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NT

Client:

LumCAT: 3-2832-L

Luminaire: 92.70.429.00

Report No: 2024411-B020

Ballast type: AC

Test No: 2024411-C020

Voltage(V): 34.830

LampCAT: CREE CXA1830 LES14

Current(A): 0.530

Lamp flux(lm): 2685.0

Power (W): 18.459

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 2310.84, Efficiency(%): 86.06% , Luminous Efficacy(lm/W): 125.19

Central intensity(cd): 11869.710, Maximum intensity(cd): 11869.710

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

Beam Angle(50%Imax): [C0/180]Total=16.8

[C90/270]Total=16.8

Field angle(10%Imax): [C0/180]Total=48.0

[C90/270]Total=48.0

Maximum s/h(1/2): C0\_180=0.29 C90\_270=0.29

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(%): 86.06%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.902%

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	11869.709	0.000	0	0.00%	0.00%
1.0	11734.383	11.294	11.294	0.42%	0.49%
2.0	11482.729	33.323	44.618	1.24%	1.93%
3.0	10869.121	53.458	98.076	1.99%	4.24%
4.0	10081.773	70.129	168.205	2.61%	7.28%
5.0	9138.098	82.683	250.888	3.08%	10.86%
6.0	8207.664	91.157	342.045	3.40%	14.80%
7.0	7224.486	95.787	437.832	3.57%	18.95%
8.0	6287.614	96.704	534.535	3.60%	23.13%
9.0	5427.186	94.942	629.477	3.54%	27.24%
10.0	4735.597	91.969	721.447	3.43%	31.22%
11.0	4155.127	88.837	810.283	3.31%	35.06%
12.0	3681.168	85.662	895.945	3.19%	38.77%
13.0	3292.066	82.755	978.7	3.08%	42.35%
14.0	2973.923	80.204	1058.904	2.99%	45.82%
15.0	2776.995	78.951	1137.855	2.94%	49.24%
16.0	2508.538	77.448	1215.303	2.88%	52.59%
17.0	2215.355	73.564	1288.867	2.74%	55.77%
18.0	1995.456	69.427	1358.294	2.59%	58.78%
19.0	1834.519	66.634	1424.928	2.48%	61.66%
20.0	1671.900	64.177	1489.105	2.39%	64.44%
21.0	1530.129	61.485	1550.59	2.29%	67.10%
22.0	1384.840	58.578	1609.168	2.18%	69.64%
23.0	1259.236	55.480	1664.648	2.07%	72.04%
24.0	1183.800	53.414	1718.061	1.99%	74.35%
25.0	1085.292	51.594	1769.656	1.92%	76.58%
26.0	996.126	49.132	1818.788	1.83%	78.71%
27.0	924.004	46.976	1865.764	1.75%	80.74%
28.0	870.376	45.430	1911.194	1.69%	82.71%
29.0	820.405	44.236	1955.43	1.65%	84.62%
30.0	751.817	42.450	1997.879	1.58%	86.46%
31.0	655.445	39.162	2037.041	1.46%	88.15%
32.0	556.293	34.715	2071.756	1.29%	89.65%
33.0	450.499	29.660	2101.417	1.10%	90.94%
34.0	347.689	24.156	2125.572	0.90%	91.98%
35.0	262.181	18.940	2144.512	0.71%	92.80%
36.0	206.628	14.927	2159.439	0.56%	93.45%
37.0	136.292	11.184	2170.624	0.42%	93.93%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	90.088	7.556	2178.18	0.28%	94.26%
39.0	80.812	5.833	2184.013	0.22%	94.51%
40.0	75.297	5.445	2189.458	0.20%	94.75%
41.0	70.161	5.180	2194.637	0.19%	94.97%
42.0	65.245	4.920	2199.557	0.18%	95.18%
43.0	60.798	4.669	2204.226	0.17%	95.39%
44.0	56.591	4.431	2208.656	0.17%	95.58%
45.0	52.934	4.209	2212.866	0.16%	95.76%
46.0	49.847	4.020	2216.885	0.15%	95.93%
47.0	46.898	3.848	2220.733	0.14%	96.10%
48.0	44.309	3.687	2224.42	0.14%	96.26%
49.0	42.129	3.550	2227.97	0.13%	96.41%
50.0	40.381	3.440	2231.41	0.13%	96.56%
51.0	38.676	3.345	2234.754	0.12%	96.71%
52.0	37.454	3.267	2238.021	0.12%	96.85%
53.0	36.372	3.211	2241.233	0.12%	96.99%
54.0	35.560	3.170	2244.403	0.12%	97.13%
55.0	34.726	3.137	2247.541	0.12%	97.26%
56.0	33.885	3.100	2250.641	0.12%	97.40%
57.0	32.824	3.050	2253.691	0.11%	97.53%
58.0	31.661	2.982	2256.673	0.11%	97.66%
59.0	30.205	2.892	2259.565	0.11%	97.78%
60.0	28.771	2.786	2262.351	0.10%	97.90%
61.0	27.184	2.670	2265.022	0.10%	98.02%
62.0	25.516	2.539	2267.561	0.09%	98.13%
63.0	23.841	2.400	2269.962	0.09%	98.23%
64.0	22.158	2.257	2272.219	0.08%	98.33%
65.0	20.724	2.122	2274.341	0.08%	98.42%
66.0	19.429	2.003	2276.344	0.07%	98.51%
67.0	18.318	1.898	2278.242	0.07%	98.59%
68.0	17.425	1.811	2280.053	0.07%	98.67%
69.0	16.737	1.743	2281.796	0.06%	98.74%
70.0	16.152	1.689	2283.485	0.06%	98.82%
71.0	15.691	1.646	2285.131	0.06%	98.89%
72.0	15.252	1.609	2286.74	0.06%	98.96%
73.0	14.865	1.575	2288.315	0.06%	99.03%
74.0	14.528	1.545	2289.86	0.06%	99.09%
75.0	14.192	1.517	2291.377	0.06%	99.16%

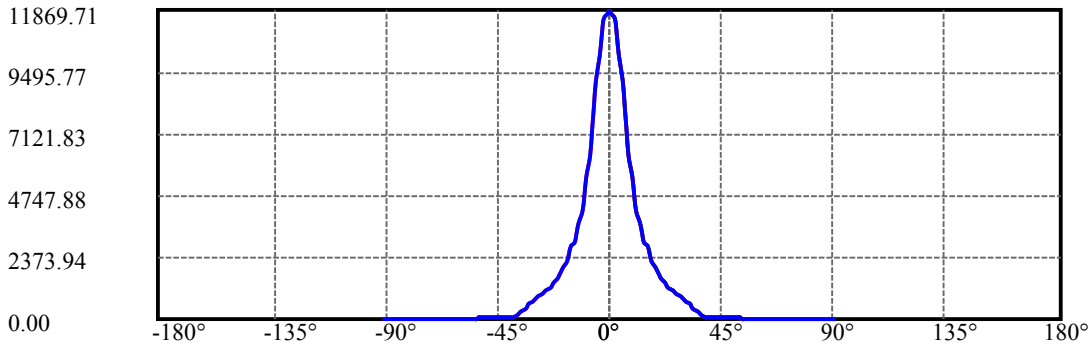
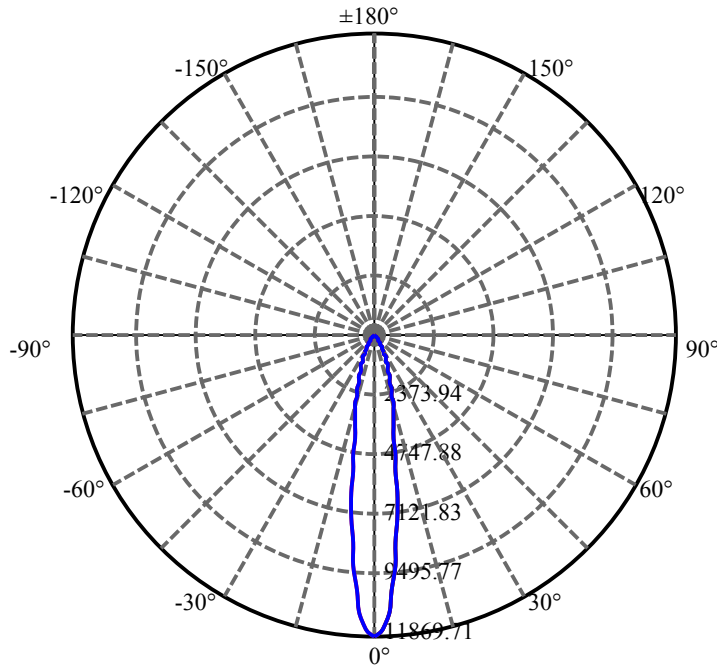
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.023	1.498	2292.875	0.06%	99.22%
77.0	13.855	1.486	2294.361	0.06%	99.29%
78.0	13.745	1.477	2295.839	0.06%	99.35%
79.0	13.548	1.466	2297.305	0.05%	99.41%
80.0	13.109	1.437	2298.743	0.05%	99.48%
81.0	12.582	1.389	2300.132	0.05%	99.54%
82.0	12.026	1.334	2301.466	0.05%	99.59%
83.0	11.536	1.281	2302.747	0.05%	99.65%
84.0	11.185	1.238	2303.985	0.05%	99.70%
85.0	10.893	1.205	2305.19	0.04%	99.76%
86.0	10.600	1.175	2306.365	0.04%	99.81%
87.0	10.358	1.147	2307.512	0.04%	99.86%
88.0	10.161	1.124	2308.636	0.04%	99.90%
89.0	10.022	1.106	2309.742	0.04%	99.95%
90.0	9.956	1.095	2310.838	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1997.88	74.41%	86.46%
0-40	2189.46	81.54%	94.75%
0-60	2262.35	84.26%	97.90%
0-90	2309.74	86.02%	99.95%
0-120	2309.74	86.02%	99.95%
0-180	2310.84	86.06%	100.00%
60-90	47.39	1.77%	2.05%
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%
0-26.64	1848.67	68.85%	80.00%

ZONAL LUMEN SUMMARY

0-10	721.45
10-20	767.66
20-30	508.77
30-40	191.58
40-50	41.95
50-60	30.94
60-70	21.13
70-80	15.26
80-90	11.00
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



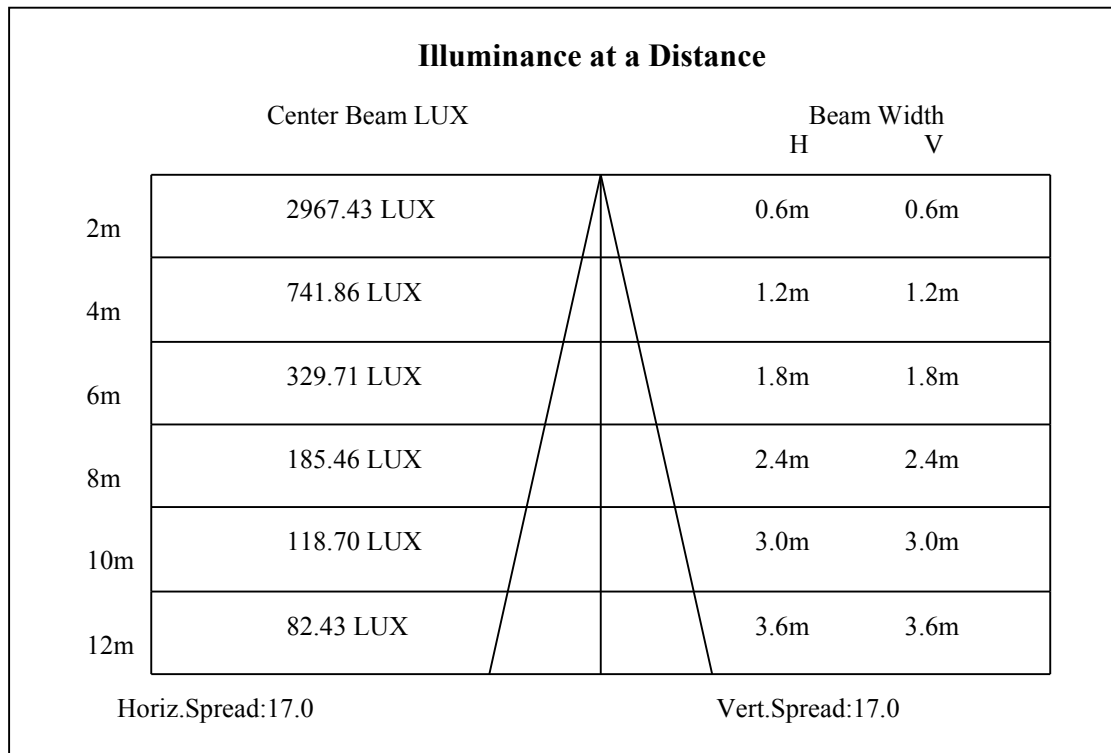
C0(Max): —————

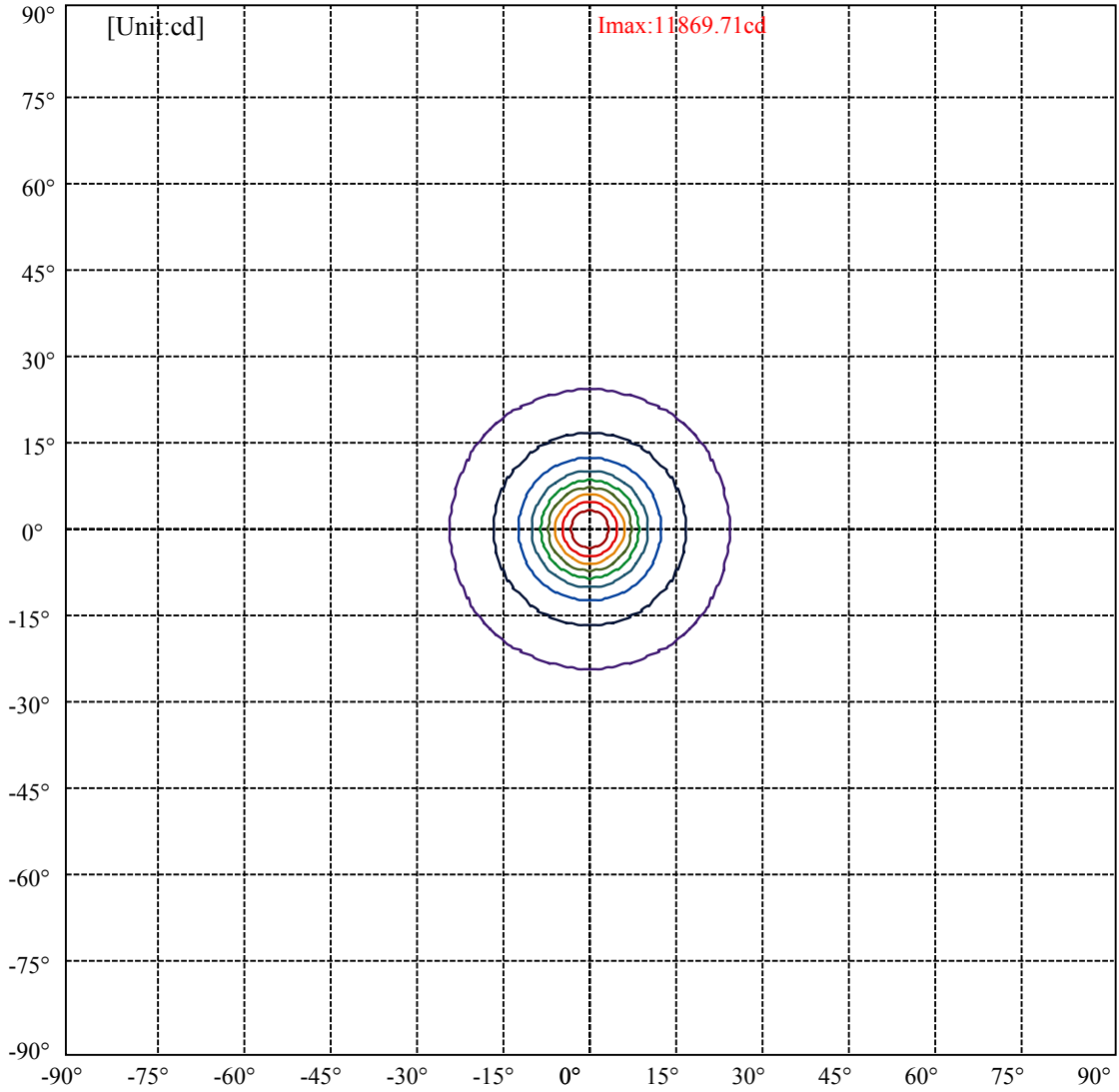
C0/C180: —————

C90/C270: —————

Field angle(10%Imax):C0/180Left:24.0 Right:24.0  
:C90/270Left:24.0 Right:24.0

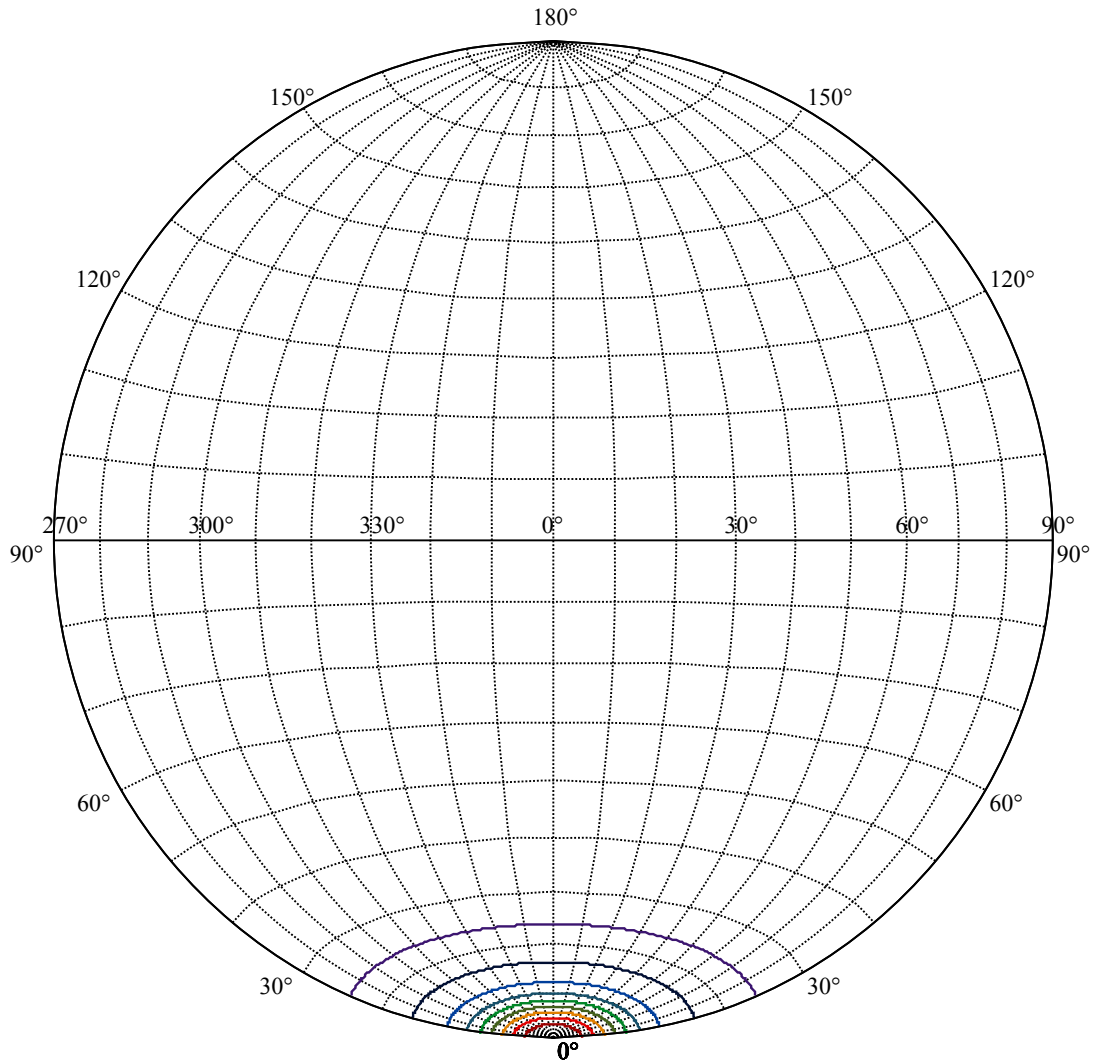
Beam Angle(50%Imax):C0/180Left:8.4 Right:8.4  
:C90/270Left:8.4 Right:8.4





(10%Imax) 1186.97	—
(20%Imax) 2373.94	—
(30%Imax) 3560.91	—
(40%Imax) 4747.88	—
(50%Imax) 5934.85	—
(60%Imax) 7121.83	—
(70%Imax) 8308.8	—
(80%Imax) 9495.77	—
(90%Imax) 10682.7	—





House

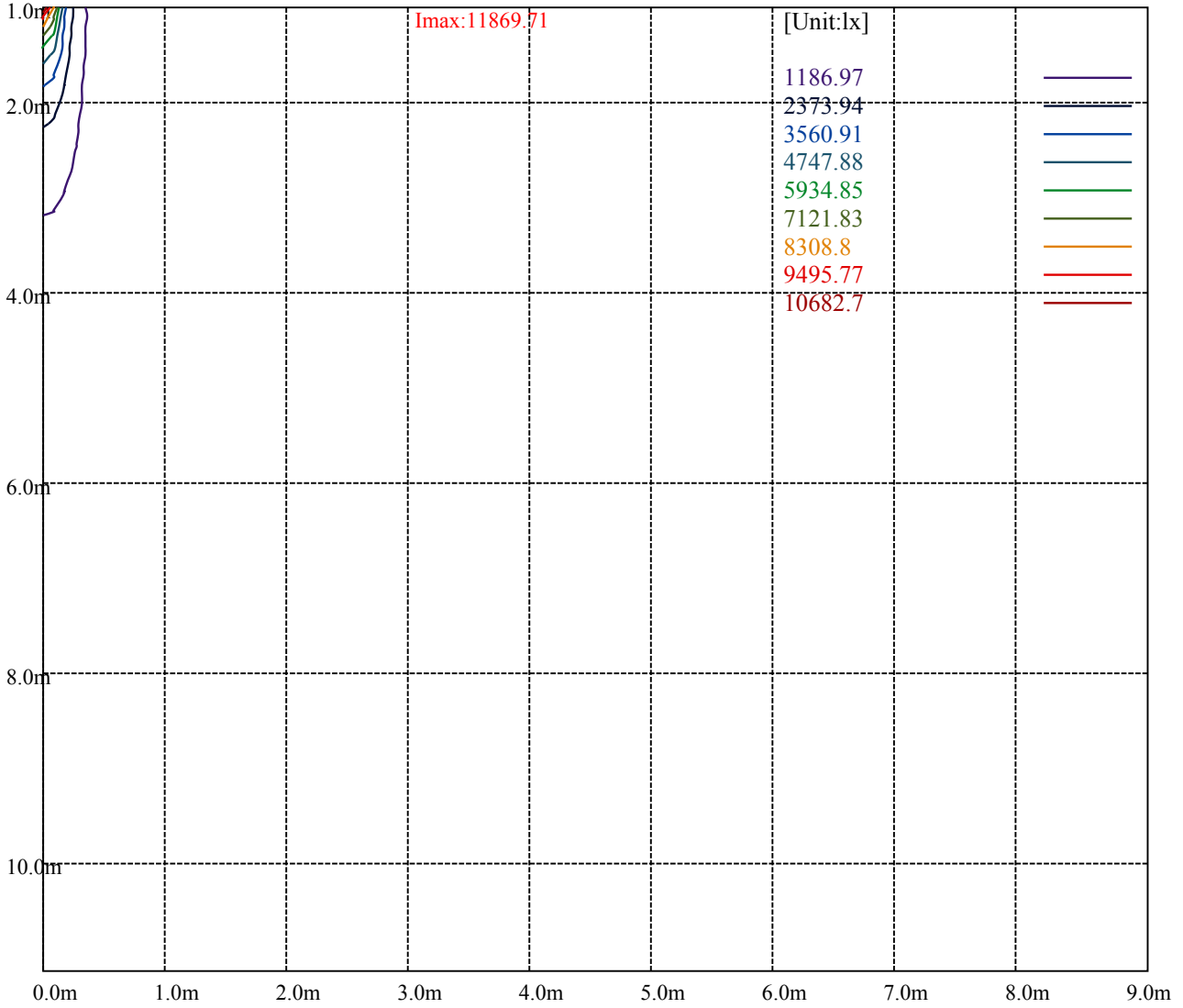
[Unit:cd]

Road

**Imax:11869.71**

(10%Imax)	1186.97	—
(20%Imax)	2373.94	—
(30%Imax)	3560.91	—
(40%Imax)	4747.88	—
(50%Imax)	5934.85	—
(60%Imax)	7121.83	—
(70%Imax)	8308.8	—
(80%Imax)	9495.77	—
(90%Imax)	10682.7	—





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

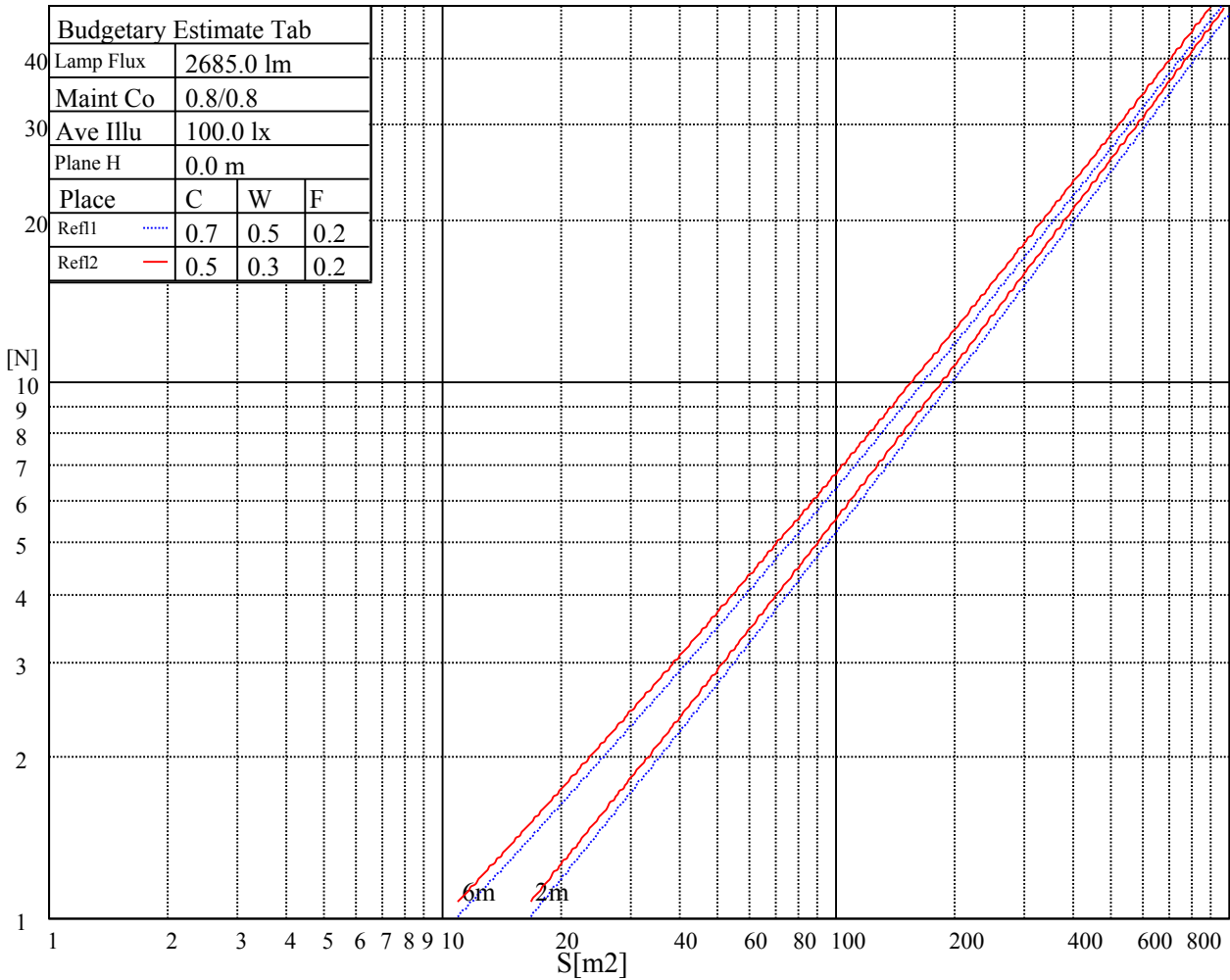
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	$\leq 300$				
1.5	B		2000	1000	500	$\leq 300$			
1.85	C			2000	1000	500	$\leq 300$		
2.2	D				2000	1000	500	$\leq 300$	
2.55	E					2000	1000	500	$\leq 300$
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

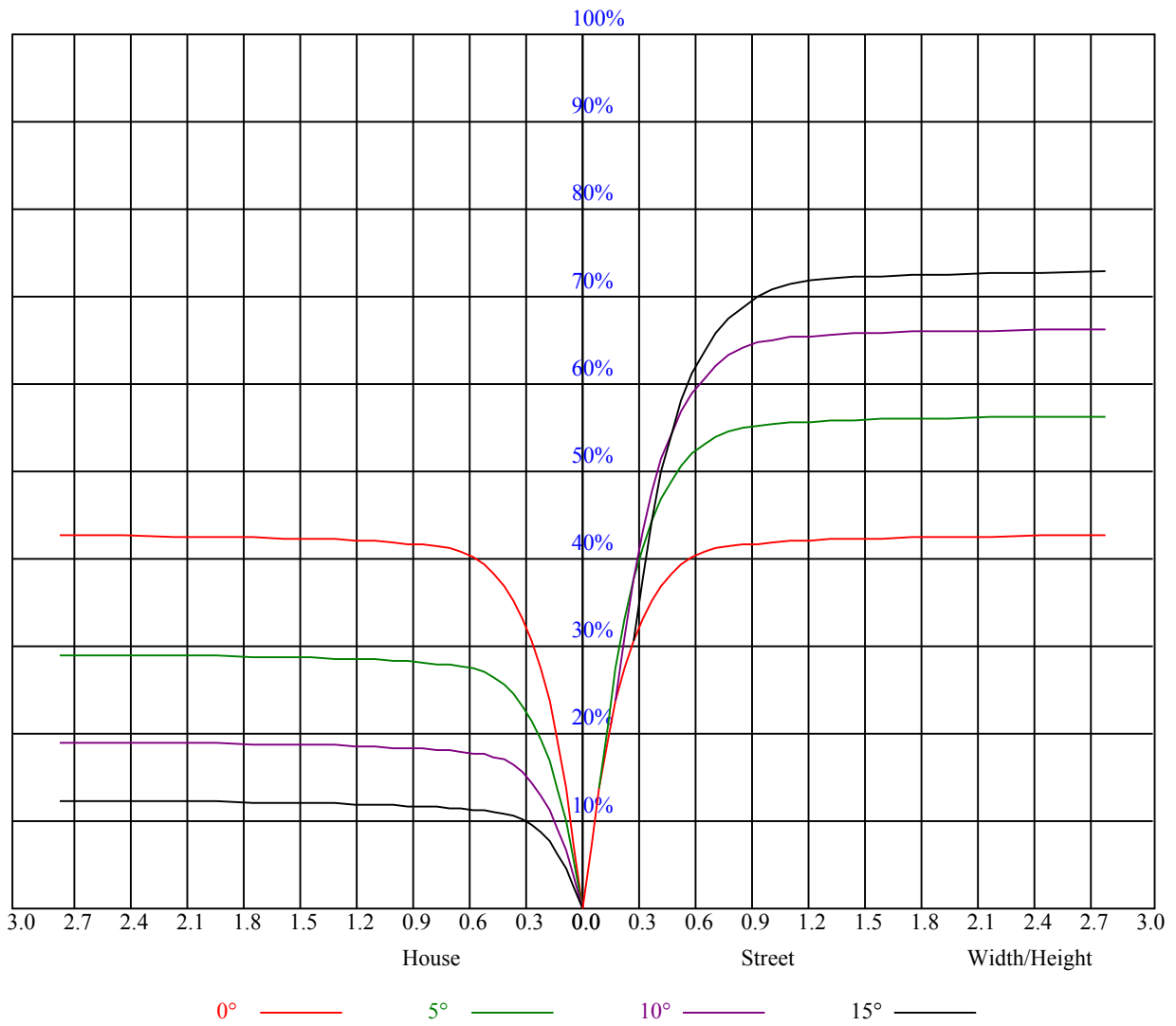


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字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

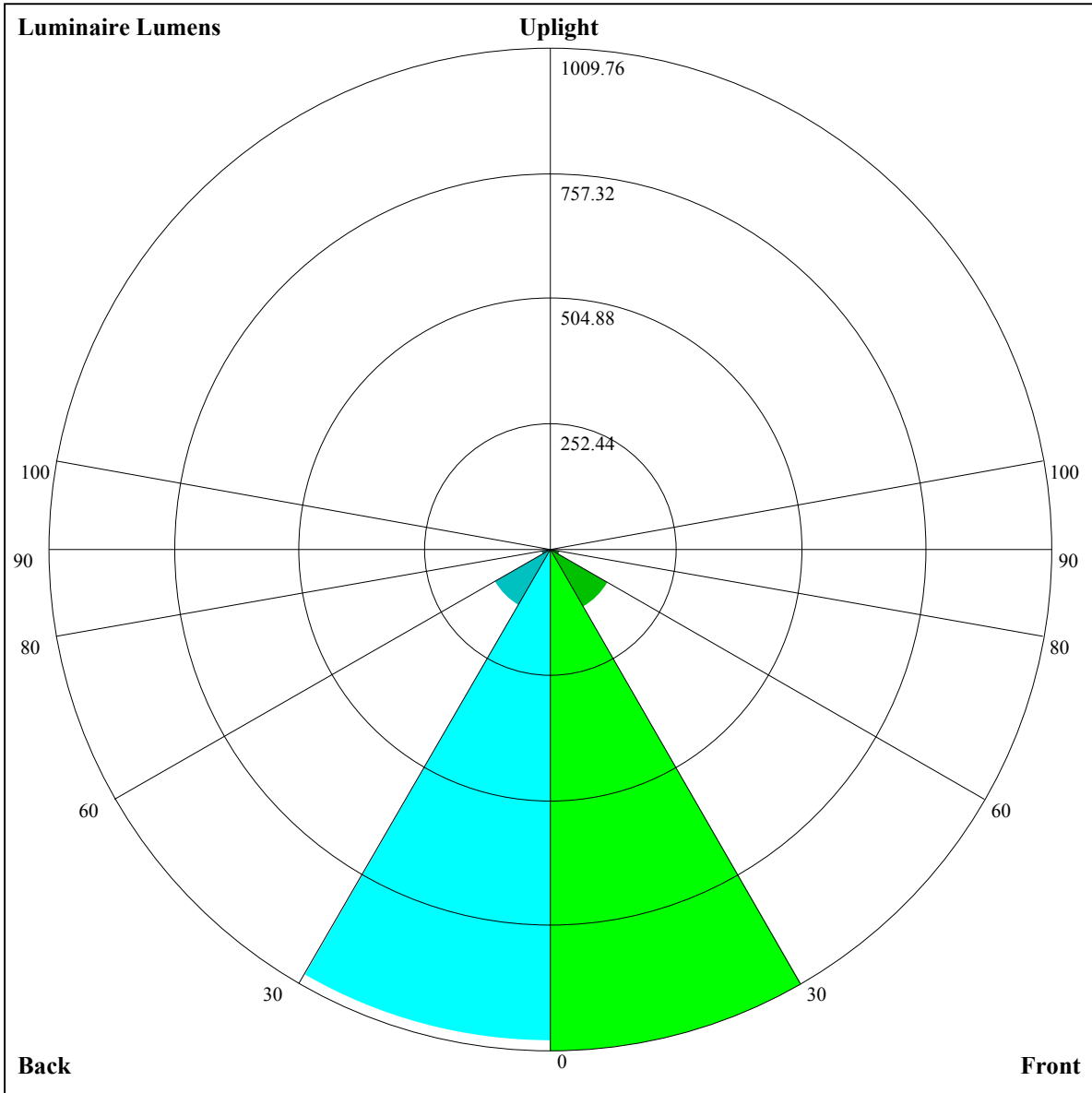
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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 RHOF=20 CU															
0	1.02	1.02	1.02	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.86
1	0.96	0.94	0.93	0.94	0.93	0.91	0.91	0.89	0.88	0.88	0.87	0.86	0.85	0.84	0.83	0.82
2	0.91	0.88	0.85	0.89	0.87	0.84	0.87	0.84	0.83	0.84	0.82	0.81	0.82	0.80	0.79	0.78
3	0.86	0.83	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.79	0.77	0.75	0.74
4	0.82	0.78	0.75	0.81	0.78	0.75	0.79	0.76	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.71
5	0.78	0.74	0.71	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.68
6	0.75	0.71	0.68	0.75	0.71	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.71	0.69	0.67	0.66
7	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.63
8	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.61
9	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.65	0.62	0.60	0.59
10	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.63	0.60	0.58	0.57







Luminaire Lumens:

FL=1009.76,FM=134.85,FH=18.36,FVH=6.1

BL=990.03,BM=131.45,BH=18.06,BVH=6

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	12082.56	11573.47	11452.91	10863.00	10149.62	9091.53	8180.92	7237.54	6331.61
45.0	11671.20	11671.20	11977.21	11690.45	11175.46	10315.18	9495.86	8600.47	7430.02
90.0	12047.44	11618.53	11618.53	11073.10	10187.07	9340.25	8217.79	7286.69	6376.08
135.0	11677.64	12176.19	11848.47	11321.76	10683.87	9911.37	9033.53	7909.90	6985.25
180.0	12082.56	11942.10	11620.23	10917.96	10198.13	9133.02	8220.07	7260.30	6376.61
225.0	11671.20	11430.09	10810.33	9849.40	8968.05	7785.89	6851.87	5966.43	5193.93
270.0	12047.44	11889.43	11503.18	10906.25	9975.75	9115.46	8190.81	7219.34	6124.96
315.0	11677.64	11574.05	11030.96	10331.04	9316.26	8412.08	7470.46	6315.22	5482.45
360.0	12082.56	11573.47	11452.91	10863.00	10149.62	9091.53	8180.92	7237.54	6331.61
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5318.00	4645.57	4114.78	3684.05	3241.62	2951.93	2637.08	2417.62	2179.44
45.0	6522.92	5680.19	4948.66	4228.84	3778.21	3397.82	3075.94	2999.86	2706.72
90.0	5542.72	4686.54	4143.45	3699.27	3327.06	2940.23	2676.88	2440.45	2183.53
135.0	6130.82	5346.62	4550.71	4041.56	3608.50	3175.43	3011.57	3011.57	2312.87
180.0	5381.73	4714.57	4158.61	3707.99	3233.95	2994.01	2994.01	2403.58	2148.42
225.0	4416.17	3927.50	3514.92	3173.15	2883.46	2561.59	2342.13	2140.23	1921.35
270.0	5329.06	4667.75	4135.20	3596.79	3251.51	3017.42	3017.42	2395.97	2194.07
315.0	4776.08	4216.62	3674.69	3317.70	3012.21	2752.96	2460.93	2259.03	2076.44
360.0	5318.00	4645.57	4114.78	3684.05	3241.62	2951.93	2637.08	2417.62	2179.44
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2006.80	1854.05	1714.18	1555.59	1440.30	1165.89	1165.89	1086.18	988.27
45.0	2246.74	2068.24	1904.97	1728.81	1602.99	1487.12	1374.75	1242.49	1135.40
90.0	2005.62	1848.20	1676.14	1550.90	1434.44	1165.12	1165.12	1089.92	998.28
135.0	2113.89	1941.84	1751.64	1619.96	1498.23	1388.80	1258.88	1157.63	1061.07
180.0	1977.53	1826.55	1649.22	1524.57	1380.60	1274.09	1171.09	1071.02	972.70
225.0	1768.02	1598.89	1478.92	1291.65	1160.21	1136.27	1038.25	961.93	904.87
270.0	1972.85	1810.74	1634.01	1516.38	1405.18	1299.84	1165.83	1067.51	976.80
315.0	1872.19	1727.64	1566.12	1453.17	1156.76	1156.76	1130.60	1005.65	931.62
360.0	2006.80	1854.05	1714.18	1555.59	1440.30	1165.89	1165.89	1086.18	988.27
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	920.68	873.45	832.54	750.96	662.83	541.51	439.04	338.73	223.15
45.0	1027.71	949.88	886.67	848.05	793.04	688.28	594.65	498.08	373.43
90.0	918.86	869.41	829.73	767.64	663.41	568.90	466.89	365.71	248.66
135.0	981.48	910.67	872.04	832.83	745.05	653.17	529.69	429.03	331.88
180.0	908.33	861.51	824.06	743.88	660.78	572.99	465.90	340.07	298.52
225.0	847.23	802.46	727.03	636.84	515.99	417.73	298.76	215.30	131.32
270.0	914.77	859.17	815.86	743.29	630.93	534.37	434.88	313.74	313.74
315.0	872.98	836.46	775.31	691.03	571.53	473.39	374.19	280.85	176.74
360.0	920.68	873.45	832.54	750.96	662.83	541.51	439.04	338.73	223.15
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	149.52	103.76	85.27	78.77	74.03	69.76	63.97	60.10	56.18
45.0	300.28	300.28	111.19	91.00	83.28	76.84	72.16	67.18	62.79
90.0	171.06	106.51	89.83	81.00	76.02	71.16	65.95	61.80	56.71
135.0	308.47	201.84	100.42	87.73	79.71	74.85	69.76	64.78	59.28
180.0	298.52	103.12	87.02	78.65	74.03	69.47	64.08	59.11	55.65
225.0	98.49	87.67	81.17	74.73	69.52	64.73	60.34	55.77	52.44
270.0	210.04	96.80	85.09	78.60	73.97	68.24	63.56	59.58	55.95
315.0	116.64	90.36	80.70	76.02	71.81	66.25	62.15	58.05	53.72
360.0	149.52	103.76	85.27	78.77	74.03	69.76	63.97	60.10	56.18

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	53.02	49.28	46.58	43.66	41.61	39.91	38.10	36.87	35.82
45.0	57.59	54.19	50.74	48.05	44.89	42.55	40.32	38.57	37.40
90.0	53.20	49.98	47.05	44.30	41.96	40.32	38.33	37.45	36.28
135.0	55.65	52.03	48.98	45.53	43.37	41.08	39.56	38.22	36.93
180.0	52.03	49.33	46.00	43.89	41.84	39.97	38.51	37.45	35.99
225.0	49.57	46.94	44.18	42.25	40.38	39.03	37.86	36.58	35.82
270.0	51.85	49.22	46.41	44.01	42.02	40.67	38.86	37.75	36.58
315.0	50.56	47.81	45.24	42.78	40.97	39.50	37.86	36.75	36.17
360.0	53.02	49.28	46.58	43.66	41.61	39.91	38.10	36.87	35.82
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	35.05	34.24	33.88	32.77	31.54	30.02	28.91	27.51	25.46
45.0	36.28	35.58	34.76	34.12	32.95	31.84	30.72	29.32	27.68
90.0	35.70	34.70	33.94	32.83	31.95	30.49	28.97	27.27	25.81
135.0	36.05	35.29	34.35	33.36	32.36	31.19	29.50	28.03	26.28
180.0	35.35	34.35	33.42	32.19	31.13	29.38	28.21	26.34	25.05
225.0	35.17	34.00	32.71	31.43	29.96	28.32	26.45	25.22	23.29
270.0	35.82	35.17	34.53	33.36	32.13	30.61	29.44	27.56	25.81
315.0	35.05	34.47	33.47	32.54	31.25	29.79	27.97	26.22	24.76
360.0	35.05	34.24	33.88	32.77	31.54	30.02	28.91	27.51	25.46
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	23.94	22.30	20.72	19.43	18.32	17.38	16.74	16.21	15.74
45.0	25.93	24.52	22.82	21.36	19.84	18.79	17.73	17.09	16.44
90.0	24.29	22.36	21.01	19.61	18.43	17.50	16.85	16.09	15.74
135.0	25.05	22.77	21.59	19.72	18.84	17.85	17.09	16.39	15.86
180.0	22.82	21.59	20.07	19.02	17.79	16.97	16.27	15.74	15.39
225.0	21.89	20.31	19.25	18.02	17.26	16.56	16.09	15.68	15.27
270.0	23.94	22.12	20.54	19.43	18.20	17.38	16.80	16.15	15.74
315.0	22.88	21.30	19.78	18.84	17.85	16.97	16.33	15.86	15.33
360.0	23.94	22.30	20.72	19.43	18.32	17.38	16.74	16.21	15.74
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.27	14.86	14.57	14.22	13.81	13.52	13.11	12.82	12.47
45.0	15.92	15.51	15.16	14.75	14.40	14.34	15.63	16.04	15.92
90.0	15.33	14.86	14.57	14.22	13.87	13.46	13.17	12.82	12.58
135.0	15.39	15.04	14.63	14.28	13.99	13.58	13.28	12.99	12.64
180.0	14.92	14.57	14.28	13.93	13.58	13.28	12.99	12.70	12.35
225.0	14.86	14.51	14.22	14.05	15.10	15.92	15.74	15.51	13.93
270.0	15.33	14.98	14.57	14.22	13.87	13.58	13.17	12.93	12.70
315.0	14.98	14.57	14.22	13.87	13.58	13.17	12.87	12.58	12.29
360.0	15.27	14.86	14.57	14.22	13.81	13.52	13.11	12.82	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	11.88	11.59	11.24	11.00	10.71	10.42	10.30	10.12
45.0	15.39	13.87	12.41	11.53	11.24	10.94	10.65	10.42	10.24
90.0	12.23	11.88	11.53	11.18	10.94	10.65	10.42	10.24	10.01
135.0	12.35	12.00	11.65	11.41	11.12	10.71	10.48	10.24	10.07
180.0	12.06	11.70	11.35	11.12	10.71	10.48	10.24	10.07	9.95
225.0	12.00	11.41	11.12	10.89	10.53	10.24	10.07	9.89	9.95
270.0	12.58	11.88	11.35	11.12	10.89	10.59	10.30	10.07	9.89
315.0	11.88	11.59	11.29	11.00	10.71	10.48	10.30	10.07	9.95
360.0	12.17	11.88	11.59	11.24	11.00	10.71	10.42	10.30	10.12

Intensity data(cd)

C/γ(°)	90.0
0.0	9.95
45.0	10.07
90.0	9.89
135.0	9.95
180.0	9.89
225.0	9.95
270.0	9.95
315.0	10.01
360.0	9.95