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## Nata

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Client:

LumCAT: 2-2759-L

Luminaire: 92.70.412.00

Report No: 2024812-B007

Ballast type: AC

Test No: 2024812-C007

Voltage(V): 36.730

LampCAT: P2141-036-1206-P3090-1

Current(A): 0.695

Lamp flux(lm): 3141.0

Power (W): 25.510

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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## Photometric Results

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Lumens(lm): 2904.16, Efficiency(%): 92.46% , Luminous Efficacy(lm/W): 113.84

Central intensity(cd): 5859.405, Maximum intensity(cd): 5859.405

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

Beam Angle(50%Imax): [C0/180]Total=39.4

[C90/270]Total=39.4

Field angle(10%Imax): [C0/180]Total=67.8

[C90/270]Total=67.8

Maximum s/h(1/2): C0\_180=0.62 C90\_270=0.62

Maximum s/h(1/4): C0\_180=0.66 C90\_270=0.66

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 92.46%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 99.130%

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Equipment: GMS 1800  
Temperature(°C): 25.0

Date: 2024/8/12  
Humidity(%): 60.0%

Operator: NT  
Distance(m): 7.25

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5859.405	0.000	0	0.00%	0.00%
1.0	5847.854	5.602	5.602	0.18%	0.19%
2.0	5816.586	16.742	22.344	0.53%	0.77%
3.0	5762.598	27.694	50.037	0.88%	1.72%
4.0	5699.234	38.366	88.404	1.22%	3.04%
5.0	5594.273	48.584	136.988	1.55%	4.72%
6.0	5477.407	58.185	195.172	1.85%	6.72%
7.0	5343.826	67.167	262.34	2.14%	9.03%
8.0	5189.292	75.384	337.723	2.40%	11.63%
9.0	5014.890	82.699	420.422	2.63%	14.48%
10.0	4832.701	89.117	509.539	2.84%	17.55%
11.0	4639.442	94.646	604.186	3.01%	20.80%
12.0	4439.764	99.249	703.434	3.16%	24.22%
13.0	4236.472	102.965	806.399	3.28%	27.77%
14.0	4036.242	105.890	912.289	3.37%	31.41%
15.0	3833.495	108.039	1020.329	3.44%	35.13%
16.0	3640.025	109.508	1129.837	3.49%	38.90%
17.0	3425.866	110.035	1239.872	3.50%	42.69%
18.0	3237.055	109.857	1349.729	3.50%	46.48%
19.0	3053.678	109.446	1459.175	3.48%	50.24%
20.0	2866.411	108.354	1567.529	3.45%	53.98%
21.0	2675.228	106.411	1673.939	3.39%	57.64%
22.0	2486.916	103.735	1777.675	3.30%	61.21%
23.0	2307.849	100.607	1878.282	3.20%	64.68%
24.0	2131.101	97.051	1975.333	3.09%	68.02%
25.0	1973.768	93.336	2068.669	2.97%	71.23%
26.0	1794.911	88.960	2157.629	2.83%	74.29%
27.0	1601.934	83.105	2240.734	2.65%	77.16%
28.0	1449.713	77.261	2317.995	2.46%	79.82%
29.0	1298.622	71.904	2389.899	2.29%	82.29%
30.0	1123.997	65.410	2455.309	2.08%	84.54%
31.0	1001.289	59.144	2514.453	1.88%	86.58%
32.0	846.834	52.947	2567.399	1.69%	88.40%
33.0	711.466	45.908	2613.308	1.46%	89.99%
34.0	579.015	39.054	2652.361	1.24%	91.33%
35.0	479.423	32.871	2685.232	1.05%	92.46%
36.0	395.920	27.871	2713.104	0.89%	93.42%
37.0	324.987	23.512	2736.616	0.75%	94.23%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	282.103	20.264	2756.879	0.65%	94.93%
39.0	235.296	17.660	2774.54	0.56%	95.54%
40.0	202.747	15.277	2789.817	0.49%	96.06%
41.0	165.539	13.114	2802.931	0.42%	96.51%
42.0	129.606	10.723	2813.655	0.34%	96.88%
43.0	108.292	8.812	2822.467	0.28%	97.19%
44.0	88.167	7.415	2829.882	0.24%	97.44%
45.0	73.883	6.228	2836.11	0.20%	97.66%
46.0	62.083	5.317	2841.427	0.17%	97.84%
47.0	53.147	4.583	2846.01	0.15%	98.00%
48.0	46.268	4.019	2850.029	0.13%	98.14%
49.0	40.808	3.576	2853.605	0.11%	98.26%
50.0	36.452	3.221	2856.826	0.10%	98.37%
51.0	32.917	2.935	2859.761	0.09%	98.47%
52.0	30.039	2.702	2862.462	0.09%	98.56%
53.0	27.431	2.500	2864.962	0.08%	98.65%
54.0	25.335	2.326	2867.288	0.07%	98.73%
55.0	23.627	2.186	2869.474	0.07%	98.81%
56.0	22.089	2.066	2871.54	0.07%	98.88%
57.0	20.920	1.966	2873.506	0.06%	98.94%
58.0	19.632	1.875	2875.381	0.06%	99.01%
59.0	18.587	1.787	2877.168	0.06%	99.07%
60.0	17.694	1.714	2878.882	0.05%	99.13%
61.0	16.925	1.652	2880.534	0.05%	99.19%
62.0	16.196	1.596	2882.13	0.05%	99.24%
63.0	15.453	1.539	2883.669	0.05%	99.29%
64.0	14.888	1.489	2885.158	0.05%	99.35%
65.0	14.179	1.439	2886.597	0.05%	99.40%
66.0	13.587	1.385	2887.982	0.04%	99.44%
67.0	12.970	1.335	2889.318	0.04%	99.49%
68.0	12.267	1.278	2890.596	0.04%	99.53%
69.0	11.544	1.215	2891.811	0.04%	99.57%
70.0	10.880	1.152	2892.962	0.04%	99.61%
71.0	10.243	1.092	2894.054	0.03%	99.65%
72.0	9.468	1.025	2895.079	0.03%	99.69%
73.0	8.752	0.953	2896.032	0.03%	99.72%
74.0	7.990	0.880	2896.912	0.03%	99.75%
75.0	7.392	0.813	2897.725	0.03%	99.78%

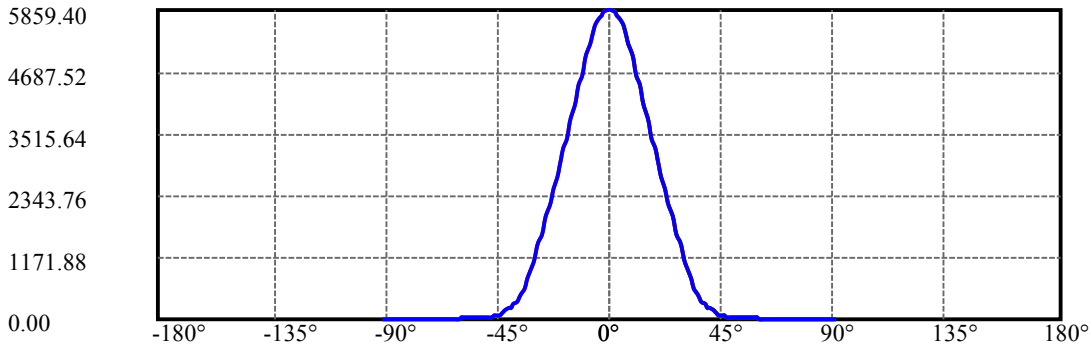
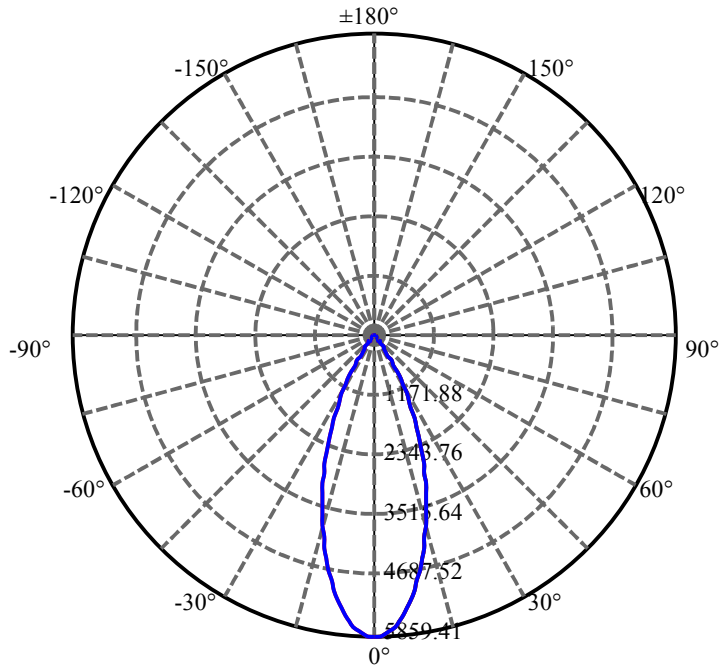
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.846	0.756	2898.48	0.02%	99.80%
77.0	6.288	0.700	2899.181	0.02%	99.83%
78.0	5.874	0.651	2899.832	0.02%	99.85%
79.0	5.375	0.604	2900.436	0.02%	99.87%
80.0	4.901	0.554	2900.99	0.02%	99.89%
81.0	4.435	0.505	2901.495	0.02%	99.91%
82.0	3.942	0.454	2901.949	0.01%	99.92%
83.0	3.548	0.407	2902.356	0.01%	99.94%
84.0	3.101	0.362	2902.719	0.01%	99.95%
85.0	2.733	0.318	2903.037	0.01%	99.96%
86.0	2.411	0.281	2903.318	0.01%	99.97%
87.0	2.142	0.249	2903.567	0.01%	99.98%
88.0	1.879	0.220	2903.788	0.01%	99.99%
89.0	1.662	0.194	2903.982	0.01%	99.99%
90.0	1.537	0.175	2904.157	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2455.31	78.17%	84.54%
0-40	2789.82	88.82%	96.06%
0-60	2878.88	91.65%	99.13%
0-90	2903.98	92.45%	99.99%
0-120	2903.98	92.45%	99.99%
0-180	2904.16	92.46%	100.00%
60-90	25.10	0.80%	0.86%
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%
0-28.07	2323.33	73.97%	80.00%

ZONAL LUMEN SUMMARY

0-10	509.54
10-20	1057.99
20-30	887.78
30-40	334.51
40-50	67.01
50-60	22.06
60-70	14.08
70-80	8.03
80-90	2.99
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: —————

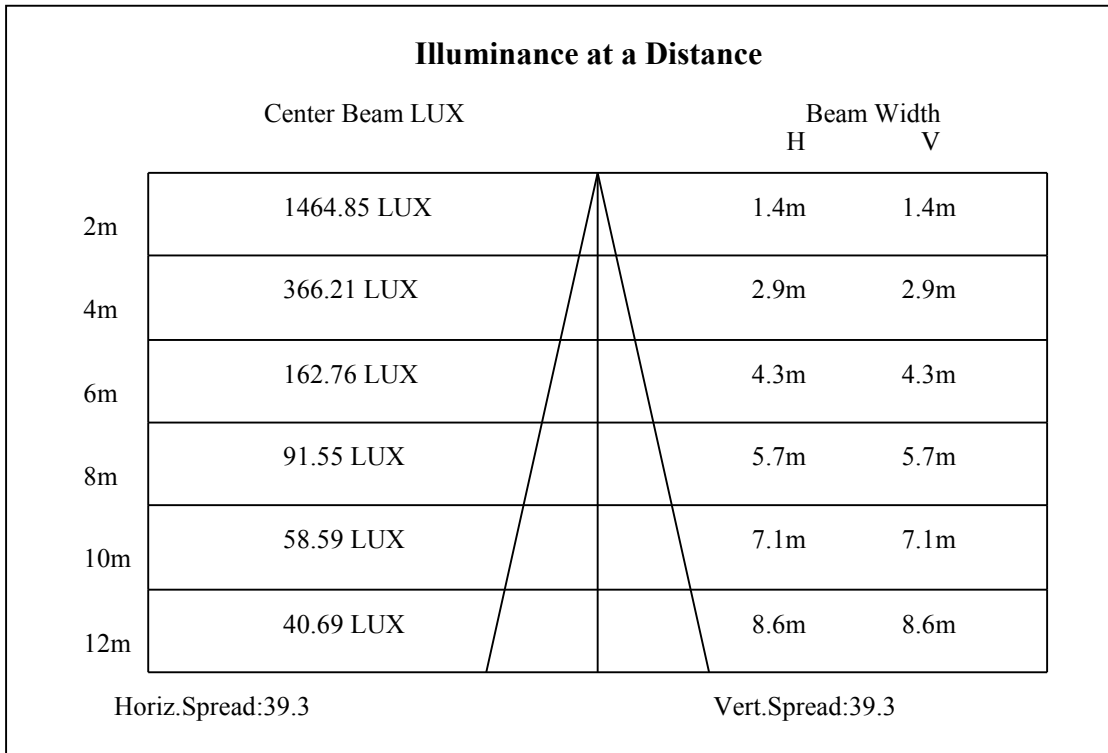
C90/C270: —————

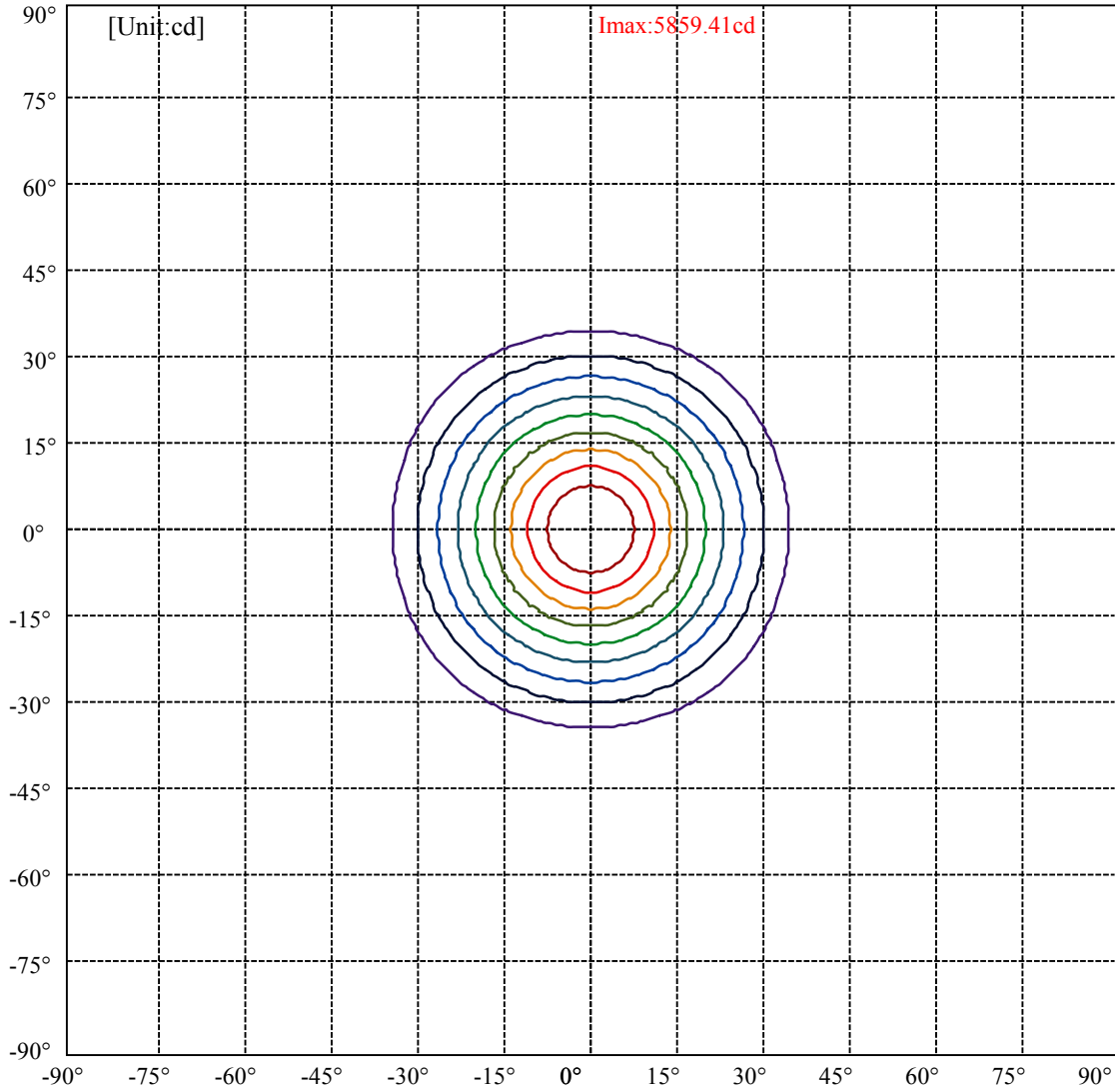
Field angle(10%Imax):C0/180Left:33.9 Right:33.9

:C90/270Left:33.9 Right:33.9

Beam Angle(50%Imax):C0/180Left:19.7 Right:19.7

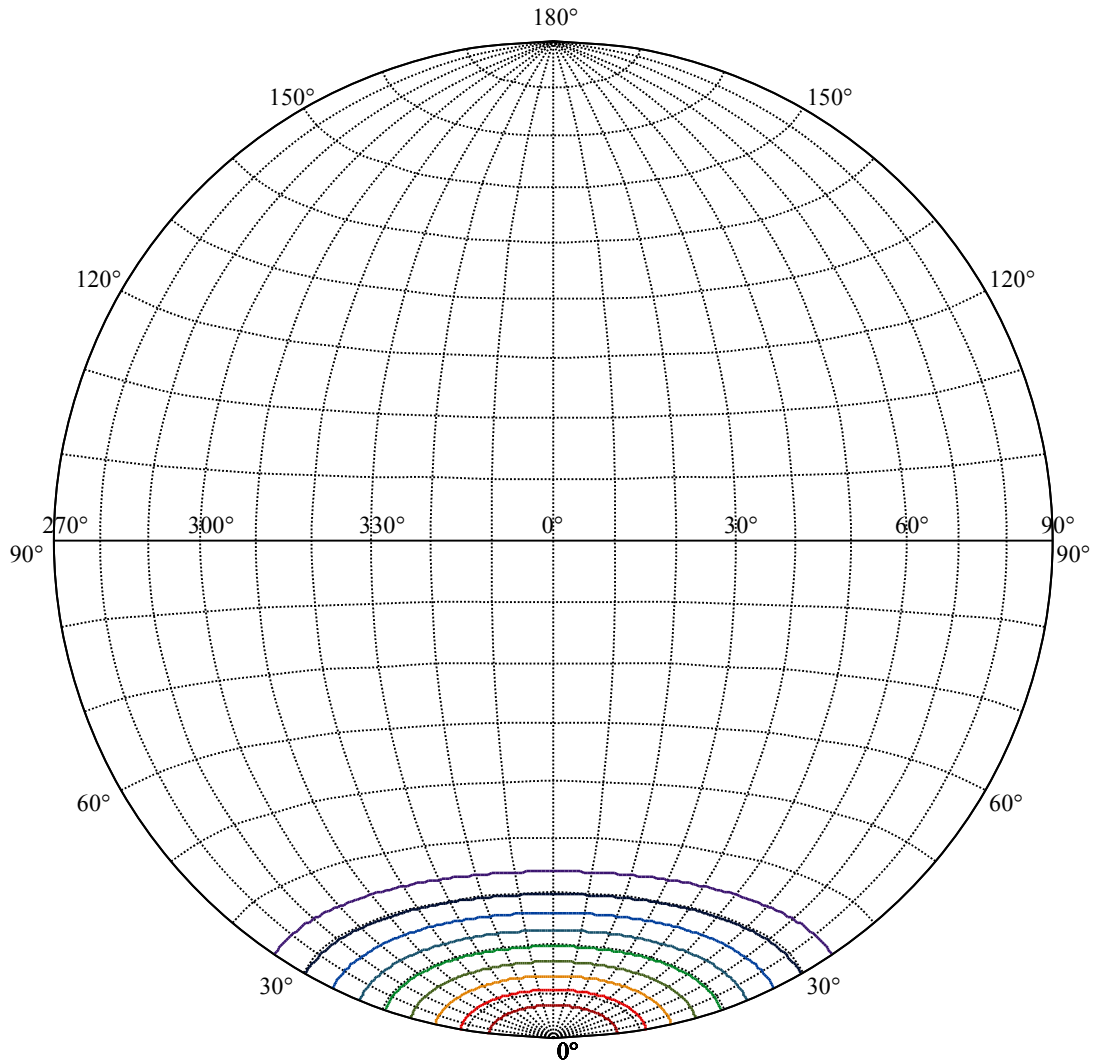
:C90/270Left:19.7 Right:19.7





(10%I <sub>max</sub> ) 585.94	—
(20%I <sub>max</sub> ) 1171.88	—
(30%I <sub>max</sub> ) 1757.82	—
(40%I <sub>max</sub> ) 2343.76	—
(50%I <sub>max</sub> ) 2929.7	—
(60%I <sub>max</sub> ) 3515.64	—
(70%I <sub>max</sub> ) 4101.58	—
(80%I <sub>max</sub> ) 4687.52	—
(90%I <sub>max</sub> ) 5273.46	—





House

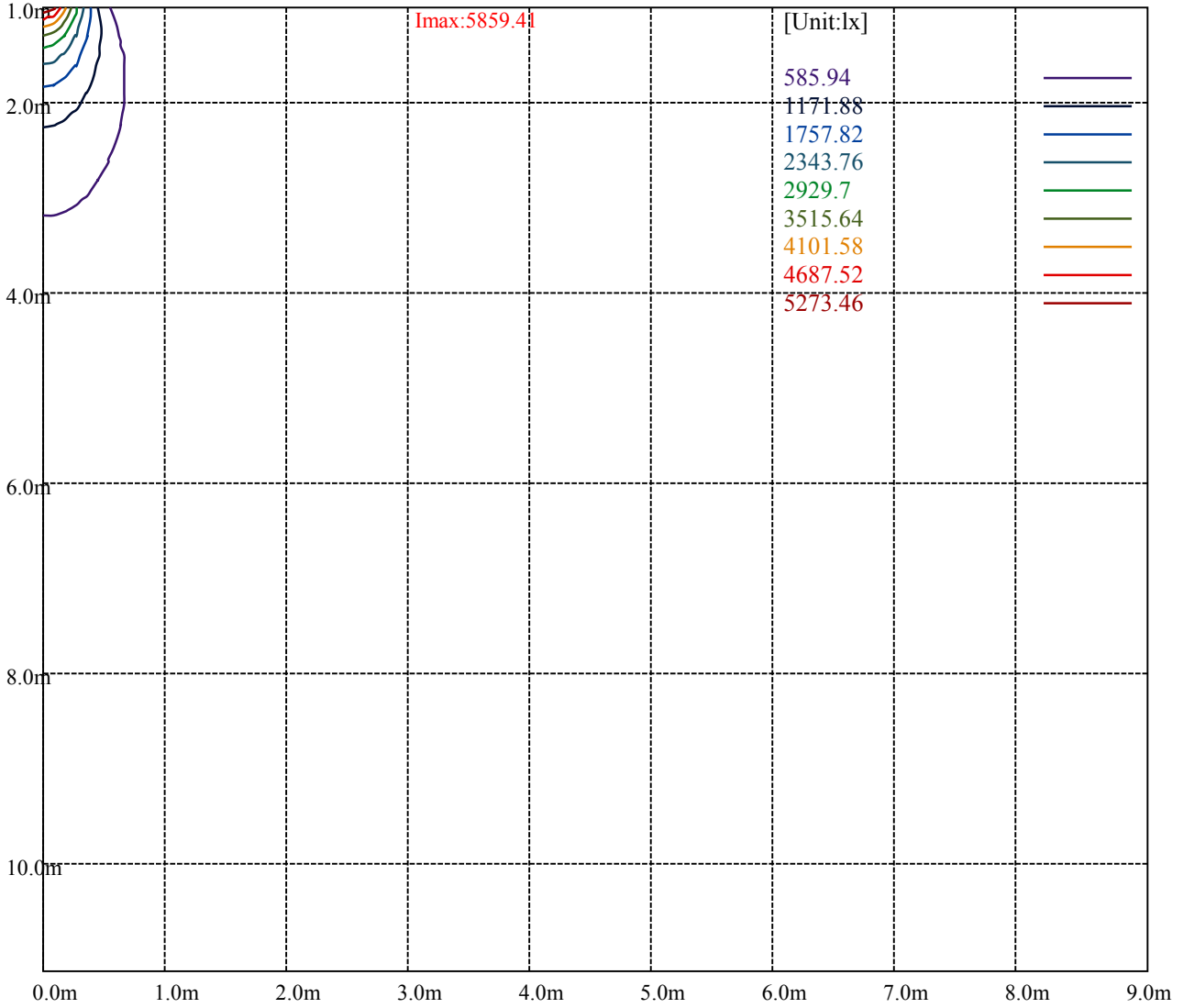
[Unit:cd]

Road

**Imax:5859.41**

(10%Imax) 585.94	—
(20%Imax) 1171.88	—
(30%Imax) 1757.82	—
(40%Imax) 2343.76	—
(50%Imax) 2929.7	—
(60%Imax) 3515.64	—
(70%Imax) 4101.58	—
(80%Imax) 4687.52	—
(90%Imax) 5273.46	—





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

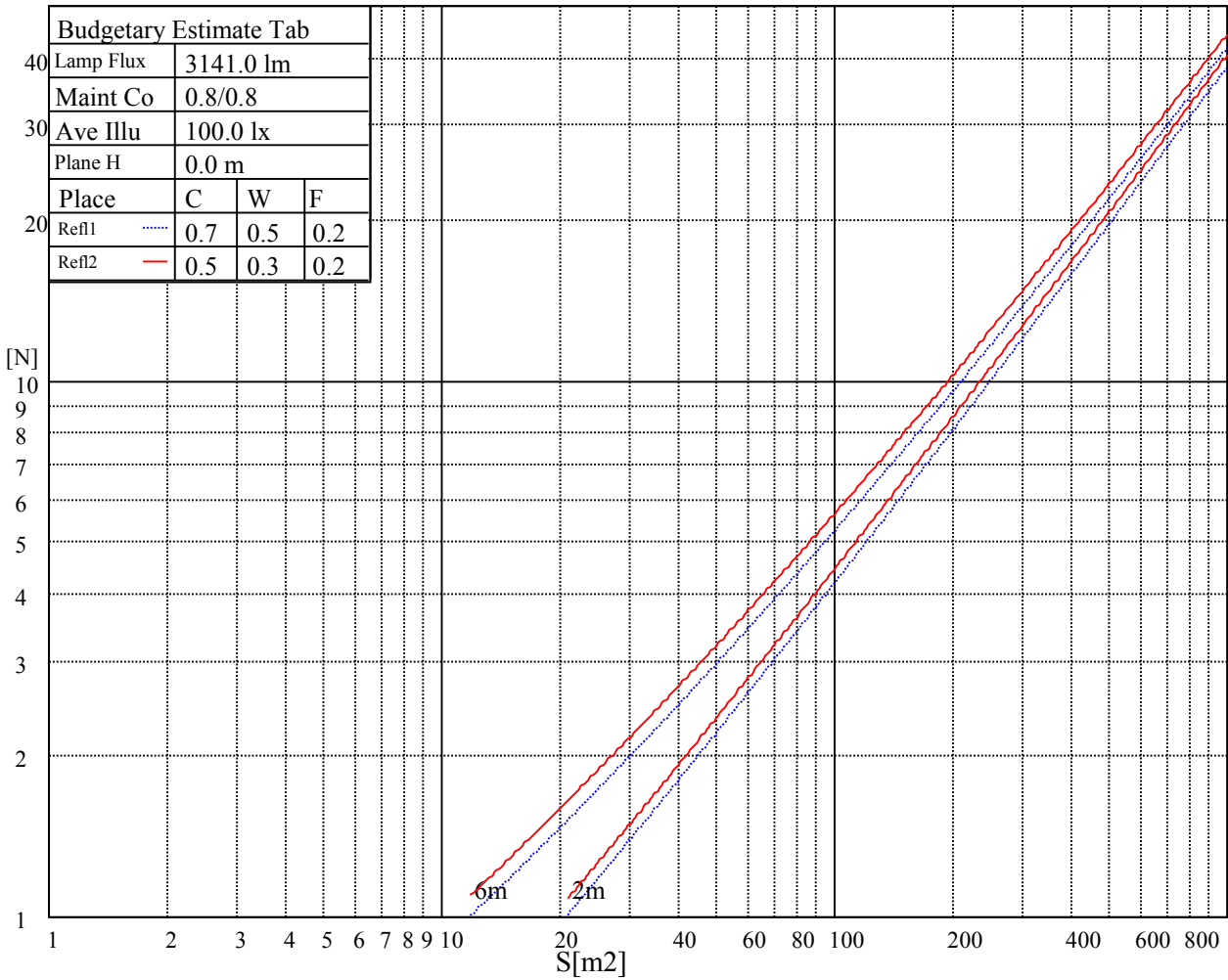
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

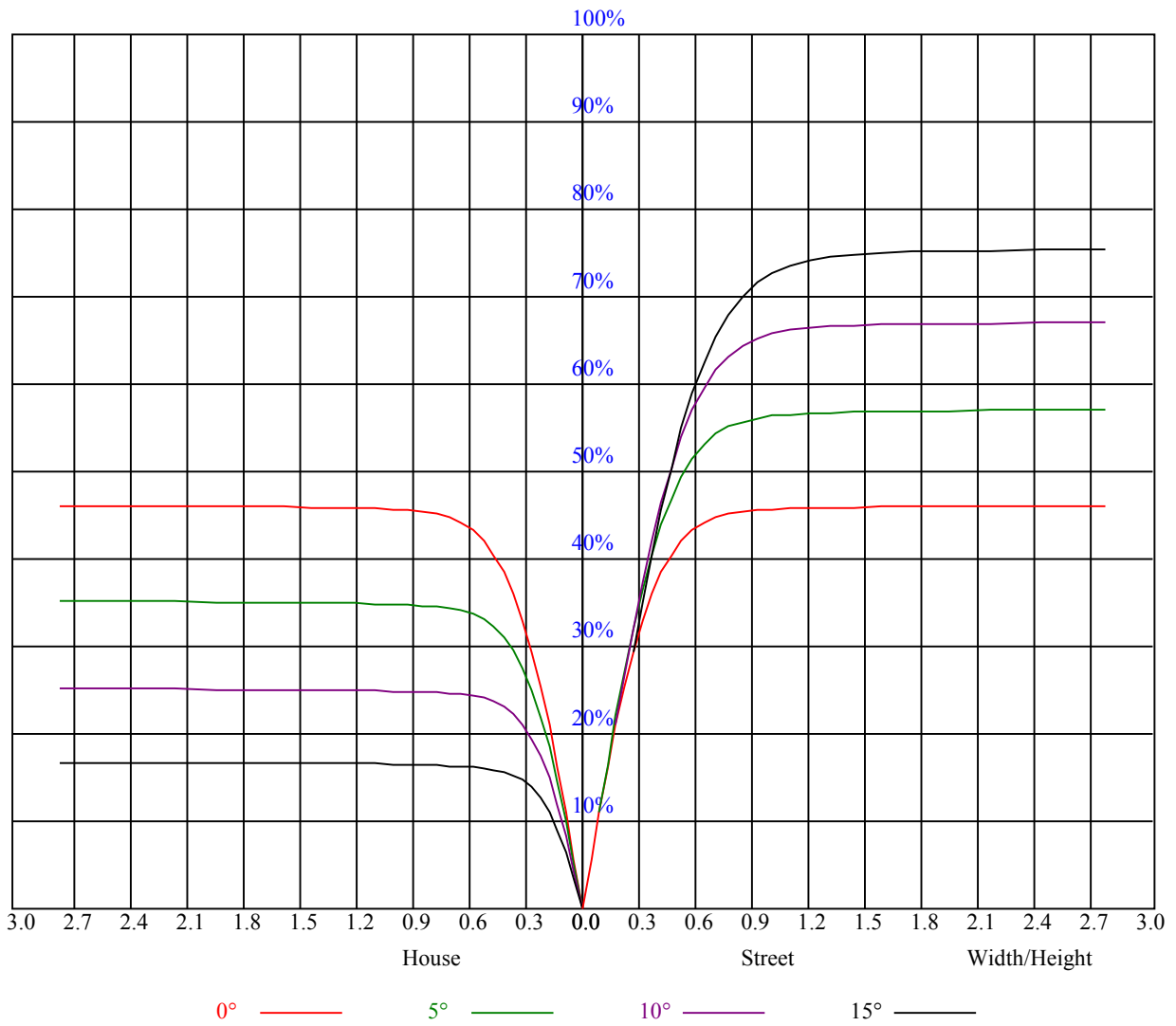


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	
	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	
8H	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	
12H	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				

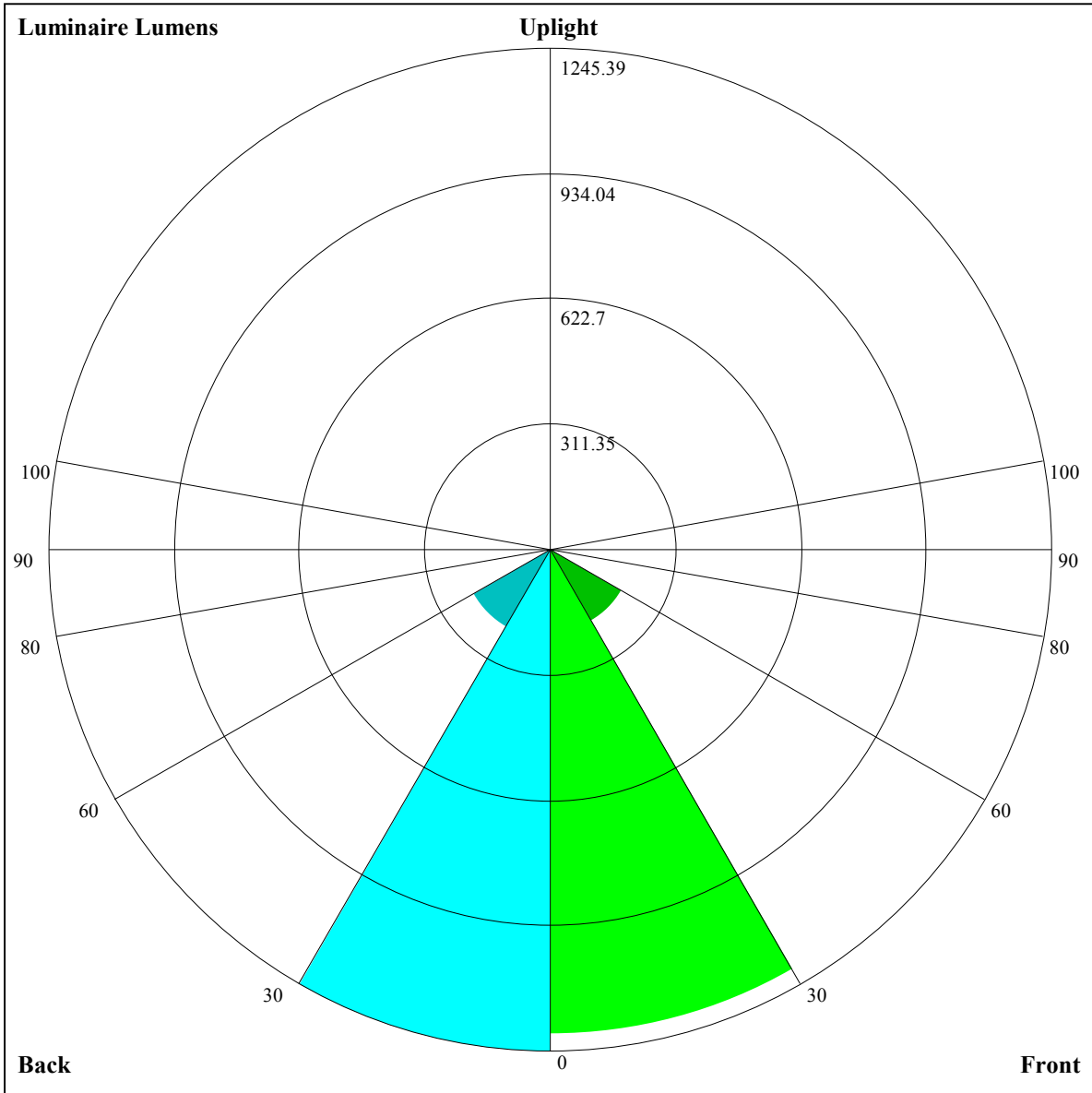
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	1.10	1.10	1.10	1.08	1.08	1.08	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.01	0.99	1.01	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.87
2	0.97	0.93	0.91	0.95	0.92	0.90	0.92	0.90	0.88	0.90	0.88	0.86	0.87	0.85	0.84	0.83
3	0.91	0.87	0.84	0.90	0.86	0.83	0.88	0.85	0.82	0.85	0.83	0.81	0.83	0.81	0.79	0.78
4	0.86	0.82	0.78	0.85	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.76	0.80	0.77	0.75	0.74
5	0.82	0.77	0.74	0.81	0.77	0.73	0.79	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.71	0.70
6	0.78	0.73	0.69	0.77	0.72	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.67
7	0.74	0.69	0.66	0.73	0.69	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.64	0.63
8	0.71	0.66	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.60
9	0.67	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.65	0.61	0.59	0.58
10	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.55







Luminaire Lumens:

FL=1205.11,FM=205.96,FH=11.24,FVH=1.64

BL=1245.39,BM=221.81,BH=10.56,BVH=1.52

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	5834.91	5807.58	5738.51	5695.62	5605.90	5414.78	5318.96	5151.81	4986.92
45.0	5871.65	5847.74	5817.09	5749.08	5666.66	5569.68	5449.89	5297.25	5138.98
90.0	5834.33	5790.34	5720.11	5643.22	5591.97	5449.89	5232.60	5122.27	4950.70
135.0	5896.72	5859.40	5837.70	5756.33	5716.22	5641.01	5525.11	5382.51	5236.49
180.0	5834.91	5855.52	5828.24	5807.58	5750.23	5691.15	5604.21	5498.93	5365.79
225.0	5871.65	5864.45	5837.12	5771.94	5720.11	5605.37	5516.22	5385.82	5219.77
270.0	5834.33	5870.55	5892.83	5872.23	5826.55	5754.12	5674.44	5558.54	5432.65
315.0	5896.72	5887.26	5861.09	5804.79	5716.22	5628.18	5497.83	5353.49	5183.03
360.0	5834.91	5807.58	5738.51	5695.62	5605.90	5414.78	5318.96	5151.81	4986.92
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4799.11	4623.08	4418.61	4222.45	4003.53	3791.23	3575.04	3365.58	3175.56
45.0	4947.34	4758.48	4564.00	4357.33	4152.28	3942.77	3734.93	3611.83	3319.32
90.0	4768.47	4579.61	4384.61	4170.68	3959.48	3753.91	3544.97	3330.99	3140.45
135.0	5069.92	4891.05	4702.77	4497.14	4299.35	4112.17	3922.16	3712.65	3493.15
180.0	5204.74	5033.70	4850.94	4651.47	4447.58	4254.78	4058.09	3865.87	3658.61
225.0	5046.53	4849.84	4652.04	4452.04	4254.78	4046.42	3836.90	3640.79	3438.01
270.0	5281.64	5099.98	4915.59	4740.61	4546.76	4359.53	4161.74	3956.69	3756.12
315.0	5001.37	4825.87	4626.97	4426.39	4228.02	4029.13	3834.12	3635.80	3425.71
360.0	4799.11	4623.08	4418.61	4222.45	4003.53	3791.23	3575.04	3365.58	3175.56
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3003.95	2832.33	2660.77	2484.68	2308.07	2134.77	1998.85	1832.80	1641.68
45.0	3123.74	3003.95	2806.15	2608.36	2411.67	2216.67	2035.06	1865.13	1702.97
90.0	2943.24	2740.98	2537.03	2344.29	2154.85	1975.46	1797.16	1696.30	1531.93
135.0	3275.85	3071.91	2959.95	2683.58	2494.14	2379.40	2184.39	2004.42	1831.12
180.0	3447.47	3319.32	3113.17	2921.48	2727.63	2525.89	2336.46	2154.27	1977.66
225.0	3233.49	3037.38	2839.58	2640.69	2439.01	2247.31	2067.91	1961.53	1732.51
270.0	3591.75	3372.25	3137.14	2991.70	2815.09	2618.98	2440.69	2260.71	2084.63
315.0	3276.96	3051.31	2877.48	2727.05	2544.87	2364.31	2188.28	2014.98	1856.77
360.0	3003.95	2832.33	2660.77	2484.68	2308.07	2134.77	1998.85	1832.80	1641.68
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1512.43	1281.79	1099.34	1033.22	871.12	720.42	592.48	486.73	399.32
45.0	1546.44	1389.86	1234.43	1079.53	922.42	772.51	635.48	520.11	428.75
90.0	1095.77	1031.28	1031.28	872.38	724.94	593.01	487.73	403.21	332.51
135.0	1663.97	1496.30	1329.67	1165.89	1003.21	842.16	692.83	563.58	462.76
180.0	1812.72	1647.26	1486.78	1322.42	1162.00	1003.21	844.94	697.87	568.04
225.0	1572.62	1478.43	1261.13	1054.35	1024.60	868.65	716.48	584.44	480.42
270.0	1915.80	1743.66	1578.19	1420.50	1258.35	1100.13	940.24	780.87	633.22
315.0	1695.72	1529.15	1368.15	1043.68	1043.68	874.59	781.55	595.32	530.36
360.0	1512.43	1281.79	1099.34	1033.22	871.12	720.42	592.48	486.73	399.32
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	329.15	273.11	225.81	201.00	152.38	125.20	111.43	92.19	76.58
45.0	354.11	293.93	293.93	238.00	172.25	142.60	117.69	97.24	80.00
90.0	275.69	228.49	188.12	154.48	137.03	103.55	84.99	75.53	58.24
135.0	385.28	319.00	295.61	241.31	186.91	153.54	116.27	102.76	84.10
180.0	467.18	390.33	325.10	281.10	281.10	194.43	161.58	133.77	110.85
225.0	399.21	333.30	278.06	231.80	200.05	159.58	136.45	112.43	89.04
270.0	519.00	429.33	355.22	292.25	292.25	281.68	174.51	142.76	116.43
315.0	437.74	332.41	294.98	242.42	200.00	163.73	133.93	109.65	90.09
360.0	329.15	273.11	225.81	201.00	152.38	125.20	111.43	92.19	76.58

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	64.65	55.56	48.67	43.47	39.11	35.43	32.43	29.75	27.49
45.0	66.86	56.56	49.20	43.36	38.53	34.64	31.54	29.86	26.81
90.0	52.88	45.73	40.05	35.53	31.64	28.44	26.07	23.97	22.13
135.0	69.38	58.03	49.57	43.31	38.21	34.06	30.64	27.70	25.34
180.0	91.41	75.85	64.13	54.98	48.20	43.00	38.95	35.27	32.01
225.0	76.48	64.23	54.93	47.73	42.10	37.53	33.59	30.33	27.86
270.0	94.72	77.69	64.55	54.45	46.73	40.74	35.90	32.17	29.01
315.0	74.69	63.02	54.09	47.31	41.94	37.79	34.22	31.27	28.80
360.0	64.65	55.56	48.67	43.47	39.11	35.43	32.43	29.75	27.49
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	25.60	24.13	22.76	21.55	20.60	19.66	18.82	18.03	17.40
45.0	25.12	23.86	21.87	21.03	19.87	18.82	18.19	17.66	17.24
90.0	20.45	19.13	17.87	16.82	16.03	15.45	14.93	14.30	13.67
135.0	23.39	21.71	20.55	19.45	18.40	17.82	16.77	16.29	15.87
180.0	29.33	27.17	25.39	24.44	23.07	21.18	20.34	19.13	18.08
225.0	25.65	23.71	21.97	20.39	18.92	17.66	16.61	15.98	14.98
270.0	26.49	24.49	22.71	21.39	19.50	18.40	17.19	16.19	15.30
315.0	26.65	24.81	23.60	22.29	20.66	19.71	18.71	17.82	17.03
360.0	25.60	24.13	22.76	21.55	20.60	19.66	18.82	18.03	17.40
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	16.87	16.24	15.61	14.93	14.19	13.40	12.67	11.83	10.83
45.0	16.66	16.29	16.19	15.82	15.51	14.98	13.98	13.25	12.56
90.0	13.30	12.98	12.40	12.19	11.83	11.46	11.20	10.78	10.41
135.0	14.82	14.56	13.93	13.30	12.62	11.72	10.99	10.35	9.78
180.0	17.08	16.08	15.09	14.03	13.14	12.35	11.46	10.57	9.72
225.0	14.14	13.61	12.56	12.09	11.41	10.62	9.88	9.36	8.83
270.0	14.56	14.03	13.25	12.56	11.98	11.35	10.67	10.09	9.57
315.0	16.19	15.30	14.40	13.77	13.09	12.25	11.51	10.83	10.25
360.0	16.87	16.24	15.61	14.93	14.19	13.40	12.67	11.83	10.83
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.93	8.99	8.25	7.41	6.78	6.36	5.83	5.26	4.84
45.0	11.25	10.04	8.30	7.52	7.04	6.25	5.99	5.52	4.94
90.0	9.36	8.52	7.41	6.52	5.94	5.57	4.99	4.52	4.05
135.0	9.25	8.67	8.20	7.73	7.10	6.57	6.10	5.73	5.15
180.0	8.99	8.41	7.83	7.46	6.99	6.25	5.89	5.47	4.94
225.0	8.30	7.73	7.31	6.83	6.36	5.83	5.31	4.94	4.52
270.0	9.04	8.52	7.99	7.57	7.10	6.57	6.25	5.62	5.15
315.0	9.62	9.15	8.62	8.09	7.46	6.89	6.62	5.94	5.62
360.0	9.93	8.99	8.25	7.41	6.78	6.36	5.83	5.26	4.84
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.47	3.99	3.63	3.10	2.79	2.63	2.31	2.05	1.89
45.0	4.52	3.89	3.63	3.05	2.84	2.42	2.16	2.00	1.79
90.0	3.68	3.31	2.94	2.52	2.31	2.10	1.94	1.73	1.79
135.0	4.52	4.05	3.73	3.21	2.79	2.47	2.16	1.79	1.42
180.0	4.52	3.94	3.42	3.10	2.68	2.26	2.00	1.68	1.42
225.0	3.94	3.63	3.15	2.79	2.37	2.05	1.89	1.58	1.26
270.0	4.94	4.21	3.84	3.36	2.89	2.52	2.16	1.89	1.68
315.0	4.89	4.52	4.05	3.68	3.21	2.84	2.52	2.31	2.05
360.0	4.47	3.99	3.63	3.10	2.79	2.63	2.31	2.05	1.89

Intensity data(cd)

C/ $\gamma$ ( $^{\circ}$ )	90.0
0.0	1.84
45.0	1.79
90.0	1.79
135.0	1.37
180.0	1.10
225.0	1.16
270.0	1.42
315.0	1.84
360.0	1.84