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NT

Client:

LumCAT: 2-2686-L

Luminaire: 92.70.429.00

Report No: 2024411-B005

Ballast type: AC

Test No: 2024411-C005

Voltage(V): 34.740

LampCAT: CREE CXA1830 LES14

Current(A): 0.530

Lamp flux(lm): 2685.0

Power (W): 18.412

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 2276.89, Efficiency(%): 84.80% , Luminous Efficacy(lm/W): 123.66

Central intensity(cd): 12520.010, Maximum intensity(cd): 12520.010

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

Beam Angle(50%Imax): [C0/180]Total=18.2

[C90/270]Total=18.2

Field angle(10%Imax): [C0/180]Total=44.2

[C90/270]Total=44.2

Maximum s/h(1/2): C0\_180=0.31 C90\_270=0.31

Maximum s/h(1/4): C0\_180=0.33 C90\_270=0.33

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 84.80%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.123%

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2024/4/11  
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	12520.011	0.000	0	0.00%	0.00%
1.0	12296.397	11.874	11.874	0.44%	0.52%
2.0	11943.008	34.791	46.665	1.30%	2.05%
3.0	11603.285	56.315	102.98	2.10%	4.52%
4.0	11000.504	75.662	178.642	2.82%	7.85%
5.0	10210.450	91.248	269.89	3.40%	11.85%
6.0	9275.480	102.404	372.294	3.81%	16.35%
7.0	8267.795	108.891	481.185	4.06%	21.13%
8.0	7298.809	111.407	592.592	4.15%	26.03%
9.0	6339.552	110.532	703.124	4.12%	30.88%
10.0	5453.960	106.727	809.851	3.97%	35.57%
11.0	4604.726	100.507	910.358	3.74%	39.98%
12.0	3919.793	93.185	1003.543	3.47%	44.08%
13.0	3366.463	86.470	1090.012	3.22%	47.87%
14.0	2944.150	80.775	1170.788	3.01%	51.42%
15.0	2718.692	77.742	1248.53	2.90%	54.83%
16.0	2398.003	74.974	1323.504	2.79%	58.13%
17.0	2078.558	69.712	1393.216	2.60%	61.19%
18.0	1859.026	64.922	1458.138	2.42%	64.04%
19.0	1697.504	61.876	1520.014	2.30%	66.76%
20.0	1549.222	59.424	1579.438	2.21%	69.37%
21.0	1389.865	56.436	1635.875	2.10%	71.85%
22.0	1255.542	53.161	1689.035	1.98%	74.18%
23.0	1189.697	51.308	1740.343	1.91%	76.44%
24.0	1104.122	50.151	1790.494	1.87%	78.64%
25.0	1018.657	48.267	1838.762	1.80%	80.76%
26.0	928.145	45.954	1884.716	1.71%	82.78%
27.0	831.627	43.053	1927.769	1.60%	84.67%
28.0	733.587	39.628	1967.397	1.48%	86.41%
29.0	643.140	36.019	2003.416	1.34%	87.99%
30.0	555.964	32.376	2035.792	1.21%	89.41%
31.0	472.745	28.627	2064.419	1.07%	90.67%
32.0	398.677	24.965	2089.384	0.93%	91.76%
33.0	334.851	21.610	2110.994	0.80%	92.71%
34.0	282.276	18.676	2129.671	0.70%	93.53%
35.0	240.842	16.246	2145.917	0.61%	94.25%
36.0	189.532	13.703	2159.62	0.51%	94.85%
37.0	141.178	10.786	2170.406	0.40%	95.32%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	112.253	8.459	2178.865	0.32%	95.69%
39.0	88.427	6.850	2185.715	0.26%	96.00%
40.0	69.261	5.500	2191.214	0.20%	96.24%
41.0	55.289	4.435	2195.65	0.17%	96.43%
42.0	45.501	3.662	2199.311	0.14%	96.59%
43.0	38.420	3.109	2202.42	0.12%	96.73%
44.0	33.555	2.717	2205.137	0.10%	96.85%
45.0	30.088	2.446	2207.583	0.09%	96.96%
46.0	27.571	2.255	2209.838	0.08%	97.06%
47.0	25.487	2.110	2211.948	0.08%	97.15%
48.0	23.760	1.991	2213.939	0.07%	97.24%
49.0	22.319	1.892	2215.831	0.07%	97.32%
50.0	21.083	1.810	2217.64	0.07%	97.40%
51.0	20.073	1.741	2219.382	0.06%	97.47%
52.0	19.312	1.690	2221.072	0.06%	97.55%
53.0	18.683	1.653	2222.725	0.06%	97.62%
54.0	18.230	1.627	2224.352	0.06%	97.69%
55.0	17.901	1.613	2225.964	0.06%	97.76%
56.0	17.703	1.609	2227.573	0.06%	97.83%
57.0	17.645	1.616	2229.189	0.06%	97.91%
58.0	17.645	1.632	2230.821	0.06%	97.98%
59.0	17.769	1.656	2232.477	0.06%	98.05%
60.0	17.923	1.686	2234.163	0.06%	98.12%
61.0	18.040	1.716	2235.879	0.06%	98.20%
62.0	18.054	1.739	2237.618	0.06%	98.28%
63.0	17.908	1.749	2239.367	0.07%	98.35%
64.0	17.549	1.740	2241.107	0.06%	98.43%
65.0	17.030	1.711	2242.819	0.06%	98.50%
66.0	16.379	1.667	2244.485	0.06%	98.58%
67.0	15.706	1.613	2246.099	0.06%	98.65%
68.0	15.048	1.558	2247.657	0.06%	98.72%
69.0	14.470	1.506	2249.163	0.06%	98.78%
70.0	14.002	1.462	2250.625	0.05%	98.85%
71.0	13.650	1.429	2252.054	0.05%	98.91%
72.0	13.372	1.405	2253.459	0.05%	98.97%
73.0	13.328	1.396	2254.855	0.05%	99.03%
74.0	13.599	1.416	2256.271	0.05%	99.09%
75.0	14.031	1.460	2257.731	0.05%	99.16%

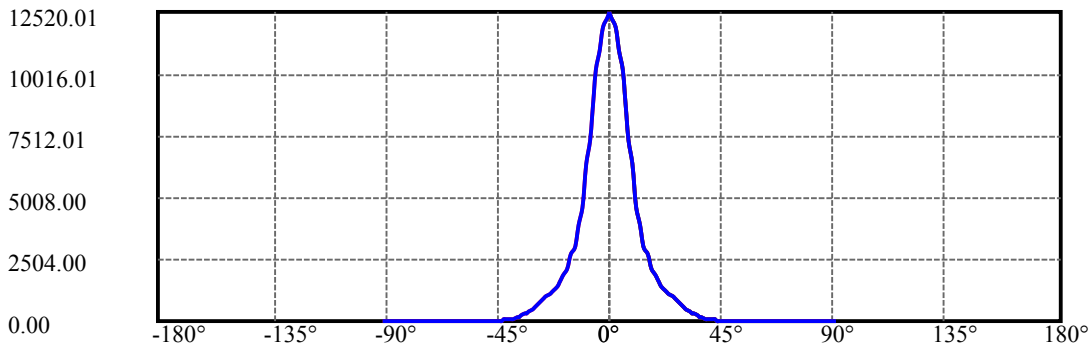
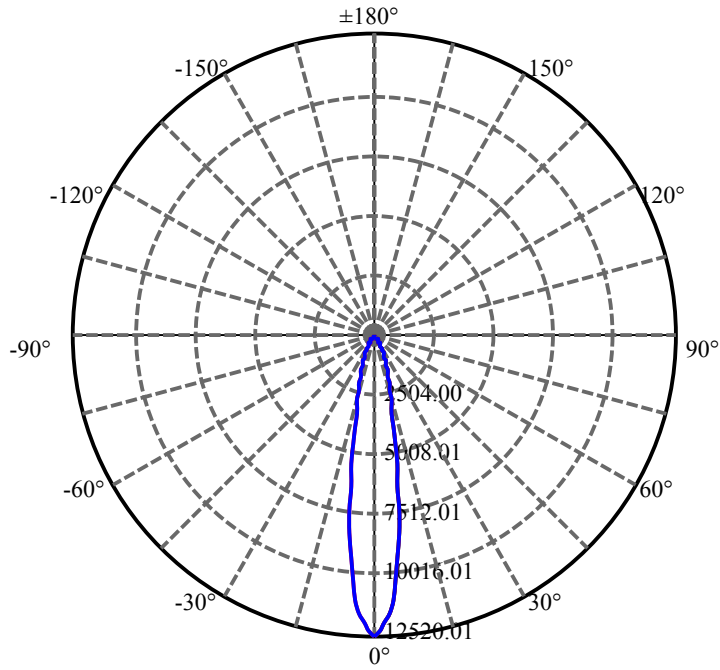
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.265	1.502	2259.233	0.06%	99.22%
77.0	14.265	1.521	2260.754	0.06%	99.29%
78.0	14.067	1.517	2262.271	0.06%	99.36%
79.0	13.577	1.485	2263.756	0.06%	99.42%
80.0	12.853	1.425	2265.181	0.05%	99.49%
81.0	12.056	1.347	2266.528	0.05%	99.54%
82.0	11.302	1.267	2267.795	0.05%	99.60%
83.0	10.995	1.212	2269.007	0.05%	99.65%
84.0	10.812	1.188	2270.195	0.04%	99.71%
85.0	10.585	1.168	2271.362	0.04%	99.76%
86.0	10.293	1.141	2272.504	0.04%	99.81%
87.0	10.102	1.116	2273.62	0.04%	99.86%
88.0	9.978	1.100	2274.72	0.04%	99.90%
89.0	9.883	1.089	2275.808	0.04%	99.95%
90.0	9.824	1.081	2276.889	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2035.79	75.82%	89.41%
0-40	2191.21	81.61%	96.24%
0-60	2234.16	83.21%	98.12%
0-90	2275.81	84.76%	99.95%
0-120	2275.81	84.76%	99.95%
0-180	2276.89	84.80%	100.00%
60-90	41.65	1.55%	1.83%
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%
0-24.64	1821.51	67.84%	80.00%

ZONAL LUMEN SUMMARY

0-10	809.85
10-20	769.59
20-30	456.35
30-40	155.42
40-50	26.43
50-60	16.52
60-70	16.46
70-80	14.56
80-90	10.63
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



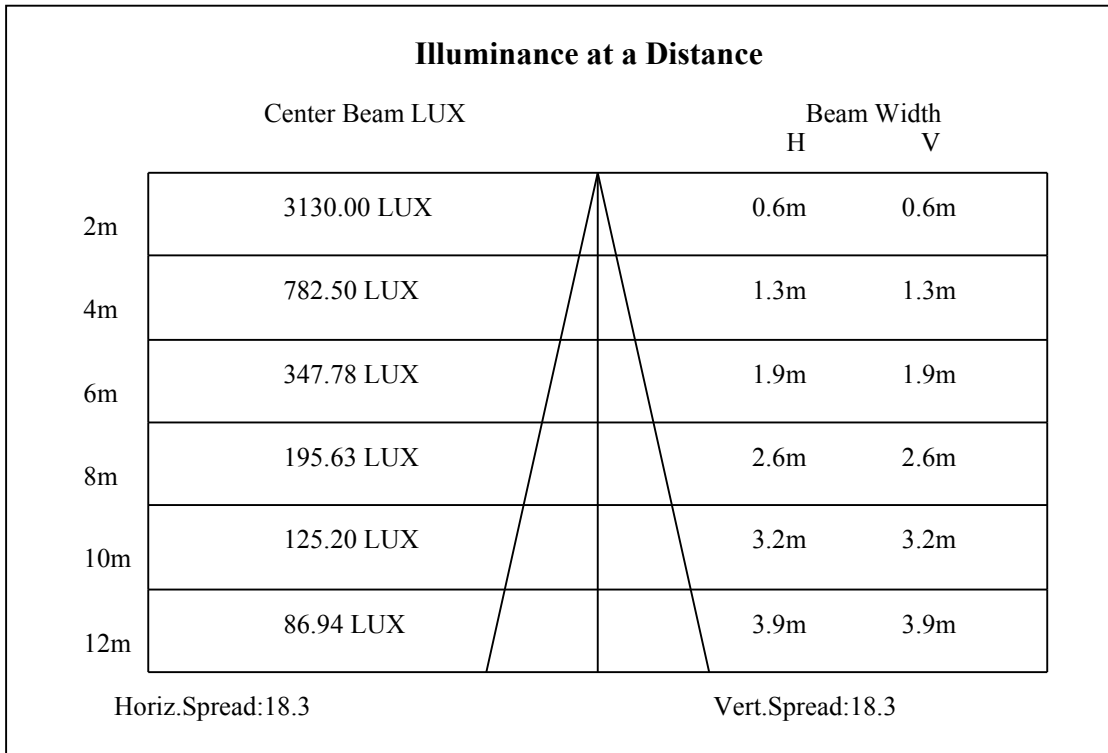
C0(Max): —————

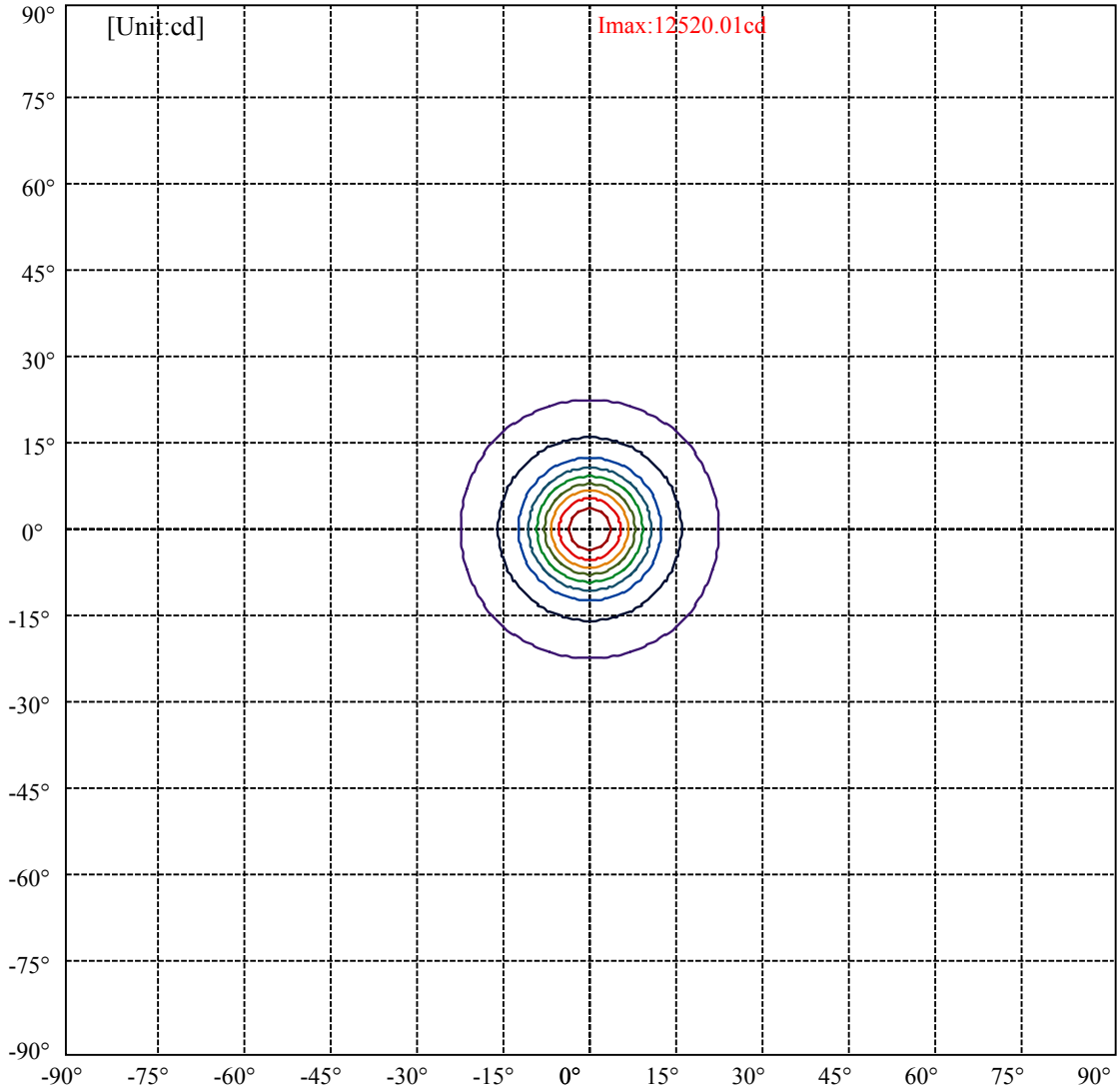
C0/C180: —————

C90/C270: —————

Field angle(10%Imax):C0/180Left:22.1 Right:22.1  
:C90/270Left:22.1 Right:22.1

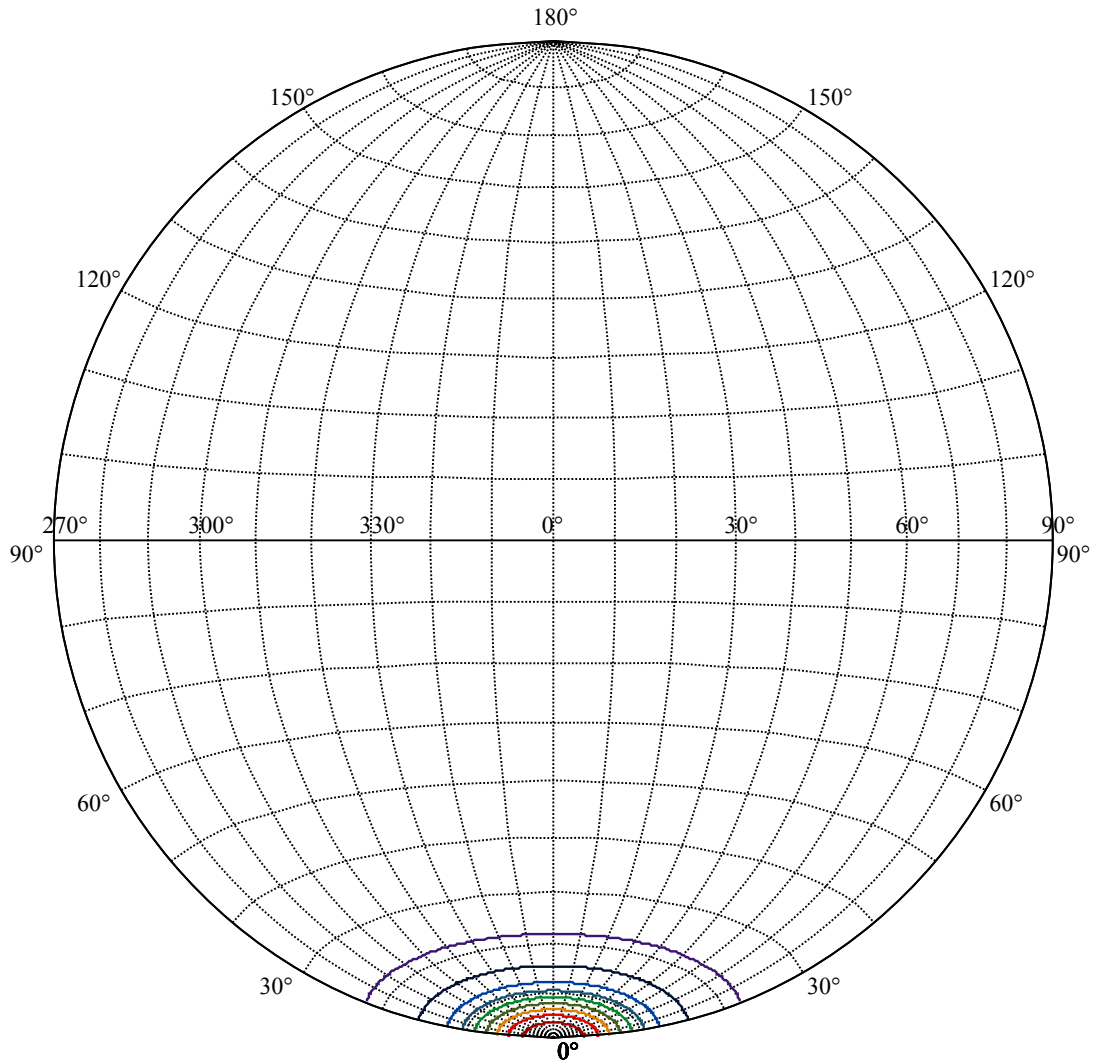
Beam Angle(50%Imax):C0/180Left:9.1 Right:9.1  
:C90/270Left:9.1 Right:9.1





(10%I <sub>max</sub> ) 1252	—
(20%I <sub>max</sub> ) 2504	—
(30%I <sub>max</sub> ) 3756	—
(40%I <sub>max</sub> ) 5008	—
(50%I <sub>max</sub> ) 6260.01	—
(60%I <sub>max</sub> ) 7512.01	—
(70%I <sub>max</sub> ) 8764.01	—
(80%I <sub>max</sub> ) 10016	—
(90%I <sub>max</sub> ) 11268	—





House

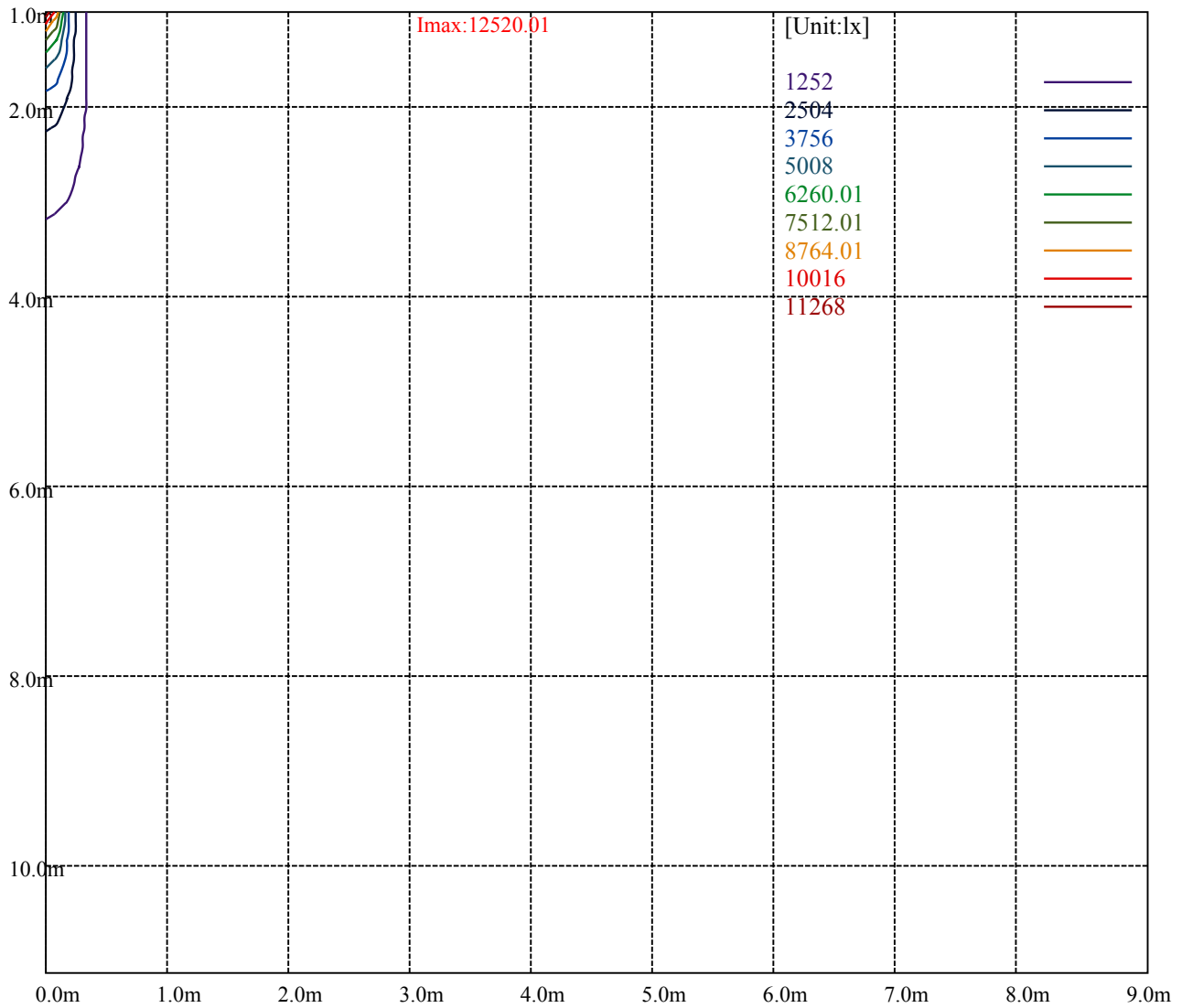
[Unit:cd]

Road

**Imax:12520.01**

(10%Imax) 1252	—
(20%Imax) 2504	—
(30%Imax) 3756	—
(40%Imax) 5008	—
(50%Imax) 6260.01	—
(60%Imax) 7512.01	—
(70%Imax) 8764.01	—
(80%Imax) 10016	—
(90%Imax) 11268	—





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

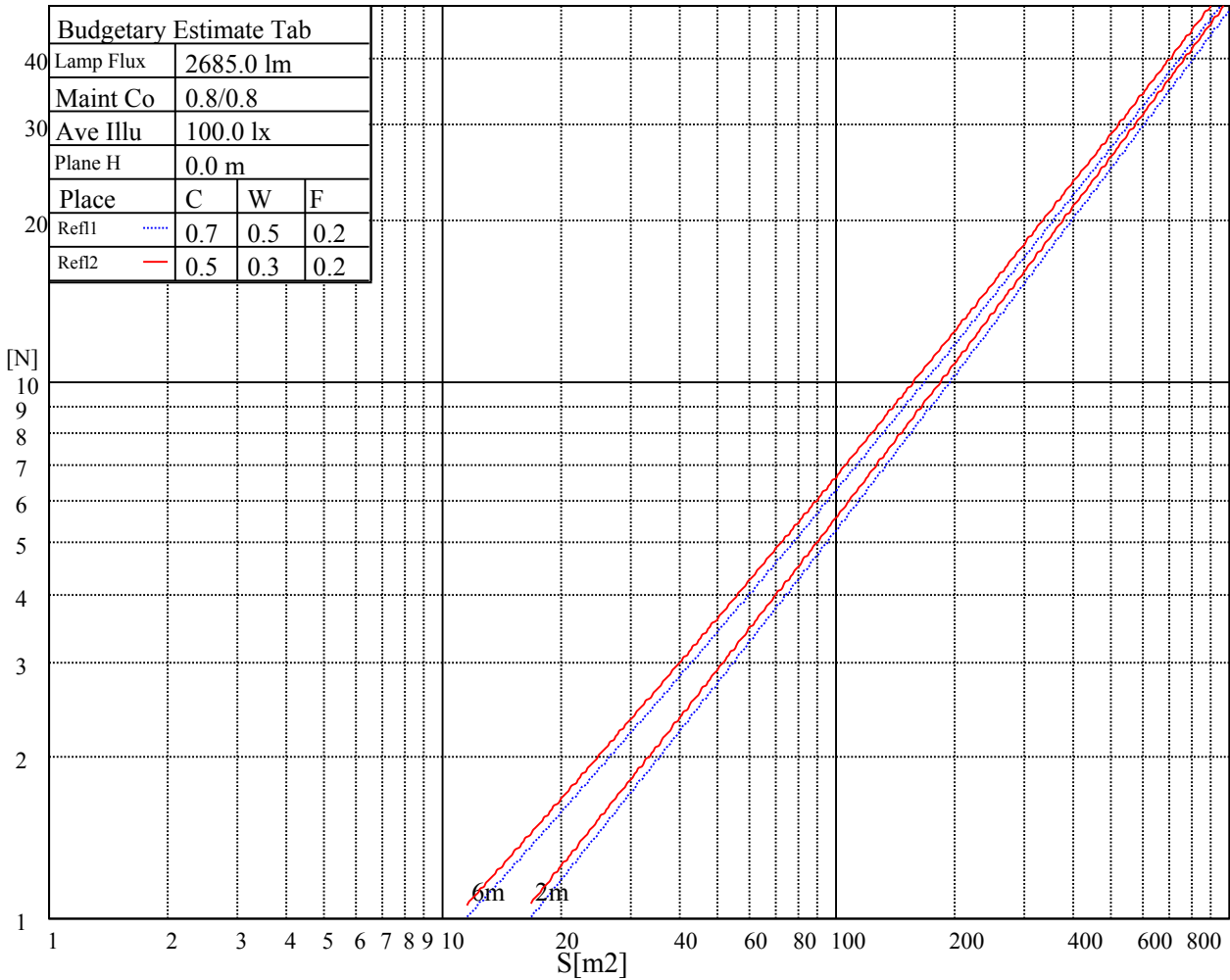
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

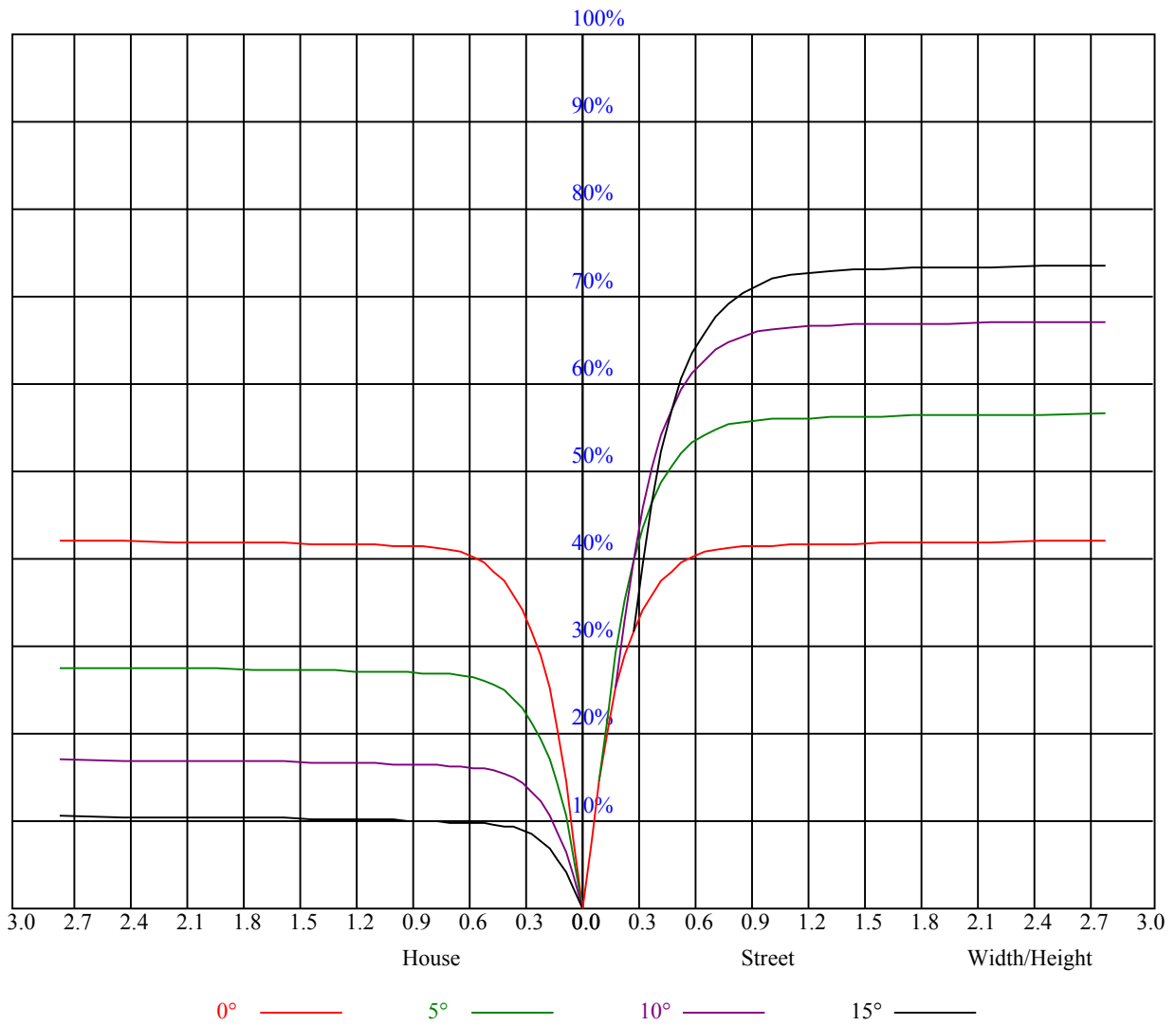


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	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

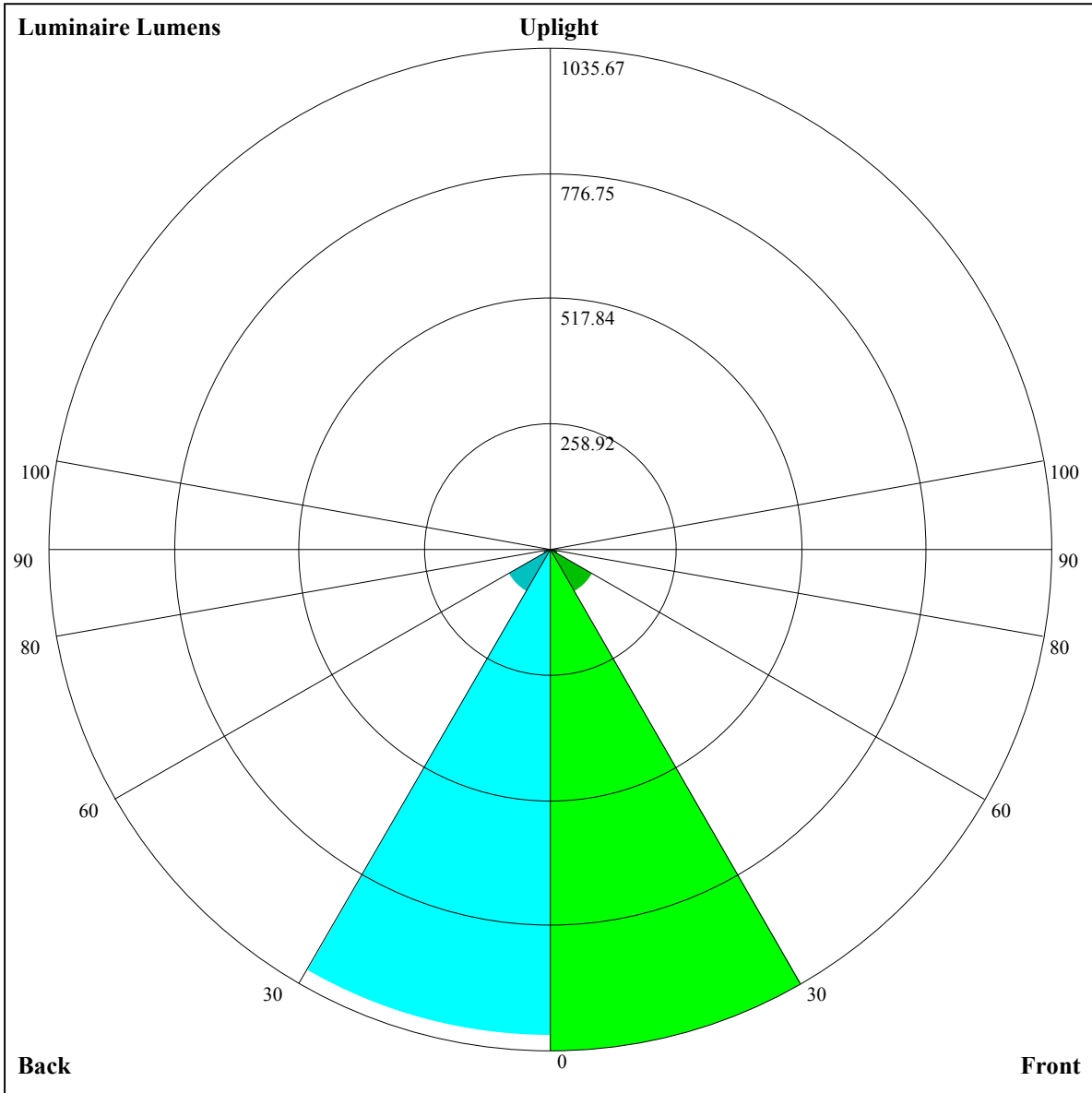
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	1.01	1.01	1.01	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	0.87	0.87	0.87	0.85
1	0.95	0.93	0.92	0.93	0.92	0.90	0.90	0.89	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81
2	0.90	0.87	0.85	0.89	0.86	0.84	0.86	0.84	0.82	0.84	0.82	0.80	0.81	0.80	0.79	0.77
3	0.86	0.82	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.81	0.78	0.77	0.79	0.77	0.76	0.74
4	0.82	0.78	0.76	0.81	0.78	0.75	0.79	0.77	0.74	0.78	0.75	0.74	0.76	0.74	0.73	0.72
5	0.79	0.75	0.72	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
6	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.72	0.70	0.68	0.67
7	0.73	0.69	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.65
8	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.63
9	0.68	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.62	0.67	0.64	0.62	0.66	0.63	0.62	0.61
10	0.66	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.59







Luminaire Lumens:

FL=1035.67,FM=101.98,FH=15.65,FVH=5.94

BL=1003.9,BM=99.35,BH=15.51,BVH=5.83

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	12609.26	12556.59	11581.08	11581.08	11261.54	10325.18	9466.66	8536.74	7584.57
45.0	12322.50	12609.26	12638.52	12404.43	12006.48	11304.21	10578.53	9747.51	8600.47
90.0	12609.26	12533.18	11622.04	11622.04	11153.86	10399.51	9339.08	8413.25	7464.60
135.0	12539.03	12539.03	12363.46	11912.84	11368.58	10683.87	9905.52	8834.56	7904.05
180.0	12609.26	12462.95	12152.78	11561.71	10912.11	10168.87	9097.91	8138.14	7178.37
225.0	12322.50	11569.37	11418.97	10739.52	9958.83	9074.56	7879.53	6922.10	6000.37
270.0	12609.26	12451.25	12117.67	11643.64	10847.73	10069.38	9209.10	8021.09	7073.03
315.0	12539.03	11649.55	11649.55	11361.03	10494.90	9658.03	8727.52	7528.98	6585.01
360.0	12609.26	12556.59	11581.08	11581.08	11261.54	10325.18	9466.66	8536.74	7584.57
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6426.41	5544.48	4752.09	3912.87	3372.71	2862.39	2543.45	2283.61	2029.62
45.0	7664.11	6733.60	5849.91	4843.32	4141.05	3561.68	3099.35	2999.86	2620.70
90.0	6534.68	5438.55	4651.43	3988.37	3451.13	2920.92	2588.51	2321.06	2057.12
135.0	6985.25	6089.85	5054.00	4328.32	3737.25	3140.32	3034.98	3034.98	2167.73
180.0	6072.29	5200.31	4451.22	3848.44	3210.54	2999.86	2999.86	2258.44	2005.04
225.0	5147.70	4407.39	3663.57	3192.46	2721.35	2428.16	2193.48	1954.12	1793.19
270.0	6189.34	5329.06	4386.85	3766.51	3263.21	2958.90	2958.90	2221.57	2030.79
315.0	5696.64	4888.44	4028.75	3478.05	3034.45	2680.97	2331.01	2110.38	1924.28
360.0	6426.41	5544.48	4752.09	3912.87	3372.71	2862.39	2543.45	2283.61	2029.62
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1863.41	1718.28	1583.09	1460.78	1156.05	1156.05	1134.69	1047.49	938.12
45.0	2150.76	1923.69	1772.12	1632.25	1470.14	1357.78	1233.71	1145.34	1057.56
90.0	1887.99	1704.23	1568.46	1444.39	1162.61	1162.61	1118.66	1033.10	947.83
135.0	1978.70	1817.77	1636.93	1506.43	1386.46	1282.29	1168.75	1080.97	996.70
180.0	1838.84	1683.75	1509.35	1391.72	1288.72	1175.78	1088.58	1006.65	903.06
225.0	1611.77	1480.68	1365.39	1150.38	1150.38	1065.58	982.18	897.50	811.65
270.0	1811.92	1664.44	1530.42	1381.19	1278.19	1186.89	1080.38	996.70	914.77
315.0	1728.81	1587.19	1428.01	1151.78	1151.78	1130.60	1026.02	941.51	855.48
360.0	1863.41	1718.28	1583.09	1460.78	1156.05	1156.05	1134.69	1047.49	938.12
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	847.76	756.46	647.02	564.22	468.41	397.48	332.29	260.60	211.97
45.0	967.44	851.56	760.85	670.73	587.04	490.48	420.84	355.88	296.77
90.0	837.75	748.44	660.25	574.22	480.82	413.75	350.14	277.46	229.70
135.0	908.33	793.62	702.91	616.30	522.66	455.36	375.19	316.08	302.62
180.0	815.28	729.83	641.47	537.88	467.07	400.94	339.49	297.35	297.35
225.0	700.87	612.56	532.55	444.60	379.75	305.25	253.23	208.05	161.17
270.0	828.15	716.37	625.08	542.56	467.07	382.21	321.35	306.72	243.28
315.0	747.45	659.84	574.98	497.21	409.13	343.94	286.29	236.08	183.88
360.0	847.76	756.46	647.02	564.22	468.41	397.48	332.29	260.60	211.97
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	171.71	138.93	106.39	85.68	69.70	56.77	46.99	38.57	34.06
45.0	296.77	186.92	151.87	116.17	93.46	70.93	57.24	47.11	40.20
90.0	178.61	145.19	116.40	87.61	70.40	57.00	46.99	38.39	33.83
135.0	240.12	164.10	131.09	103.58	77.48	61.92	50.33	41.90	35.05
180.0	180.02	137.18	109.03	86.26	64.55	51.91	41.02	35.35	31.43
225.0	130.21	104.11	82.69	65.72	50.45	42.14	36.40	32.48	29.03
270.0	168.78	131.03	106.45	86.03	69.12	53.08	44.07	37.86	33.65
315.0	150.05	121.96	94.10	76.37	58.93	48.57	40.97	35.70	31.19
360.0	171.71	138.93	106.39	85.68	69.70	56.77	46.99	38.57	34.06

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	30.14	27.74	25.69	23.64	22.24	21.01	19.84	19.08	18.43
45.0	34.59	31.49	29.03	26.92	24.76	23.23	21.95	20.83	19.84
90.0	30.67	28.15	25.57	23.99	22.59	21.13	20.19	19.43	18.67
135.0	31.43	28.62	25.93	24.17	22.71	21.19	20.19	19.43	18.67
180.0	28.56	25.81	24.11	22.65	21.36	20.13	19.37	18.67	18.20
225.0	26.86	24.70	23.23	21.71	20.78	19.96	19.31	18.67	18.32
270.0	29.90	27.68	25.75	24.23	22.59	21.54	20.37	19.66	19.08
315.0	28.56	26.39	24.58	22.77	21.54	20.48	19.37	18.73	18.26
360.0	30.14	27.74	25.69	23.64	22.24	21.01	19.84	19.08	18.43
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	17.97	17.50	17.32	17.26	17.21	17.38	17.62	17.85	17.97
45.0	19.14	18.49	18.08	17.85	17.67	17.67	17.79	17.91	18.08
90.0	18.26	17.97	17.73	17.67	17.67	17.79	18.02	18.14	18.26
135.0	18.20	17.91	17.62	17.50	17.44	17.56	17.62	17.85	17.91
180.0	17.73	17.50	17.32	17.32	17.32	17.50	17.62	17.73	17.67
225.0	18.08	17.91	17.91	17.97	18.08	18.20	18.38	18.32	18.14
270.0	18.61	18.32	18.14	18.08	18.14	18.26	18.43	18.49	18.49
315.0	17.85	17.62	17.50	17.50	17.62	17.79	17.91	18.02	17.91
360.0	17.97	17.50	17.32	17.26	17.21	17.38	17.62	17.85	17.97
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.85	17.50	17.03	16.39	15.74	14.92	14.34	13.87	13.52
45.0	18.20	18.14	17.97	17.44	16.85	16.27	15.45	14.86	14.34
90.0	18.08	17.79	17.32	16.68	15.86	15.22	14.51	14.10	13.75
135.0	17.85	17.56	17.15	16.50	15.86	15.22	14.69	14.05	13.69
180.0	17.50	17.09	16.62	15.92	15.16	14.57	14.05	13.58	13.23
225.0	17.73	17.21	16.33	15.63	15.10	14.57	14.10	13.81	13.58
270.0	18.32	17.97	17.26	16.62	15.86	15.10	14.57	14.10	13.81
315.0	17.73	17.15	16.56	15.86	15.22	14.51	14.05	13.64	13.28
360.0	17.85	17.50	17.03	16.39	15.74	14.92	14.34	13.87	13.52
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.17	12.93	12.70	12.52	12.35	12.17	12.06	11.88	11.76
45.0	13.87	13.64	13.99	14.92	15.98	17.32	18.49	17.79	16.33
90.0	13.46	13.17	13.11	13.69	13.75	13.28	12.87	12.47	12.00
135.0	13.34	13.11	12.87	12.70	12.52	12.35	12.11	11.94	11.70
180.0	12.93	12.76	12.58	12.35	12.23	12.11	11.94	11.82	11.59
225.0	13.46	14.05	14.81	16.09	17.50	17.79	16.91	15.16	12.64
270.0	13.64	14.16	16.09	17.44	17.44	16.85	16.04	15.63	15.10
315.0	13.11	12.82	12.64	12.52	12.35	12.23	12.11	11.94	11.70
360.0	13.17	12.93	12.70	12.52	12.35	12.17	12.06	11.88	11.76
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.47	11.18	11.00	10.89	10.89	10.30	10.12	9.95	9.89
45.0	14.57	11.88	11.18	10.94	10.77	10.59	10.30	10.12	9.95
90.0	11.65	11.29	11.00	10.71	10.53	10.30	10.12	10.01	9.95
135.0	11.53	11.35	11.18	10.94	10.77	10.36	10.18	10.07	10.07
180.0	11.47	11.06	10.94	10.89	10.30	10.12	10.01	10.01	9.77
225.0	11.12	10.94	10.77	10.65	10.18	10.07	9.89	9.77	9.77
270.0	13.17	11.47	10.94	10.77	10.59	10.36	10.12	9.95	9.83
315.0	11.47	11.24	10.94	10.71	10.65	10.24	10.07	9.95	9.83
360.0	11.47	11.18	11.00	10.89	10.89	10.30	10.12	9.95	9.89

Intensity data(cd)

C/γ(°)	90.0
0.0	9.77
45.0	9.89
90.0	9.83
135.0	9.89
180.0	9.77
225.0	9.77
270.0	9.83
315.0	9.83
360.0	9.77