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NT

Client:

LumCAT: 2-2687-L

Luminaire: 92.70.412.00

Report No: 2024229-B006

Ballast type: AC

Test No: 2024229-C006

Voltage(V): 35.420

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.541

Lamp flux(lm): 2609.0

Power (W): 19.162

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2174.48, Efficiency(%): 83.35% , Luminous Efficacy(lm/W): 113.48

Central intensity(cd): 8656.999, Maximum intensity(cd): 8656.999

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=22.0

[C90/270]Total=22.0

Field angle(10%Imax): [C0/180]Total=54.6

[C90/270]Total=54.6

Maximum s/h(1/2): C0_180=0.37 C90_270=0.37

Maximum s/h(1/4): C0_180=0.42 C90_270=0.42

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 83.35%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.812%

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	8656.999	0.000	0	0.00%	0.00%
1.0	8602.793	8.258	8.258	0.32%	0.38%
2.0	8426.421	24.442	32.7	0.94%	1.50%
3.0	8156.047	39.660	72.36	1.52%	3.33%
4.0	7748.730	53.238	125.599	2.04%	5.78%
5.0	7305.861	64.764	190.363	2.48%	8.75%
6.0	6851.141	74.399	264.761	2.85%	12.18%
7.0	6345.214	81.910	346.671	3.14%	15.94%
8.0	5797.883	86.906	433.577	3.33%	19.94%
9.0	5316.901	90.079	523.656	3.45%	24.08%
10.0	4781.420	91.386	615.042	3.50%	28.28%
11.0	4349.963	91.241	706.284	3.50%	32.48%
12.0	3915.799	90.357	796.64	3.46%	36.64%
13.0	3521.869	88.266	884.907	3.38%	40.70%
14.0	3153.324	85.442	970.348	3.27%	44.62%
15.0	2843.667	82.329	1052.678	3.16%	48.41%
16.0	2564.880	79.250	1131.928	3.04%	52.06%
17.0	2329.620	76.221	1208.149	2.92%	55.56%
18.0	2117.403	73.322	1281.47	2.81%	58.93%
19.0	1927.351	70.370	1351.841	2.70%	62.17%
20.0	1766.780	67.613	1419.454	2.59%	65.28%
21.0	1610.817	64.857	1484.31	2.49%	68.26%
22.0	1428.337	61.073	1545.383	2.34%	71.07%
23.0	1305.001	57.353	1602.736	2.20%	73.71%
24.0	1209.272	54.971	1657.707	2.11%	76.23%
25.0	1123.149	53.034	1710.741	2.03%	78.67%
26.0	1011.232	50.382	1761.124	1.93%	80.99%
27.0	897.794	46.705	1807.829	1.79%	83.14%
28.0	786.425	42.641	1850.469	1.63%	85.10%
29.0	674.801	38.230	1888.699	1.47%	86.86%
30.0	561.721	33.386	1922.085	1.28%	88.39%
31.0	461.347	28.471	1950.556	1.09%	89.70%
32.0	368.575	23.776	1974.332	0.91%	90.80%
33.0	289.730	19.394	1993.726	0.74%	91.69%
34.0	243.263	16.130	2009.856	0.62%	92.43%
35.0	188.179	13.399	2023.255	0.51%	93.05%
36.0	136.109	10.325	2033.58	0.40%	93.52%
37.0	117.616	8.275	2041.855	0.32%	93.90%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	104.543	7.415	2049.271	0.28%	94.24%
39.0	93.204	6.750	2056.02	0.26%	94.55%
40.0	83.929	6.178	2062.198	0.24%	94.84%
41.0	75.538	5.679	2067.877	0.22%	95.10%
42.0	68.142	5.220	2073.097	0.20%	95.34%
43.0	61.375	4.798	2077.894	0.18%	95.56%
44.0	55.655	4.417	2082.311	0.17%	95.76%
45.0	50.856	4.093	2086.405	0.16%	95.95%
46.0	46.343	3.801	2090.206	0.15%	96.12%
47.0	42.348	3.527	2093.733	0.14%	96.29%
48.0	39.100	3.293	2097.026	0.13%	96.44%
49.0	36.094	3.088	2100.114	0.12%	96.58%
50.0	33.643	2.908	2103.021	0.11%	96.71%
51.0	31.631	2.762	2105.783	0.11%	96.84%
52.0	29.898	2.640	2108.423	0.10%	96.96%
53.0	28.405	2.536	2110.96	0.10%	97.08%
54.0	27.067	2.445	2113.405	0.09%	97.19%
55.0	25.940	2.366	2115.771	0.09%	97.30%
56.0	25.055	2.304	2118.075	0.09%	97.41%
57.0	24.272	2.255	2120.33	0.09%	97.51%
58.0	23.585	2.213	2122.543	0.08%	97.61%
59.0	23.087	2.182	2124.725	0.08%	97.71%
60.0	22.707	2.163	2126.889	0.08%	97.81%
61.0	22.429	2.154	2129.043	0.08%	97.91%
62.0	22.100	2.146	2131.188	0.08%	98.01%
63.0	21.529	2.122	2133.31	0.08%	98.11%
64.0	20.863	2.080	2135.39	0.08%	98.20%
65.0	19.956	2.020	2137.411	0.08%	98.30%
66.0	18.976	1.942	2139.353	0.07%	98.38%
67.0	18.164	1.867	2141.221	0.07%	98.47%
68.0	17.623	1.813	2143.033	0.07%	98.55%
69.0	17.374	1.785	2144.819	0.07%	98.64%
70.0	17.103	1.771	2146.589	0.07%	98.72%
71.0	16.767	1.751	2148.34	0.07%	98.80%
72.0	16.481	1.729	2150.069	0.07%	98.88%
73.0	16.196	1.709	2151.778	0.07%	98.96%
74.0	15.786	1.681	2153.459	0.06%	99.03%
75.0	15.428	1.649	2155.108	0.06%	99.11%

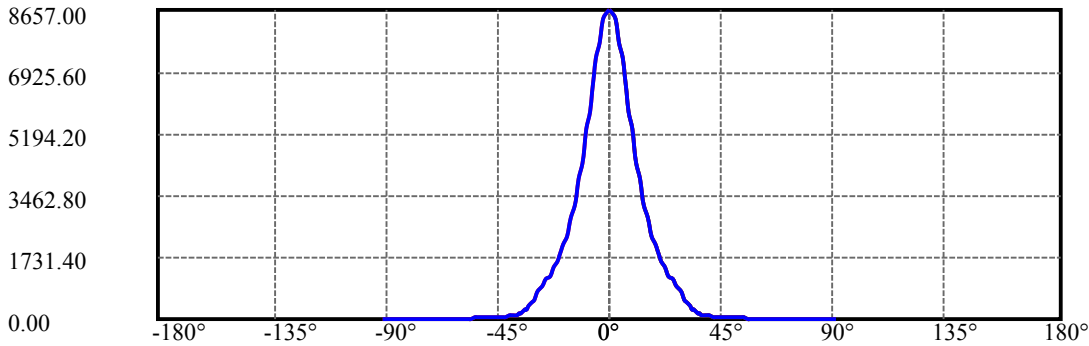
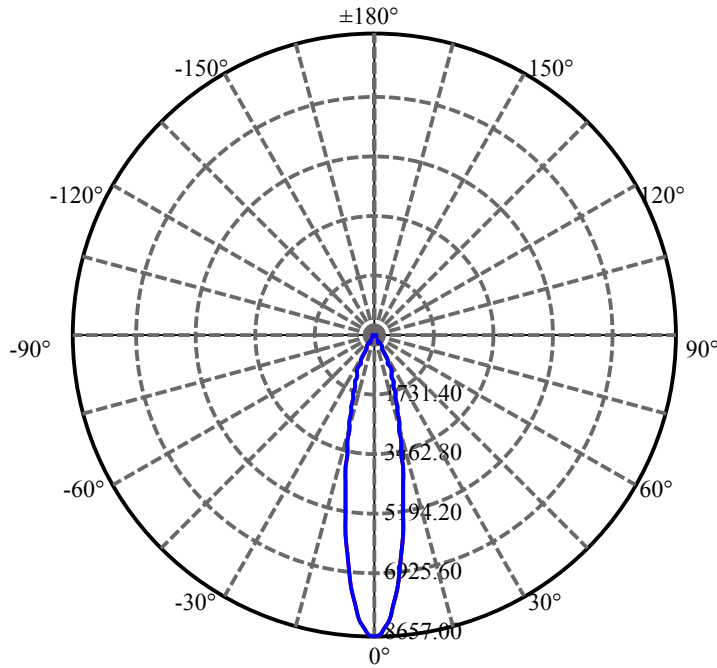
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.062	1.619	2156.727	0.06%	99.18%
77.0	14.623	1.583	2158.309	0.06%	99.26%
78.0	14.243	1.545	2159.855	0.06%	99.33%
79.0	13.724	1.503	2161.357	0.06%	99.40%
80.0	13.051	1.443	2162.801	0.06%	99.46%
81.0	12.341	1.373	2164.174	0.05%	99.53%
82.0	11.587	1.298	2165.472	0.05%	99.59%
83.0	11.053	1.231	2166.702	0.05%	99.64%
84.0	10.761	1.188	2167.891	0.05%	99.70%
85.0	10.490	1.160	2169.051	0.04%	99.75%
86.0	10.205	1.131	2170.182	0.04%	99.80%
87.0	9.942	1.103	2171.284	0.04%	99.85%
88.0	9.737	1.078	2172.362	0.04%	99.90%
89.0	9.642	1.062	2173.424	0.04%	99.95%
90.0	9.539	1.052	2174.476	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1922.09	73.67%	88.39%
0-40	2062.20	79.04%	94.84%
0-60	2126.89	81.52%	97.81%
0-90	2173.42	83.30%	99.95%
0-120	2173.42	83.30%	99.95%
0-180	2174.48	83.35%	100.00%
60-90	46.54	1.78%	2.14%
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%
0-25.57	1739.58	66.68%	80.00%

ZONAL LUMEN SUMMARY

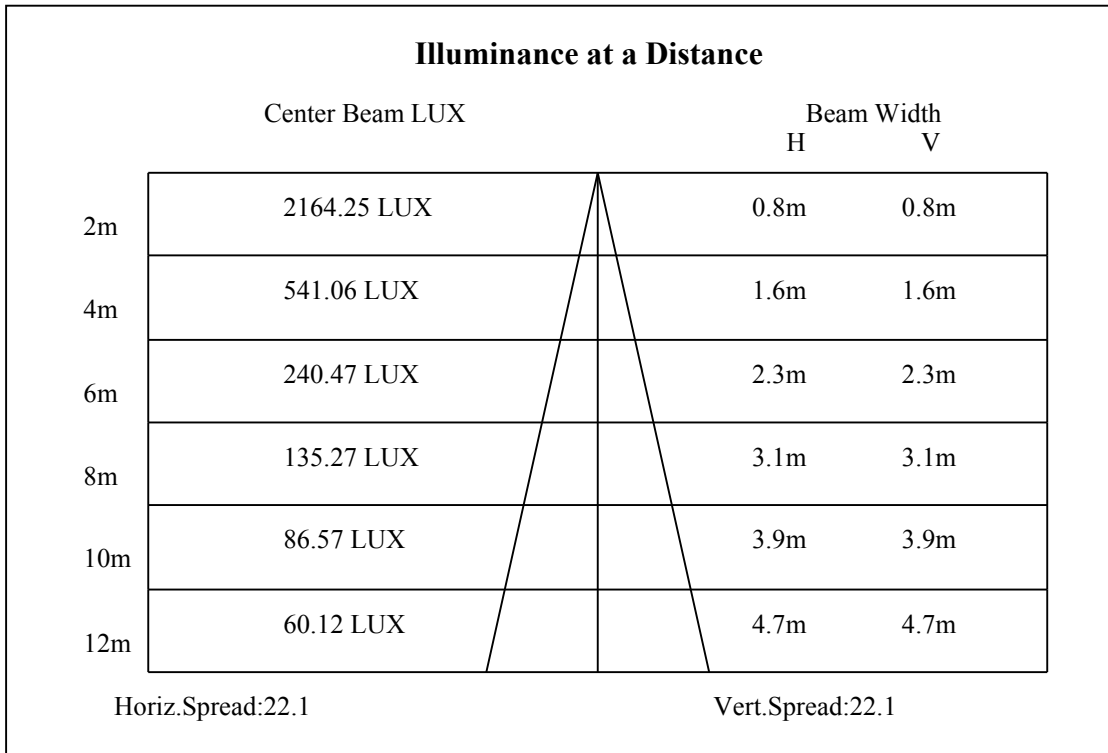
0-10	615.04
10-20	804.41
20-30	502.63
30-40	140.11
40-50	40.82
50-60	23.87
60-70	19.70
70-80	16.21
80-90	10.62
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

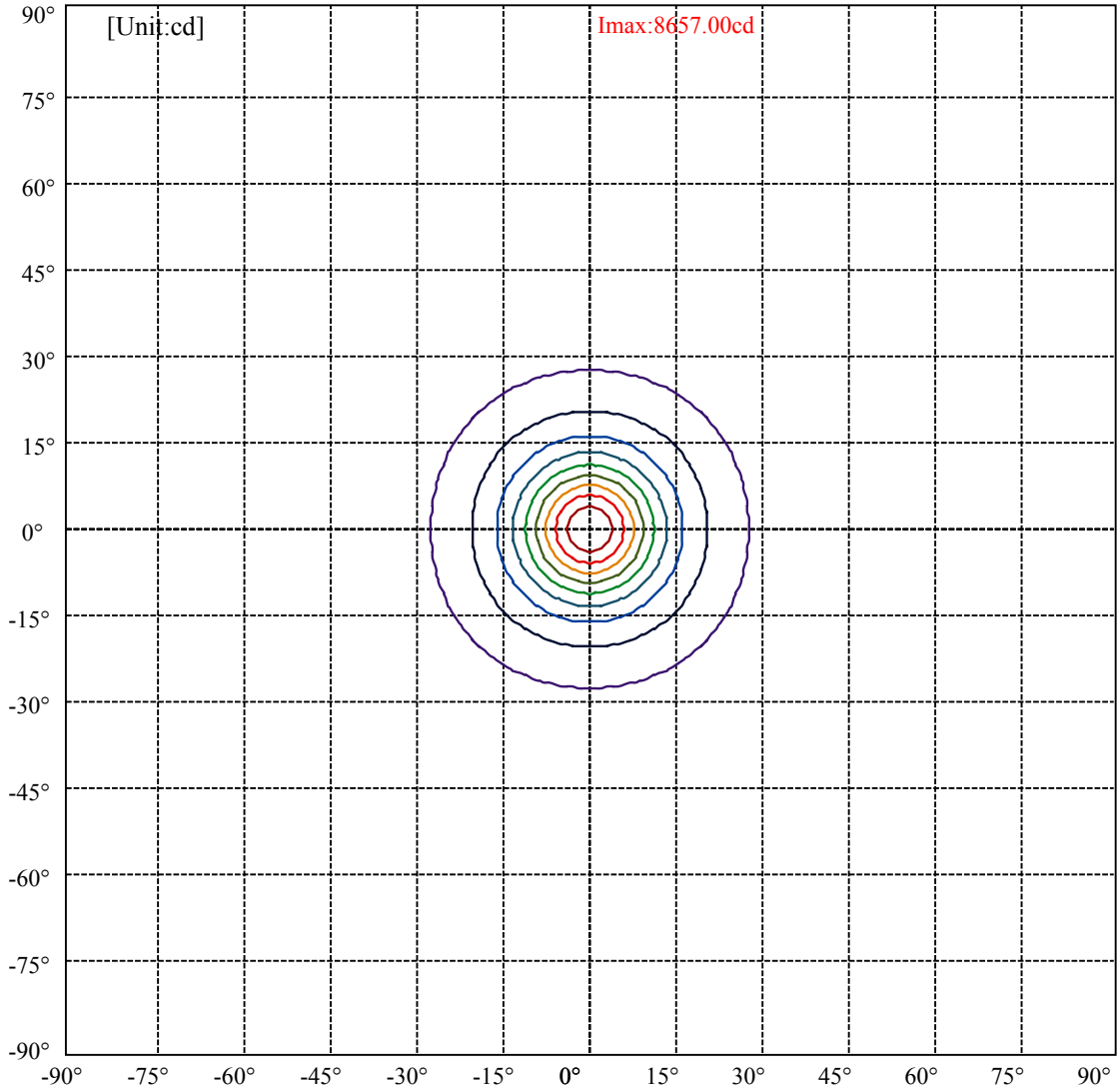


C0(Max): —————
C0/C180: —————
C90/C270: —————

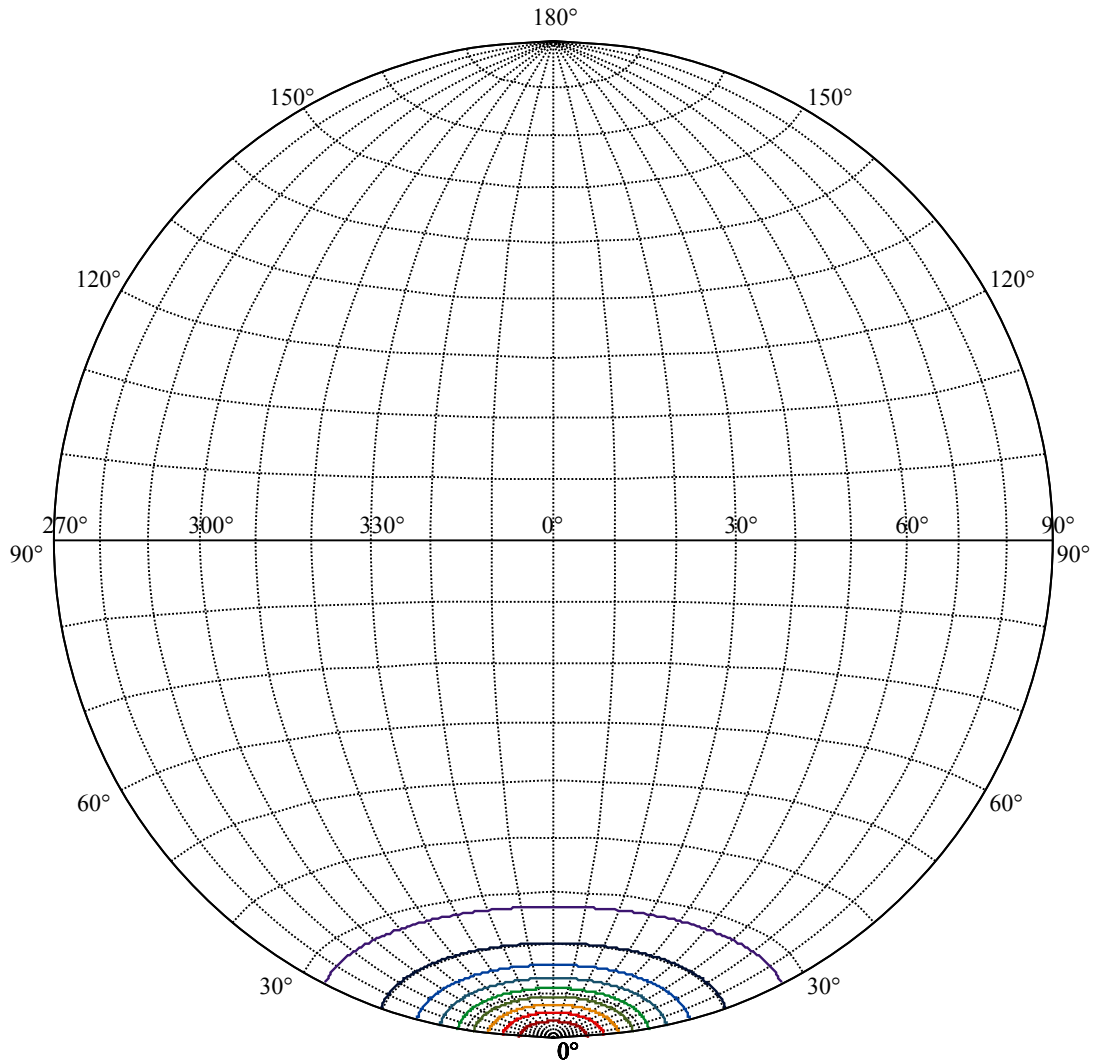
Field angle(10%Imax):C0/180Left:27.3 Right:27.3
:C90/270Left:27.3 Right:27.3

Beam Angle(50%Imax):C0/180Left:11.0 Right:11.0
:C90/270Left:11.0 Right:11.0





(10%Imax) 865.7	—
(20%Imax) 1731.4	—
(30%Imax) 2597.1	—
(40%Imax) 3462.8	—
(50%Imax) 4328.5	—
(60%Imax) 5194.2	—
(70%Imax) 6059.9	—
(80%Imax) 6925.6	—
(90%Imax) 7791.3	—



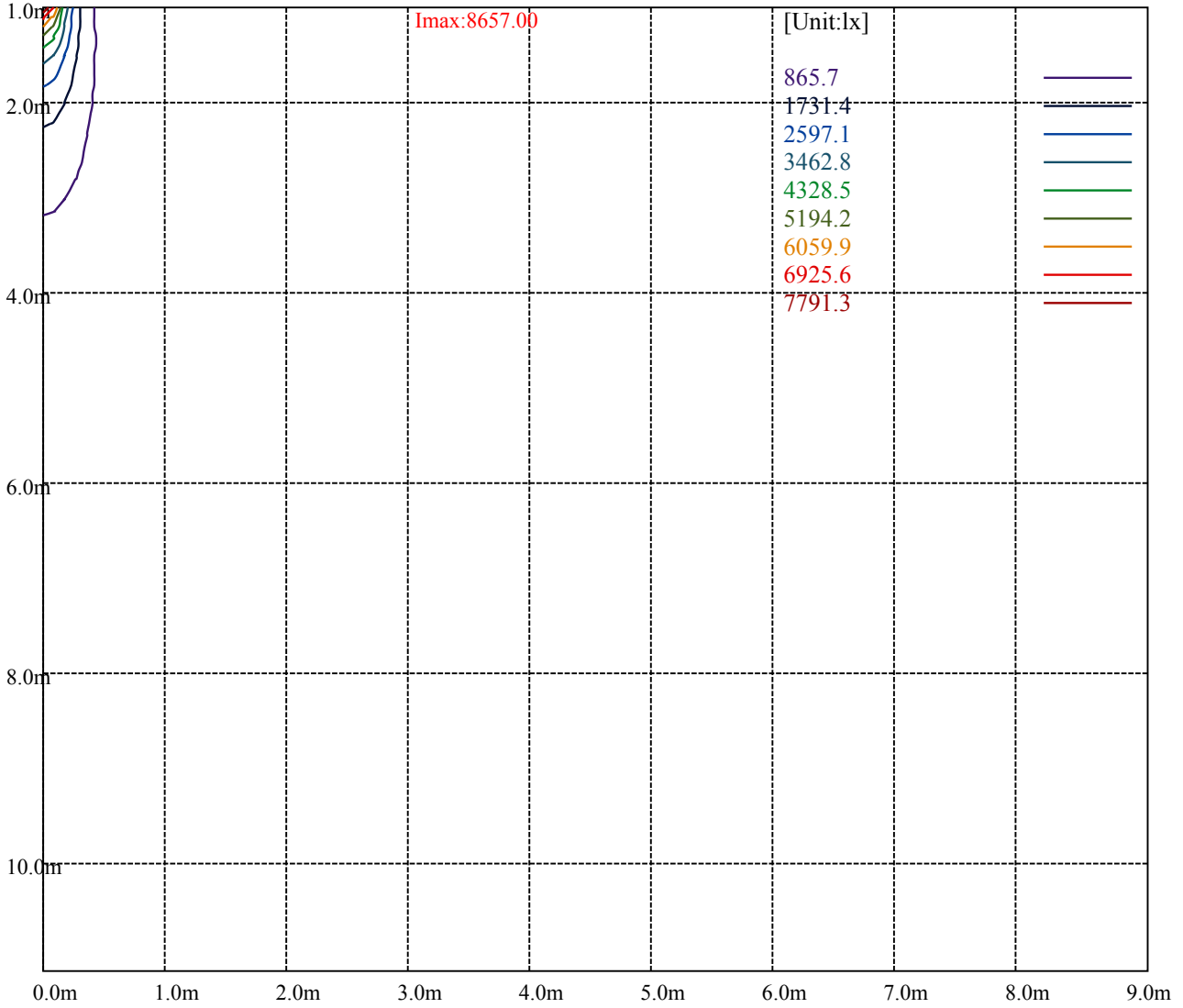
House

[Unit:cd]

Road

Imax:8657.00

(10%Imax)	865.7	—
(20%Imax)	1731.4	—
(30%Imax)	2597.1	—
(40%Imax)	3462.8	—
(50%Imax)	4328.5	—
(60%Imax)	5194.2	—
(70%Imax)	6059.9	—
(80%Imax)	6925.6	—
(90%Imax)	7791.3	—



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

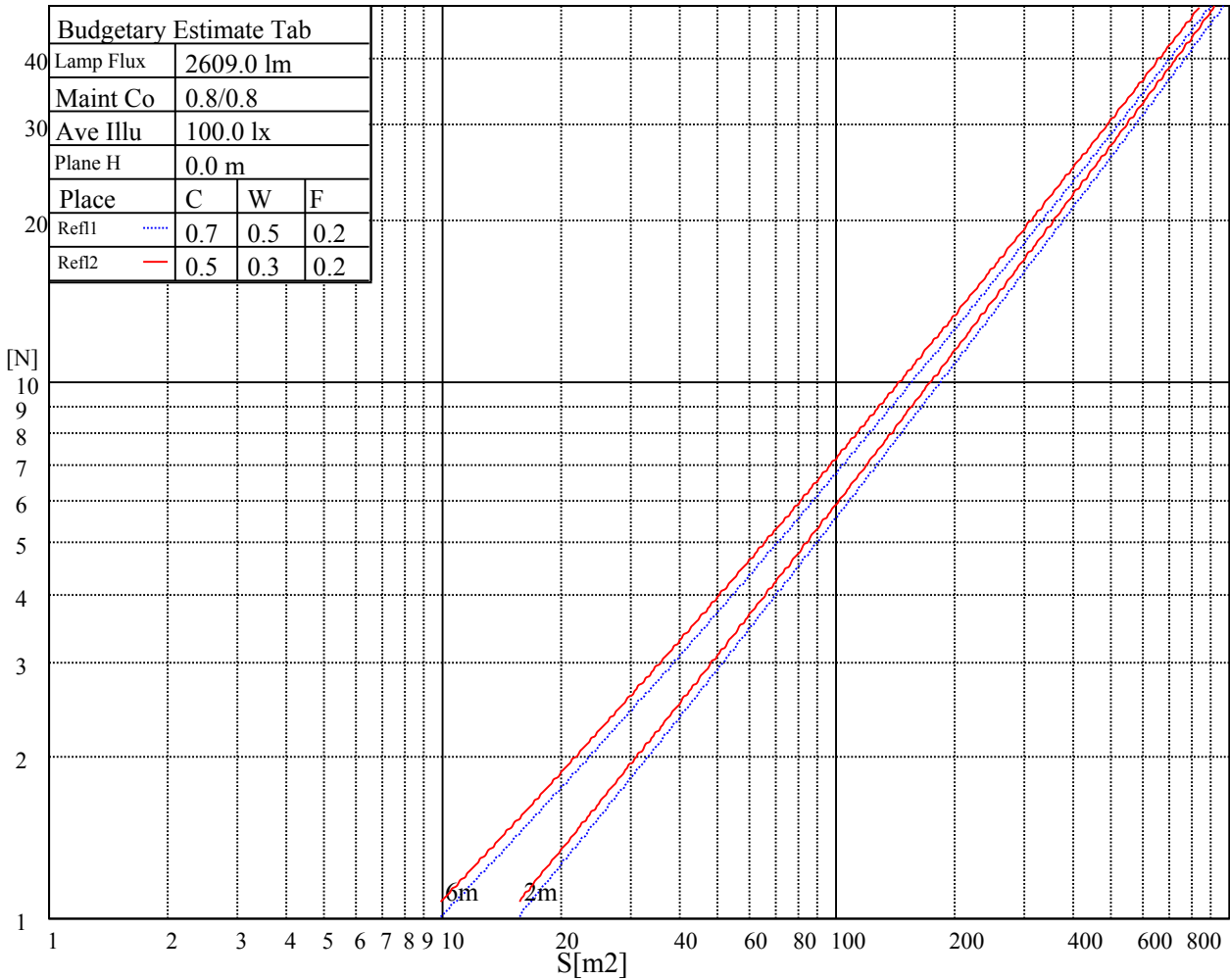
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

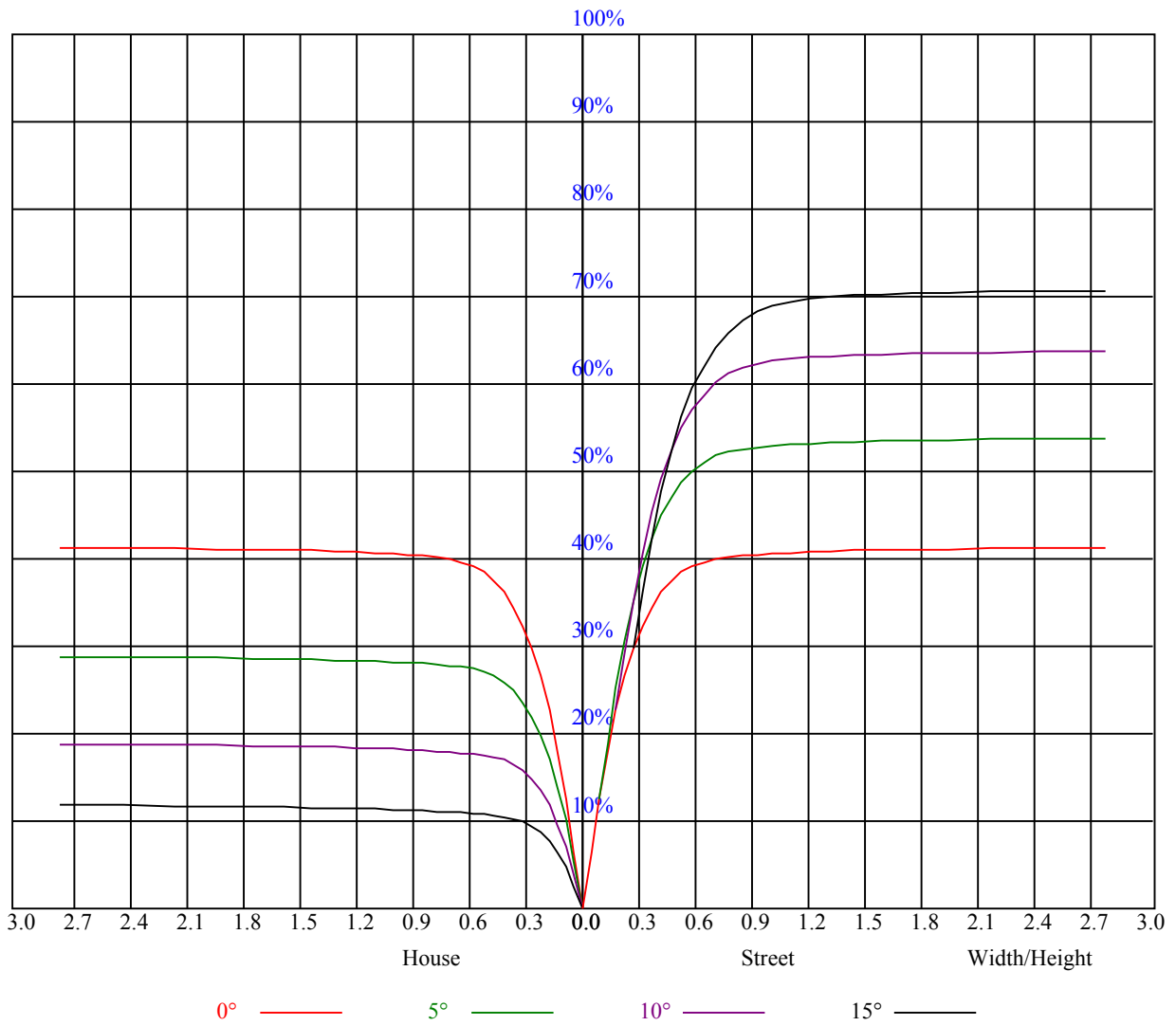


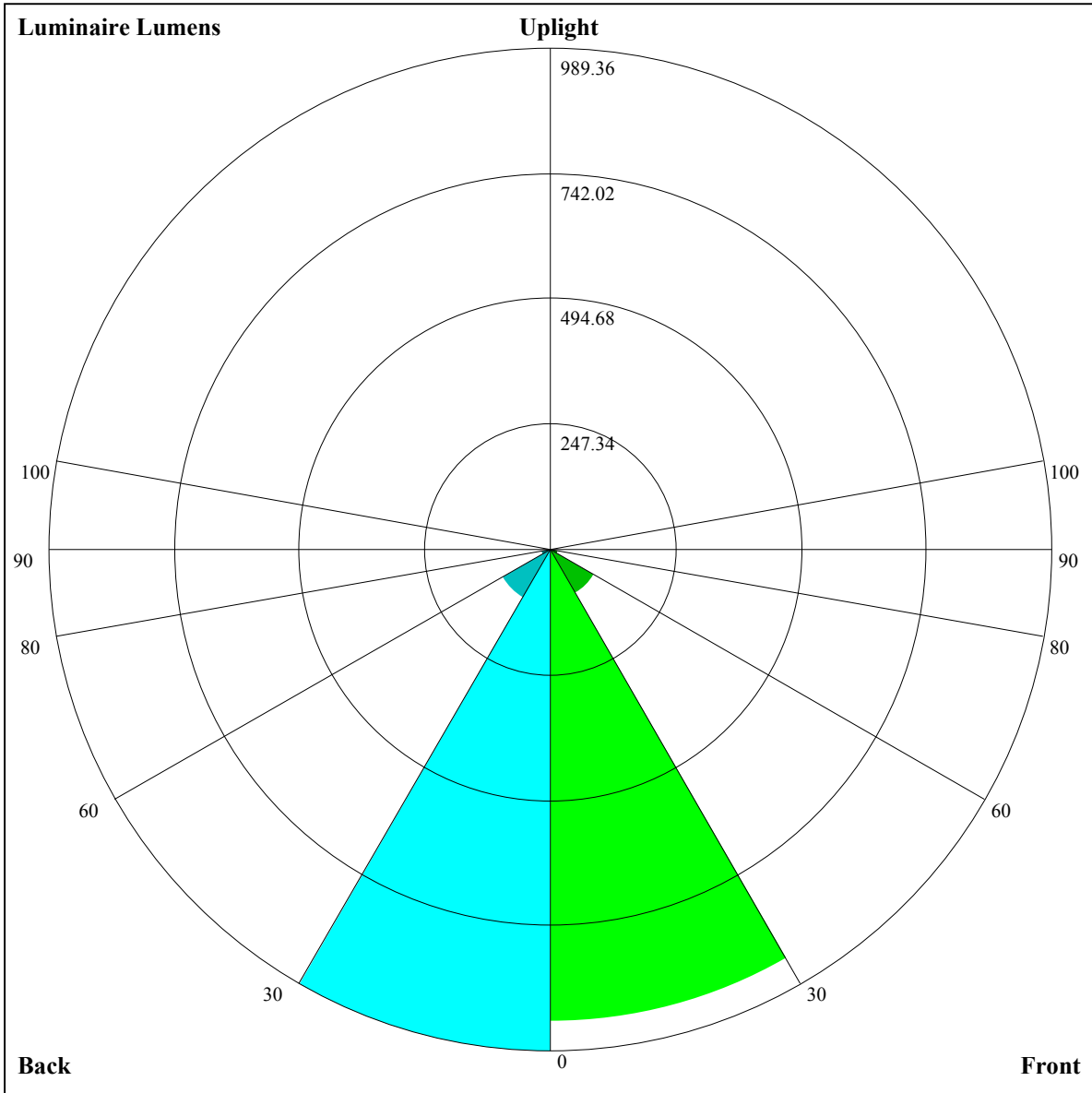
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	
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 RHOF=20 CU															
0	0.99	0.99	0.99	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.85	0.85	0.85	0.83
1	0.93	0.91	0.90	0.91	0.90	0.88	0.88	0.87	0.85	0.85	0.84	0.83	0.82	0.81	0.80	0.79
2	0.88	0.85	0.83	0.86	0.84	0.82	0.84	0.82	0.80	0.81	0.80	0.78	0.79	0.78	0.77	0.75
3	0.83	0.80	0.77	0.82	0.79	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.76	0.75	0.73	0.72
4	0.79	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.71	0.75	0.73	0.71	0.74	0.72	0.70	0.69
5	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.72	0.70	0.68	0.71	0.69	0.67	0.66
6	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.69	0.66	0.64	0.63
7	0.70	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.67	0.64	0.62	0.61
8	0.67	0.63	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.59
9	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.57
10	0.63	0.59	0.56	0.62	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.61	0.58	0.56	0.55





Luminaire Lumens:

FL=932.2,FM=98.34,FH=16.95,FVH=5.72

BL=989.36,BM=110.51,BH=18.55,BVH=5.96

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	8564.83	8345.95	8036.95	7644.85	7073.09	6600.23	6119.17	5632.85	5033.58
45.0	8704.70	8626.86	8443.10	8160.44	7684.65	7241.63	6772.87	6292.98	5689.62
90.0	8647.93	8489.33	8146.98	7775.94	7217.64	6751.21	6269.57	5665.04	5188.66
135.0	8710.55	8627.45	8455.39	8168.63	7683.48	7229.34	6752.38	6269.57	5663.28
180.0	8564.83	8688.31	8685.38	8543.76	8317.86	7988.96	7598.03	7036.80	6547.56
225.0	8704.70	8664.90	8476.46	8218.96	7870.16	7351.07	6884.06	6395.40	5899.71
270.0	8647.93	8711.72	8680.70	8505.13	8255.83	7921.08	7513.76	7065.48	6455.68
315.0	8710.55	8667.83	8486.41	8230.66	7887.14	7363.36	6899.28	6403.59	5904.98
360.0	8564.83	8345.95	8036.95	7644.85	7073.09	6600.23	6119.17	5632.85	5033.58
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4580.03	4158.08	3768.91	3324.72	3011.63	2672.78	2432.84	2223.33	1996.26
45.0	5214.41	4757.94	4327.80	3826.26	3459.91	3128.09	2764.66	2508.92	2288.87
90.0	4728.68	4196.71	3806.95	3448.20	3129.26	2778.12	2527.65	2309.36	2120.33
135.0	5186.91	4736.28	4314.34	3822.75	3469.86	3149.15	2795.68	2545.79	2329.25
180.0	6050.11	5426.85	4958.08	4526.19	3995.39	3609.14	3269.13	2975.34	2654.05
225.0	5407.54	4814.70	4372.86	3966.71	3596.85	3177.83	2882.88	2559.83	2338.03
270.0	5954.72	5342.58	4874.98	4445.43	3917.55	3537.16	3198.90	2841.33	2582.66
315.0	5412.80	4818.22	4375.79	3966.13	3594.51	3174.32	2877.61	2555.15	2327.50
360.0	4580.03	4158.08	3768.91	3324.72	3011.63	2672.78	2432.84	2223.33	1996.26
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1839.42	1690.77	1516.38	1385.29	1145.69	1145.69	1070.20	937.71	827.33
45.0	2057.12	1892.68	1747.54	1574.90	1439.71	1320.91	1196.84	1097.36	987.92
90.0	1912.57	1764.51	1625.23	1456.10	1164.60	1164.60	1114.56	1010.92	898.85
135.0	2096.92	1933.06	1786.17	1613.52	1480.09	1362.46	1260.63	1141.25	1035.91
180.0	2414.70	2161.29	1995.09	1832.40	1653.32	1525.15	1396.41	1289.31	1171.68
225.0	2140.23	1921.35	1770.95	1632.25	1466.63	1272.92	1146.46	1146.46	1023.32
270.0	2346.23	2143.74	1932.47	1773.88	1628.74	1498.23	1339.05	1236.05	1144.76
315.0	2132.03	1911.40	1760.42	1618.21	1447.91	1150.03	1150.03	1126.15	1000.09
360.0	1839.42	1690.77	1516.38	1385.29	1145.69	1145.69	1070.20	937.71	827.33
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	716.96	587.68	489.72	398.07	296.71	229.88	168.78	141.27	125.30
45.0	872.63	761.44	632.10	537.30	447.17	343.00	305.55	305.55	152.45
90.0	759.04	655.92	558.66	444.07	357.57	278.57	212.90	164.51	133.02
135.0	928.23	814.11	677.75	575.92	477.02	361.73	300.28	300.28	156.26
180.0	1076.87	971.53	864.44	726.32	619.23	516.81	419.66	312.57	312.57
225.0	914.82	807.43	699.75	575.28	481.05	391.98	290.74	222.80	170.12
270.0	1019.52	910.67	800.06	665.46	564.80	468.82	358.80	298.52	298.52
315.0	894.28	782.62	675.93	571.36	447.23	357.81	261.13	200.62	157.19
360.0	716.96	587.68	489.72	398.07	296.71	229.88	168.78	141.27	125.30
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	112.54	98.84	89.36	81.05	73.39	65.19	59.58	54.54	50.04
45.0	132.38	118.92	104.05	94.10	85.21	77.48	69.00	62.97	57.59
90.0	119.15	107.15	93.87	84.97	75.14	68.47	62.44	57.00	50.97
135.0	133.90	116.52	104.11	93.46	84.21	76.31	67.77	61.57	56.06
180.0	170.01	139.23	121.96	106.22	95.39	85.91	77.48	68.35	61.98
225.0	131.97	116.93	104.70	91.70	82.87	74.91	67.89	60.40	55.19
270.0	160.35	127.64	114.18	102.47	92.35	81.29	73.39	66.31	58.87
315.0	128.57	115.70	104.11	91.65	82.87	74.73	67.59	59.87	54.54
360.0	112.54	98.84	89.36	81.05	73.39	65.19	59.58	54.54	50.04

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	45.12	41.67	38.04	35.52	33.47	31.25	29.73	28.44	27.33
45.0	52.96	47.64	43.95	39.91	37.10	34.76	32.25	30.61	29.14
90.0	46.82	43.07	39.85	36.34	33.88	31.89	29.79	28.38	27.15
135.0	51.27	46.06	42.37	39.15	35.52	32.60	30.72	29.14	27.80
180.0	56.53	51.62	46.41	42.84	39.68	36.34	34.12	32.13	30.08
225.0	50.62	46.64	42.37	39.39	36.23	34.06	32.19	30.14	28.79
270.0	53.72	48.22	44.42	41.20	37.63	35.23	33.12	31.25	29.26
315.0	49.80	45.82	41.38	38.45	35.23	33.01	31.13	29.09	27.68
360.0	45.12	41.67	38.04	35.52	33.47	31.25	29.73	28.44	27.33
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	26.04	25.22	24.46	23.82	23.23	22.94	22.59	22.12	21.71
45.0	27.62	26.57	25.63	24.81	23.99	23.47	23.12	22.82	22.18
90.0	25.75	24.93	24.23	23.41	23.00	22.77	22.30	21.95	21.54
135.0	26.34	25.34	24.58	23.82	23.06	22.65	22.47	22.30	21.89
180.0	28.68	27.21	26.16	25.28	24.58	23.94	23.35	23.06	22.88
225.0	27.62	26.28	25.34	24.64	23.94	23.35	23.12	22.88	22.65
270.0	27.97	26.74	25.69	24.81	23.94	23.29	22.71	22.47	22.36
315.0	26.51	25.22	24.35	23.58	22.94	22.30	22.00	21.83	21.59
360.0	26.04	25.22	24.46	23.82	23.23	22.94	22.59	22.12	21.71
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.42	19.61	18.67	17.79	16.97	16.27	15.74	15.39	14.86
45.0	21.77	20.95	19.72	18.90	17.91	17.85	18.49	18.02	17.38
90.0	20.78	19.43	18.61	17.67	16.91	16.09	15.57	15.04	14.75
135.0	21.48	20.78	19.49	18.67	17.62	16.74	16.09	15.63	15.16
180.0	22.59	22.36	21.95	20.89	19.84	18.96	18.49	18.67	18.90
225.0	22.12	21.65	20.66	19.72	19.72	20.54	21.59	22.47	22.41
270.0	21.95	21.59	20.95	19.72	18.79	17.91	17.09	16.27	15.74
315.0	21.13	20.54	19.61	18.43	17.56	16.62	15.92	15.33	14.92
360.0	20.42	19.61	18.67	17.79	16.97	16.27	15.74	15.39	14.86
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.57	14.28	13.81	13.46	13.11	12.70	12.47	12.11	11.53
45.0	16.85	16.09	15.45	14.75	14.10	13.52	12.87	12.41	12.06
90.0	14.46	14.10	13.75	13.40	13.05	12.58	12.29	11.94	11.65
135.0	14.92	14.69	14.46	14.16	13.81	13.34	12.93	12.47	12.06
180.0	19.43	19.55	19.43	19.31	19.49	19.37	19.08	18.08	16.50
225.0	21.89	21.77	21.07	20.54	19.84	19.08	18.55	17.79	16.21
270.0	15.27	14.98	14.63	14.34	14.05	13.64	13.34	12.99	12.64
315.0	14.46	14.10	13.69	13.46	13.05	12.76	12.41	12.00	11.76
360.0	14.57	14.28	13.81	13.46	13.11	12.70	12.47	12.11	11.53
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.29	10.94	10.71	10.42	10.12	9.89	9.77	9.48	9.66
45.0	11.53	11.18	10.83	10.59	10.42	10.01	9.83	9.77	9.48
90.0	11.29	11.00	10.65	10.36	10.07	9.89	9.71	9.48	9.66
135.0	11.59	11.24	10.89	10.65	10.42	10.12	9.89	9.77	9.42
180.0	15.86	13.69	11.76	11.35	11.12	10.71	10.30	10.01	9.77
225.0	13.46	11.65	11.18	10.89	10.59	10.30	10.01	9.83	9.71
270.0	12.23	11.88	11.53	11.12	10.77	10.53	10.12	9.83	9.71
315.0	11.47	11.12	10.89	10.71	10.42	10.18	9.89	9.71	9.71
360.0	11.29	10.94	10.71	10.42	10.12	9.89	9.77	9.48	9.66

Intensity data(cd)

C/γ(°)	90.0
0.0	9.60
45.0	9.60
90.0	9.54
135.0	9.66
180.0	9.54
225.0	9.48
270.0	9.42
315.0	9.48
360.0	9.60