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NT

Client:

LumCAT: 2-2748-L

Luminaire: 92.70.412.00

Report No: 2024806-B020

Ballast type: AC

Test No: 2024806-C020

Voltage(V): 34.930

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.450

Lamp flux(lm): 2571.0

Power (W): 15.718

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2441.31, Efficiency(%): 94.96% , Luminous Efficacy(lm/W): 155.32

Central intensity(cd): 11651.740, Maximum intensity(cd): 11651.740

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=18.4

[C90/270]Total=18.4

Field angle(10%Imax): [C0/180]Total=50.0

[C90/270]Total=50.0

Maximum s/h(1/2): C0_180=0.31 C90_270=0.31

Maximum s/h(1/4): C0_180=0.35 C90_270=0.35

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 94.96%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.894%

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	11651.742	0.000	0	0.00%	0.00%
1.0	11610.176	11.130	11.13	0.43%	0.46%
2.0	11340.446	32.941	44.071	1.28%	1.81%
3.0	10883.093	53.151	97.223	2.07%	3.98%
4.0	10256.390	70.761	167.983	2.75%	6.88%
5.0	9449.292	84.773	252.756	3.30%	10.35%
6.0	8586.085	94.781	347.537	3.69%	14.24%
7.0	7730.925	101.279	448.816	3.94%	18.38%
8.0	6844.089	104.311	553.127	4.06%	22.66%
9.0	5989.295	104.008	657.134	4.05%	26.92%
10.0	5283.148	102.011	759.146	3.97%	31.10%
11.0	4638.011	99.133	858.279	3.86%	35.16%
12.0	4062.442	95.108	953.387	3.70%	39.05%
13.0	3600.480	90.940	1044.327	3.54%	42.78%
14.0	3197.772	87.017	1131.344	3.38%	46.34%
15.0	2887.017	83.535	1214.878	3.25%	49.76%
16.0	2683.359	81.622	1296.5	3.17%	53.11%
17.0	2407.952	79.285	1375.785	3.08%	56.35%
18.0	2128.741	74.800	1450.586	2.91%	59.42%
19.0	1923.839	70.507	1521.092	2.74%	62.31%
20.0	1765.536	67.526	1588.618	2.63%	65.07%
21.0	1624.716	65.100	1653.718	2.53%	67.74%
22.0	1450.144	61.791	1715.508	2.40%	70.27%
23.0	1339.865	58.542	1774.05	2.28%	72.67%
24.0	1248.322	56.587	1830.637	2.20%	74.99%
25.0	1161.364	54.791	1885.428	2.13%	77.23%
26.0	1061.371	52.468	1937.896	2.04%	79.38%
27.0	967.231	49.630	1987.527	1.93%	81.41%
28.0	869.608	46.505	2034.031	1.81%	83.32%
29.0	764.911	42.764	2076.795	1.66%	85.07%
30.0	667.113	38.664	2115.459	1.50%	86.65%
31.0	569.051	34.401	2149.86	1.34%	88.06%
32.0	484.040	30.170	2180.03	1.17%	89.30%
33.0	404.515	26.177	2206.207	1.02%	90.37%
34.0	339.701	22.522	2228.729	0.88%	91.29%
35.0	287.887	19.491	2248.22	0.76%	92.09%
36.0	253.337	17.233	2265.452	0.67%	92.80%
37.0	216.387	15.320	2280.772	0.60%	93.42%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	172.912	12.994	2293.766	0.51%	93.96%
39.0	141.200	10.722	2304.488	0.42%	94.40%
40.0	118.245	9.049	2313.536	0.35%	94.77%
41.0	99.400	7.750	2321.287	0.30%	95.08%
42.0	83.994	6.663	2327.95	0.26%	95.36%
43.0	71.010	5.742	2333.691	0.22%	95.59%
44.0	61.419	4.998	2338.69	0.19%	95.80%
45.0	53.877	4.431	2343.121	0.17%	95.98%
46.0	48.157	3.990	2347.111	0.16%	96.14%
47.0	43.760	3.656	2350.767	0.14%	96.29%
48.0	40.680	3.414	2354.18	0.13%	96.43%
49.0	38.084	3.234	2357.415	0.13%	96.56%
50.0	36.123	3.094	2360.509	0.12%	96.69%
51.0	34.536	2.989	2363.498	0.12%	96.81%
52.0	33.372	2.914	2366.412	0.11%	96.93%
53.0	32.641	2.872	2369.284	0.11%	97.05%
54.0	32.268	2.861	2372.145	0.11%	97.17%
55.0	32.136	2.875	2375.02	0.11%	97.28%
56.0	32.195	2.907	2377.927	0.11%	97.40%
57.0	32.290	2.948	2380.875	0.11%	97.52%
58.0	32.370	2.990	2383.865	0.12%	97.65%
59.0	32.224	3.020	2386.885	0.12%	97.77%
60.0	31.770	3.023	2389.908	0.12%	97.89%
61.0	30.951	2.993	2392.901	0.12%	98.02%
62.0	29.444	2.910	2395.812	0.11%	98.14%
63.0	27.520	2.770	2398.582	0.11%	98.25%
64.0	25.362	2.595	2401.177	0.10%	98.36%
65.0	23.211	2.404	2403.581	0.09%	98.45%
66.0	21.192	2.215	2405.796	0.09%	98.55%
67.0	19.729	2.058	2407.854	0.08%	98.63%
68.0	18.478	1.935	2409.789	0.08%	98.71%
69.0	17.571	1.839	2411.629	0.07%	98.78%
70.0	16.803	1.765	2413.394	0.07%	98.86%
71.0	16.225	1.707	2415.101	0.07%	98.93%
72.0	15.735	1.662	2416.763	0.06%	98.99%
73.0	15.326	1.624	2418.387	0.06%	99.06%
74.0	14.960	1.592	2419.979	0.06%	99.13%
75.0	14.623	1.563	2421.542	0.06%	99.19%

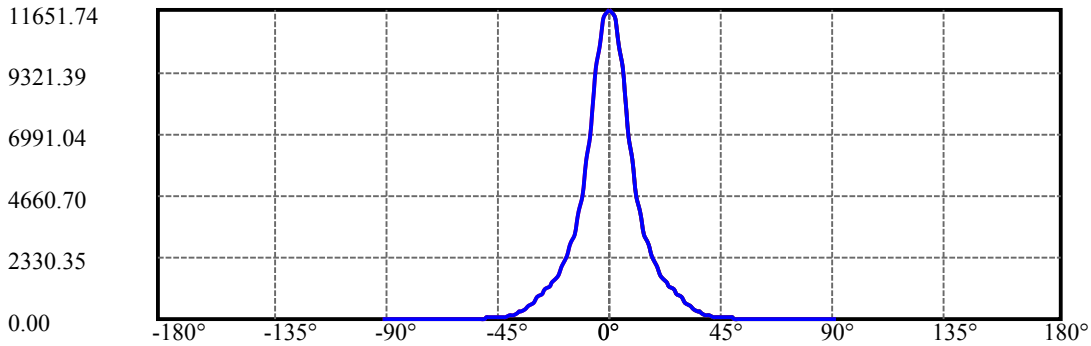
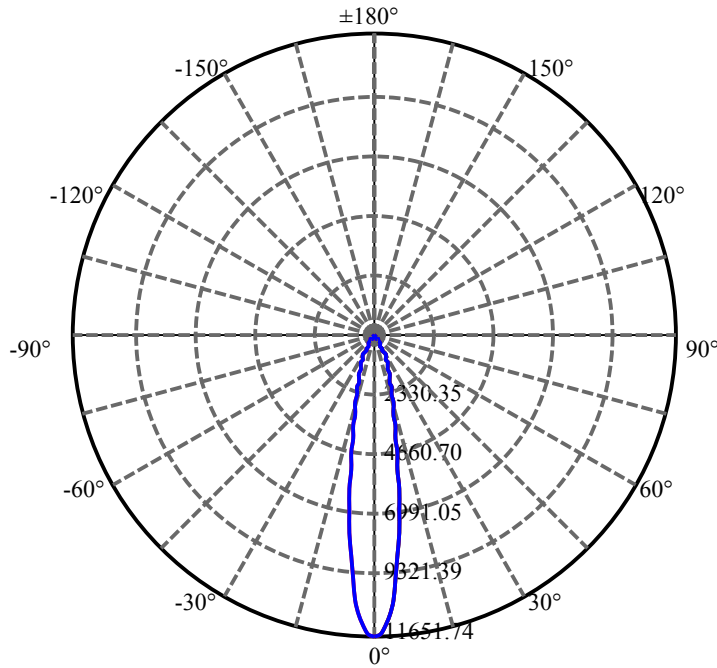
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.301	1.535	2423.078	0.06%	99.25%
77.0	13.987	1.508	2424.586	0.06%	99.31%
78.0	13.636	1.479	2426.065	0.06%	99.38%
79.0	13.270	1.446	2427.51	0.06%	99.43%
80.0	12.904	1.411	2428.921	0.05%	99.49%
81.0	12.546	1.376	2430.298	0.05%	99.55%
82.0	12.165	1.340	2431.638	0.05%	99.60%
83.0	11.843	1.305	2432.943	0.05%	99.66%
84.0	11.522	1.273	2434.216	0.05%	99.71%
85.0	11.229	1.242	2435.457	0.05%	99.76%
86.0	10.944	1.212	2436.669	0.05%	99.81%
87.0	10.746	1.187	2437.857	0.05%	99.86%
88.0	10.549	1.166	2439.023	0.05%	99.91%
89.0	10.432	1.150	2440.173	0.04%	99.95%
90.0	10.380	1.141	2441.314	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2115.46	82.28%	86.65%
0-40	2313.54	89.99%	94.77%
0-60	2389.91	92.96%	97.89%
0-90	2440.17	94.91%	99.95%
0-120	2440.17	94.91%	99.95%
0-180	2441.31	94.96%	100.00%
60-90	50.26	1.96%	2.06%
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%
0-26.31	1953.05	75.96%	80.00%

ZONAL LUMEN SUMMARY

0-10	759.15
10-20	829.47
20-30	526.84
30-40	198.08
40-50	46.97
50-60	29.40
60-70	23.49
70-80	15.53
80-90	11.25
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



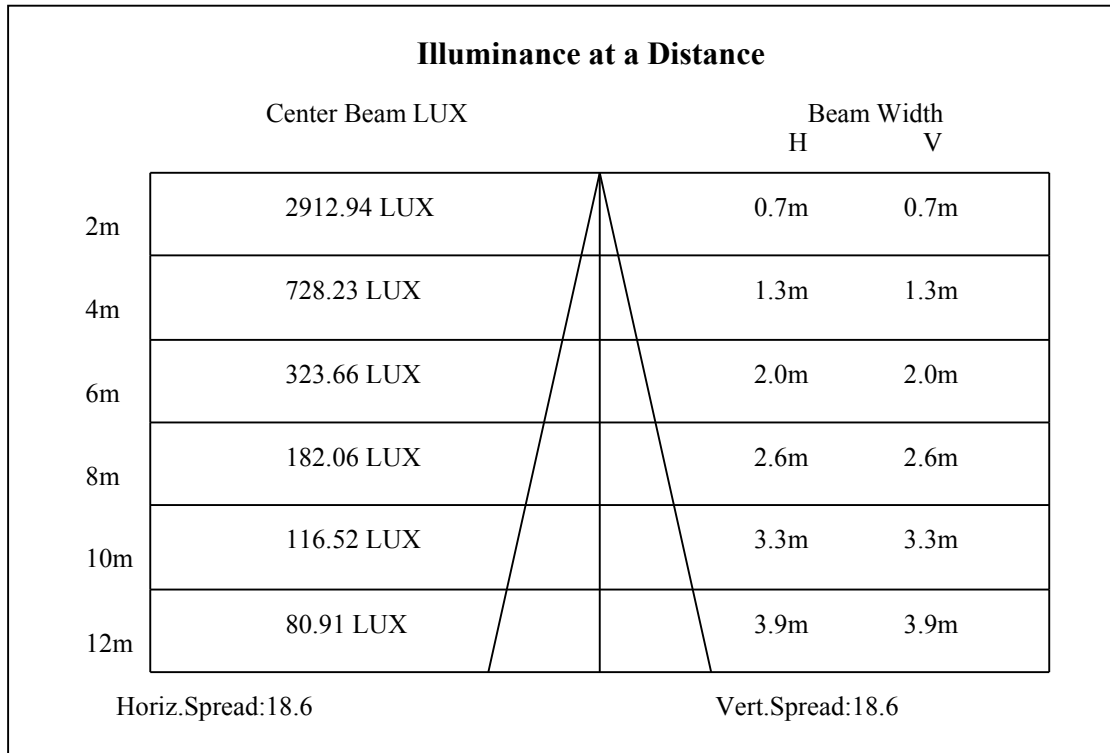
C0(Max): —————

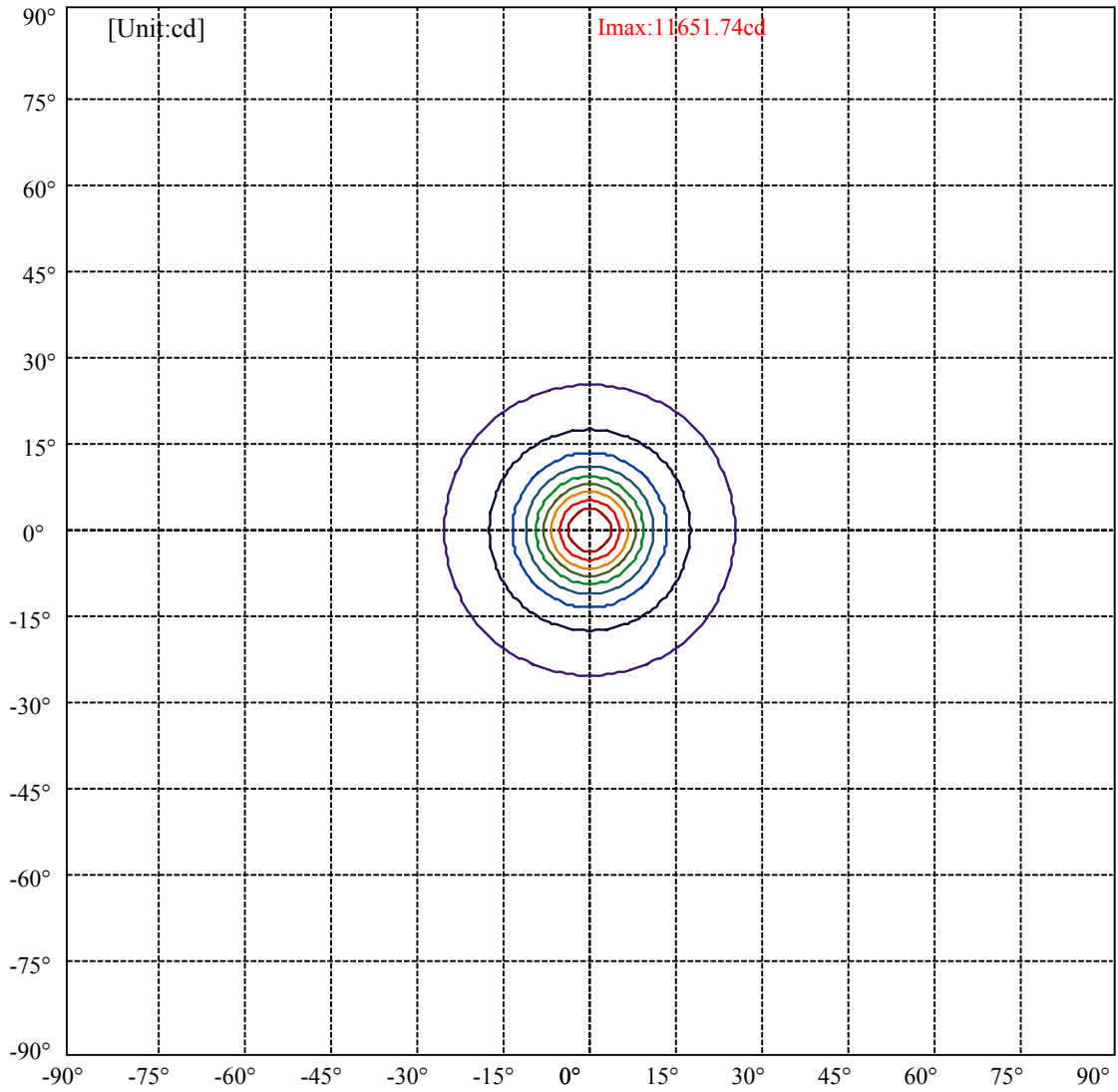
C0/C180: —————

C90/C270: —————

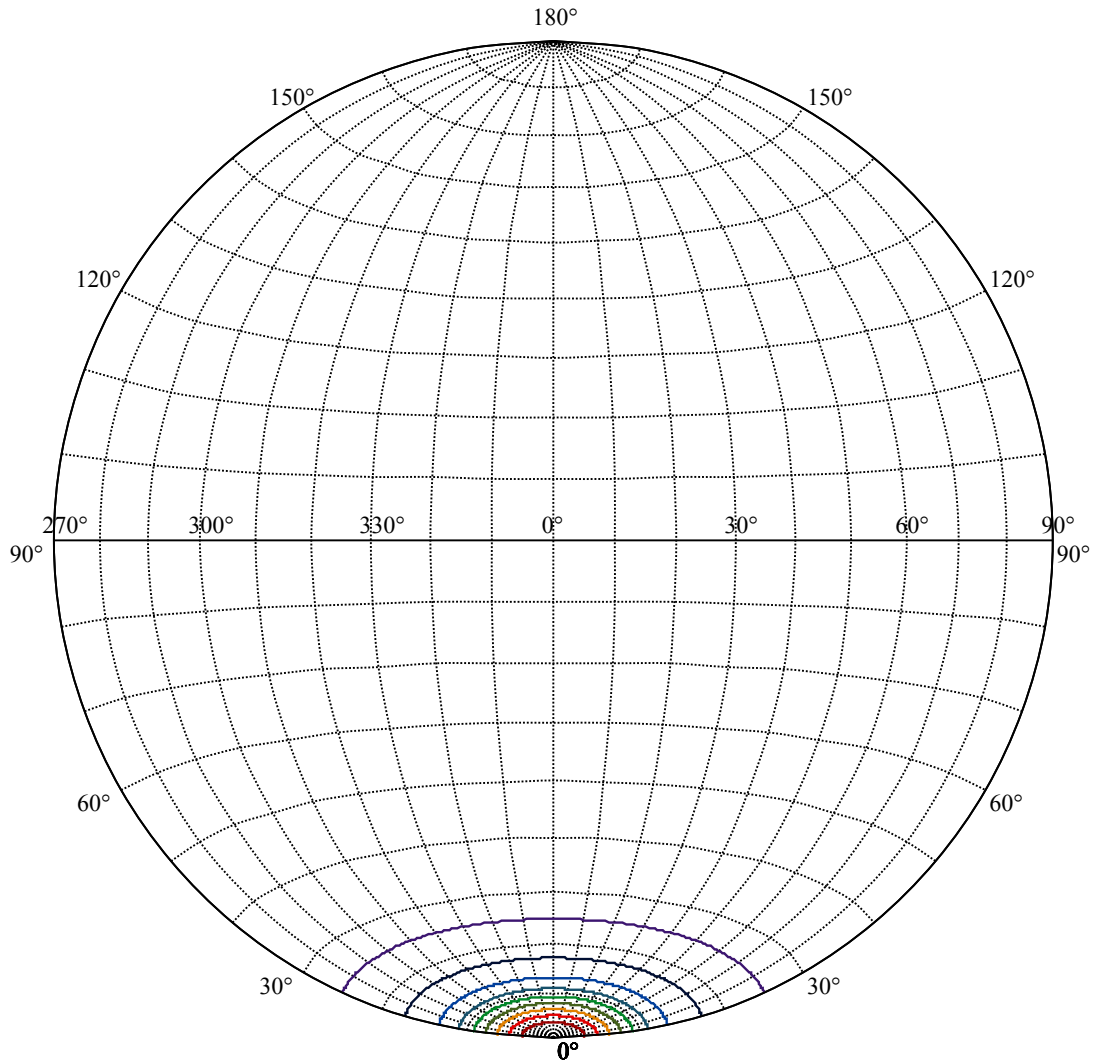
Field angle(10%Imax):C0/180Left:25.0 Right:25.0
:C90/270Left:25.0 Right:25.0

Beam Angle(50%Imax):C0/180Left:9.2 Right:9.2
:C90/270Left:9.2 Right:9.2





(10%Imax) 1165.17	—
(20%Imax) 2330.35	—
(30%Imax) 3495.52	—
(40%Imax) 4660.7	—
(50%Imax) 5825.87	—
(60%Imax) 6991.05	—
(70%Imax) 8156.22	—
(80%Imax) 9321.39	—
(90%Imax) 10486.6	—



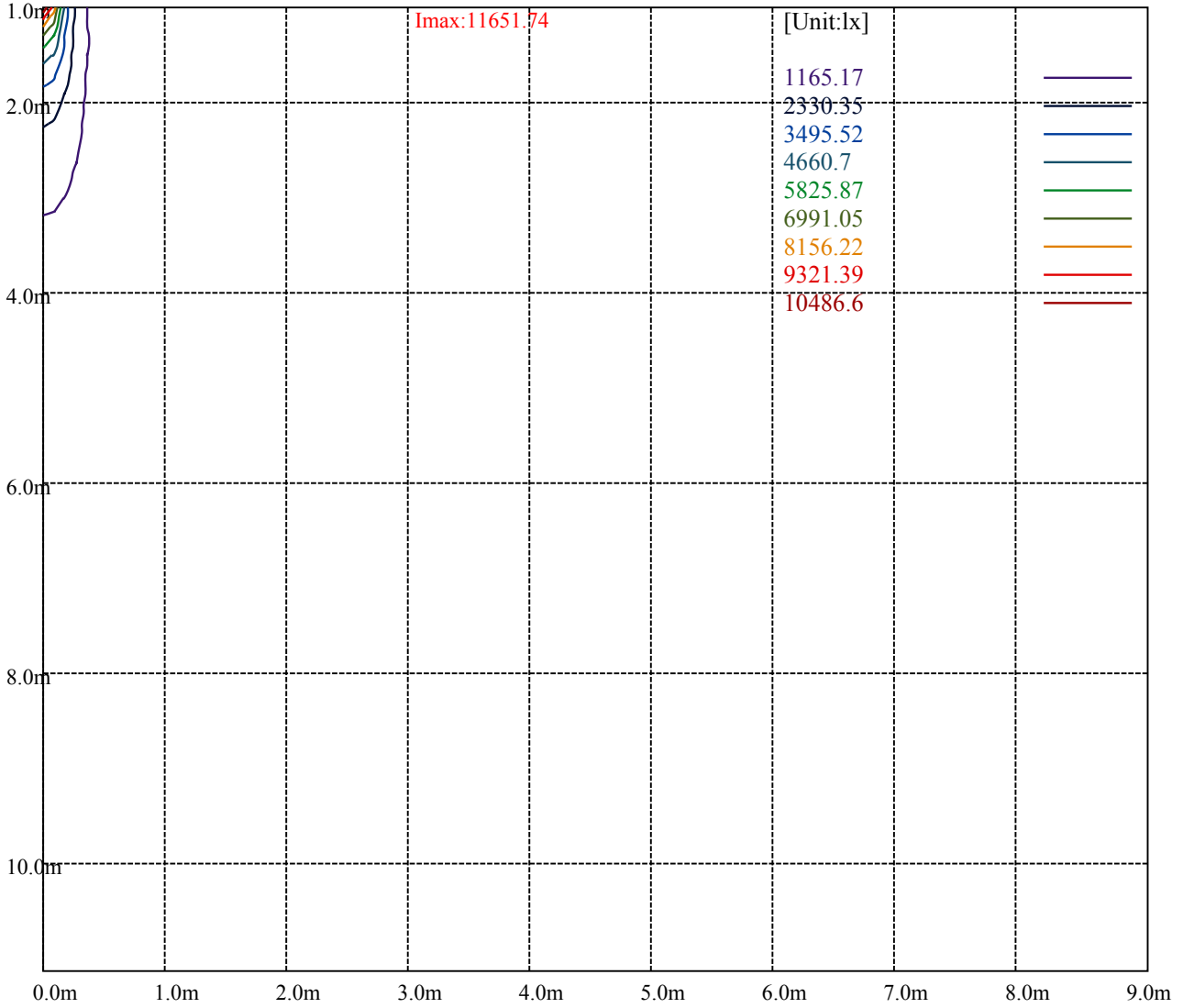
House

[Unit:cd]

Road

Imax:11651.74

(10%Imax)	1165.17	—
(20%Imax)	2330.35	—
(30%Imax)	3495.52	—
(40%Imax)	4660.7	—
(50%Imax)	5825.87	—
(60%Imax)	6991.05	—
(70%Imax)	8156.22	—
(80%Imax)	9321.39	—
(90%Imax)	10486.6	—



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

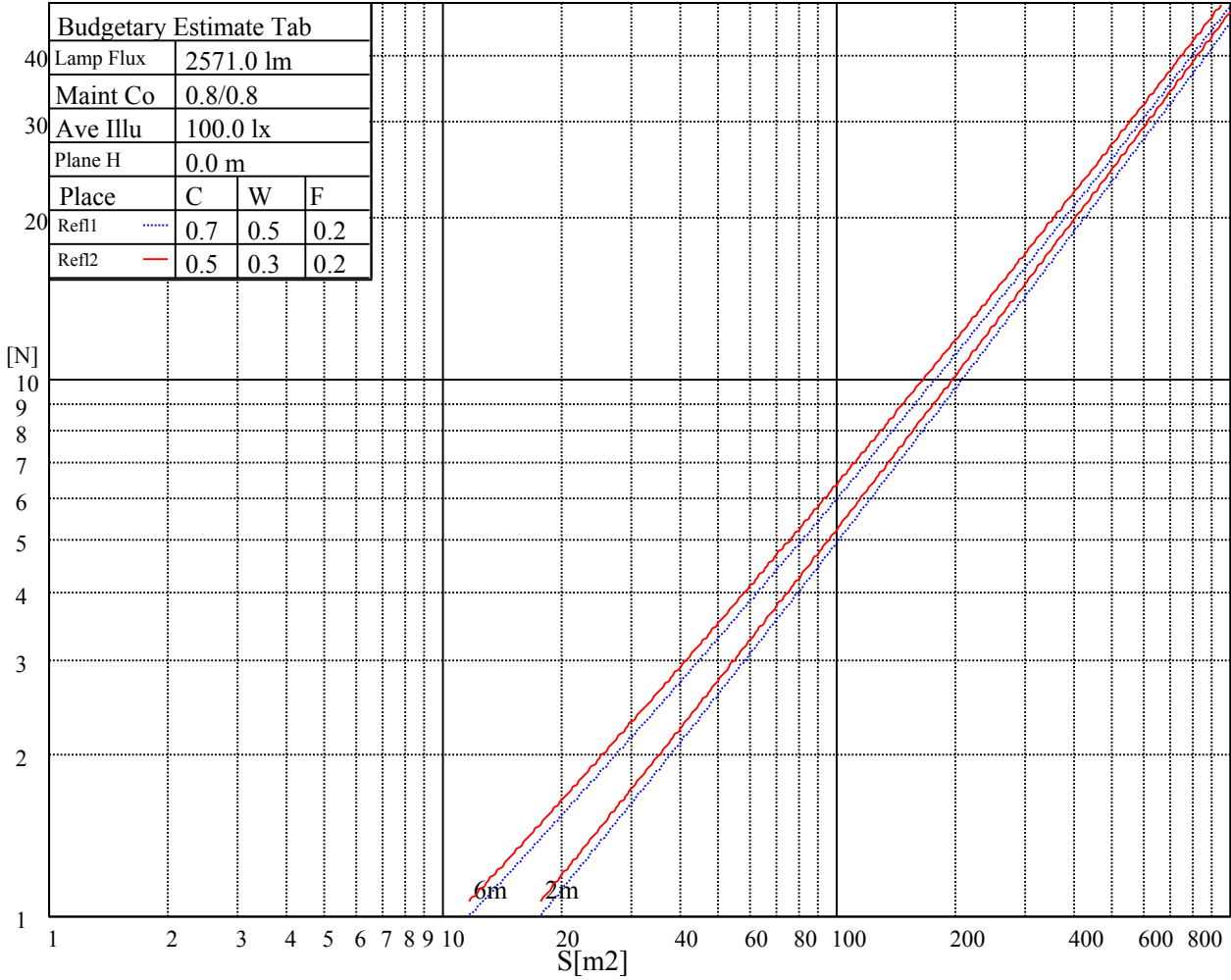
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

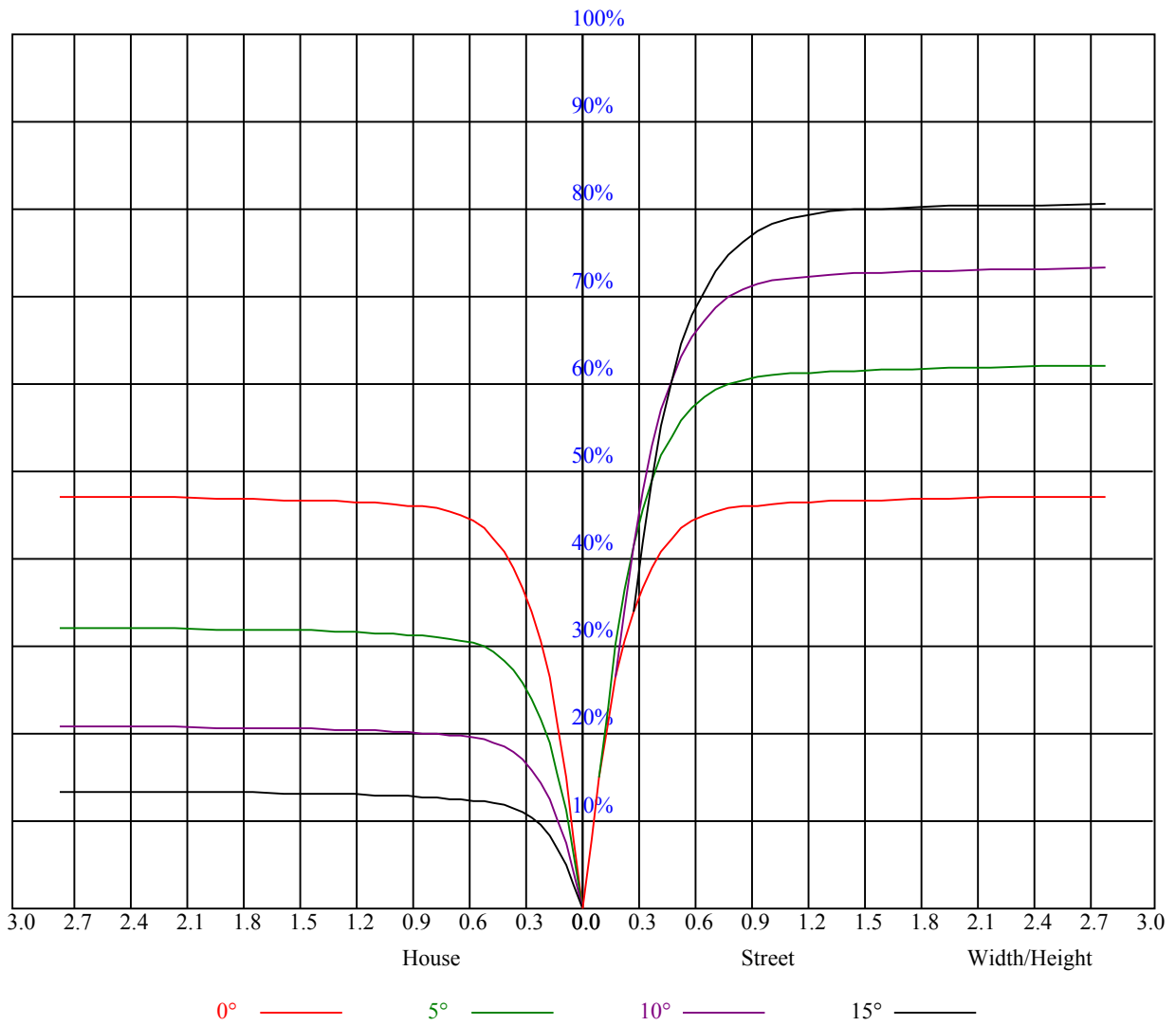


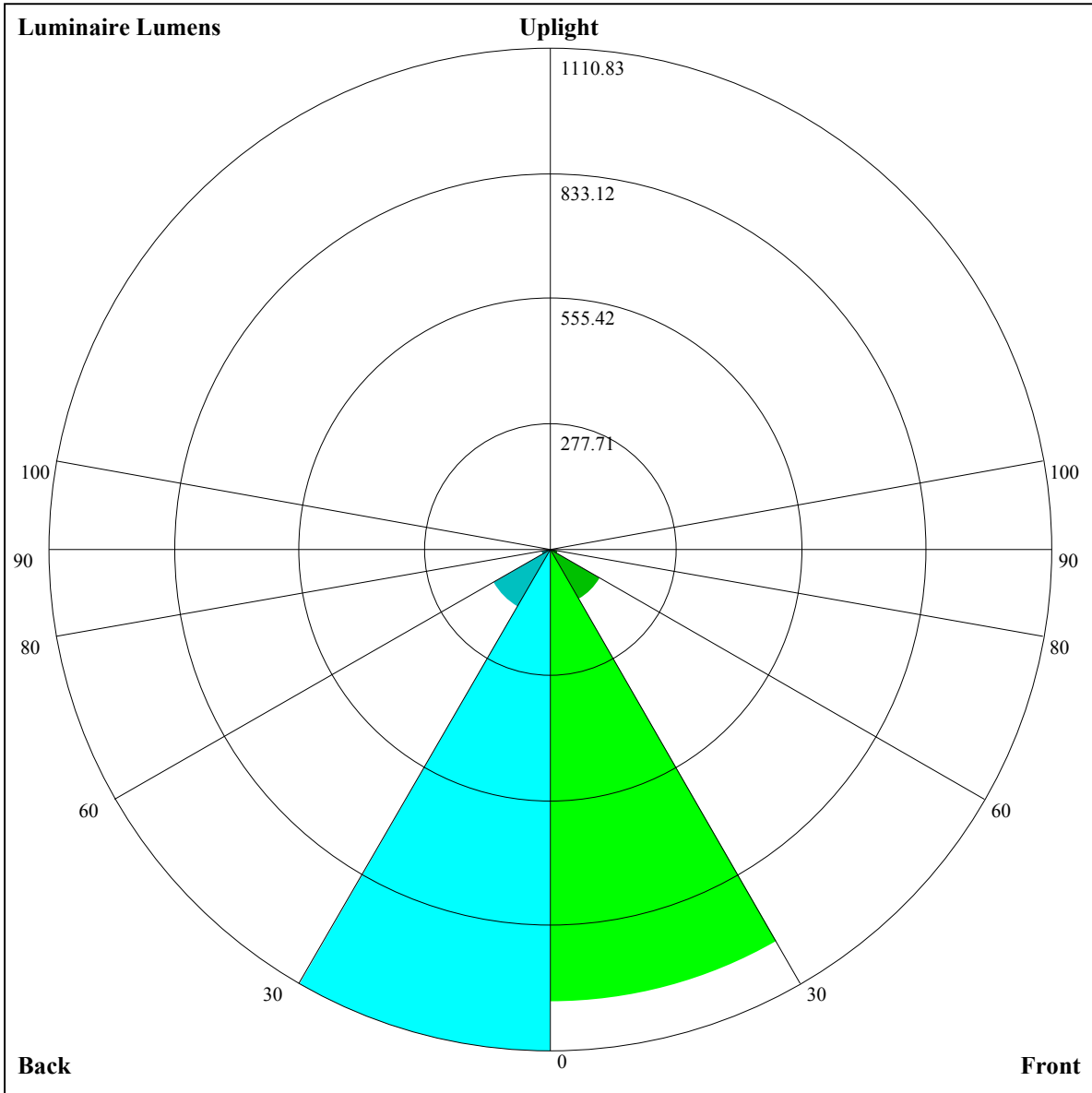
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.13	1.13	1.13	1.10	1.10	1.10	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.06	1.04	1.02	1.04	1.02	1.00	1.00	0.99	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.90
2	1.00	0.97	0.94	0.99	0.96	0.93	0.96	0.93	0.91	0.93	0.91	0.89	0.90	0.89	0.87	0.86
3	0.95	0.91	0.88	0.94	0.90	0.87	0.91	0.88	0.86	0.89	0.87	0.85	0.87	0.85	0.83	0.82
4	0.91	0.86	0.83	0.90	0.86	0.83	0.88	0.84	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.79
5	0.87	0.82	0.79	0.86	0.82	0.78	0.84	0.81	0.78	0.83	0.80	0.77	0.81	0.79	0.77	0.75
6	0.83	0.79	0.75	0.82	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.72
7	0.80	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.70
8	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.67
9	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.72	0.68	0.66	0.65
10	0.72	0.67	0.65	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.63





Luminaire Lumens:

FL=1004.28,FM=127.4,FH=19.05,FVH=6.16

BL=1110.83,BM=148.62,BH=19.95,BVH=6.26

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	11675.88	11313.63	10793.36	10136.16	9368.93	8336.59	7486.84	6662.26	5713.61
45.0	11671.20	12006.48	11585.11	11222.27	10537.56	9829.44	9039.39	8009.39	7190.07
90.0	11660.67	11660.67	11395.56	10950.20	10342.74	9622.91	8640.32	7796.43	6979.45
135.0	11599.22	11599.22	11836.76	11661.19	11274.94	10596.08	9893.81	9127.17	8085.47
180.0	11675.88	11675.88	11825.06	11596.82	11081.82	10496.60	9618.76	8811.15	7962.57
225.0	11671.20	11591.02	11218.24	10703.82	10048.96	9089.77	8257.58	7399.64	6364.38
270.0	11660.67	11743.12	11456.36	10882.84	10285.91	9560.24	8559.50	7687.52	6850.64
315.0	11599.22	11291.39	10613.11	9911.43	9110.26	8062.70	7192.47	6353.85	5606.51
360.0	11675.88	11313.63	10793.36	10136.16	9368.93	8336.59	7486.84	6662.26	5713.61
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5040.02	4457.13	3837.38	3435.33	3102.34	2735.40	2480.83	2255.52	2019.08
45.0	6400.02	5516.33	4872.58	4310.77	3737.25	3351.00	3023.27	3023.27	2414.11
90.0	6015.59	5323.85	4695.32	4034.01	3600.95	3243.96	2855.37	2584.41	2346.81
135.0	7254.45	6470.25	5750.42	4919.40	4351.73	3854.29	3450.49	3023.27	3023.27
180.0	6926.72	6136.67	5405.14	4761.39	4199.57	3626.05	3251.51	3005.72	3005.72
225.0	5616.46	4946.38	4227.72	3747.84	3352.81	2943.16	2659.91	2408.84	2184.70
270.0	5885.02	5188.60	4556.56	3918.67	3491.45	3140.32	2988.16	2988.16	2278.92
315.0	4776.08	4225.97	3758.96	3372.12	2967.73	2688.00	2386.61	2177.68	1990.99
360.0	5040.02	4457.13	3837.38	3435.33	3102.34	2735.40	2480.83	2255.52	2019.08
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1861.07	1721.21	1591.87	1447.32	1160.56	1160.56	1136.74	1021.74	931.62
45.0	2201.09	2022.01	1823.62	1687.85	1563.19	1449.08	1318.57	1220.25	1126.03
90.0	2093.99	1923.69	1775.63	1642.79	1491.21	1380.02	1164.66	1164.66	1075.35
135.0	2704.38	2209.28	2028.45	1873.36	1701.31	1581.92	1470.73	1340.22	1244.83
180.0	2333.94	2132.62	1959.39	1766.27	1635.76	1486.53	1381.19	1283.46	1165.24
225.0	1955.88	1801.38	1665.02	1542.13	1402.84	1155.00	1155.00	1085.88	999.92
270.0	2082.29	1916.67	1739.93	1610.01	1490.04	1349.59	1249.51	1158.22	1047.03
315.0	1797.28	1663.85	1540.37	1428.01	1156.23	1156.23	1110.17	1016.48	900.95
360.0	1861.07	1721.21	1591.87	1447.32	1160.56	1160.56	1136.74	1021.74	931.62
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	841.44	726.15	632.51	542.62	440.44	371.03	314.32	257.62	218.52
45.0	1011.91	915.94	800.65	709.94	617.47	529.10	429.61	363.48	309.06
90.0	987.68	897.91	784.20	692.96	579.72	493.52	417.73	353.48	287.58
135.0	1150.03	1055.22	938.17	846.29	749.73	655.51	543.15	461.22	389.82
180.0	1075.12	989.67	905.40	786.60	691.21	601.08	510.37	411.47	347.68
225.0	911.20	801.06	706.60	616.24	504.87	423.64	356.87	303.50	250.53
270.0	953.39	860.92	739.20	640.88	546.66	441.90	372.85	317.84	295.01
315.0	807.08	709.99	612.56	501.36	422.30	356.52	291.21	249.01	204.89
360.0	841.44	726.15	632.51	542.62	440.44	371.03	314.32	257.62	218.52
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	185.75	157.72	128.40	108.62	92.58	79.24	65.95	57.76	51.50
45.0	296.77	242.87	179.55	151.28	127.75	104.05	88.66	75.96	63.56
90.0	243.45	204.89	172.58	137.76	116.05	98.32	83.51	68.71	59.63
135.0	318.42	305.55	251.12	185.11	156.14	131.32	106.69	90.71	77.54
180.0	297.35	297.35	204.95	175.27	142.21	120.26	102.30	84.04	72.16
225.0	215.19	184.58	158.48	130.62	111.54	91.70	78.83	68.35	58.23
270.0	295.01	189.50	161.76	137.59	111.95	94.86	80.70	66.95	58.76
315.0	174.75	148.65	126.47	103.35	87.73	75.44	65.31	55.60	49.98
360.0	185.75	157.72	128.40	108.62	92.58	79.24	65.95	57.76	51.50

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	45.65	42.02	38.92	36.93	35.00	33.36	32.60	31.89	31.49
45.0	55.71	48.75	44.48	41.26	38.92	36.28	34.47	33.42	32.71
90.0	51.09	46.12	42.25	39.15	37.16	35.29	33.83	32.89	32.19
135.0	66.89	56.71	50.56	45.82	41.67	39.44	37.28	35.00	34.00
180.0	63.03	55.48	48.69	44.36	41.26	39.03	36.46	34.65	33.47
225.0	52.09	47.40	42.96	40.44	38.22	36.17	34.47	33.71	32.83
270.0	50.97	46.58	43.01	40.38	37.75	35.87	34.35	33.53	32.66
315.0	45.59	42.19	39.21	37.10	34.70	33.53	32.83	31.89	31.78
360.0	45.65	42.02	38.92	36.93	35.00	33.36	32.60	31.89	31.49
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	31.72	31.95	31.95	32.13	32.36	31.78	30.84	29.44	27.33
45.0	32.01	31.89	32.25	32.36	32.48	32.77	32.54	31.60	30.49
90.0	31.72	31.78	32.07	32.13	32.30	32.48	31.95	30.84	29.38
135.0	33.36	32.42	32.19	32.54	32.66	32.71	33.07	33.30	32.30
180.0	32.66	31.95	31.78	32.07	32.07	32.01	32.30	32.25	31.43
225.0	32.36	32.60	32.66	32.42	32.48	32.36	31.43	30.31	28.97
270.0	32.30	32.42	32.54	32.30	32.36	32.36	31.78	30.84	29.44
315.0	32.01	32.07	32.13	32.36	32.25	31.31	30.26	29.03	26.22
360.0	31.72	31.95	31.95	32.13	32.36	31.78	30.84	29.44	27.33
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	24.99	22.65	20.78	19.43	18.14	17.32	16.68	16.15	15.63
45.0	28.44	25.93	23.88	21.59	20.01	18.90	17.91	16.97	16.44
90.0	27.51	25.16	22.77	21.01	19.55	18.26	17.44	16.80	16.21
135.0	31.25	29.85	27.33	24.40	22.59	20.54	18.90	17.91	17.03
180.0	30.14	28.44	25.87	23.29	21.36	19.66	18.61	17.50	16.80
225.0	26.69	23.94	22.06	20.25	18.96	17.79	17.09	16.50	15.98
270.0	27.21	24.87	23.12	20.78	19.37	18.38	17.56	16.74	16.21
315.0	23.94	22.06	19.90	18.79	17.85	16.97	16.39	15.86	15.51
360.0	24.99	22.65	20.78	19.43	18.14	17.32	16.68	16.15	15.63
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.22	14.86	14.63	14.28	13.99	13.58	13.28	12.93	12.47
45.0	15.98	15.57	15.10	14.75	14.40	14.16	13.81	13.40	13.11
90.0	15.68	15.27	14.98	14.69	14.34	14.05	13.58	13.23	12.87
135.0	16.44	15.92	15.51	15.10	14.75	14.51	14.22	13.81	13.46
180.0	16.27	15.80	15.33	14.92	14.63	14.28	13.99	13.64	13.28
225.0	15.45	15.10	14.69	14.40	14.16	13.75	13.40	13.11	12.76
270.0	15.80	15.33	14.98	14.63	14.34	14.05	13.64	13.28	12.93
315.0	15.04	14.75	14.46	14.22	13.81	13.52	13.17	12.76	12.35
360.0	15.22	14.86	14.63	14.28	13.99	13.58	13.28	12.93	12.47
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.17	11.82	11.53	11.24	11.00	10.71	10.53	10.36	10.42
45.0	12.70	12.29	11.94	11.65	11.29	11.00	10.83	10.59	10.42
90.0	12.47	12.17	11.88	11.47	11.24	10.94	10.83	10.53	10.42
135.0	13.17	12.70	12.29	11.94	11.59	11.29	11.06	10.83	10.65
180.0	12.93	12.47	12.11	11.82	11.47	11.18	10.89	10.71	10.48
225.0	12.35	11.94	11.70	11.29	11.06	10.77	10.59	10.42	10.24
270.0	12.52	12.17	11.82	11.53	11.29	10.94	10.71	10.53	10.42
315.0	12.06	11.76	11.47	11.24	10.89	10.71	10.53	10.42	10.42
360.0	12.17	11.82	11.53	11.24	11.00	10.71	10.53	10.36	10.42

Intensity data(cd)

C/ γ ($^{\circ}$)	90.0
0.0	10.42
45.0	10.30
90.0	10.30
135.0	10.48
180.0	10.36
225.0	10.36
270.0	10.42
315.0	10.42
360.0	10.42