



NATA LIGHTING CO.,LTD
www.nata.cn
Email:info@nata.cn
Tel:+86 0750-377 0000(10 lines) Fax:+86 0750-377 1111
Address:380JinOu Road,Gaoxin Zone,Jiang Men City,Guangdong,China

Nata

Client: NT

LumCAT: 3-3013-LM

Luminaire: BJB 47.360.2050

Report No: 20251118-B009

Ballast type: DC

Test No: 20251118-C009

Voltage(V): 37.630

LampCAT: CREE CXA2540 LES19

Current(A): 1.095

Lamp flux(lm): 5903.0

Power (W): 41.200

Number of Lamps: 1

PF: 0.000

Length(mm): 85

Width(mm): 85

Phm Type: C

Height(mm): 51

Photometric Results

Lumens(lm): 5682.64, Efficiency(%): 96.27% , Luminous Efficacy(lm/W): 137.93

Central intensity(cd): 18320.390, Maximum intensity(cd): 18320.390

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=28.4

[C90/270]Total=28.4

Field angle(10%Imax): [C0/180]Total=58.8

[C90/270]Total=58.8

Maximum s/h(1/2): C0_180=0.48 C90_270=0.48

Maximum s/h(1/4): C0_180=0.47 C90_270=0.47

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 96.27%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.329%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/11/18
Humidity(%): 60.0%

Operator: YZQ
Distance(m): 9.28

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	18320.398	0.000	0	0.00%	0.00%
1.0	18278.414	17.512	17.512	0.30%	0.31%
2.0	18069.266	52.170	69.681	0.88%	1.23%
3.0	17839.662	85.882	155.564	1.45%	2.74%
4.0	17549.133	118.458	274.021	2.01%	4.82%
5.0	17195.627	149.470	423.492	2.53%	7.45%
6.0	16738.230	178.331	601.823	3.02%	10.59%
7.0	16143.368	204.095	805.918	3.46%	14.18%
8.0	15412.438	225.839	1031.757	3.83%	18.16%
9.0	14588.608	243.142	1274.899	4.12%	22.43%
10.0	13619.668	255.275	1530.174	4.32%	26.93%
11.0	12686.898	262.857	1793.031	4.45%	31.55%
12.0	11542.923	264.867	2057.897	4.49%	36.21%
13.0	10503.043	261.630	2319.527	4.43%	40.82%
14.0	9405.034	254.822	2574.349	4.32%	45.30%
15.0	8373.443	244.071	2818.42	4.13%	49.60%
16.0	7365.535	230.620	3049.04	3.91%	53.66%
17.0	6491.325	215.788	3264.828	3.66%	57.45%
18.0	5688.594	200.820	3465.649	3.40%	60.99%
19.0	4965.845	185.365	3651.014	3.14%	64.25%
20.0	4434.279	172.048	3823.062	2.91%	67.28%
21.0	4004.236	162.037	3985.099	2.74%	70.13%
22.0	3570.544	152.218	4137.317	2.58%	72.81%
23.0	3123.913	140.468	4277.785	2.38%	75.28%
24.0	2892.685	131.544	4409.33	2.23%	77.59%
25.0	2612.703	125.180	4534.51	2.12%	79.80%
26.0	2430.778	119.052	4653.562	2.02%	81.89%
27.0	2212.511	113.599	4767.161	1.92%	83.89%
28.0	2063.300	108.254	4875.416	1.83%	85.79%
29.0	1896.715	103.605	4979.021	1.76%	87.62%
30.0	1747.062	98.381	5077.402	1.67%	89.35%
31.0	1587.722	92.802	5170.204	1.57%	90.98%
32.0	1390.306	85.317	5255.521	1.45%	92.48%
33.0	1206.110	76.491	5332.013	1.30%	93.83%
34.0	1020.503	67.384	5399.396	1.14%	95.02%
35.0	821.914	57.219	5456.615	0.97%	96.02%
36.0	639.774	46.540	5503.156	0.79%	96.84%
37.0	481.316	36.564	5539.719	0.62%	97.48%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	377.048	28.651	5568.37	0.49%	97.99%
39.0	221.195	20.420	5588.79	0.35%	98.35%
40.0	145.411	12.786	5601.576	0.22%	98.57%
41.0	77.883	7.951	5609.527	0.13%	98.71%
42.0	46.698	4.526	5614.053	0.08%	98.79%
43.0	37.042	3.102	5617.155	0.05%	98.85%
44.0	31.713	2.595	5619.75	0.04%	98.89%
45.0	27.386	2.271	5622.022	0.04%	98.93%
46.0	24.565	2.032	5624.053	0.03%	98.97%
47.0	22.541	1.874	5625.927	0.03%	99.00%
48.0	20.894	1.756	5627.683	0.03%	99.03%
49.0	19.355	1.653	5629.336	0.03%	99.06%
50.0	18.203	1.566	5630.902	0.03%	99.09%
51.0	17.234	1.499	5632.401	0.03%	99.12%
52.0	16.470	1.446	5633.847	0.02%	99.14%
53.0	15.910	1.409	5635.256	0.02%	99.17%
54.0	15.383	1.379	5636.635	0.02%	99.19%
55.0	14.952	1.354	5637.989	0.02%	99.21%
56.0	14.576	1.334	5639.323	0.02%	99.24%
57.0	14.253	1.318	5640.641	0.02%	99.26%
58.0	13.983	1.306	5641.947	0.02%	99.28%
59.0	13.725	1.295	5643.243	0.02%	99.31%
60.0	13.499	1.286	5644.529	0.02%	99.33%
61.0	13.305	1.279	5645.808	0.02%	99.35%
62.0	13.144	1.274	5647.082	0.02%	99.37%
63.0	12.993	1.271	5648.354	0.02%	99.40%
64.0	12.875	1.269	5649.623	0.02%	99.42%
65.0	12.724	1.267	5650.89	0.02%	99.44%
66.0	12.638	1.265	5652.155	0.02%	99.46%
67.0	12.541	1.266	5653.421	0.02%	99.49%
68.0	12.455	1.266	5654.687	0.02%	99.51%
69.0	12.369	1.266	5655.954	0.02%	99.53%
70.0	12.293	1.267	5657.22	0.02%	99.55%
71.0	12.218	1.267	5658.487	0.02%	99.57%
72.0	12.143	1.267	5659.754	0.02%	99.60%
73.0	12.078	1.267	5661.021	0.02%	99.62%
74.0	12.035	1.268	5662.288	0.02%	99.64%
75.0	11.960	1.268	5663.556	0.02%	99.66%

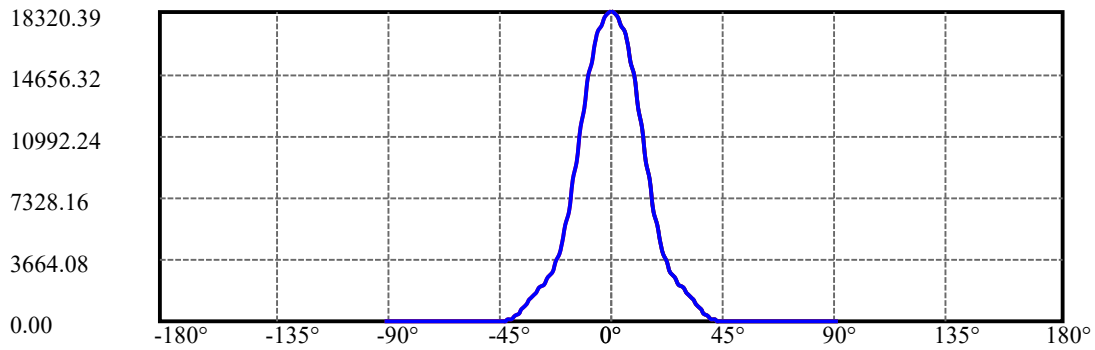
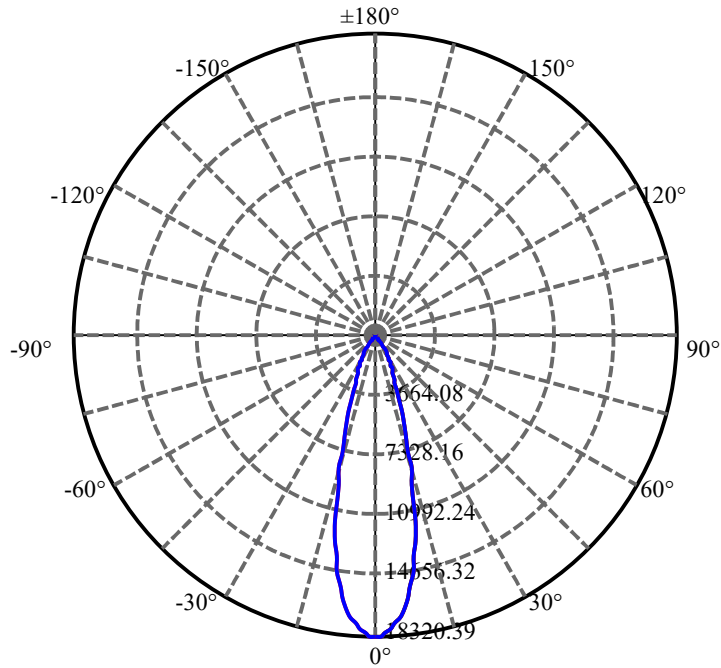
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.917	1.267	5664.823	0.02%	99.69%
77.0	11.906	1.270	5666.094	0.02%	99.71%
78.0	11.852	1.272	5667.365	0.02%	99.73%
79.0	11.809	1.271	5668.637	0.02%	99.75%
80.0	11.777	1.272	5669.908	0.02%	99.78%
81.0	11.755	1.273	5671.181	0.02%	99.80%
82.0	11.734	1.274	5672.455	0.02%	99.82%
83.0	11.701	1.274	5673.728	0.02%	99.84%
84.0	11.701	1.275	5675.003	0.02%	99.87%
85.0	11.691	1.277	5676.28	0.02%	99.89%
86.0	11.669	1.277	5677.557	0.02%	99.91%
87.0	11.637	1.275	5678.832	0.02%	99.93%
88.0	11.572	1.271	5680.104	0.02%	99.96%
89.0	11.572	1.269	5681.372	0.02%	99.98%
90.0	11.583	1.270	5682.642	0.02%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	5077.40	86.01%	89.35%
0-40	5601.58	94.89%	98.57%
0-60	5644.53	95.62%	99.33%
0-90	5681.37	96.25%	99.98%
0-120	5681.37	96.25%	99.98%
0-180	5682.64	96.27%	100.00%
60-90	36.84	0.62%	0.65%
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%
0-25.10	4546.11	77.01%	80.00%

ZONAL LUMEN SUMMARY

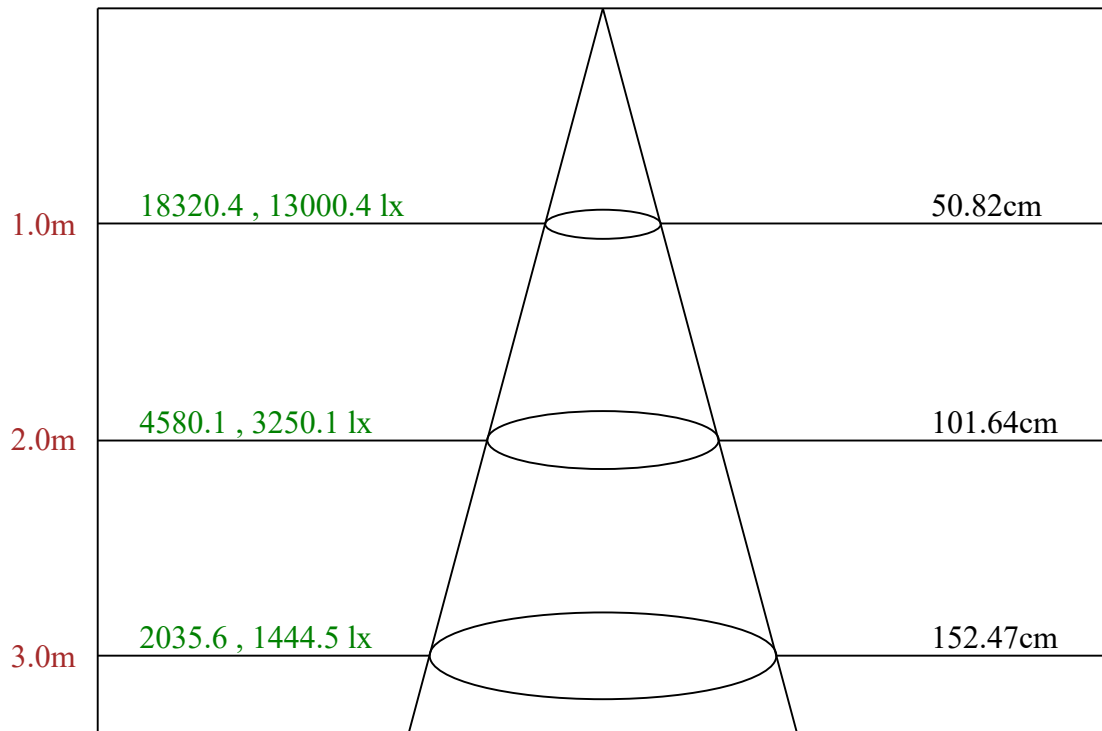
0-10	1530.17
10-20	2292.89
20-30	1254.34
30-40	524.17
40-50	29.33
50-60	13.63
60-70	12.69
70-80	12.69
80-90	11.46
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



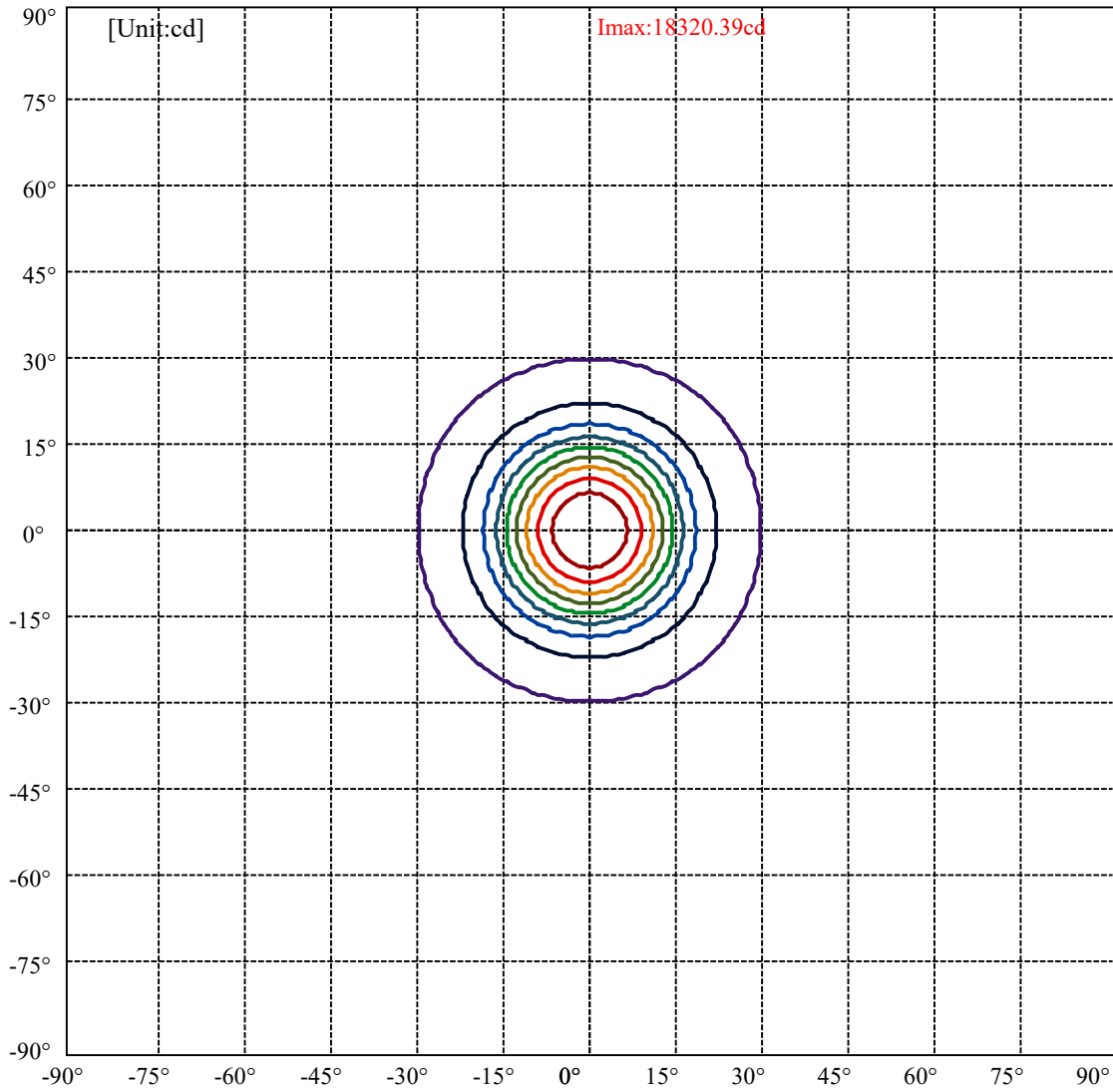
C0(Max): ———
C0/C180: ———
C90/C270: ———

Field angle(10%Imax):C0/180Left:29.4 Right:29.4
:C90/270Left:29.4 Right:29.4

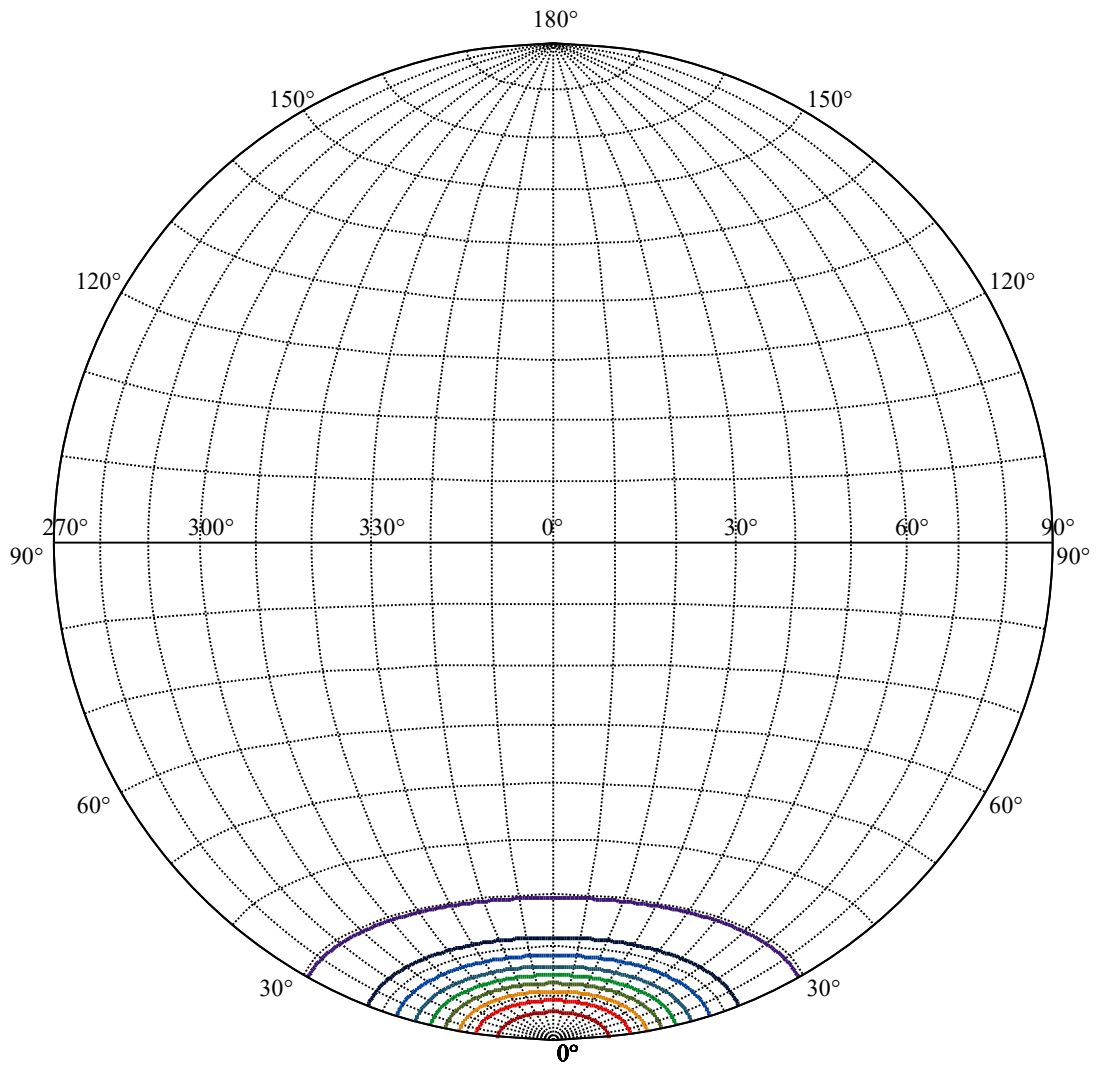
Beam Angle(50%Imax):C0/180Left:14.2 Right:14.2
:C90/270Left:14.2 Right:14.2



Max , Ave Beam angle of C0 plane 28.52



(10%Imax) 1832.04	—
(20%Imax) 3664.08	—
(30%Imax) 5496.12	—
(40%Imax) 7328.16	—
(50%Imax) 9160.2	—
(60%Imax) 10992.2	—
(70%Imax) 12824.3	—
(80%Imax) 14656.3	—
(90%Imax) 16488.4	—



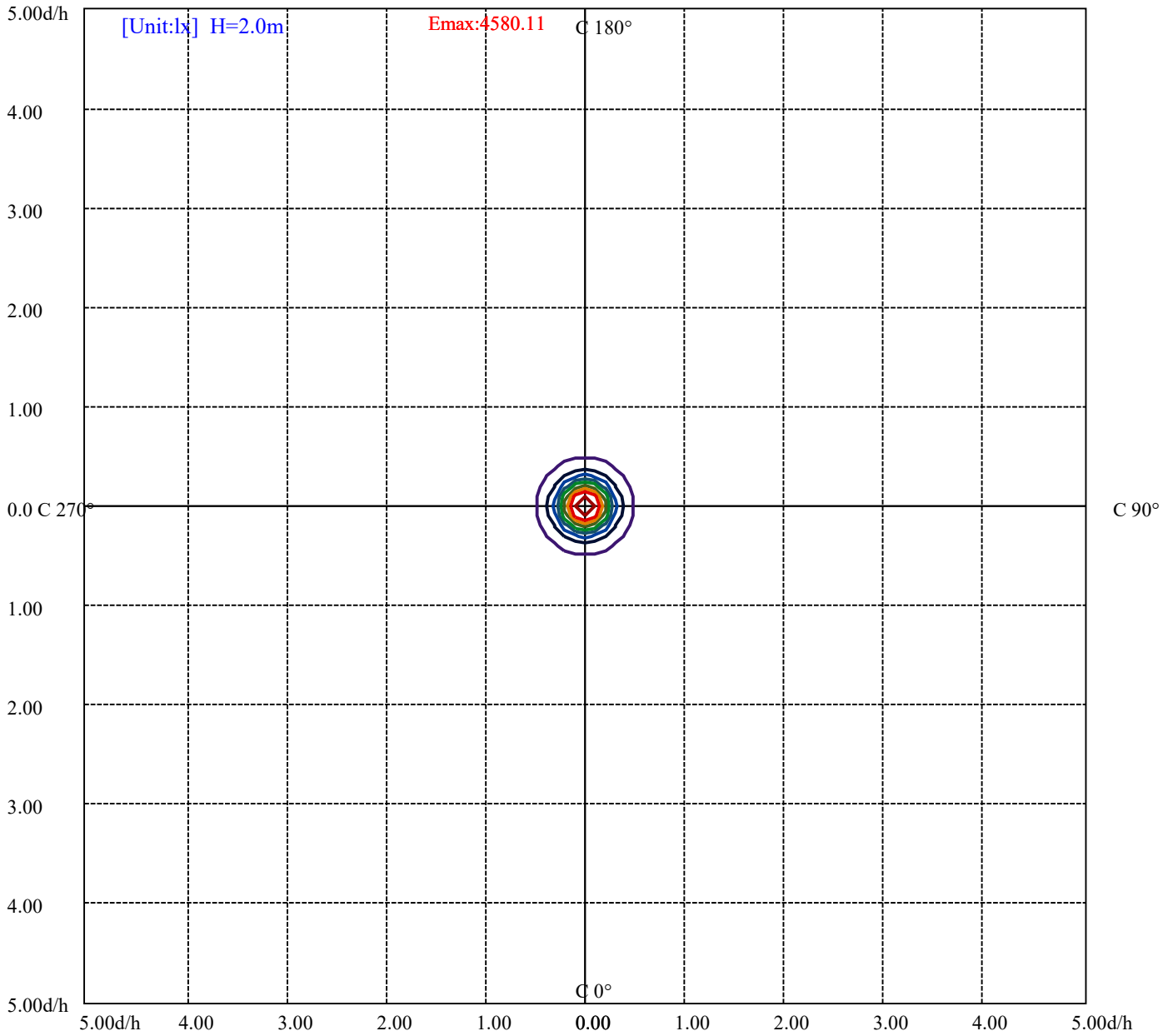
House

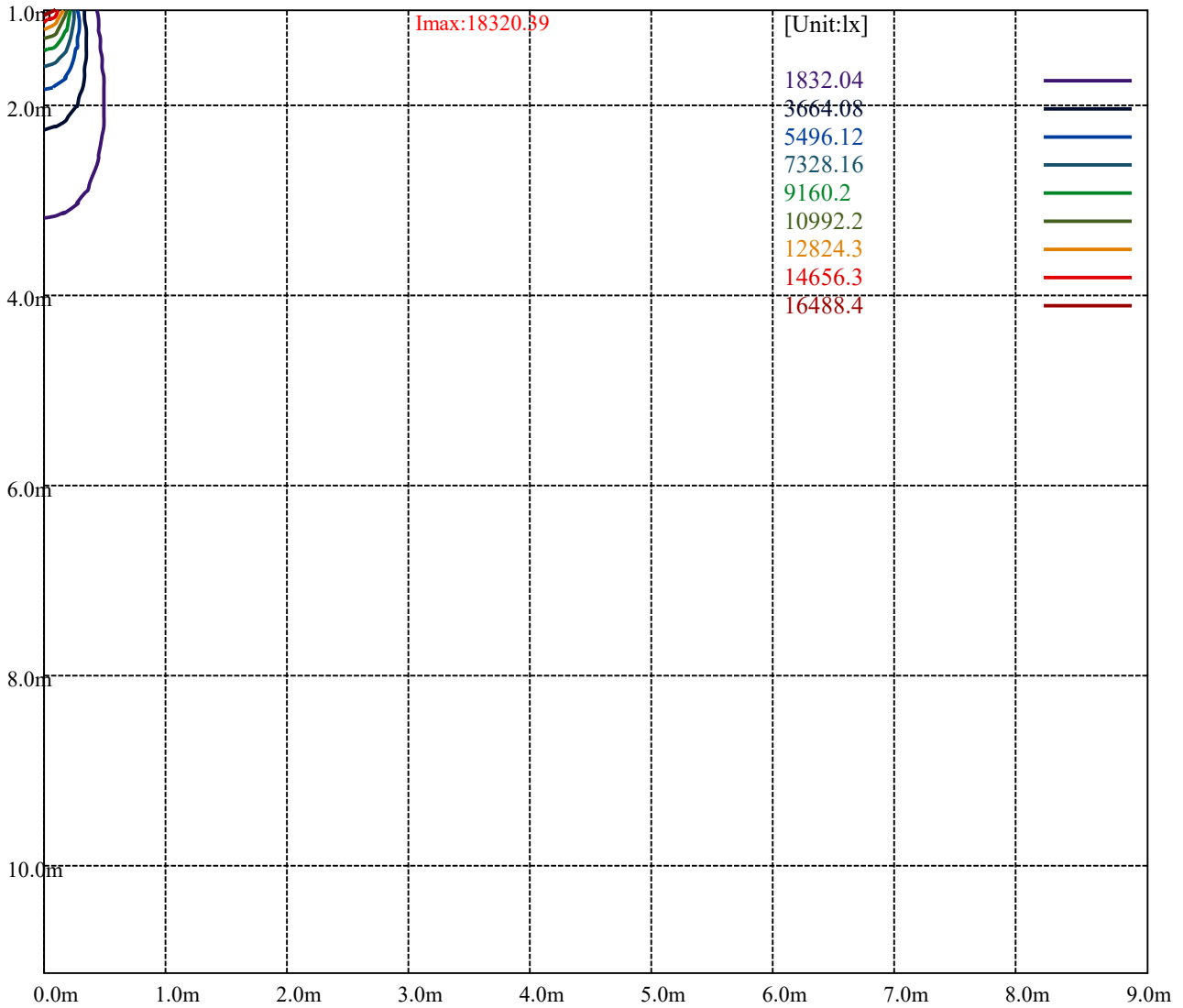
[Unit:cd]

Road

Imax:18320.39

(10%Imax) 1832.04	—
(20%Imax) 3664.08	—
(30%Imax) 5496.12	—
(40%Imax) 7328.16	—
(50%Imax) 9160.2	—
(60%Imax) 10992.2	—
(70%Imax) 12824.3	—
(80%Imax) 14656.3	—
(90%Imax) 16488.4	—





Luminance Table

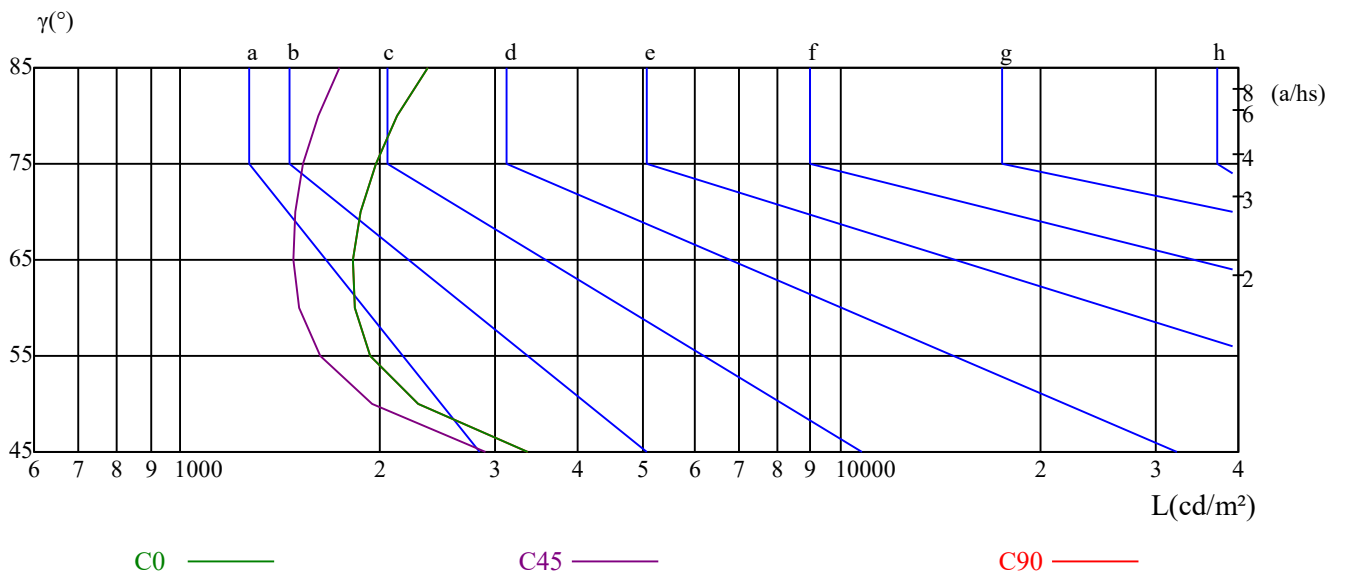
γ	45	50	55	60	65	70	75	80	85
C0	3350	2285	1943	1832	1822	1878	1974	2132	2363
C45	2900	1949	1631	1513	1478	1493	1535	1615	1735
C90	3350	2285	1943	1832	1822	1878	1974	2132	2363

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4167	4167	4167	6396	6396	6396	18565	18565	18565

Glare Table

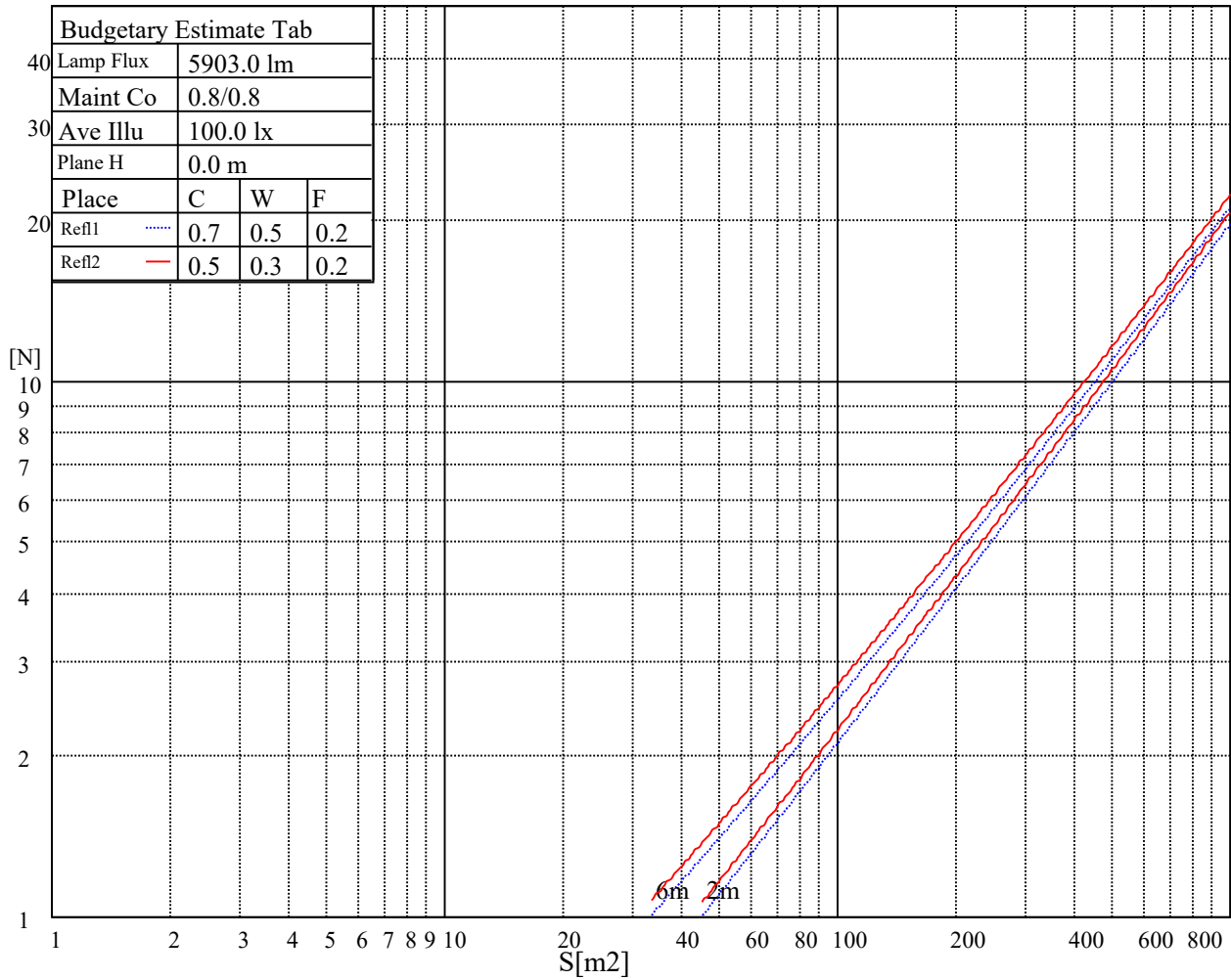
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	15.93	16.83	16.30	17.14	17.46	16.17	17.07	16.54	17.38	17.70
	3H	15.75	16.55	16.14	16.89	17.23	15.99	16.79	16.38	17.12	17.47
	4H	15.68	16.42	16.08	16.77	17.14	15.92	16.65	16.32	17.01	17.38
	6H	15.65	16.32	16.07	16.70	17.10	15.88	16.55	16.30	16.93	17.33
	8H	15.62	16.26	16.04	16.65	17.06	15.85	16.49	16.27	16.87	17.28
	12H	15.61	16.21	16.03	16.61	17.03	15.83	16.43	16.26	16.83	17.25
4H	2H	15.61	16.35	16.01	16.70	17.07	15.85	16.59	16.25	16.94	17.31
	3H	15.41	16.03	15.84	16.43	16.85	15.65	16.26	16.07	16.66	17.08
	4H	15.39	15.93	15.83	16.35	16.80	15.62	16.16	16.06	16.58	17.03
	6H	15.36	15.83	15.83	16.28	16.74	15.58	16.05	16.05	16.50	16.96
	8H	15.38	15.81	15.87	16.27	16.75	15.59	16.03	16.08	16.49	16.96
	12H	15.43	15.83	15.92	16.28	16.81	15.64	16.04	16.13	16.49	17.01
8H	4H	15.22	15.65	15.71	16.11	16.59	15.45	15.88	15.93	16.34	16.82
	6H	15.22	15.57	15.73	16.05	16.57	15.43	15.79	15.94	16.27	16.78
	8H	15.33	15.62	15.86	16.15	16.64	15.54	15.83	16.07	16.35	16.85
	12H	15.44	15.66	15.99	16.18	16.71	15.64	15.86	16.19	16.38	16.90
12H	4H	15.17	15.57	15.67	16.03	16.55	15.40	15.80	15.89	16.25	16.78
	6H	15.23	15.52	15.76	16.04	16.54	15.44	15.73	15.98	16.26	16.76
	8H	15.32	15.54	15.87	16.06	16.58	15.52	15.74	16.07	16.26	16.79
Variation with the observer position at spacings:											
S = 1.0H	6.2/-10.3					6.2/-10.3					
S = 1.5H	8.9/-8.5					8.9/-8.5					
S = 2.0H	10.7/-7.2					10.7/-7.2					
Standard tables:	BK1					BK1					
Uncorrected UGR	-3.1					-3.1					

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	1.15	1.15	1.15	1.12	1.12	1.12	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.08	1.06	1.04	1.06	1.04	1.02	1.02	1.01	0.99	0.99	0.97	0.96	0.95	0.94	0.94	0.92
2	1.02	0.99	0.96	1.01	0.98	0.95	0.98	0.95	0.93	0.95	0.93	0.91	0.92	0.91	0.89	0.88
3	0.97	0.93	0.90	0.96	0.92	0.90	0.93	0.91	0.88	0.91	0.89	0.87	0.89	0.87	0.86	0.84
4	0.93	0.88	0.85	0.92	0.88	0.85	0.90	0.86	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.81
5	0.89	0.84	0.81	0.88	0.84	0.81	0.86	0.83	0.80	0.85	0.82	0.79	0.83	0.81	0.79	0.77
6	0.85	0.80	0.77	0.84	0.80	0.77	0.83	0.79	0.77	0.82	0.78	0.76	0.81	0.78	0.76	0.74
7	0.82	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.73	0.72
8	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
9	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.67
10	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.71	0.68	0.65	0.64

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	18357.00	18322.55	18227.82	18055.58	17805.84	17087.70	16967.13	16430.62	15610.77
45.0	18331.16	18365.61	18339.77	18210.60	18021.14	17745.56	17297.74	16824.09	16255.71
90.0	18374.22	18348.39	18201.99	18012.52	17102.34	17102.34	16855.18	16313.49	15672.77
135.0	18219.21	18313.94	18322.55	18279.49	18072.81	17848.90	17556.10	17168.56	16565.74
180.0	18357.00	18305.33	18176.15	17978.08	17607.77	17228.85	16737.97	15954.29	15239.51
225.0	18331.16	18227.82	17986.69	17131.62	17131.62	16874.13	16109.39	15361.89	14493.81
270.0	18374.22	18331.16	18201.99	17952.24	17676.66	17211.62	16729.36	16169.59	15342.85
315.0	18219.21	18012.52	17097.17	17097.17	16974.88	16465.92	15652.97	14924.40	14118.34
360.0	18357.00	18322.55	18227.82	18055.58	17805.84	17087.70	16967.13	16430.62	15610.77
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	14841.73	13755.78	12788.67	11756.97	10686.52	9338.77	8298.46	7312.40	6401.27
45.0	15394.53	14610.85	13715.22	12483.72	11415.86	10322.15	9202.61	7867.78	6851.58
90.0	14944.21	13917.68	13015.16	12053.22	10817.42	9822.75	8630.01	7723.18	6878.36
135.0	15988.74	15334.24	14567.79	13534.37	12673.18	11751.72	10589.12	9659.04	8746.18
180.0	14395.55	13215.73	12199.53	10864.70	9779.61	8746.18	7747.21	6601.84	5775.10
225.0	13287.29	12258.18	11168.78	9771.94	8675.65	7373.54	6421.94	5569.36	4831.33
270.0	14567.79	13715.22	12802.36	11588.09	10606.34	9624.59	8685.90	7557.75	6713.79
315.0	13288.02	12149.67	11237.68	10290.37	9369.77	8260.56	7412.30	6632.93	5732.99
360.0	14841.73	13755.78	12788.67	11756.97	10686.52	9338.77	8298.46	7312.40	6401.27
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	5424.68	4754.68	4185.44	3710.93	3225.22	2922.08	2622.39	2426.90	2275.33
45.0	5947.34	5163.66	4362.76	4362.76	3796.19	3003.03	2746.40	2542.30	2322.70
90.0	6127.41	5295.51	4723.68	4224.19	3791.02	3350.95	3063.32	2808.41	2605.17
135.0	7686.93	6911.86	6033.46	5413.40	4862.24	4362.76	4362.76	3511.99	3211.44
180.0	5060.32	4457.49	4457.49	3432.77	3099.49	2831.66	2556.94	2380.40	2239.16
225.0	4215.58	3602.42	3213.16	2909.17	2671.48	2426.04	2272.75	2124.63	2032.48
270.0	5947.34	5129.21	4552.22	4414.43	3884.89	3201.11	2848.02	2624.11	2438.96
315.0	5099.16	4411.93	3946.03	3566.25	3233.83	2893.66	2668.90	2482.88	2320.98
360.0	5424.68	4754.68	4185.44	3710.93	3225.22	2922.08	2622.39	2426.90	2275.33
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	2127.21	2023.01	1714.88	1714.88	1552.97	1384.53	1214.53	1037.99	816.83
45.0	2190.94	2063.48	1967.89	1852.49	1715.56	1519.21	1357.31	1187.66	1015.42
90.0	2399.34	2255.53	1932.58	1701.87	1701.87	1469.18	1279.03	1089.23	857.05
135.0	2946.20	2674.92	2497.52	2333.89	2148.74	1909.33	1706.09	1508.88	1264.30
180.0	2103.10	1988.56	1812.88	1658.73	1495.96	1331.48	1111.01	927.58	753.62
225.0	1697.82	1697.82	1620.58	1462.38	1256.73	1092.84	927.41	762.32	559.60
270.0	2289.97	2105.68	1930.00	1751.73	1568.30	1342.67	1154.93	967.20	788.93
315.0	1945.50	1697.39	1697.39	1500.53	1261.63	1073.21	898.56	683.18	519.55
360.0	2127.21	2023.01	1714.88	1714.88	1552.97	1384.53	1214.53	1037.99	816.83
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	647.18	488.29	344.90	190.41	99.38	44.44	35.39	31.00	26.27
45.0	799.26	628.75	470.29	434.12	266.79	82.93	44.95	33.93	29.62
90.0	678.10	514.99	367.38	238.72	116.00	64.85	48.92	42.20	34.88
135.0	1067.09	827.68	650.28	480.63	442.73	271.36	107.05	71.22	60.63
180.0	596.89	435.85	435.85	153.20	76.73	40.30	35.31	30.66	25.66
225.0	409.92	275.15	161.47	68.55	38.84	33.93	28.51	24.89	21.87
270.0	583.97	467.71	467.71	144.85	74.75	44.18	38.15	32.90	28.33
315.0	335.78	212.11	118.50	59.08	48.05	41.08	35.31	29.54	26.44
360.0	647.18	488.29	344.90	190.41	99.38	44.44	35.39	31.00	26.27

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	23.17	21.10	19.55	18.60	17.74	16.79	15.93	15.50	15.16
45.0	25.15	22.39	20.67	19.55	18.43	17.57	16.79	16.19	15.59
90.0	30.06	25.92	23.68	21.96	20.07	18.60	17.57	16.53	16.02
135.0	50.03	42.89	36.94	32.55	28.68	26.18	23.25	21.44	19.98
180.0	22.30	20.41	19.46	18.52	17.48	16.53	16.02	15.59	15.24
225.0	19.98	19.12	18.34	17.31	16.53	16.02	15.67	15.16	14.90
270.0	24.29	22.39	21.01	19.81	18.17	17.22	16.53	15.93	15.42
315.0	24.11	22.30	20.67	18.86	17.74	16.71	16.10	15.42	14.98
360.0	23.17	21.10	19.55	18.60	17.74	16.79	15.93	15.50	15.16
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	14.81	14.47	14.21	13.95	13.69	13.52	13.35	13.18	13.09
45.0	15.16	14.90	14.47	14.21	13.95	13.69	13.52	13.35	13.18
90.0	15.50	15.07	14.55	14.21	14.04	13.78	13.43	13.26	13.09
135.0	18.52	17.57	16.79	16.10	15.50	14.98	14.47	14.12	13.78
180.0	14.81	14.47	14.30	14.04	13.78	13.61	13.43	13.26	13.09
225.0	14.64	14.30	14.04	13.78	13.61	13.43	13.26	13.09	13.00
270.0	14.98	14.55	14.30	14.04	13.78	13.52	13.43	13.26	13.09
315.0	14.64	14.30	13.95	13.69	13.52	13.26	13.09	12.92	12.83
360.0	14.81	14.47	14.21	13.95	13.69	13.52	13.35	13.18	13.09
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	13.00	12.83	12.75	12.66	12.57	12.49	12.40	12.31	12.23
45.0	13.09	13.00	12.83	12.75	12.66	12.57	12.49	12.40	12.31
90.0	12.92	12.83	12.66	12.57	12.57	12.40	12.31	12.23	12.14
135.0	13.43	13.26	13.00	12.92	12.75	12.57	12.57	12.40	12.31
180.0	12.92	12.83	12.75	12.66	12.49	12.49	12.40	12.31	12.23
225.0	12.92	12.75	12.66	12.57	12.49	12.49	12.31	12.23	12.23
270.0	12.92	12.83	12.66	12.57	12.49	12.40	12.31	12.31	12.23
315.0	12.75	12.66	12.49	12.40	12.31	12.23	12.14	12.14	12.06
360.0	13.00	12.83	12.75	12.66	12.57	12.49	12.40	12.31	12.23
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.14	12.14	12.06	11.97	11.97	11.97	11.88	11.80	11.80
45.0	12.23	12.14	12.06	12.06	11.97	11.97	11.88	11.88	11.80
90.0	12.14	12.06	11.97	11.88	11.88	11.88	11.80	11.80	11.80
135.0	12.23	12.14	12.14	12.06	11.97	11.97	11.88	11.88	11.80
180.0	12.14	12.14	12.06	11.97	11.97	11.88	11.88	11.80	11.80
225.0	12.14	12.06	12.06	11.88	11.88	11.88	11.88	11.80	11.80
270.0	12.14	12.06	12.06	11.97	11.88	11.88	11.80	11.80	11.71
315.0	11.97	11.88	11.88	11.88	11.80	11.80	11.80	11.71	11.71
360.0	12.14	12.14	12.06	11.97	11.97	11.97	11.88	11.80	11.80
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.80	11.80	11.80	11.71	11.71	11.71	11.71	11.63	11.63
45.0	11.80	11.80	11.71	11.71	11.71	11.71	11.71	11.63	11.63
90.0	11.71	11.71	11.71	11.71	11.63	11.63	11.63	11.63	11.54
135.0	11.80	11.80	11.71	11.71	11.71	11.71	11.63	11.63	11.63
180.0	11.80	11.71	11.71	11.71	11.71	11.71	11.63	11.54	11.54
225.0	11.71	11.71	11.71	11.71	11.71	11.63	11.63	11.54	11.54
270.0	11.71	11.71	11.63	11.71	11.71	11.63	11.63	11.54	11.54
315.0	11.71	11.63	11.63	11.63	11.63	11.63	11.54	11.45	11.54
360.0	11.80	11.80	11.80	11.71	11.71	11.71	11.71	11.63	11.63

Intensity data(cd)

C/ γ (°)	90.0
0.0	11.63
45.0	11.63
90.0	11.54
135.0	11.54
180.0	11.63
225.0	11.63
270.0	11.54
315.0	11.54
360.0	11.63