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NT

Client:

LumCAT: 2-2687-L

Luminaire: 92.70.412.00

Report No: 2024320-B010

Ballast type: AC

Test No: 2024320-C010

Voltage(V): 35.170

LampCAT: Fortimo\_SLM\_C\_1205

Current(A): 0.451

Lamp flux(lm): 2717.0

Power (W): 15.861

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 2255.26, Efficiency(%): 83.01% , Luminous Efficacy(lm/W): 142.19

Central intensity(cd): 8916.986, Maximum intensity(cd): 8916.986

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

Beam Angle(50%Imax): [C0/180]Total=22.4

[C90/270]Total=22.4

Field angle(10%Imax): [C0/180]Total=54.8

[C90/270]Total=54.8

Maximum s/h(1/2): C0\_180=0.38 C90\_270=0.38

Maximum s/h(1/4): C0\_180=0.42 C90\_270=0.42

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 83.01%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.040%

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2024/3/20  
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	8916.986	0.000	0	0.00%	0.00%
1.0	8848.295	8.500	8.5	0.31%	0.38%
2.0	8652.683	25.119	33.619	0.92%	1.49%
3.0	8326.713	40.609	74.229	1.49%	3.29%
4.0	7925.102	54.400	128.629	2.00%	5.70%
5.0	7469.797	66.228	194.857	2.44%	8.64%
6.0	6967.016	75.869	270.726	2.79%	12.00%
7.0	6464.454	83.369	354.095	3.07%	15.70%
8.0	5974.328	89.022	443.117	3.28%	19.65%
9.0	5484.568	92.868	535.985	3.42%	23.77%
10.0	4990.345	94.794	630.779	3.49%	27.97%
11.0	4524.726	95.075	725.854	3.50%	32.18%
12.0	4088.879	94.159	820.013	3.47%	36.36%
13.0	3678.344	92.177	912.191	3.39%	40.45%
14.0	3297.362	89.288	1001.479	3.29%	44.41%
15.0	2979.293	86.169	1087.648	3.17%	48.23%
16.0	2693.996	83.130	1170.777	3.06%	51.91%
17.0	2441.032	79.966	1250.744	2.94%	55.46%
18.0	2219.524	76.842	1327.586	2.83%	58.87%
19.0	2031.740	73.963	1401.549	2.72%	62.15%
20.0	1839.494	70.854	1472.404	2.61%	65.29%
21.0	1688.579	67.746	1540.15	2.49%	68.29%
22.0	1543.151	64.943	1605.093	2.39%	71.17%
23.0	1364.576	61.012	1666.105	2.25%	73.88%
24.0	1240.311	56.952	1723.057	2.10%	76.40%
25.0	1167.356	54.745	1777.802	2.01%	78.83%
26.0	1053.127	52.415	1830.217	1.93%	81.15%
27.0	937.801	48.708	1878.925	1.79%	83.31%
28.0	821.319	44.537	1923.462	1.64%	85.29%
29.0	710.961	40.089	1963.551	1.48%	87.07%
30.0	610.529	35.680	1999.231	1.31%	88.65%
31.0	512.606	31.255	2030.486	1.15%	90.03%
32.0	430.374	27.015	2057.502	0.99%	91.23%
33.0	352.444	23.062	2080.564	0.85%	92.25%
34.0	291.164	19.477	2100.041	0.72%	93.12%
35.0	255.385	16.974	2117.015	0.62%	93.87%
36.0	187.089	14.088	2131.103	0.52%	94.49%
37.0	142.502	10.749	2141.853	0.40%	94.97%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	112.575	8.514	2150.367	0.31%	95.35%
39.0	89.605	6.901	2157.268	0.25%	95.65%
40.0	73.007	5.671	2162.939	0.21%	95.91%
41.0	59.927	4.734	2167.673	0.17%	96.12%
42.0	50.329	4.006	2171.679	0.15%	96.29%
43.0	43.197	3.464	2175.143	0.13%	96.45%
44.0	37.857	3.059	2178.203	0.11%	96.58%
45.0	33.980	2.761	2180.963	0.10%	96.71%
46.0	31.046	2.543	2183.506	0.09%	96.82%
47.0	28.559	2.371	2185.877	0.09%	96.92%
48.0	26.664	2.232	2188.109	0.08%	97.02%
49.0	24.996	2.121	2190.231	0.08%	97.12%
50.0	23.636	2.028	2192.259	0.07%	97.21%
51.0	22.582	1.955	2194.214	0.07%	97.29%
52.0	21.792	1.904	2196.118	0.07%	97.38%
53.0	21.207	1.870	2197.989	0.07%	97.46%
54.0	20.783	1.851	2199.839	0.07%	97.54%
55.0	20.490	1.842	2201.682	0.07%	97.62%
56.0	20.300	1.843	2203.525	0.07%	97.71%
57.0	20.190	1.851	2205.376	0.07%	97.79%
58.0	20.183	1.867	2207.243	0.07%	97.87%
59.0	20.249	1.890	2209.133	0.07%	97.95%
60.0	20.344	1.918	2211.051	0.07%	98.04%
61.0	20.337	1.941	2212.992	0.07%	98.13%
62.0	20.066	1.947	2214.939	0.07%	98.21%
63.0	19.481	1.923	2216.863	0.07%	98.30%
64.0	18.800	1.878	2218.741	0.07%	98.38%
65.0	17.952	1.819	2220.56	0.07%	98.46%
66.0	17.169	1.752	2222.312	0.06%	98.54%
67.0	16.401	1.688	2224	0.06%	98.61%
68.0	15.779	1.630	2225.63	0.06%	98.69%
69.0	15.457	1.594	2227.224	0.06%	98.76%
70.0	15.362	1.583	2228.807	0.06%	98.83%
71.0	15.406	1.590	2230.397	0.06%	98.90%
72.0	15.267	1.595	2231.992	0.06%	98.97%
73.0	15.018	1.584	2233.576	0.06%	99.04%
74.0	14.777	1.566	2235.142	0.06%	99.11%
75.0	14.528	1.548	2236.69	0.06%	99.18%

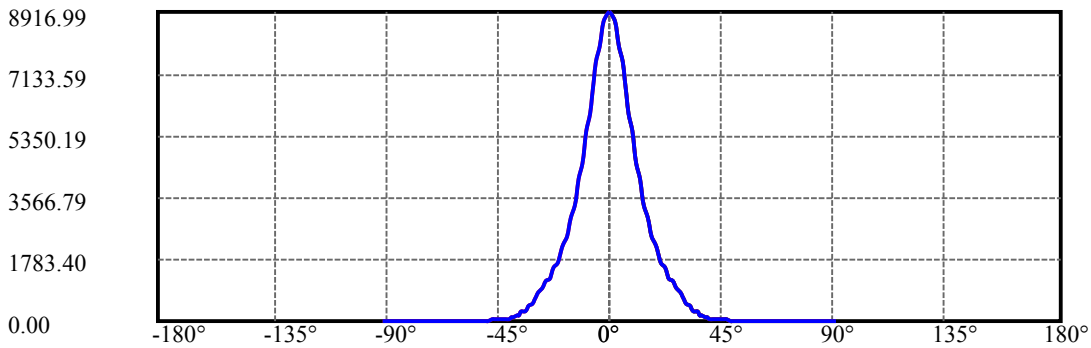
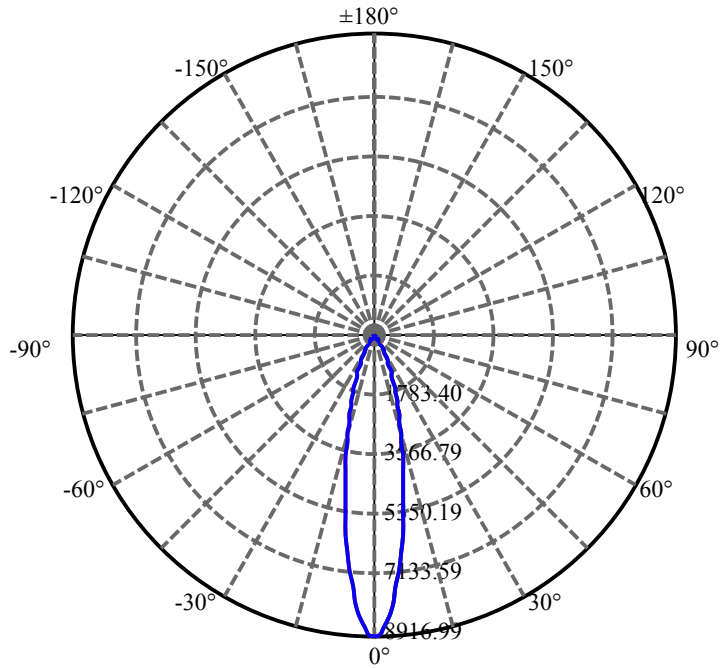
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.258	1.528	2238.218	0.06%	99.24%
77.0	13.819	1.497	2239.715	0.06%	99.31%
78.0	13.402	1.457	2241.172	0.05%	99.38%
79.0	12.816	1.409	2242.581	0.05%	99.44%
80.0	12.217	1.350	2243.931	0.05%	99.50%
81.0	11.514	1.283	2245.214	0.05%	99.55%
82.0	10.973	1.219	2246.434	0.04%	99.61%
83.0	10.673	1.177	2247.61	0.04%	99.66%
84.0	10.454	1.151	2248.761	0.04%	99.71%
85.0	10.234	1.129	2249.89	0.04%	99.76%
86.0	10.000	1.106	2250.996	0.04%	99.81%
87.0	9.810	1.084	2252.08	0.04%	99.86%
88.0	9.737	1.071	2253.151	0.04%	99.91%
89.0	9.598	1.060	2254.211	0.04%	99.95%
90.0	9.554	1.050	2255.261	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1999.23	73.58%	88.65%
0-40	2162.94	79.61%	95.91%
0-60	2211.05	81.38%	98.04%
0-90	2254.21	82.97%	99.95%
0-120	2254.21	82.97%	99.95%
0-180	2255.26	83.01%	100.00%
60-90	43.16	1.59%	1.91%
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%
0-25.50	1804.21	66.40%	80.00%

ZONAL LUMEN SUMMARY

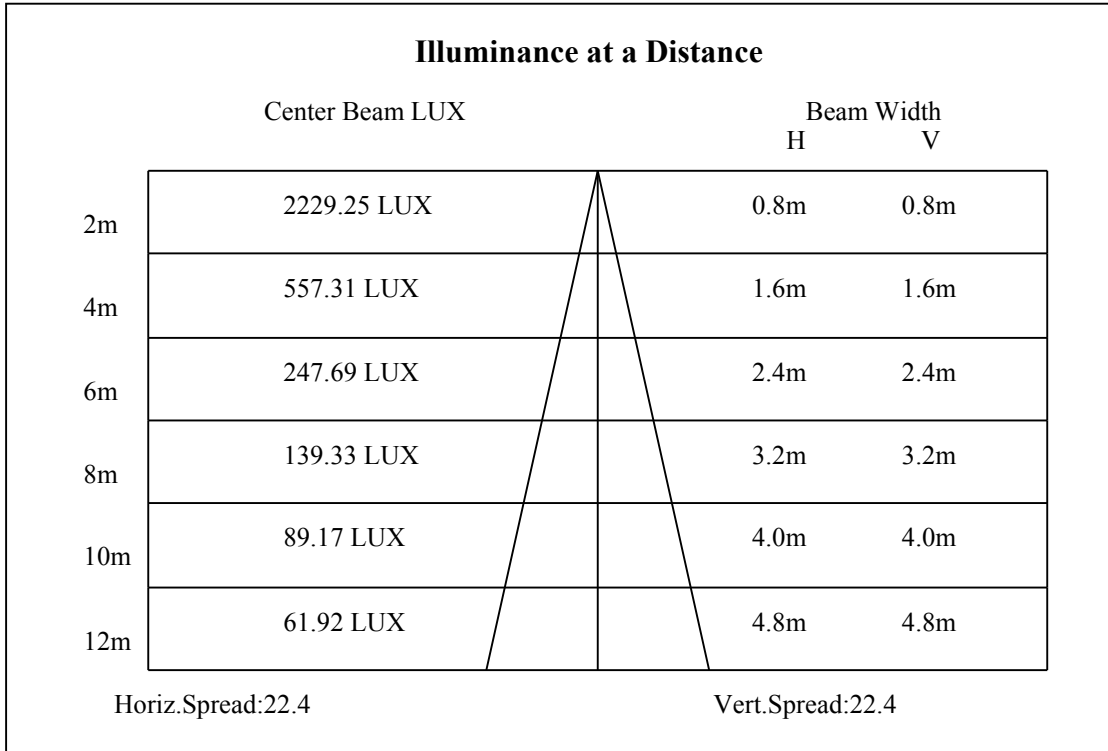
0-10	630.78
10-20	841.62
20-30	526.83
30-40	163.71
40-50	29.32
50-60	18.79
60-70	17.76
70-80	15.12
80-90	10.28
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

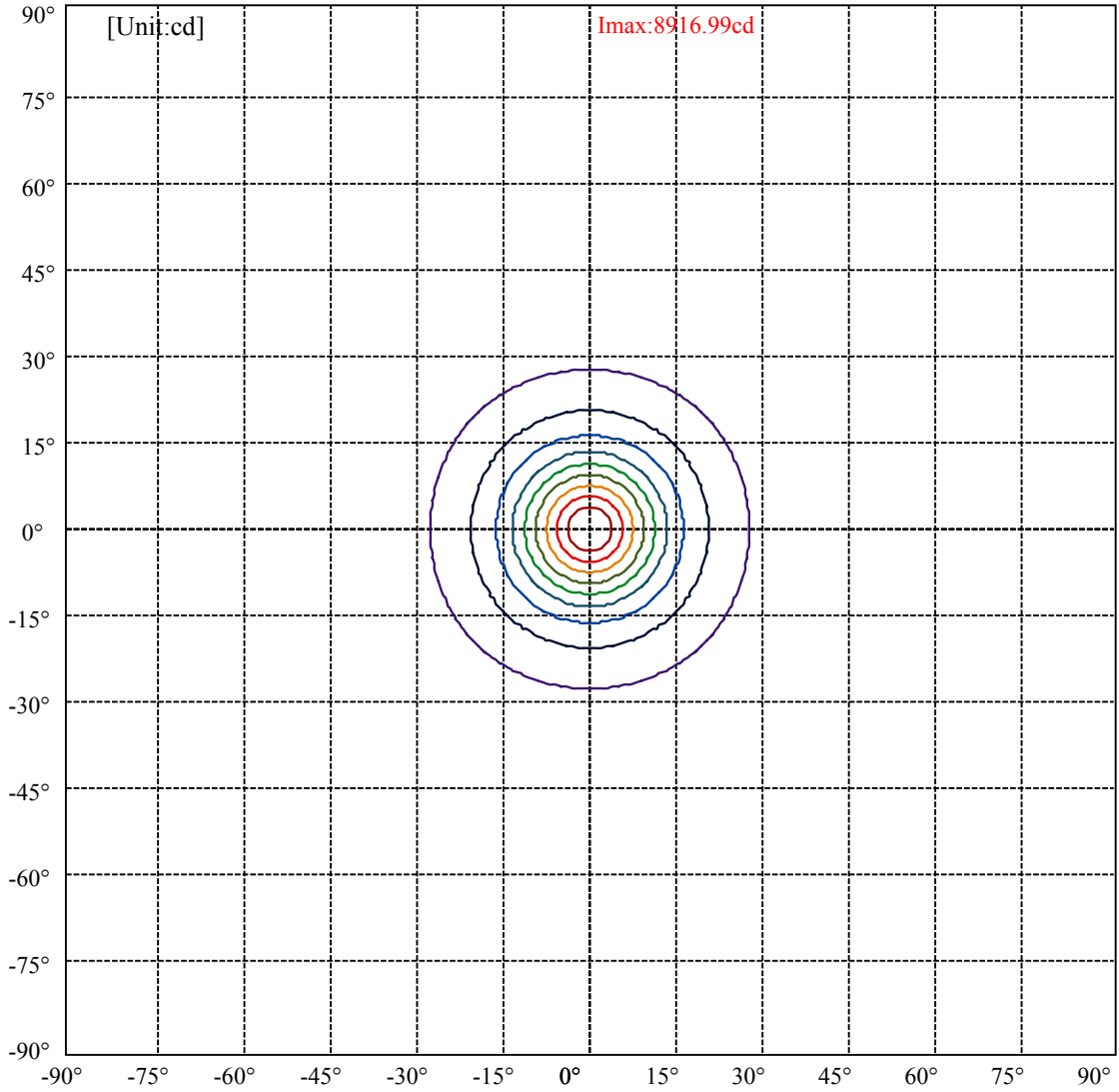


C0(Max): —————  
C0/C180: —————  
C90/C270: —————

Field angle(10%Imax):C0/180Left:27.4 Right:27.4  
:C90/270Left:27.4 Right:27.4

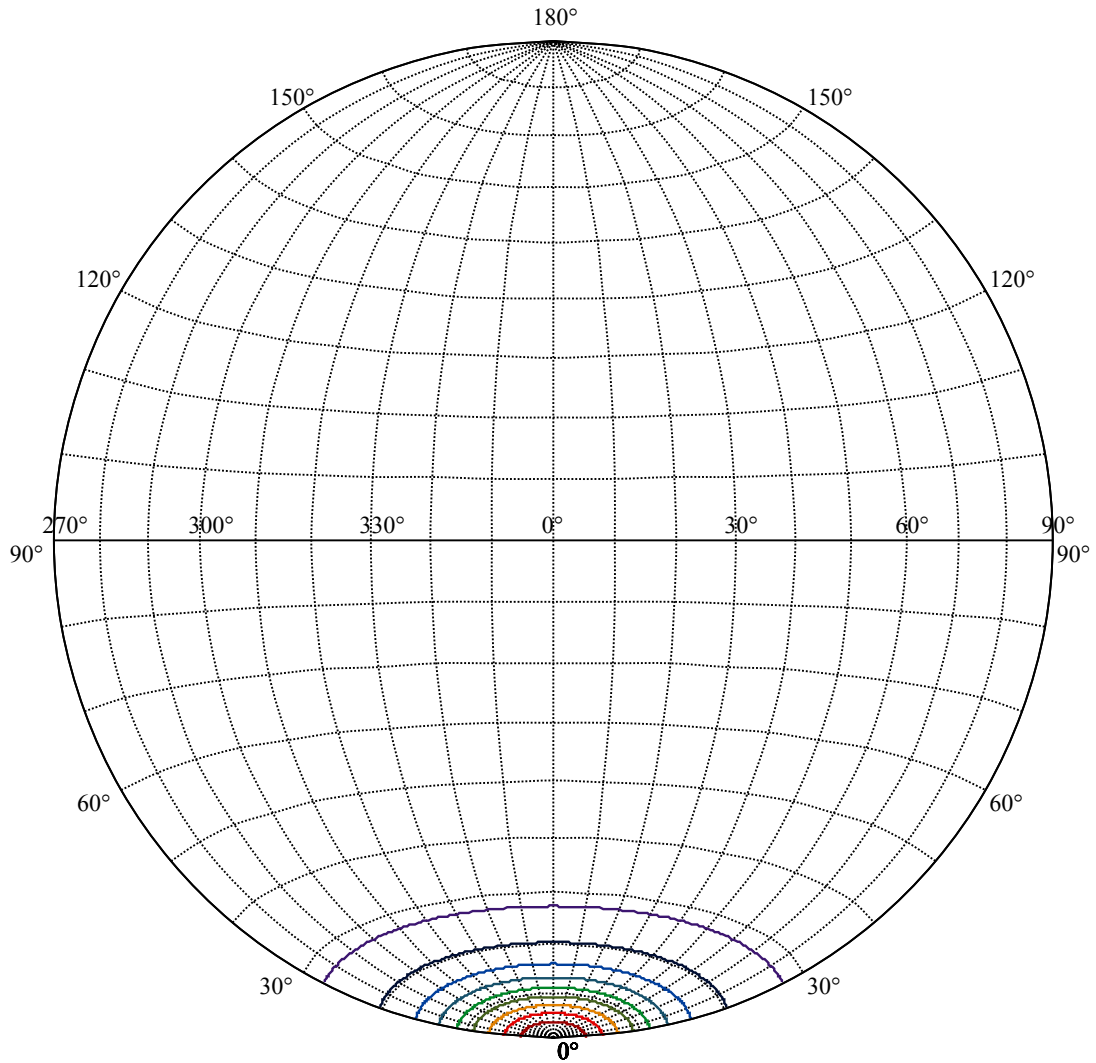
Beam Angle(50%Imax):C0/180Left:11.2 Right:11.2  
:C90/270Left:11.2 Right:11.2





(10%Imax) 891.699	—
(20%Imax) 1783.4	—
(30%Imax) 2675.1	—
(40%Imax) 3566.79	—
(50%Imax) 4458.49	—
(60%Imax) 5350.19	—
(70%Imax) 6241.89	—
(80%Imax) 7133.59	—
(90%Imax) 8025.29	—





House

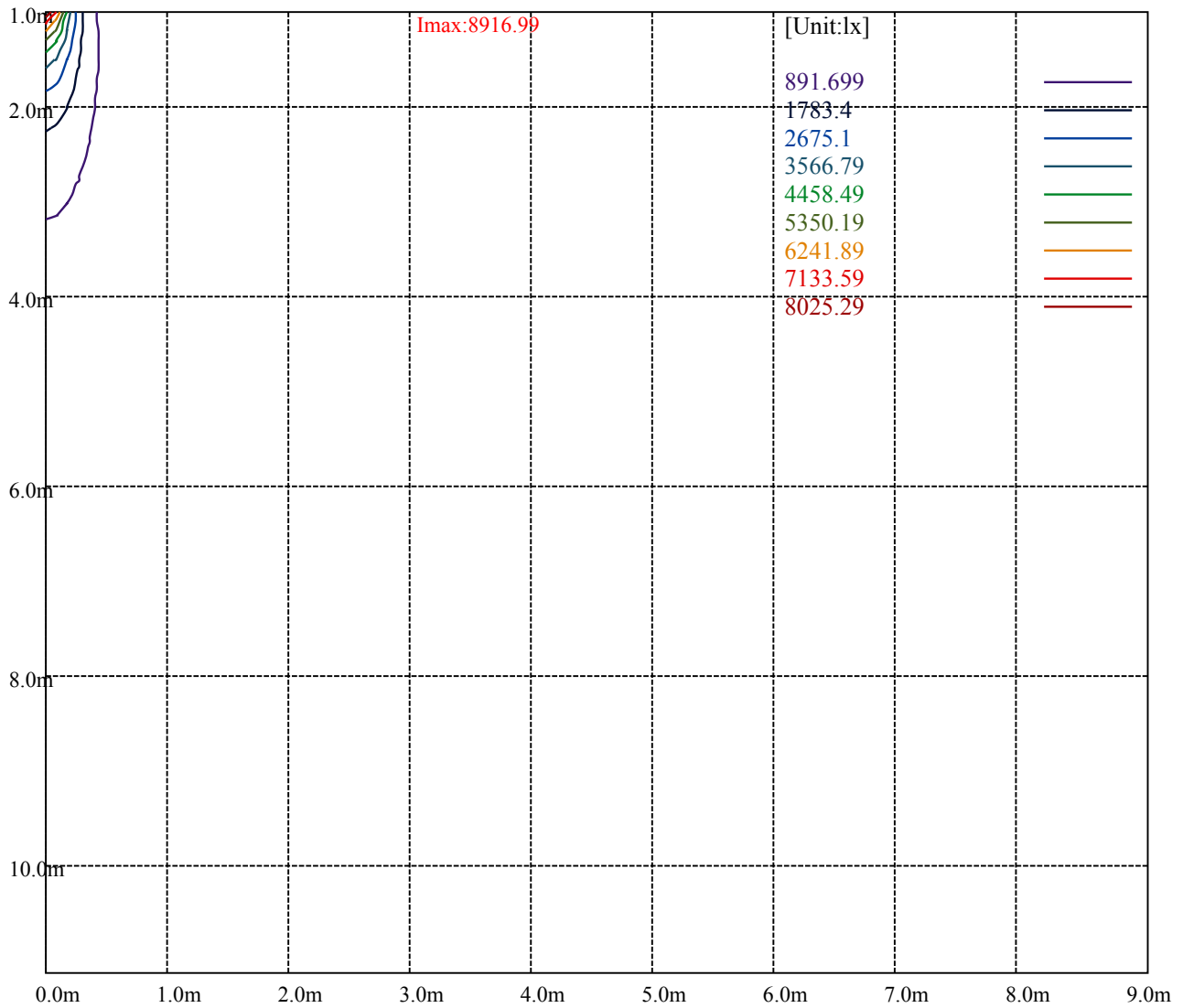
[Unit:cd]

Road

**I<sub>max</sub>:8916.99**

(10%I <sub>max</sub> ) 891.699	—
(20%I <sub>max</sub> ) 1783.4	—
(30%I <sub>max</sub> ) 2675.1	—
(40%I <sub>max</sub> ) 3566.79	—
(50%I <sub>max</sub> ) 4458.49	—
(60%I <sub>max</sub> ) 5350.19	—
(70%I <sub>max</sub> ) 6241.89	—
(80%I <sub>max</sub> ) 7133.59	—
(90%I <sub>max</sub> ) 8025.29	—





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

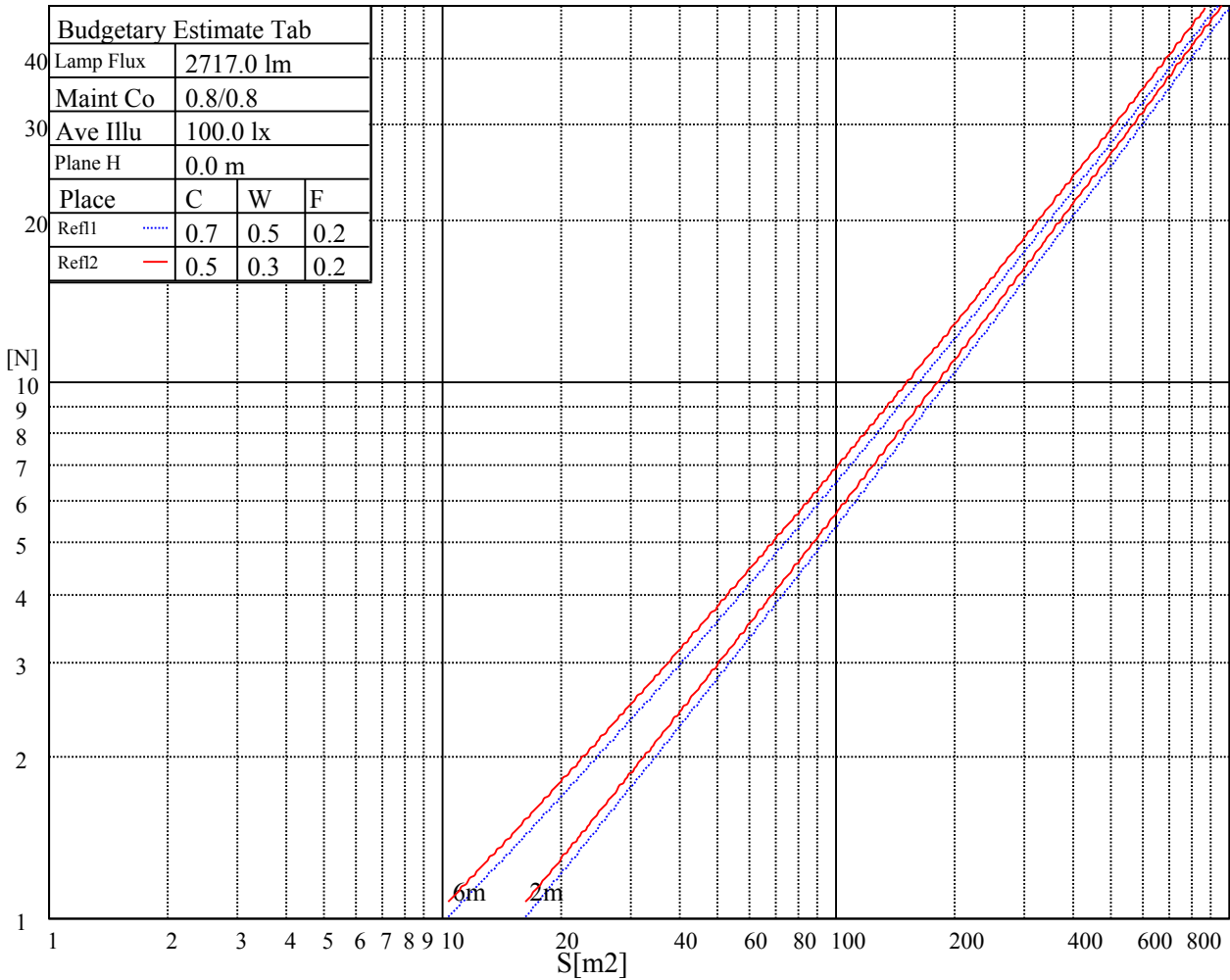
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

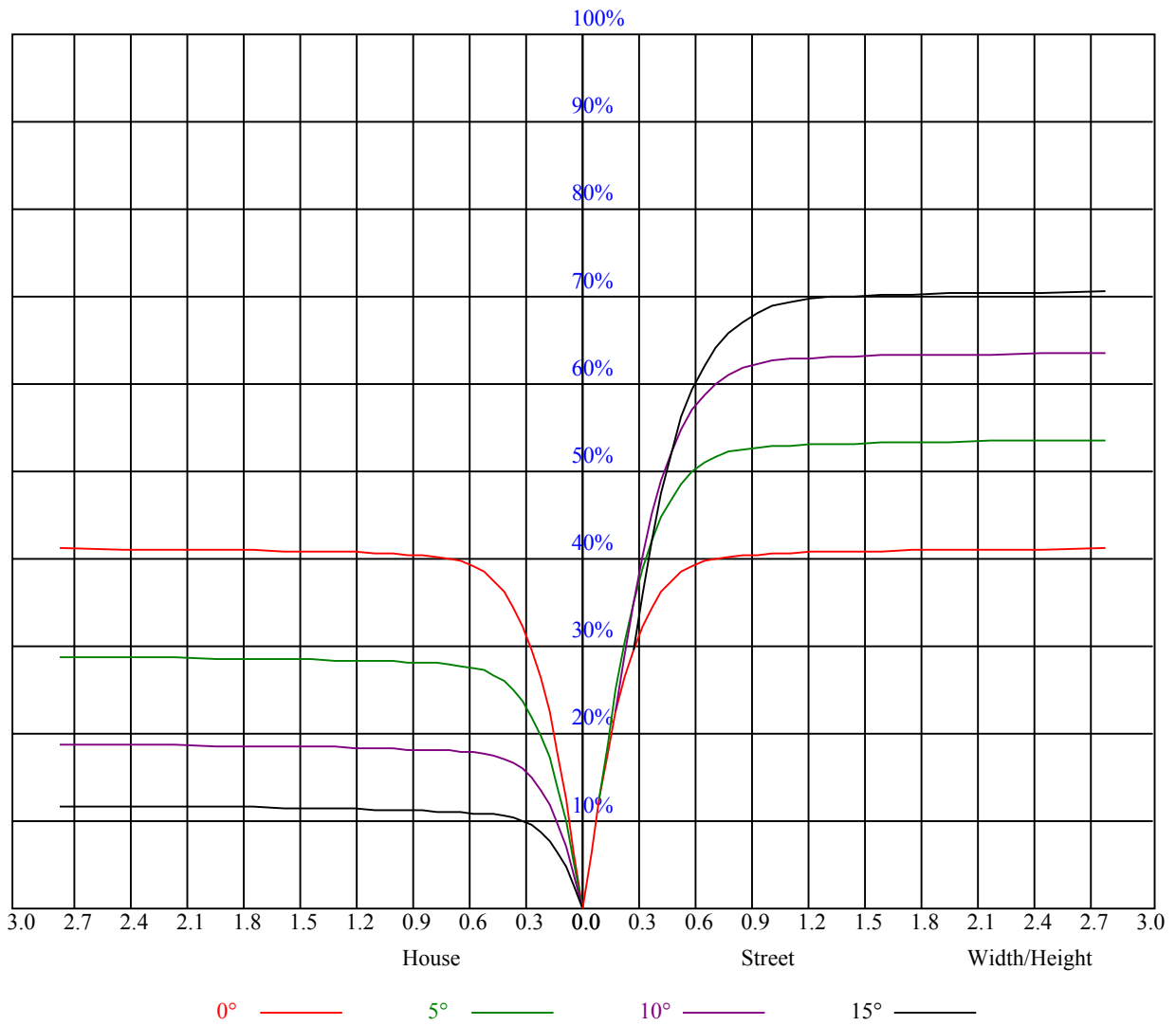


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字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

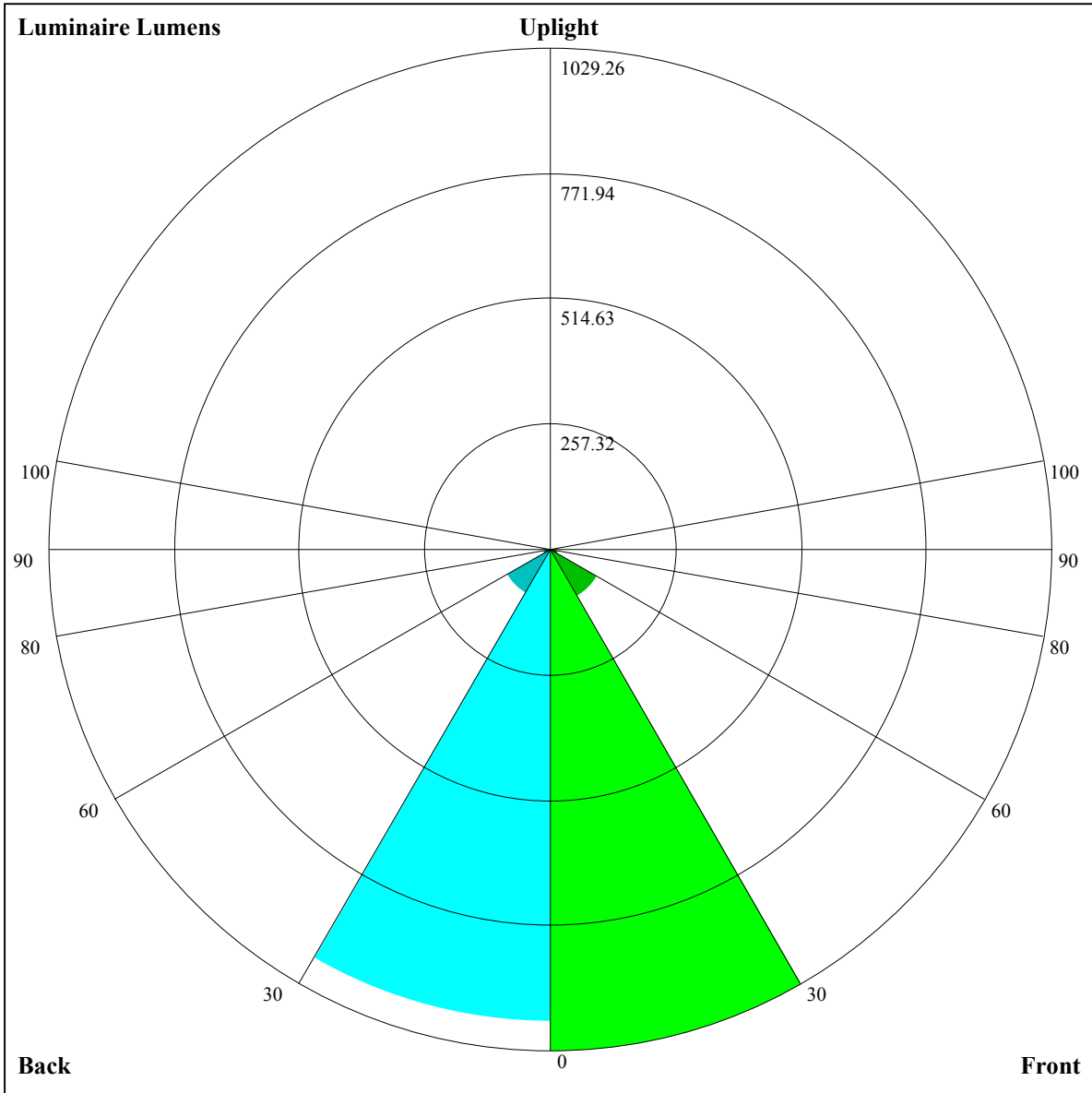
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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 RHOF=20 CU															
0	0.99	0.99	0.99	0.97	0.97	0.97	0.92	0.92	0.92	0.88	0.88	0.88	0.85	0.85	0.85	0.83
1	0.93	0.91	0.89	0.91	0.89	0.88	0.88	0.86	0.85	0.85	0.84	0.83	0.82	0.81	0.80	0.79
2	0.88	0.85	0.82	0.86	0.84	0.81	0.84	0.81	0.80	0.81	0.79	0.78	0.79	0.78	0.76	0.75
3	0.83	0.80	0.77	0.82	0.79	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.76	0.74	0.73	0.72
4	0.79	0.75	0.73	0.78	0.75	0.72	0.77	0.74	0.71	0.75	0.73	0.71	0.74	0.71	0.70	0.69
5	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.70	0.68	0.72	0.70	0.67	0.71	0.69	0.67	0.66
6	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.69	0.66	0.64	0.63
7	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.64	0.62	0.61
8	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	0.62	0.60	0.59
9	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.57
10	0.62	0.59	0.56	0.62	0.58	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.60	0.58	0.56	0.55







Luminaire Lumens:

FL=1029.26,FM=112.32,FH=15.68,FVH=5.66

BL=969.02,BM=103.78,BH=16.76,BVH=5.69

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	8978.00	8973.31	8825.84	8556.05	8206.08	7692.26	7259.19	6802.71	6344.48
45.0	8823.50	8945.22	8918.89	8766.14	8407.99	8041.64	7633.15	7185.45	6605.49
90.0	8919.47	8767.90	8523.86	8179.75	7659.48	7196.57	6721.95	6141.99	5693.13
135.0	8946.98	8886.11	8720.50	8355.90	7967.31	7526.64	6926.20	6443.97	5864.60
180.0	8978.00	8839.88	8596.43	8163.36	7746.10	7283.77	6683.33	6176.52	5722.97
225.0	8823.50	8597.60	8187.94	7777.70	7330.00	6868.84	6282.45	5807.83	5338.48
270.0	8919.47	8905.43	8774.34	8446.61	8091.38	7686.99	7236.37	6638.27	6189.98
315.0	8946.98	8870.90	8673.68	8368.19	7992.48	7461.68	6993.50	6518.88	6035.48
360.0	8978.00	8973.31	8825.84	8556.05	8206.08	7692.26	7259.19	6802.71	6344.48
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5752.82	5280.54	4705.27	4273.37	3871.91	3423.04	3091.80	2800.95	2548.71
45.0	6144.34	5673.23	5203.29	4635.04	4211.92	3828.02	3399.05	3073.07	2791.58
90.0	5244.84	4686.54	4264.59	3874.25	3516.68	3118.14	2830.79	2581.49	2367.29
135.0	5411.63	4968.62	4534.38	4123.55	3652.45	3317.70	3008.12	2730.13	2442.20
180.0	5275.86	4725.75	4300.29	3903.51	3545.35	3138.62	2847.18	2598.46	2325.16
225.0	4874.98	4337.16	3941.55	3583.98	3177.25	2883.46	2632.40	2357.34	2162.46
270.0	5739.95	5284.64	4723.99	4302.05	3806.36	3449.96	3116.97	2766.42	2531.16
315.0	5432.12	4966.28	4524.43	4015.29	3644.84	3219.97	2908.04	2644.11	2359.69
360.0	5752.82	5280.54	4705.27	4273.37	3871.91	3423.04	3091.80	2800.95	2548.71
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2283.02	2096.33	1925.45	1767.44	1593.04	1466.63	1147.80	1147.80	1093.90
45.0	2490.19	2285.36	2057.12	1890.92	1741.10	1601.23	1443.22	1329.10	1216.74
90.0	2133.20	1959.98	1766.27	1626.98	1498.82	1153.89	1153.89	1127.85	1022.51
135.0	2244.40	2067.07	1864.00	1717.69	1552.08	1432.10	1319.74	1210.30	1075.70
180.0	2139.06	1960.56	1756.32	1622.89	1468.39	1340.22	1234.30	1121.93	993.19
225.0	1982.80	1783.82	1640.44	1509.94	1391.14	1141.42	1141.42	1031.52	896.56
270.0	2320.48	2117.40	1887.99	1738.18	1596.55	1470.14	1316.23	1204.45	1099.70
315.0	2163.05	1983.39	1818.35	1634.59	1504.09	1310.96	1165.89	1165.89	1026.72
360.0	2283.02	2096.33	1925.45	1767.44	1593.04	1466.63	1147.80	1147.80	1093.90
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	986.75	854.19	751.43	651.36	538.64	457.70	383.32	300.34	244.33
45.0	1104.38	965.09	857.41	752.66	653.75	541.98	461.80	370.51	304.96
90.0	891.77	786.02	684.60	589.56	483.63	405.68	335.22	272.89	208.52
135.0	967.44	858.58	754.41	632.10	544.32	462.97	369.34	303.79	303.79
180.0	887.26	784.85	657.85	561.87	479.36	401.52	333.05	301.45	301.45
225.0	789.70	686.29	587.16	497.97	398.19	328.25	254.16	205.47	166.03
270.0	959.24	855.07	718.13	618.06	527.35	446.00	352.36	303.79	303.79
315.0	915.88	780.46	676.70	580.66	475.61	398.89	330.30	271.08	210.21
360.0	986.75	854.19	751.43	651.36	538.64	457.70	383.32	300.34	244.33
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	198.63	160.76	123.37	100.48	82.69	68.35	54.54	46.35	39.27
45.0	304.96	188.50	152.39	122.66	99.66	77.89	64.32	53.78	45.94
90.0	167.20	134.13	101.77	82.11	64.61	54.72	47.23	41.55	36.28
135.0	185.34	148.12	118.10	89.19	72.39	60.04	49.57	43.37	38.57
180.0	156.78	125.53	100.72	77.19	63.26	53.20	46.00	39.68	35.87
225.0	126.47	101.95	82.63	65.02	54.78	47.05	41.26	36.05	32.89
270.0	186.51	142.56	114.70	92.88	75.49	59.52	50.62	43.89	37.51
315.0	170.83	138.46	106.92	87.32	71.16	58.64	49.10	40.91	36.52
360.0	198.63	160.76	123.37	100.48	82.69	68.35	54.54	46.35	39.27

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	35.29	32.25	29.20	27.27	25.69	23.99	23.00	22.18	21.59
45.0	39.09	35.35	32.30	29.79	27.21	25.52	23.82	22.77	21.95
90.0	33.07	30.43	28.27	26.04	24.58	23.41	22.47	21.59	21.13
135.0	34.88	31.43	29.26	27.33	25.75	24.17	23.12	22.30	21.59
180.0	32.89	30.43	27.92	26.28	24.87	23.47	22.59	21.89	21.36
225.0	30.37	28.27	26.04	24.64	23.17	22.18	21.48	20.89	20.54
270.0	33.77	30.31	28.15	26.34	24.46	23.23	22.24	21.42	20.72
315.0	32.48	29.90	27.33	25.63	24.23	23.12	21.95	21.30	20.78
360.0	35.29	32.25	29.20	27.27	25.69	23.99	23.00	22.18	21.59
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	21.13	20.72	20.54	20.37	20.31	20.25	20.37	20.37	20.19
45.0	21.30	20.89	20.60	20.42	20.31	20.31	20.37	20.48	20.54
90.0	20.66	20.48	20.37	20.25	20.31	20.42	20.60	20.42	20.01
135.0	21.19	20.83	20.54	20.42	20.37	20.54	20.66	20.78	20.48
180.0	20.95	20.72	20.54	20.48	20.54	20.66	20.72	20.66	20.25
225.0	20.25	20.07	19.96	19.96	20.07	20.19	20.19	19.90	19.37
270.0	20.37	20.07	19.90	19.72	19.72	19.72	19.84	19.96	19.84
315.0	20.42	20.13	19.96	19.90	19.84	19.90	20.01	20.13	19.84
360.0	21.13	20.72	20.54	20.37	20.31	20.25	20.37	20.37	20.19
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.61	19.08	18.32	17.50	16.50	15.74	15.10	14.81	14.75
45.0	20.31	19.78	18.96	18.14	17.26	16.39	15.51	14.81	14.46
90.0	19.43	18.49	17.56	16.80	16.04	15.04	14.57	14.10	13.81
135.0	19.84	19.25	18.32	17.62	16.80	16.44	16.62	17.32	18.20
180.0	19.49	18.73	17.91	17.21	16.56	16.44	16.80	17.32	17.91
225.0	18.55	17.73	16.97	16.21	15.68	15.57	15.74	16.15	16.44
270.0	19.31	18.79	17.97	16.97	16.27	15.45	14.75	14.16	13.81
315.0	19.31	18.55	17.62	16.91	16.09	15.16	14.57	14.22	13.87
360.0	19.61	19.08	18.32	17.50	16.50	15.74	15.10	14.81	14.75
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.46	14.05	13.58	13.11	12.82	12.52	12.17	11.88	11.59
45.0	14.22	14.05	13.69	13.34	13.05	12.76	12.35	12.06	11.82
90.0	13.52	13.23	12.99	12.82	12.58	12.23	11.94	11.70	11.41
135.0	18.49	18.26	18.08	18.14	18.02	17.44	16.33	14.98	14.28
180.0	17.97	17.79	17.67	17.62	17.32	16.56	16.21	14.98	13.64
225.0	16.39	16.27	16.15	15.68	15.27	14.57	14.16	13.34	11.88
270.0	13.58	13.28	13.05	12.76	12.52	12.23	12.06	11.76	11.53
315.0	13.52	13.23	12.99	12.76	12.47	12.23	12.00	11.82	11.59
360.0	14.46	14.05	13.58	13.11	12.82	12.52	12.17	11.88	11.59
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.35	11.06	10.77	10.48	10.36	10.24	9.89	9.83	9.71
45.0	11.59	11.29	10.89	10.59	10.42	10.24	10.01	9.83	9.71
90.0	11.12	10.83	10.59	10.42	10.18	9.89	9.77	9.66	9.54
135.0	12.70	11.12	10.77	10.53	10.30	10.01	9.77	9.60	9.48
180.0	11.70	11.00	10.65	10.42	10.18	9.83	9.77	10.12	9.66
225.0	11.12	10.71	10.42	10.30	9.95	9.77	9.66	9.54	9.54
270.0	11.24	10.94	10.71	10.53	10.30	10.07	9.83	9.66	9.60
315.0	11.29	10.83	10.59	10.36	10.18	9.95	9.77	9.66	9.54
360.0	11.35	11.06	10.77	10.48	10.36	10.24	9.89	9.83	9.71

Intensity data(cd)

C/ $\gamma$ (°)	90.0
0.0	9.71
45.0	9.60
90.0	9.54
135.0	9.48
180.0	9.54
225.0	9.54
270.0	9.54
315.0	9.48
360.0	9.71