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NT

Client:

LumCAT: 2-2682-L

Luminaire: 92.70.411.00

Report No: 2024403-B011

Ballast type: AC

Test No: 2024403-C011

Voltage(V): 34.400

LampCAT: Fortimo\_SLM\_C\_1208

Current(A): 0.578

Lamp flux(lm): 3438.0

Power (W): 19.883

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 2972.36, Efficiency(%): 86.46% , Luminous Efficacy(lm/W): 149.49

Central intensity(cd): 11847.910, Maximum intensity(cd): 11847.910

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

Beam Angle(50%Imax): [C0/180]Total=20.4

[C90/270]Total=20.4

Field angle(10%Imax): [C0/180]Total=55.2

[C90/270]Total=55.2

Maximum s/h(1/2): C0\_180=0.34 C90\_270=0.34

Maximum s/h(1/4): C0\_180=0.40 C90\_270=0.40

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 86.46%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.005%

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2024/4/03  
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	11847.909	0.000	0	0.00%	0.00%
1.0	11837.083	11.333	11.333	0.33%	0.38%
2.0	11663.271	33.730	45.063	0.98%	1.52%
3.0	11269.927	54.849	99.911	1.60%	3.36%
4.0	10663.195	73.417	173.329	2.14%	5.83%
5.0	9928.298	88.584	261.912	2.58%	8.81%
6.0	9152.656	100.275	362.188	2.92%	12.19%
7.0	8299.983	108.328	470.516	3.15%	15.83%
8.0	7479.717	112.932	583.448	3.28%	19.63%
9.0	6713.365	115.027	698.475	3.35%	23.50%
10.0	6039.698	115.411	813.886	3.36%	27.38%
11.0	5422.358	114.529	928.415	3.33%	31.23%
12.0	4890.023	112.729	1041.145	3.28%	35.03%
13.0	4400.848	110.259	1151.404	3.21%	38.74%
14.0	3965.368	107.087	1258.491	3.11%	42.34%
15.0	3599.309	103.851	1362.342	3.02%	45.83%
16.0	3249.637	100.356	1462.698	2.92%	49.21%
17.0	2978.239	96.985	1559.683	2.82%	52.47%
18.0	2792.357	95.145	1654.827	2.77%	55.67%
19.0	2552.795	92.995	1747.822	2.70%	58.80%
20.0	2340.512	89.561	1837.383	2.61%	61.82%
21.0	2107.307	85.407	1922.79	2.48%	64.69%
22.0	1943.664	81.406	2004.196	2.37%	67.43%
23.0	1795.383	78.455	2082.652	2.28%	70.07%
24.0	1663.926	75.633	2158.285	2.20%	72.61%
25.0	1506.128	72.080	2230.365	2.10%	75.04%
26.0	1344.320	67.285	2297.65	1.96%	77.30%
27.0	1240.743	63.244	2360.894	1.84%	79.43%
28.0	1141.737	60.319	2421.213	1.75%	81.46%
29.0	1023.939	56.660	2477.874	1.65%	83.36%
30.0	894.612	51.800	2529.674	1.51%	85.11%
31.0	767.442	46.253	2575.927	1.35%	86.66%
32.0	653.353	40.704	2616.631	1.18%	88.03%
33.0	541.838	35.211	2651.841	1.02%	89.22%
34.0	456.856	30.223	2682.065	0.88%	90.23%
35.0	386.505	26.192	2708.257	0.76%	91.11%
36.0	331.610	22.865	2731.121	0.67%	91.88%
37.0	287.367	20.188	2751.309	0.59%	92.56%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	263.541	18.389	2769.698	0.53%	93.18%
39.0	214.697	16.324	2786.021	0.47%	93.73%
40.0	174.565	13.576	2799.597	0.39%	94.19%
41.0	148.201	11.494	2811.091	0.33%	94.57%
42.0	127.411	10.013	2821.104	0.29%	94.91%
43.0	110.103	8.798	2829.903	0.26%	95.21%
44.0	95.501	7.760	2837.663	0.23%	95.47%
45.0	82.831	6.854	2844.516	0.20%	95.70%
46.0	73.607	6.118	2850.634	0.18%	95.90%
47.0	65.428	5.530	2856.164	0.16%	96.09%
48.0	60.278	5.082	2861.246	0.15%	96.26%
49.0	56.379	4.791	2866.036	0.14%	96.42%
50.0	53.394	4.577	2870.613	0.13%	96.58%
51.0	51.580	4.441	2875.054	0.13%	96.73%
52.0	50.315	4.372	2879.427	0.13%	96.87%
53.0	49.313	4.334	2883.76	0.13%	97.02%
54.0	48.596	4.315	2888.076	0.13%	97.16%
55.0	48.171	4.320	2892.395	0.13%	97.31%
56.0	47.432	4.320	2896.715	0.13%	97.46%
57.0	46.101	4.277	2900.992	0.12%	97.60%
58.0	44.462	4.188	2905.18	0.12%	97.74%
59.0	42.165	4.050	2909.23	0.12%	97.88%
60.0	39.071	3.838	2913.068	0.11%	98.01%
61.0	36.021	3.584	2916.651	0.10%	98.13%
62.0	33.043	3.328	2919.979	0.10%	98.24%
63.0	29.810	3.057	2923.036	0.09%	98.34%
64.0	26.964	2.786	2925.822	0.08%	98.43%
65.0	24.872	2.565	2928.387	0.07%	98.52%
66.0	23.182	2.398	2930.785	0.07%	98.60%
67.0	21.968	2.270	2933.055	0.07%	98.68%
68.0	20.966	2.175	2935.23	0.06%	98.75%
69.0	20.205	2.100	2937.33	0.06%	98.82%
70.0	19.510	2.040	2939.37	0.06%	98.89%
71.0	18.917	1.986	2941.356	0.06%	98.96%
72.0	18.383	1.940	2943.296	0.06%	99.02%
73.0	17.915	1.898	2945.194	0.06%	99.09%
74.0	17.491	1.861	2947.055	0.05%	99.15%
75.0	17.111	1.828	2948.884	0.05%	99.21%

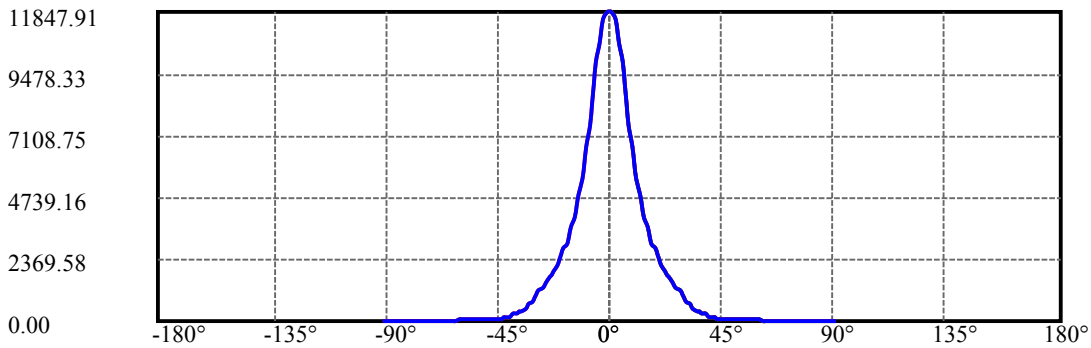
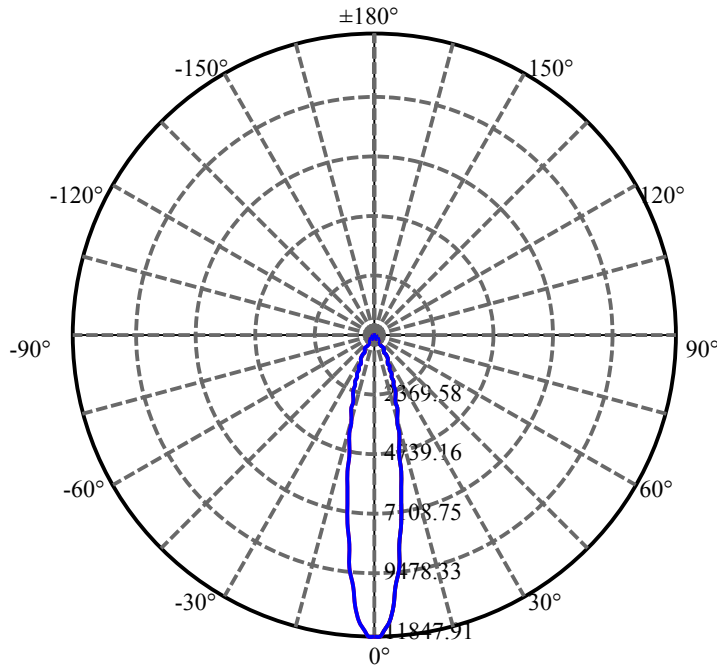
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	16.759	1.798	2950.681	0.05%	99.27%
77.0	16.408	1.768	2952.45	0.05%	99.33%
78.0	16.035	1.737	2954.187	0.05%	99.39%
79.0	15.626	1.701	2955.888	0.05%	99.45%
80.0	15.216	1.663	2957.55	0.05%	99.50%
81.0	14.857	1.626	2959.177	0.05%	99.56%
82.0	14.440	1.589	2960.765	0.05%	99.61%
83.0	14.082	1.551	2962.316	0.05%	99.66%
84.0	13.738	1.516	2963.832	0.04%	99.71%
85.0	13.438	1.483	2965.315	0.04%	99.76%
86.0	13.182	1.455	2966.77	0.04%	99.81%
87.0	12.941	1.430	2968.2	0.04%	99.86%
88.0	12.692	1.404	2969.604	0.04%	99.91%
89.0	12.531	1.383	2970.986	0.04%	99.95%
90.0	12.465	1.371	2972.357	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2529.67	73.58%	85.11%
0-40	2799.60	81.43%	94.19%
0-60	2913.07	84.73%	98.01%
0-90	2970.99	86.42%	99.95%
0-120	2970.99	86.42%	99.95%
0-180	2972.36	86.46%	100.00%
60-90	57.92	1.68%	1.95%
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%
0-27.28	2377.89	69.16%	80.00%

ZONAL LUMEN SUMMARY

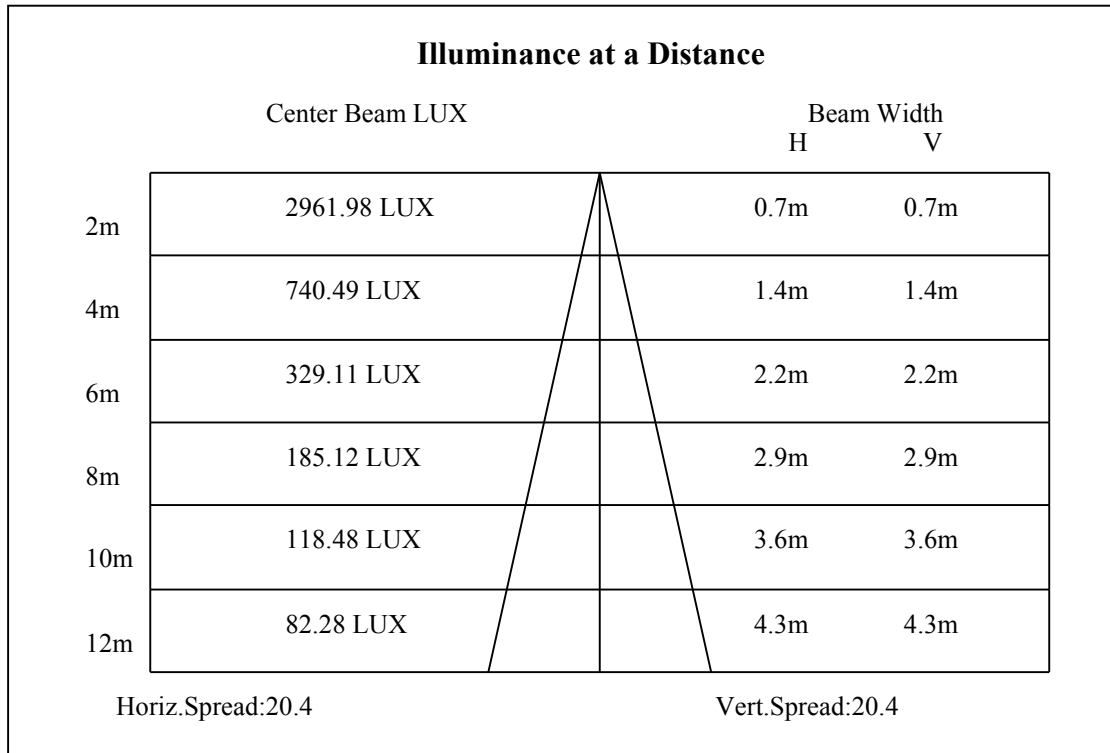
0-10	813.89
10-20	1023.50
20-30	692.29
30-40	269.92
40-50	71.02
50-60	42.45
60-70	26.30
70-80	18.18
80-90	13.44
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

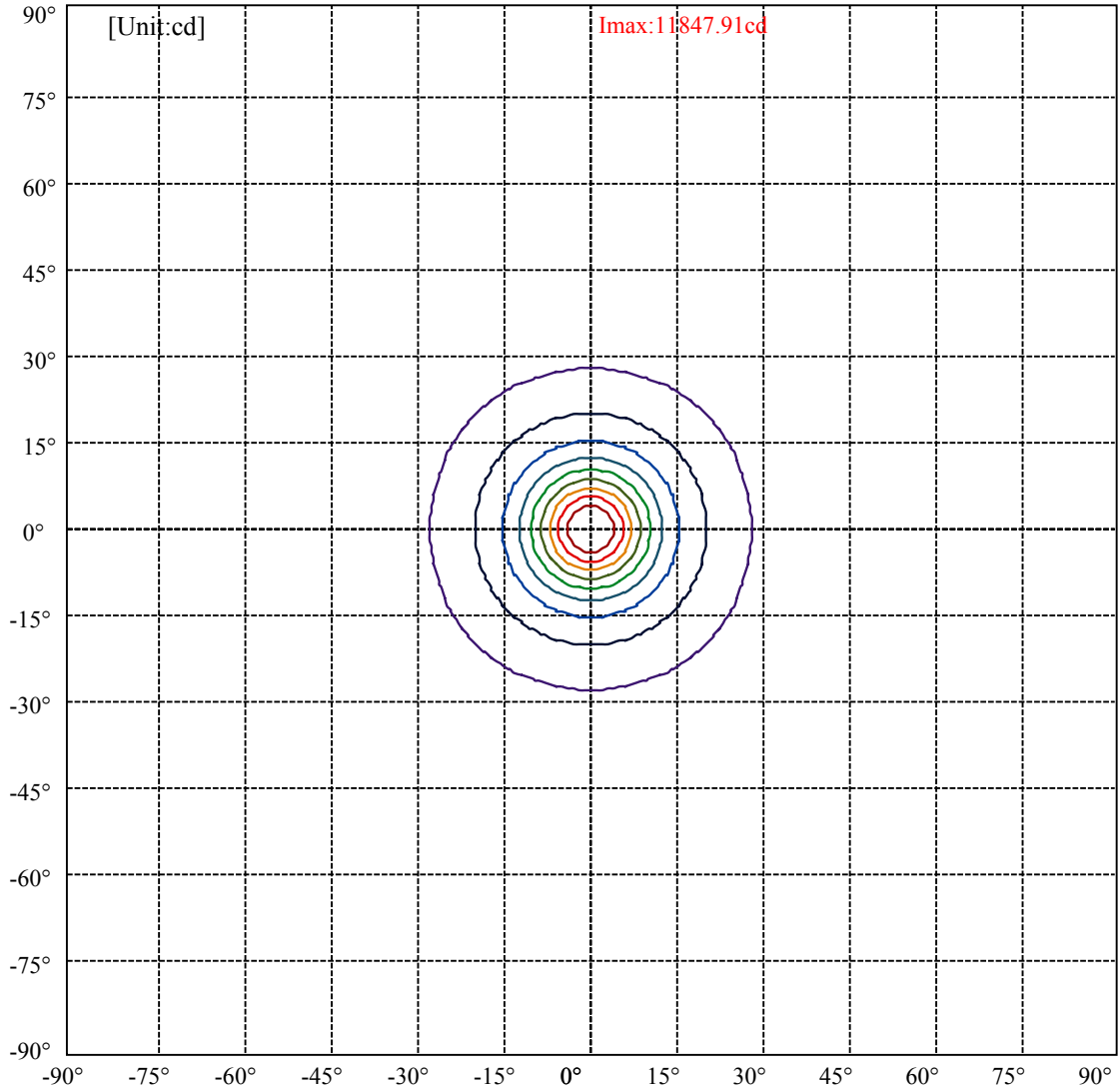


C0(Max): —————  
C0/C180: —————  
C90/C270: —————

Field angle(10%Imax):C0/180Left:27.6 Right:27.6  
:C90/270Left:27.6 Right:27.6

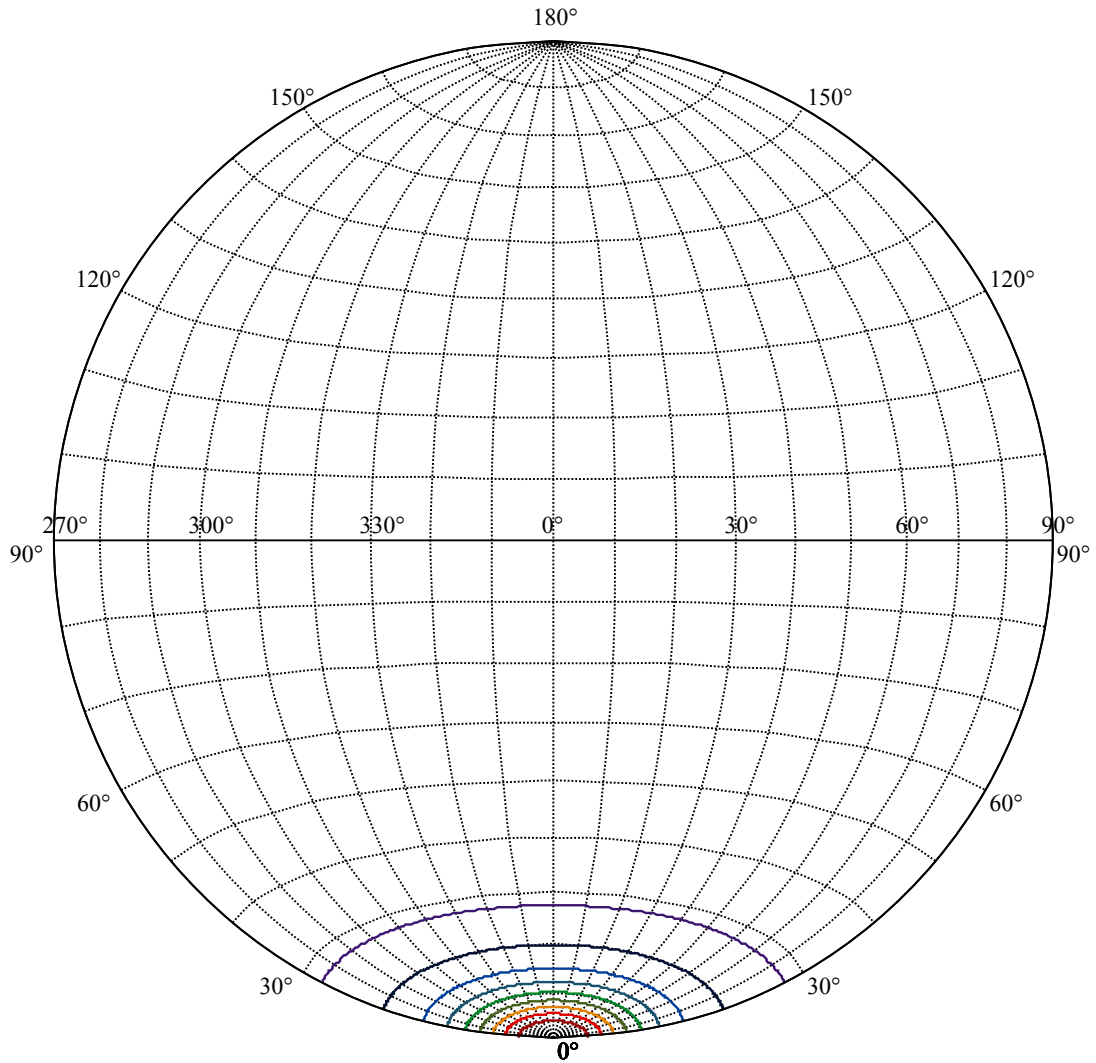
Beam Angle(50%Imax):C0/180Left:10.2 Right:10.2  
:C90/270Left:10.2 Right:10.2





(10%Imax) 1184.79	—
(20%Imax) 2369.58	—
(30%Imax) 3554.37	—
(40%Imax) 4739.16	—
(50%Imax) 5923.96	—
(60%Imax) 7108.75	—
(70%Imax) 8293.54	—
(80%Imax) 9478.33	—
(90%Imax) 10663.1	—





House

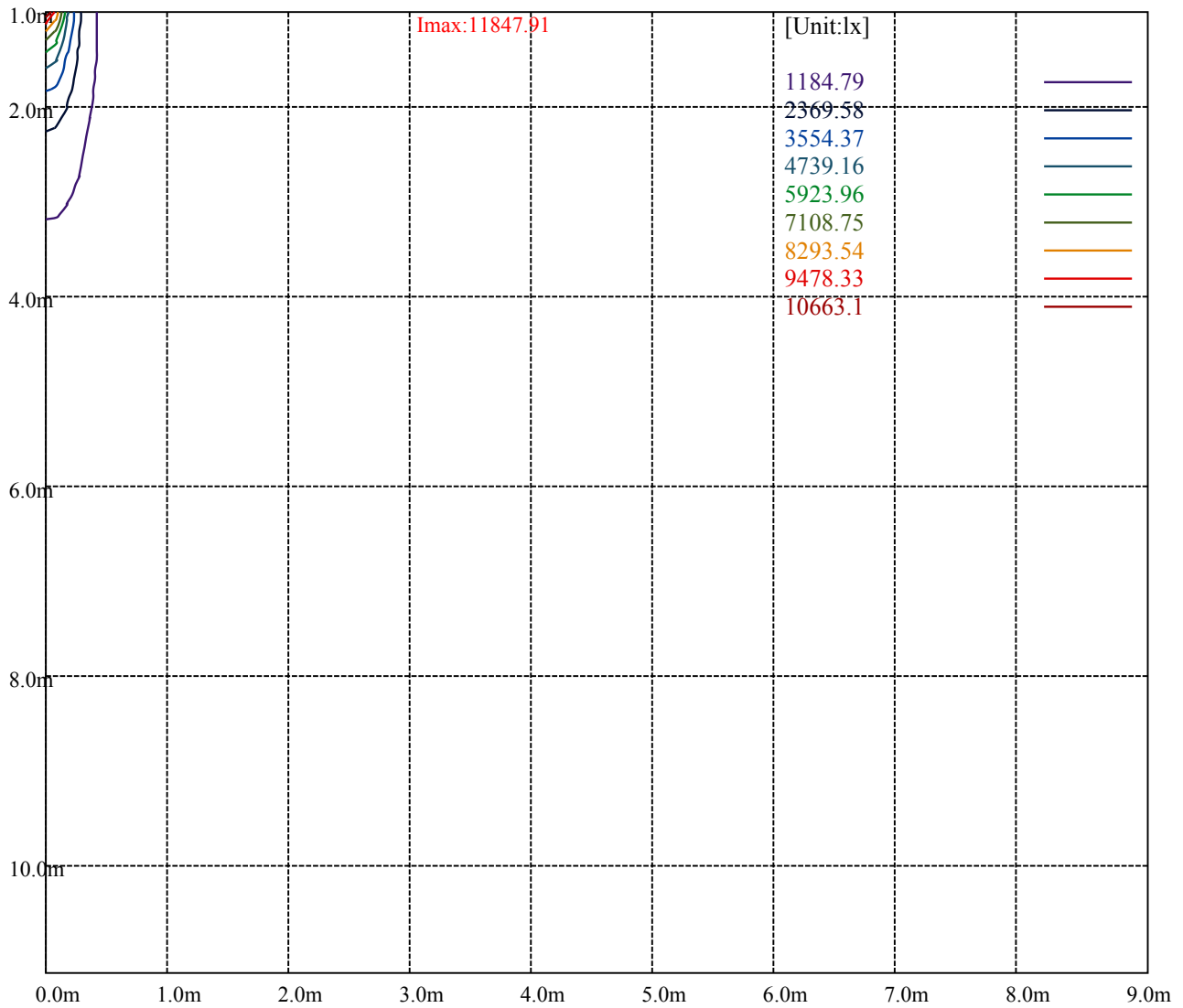
[Unit:cd]

Road

**Imax:11847.91**

(10%Imax)	1184.79	—
(20%Imax)	2369.58	—
(30%Imax)	3554.37	—
(40%Imax)	4739.16	—
(50%Imax)	5923.96	—
(60%Imax)	7108.75	—
(70%Imax)	8293.54	—
(80%Imax)	9478.33	—
(90%Imax)	10663.1	—





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

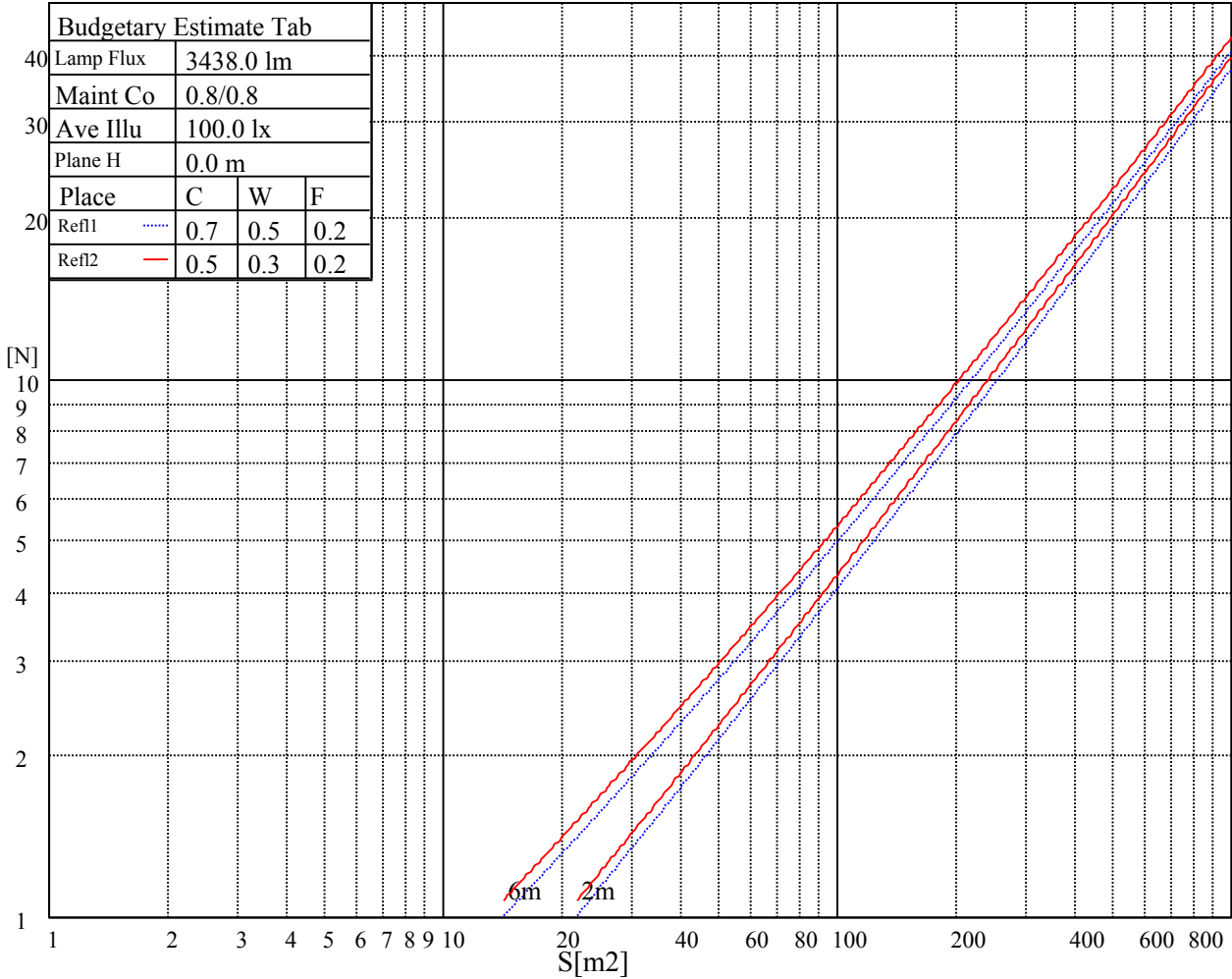
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

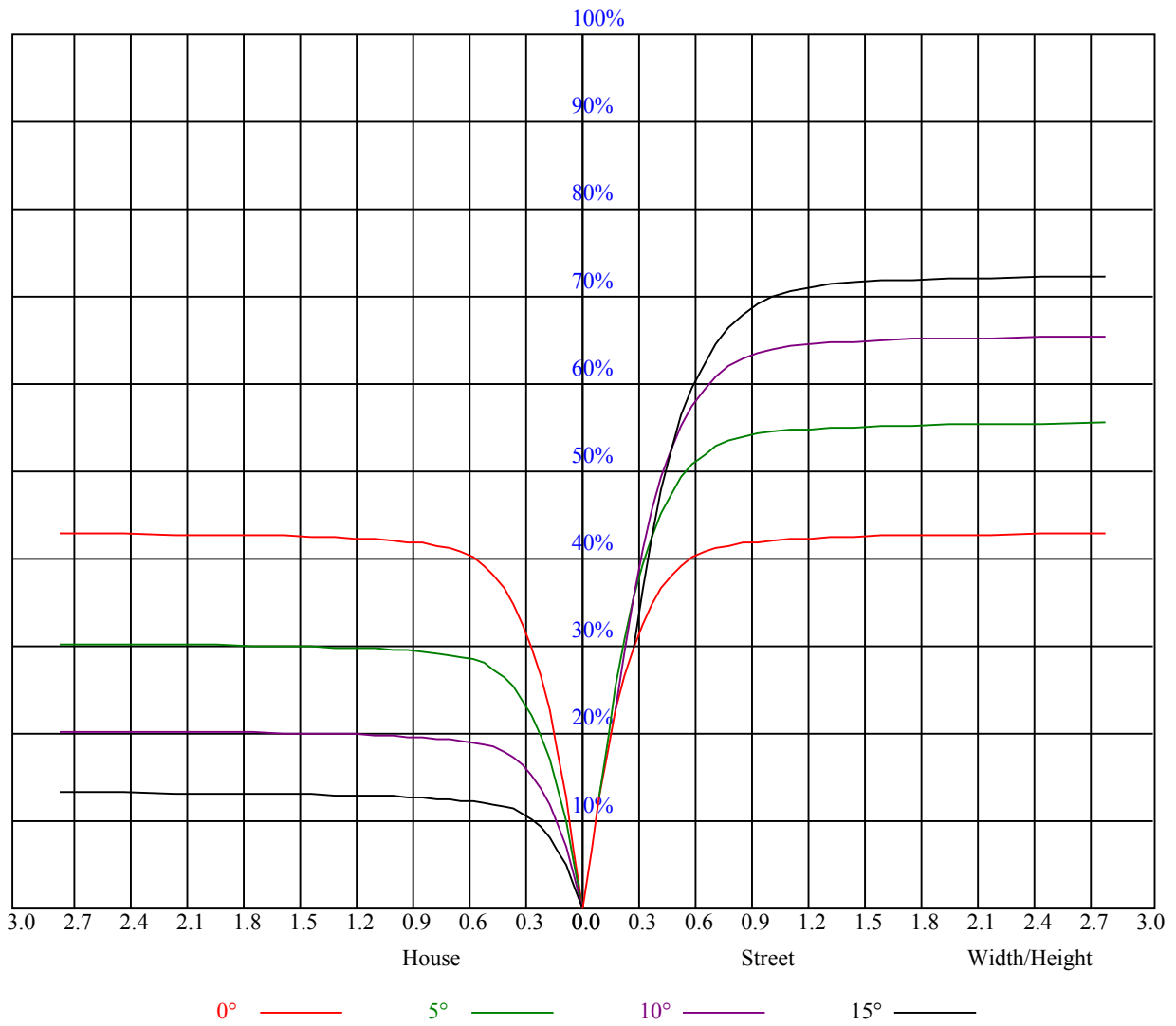


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字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

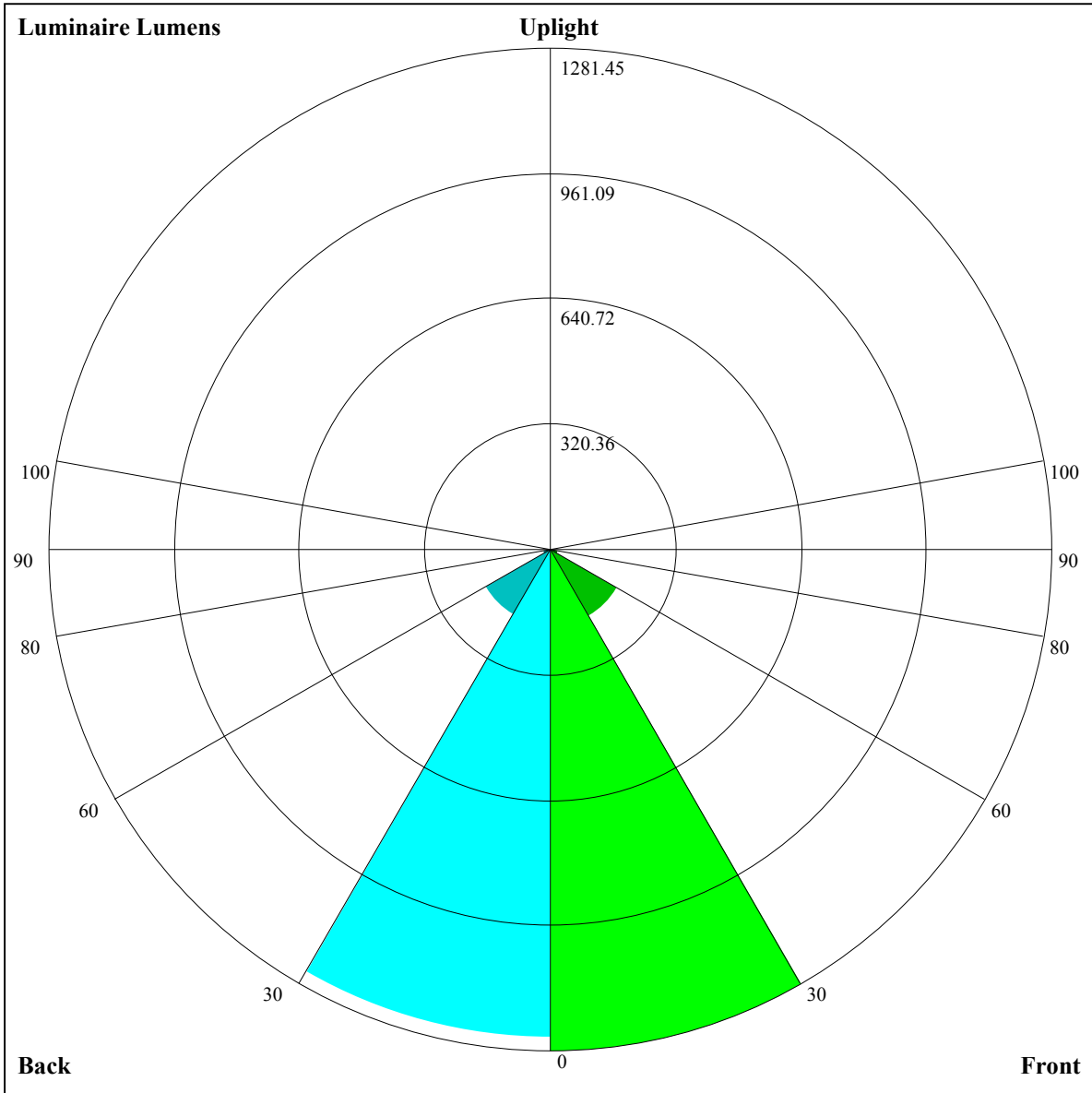
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	1.03	1.03	1.03	1.01	1.01	1.01	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	0.95	0.93	0.91	0.91	0.90	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	0.82	0.84	0.82	0.81	0.82	0.80	0.79	0.78
3	0.86	0.82	0.79	0.85	0.81	0.79	0.83	0.80	0.77	0.81	0.78	0.76	0.79	0.77	0.75	0.74
4	0.82	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.72	0.76	0.74	0.72	0.70
5	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.74	0.71	0.69	0.73	0.71	0.68	0.67
6	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.70	0.68	0.66	0.65
7	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
8	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.66	0.63	0.61	0.60
9	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.64	0.61	0.58	0.57
10	0.64	0.60	0.57	0.63	0.59	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.62	0.58	0.56	0.55







Luminaire Lumens:

FL=1281.45,FM=195.15,FH=22.46,FVH=7.44

BL=1248.4,BM=191.06,BH=22.1,BVH=7.39

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	12065.00	11678.22	11678.22	11279.69	10601.99	9942.45	9215.60	8243.54	7507.32
45.0	11631.41	12076.70	12047.44	11825.06	11374.43	10859.44	10198.13	9302.74	8541.94
90.0	12082.56	11672.37	11672.37	11353.42	10780.49	9906.16	9144.78	8345.37	7575.21
135.0	11612.68	12059.15	11977.21	11637.78	11157.90	10402.96	9659.72	8863.82	7868.94
180.0	12065.00	12000.62	11760.68	11356.88	10672.16	9975.75	9191.54	8366.38	7412.46
225.0	11631.41	11631.41	11159.13	10589.12	9882.17	8900.75	8115.37	7352.83	6491.37
270.0	12082.56	11965.51	11708.01	11315.91	10648.75	9975.75	9226.66	8220.07	7465.13
315.0	11612.68	11612.68	11303.09	10801.56	10187.66	9463.15	8469.43	7705.13	6975.36
360.0	12065.00	11678.22	11678.22	11279.69	10601.99	9942.45	9215.60	8243.54	7507.32
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6641.78	6014.42	5452.01	4939.36	4484.05	3986.61	3636.06	3308.34	3020.40
45.0	7763.59	6874.05	6224.45	5656.78	5024.74	4550.71	4135.20	3672.87	3339.29
90.0	6671.62	6041.34	5468.99	4846.31	4391.59	3888.29	3540.08	3231.09	2953.69
135.0	7119.85	6440.99	5703.60	5182.75	4702.87	4269.80	3877.70	3438.78	3128.61
180.0	6739.45	6095.70	5387.58	4872.58	4316.62	3924.52	3555.83	3245.66	2982.31
225.0	5871.04	5323.85	4718.14	4284.49	3895.32	3462.83	3159.69	2888.73	2648.79
270.0	6604.85	5966.95	5393.43	4767.24	4334.18	3942.08	3596.79	3198.84	2988.16
315.0	6294.74	5560.28	5030.65	4570.67	4057.42	3698.10	3293.12	3012.80	2764.66
360.0	6641.78	6014.42	5452.01	4939.36	4484.05	3986.61	3636.06	3308.34	3020.40
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2717.26	2501.90	2267.81	2099.26	1943.01	1770.95	1644.54	1526.91	1302.18
45.0	3058.39	2988.16	2988.16	2354.42	2181.19	2016.74	1834.74	1705.40	1574.31
90.0	2663.42	2463.86	2283.02	2113.31	1923.69	1788.51	1659.17	1536.27	1298.67
135.0	2994.01	2994.01	2407.09	2230.94	2036.06	1892.09	1761.59	1604.16	1482.43
180.0	2982.31	2469.71	2278.92	2070.58	1921.35	1790.26	1665.02	1512.28	1394.65
225.0	2391.87	2214.55	2054.20	1907.31	1747.54	1625.23	1508.77	1162.84	1162.84
270.0	2988.16	2476.73	2298.82	2092.24	1945.35	1786.75	1663.27	1545.05	1398.75
315.0	2543.45	2313.45	2146.08	1990.41	1851.13	1692.53	1574.31	1456.10	1140.72
360.0	2717.26	2501.90	2267.81	2099.26	1943.01	1770.95	1644.54	1526.91	1302.18
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1157.87	1157.87	1045.21	930.86	785.78	674.41	570.42	459.87	390.23
45.0	1416.89	1296.92	1176.36	1028.30	910.67	792.45	654.34	553.68	469.41
90.0	1145.40	1116.78	1000.44	882.87	739.78	631.57	535.71	455.36	379.40
135.0	1365.39	1214.99	1098.53	980.31	862.09	745.64	608.11	513.30	436.05
180.0	1280.53	1137.15	1020.11	901.89	753.83	642.64	520.91	443.07	384.55
225.0	1135.69	991.08	871.11	726.79	615.95	518.28	440.56	380.34	319.36
270.0	1283.46	1139.49	1017.18	892.53	773.14	656.10	529.69	446.59	381.04
315.0	1140.72	1079.62	962.58	813.35	698.29	565.74	474.97	402.63	332.00
360.0	1157.87	1157.87	1045.21	930.86	785.78	674.41	570.42	459.87	390.23
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	332.70	272.42	231.81	197.40	162.69	139.93	121.96	103.76	92.11
45.0	401.52	333.64	299.11	299.11	210.45	175.86	152.33	132.61	111.66
90.0	329.36	286.53	248.31	207.35	179.66	154.67	127.87	110.26	95.74
135.0	361.73	311.98	300.86	249.13	188.15	156.31	134.84	116.69	100.95
180.0	335.39	303.21	303.21	212.26	184.52	154.38	133.31	115.17	99.66
225.0	279.04	242.11	210.86	176.74	153.62	129.16	111.90	97.15	82.81
270.0	328.37	304.38	304.38	201.61	167.73	145.14	122.55	107.33	94.05
315.0	284.77	244.68	209.80	173.99	149.70	130.15	114.53	97.85	87.02
360.0	332.70	272.42	231.81	197.40	162.69	139.93	121.96	103.76	92.11

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	82.22	73.80	64.96	59.63	56.30	53.78	51.50	50.45	49.51
45.0	97.26	85.09	73.45	66.54	60.22	56.24	53.55	51.32	50.33
90.0	81.46	72.57	63.67	58.82	55.54	53.02	51.32	49.86	48.81
135.0	84.68	74.73	67.42	61.51	56.30	53.37	50.86	49.45	48.87
180.0	84.16	74.67	65.31	60.28	56.77	52.90	51.38	50.45	49.33
225.0	73.86	66.66	60.57	57.12	53.78	52.09	51.03	49.51	48.52
270.0	80.70	72.10	64.84	59.81	56.59	52.90	51.09	50.33	49.22
315.0	78.30	69.23	63.20	58.52	55.54	52.85	51.91	51.15	49.92
360.0	82.22	73.80	64.96	59.63	56.30	53.78	51.50	50.45	49.51
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	48.87	48.69	48.05	46.35	45.00	42.84	39.03	36.05	33.59
45.0	49.74	48.81	48.28	47.75	46.47	44.95	42.72	39.80	36.52
90.0	48.05	47.87	47.17	45.94	44.42	42.08	39.21	35.52	33.18
135.0	47.70	46.94	46.99	46.29	44.54	43.37	41.08	38.16	34.65
180.0	48.40	48.28	47.64	46.35	44.71	42.43	39.56	35.99	33.36
225.0	48.40	47.46	45.88	44.01	41.20	38.27	34.70	31.89	28.68
270.0	48.16	48.11	47.58	45.88	44.54	41.61	38.45	35.52	32.19
315.0	49.45	49.22	47.87	46.23	44.83	41.79	37.81	35.23	32.19
360.0	48.87	48.69	48.05	46.35	45.00	42.84	39.03	36.05	33.59
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	30.49	26.92	25.05	23.41	22.18	21.01	20.31	19.49	18.90
45.0	33.53	30.49	27.39	24.99	23.47	22.24	21.30	20.42	19.78
90.0	30.14	26.69	24.87	23.29	22.06	21.01	20.19	19.55	18.96
135.0	32.19	29.09	26.39	24.17	22.71	21.59	20.60	19.84	19.25
180.0	29.32	26.74	24.87	23.29	21.83	20.95	20.25	19.61	18.90
225.0	26.04	23.94	22.53	21.54	20.72	19.84	19.25	18.73	18.14
270.0	28.85	26.04	24.23	22.41	21.42	20.66	19.96	19.25	18.73
315.0	27.92	25.81	23.64	22.36	21.36	20.42	19.78	19.20	18.67
360.0	30.49	26.92	25.05	23.41	22.18	21.01	20.31	19.49	18.90
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	18.43	17.85	17.50	17.15	16.74	16.44	16.04	15.68	15.22
45.0	19.14	18.61	18.02	17.67	17.21	16.91	16.56	16.15	15.74
90.0	18.32	17.91	17.50	17.09	16.80	16.44	16.04	15.63	15.22
135.0	18.55	18.08	17.62	17.21	16.91	16.68	16.27	15.92	15.57
180.0	18.38	17.97	17.56	17.03	16.74	16.33	15.98	15.57	15.10
225.0	17.79	17.38	16.97	16.68	16.33	15.86	15.51	15.10	14.63
270.0	18.26	17.79	17.44	17.09	16.74	16.39	16.04	15.57	15.22
315.0	18.20	17.73	17.32	16.97	16.62	16.21	15.86	15.39	15.04
360.0	18.43	17.85	17.50	17.15	16.74	16.44	16.04	15.68	15.22
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.86	14.46	14.05	13.75	13.46	13.23	12.99	12.70	12.52
45.0	15.39	14.92	14.51	14.16	13.81	13.46	13.28	13.05	12.76
90.0	14.86	14.57	14.16	13.81	13.52	13.28	13.05	12.76	12.58
135.0	15.22	14.75	14.34	13.93	13.64	13.34	13.05	12.82	12.64
180.0	14.69	14.28	13.93	13.64	13.34	13.05	12.82	12.58	12.41
225.0	14.34	13.93	13.69	13.34	13.05	12.87	12.64	12.47	12.47
270.0	14.81	14.40	14.05	13.69	13.40	13.11	12.87	12.64	12.41
315.0	14.69	14.22	13.93	13.58	13.28	13.11	12.82	12.52	12.47
360.0	14.86	14.46	14.05	13.75	13.46	13.23	12.99	12.70	12.52

Intensity data(cd)

C/γ(°)	90.0
0.0	12.47
45.0	12.52
90.0	12.47
135.0	12.47
180.0	12.41
225.0	12.47
270.0	12.47
315.0	12.47
360.0	12.47