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NT

Client:

LumCAT: 2-2678-L

Luminaire: 92.70.429.00

Report No: 2024410-B012

Ballast type: AC

Test No: 2024410-C012

Voltage(V): 34.790

LampCAT: CREE CXA1830 LES14

Current(A): 0.530

Lamp flux(lm): 2713.0

Power (W): 18.438

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2316.86, Efficiency(%): 85.40% , Luminous Efficacy(lm/W): 125.66

Central intensity(cd): 10011.940, Maximum intensity(cd): 10011.940

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=20.8

[C90/270]Total=20.8

Field angle(10%Imax): [C0/180]Total=52.6

[C90/270]Total=52.6

Maximum s/h(1/2): C0_180=0.35 C90_270=0.35

Maximum s/h(1/4): C0_180=0.38 C90_270=0.38

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 85.40%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.056%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/10
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	10011.942	0.000	0	0.00%	0.00%
1.0	9959.783	9.556	9.556	0.35%	0.41%
2.0	9810.258	28.376	37.932	1.05%	1.64%
3.0	9562.489	46.333	84.265	1.71%	3.64%
4.0	9170.607	62.706	146.971	2.31%	6.34%
5.0	8714.132	76.939	223.91	2.84%	9.66%
6.0	8090.940	88.315	312.225	3.26%	13.48%
7.0	7395.181	96.122	408.347	3.54%	17.63%
8.0	6693.277	100.828	509.176	3.72%	21.98%
9.0	5939.873	102.385	611.56	3.77%	26.40%
10.0	5267.157	101.420	712.98	3.74%	30.77%
11.0	4586.101	98.454	811.434	3.63%	35.02%
12.0	4011.118	93.980	905.414	3.46%	39.08%
13.0	3518.724	89.360	994.774	3.29%	42.94%
14.0	3090.412	84.596	1079.371	3.12%	46.59%
15.0	2738.034	80.016	1159.386	2.95%	50.04%
16.0	2444.178	75.934	1235.32	2.80%	53.32%
17.0	2186.605	72.114	1307.434	2.66%	56.43%
18.0	1969.926	68.532	1375.966	2.53%	59.39%
19.0	1799.260	65.576	1441.542	2.42%	62.22%
20.0	1636.494	62.884	1504.426	2.32%	64.93%
21.0	1501.526	60.256	1564.682	2.22%	67.53%
22.0	1358.161	57.467	1622.149	2.12%	70.02%
23.0	1241.379	54.545	1676.694	2.01%	72.37%
24.0	1180.611	52.953	1729.648	1.95%	74.65%
25.0	1106.668	52.008	1781.656	1.92%	76.90%
26.0	1027.304	50.373	1832.028	1.86%	79.07%
27.0	952.300	48.431	1880.46	1.79%	81.16%
28.0	878.174	46.344	1926.803	1.71%	83.16%
29.0	796.001	43.801	1970.605	1.61%	85.06%
30.0	709.951	40.660	2011.265	1.50%	86.81%
31.0	621.853	37.062	2048.327	1.37%	88.41%
32.0	538.195	33.234	2081.561	1.22%	89.84%
33.0	456.541	29.305	2110.866	1.08%	91.11%
34.0	380.784	25.340	2136.206	0.93%	92.20%
35.0	310.542	21.470	2157.676	0.79%	93.13%
36.0	266.826	18.384	2176.06	0.68%	93.92%
37.0	224.405	16.021	2192.081	0.59%	94.61%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	151.844	12.559	2204.64	0.46%	95.16%
39.0	109.510	8.921	2213.561	0.33%	95.54%
40.0	83.460	6.730	2220.291	0.25%	95.83%
41.0	65.128	5.291	2225.582	0.20%	96.06%
42.0	51.712	4.245	2229.827	0.16%	96.24%
43.0	43.409	3.524	2233.35	0.13%	96.40%
44.0	37.359	3.048	2236.399	0.11%	96.53%
45.0	33.197	2.712	2239.11	0.10%	96.64%
46.0	30.585	2.494	2241.605	0.09%	96.75%
47.0	28.391	2.346	2243.95	0.09%	96.85%
48.0	26.855	2.233	2246.184	0.08%	96.95%
49.0	25.750	2.160	2248.344	0.08%	97.04%
50.0	24.894	2.112	2250.455	0.08%	97.13%
51.0	24.294	2.081	2252.536	0.08%	97.22%
52.0	23.958	2.071	2254.607	0.08%	97.31%
53.0	23.753	2.075	2256.682	0.08%	97.40%
54.0	23.680	2.091	2258.773	0.08%	97.49%
55.0	23.709	2.115	2260.888	0.08%	97.58%
56.0	23.760	2.145	2263.033	0.08%	97.68%
57.0	23.811	2.175	2265.208	0.08%	97.77%
58.0	23.746	2.199	2267.408	0.08%	97.87%
59.0	23.504	2.209	2269.617	0.08%	97.96%
60.0	23.072	2.200	2271.817	0.08%	98.06%
61.0	22.399	2.170	2273.987	0.08%	98.15%
62.0	21.529	2.117	2276.104	0.08%	98.24%
63.0	20.454	2.042	2278.146	0.08%	98.33%
64.0	19.181	1.945	2280.09	0.07%	98.41%
65.0	17.981	1.839	2281.93	0.07%	98.49%
66.0	16.891	1.740	2283.669	0.06%	98.57%
67.0	15.962	1.652	2285.321	0.06%	98.64%
68.0	15.289	1.583	2286.904	0.06%	98.71%
69.0	14.828	1.536	2288.441	0.06%	98.77%
70.0	14.375	1.500	2289.941	0.06%	98.84%
71.0	14.067	1.470	2291.411	0.05%	98.90%
72.0	13.811	1.450	2292.86	0.05%	98.96%
73.0	13.870	1.448	2294.308	0.05%	99.03%
74.0	14.148	1.473	2295.781	0.05%	99.09%
75.0	14.609	1.519	2297.3	0.06%	99.16%

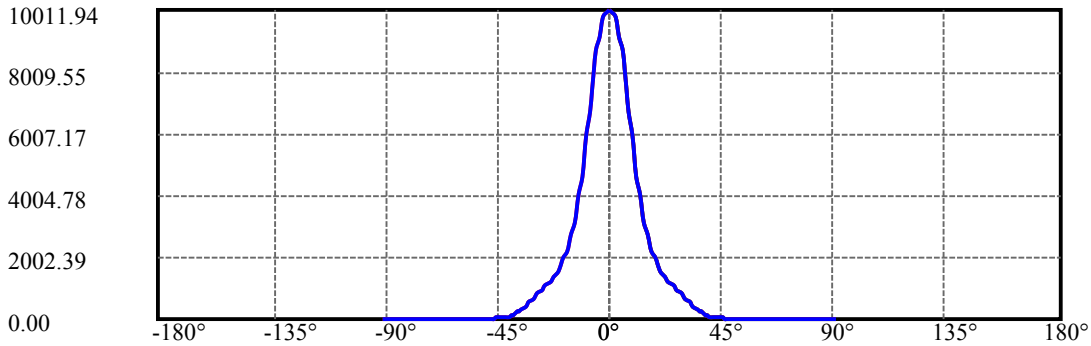
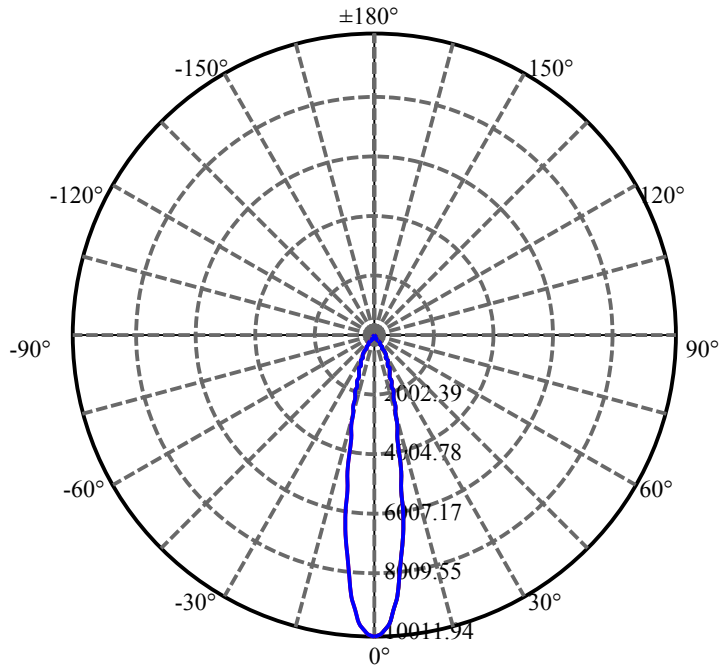
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.792	1.561	2298.861	0.06%	99.22%
77.0	14.594	1.567	2300.428	0.06%	99.29%
78.0	14.323	1.548	2301.976	0.06%	99.36%
79.0	13.650	1.503	2303.479	0.06%	99.42%
80.0	12.948	1.434	2304.913	0.05%	99.48%
81.0	12.385	1.370	2306.283	0.05%	99.54%
82.0	11.697	1.306	2307.588	0.05%	99.60%
83.0	11.412	1.256	2308.845	0.05%	99.65%
84.0	11.192	1.231	2310.076	0.05%	99.71%
85.0	10.761	1.198	2311.274	0.04%	99.76%
86.0	10.417	1.158	2312.432	0.04%	99.81%
87.0	10.212	1.129	2313.561	0.04%	99.86%
88.0	10.081	1.112	2314.673	0.04%	99.91%
89.0	9.934	1.097	2315.77	0.04%	99.95%
90.0	9.876	1.086	2316.856	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2011.26	74.13%	86.81%
0-40	2220.29	81.84%	95.83%
0-60	2271.82	83.74%	98.06%
0-90	2315.77	85.36%	99.95%
0-120	2315.77	85.36%	99.95%
0-180	2316.86	85.40%	100.00%
60-90	43.95	1.62%	1.90%
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%
0-26.44	1853.49	68.32%	80.00%

ZONAL LUMEN SUMMARY

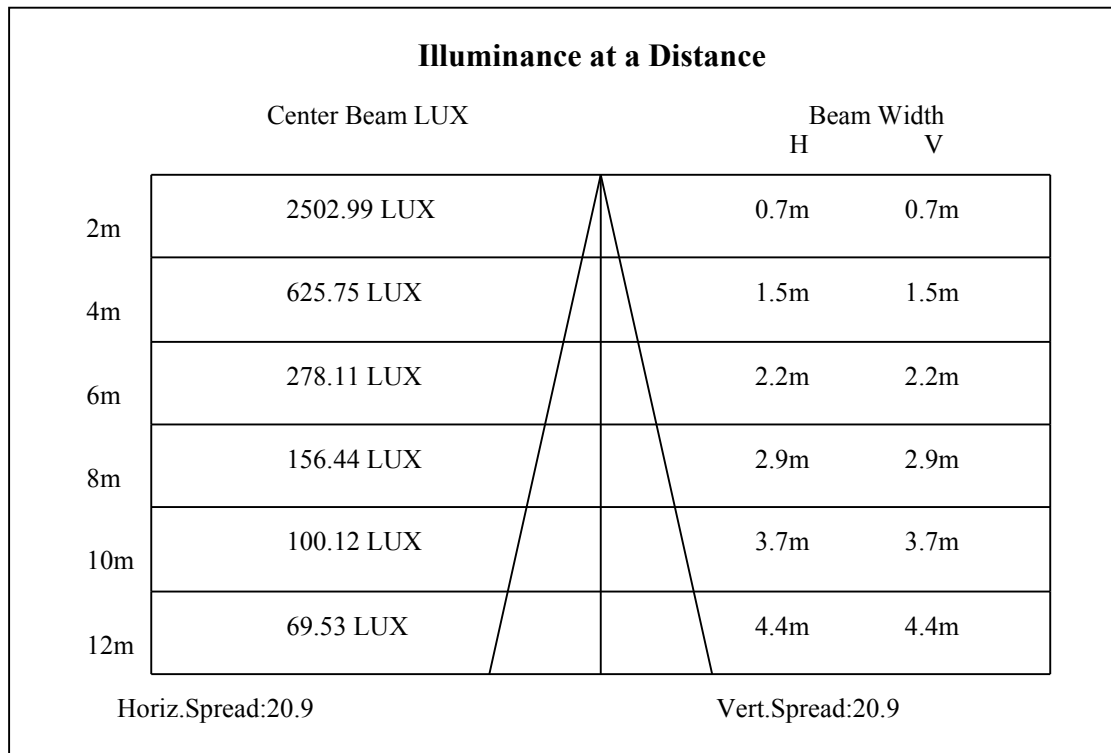
0-10	712.98
10-20	791.45
20-30	506.84
30-40	209.03
40-50	30.16
50-60	21.36
60-70	18.12
70-80	14.97
80-90	10.86
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

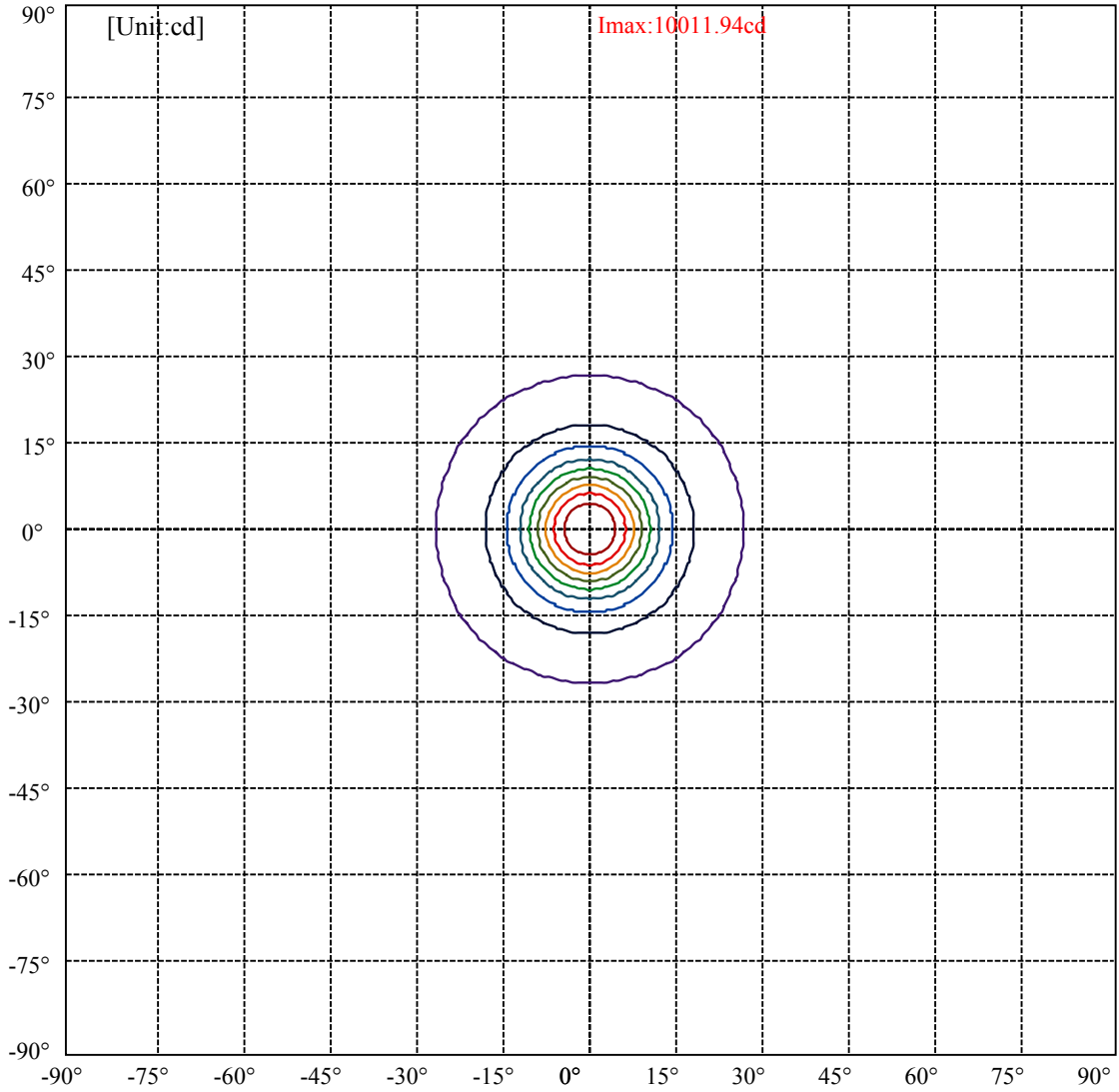


C0(Max): —————
C0/C180: —————
C90/C270: —————

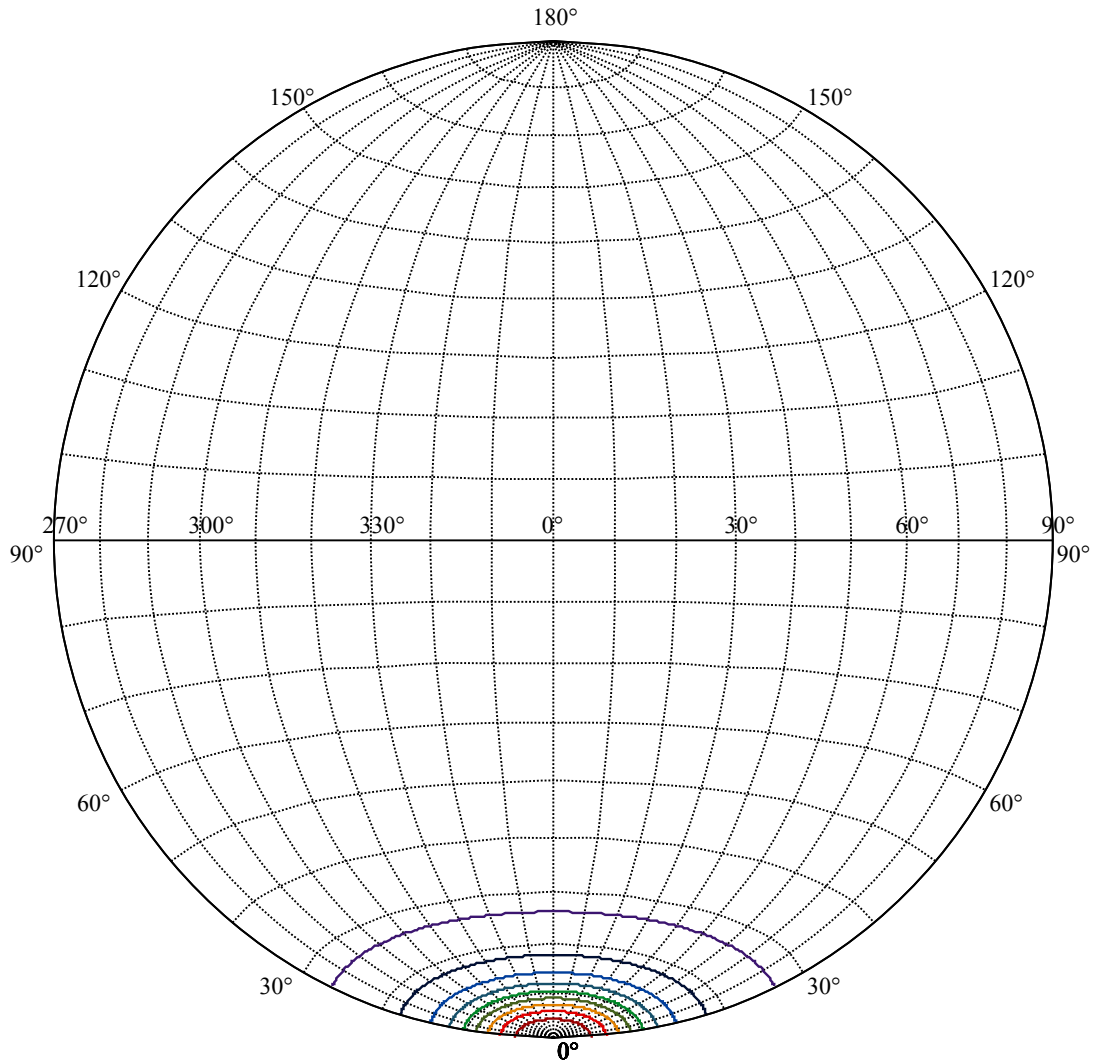
Field angle(10%Imax):C0/180Left:26.3 Right:26.3
:C90/270Left:26.3 Right:26.3

Beam Angle(50%Imax):C0/180Left:10.4 Right:10.4
:C90/270Left:10.4 Right:10.4





(10%Imax) 1001.19	—
(20%Imax) 2002.39	—
(30%Imax) 3003.58	—
(40%Imax) 4004.78	—
(50%Imax) 5005.97	—
(60%Imax) 6007.17	—
(70%Imax) 7008.36	—
(80%Imax) 8009.55	—
(90%Imax) 9010.75	—



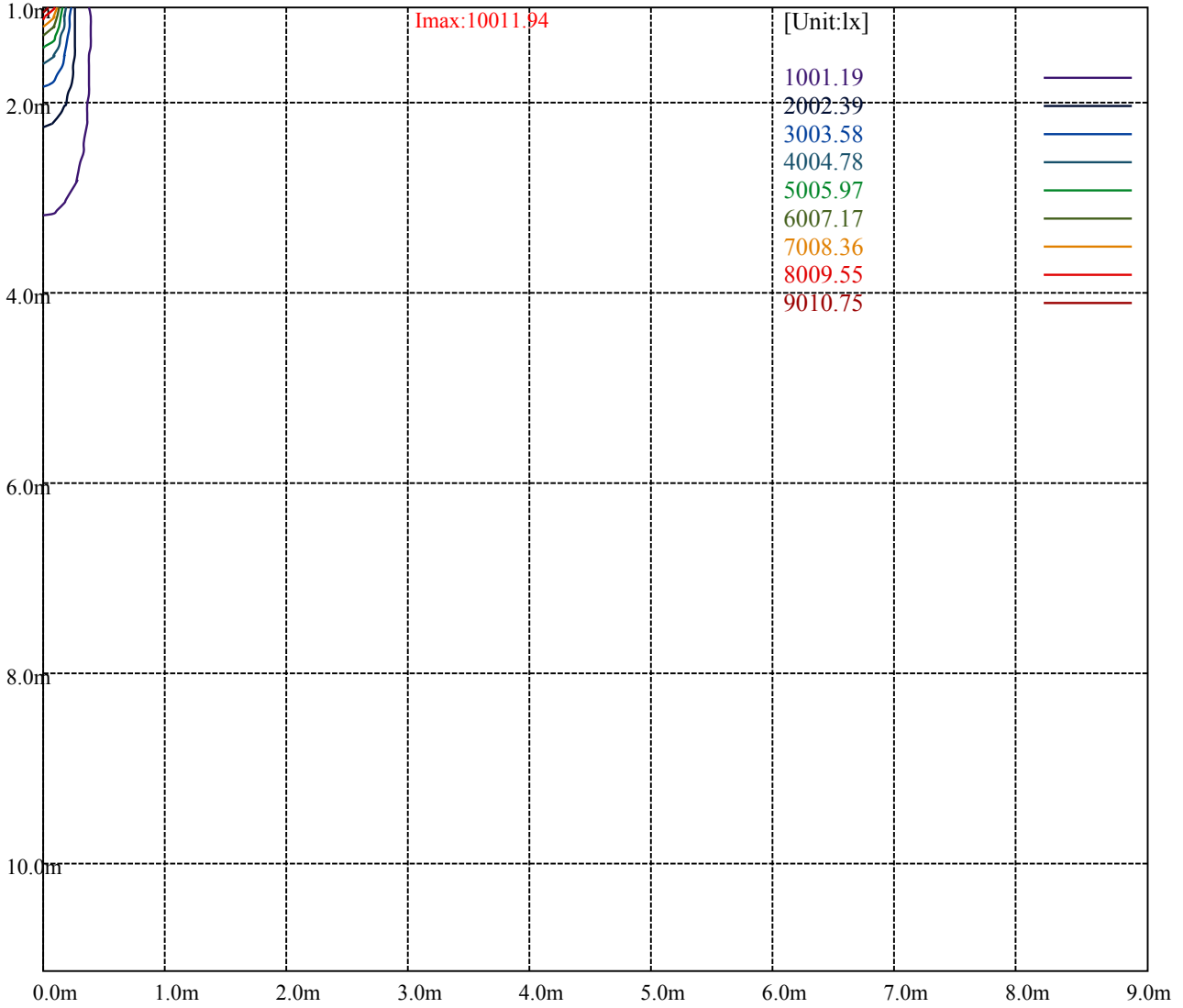
House

[Unit:cd]

Road

Imax:10011.94

(10%Imax)	1001.19	—
(20%Imax)	2002.39	—
(30%Imax)	3003.58	—
(40%Imax)	4004.78	—
(50%Imax)	5005.97	—
(60%Imax)	6007.17	—
(70%Imax)	7008.36	—
(80%Imax)	8009.55	—
(90%Imax)	9010.75	—



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

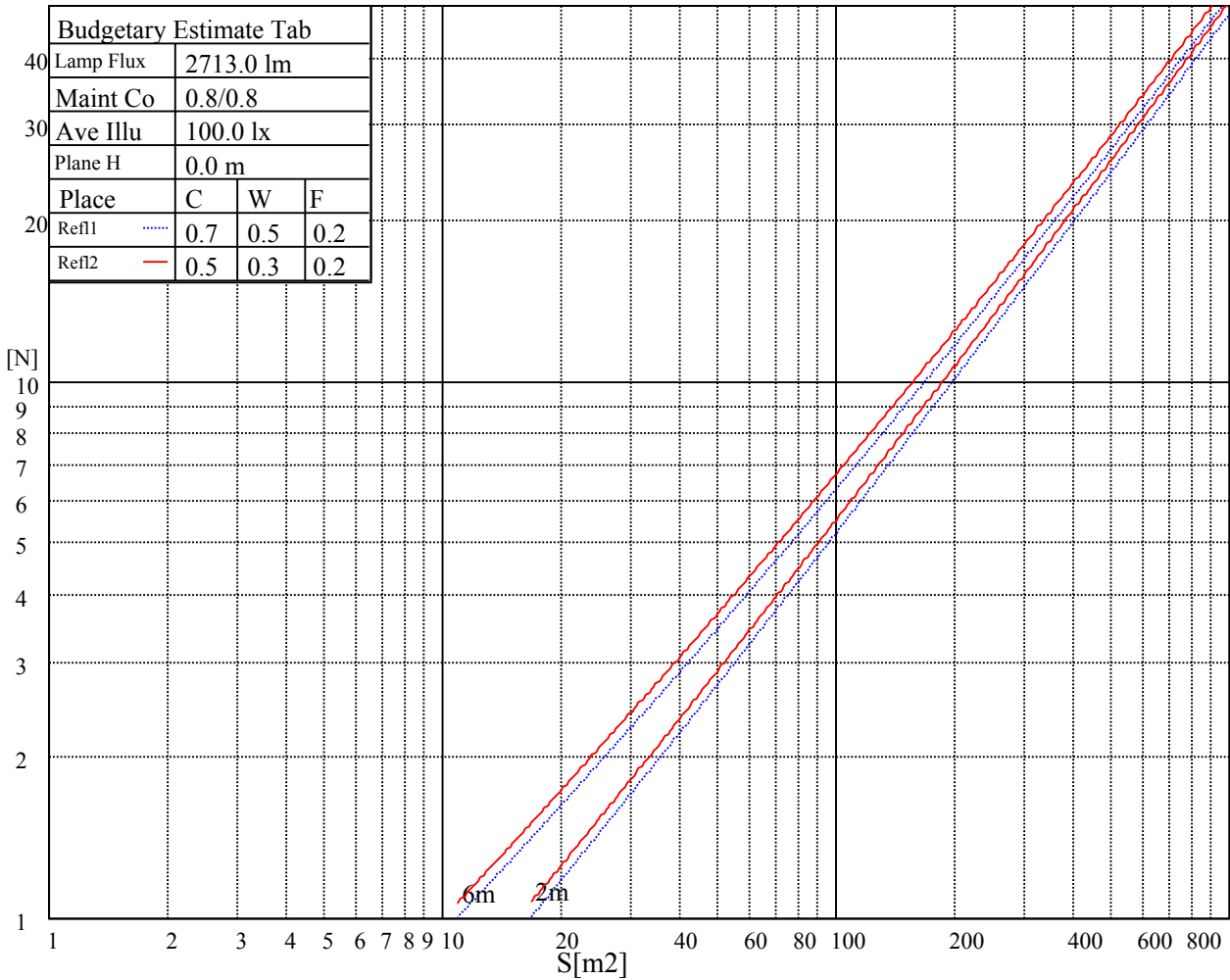
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

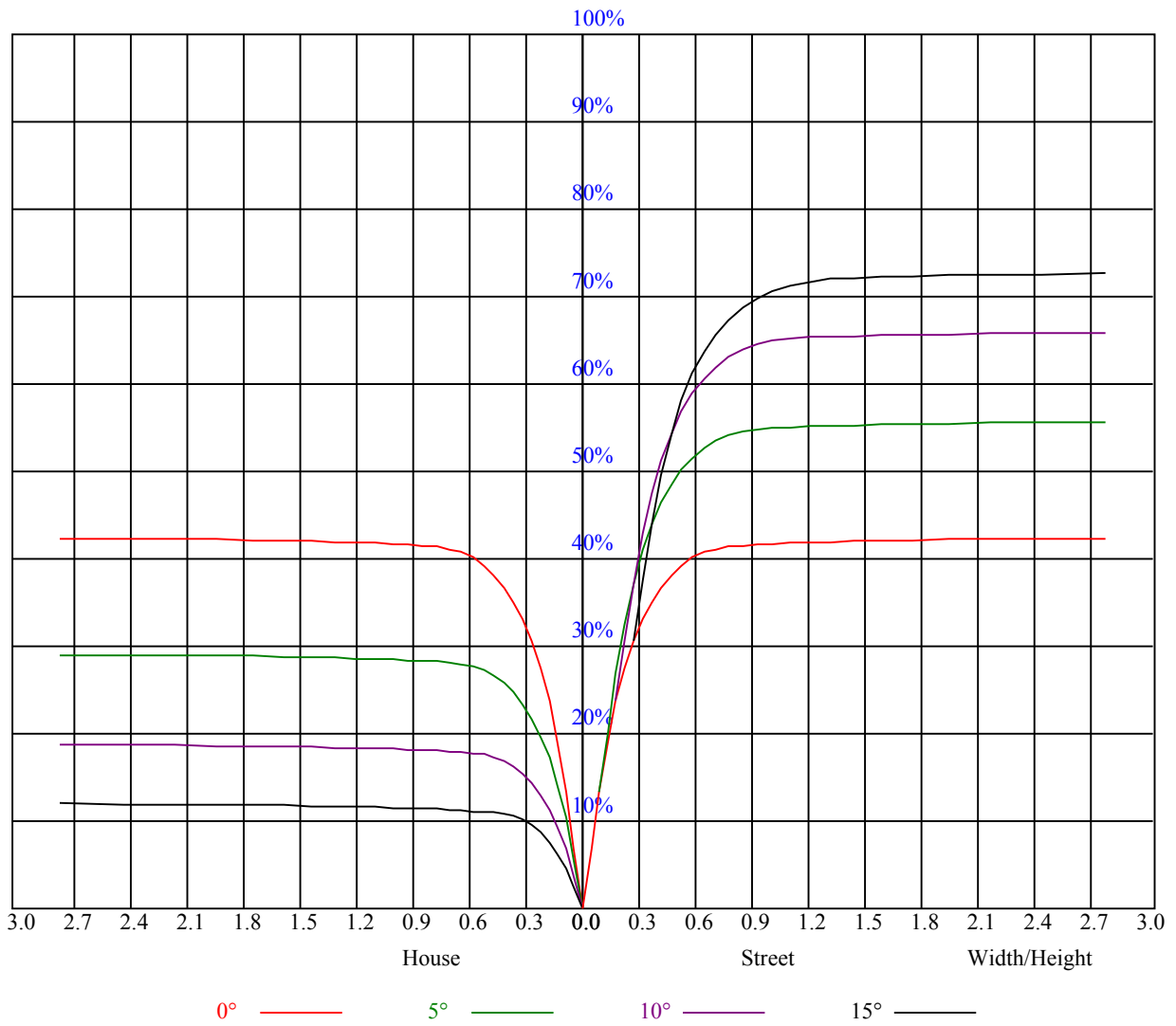


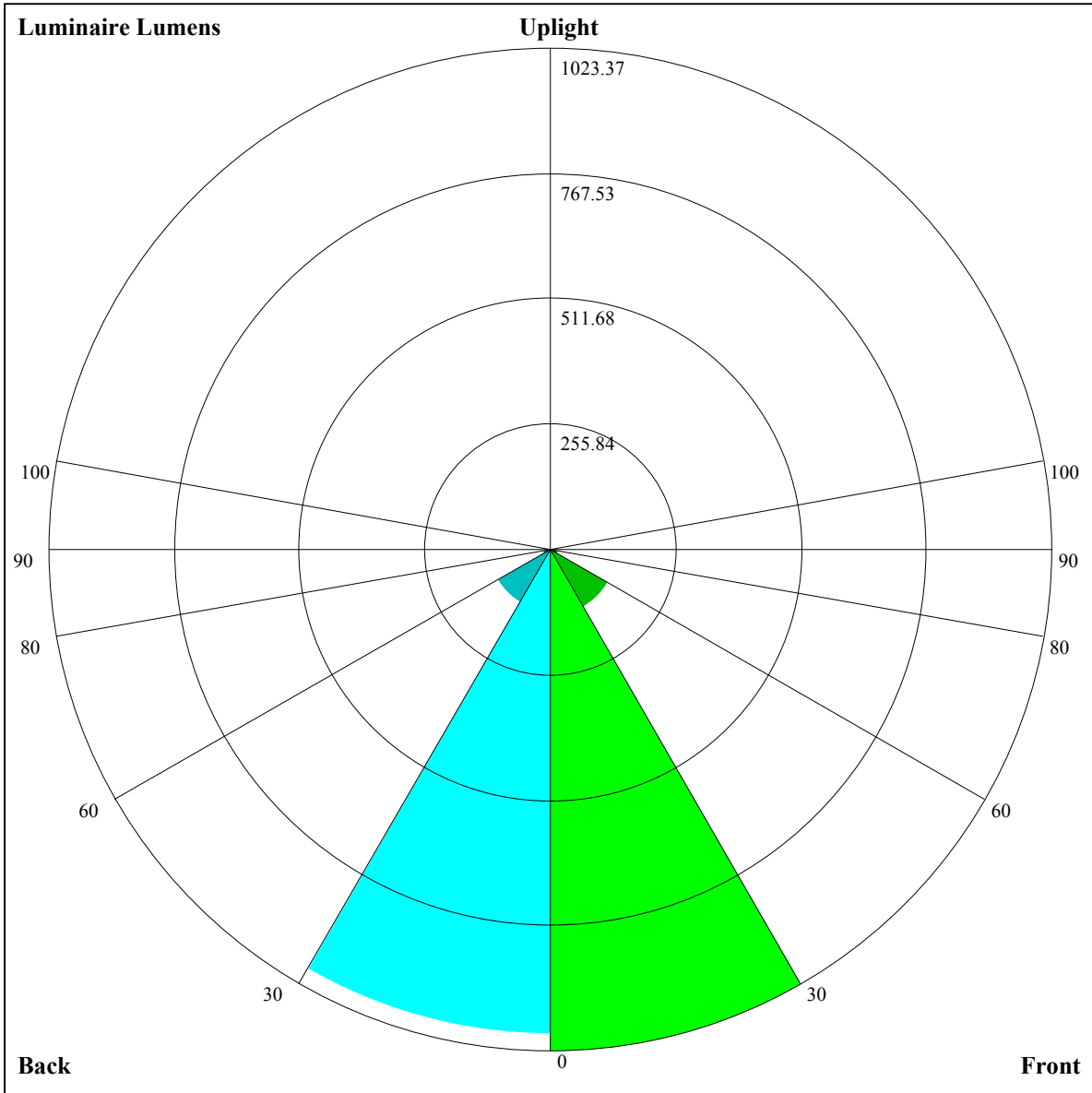
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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 RHOF=20 CU															
0	1.02	1.02	1.02	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.85
1	0.95	0.94	0.92	0.94	0.92	0.90	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.83	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	0.79	0.84	0.81	0.79	0.82	0.80	0.77	0.80	0.78	0.76	0.78	0.77	0.75	0.74
4	0.82	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.74	0.77	0.75	0.73	0.76	0.74	0.72	0.71
5	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.73	0.71	0.69	0.68
6	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.65
7	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.69	0.66	0.64	0.63
8	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.64	0.62	0.61
9	0.67	0.63	0.60	0.66	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.59
10	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.63	0.60	0.58	0.57





Luminaire Lumens:

FL=1023.37,FM=135.99,FH=16.58,FVH=6

BL=988.96,BM=126.52,BH=16.62,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	10049.54	9977.56	9850.57	9631.69	9184.58	8724.01	8183.84	7580.48	6751.21
45.0	9962.93	10028.47	9982.83	9855.25	9573.17	9222.62	8760.29	8082.02	7451.73
90.0	10012.09	9961.17	9752.83	9492.99	9016.62	8512.74	7952.68	7131.61	6435.78
135.0	10023.21	10005.65	9916.70	9747.57	9373.61	8958.68	8319.62	7696.35	7025.68
180.0	10049.54	9988.68	9857.00	9543.32	9181.65	8722.84	8014.71	7326.49	6609.59
225.0	9962.93	9824.23	9516.40	9148.30	8682.46	8116.54	7286.69	6567.45	5862.84
270.0	10012.09	10003.31	9892.12	9655.69	9315.67	8908.35	8397.45	7616.76	6939.07
315.0	10023.21	9889.19	9713.62	9425.11	9037.10	8547.27	7812.23	7160.29	6470.31
360.0	10049.54	9977.56	9850.57	9631.69	9184.58	8724.01	8183.84	7580.48	6751.21
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6048.94	5381.79	4613.39	4062.69	3473.37	3092.39	2763.49	2479.66	2188.80
45.0	6785.74	6095.18	5429.19	4654.35	4113.02	3621.43	3119.89	2782.22	2495.46
90.0	5763.35	5113.75	4370.52	3856.11	3414.26	3029.77	2635.33	2370.80	2142.57
135.0	6141.99	5483.03	4860.94	4152.82	3670.00	3253.32	2891.07	2587.92	2271.32
180.0	5751.65	5093.86	4481.13	3949.74	3387.93	3009.87	2689.75	2417.04	2132.62
225.0	5191.00	4448.94	3925.16	3473.95	3084.78	2683.32	2412.36	2131.45	1938.91
270.0	6239.73	5562.62	4763.20	4188.51	3688.73	3167.88	2821.43	2465.61	2222.74
315.0	5596.57	4958.08	4245.28	3750.77	3317.70	2865.32	2570.95	2318.72	2100.43
360.0	6048.94	5381.79	4613.39	4062.69	3473.37	3092.39	2763.49	2479.66	2188.80
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1993.33	1823.03	1679.07	1517.55	1406.94	1157.05	1157.05	1121.23	1047.61
45.0	2204.02	2009.72	1804.89	1663.85	1536.27	1423.33	1301.60	1217.33	1134.22
90.0	1904.97	1746.96	1604.75	1452.00	1277.60	1167.47	1148.56	1073.65	1001.67
135.0	2060.64	1884.48	1693.11	1561.44	1443.81	1313.30	1224.35	1127.20	1051.12
180.0	1941.25	1780.31	1601.23	1475.41	1365.97	1245.42	1165.83	1089.16	999.04
225.0	1772.12	1592.46	1468.97	1359.54	1160.68	1160.68	1086.70	1015.72	932.20
270.0	2016.16	1843.52	1661.51	1527.50	1409.87	1309.21	1206.21	1128.37	1055.22
315.0	1866.93	1713.60	1578.41	1454.93	1264.14	1154.59	1154.59	1080.68	997.34
360.0	1993.33	1823.03	1679.07	1517.55	1406.94	1157.05	1157.05	1121.23	1047.61
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	975.39	886.79	814.46	738.38	637.72	558.01	479.42	387.48	320.18
45.0	1058.15	984.99	892.53	818.20	740.37	640.29	557.19	479.36	389.82
90.0	913.01	840.44	763.78	687.29	588.39	510.02	434.82	365.18	286.23
135.0	979.14	908.91	815.86	737.44	657.27	577.68	478.19	405.62	339.49
180.0	929.98	857.41	780.16	676.58	593.48	513.30	437.22	350.61	303.21
225.0	861.98	787.95	708.65	606.70	525.59	450.27	362.20	300.04	228.65
270.0	971.53	900.72	827.57	729.83	645.56	549.58	471.75	396.26	331.88
315.0	929.22	858.17	765.01	685.18	586.45	506.40	431.54	361.73	284.89
360.0	975.39	886.79	814.46	738.38	637.72	558.01	479.42	387.48	320.18
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	259.02	205.00	149.23	114.24	87.90	68.59	52.55	44.01	37.04
45.0	323.69	308.47	236.66	149.52	114.94	83.57	66.13	53.78	45.18
90.0	229.47	181.60	132.67	102.47	75.85	61.10	50.33	42.72	36.34
135.0	307.89	307.89	160.88	115.99	89.66	70.75	54.37	45.24	38.92
180.0	303.21	170.53	133.02	97.03	75.79	60.40	47.46	40.56	35.64
225.0	179.72	138.82	106.16	76.49	59.99	48.69	41.26	35.23	32.01
270.0	302.62	302.62	156.72	120.50	86.73	67.30	54.19	45.06	37.75
315.0	229.00	180.31	139.40	99.84	76.84	60.63	47.40	40.67	35.99
360.0	259.02	205.00	149.23	114.24	87.90	68.59	52.55	44.01	37.04

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	33.24	30.55	28.09	26.63	25.52	24.46	23.88	23.53	23.41
45.0	38.04	34.18	31.37	28.97	27.39	26.28	25.22	24.70	24.23
90.0	32.95	30.49	28.68	26.98	26.04	25.28	24.70	24.46	24.29
135.0	33.65	30.90	28.85	27.21	26.10	25.05	24.40	24.11	23.94
180.0	32.25	29.73	27.45	26.04	25.05	24.11	23.70	23.29	23.06
225.0	29.67	27.97	26.34	25.40	24.52	24.11	23.76	23.53	23.47
270.0	33.77	31.08	28.62	27.15	25.87	25.05	24.46	24.11	23.88
315.0	32.01	29.79	27.74	26.45	25.52	24.81	24.23	23.94	23.76
360.0	33.24	30.55	28.09	26.63	25.52	24.46	23.88	23.53	23.41
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	23.23	23.29	23.35	23.47	23.47	23.35	23.00	22.30	21.48
45.0	24.11	23.99	24.05	24.17	24.29	24.23	24.11	23.64	22.82
90.0	24.29	24.35	24.40	24.46	24.35	24.05	23.47	22.59	21.59
135.0	23.88	23.99	24.05	24.17	24.17	24.05	23.70	23.12	22.24
180.0	23.00	23.00	23.06	23.06	22.94	22.59	22.12	21.65	20.89
225.0	23.53	23.53	23.58	23.47	23.29	22.71	22.24	21.42	20.48
270.0	23.70	23.76	23.76	23.82	23.70	23.58	23.12	22.53	21.71
315.0	23.70	23.76	23.82	23.88	23.76	23.47	22.82	21.95	21.01
360.0	23.23	23.29	23.35	23.47	23.47	23.35	23.00	22.30	21.48
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.25	19.08	17.85	16.85	15.74	15.16	14.69	14.22	13.93
45.0	21.95	20.89	19.43	18.20	17.15	16.09	15.51	14.92	14.51
90.0	20.60	19.02	17.91	16.91	16.09	15.39	14.92	14.46	14.22
135.0	21.19	20.19	18.84	17.73	16.39	15.80	15.22	14.69	14.28
180.0	19.72	18.55	17.44	16.39	15.51	14.92	14.57	14.16	13.87
225.0	19.37	17.91	16.85	15.86	15.27	14.75	14.40	14.10	13.87
270.0	20.60	19.43	18.26	16.91	16.04	15.39	14.92	14.40	14.16
315.0	19.96	18.38	17.26	16.27	15.51	14.81	14.40	14.05	13.69
360.0	20.25	19.08	17.85	16.85	15.74	15.16	14.69	14.22	13.93
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.58	13.34	13.17	12.99	12.82	12.76	12.70	12.52	12.17
45.0	14.22	13.99	13.69	13.87	15.04	16.85	18.55	17.79	16.21
90.0	13.99	14.86	16.39	17.85	17.91	16.97	16.09	15.39	14.57
135.0	13.99	13.69	13.40	13.23	12.99	12.82	12.70	12.64	12.58
180.0	13.64	13.40	13.23	13.11	12.93	12.87	12.87	12.76	12.64
225.0	13.81	14.92	17.03	19.31	20.48	19.25	16.91	13.81	11.70
270.0	13.87	13.58	13.34	13.75	13.64	12.93	12.58	12.29	12.00
315.0	13.40	13.17	12.93	12.76	12.52	12.29	12.17	12.00	11.70
360.0	13.58	13.34	13.17	12.99	12.82	12.76	12.70	12.52	12.17
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.76	11.47	11.29	11.12	10.94	10.48	10.30	10.18	10.01
45.0	14.28	11.94	11.41	11.18	11.00	10.71	10.36	10.24	10.07
90.0	13.40	11.70	11.12	10.89	10.65	10.36	10.18	10.01	9.89
135.0	12.41	12.17	12.00	11.76	11.06	10.42	10.30	10.12	9.95
180.0	12.41	12.11	12.00	11.82	10.59	10.36	10.18	10.07	9.95
225.0	11.53	11.29	11.12	10.94	10.42	10.24	10.07	9.95	9.89
270.0	11.70	11.47	11.24	11.00	10.77	10.48	10.18	10.07	9.89
315.0	11.59	11.41	11.12	10.83	10.65	10.30	10.12	10.01	9.83
360.0	11.76	11.47	11.29	11.12	10.94	10.48	10.30	10.18	10.01

Intensity data(cd)

C/γ(°)	90.0
0.0	9.95
45.0	9.89
90.0	9.89
135.0	9.83
180.0	9.89
225.0	9.89
270.0	9.83
315.0	9.83
360.0	9.95