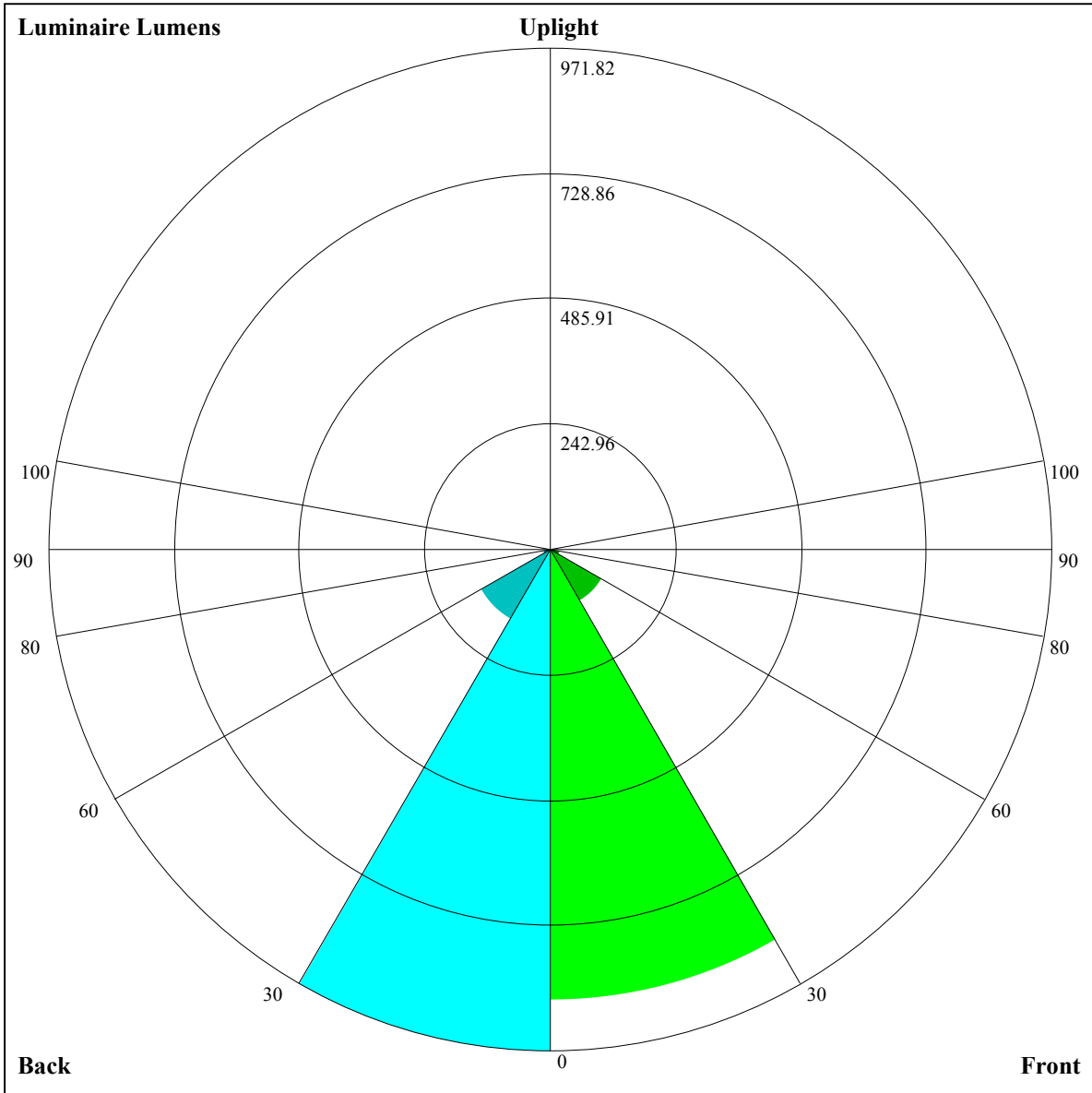
Illumination assessment according UGR										
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30
Rf of Wall	50	30	50	30	30	50	30	50	30	30
Rf of Floor	20	20	20	20	20	20	20	20	20	20
Room dimensions	Viewed crosswise					Viewed endwise				
X	Y									
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	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
	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
	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
8H	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
12H	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	0.99	0.99	0.99	0.97	0.97	0.97	0.92	0.92	0.92	0.88	0.88	0.88	0.85	0.85	0.85	0.83
1	0.92	0.90	0.88	0.90	0.89	0.87	0.87	0.86	0.84	0.84	0.83	0.82	0.81	0.80	0.80	0.78
2	0.87	0.83	0.81	0.85	0.82	0.80	0.82	0.80	0.78	0.80	0.78	0.76	0.78	0.76	0.75	0.74
3	0.82	0.78	0.75	0.80	0.77	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.74	0.72	0.71	0.69
4	0.77	0.73	0.70	0.76	0.72	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.71	0.69	0.67	0.66
5	0.73	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.66	0.64	0.68	0.66	0.64	0.62
6	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.66	0.63	0.61	0.65	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	0.56
8	0.63	0.59	0.56	0.63	0.58	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	0.58	0.55	0.53	0.58	0.55	0.52	0.51
10	0.58	0.53	0.51	0.57	0.53	0.51	0.57	0.53	0.50	0.56	0.53	0.50	0.56	0.52	0.50	0.49





Luminaire Lumens:

FL=872.96,FM=116.54,FH=17.2,FVH=5.9

BL=971.82,BM=154.69,BH=16.49,BVH=6.17

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	4075.57	4048.65	4000.07	3950.91	3886.54	3794.07	3715.07	3626.70	3503.80
45.0	4093.71	4089.61	4072.64	4036.36	3993.63	3938.62	3875.42	3780.61	3694.58
90.0	4099.56	4091.37	4069.13	4036.36	3992.46	3935.11	3849.67	3769.49	3681.71
135.0	4101.90	4107.17	4104.83	4087.86	4063.28	4029.33	3983.69	3930.43	3849.67
180.0	4075.57	4091.37	4097.80	4098.39	4090.20	4072.05	4046.89	4012.95	3967.88
225.0	4093.71	4095.46	4092.54	4077.91	4058.01	4022.31	3978.42	3923.41	3839.72
270.0	4099.56	4100.14	4094.29	4082.59	4062.69	4023.48	3977.83	3905.85	3835.62
315.0	4101.90	4089.61	4071.47	4039.87	3986.03	3927.50	3861.96	3767.15	3681.12
360.0	4075.57	4048.65	4000.07	3950.91	3886.54	3794.07	3715.07	3626.70	3503.80
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3398.46	3283.17	3160.86	3003.43	2878.78	2757.05	2631.82	2503.65	2339.20
45.0	3600.95	3474.54	3362.76	3212.94	3086.54	2959.54	2831.38	2674.54	2549.88
90.0	3583.98	3452.89	3339.35	3215.87	3060.20	2934.38	2775.78	2652.88	2528.23
135.0	3773.59	3665.32	3570.52	3466.35	3324.14	3202.41	3076.59	2915.65	2791.00
180.0	3900.00	3830.94	3754.86	3649.52	3548.28	3415.43	3303.07	3180.76	3051.42
225.0	3764.23	3682.29	3565.25	3458.74	3344.62	3224.06	3066.05	2940.81	2815.58
270.0	3758.96	3671.17	3555.89	3452.30	3335.84	3214.11	3063.71	2940.81	2813.24
315.0	3588.66	3461.66	3352.81	3239.86	3121.06	2967.73	2844.84	2720.18	2597.87
360.0	3398.46	3283.17	3160.86	3003.43	2878.78	2757.05	2631.82	2503.65	2339.20
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2202.85	2028.45	1891.51	1715.94	1573.73	1323.25	1141.36	1105.20	965.74
45.0	2421.72	2290.63	2120.33	1980.46	1847.61	1711.26	1533.93	1390.55	1205.04
90.0	2399.48	2230.35	2092.82	1955.88	1818.94	1645.13	1501.75	1140.25	1140.25
135.0	2666.34	2539.35	2373.15	2237.37	2099.85	1957.64	1786.75	1642.20	1496.48
180.0	2892.24	2767.59	2645.86	2518.87	2343.88	2211.04	2075.85	1934.23	1767.44
225.0	2661.08	2532.91	2397.73	2223.33	2086.39	1949.44	1779.14	1641.61	1502.92
270.0	2689.17	2536.42	2411.77	2233.28	2091.65	1962.32	1793.77	1645.71	1517.55
315.0	2436.94	2301.16	2160.71	1988.07	1854.05	1679.07	1540.37	1154.77	1154.77
360.0	2202.85	2028.45	1891.51	1715.94	1573.73	1323.25	1141.36	1105.20	965.74
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	828.39	677.11	567.26	466.48	377.41	286.82	229.00	181.77	144.20
45.0	1058.15	914.77	753.24	642.05	541.98	427.86	347.68	296.77	296.77
90.0	1032.10	894.98	740.89	630.46	526.94	409.72	331.24	265.93	212.20
135.0	1312.72	1167.58	1024.79	855.07	733.35	622.15	495.74	403.86	324.86
180.0	1619.96	1443.22	1299.84	1151.20	973.29	831.66	704.67	587.62	457.12
225.0	1146.75	1146.75	1040.71	900.49	738.44	621.04	513.07	416.80	317.95
270.0	1370.66	1238.39	1051.12	914.77	746.81	619.23	518.57	402.69	322.52
315.0	1083.31	948.53	814.40	685.94	545.61	443.95	356.75	286.76	216.24
360.0	828.39	677.11	567.26	466.48	377.41	286.82	229.00	181.77	144.20
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	110.55	91.53	77.48	65.78	59.22	53.20	49.57	46.70	44.30
45.0	166.20	132.26	106.45	87.37	73.74	62.85	57.18	52.03	48.81
90.0	159.71	127.70	102.65	81.11	69.52	61.51	55.95	50.74	47.58
135.0	307.30	231.87	149.47	118.98	95.68	76.37	65.66	58.46	52.03
180.0	368.17	311.98	311.98	172.64	137.88	110.96	91.47	74.56	65.25
225.0	254.81	203.72	154.44	124.01	101.36	81.23	70.23	62.03	54.66
270.0	304.38	235.44	158.95	130.10	106.86	88.78	71.63	62.09	55.42
315.0	172.06	138.05	106.75	88.78	72.74	63.56	56.65	50.62	47.34
360.0	110.55	91.53	77.48	65.78	59.22	53.20	49.57	46.70	44.30

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	41.55	39.62	37.86	36.23	34.29	32.89	31.49	29.85	28.62
45.0	46.17	43.37	41.32	39.33	37.10	35.46	33.88	32.42	30.72
90.0	45.00	42.14	40.03	37.75	36.05	34.53	33.07	31.19	29.85
135.0	48.46	45.53	42.55	40.44	38.04	36.28	34.70	33.24	31.49
180.0	56.88	52.03	48.46	44.95	42.72	40.67	38.80	36.64	35.00
225.0	50.33	47.17	44.65	41.90	39.91	38.04	36.34	34.24	32.71
270.0	50.86	46.76	44.30	42.14	39.68	37.86	35.82	34.24	32.71
315.0	44.77	42.49	39.91	38.10	36.40	34.82	32.83	31.37	29.96
360.0	41.55	39.62	37.86	36.23	34.29	32.89	31.49	29.85	28.62
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	27.45	25.98	24.87	23.76	22.24	21.13	20.13	19.08	17.79
45.0	29.44	28.21	26.98	25.52	24.40	23.29	21.83	20.66	19.37
90.0	28.62	27.33	25.98	24.93	23.82	22.71	21.24	20.13	18.90
135.0	30.14	28.85	27.68	26.39	24.99	23.88	22.47	21.30	20.25
180.0	33.47	31.95	30.26	28.97	27.68	26.16	25.11	24.05	22.77
225.0	31.25	29.50	28.27	26.74	25.57	24.58	23.23	22.12	21.07
270.0	30.96	29.55	28.27	27.10	25.98	24.64	23.58	22.47	21.13
315.0	28.27	27.04	25.87	24.52	23.47	22.41	21.07	19.96	18.96
360.0	27.45	25.98	24.87	23.76	22.24	21.13	20.13	19.08	17.79
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.15	16.68	16.33	16.04	16.68	17.62	18.67	19.14	19.72
45.0	18.43	17.67	17.85	18.90	20.07	21.07	21.77	21.77	21.89
90.0	17.79	16.91	16.21	15.68	15.33	15.04	14.81	14.63	14.46
135.0	19.08	18.02	16.97	16.04	15.45	15.10	14.75	14.40	14.16
180.0	21.59	20.19	19.14	18.08	17.09	16.21	15.74	15.33	15.04
225.0	20.01	18.90	17.56	16.68	16.15	15.80	16.21	17.38	17.67
270.0	20.01	18.90	17.56	16.68	16.15	15.57	15.27	15.04	14.75
315.0	17.97	16.80	16.21	15.80	15.45	15.16	14.92	14.75	14.51
360.0	17.15	16.68	16.33	16.04	16.68	17.62	18.67	19.14	19.72
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	20.37	20.48	20.95	20.19	19.25	18.14	14.92	12.87	12.52
45.0	21.19	20.07	19.90	19.14	18.67	17.85	16.80	14.86	13.23
90.0	14.28	14.16	14.10	13.99	13.81	13.75	13.64	13.52	13.40
135.0	13.93	13.69	13.46	13.34	13.23	13.05	12.99	12.93	12.82
180.0	14.63	14.40	14.16	13.87	13.69	13.52	13.34	13.28	13.17
225.0	17.03	16.62	16.04	15.39	14.92	14.28	13.75	13.40	13.17
270.0	14.57	14.28	14.10	13.93	13.75	13.58	13.40	13.17	13.05
315.0	14.28	14.16	14.10	13.87	13.69	13.52	13.40	13.28	12.99
360.0	20.37	20.48	20.95	20.19	19.25	18.14	14.92	12.87	12.52
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.11	11.53	10.89	10.53	9.77	9.60	9.36	9.42	9.42
45.0	12.76	12.23	11.59	10.89	10.18	9.71	9.54	9.31	9.36
90.0	12.99	12.58	11.70	10.94	10.07	9.71	9.60	9.36	9.31
135.0	12.76	12.70	12.35	12.00	11.35	10.53	10.01	9.77	9.66
180.0	13.05	12.93	12.82	12.64	12.35	11.82	11.00	10.42	9.83
225.0	12.93	12.76	12.52	12.06	11.59	10.89	10.24	9.83	9.60
270.0	12.93	12.82	12.47	12.11	11.53	10.83	10.24	9.95	9.71
315.0	12.64	12.23	11.76	11.29	10.83	10.12	9.89	9.48	9.42
360.0	12.11	11.53	10.89	10.53	9.77	9.60	9.36	9.42	9.42

Intensity data(cd)

C/γ(°)	90.0
0.0	9.42
45.0	9.31
90.0	9.31
135.0	9.31
180.0	9.66
225.0	9.42
270.0	9.31
315.0	9.48
360.0	9.42