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NT

Client:

LumCAT: 2-2688-L

Luminaire: 92.70.429.00

Report No: 2024411-B008

Ballast type: AC

Test No: 2024411-C008

Voltage(V): 34.760

LampCAT: CREE CXA1830 LES14

Current(A): 0.530

Lamp flux(lm): 2685.0

Power (W): 18.422

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 2208.72, Efficiency(%): 82.26% , Luminous Efficacy(lm/W): 119.90

Central intensity(cd): 5433.873, Maximum intensity(cd): 5433.873

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

Beam Angle(50%Imax): [C0/180]Total=35.0

[C90/270]Total=35.0

Field angle(10%Imax): [C0/180]Total=60.6

[C90/270]Total=60.6

Maximum s/h(1/2): C0\_180=0.57 C90\_270=0.57

Maximum s/h(1/4): C0\_180=0.57 C90\_270=0.57

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 82.26%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.656%

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	5433.873	0.000	0	0.00%	0.00%
1.0	5428.971	5.198	5.198	0.19%	0.24%
2.0	5410.683	15.558	20.756	0.58%	0.94%
3.0	5381.349	25.811	46.567	0.96%	2.11%
4.0	5333.433	35.866	82.433	1.34%	3.73%
5.0	5271.473	45.622	128.054	1.70%	5.80%
6.0	5174.399	54.896	182.95	2.04%	8.28%
7.0	5052.013	63.475	246.425	2.36%	11.16%
8.0	4901.098	71.233	317.658	2.65%	14.38%
9.0	4723.702	78.004	395.662	2.91%	17.91%
10.0	4529.773	83.741	479.402	3.12%	21.70%
11.0	4318.653	88.414	567.816	3.29%	25.71%
12.0	4078.711	91.795	659.611	3.42%	29.86%
13.0	3846.304	94.050	753.661	3.50%	34.12%
14.0	3598.900	95.298	848.959	3.55%	38.44%
15.0	3338.328	95.237	944.197	3.55%	42.75%
16.0	3068.978	93.885	1038.082	3.50%	47.00%
17.0	2833.937	91.924	1130.006	3.42%	51.16%
18.0	2588.362	89.402	1219.408	3.33%	55.21%
19.0	2354.858	86.002	1305.41	3.20%	59.10%
20.0	2118.427	81.874	1387.283	3.05%	62.81%
21.0	1912.866	77.409	1464.692	2.88%	66.31%
22.0	1711.915	72.842	1537.534	2.71%	69.61%
23.0	1501.819	67.433	1604.967	2.51%	72.66%
24.0	1300.611	61.271	1666.238	2.28%	75.44%
25.0	1219.755	57.308	1723.545	2.13%	78.03%
26.0	1094.876	54.637	1778.183	2.03%	80.51%
27.0	949.133	50.007	1828.19	1.86%	82.77%
28.0	818.181	44.745	1872.934	1.67%	84.80%
29.0	695.635	39.606	1912.54	1.48%	86.59%
30.0	580.397	34.453	1946.993	1.28%	88.15%
31.0	467.456	29.160	1976.153	1.09%	89.47%
32.0	369.050	23.965	2000.118	0.89%	90.56%
33.0	280.769	19.144	2019.262	0.71%	91.42%
34.0	237.843	15.695	2034.956	0.58%	92.13%
35.0	187.440	13.208	2048.164	0.49%	92.73%
36.0	127.791	10.037	2058.201	0.37%	93.19%
37.0	112.100	7.824	2066.025	0.29%	93.54%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	101.690	7.136	2073.161	0.27%	93.86%
39.0	91.858	6.606	2079.767	0.25%	94.16%
40.0	83.716	6.123	2085.891	0.23%	94.44%
41.0	76.291	5.698	2091.589	0.21%	94.70%
42.0	69.525	5.298	2096.886	0.20%	94.94%
43.0	64.060	4.948	2101.835	0.18%	95.16%
44.0	58.969	4.643	2106.478	0.17%	95.37%
45.0	54.470	4.360	2110.838	0.16%	95.57%
46.0	50.761	4.115	2114.953	0.15%	95.75%
47.0	47.498	3.908	2118.861	0.15%	95.93%
48.0	44.375	3.714	2122.575	0.14%	96.10%
49.0	41.631	3.532	2126.107	0.13%	96.26%
50.0	39.364	3.377	2129.484	0.13%	96.41%
51.0	37.250	3.241	2132.725	0.12%	96.56%
52.0	35.252	3.111	2135.837	0.12%	96.70%
53.0	33.504	2.991	2138.827	0.11%	96.84%
54.0	31.851	2.881	2141.708	0.11%	96.97%
55.0	30.380	2.778	2144.486	0.10%	97.09%
56.0	28.859	2.677	2147.163	0.10%	97.21%
57.0	27.601	2.581	2149.744	0.10%	97.33%
58.0	26.196	2.488	2152.232	0.09%	97.44%
59.0	25.070	2.397	2154.629	0.09%	97.55%
60.0	23.943	2.316	2156.944	0.09%	97.66%
61.0	22.882	2.235	2159.179	0.08%	97.76%
62.0	21.909	2.158	2161.337	0.08%	97.85%
63.0	21.061	2.090	2163.427	0.08%	97.95%
64.0	20.293	2.029	2165.456	0.08%	98.04%
65.0	19.539	1.971	2167.427	0.07%	98.13%
66.0	18.859	1.916	2169.343	0.07%	98.22%
67.0	18.281	1.867	2171.211	0.07%	98.30%
68.0	17.842	1.830	2173.041	0.07%	98.38%
69.0	17.696	1.813	2174.854	0.07%	98.47%
70.0	17.688	1.817	2176.671	0.07%	98.55%
71.0	17.915	1.840	2178.511	0.07%	98.63%
72.0	18.486	1.893	2180.404	0.07%	98.72%
73.0	19.108	1.966	2182.37	0.07%	98.81%
74.0	19.700	2.040	2184.41	0.08%	98.90%
75.0	20.278	2.112	2186.522	0.08%	98.99%

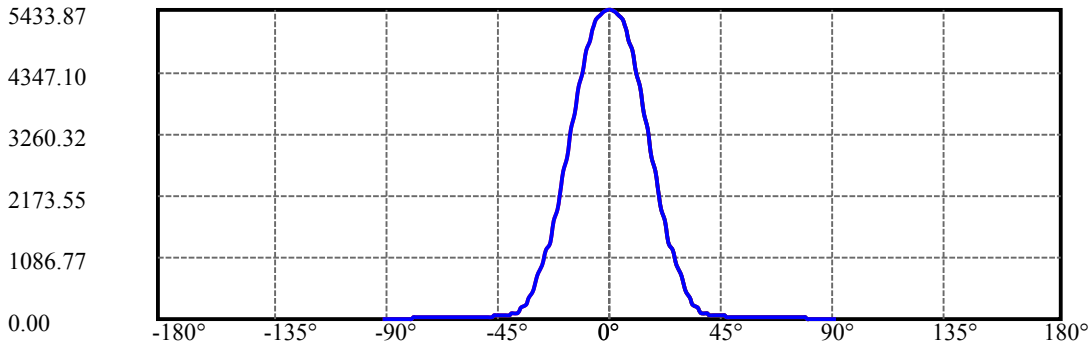
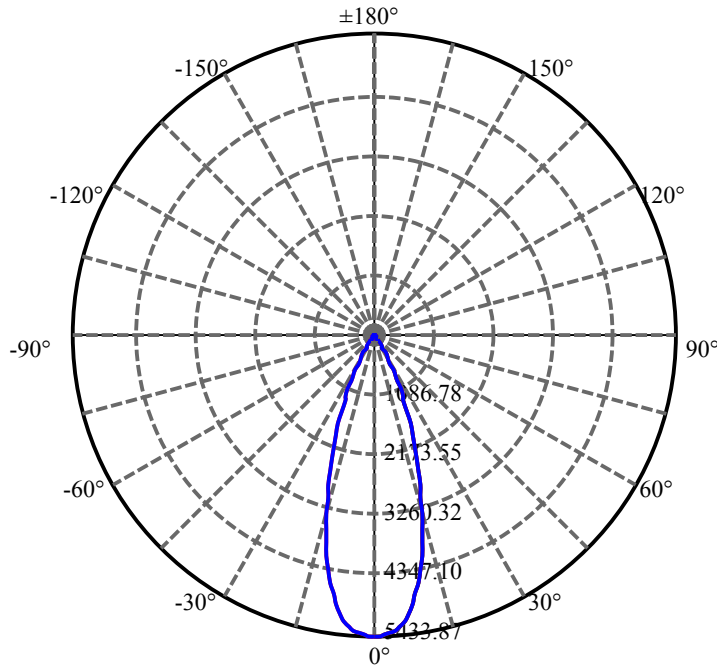
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	20.015	2.139	2188.661	0.08%	99.09%
77.0	19.320	2.097	2190.758	0.08%	99.19%
78.0	18.040	2.000	2192.758	0.07%	99.28%
79.0	16.306	1.845	2194.603	0.07%	99.36%
80.0	14.638	1.668	2196.272	0.06%	99.44%
81.0	13.321	1.512	2197.784	0.06%	99.50%
82.0	12.516	1.401	2199.185	0.05%	99.57%
83.0	12.282	1.348	2200.533	0.05%	99.63%
84.0	12.114	1.329	2201.862	0.05%	99.69%
85.0	11.668	1.298	2203.16	0.05%	99.75%
86.0	10.797	1.228	2204.388	0.05%	99.80%
87.0	10.007	1.139	2205.527	0.04%	99.86%
88.0	9.773	1.084	2206.61	0.04%	99.90%
89.0	9.590	1.061	2207.671	0.04%	99.95%
90.0	9.568	1.050	2208.722	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1946.99	72.51%	88.15%
0-40	2085.89	77.69%	94.44%
0-60	2156.94	80.33%	97.66%
0-90	2207.67	82.22%	99.95%
0-120	2207.67	82.22%	99.95%
0-180	2208.72	82.26%	100.00%
60-90	50.73	1.89%	2.30%
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%
0-25.79	1766.98	65.81%	80.00%

ZONAL LUMEN SUMMARY

0-10	479.40
10-20	907.88
20-30	559.71
30-40	138.90
40-50	43.59
50-60	27.46
60-70	19.73
70-80	19.60
80-90	11.40
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: —————

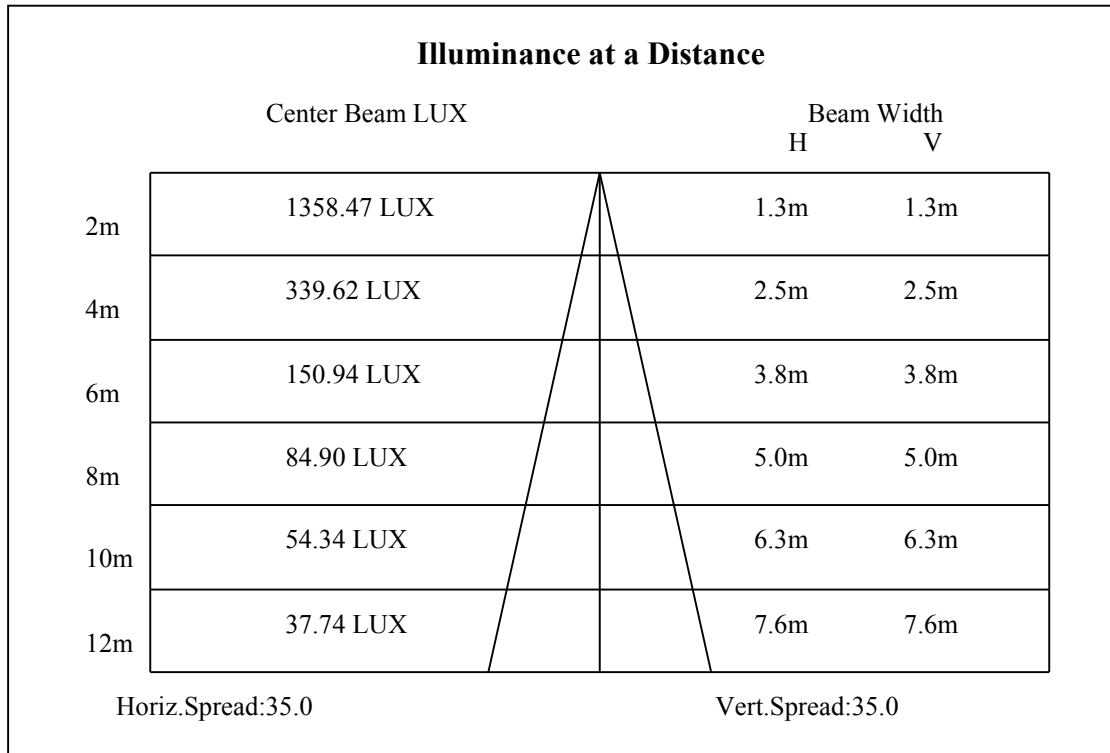
C90/C270: —————

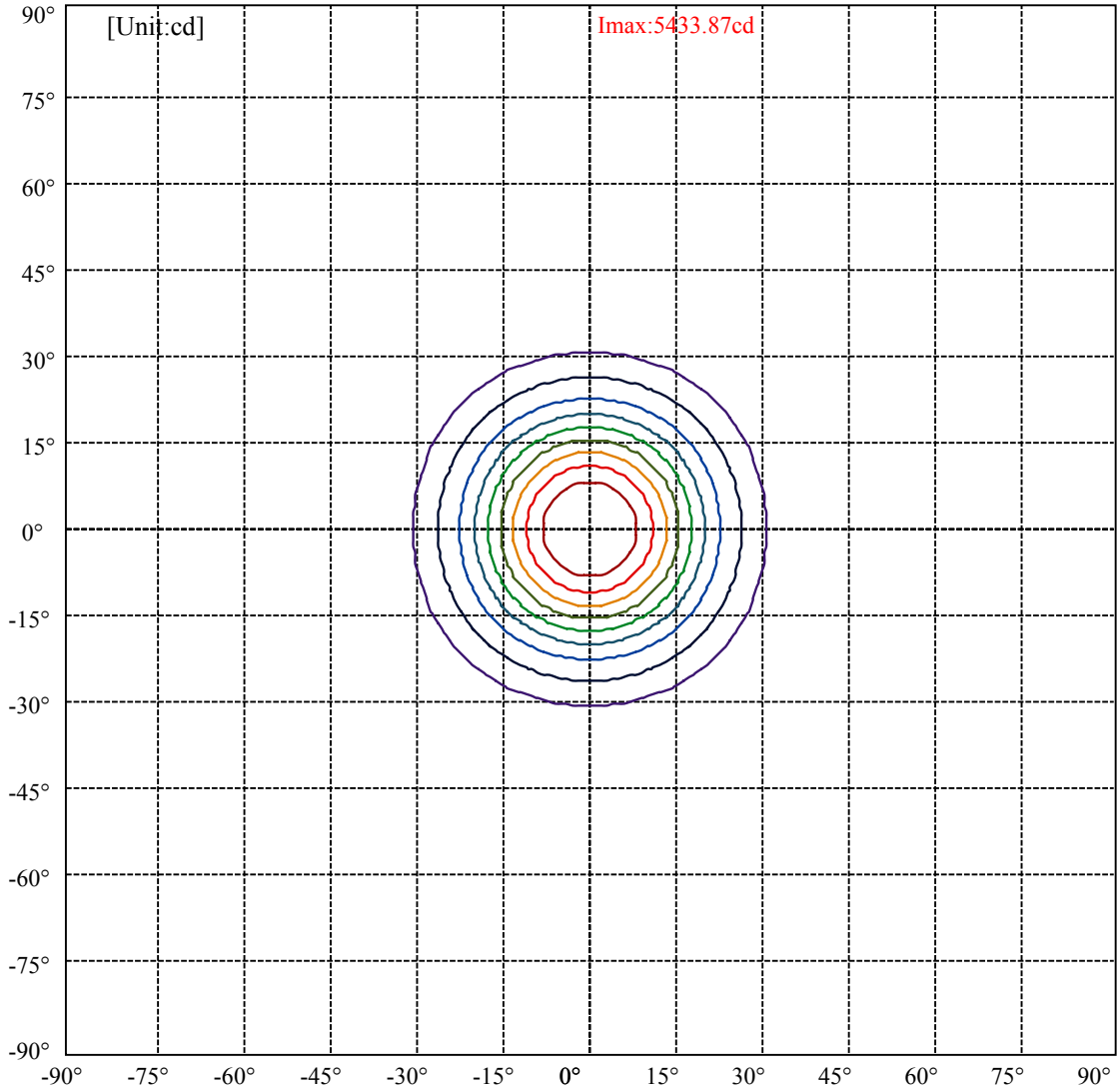
Field angle(10%Imax):C0/180Left:30.3 Right:30.3

:C90/270Left:30.3 Right:30.3

Beam Angle(50%Imax):C0/180Left:17.5 Right:17.5

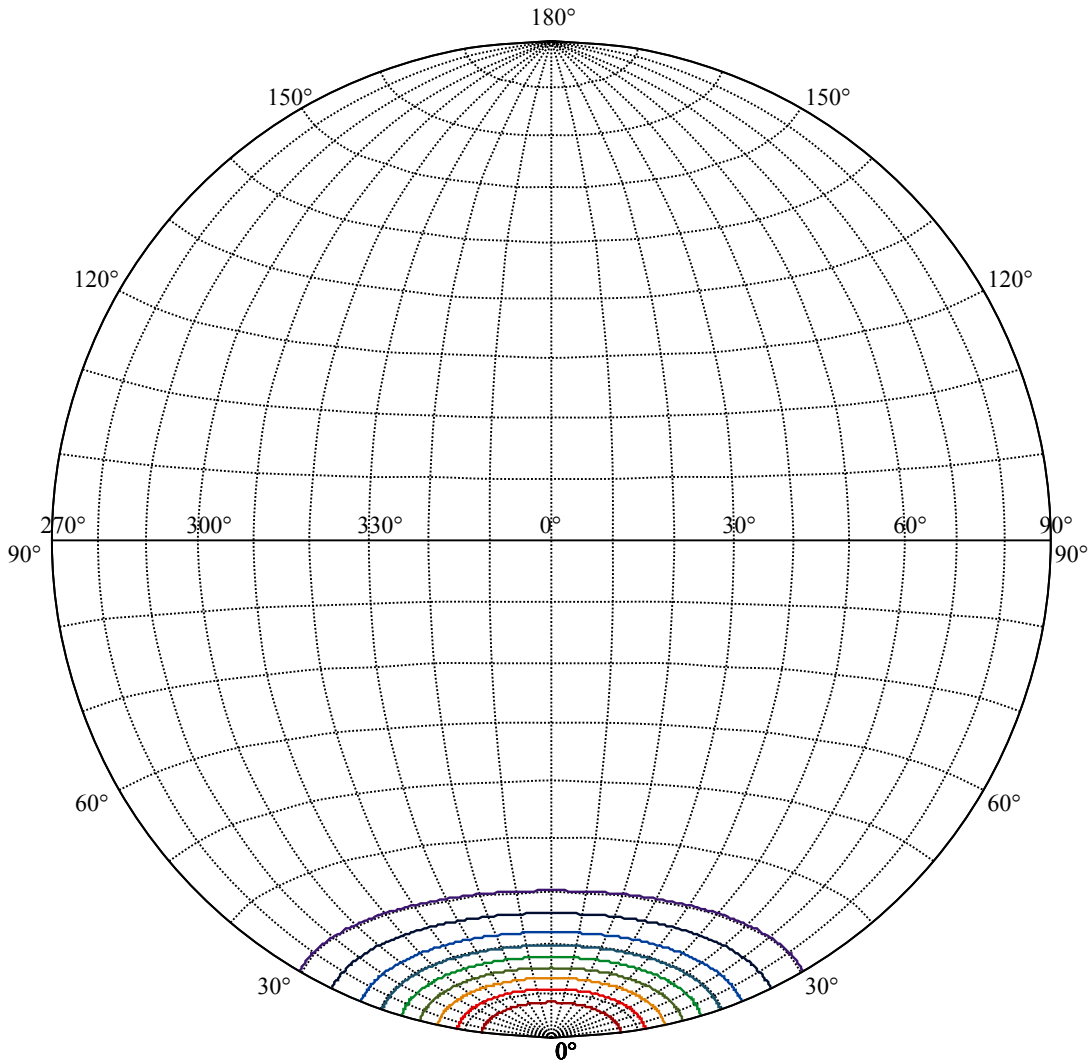
:C90/270Left:17.5 Right:17.5





(10%Imax) 543.387	—
(20%Imax) 1086.77	—
(30%Imax) 1630.16	—
(40%Imax) 2173.55	—
(50%Imax) 2716.94	—
(60%Imax) 3260.32	—
(70%Imax) 3803.71	—
(80%Imax) 4347.1	—
(90%Imax) 4890.49	—





House

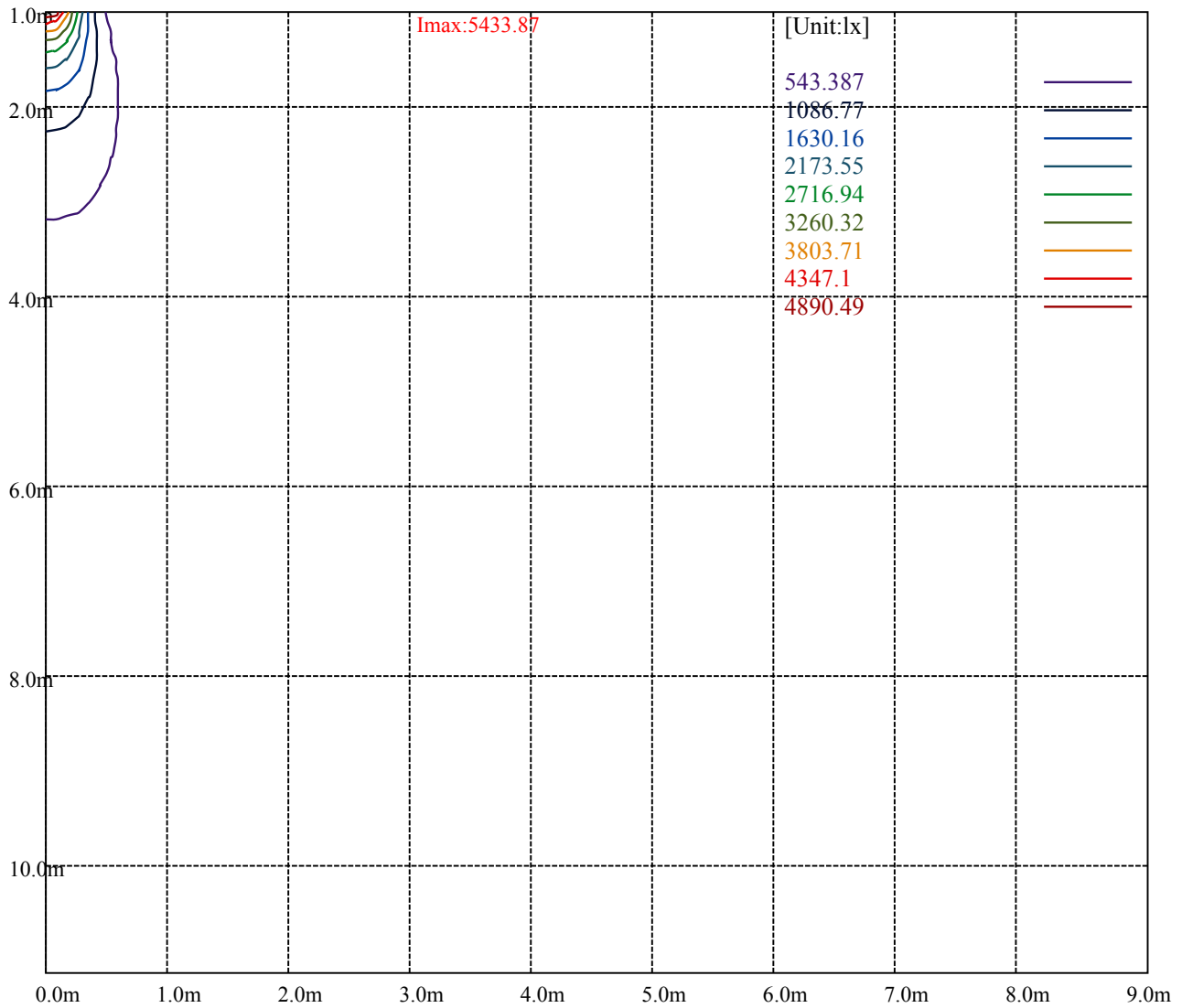
[Unit:cd]

Road

**Imax:5433.87**

(10%Imax) 543.387	—
(20%Imax) 1086.77	—
(30%Imax) 1630.16	—
(40%Imax) 2173.55	—
(50%Imax) 2716.94	—
(60%Imax) 3260.32	—
(70%Imax) 3803.71	—
(80%Imax) 4347.1	—
(90%Imax) 4890.49	—





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

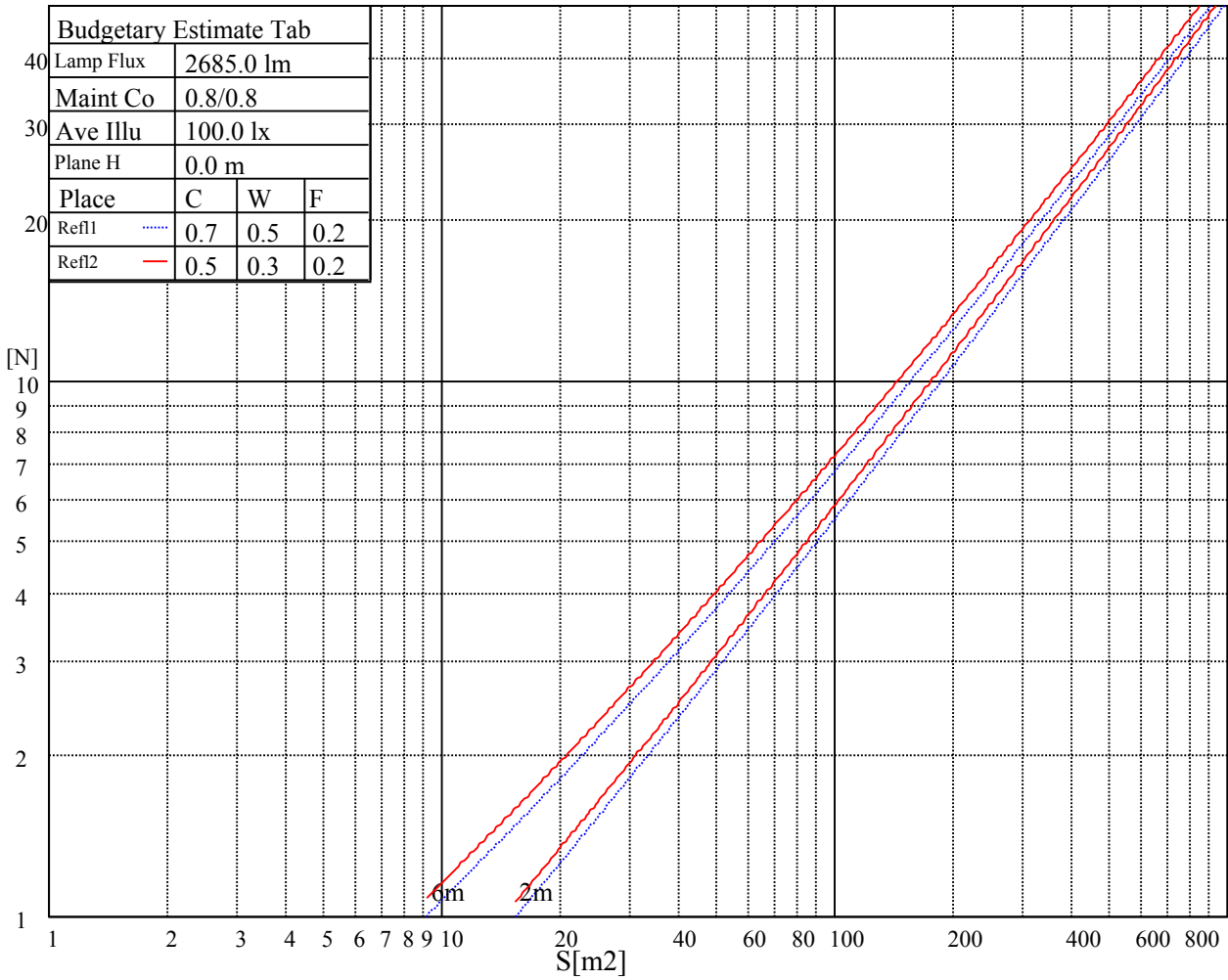
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

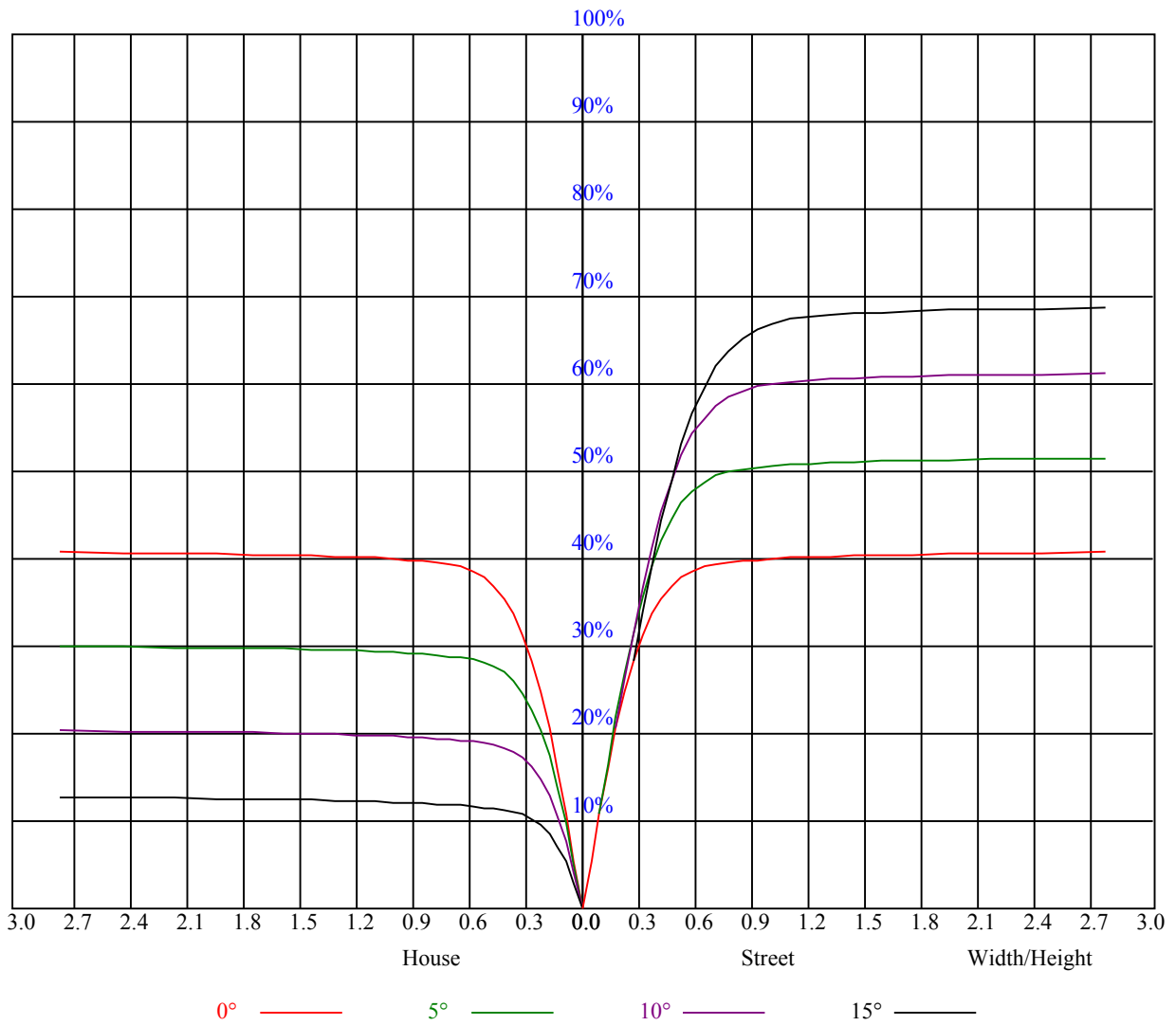


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字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

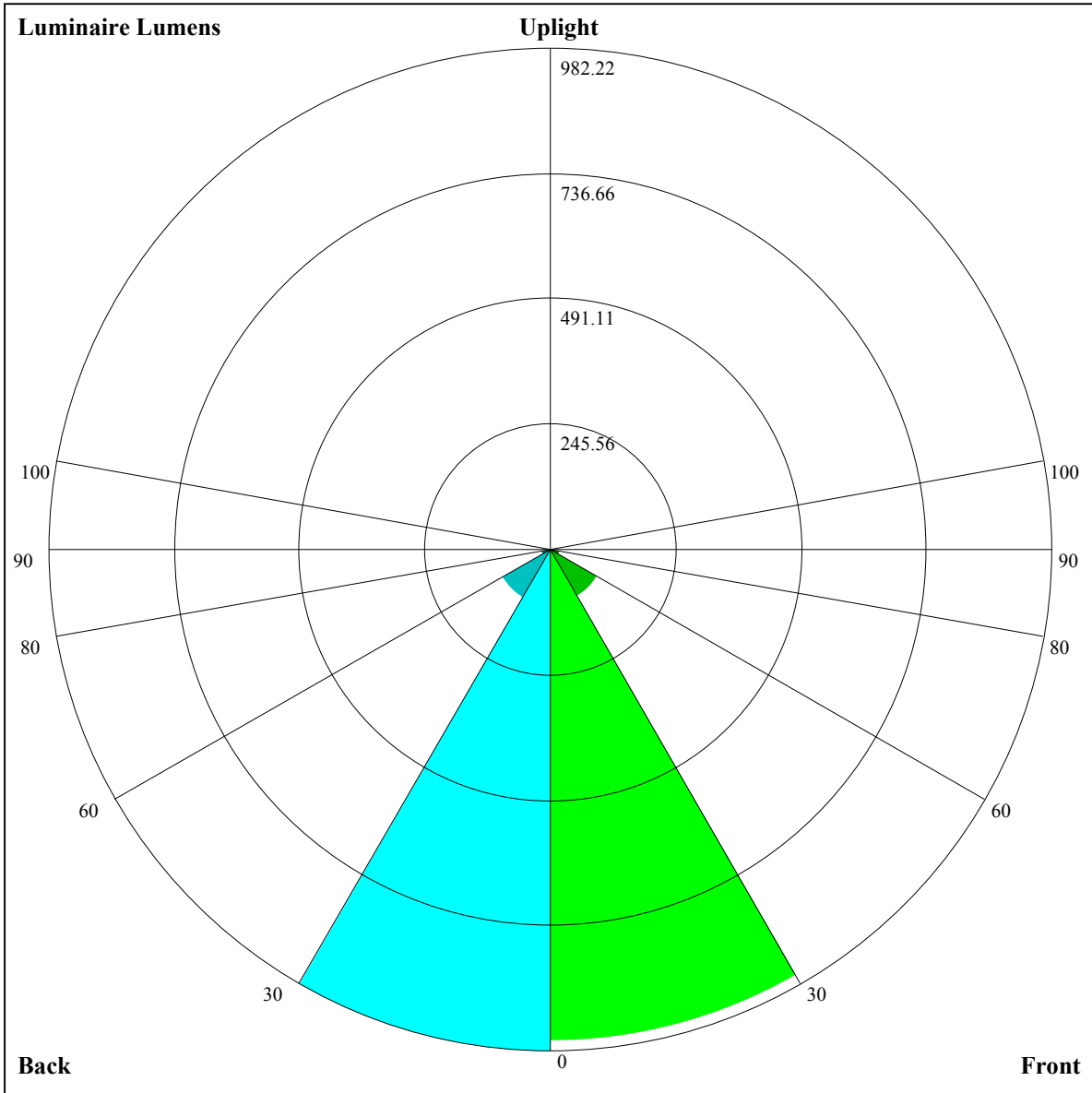
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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 RHOFC=20 CU															
0	0.98	0.98	0.98	0.96	0.96	0.96	0.91	0.91	0.91	0.88	0.88	0.88	0.84	0.84	0.84	0.82
1	0.92	0.90	0.88	0.90	0.88	0.87	0.87	0.85	0.84	0.83	0.82	0.81	0.81	0.80	0.79	0.78
2	0.86	0.83	0.81	0.85	0.82	0.80	0.82	0.80	0.78	0.80	0.78	0.76	0.78	0.76	0.75	0.74
3	0.82	0.78	0.75	0.80	0.77	0.75	0.78	0.76	0.73	0.76	0.74	0.72	0.75	0.73	0.71	0.70
4	0.77	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.69	0.73	0.71	0.69	0.72	0.70	0.68	0.67
5	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.70	0.68	0.65	0.69	0.67	0.65	0.64
6	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.61
7	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.64	0.61	0.59	0.58
8	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.63	0.60	0.57	0.62	0.59	0.57	0.56
9	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.60	0.57	0.55	0.60	0.57	0.55	0.54
10	0.60	0.56	0.53	0.59	0.56	0.53	0.59	0.55	0.53	0.58	0.55	0.53	0.58	0.55	0.53	0.52







Luminaire Lumens:

FL=964.22,FM=104.82,FH=20.35,FVH=6.39

BL=982.22,BM=108.47,BH=20.03,BVH=6.15

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	5438.55	5441.48	5427.44	5388.23	5340.82	5276.45	5178.71	5021.87	4869.72
45.0	5425.09	5436.21	5435.04	5416.90	5381.79	5343.16	5250.70	5159.40	5031.24
90.0	5439.14	5422.17	5397.59	5360.72	5296.93	5226.12	5106.15	4981.49	4831.09
135.0	5432.70	5427.44	5410.46	5379.45	5347.84	5283.47	5211.49	5124.87	4986.18
180.0	5438.55	5429.78	5407.54	5380.03	5339.07	5273.52	5195.69	5095.03	4943.45
225.0	5425.09	5415.15	5378.28	5342.58	5288.74	5221.44	5088.59	4952.82	4796.56
270.0	5439.14	5435.63	5425.68	5409.88	5364.23	5315.66	5243.67	5143.02	4965.69
315.0	5432.70	5423.92	5403.44	5373.01	5308.05	5231.97	5120.19	4937.60	4784.86
360.0	5438.55	5441.48	5427.44	5388.23	5340.82	5276.45	5178.71	5021.87	4869.72
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4647.33	4443.09	4232.41	3943.89	3703.36	3461.66	3221.14	2919.16	2688.00
45.0	4839.87	4671.32	4482.30	4222.46	4005.92	3774.17	3533.06	3231.67	2989.39
90.0	4667.81	4432.55	4233.58	4024.07	3787.05	3496.19	3260.35	2965.39	2734.81
135.0	4850.40	4707.02	4493.42	4294.44	4039.28	3815.14	3578.71	3280.83	3043.81
180.0	4803.00	4588.22	4396.27	4190.85	3973.74	3691.07	3453.47	3215.87	2975.93
225.0	4577.10	4377.54	4160.42	3892.98	3661.81	3428.89	3135.69	2901.60	2669.27
270.0	4810.02	4629.19	4430.80	4167.45	3942.72	3709.21	3406.07	3156.18	2917.99
315.0	4594.07	4389.25	4120.04	3893.56	3656.54	3414.85	3118.14	2881.12	2652.30
360.0	4647.33	4443.09	4232.41	3943.89	3703.36	3461.66	3221.14	2919.16	2688.00
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2471.46	2259.03	2002.70	1803.14	1618.79	1431.52	1139.37	1139.37	1010.92
45.0	2759.98	2538.76	2274.83	2068.83	1867.51	1630.50	1474.24	1305.11	1177.53
90.0	2512.43	2244.40	2039.57	1838.84	1605.33	1447.32	1155.00	1155.00	1061.89
135.0	2810.31	2586.17	2323.40	2118.57	1915.50	1720.62	1508.77	1373.00	1240.15
180.0	2695.02	2463.86	2240.30	2040.74	1798.45	1600.65	1442.64	1286.38	1154.71
225.0	2440.45	2168.90	1964.66	1764.51	1582.51	1298.67	1140.78	1109.00	981.95
270.0	2637.67	2411.19	2140.23	1947.10	1754.56	1570.22	1388.80	1268.24	1138.91
315.0	2379.58	2166.56	1961.73	1721.21	1552.66	1315.06	1155.29	1121.93	992.95
360.0	2471.46	2259.03	2002.70	1803.14	1618.79	1431.52	1139.37	1139.37	1010.92
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	883.10	762.78	625.37	523.25	425.58	334.05	235.08	175.10	138.00
45.0	1044.10	881.99	762.02	650.83	546.66	426.69	337.73	296.77	296.77
90.0	903.00	783.09	671.66	541.04	444.48	354.00	255.28	191.37	141.98
135.0	1071.61	935.25	810.60	668.39	561.87	438.39	346.51	303.21	303.21
180.0	989.09	867.36	749.15	634.44	505.69	414.98	326.03	303.21	206.99
225.0	857.71	711.11	604.60	502.65	384.43	297.53	221.27	163.39	125.30
270.0	1006.65	886.09	735.10	620.40	489.89	393.91	306.13	306.13	159.77
315.0	837.81	717.78	606.59	502.18	381.04	292.85	218.11	163.57	127.52
360.0	883.10	762.78	625.37	523.25	425.58	334.05	235.08	175.10	138.00
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	119.85	105.93	96.80	88.72	80.06	73.74	66.83	62.03	57.76
45.0	138.82	120.50	108.79	97.09	88.90	81.81	74.03	68.59	63.67
90.0	123.60	111.37	101.24	90.48	83.10	76.43	70.40	63.79	59.17
135.0	151.92	127.11	114.00	103.18	93.75	83.51	76.37	70.11	63.26
180.0	133.02	117.34	105.40	93.75	85.27	77.48	69.23	63.50	57.53
225.0	111.02	100.48	91.76	82.17	75.32	69.06	62.62	58.11	54.19
270.0	130.21	112.60	102.24	93.46	85.44	76.43	70.23	64.73	59.75
315.0	113.88	101.48	93.28	86.03	77.89	71.87	66.48	61.62	56.42
360.0	119.85	105.93	96.80	88.72	80.06	73.74	66.83	62.03	57.76

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	53.08	49.69	46.64	43.89	41.49	38.68	36.75	34.88	33.18
45.0	58.35	54.48	51.09	47.99	44.48	42.02	39.74	37.57	35.35
90.0	55.13	51.32	47.29	44.48	41.38	39.09	37.04	34.88	33.24
135.0	58.58	53.31	49.51	46.29	42.66	40.32	38.22	36.23	34.18
180.0	53.43	49.86	46.70	43.31	40.85	38.80	36.87	34.65	33.12
225.0	49.86	46.94	44.36	41.38	39.33	37.45	35.70	33.65	32.13
270.0	54.66	51.09	47.99	44.59	42.14	39.97	37.51	35.76	34.12
315.0	52.67	49.39	46.41	43.07	40.73	38.57	36.17	34.41	32.71
360.0	53.08	49.69	46.64	43.89	41.49	38.68	36.75	34.88	33.18
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	31.25	29.85	28.21	26.92	25.75	24.40	23.41	22.41	21.42
45.0	33.71	32.13	30.43	29.14	27.51	26.39	25.34	24.29	23.06
90.0	31.78	30.43	28.85	27.56	26.34	25.28	23.94	22.94	22.06
135.0	32.66	31.13	29.79	28.56	26.92	25.69	24.46	23.35	22.30
180.0	31.60	29.85	28.62	27.39	25.87	24.81	23.58	22.53	21.59
225.0	30.72	29.44	27.86	26.63	25.28	24.29	23.23	22.12	21.42
270.0	32.19	30.78	29.44	28.15	26.63	25.52	24.46	23.41	22.30
315.0	30.90	29.44	27.68	26.45	25.28	24.17	23.12	22.00	21.13
360.0	31.25	29.85	28.21	26.92	25.75	24.40	23.41	22.41	21.42
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.66	19.90	19.25	18.61	18.02	17.62	17.26	16.80	16.39
45.0	22.24	21.54	20.78	19.96	19.37	18.84	18.08	17.79	17.38
90.0	21.13	20.31	19.72	18.96	18.43	18.61	20.01	21.77	23.29
135.0	21.24	20.48	19.72	18.90	18.26	17.79	17.21	16.62	16.21
180.0	20.83	19.90	19.20	18.55	18.02	17.38	16.85	16.44	15.92
225.0	20.60	19.90	19.02	18.49	17.91	17.44	17.97	18.84	20.25
270.0	21.48	20.72	19.78	19.14	18.49	17.91	17.44	17.03	18.08
315.0	20.31	19.61	18.84	18.26	17.73	17.15	16.74	16.21	15.80
360.0	20.66	19.90	19.25	18.61	18.02	17.62	17.26	16.80	16.39
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.04	15.63	15.39	15.10	14.86	14.57	13.99	13.58	13.28
45.0	18.38	20.19	22.65	25.93	27.10	27.62	25.75	21.65	18.14
90.0	24.70	26.57	27.97	28.85	28.15	26.86	25.05	22.30	18.02
135.0	15.80	15.39	15.04	14.86	14.63	14.40	14.22	13.99	13.69
180.0	15.57	15.16	14.86	14.63	14.46	14.22	13.93	13.69	13.17
225.0	22.30	23.58	24.05	23.70	22.06	19.31	15.39	13.23	12.47
270.0	19.66	21.24	22.82	24.58	24.46	23.53	22.24	18.61	15.22
315.0	15.45	15.10	14.81	14.57	14.40	14.05	13.75	13.40	13.11
360.0	16.04	15.63	15.39	15.10	14.86	14.57	13.99	13.58	13.28
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.11	13.05	13.05	13.11	13.17	12.23	9.95	9.89	9.54
45.0	14.86	12.93	12.64	12.64	12.64	12.76	10.65	10.18	9.77
90.0	14.92	12.11	11.65	11.35	10.89	10.24	9.95	9.66	9.48
135.0	13.52	13.17	12.76	12.29	11.82	10.42	10.07	9.83	9.66
180.0	12.64	12.35	12.17	12.00	10.65	10.18	9.95	9.71	9.71
225.0	12.29	12.17	12.11	11.88	10.53	10.24	9.77	9.71	9.48
270.0	12.47	11.88	11.65	11.47	11.41	10.30	9.95	9.71	9.48
315.0	12.76	12.47	12.23	12.17	12.23	10.01	9.77	9.48	9.60
360.0	13.11	13.05	13.05	13.11	13.17	12.23	9.95	9.89	9.54

Intensity data(cd)

C/ $\gamma$ (°)	90.0
0.0	9.66
45.0	9.54
90.0	9.48
135.0	9.54
180.0	9.48
225.0	9.66
270.0	9.66
315.0	9.54
360.0	9.66