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NT

Client:

LumCAT: 2-2521-L

Luminaire: 92.70.412.00

Report No: 2024807-B011

Ballast type: AC

Test No: 2024807-C011

Voltage(V): 34.950

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.450

Lamp flux(lm): 2561.0

Power (W): 15.727

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2381.87, Efficiency(%): 93.01% , Luminous Efficacy(lm/W): 151.45

Central intensity(cd): 4046.012, Maximum intensity(cd): 4046.012

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=47.4

[C90/270]Total=47.4

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

[C90/270]Total=69.0

Maximum s/h(1/2): C0_180=0.75 C90_270=0.75

Maximum s/h(1/4): C0_180=0.72 C90_270=0.72

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 93.01%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.986%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/8/7
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	4046.012	0.000	0	0.00%	0.00%
1.0	4034.746	3.866	3.866	0.15%	0.16%
2.0	4007.094	11.542	15.409	0.45%	0.65%
3.0	3962.690	19.061	34.47	0.74%	1.45%
4.0	3902.412	26.327	60.797	1.03%	2.55%
5.0	3838.476	33.301	94.098	1.30%	3.95%
6.0	3770.151	39.985	134.083	1.56%	5.63%
7.0	3698.242	46.356	180.439	1.81%	7.58%
8.0	3626.405	52.421	232.861	2.05%	9.78%
9.0	3556.325	58.212	291.073	2.27%	12.22%
10.0	3482.952	63.703	354.776	2.49%	14.89%
11.0	3404.532	68.820	423.596	2.69%	17.78%
12.0	3320.625	73.516	497.111	2.87%	20.87%
13.0	3237.523	77.829	574.94	3.04%	24.14%
14.0	3152.300	81.789	656.729	3.19%	27.57%
15.0	3062.175	85.315	742.044	3.33%	31.15%
16.0	2958.664	88.222	830.266	3.44%	34.86%
17.0	2864.077	90.676	920.942	3.54%	38.66%
18.0	2749.592	92.557	1013.499	3.61%	42.55%
19.0	2644.032	93.838	1107.337	3.66%	46.49%
20.0	2519.525	94.507	1201.845	3.69%	50.46%
21.0	2391.288	94.298	1296.142	3.68%	54.42%
22.0	2259.393	93.457	1389.6	3.65%	58.34%
23.0	2118.280	91.855	1481.455	3.59%	62.20%
24.0	1975.851	89.512	1570.968	3.50%	65.96%
25.0	1825.448	86.433	1657.401	3.37%	69.58%
26.0	1636.055	81.709	1739.11	3.19%	73.01%
27.0	1407.386	74.458	1813.568	2.91%	76.14%
28.0	1294.679	68.411	1881.979	2.67%	79.01%
29.0	1156.997	64.143	1946.122	2.50%	81.71%
30.0	991.459	58.008	2004.13	2.27%	84.14%
31.0	829.747	50.682	2054.811	1.98%	86.27%
32.0	687.040	43.454	2098.265	1.70%	88.09%
33.0	555.839	36.616	2134.881	1.43%	89.63%
34.0	450.601	30.458	2165.339	1.19%	90.91%
35.0	357.594	25.100	2190.438	0.98%	91.96%
36.0	289.884	20.616	2211.054	0.80%	92.83%
37.0	244.909	17.442	2228.496	0.68%	93.56%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	200.059	14.852	2243.349	0.58%	94.18%
39.0	146.365	11.824	2255.173	0.46%	94.68%
40.0	113.687	9.070	2264.243	0.35%	95.06%
41.0	92.883	7.356	2271.599	0.29%	95.37%
42.0	77.740	6.199	2277.798	0.24%	95.63%
43.0	66.642	5.348	2283.146	0.21%	95.86%
44.0	58.603	4.727	2287.873	0.18%	96.05%
45.0	52.224	4.259	2292.132	0.17%	96.23%
46.0	47.425	3.897	2296.029	0.15%	96.40%
47.0	43.402	3.612	2299.642	0.14%	96.55%
48.0	40.315	3.384	2303.026	0.13%	96.69%
49.0	37.411	3.192	2306.218	0.12%	96.82%
50.0	35.179	3.027	2309.244	0.12%	96.95%
51.0	33.109	2.889	2312.134	0.11%	97.07%
52.0	31.280	2.763	2314.897	0.11%	97.19%
53.0	29.707	2.653	2317.55	0.10%	97.30%
54.0	28.296	2.557	2320.106	0.10%	97.41%
55.0	27.111	2.473	2322.579	0.10%	97.51%
56.0	25.911	2.396	2324.975	0.09%	97.61%
57.0	24.916	2.324	2327.299	0.09%	97.71%
58.0	23.928	2.259	2329.558	0.09%	97.80%
59.0	23.109	2.199	2331.757	0.09%	97.90%
60.0	22.363	2.148	2333.905	0.08%	97.99%
61.0	21.646	2.100	2336.005	0.08%	98.07%
62.0	21.046	2.057	2338.062	0.08%	98.16%
63.0	20.454	2.018	2340.081	0.08%	98.25%
64.0	19.956	1.983	2342.064	0.08%	98.33%
65.0	19.459	1.951	2344.014	0.08%	98.41%
66.0	18.976	1.918	2345.932	0.07%	98.49%
67.0	18.500	1.884	2347.816	0.07%	98.57%
68.0	18.032	1.851	2349.667	0.07%	98.65%
69.0	17.601	1.818	2351.485	0.07%	98.72%
70.0	17.103	1.782	2353.267	0.07%	98.80%
71.0	16.672	1.746	2355.013	0.07%	98.87%
72.0	16.255	1.712	2356.725	0.07%	98.94%
73.0	15.816	1.677	2358.402	0.07%	99.01%
74.0	15.457	1.644	2360.046	0.06%	99.08%
75.0	15.055	1.612	2361.658	0.06%	99.15%

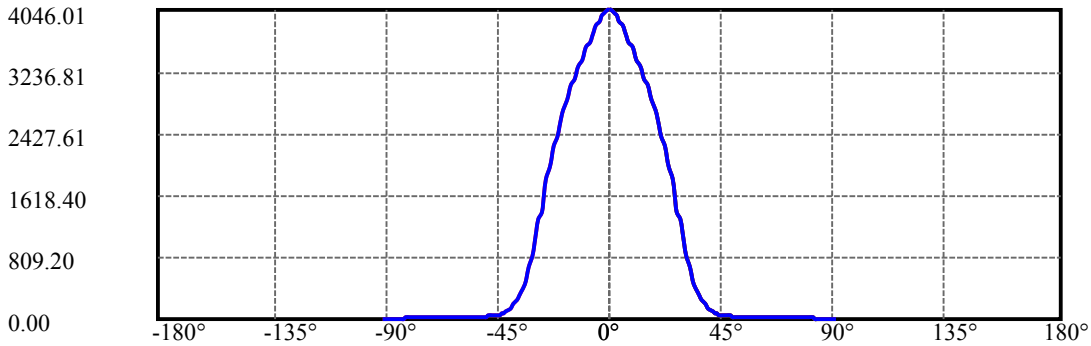
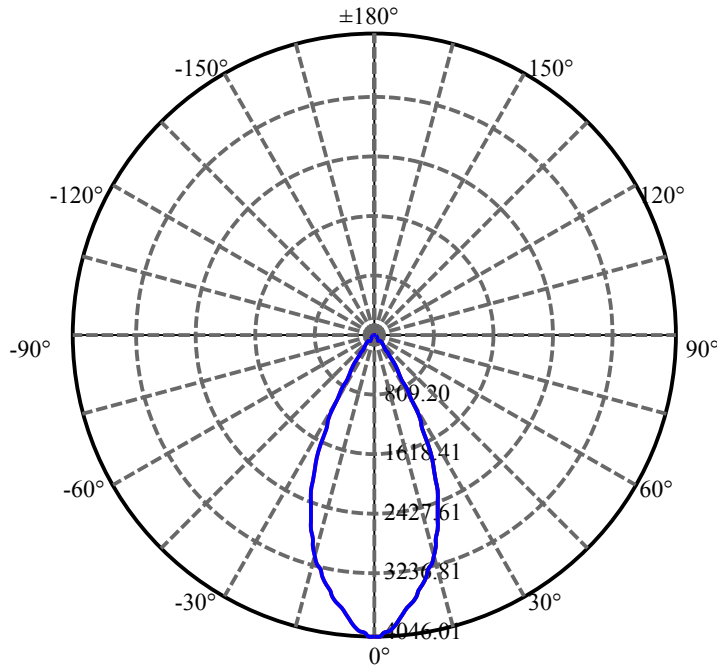
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.689	1.579	2363.237	0.06%	99.22%
77.0	14.287	1.545	2364.782	0.06%	99.28%
78.0	13.950	1.512	2366.294	0.06%	99.35%
79.0	13.563	1.478	2367.772	0.06%	99.41%
80.0	13.204	1.443	2369.215	0.06%	99.47%
81.0	12.875	1.410	2370.625	0.06%	99.53%
82.0	12.531	1.378	2372.003	0.05%	99.59%
83.0	12.180	1.343	2373.346	0.05%	99.64%
84.0	11.880	1.311	2374.657	0.05%	99.70%
85.0	11.558	1.279	2375.936	0.05%	99.75%
86.0	11.170	1.242	2377.179	0.05%	99.80%
87.0	10.871	1.206	2378.385	0.05%	99.85%
88.0	10.666	1.180	2379.565	0.05%	99.90%
89.0	10.512	1.161	2380.725	0.05%	99.95%
90.0	10.410	1.147	2381.872	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2004.13	78.26%	84.14%
0-40	2264.24	88.41%	95.06%
0-60	2333.91	91.13%	97.99%
0-90	2380.73	92.96%	99.95%
0-120	2380.73	92.96%	99.95%
0-180	2381.87	93.01%	100.00%
60-90	46.82	1.83%	1.97%
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%
0-28.37	1905.50	74.40%	80.00%

ZONAL LUMEN SUMMARY

0-10	354.78
10-20	847.07
20-30	802.28
30-40	260.11
40-50	45.00
50-60	24.66
60-70	19.36
70-80	15.95
80-90	11.51
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: —————

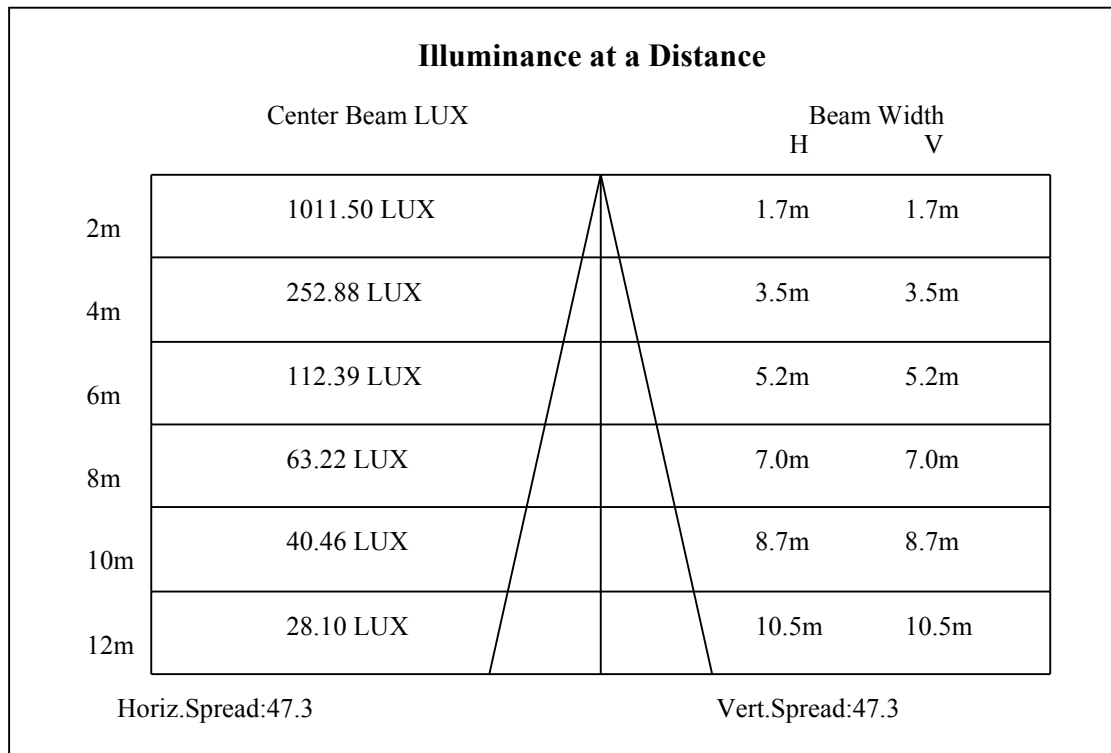
C90/C270: —————

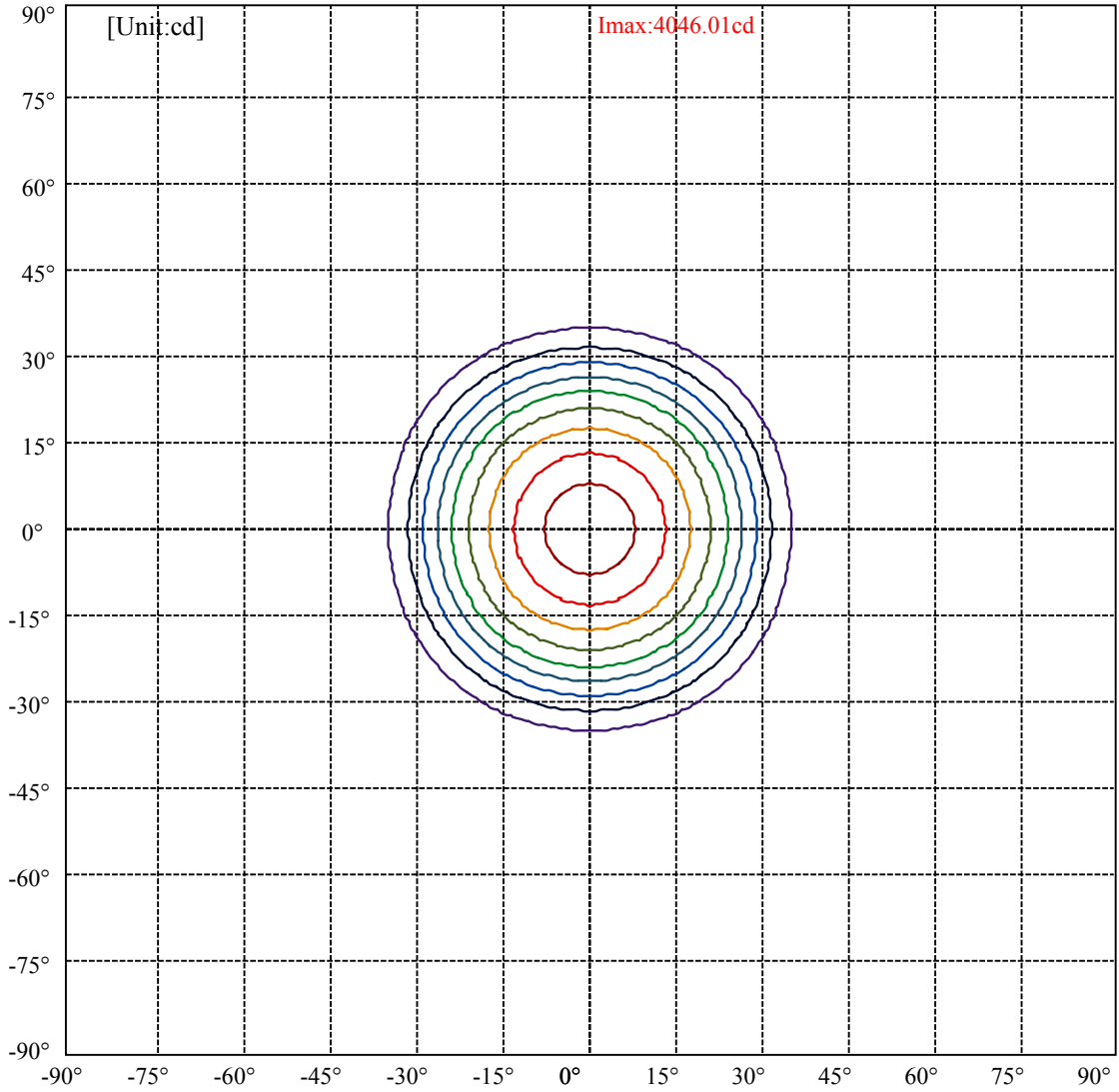
Field angle(10%Imax):C0/180Left:34.5 Right:34.5

:C90/270Left:34.5 Right:34.5

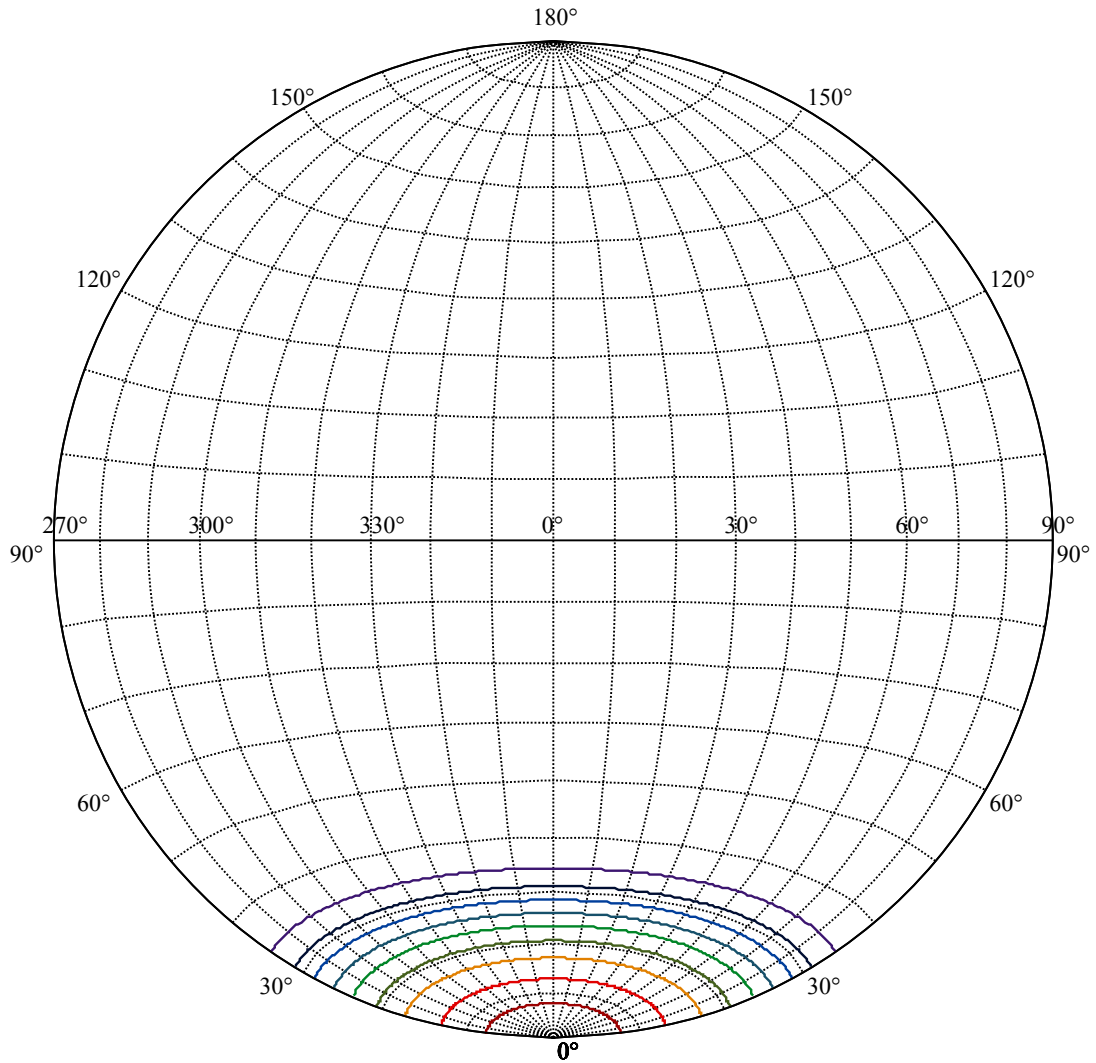
Beam Angle(50%Imax):C0/180Left:23.7 Right:23.7

:C90/270Left:23.7 Right:23.7





(10%Imax) 404.601	—
(20%Imax) 809.202	—
(30%Imax) 1213.8	—
(40%Imax) 1618.4	—
(50%Imax) 2023.01	—
(60%Imax) 2427.61	—
(70%Imax) 2832.21	—
(80%Imax) 3236.81	—
(90%Imax) 3641.41	—



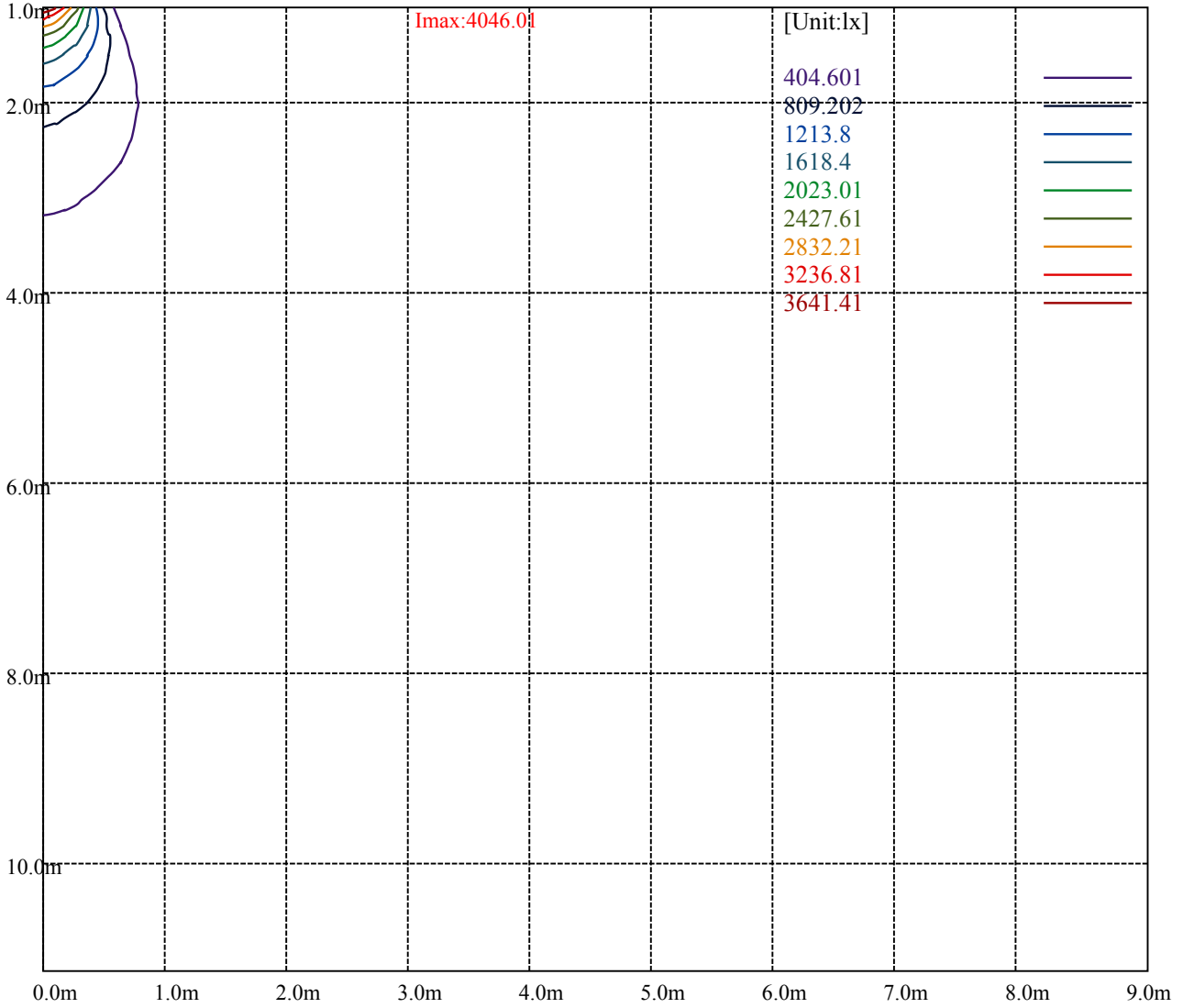
House

[Unit:cd]

Road

Imax:4046.01

(10%Imax) 404.601	—
(20%Imax) 809.202	—
(30%Imax) 1213.8	—
(40%Imax) 1618.4	—
(50%Imax) 2023.01	—
(60%Imax) 2427.61	—
(70%Imax) 2832.21	—
(80%Imax) 3236.81	—
(90%Imax) 3641.41	—



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

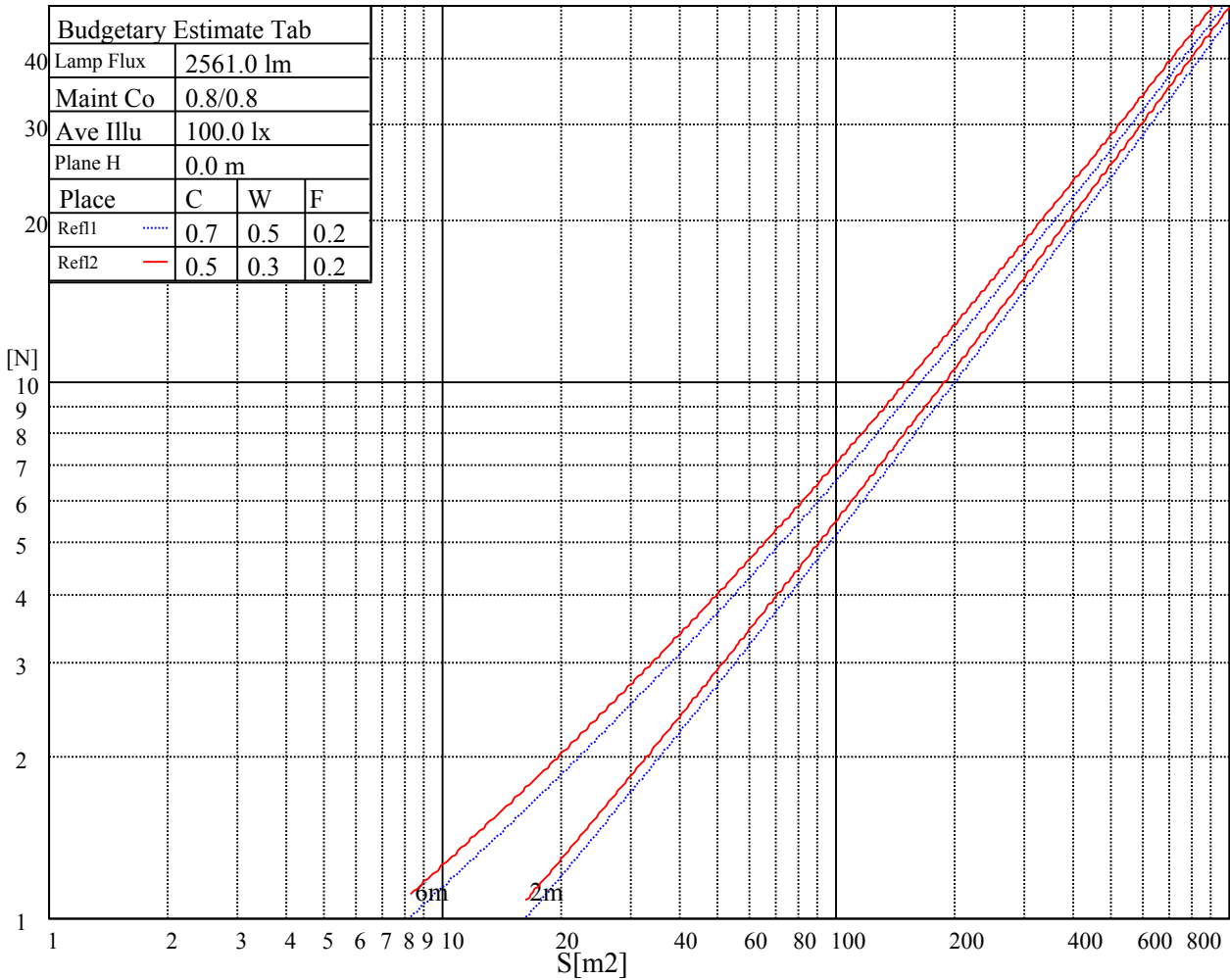
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

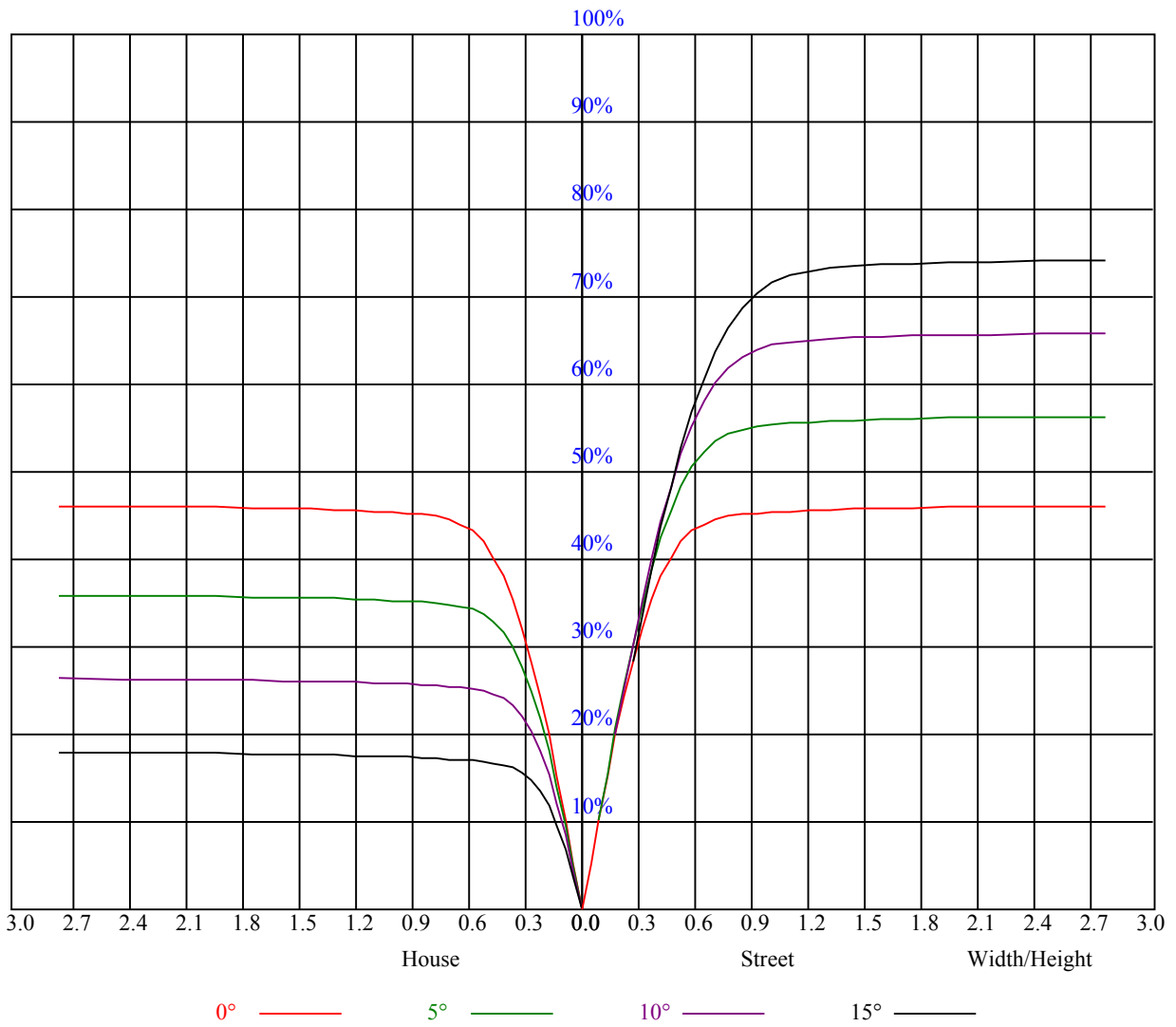


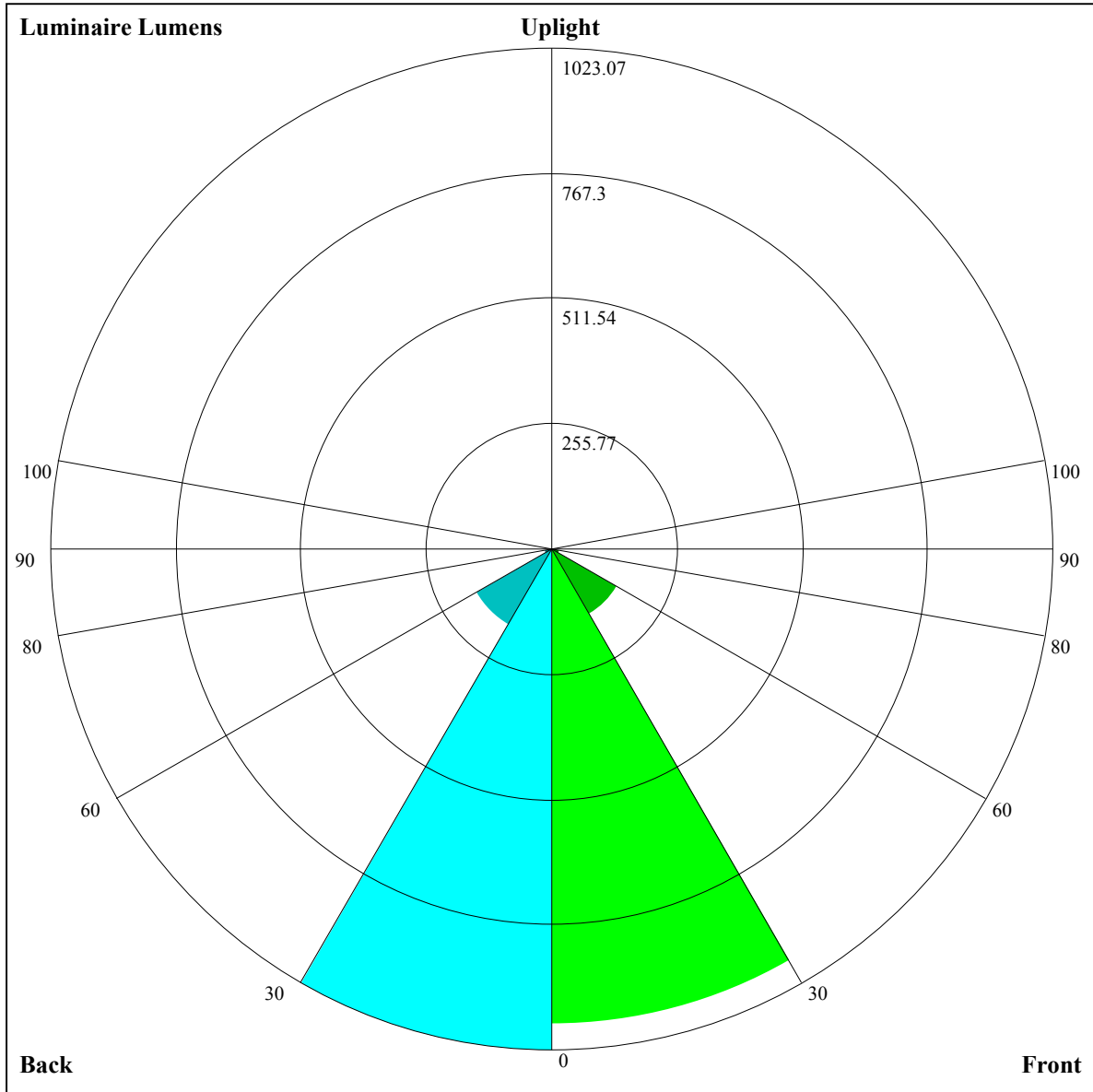
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	
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 RHOFC=20 CU															
0	1.11	1.11	1.11	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.03	1.01	0.99	1.01	0.99	0.97	0.97	0.96	0.94	0.94	0.93	0.92	0.91	0.90	0.89	0.87
2	0.97	0.93	0.90	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.84	0.82
3	0.91	0.87	0.83	0.90	0.86	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.77
4	0.86	0.81	0.77	0.85	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.77	0.74	0.73
5	0.81	0.76	0.72	0.80	0.76	0.72	0.79	0.75	0.71	0.77	0.74	0.71	0.76	0.73	0.70	0.69
6	0.77	0.72	0.68	0.76	0.71	0.68	0.75	0.71	0.67	0.74	0.70	0.67	0.72	0.69	0.67	0.65
7	0.73	0.68	0.64	0.72	0.68	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.62
8	0.69	0.64	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.59
9	0.66	0.61	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.63	0.60	0.57	0.56
10	0.63	0.58	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	0.55	0.53





Luminaire Lumens:

FL=972.27,FM=152.08,FH=17.61,FVH=6.28

BL=1023.07,BM=180.39,BH=17.65,BVH=6.37

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	4038.70	3998.32	3938.04	3876.59	3795.24	3730.87	3677.61	3623.19	3538.33
45.0	4052.74	4049.82	4028.75	3953.84	3905.85	3845.57	3774.17	3679.37	3623.77
90.0	4049.82	4037.53	3988.37	3927.50	3864.30	3768.91	3692.83	3626.11	3548.86
135.0	4042.79	4054.50	4066.79	4042.21	3980.76	3928.67	3866.05	3784.71	3696.92
180.0	4038.70	4044.55	4049.23	4036.36	4001.83	3960.28	3889.46	3821.58	3749.01
225.0	4052.74	4041.04	4009.43	3979.59	3916.97	3851.42	3786.46	3709.80	3651.28
270.0	4049.82	4049.82	4034.01	3998.32	3931.01	3867.23	3798.75	3733.79	3667.08
315.0	4042.79	4002.41	3942.13	3887.12	3823.33	3754.86	3675.86	3607.39	3535.99
360.0	4038.70	3998.32	3938.04	3876.59	3795.24	3730.87	3677.61	3623.19	3538.33
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3454.64	3373.88	3297.80	3188.95	3105.26	3025.09	2950.18	2844.25	2751.79
45.0	3571.69	3507.90	3420.70	3346.38	3277.32	3166.13	3076.00	2965.98	2889.31
90.0	3483.32	3414.85	3320.04	3248.64	3170.81	3074.83	2994.65	2908.63	2824.94
135.0	3632.55	3574.61	3514.33	3421.87	3348.13	3272.64	3157.35	3067.22	2973.59
180.0	3678.20	3593.34	3530.14	3459.91	3358.66	3294.29	3211.19	3107.60	3016.89
225.0	3586.90	3518.43	3430.65	3354.57	3281.42	3199.48	3101.17	2998.17	2887.56
270.0	3588.07	3515.51	3438.26	3344.03	3266.20	3187.78	3094.14	2978.27	2874.68
315.0	3455.23	3365.10	3284.34	3200.65	3092.39	2998.17	2912.72	2799.19	2693.85
360.0	3454.64	3373.88	3297.80	3188.95	3105.26	3025.09	2950.18	2844.25	2751.79
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2627.13	2516.53	2402.99	2247.91	2116.23	1972.85	1820.69	1628.74	1346.66
45.0	2815.58	2713.16	2576.22	2459.17	2338.03	2214.55	2048.93	1897.94	1738.76
90.0	2700.87	2587.34	2480.24	2364.37	2216.31	2088.14	1958.22	1814.26	1629.91
135.0	2854.79	2770.51	2672.78	2539.35	2427.57	2311.11	2167.73	2047.18	1910.23
180.0	2908.63	2810.89	2704.97	2589.09	2435.18	2321.06	2196.99	2069.41	1889.16
225.0	2759.98	2648.20	2491.36	2355.59	2223.33	2053.61	1909.06	1765.10	1612.94
270.0	2763.49	2647.62	2486.68	2358.52	2232.69	2068.83	1930.72	1755.73	1609.43
315.0	2566.27	2458.00	2340.96	2216.31	2085.80	1916.09	1774.46	1625.23	1351.34
360.0	2627.13	2516.53	2402.99	2247.91	2116.23	1972.85	1820.69	1628.74	1346.66
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1137.97	1137.97	939.17	791.63	659.96	541.33	417.97	336.97	254.46
45.0	1536.86	1365.39	1200.94	1003.72	852.73	716.37	569.48	468.82	383.97
90.0	1348.42	1152.37	1113.45	956.73	777.35	651.06	539.28	442.20	342.94
135.0	1770.95	1576.07	1419.23	1260.63	1100.87	904.82	759.68	600.50	492.23
180.0	1739.35	1593.04	1442.05	1241.91	1072.19	879.65	732.76	599.33	467.65
225.0	1133.58	1133.58	1093.32	935.95	755.23	625.55	511.72	415.33	317.95
270.0	1445.56	1292.82	1102.62	947.54	794.79	666.63	521.49	420.84	342.42
315.0	1146.40	1106.19	945.20	793.57	624.84	510.90	394.32	320.82	259.14
360.0	1137.97	1137.97	939.17	791.63	659.96	541.33	417.97	336.97	254.46
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	202.90	163.28	125.71	103.53	87.08	72.57	64.14	57.94	52.90
45.0	296.77	296.77	229.17	153.86	118.39	96.39	80.29	68.53	57.82
90.0	279.33	227.71	183.99	141.27	115.58	95.80	78.30	68.30	61.10
135.0	400.94	307.30	307.30	236.08	156.78	120.67	99.84	84.10	72.51
180.0	378.11	302.03	302.03	179.08	142.03	114.47	93.75	75.20	64.78
225.0	255.16	193.30	154.67	125.06	96.85	80.29	67.94	59.05	51.32
270.0	307.89	307.89	165.21	126.47	103.23	85.91	70.23	61.39	54.84
315.0	197.98	161.00	132.38	105.57	89.54	76.96	67.42	58.64	53.55
360.0	202.90	163.28	125.71	103.53	87.08	72.57	64.14	57.94	52.90

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	47.29	43.54	40.56	38.16	35.58	33.83	31.89	30.55	29.26
45.0	51.38	46.17	41.08	37.86	34.70	32.66	30.90	29.32	27.62
90.0	54.02	49.74	45.24	42.37	39.85	37.57	35.64	33.36	31.72
135.0	62.09	56.12	51.03	46.82	42.66	39.74	36.69	34.70	32.89
180.0	56.94	49.98	45.47	41.90	38.39	35.87	33.59	31.19	29.50
225.0	46.70	42.84	39.68	36.34	34.06	32.13	30.02	28.56	27.27
270.0	49.86	44.89	41.67	38.92	36.46	33.88	32.07	30.43	28.68
315.0	49.51	46.12	42.49	40.15	37.57	35.76	34.06	32.13	30.72
360.0	47.29	43.54	40.56	38.16	35.58	33.83	31.89	30.55	29.26
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	27.80	26.74	25.69	24.76	23.76	22.94	22.24	21.65	21.07
45.0	26.57	25.63	24.87	24.05	23.41	22.82	22.30	21.65	21.13
90.0	30.26	28.91	27.33	26.22	24.93	23.99	23.12	22.18	21.54
135.0	30.90	29.44	28.27	27.10	25.75	24.81	24.05	23.17	22.47
180.0	28.09	26.86	25.46	24.52	23.64	22.65	21.95	21.36	20.78
225.0	25.87	24.87	23.94	22.94	22.18	21.48	20.83	20.13	19.61
270.0	27.45	26.28	24.99	24.05	23.00	22.30	21.59	20.95	20.37
315.0	29.44	28.15	26.74	25.69	24.76	23.88	22.82	22.06	21.42
360.0	27.80	26.74	25.69	24.76	23.76	22.94	22.24	21.65	21.07
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.60	20.13	19.61	19.20	18.79	18.38	18.02	17.26	16.62
45.0	20.66	20.31	19.96	19.43	18.96	18.55	18.02	17.62	17.15
90.0	20.95	20.25	19.72	19.14	18.67	18.02	17.62	17.15	16.74
135.0	21.77	21.24	20.60	20.01	19.49	18.84	18.32	17.73	17.21
180.0	20.13	19.66	19.20	18.84	18.49	18.08	17.73	17.38	17.09
225.0	19.20	18.79	18.32	18.02	17.56	17.21	16.91	16.39	16.04
270.0	19.72	19.25	18.84	18.43	17.91	17.56	17.21	16.74	16.39
315.0	20.60	20.01	19.43	18.73	18.14	17.62	16.97	16.56	16.15
360.0	20.60	20.13	19.61	19.20	18.79	18.38	18.02	17.26	16.62
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.21	15.80	15.39	14.92	14.57	14.22	13.87	13.52	13.11
45.0	16.68	16.15	15.74	15.33	14.98	14.51	14.22	13.87	13.46
90.0	16.27	15.86	15.57	15.10	14.75	14.28	13.93	13.58	13.17
135.0	16.80	16.39	15.98	15.63	15.33	14.92	14.57	14.16	13.81
180.0	16.62	16.21	15.92	15.57	15.16	14.81	14.46	14.05	13.69
225.0	15.74	15.27	14.98	14.63	14.22	13.87	13.52	13.17	12.87
270.0	15.92	15.57	15.22	14.75	14.40	14.05	13.69	13.28	12.93
315.0	15.80	15.27	14.86	14.51	14.10	13.64	13.34	12.87	12.58
360.0	16.21	15.80	15.39	14.92	14.57	14.22	13.87	13.52	13.11
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.76	12.52	12.23	11.94	11.65	11.00	10.77	10.53	10.42
45.0	13.11	12.76	12.41	12.11	11.82	11.47	10.94	10.71	10.53
90.0	12.87	12.52	12.17	11.82	11.53	11.06	10.83	10.65	10.42
135.0	13.52	13.11	12.64	12.29	11.94	11.65	11.24	10.94	10.71
180.0	13.28	12.99	12.64	12.29	11.94	11.59	11.24	11.06	10.94
225.0	12.52	12.17	11.82	11.59	11.29	10.94	10.77	10.59	10.36
270.0	12.64	12.23	11.94	11.59	11.29	10.94	10.71	10.48	10.36
315.0	12.29	11.94	11.59	11.41	11.00	10.71	10.48	10.36	10.36
360.0	12.76	12.52	12.23	11.94	11.65	11.00	10.77	10.53	10.42

Intensity data(cd)

C/ γ (°)	90.0
0.0	10.42
45.0	10.36
90.0	10.36
135.0	10.53
180.0	10.59
225.0	10.30
270.0	10.36
315.0	10.36
360.0	10.42