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## Nata

Client:

LumCAT: 2-2763-L

Luminaire: 92.70.412.00

Report No: 2024819-B017

Ballast type: AC

Test No: 2024819-C017

Voltage(V): 36.800

LampCAT: CREE CXA1830 LES14

Current(A): 0.795

Lamp flux(lm): 3681.0

Power (W): 29.250

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

Lumens(lm): 3422.12, Efficiency(%): 92.97% , Luminous Efficacy(lm/W): 117.00

Central intensity(cd): 5056.407, Maximum intensity(cd): 5056.407

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

Beam Angle(50%Imax): [C0/180]Total=50.2

[C90/270]Total=50.2

Field angle(10%Imax): [C0/180]Total=74.0

[C90/270]Total=74.0

Maximum s/h(1/2): C0\_180=0.79 C90\_270=0.79

Maximum s/h(1/4): C0\_180=0.77 C90\_270=0.77

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 92.97%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.906%

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Equipment: GMS 1800  
Temperature(°C): 25.0

Date: 2024/8/19  
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	5056.407	0.000	0	0.00%	0.00%
1.0	5054.180	4.838	4.838	0.13%	0.14%
2.0	5047.551	14.499	19.337	0.39%	0.57%
3.0	5032.511	24.108	43.445	0.65%	1.27%
4.0	5015.593	33.634	77.079	0.91%	2.25%
5.0	4994.837	43.064	120.143	1.17%	3.51%
6.0	4966.282	52.348	172.492	1.42%	5.04%
7.0	4925.415	61.398	233.889	1.67%	6.83%
8.0	4875.678	70.145	304.034	1.91%	8.88%
9.0	4815.500	78.542	382.576	2.13%	11.18%
10.0	4738.536	86.461	469.036	2.35%	13.71%
11.0	4646.689	93.778	562.814	2.55%	16.45%
12.0	4546.177	100.491	663.305	2.73%	19.38%
13.0	4427.366	106.493	769.798	2.89%	22.49%
14.0	4300.552	111.717	881.515	3.03%	25.76%
15.0	4163.830	116.203	997.718	3.16%	29.15%
16.0	4032.411	120.098	1117.816	3.26%	32.66%
17.0	3875.151	123.142	1240.958	3.35%	36.26%
18.0	3727.378	125.349	1366.307	3.41%	39.93%
19.0	3570.735	126.972	1493.279	3.45%	43.64%
20.0	3405.682	127.688	1620.967	3.47%	47.37%
21.0	3246.050	127.727	1748.694	3.47%	51.10%
22.0	3091.365	127.353	1876.047	3.46%	54.82%
23.0	2897.271	125.658	2001.704	3.41%	58.49%
24.0	2732.409	123.085	2124.789	3.34%	62.09%
25.0	2553.979	120.201	2244.99	3.27%	65.60%
26.0	2361.758	116.037	2361.027	3.15%	68.99%
27.0	2160.628	110.641	2471.668	3.01%	72.23%
28.0	1974.681	104.697	2576.365	2.84%	75.29%
29.0	1713.406	96.491	2672.856	2.62%	78.11%
30.0	1566.106	88.546	2761.402	2.41%	80.69%
31.0	1354.490	81.276	2842.678	2.21%	83.07%
32.0	1156.211	71.929	2914.607	1.95%	85.17%
33.0	1001.907	63.579	2978.186	1.73%	87.03%
34.0	855.573	56.213	3034.398	1.53%	88.67%
35.0	723.444	49.038	3083.437	1.33%	90.10%
36.0	604.745	42.290	3125.727	1.15%	91.34%
37.0	501.091	36.066	3161.793	0.98%	92.39%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	423.568	30.864	3192.657	0.84%	93.29%
39.0	364.442	26.897	3219.554	0.73%	94.08%
40.0	308.976	23.486	3243.04	0.64%	94.77%
41.0	252.182	19.983	3263.023	0.54%	95.35%
42.0	208.345	16.732	3279.754	0.45%	95.84%
43.0	179.803	14.378	3294.132	0.39%	96.26%
44.0	161.078	12.866	3306.998	0.35%	96.64%
45.0	119.882	10.798	3317.796	0.29%	96.95%
46.0	100.572	8.621	3326.417	0.23%	97.20%
47.0	85.493	7.400	3333.818	0.20%	97.42%
48.0	73.706	6.436	3340.253	0.17%	97.61%
49.0	64.402	5.671	3345.925	0.15%	97.77%
50.0	57.017	5.062	3350.987	0.14%	97.92%
51.0	51.137	4.576	3355.563	0.12%	98.06%
52.0	46.340	4.183	3359.746	0.11%	98.18%
53.0	42.333	3.857	3363.603	0.10%	98.29%
54.0	39.080	3.588	3367.191	0.10%	98.39%
55.0	36.064	3.354	3370.546	0.09%	98.49%
56.0	33.541	3.145	3373.691	0.09%	98.58%
57.0	31.511	2.974	3376.665	0.08%	98.67%
58.0	29.264	2.810	3379.476	0.08%	98.75%
59.0	27.654	2.661	3382.137	0.07%	98.83%
60.0	26.248	2.547	3384.683	0.07%	98.91%
61.0	24.855	2.439	3387.122	0.07%	98.98%
62.0	23.574	2.334	3389.456	0.06%	99.05%
63.0	22.549	2.243	3391.699	0.06%	99.11%
64.0	21.511	2.162	3393.861	0.06%	99.17%
65.0	20.578	2.083	3395.944	0.06%	99.24%
66.0	19.704	2.010	3397.954	0.05%	99.29%
67.0	18.863	1.939	3399.893	0.05%	99.35%
68.0	18.082	1.872	3401.765	0.05%	99.41%
69.0	17.254	1.803	3403.567	0.05%	99.46%
70.0	16.445	1.731	3405.298	0.05%	99.51%
71.0	15.657	1.659	3406.957	0.05%	99.56%
72.0	14.573	1.572	3408.529	0.04%	99.60%
73.0	13.351	1.460	3409.989	0.04%	99.65%
74.0	12.293	1.348	3411.337	0.04%	99.68%
75.0	11.393	1.251	3412.589	0.03%	99.72%

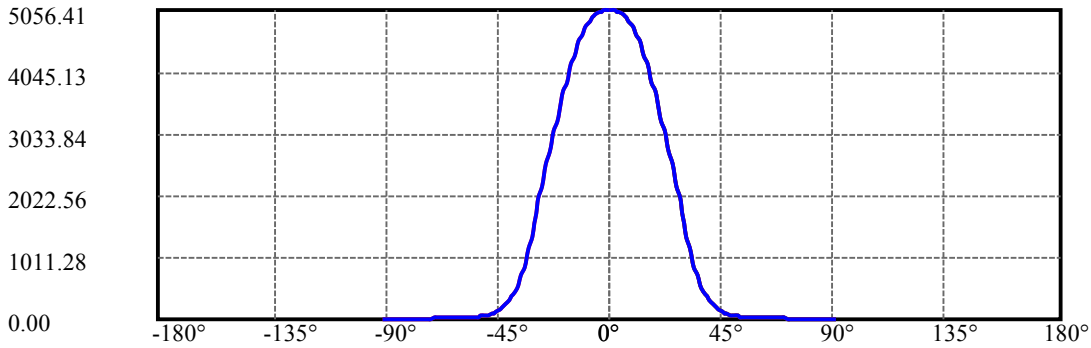
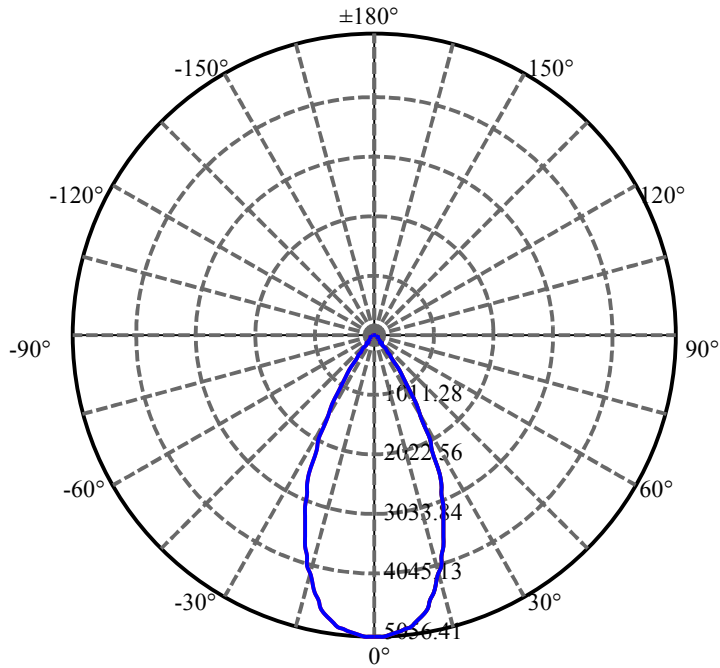
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.558	1.165	3413.754	0.03%	99.76%
77.0	9.704	1.080	3414.835	0.03%	99.79%
78.0	8.922	0.997	3415.832	0.03%	99.82%
79.0	8.134	0.916	3416.748	0.02%	99.84%
80.0	7.339	0.834	3417.582	0.02%	99.87%
81.0	6.636	0.756	3418.338	0.02%	99.89%
82.0	5.920	0.681	3419.019	0.02%	99.91%
83.0	5.243	0.607	3419.626	0.02%	99.93%
84.0	4.586	0.535	3420.161	0.01%	99.94%
85.0	3.909	0.464	3420.625	0.01%	99.96%
86.0	3.410	0.400	3421.025	0.01%	99.97%
87.0	2.904	0.346	3421.371	0.01%	99.98%
88.0	2.424	0.292	3421.662	0.01%	99.99%
89.0	2.050	0.245	3421.908	0.01%	99.99%
90.0	1.800	0.211	3422.119	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2761.40	75.02%	80.69%
0-40	3243.04	88.10%	94.77%
0-60	3384.68	91.95%	98.91%
0-90	3421.91	92.96%	99.99%
0-120	3421.91	92.96%	99.99%
0-180	3422.12	92.97%	100.00%
60-90	37.22	1.01%	1.09%
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%
0-29.73	2737.70	74.37%	80.00%

ZONAL LUMEN SUMMARY

0-10	469.04
10-20	1151.93
20-30	1140.44
30-40	481.64
40-50	107.95
50-60	33.70
60-70	20.61
70-80	12.28
80-90	4.33
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: —————

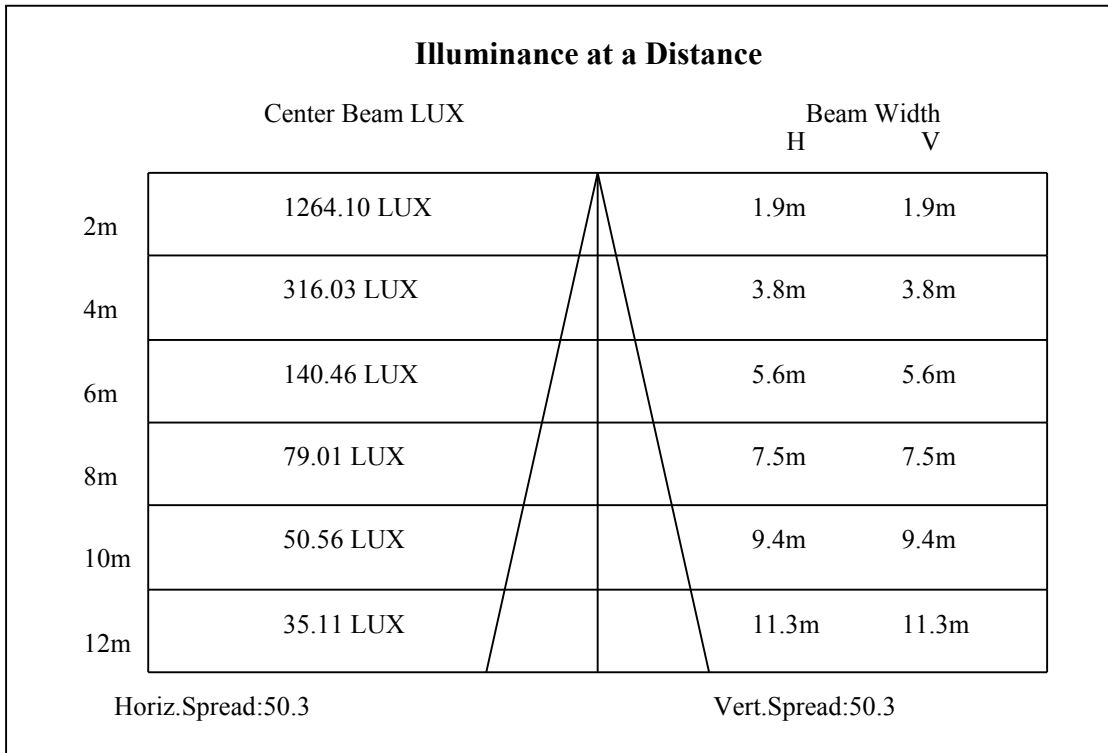
C90/C270: —————

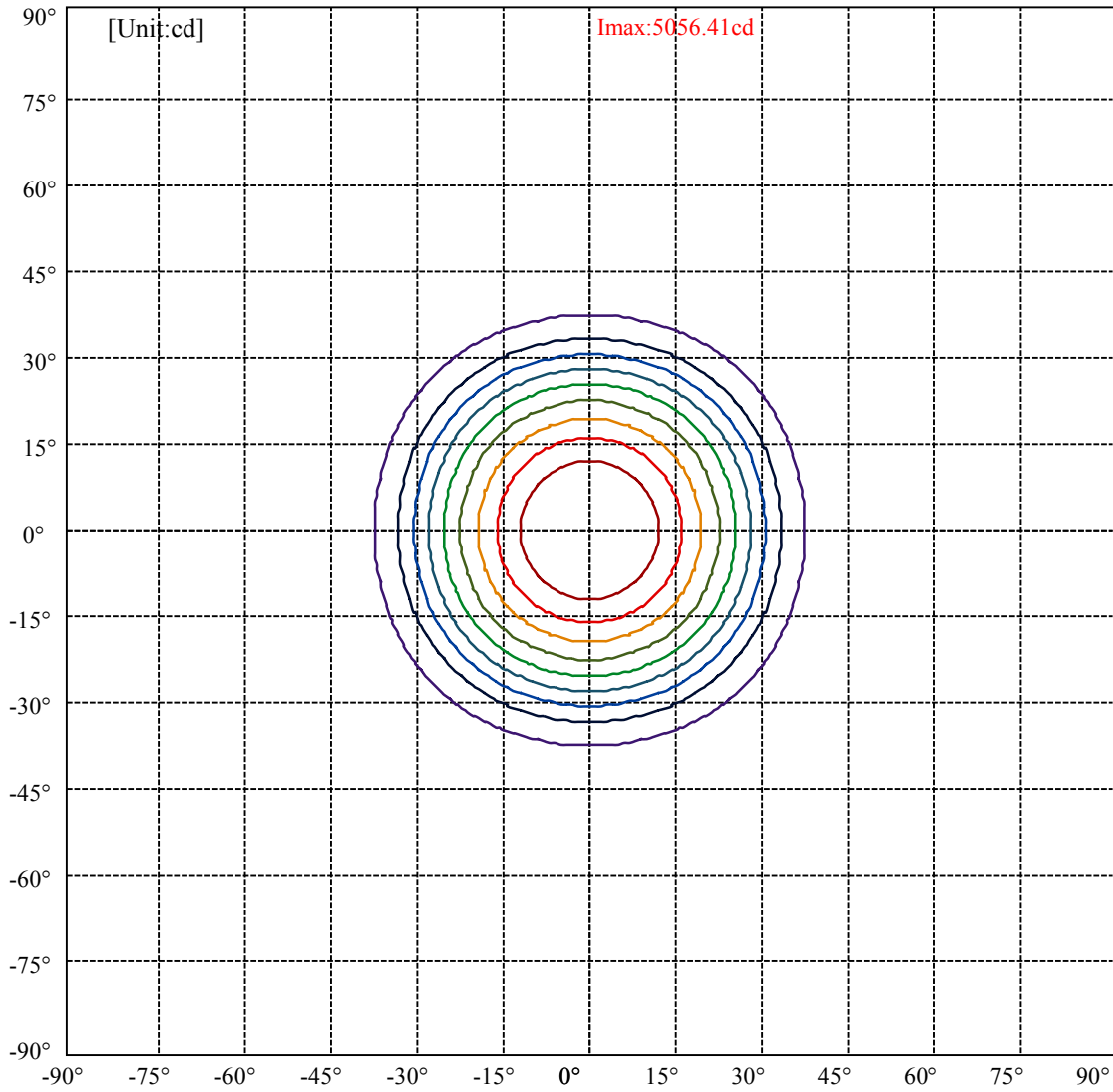
Field angle(10%Imax):C0/180Left:37.0 Right:37.0

:C90/270Left:37.0 Right:37.0

Beam Angle(50%Imax):C0/180Left:25.1 Right:25.1

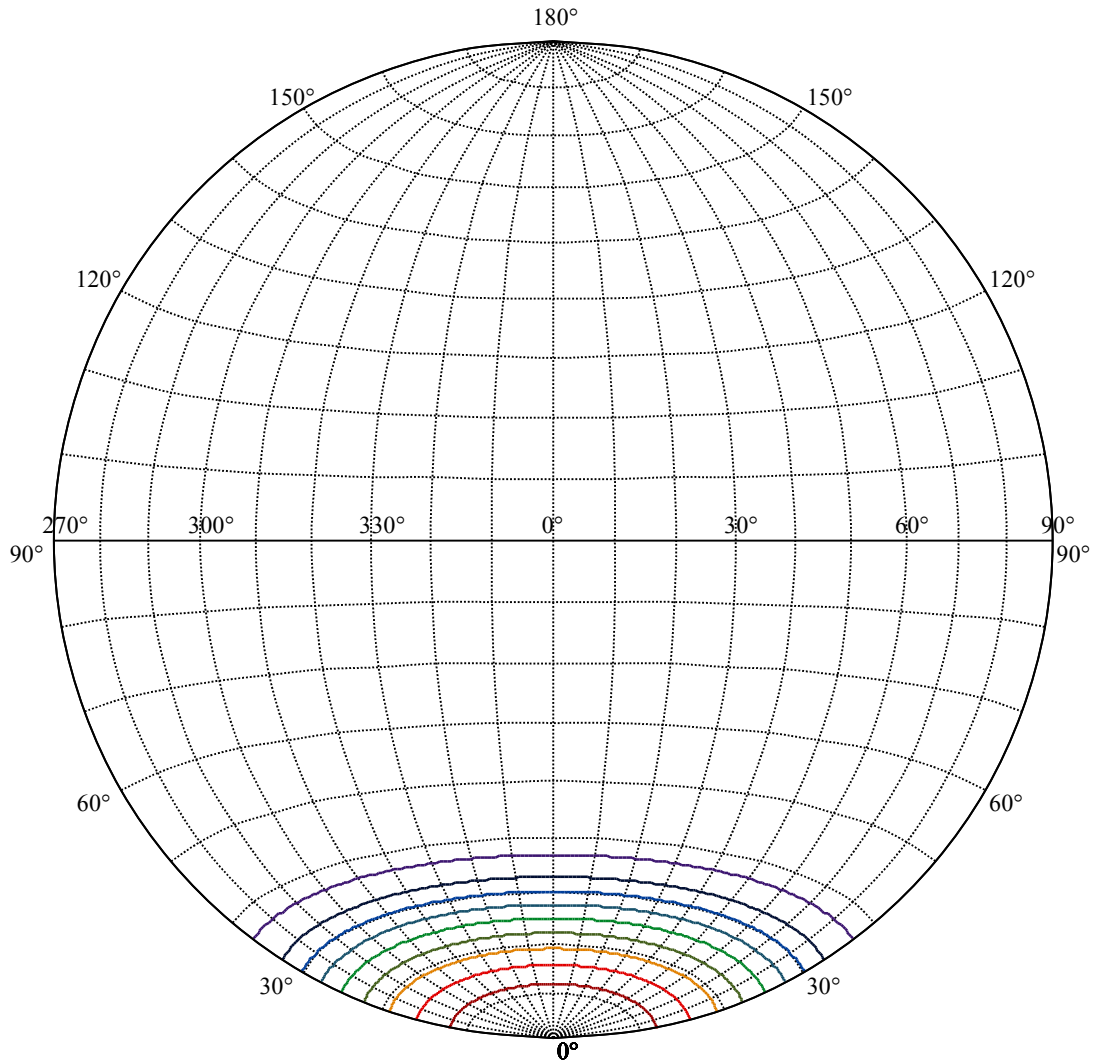
:C90/270Left:25.1 Right:25.1





(10%Imax) 505.641	—
(20%Imax) 1011.28	—
(30%Imax) 1516.92	—
(40%Imax) 2022.56	—
(50%Imax) 2528.2	—
(60%Imax) 3033.84	—
(70%Imax) 3539.49	—
(80%Imax) 4045.13	—
(90%Imax) 4550.77	—





House

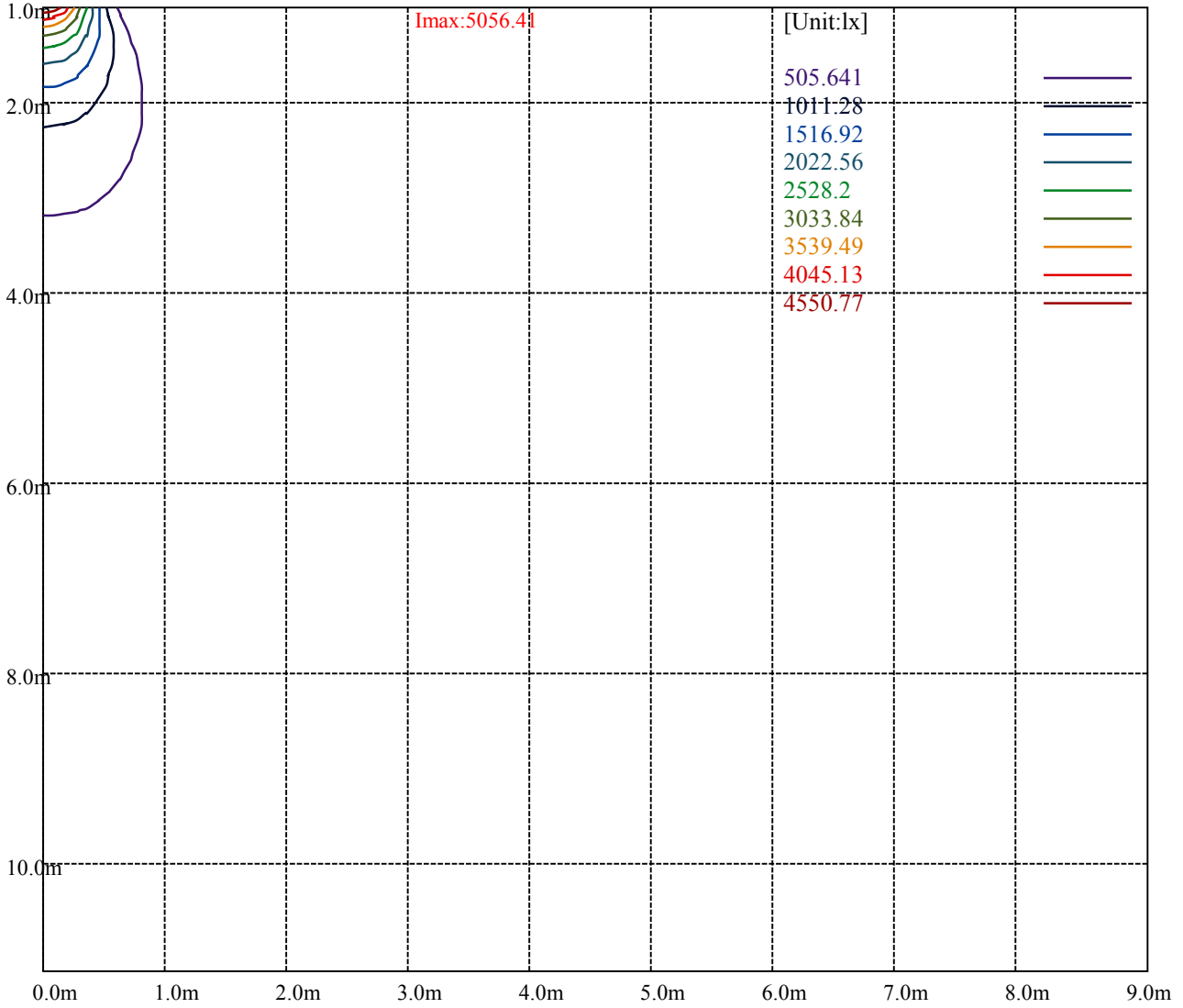
[Unit:cd]

Road

**Imax:5056.41**

(10%Imax) 505.641	—
(20%Imax) 1011.28	—
(30%Imax) 1516.92	—
(40%Imax) 2022.56	—
(50%Imax) 2528.2	—
(60%Imax) 3033.84	—
(70%Imax) 3539.49	—
(80%Imax) 4045.13	—
(90%Imax) 4550.77	—





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

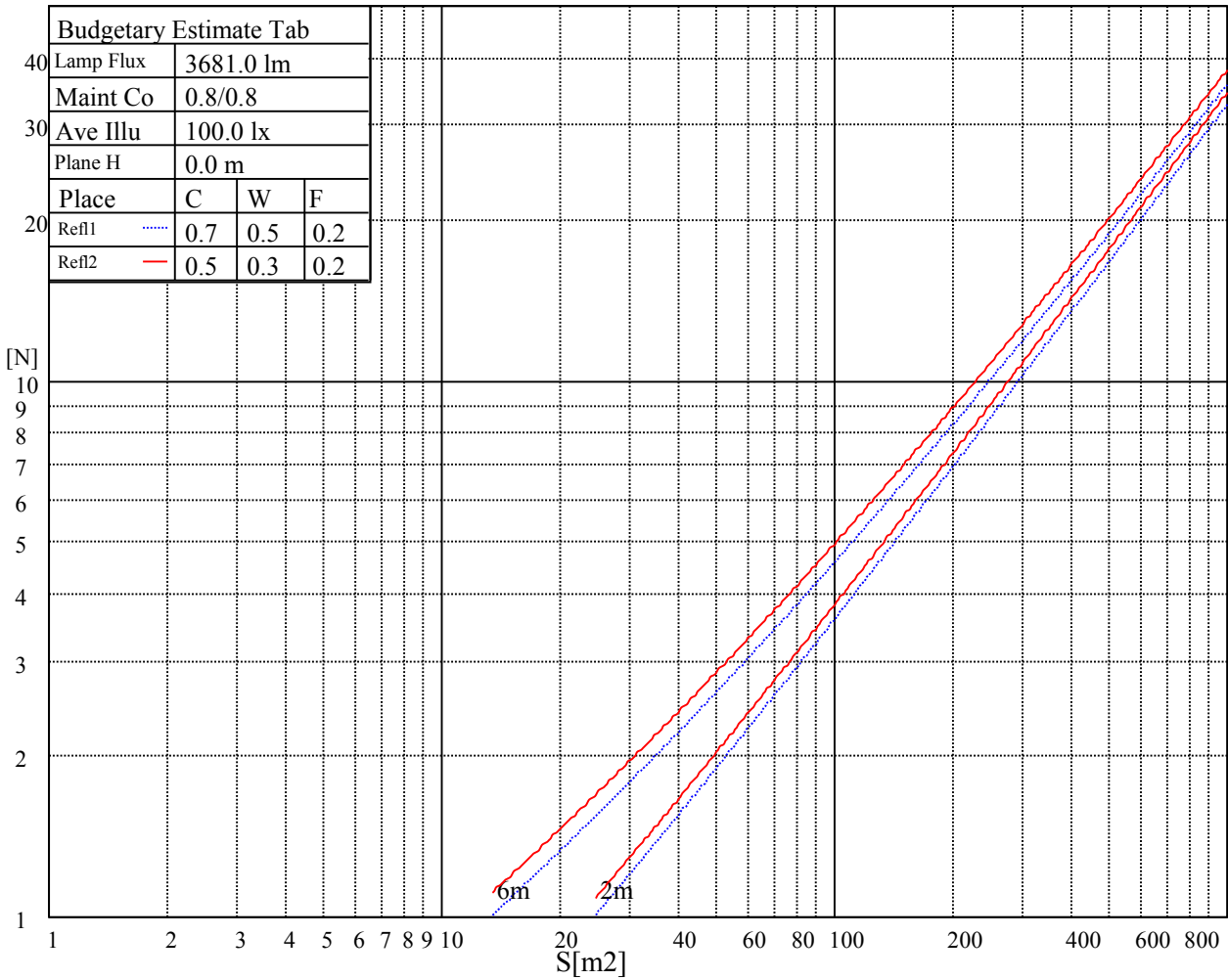
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

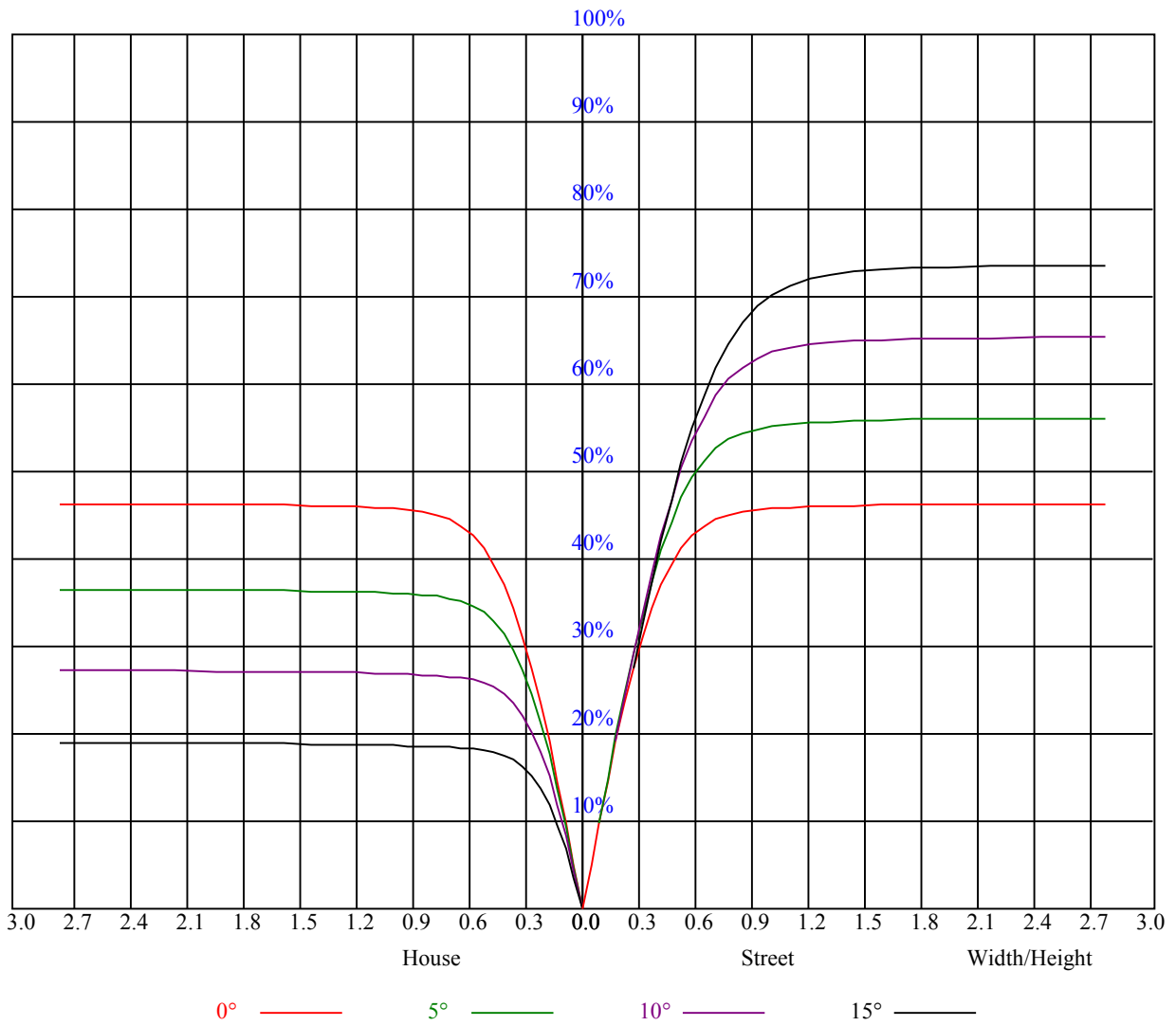


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字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

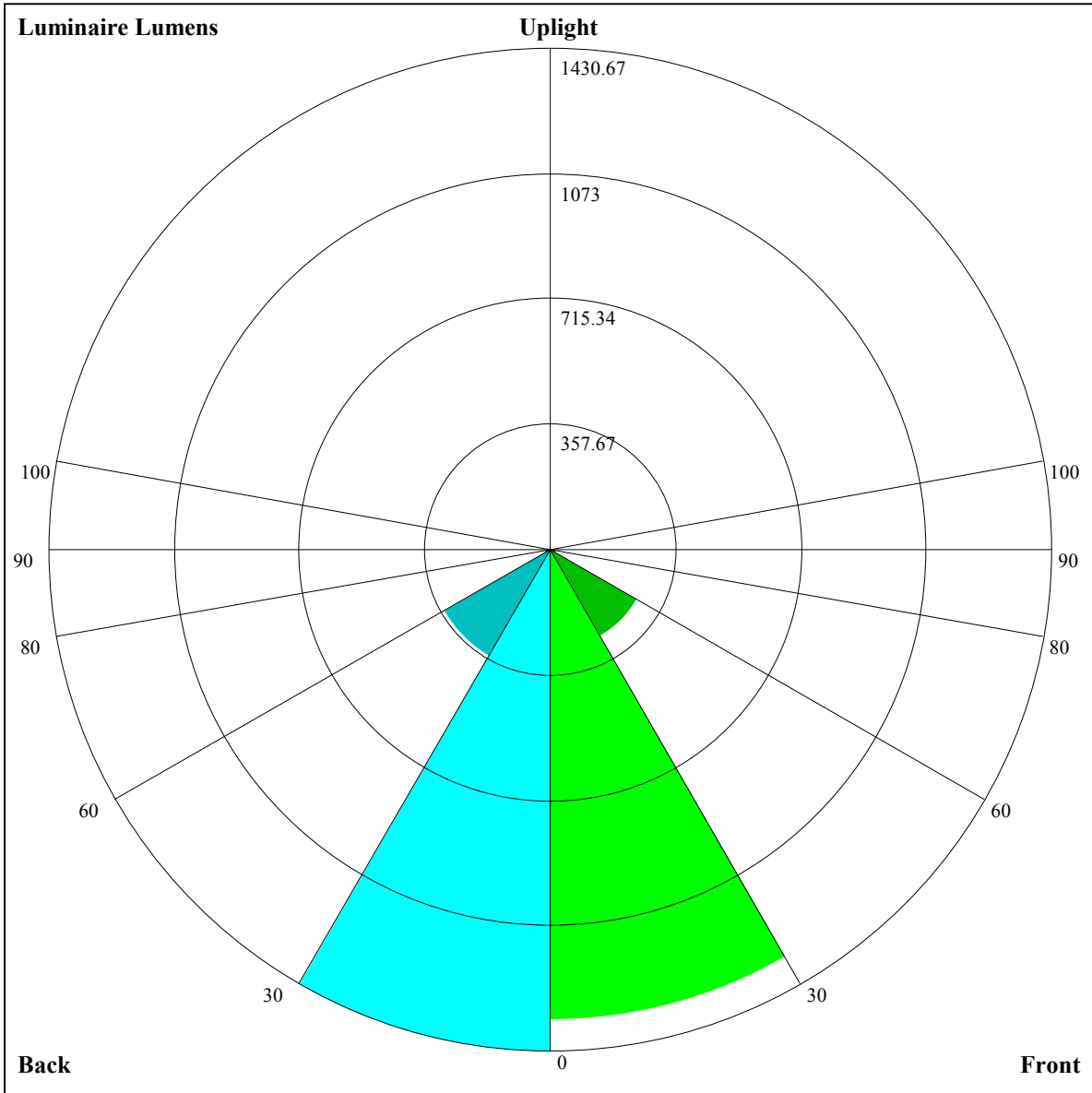
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	1.11	1.11	1.11	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.03	1.01	0.99	1.01	0.99	0.98	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.87
2	0.97	0.93	0.90	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.84	0.82
3	0.91	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.80	0.78	0.77
4	0.85	0.81	0.77	0.84	0.80	0.76	0.82	0.79	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.72
5	0.80	0.75	0.72	0.80	0.75	0.71	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.68
6	0.76	0.71	0.67	0.75	0.71	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.64
7	0.72	0.67	0.63	0.71	0.67	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.61
8	0.68	0.63	0.60	0.68	0.63	0.60	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.58
9	0.65	0.60	0.56	0.65	0.60	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.55
10	0.62	0.57	0.54	0.62	0.57	0.54	0.61	0.56	0.53	0.60	0.56	0.53	0.59	0.56	0.53	0.52







Luminaire Lumens:

FL=1342.59,FM=287.94,FH=15.99,FVH=2.1

BL=1430.67,BM=349.17,BH=16.93,BVH=2.43

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	5073.28	5052.62	5016.41	5000.85	4952.33	4882.69	4845.95	4775.20	4691.05
45.0	5058.19	5051.52	5036.49	5004.74	4979.09	4916.70	4868.23	4797.48	4716.70
90.0	5029.81	5011.99	4989.13	4962.37	4929.52	4908.34	4855.41	4781.30	4702.77
135.0	5064.34	5037.06	5025.92	4994.12	4982.45	4970.20	4932.31	4907.24	4853.73
180.0	5073.28	5059.35	5043.16	5033.70	5019.77	5013.62	4991.34	4957.38	4922.27
225.0	5058.19	5065.45	5088.84	5084.95	5072.70	5066.03	5049.84	5010.31	4981.87
270.0	5029.81	5057.09	5077.70	5083.27	5103.35	5122.27	5131.78	5131.78	5128.42
315.0	5064.34	5098.35	5102.77	5096.09	5085.53	5078.85	5055.41	5042.64	5008.63
360.0	5073.28	5052.62	5016.41	5000.85	4952.33	4882.69	4845.95	4775.20	4691.05
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4593.54	4477.64	4341.72	4204.63	4055.88	3903.24	3742.19	3577.82	3412.94
45.0	4618.04	4526.68	4410.26	4285.42	4136.09	4003.53	3863.66	3777.30	3551.07
90.0	4626.97	4526.10	4403.00	4277.06	4145.03	3991.81	3828.55	3669.76	3522.11
135.0	4789.13	4723.37	4655.93	4565.11	4449.26	4335.57	4211.89	4070.39	3927.73
180.0	4874.91	4814.73	4748.44	4673.75	4580.72	4480.43	4367.89	4257.56	4127.21
225.0	4946.76	4874.91	4786.34	4690.47	4573.46	4443.69	4306.60	4172.88	4023.55
270.0	5131.78	5108.34	5055.41	4995.28	4916.70	4819.19	4699.98	4571.26	4433.65
315.0	4942.87	4856.51	4772.41	4677.69	4561.79	4426.97	4289.89	4162.32	4002.95
360.0	4593.54	4477.64	4341.72	4204.63	4055.88	3903.24	3742.19	3577.82	3412.94
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3247.99	3079.16	2911.49	2752.70	2656.82	2410.04	2305.29	2126.42	1939.77
45.0	3385.08	3283.11	3117.64	2954.38	2788.91	2613.41	2423.39	2232.86	2040.06
90.0	3365.58	3205.10	3028.49	2844.05	2651.25	2451.83	2258.45	2139.24	1938.66
135.0	3766.73	3605.68	3450.26	3288.68	3124.32	2986.71	2811.20	2595.01	2444.00
180.0	3978.46	3822.98	3670.33	3508.76	3383.40	3222.92	3060.24	2880.85	2703.66
225.0	3875.38	3708.23	3536.04	3368.36	3235.75	3029.02	2846.26	2701.98	2489.15
270.0	4298.25	4209.68	3985.13	3885.37	3711.54	3478.11	3374.46	3188.91	2987.23
315.0	3901.56	3651.94	3546.08	3366.10	3178.93	2986.13	2779.98	2566.57	2351.54
360.0	3247.99	3079.16	2911.49	2752.70	2656.82	2410.04	2305.29	2126.42	1939.77
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1759.27	1568.73	1108.70	1108.70	959.74	796.85	667.18	558.53	467.54
45.0	1858.45	1675.69	1484.58	1290.15	1099.03	920.16	761.95	630.43	526.26
90.0	1647.83	1524.15	1062.39	1062.39	960.37	807.15	674.48	563.47	470.85
135.0	2242.32	2037.85	1831.70	1626.65	1410.46	1204.31	1014.35	852.20	712.91
180.0	2517.01	2326.47	2137.56	1942.03	1749.81	1549.75	1342.50	1139.71	959.74
225.0	2337.61	2148.70	1960.95	1762.58	1577.09	1109.33	1069.02	993.12	823.71
270.0	2779.40	2573.83	2377.72	2183.24	1982.66	1765.36	1533.04	1306.28	1103.50
315.0	2143.13	1942.03	1743.66	1553.12	1096.77	1096.77	952.75	800.84	723.05
360.0	1759.27	1568.73	1108.70	1108.70	959.74	796.85	667.18	558.53	467.54
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	390.80	325.41	269.86	240.63	198.79	152.85	136.66	113.69	95.77
45.0	438.79	364.68	313.96	301.71	280.00	173.04	141.81	116.43	96.72
90.0	392.22	324.99	267.70	219.50	186.39	146.12	124.42	102.81	86.10
135.0	594.22	495.61	411.46	341.29	281.68	281.68	191.22	170.25	140.24
180.0	812.09	688.41	585.34	497.82	421.50	356.32	299.50	288.36	288.36
225.0	680.58	564.15	470.85	421.81	326.62	291.93	240.74	197.95	161.89
270.0	919.06	764.73	636.58	530.15	473.90	363.00	322.89	275.53	275.53
315.0	610.20	480.74	432.80	362.63	302.92	252.51	209.51	173.40	144.02
360.0	390.80	325.41	269.86	240.63	198.79	152.85	136.66	113.69	95.77

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	81.94	71.43	63.29	56.77	51.51	46.94	43.15	39.84	36.85
45.0	82.05	71.06	62.76	56.08	50.57	46.04	42.16	38.84	35.85
90.0	73.32	63.60	56.14	50.35	45.52	41.37	37.95	35.01	32.54
135.0	116.58	97.92	83.52	72.17	63.34	56.35	50.67	46.15	42.31
180.0	183.44	151.59	125.57	104.81	88.46	75.53	65.76	58.08	52.04
225.0	132.67	109.65	92.19	79.05	68.59	60.60	54.14	48.83	44.47
270.0	168.67	137.45	113.01	94.24	80.00	69.07	60.81	54.45	49.36
315.0	120.37	101.87	87.46	76.16	67.23	60.24	54.45	49.51	45.26
360.0	81.94	71.43	63.29	56.77	51.51	46.94	43.15	39.84	36.85
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	34.32	32.06	30.12	28.33	26.75	25.28	24.44	22.81	22.23
45.0	33.32	31.91	29.07	27.91	26.23	24.81	23.39	22.18	21.18
90.0	30.17	28.17	26.49	24.97	23.60	22.39	21.39	20.87	19.92
135.0	38.90	35.95	33.48	31.27	29.33	27.96	26.07	24.70	23.76
180.0	47.04	42.94	39.47	36.53	33.85	31.54	29.86	28.02	26.07
225.0	40.79	37.69	34.85	32.43	30.28	28.49	26.91	25.65	24.02
270.0	44.99	41.21	38.00	36.27	32.80	30.64	29.54	27.75	26.12
315.0	43.10	38.58	36.85	34.38	31.27	30.12	28.38	26.86	25.28
360.0	34.32	32.06	30.12	28.33	26.75	25.28	24.44	22.81	22.23
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.18	20.13	19.19	18.19	17.14	16.14	15.19	14.24	13.35
45.0	20.34	19.55	18.87	18.13	17.50	16.93	16.19	15.77	15.19
90.0	19.50	18.98	18.66	18.66	18.61	18.71	18.71	18.50	18.13
135.0	22.65	21.76	20.87	20.03	19.19	18.40	17.61	16.87	16.19
180.0	24.91	23.50	22.29	21.18	20.13	19.13	18.13	17.19	16.35
225.0	23.07	21.87	20.76	19.71	18.66	17.77	16.82	15.87	14.93
270.0	24.70	23.44	22.18	21.08	20.13	19.08	18.03	16.93	15.98
315.0	24.02	22.86	21.81	20.66	19.55	18.50	17.35	16.19	15.14
360.0	21.18	20.13	19.19	18.19	17.14	16.14	15.19	14.24	13.35
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.51	11.72	10.83	10.04	9.25	8.36	7.57	6.78	5.99
45.0	13.93	12.62	11.51	10.35	9.62	8.57	7.67	7.10	6.41
90.0	15.82	12.25	10.20	9.30	8.46	7.67	6.99	6.20	5.57
135.0	15.61	15.14	14.14	12.88	11.67	10.51	9.46	8.62	7.83
180.0	15.40	14.51	13.61	12.88	12.04	11.25	10.41	9.93	8.83
225.0	14.09	13.19	12.40	11.62	10.88	10.14	9.36	8.57	7.73
270.0	14.98	14.03	13.14	12.35	11.56	10.83	10.41	9.36	8.52
315.0	14.24	13.35	12.51	11.72	10.99	10.30	9.51	8.52	7.83
360.0	12.51	11.72	10.83	10.04	9.25	8.36	7.57	6.78	5.99
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.31	4.73	4.05	3.42	3.00	2.63	2.10	1.52	1.37
45.0	5.68	4.89	4.36	3.68	3.10	2.63	2.10	1.58	1.52
90.0	4.99	4.47	3.84	3.36	3.00	2.52	2.21	1.73	1.73
135.0	7.04	6.25	5.68	4.99	4.10	3.73	3.26	2.84	2.10
180.0	7.99	7.25	6.52	5.83	4.89	4.36	3.73	3.15	2.63
225.0	7.04	6.47	5.73	4.94	4.26	3.73	3.21	2.73	2.16
270.0	8.09	7.04	6.10	5.57	4.73	4.05	3.42	3.00	2.52
315.0	6.94	6.25	5.68	4.89	4.21	3.63	3.21	2.84	2.37
360.0	5.31	4.73	4.05	3.42	3.00	2.63	2.10	1.52	1.37

Intensity data(cd)

C/γ(°)	90.0
0.0	1.42
45.0	1.52
90.0	1.79
135.0	1.68
180.0	2.16
225.0	1.89
270.0	2.05
315.0	1.89
360.0	1.42