



NATA LIGHTING CO.,LTD
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Nata

Client: NT

LumCAT: 3-3012-LM

Luminaire: BJB 47.360.2050

Report No: 20251107-B005

Ballast type: DC

Test No: 20251117-C005

Voltage(V): 35.530

LampCAT: Bridgelux V18 LES18

Current(A): 0.898

Lamp flux(lm): 5130.8

Power (W): 31.900

Number of Lamps: 1

PF: 0.000

Length(mm): 85

Width(mm): 85

Phm Type: C

Height(mm): 51

Photometric Results

Lumens(lm): 4781.19, Efficiency(%): 93.19% , Luminous Efficacy(lm/W): 149.88

Central intensity(cd): 21620.880, Maximum intensity(cd): 21620.880

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=21.8

[C90/270]Total=21.8

Field angle(10%Imax): [C0/180]Total=49.4

[C90/270]Total=49.4

Maximum s/h(1/2): C0_180=0.37 C90_270=0.37

Maximum s/h(1/4): C0_180=0.37 C90_270=0.37

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 93.19%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.340%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	21620.887	0.000	0	0.00%	0.00%
1.0	21537.996	20.651	20.651	0.40%	0.43%
2.0	21241.965	61.402	82.053	1.20%	1.72%
3.0	20775.850	100.493	182.545	1.96%	3.82%
4.0	19897.883	136.148	318.693	2.65%	6.67%
5.0	19042.199	167.518	486.212	3.26%	10.17%
6.0	17864.229	193.953	680.165	3.78%	14.23%
7.0	16955.033	216.123	896.287	4.21%	18.75%
8.0	15732.368	233.937	1130.225	4.56%	23.64%
9.0	14156.509	242.233	1372.458	4.72%	28.71%
10.0	12381.501	240.159	1612.617	4.68%	33.73%
11.0	10564.402	229.277	1841.894	4.47%	38.52%
12.0	8893.490	212.703	2054.596	4.15%	42.97%
13.0	7592.564	195.648	2250.244	3.81%	47.06%
14.0	6496.385	180.337	2430.581	3.51%	50.84%
15.0	5653.716	166.802	2597.383	3.25%	54.33%
16.0	4965.522	155.602	2752.985	3.03%	57.58%
17.0	4486.704	147.197	2900.181	2.87%	60.66%
18.0	4141.262	142.256	3042.438	2.77%	63.63%
19.0	3762.782	137.514	3179.952	2.68%	66.51%
20.0	3380.223	130.737	3310.689	2.55%	69.24%
21.0	2958.791	121.722	3432.411	2.37%	71.79%
22.0	2687.841	113.471	3545.882	2.21%	74.16%
23.0	2459.843	108.012	3653.895	2.11%	76.42%
24.0	2266.184	103.328	3757.222	2.01%	78.58%
25.0	2117.415	99.673	3856.896	1.94%	80.67%
26.0	1963.317	96.326	3953.222	1.88%	82.68%
27.0	1823.751	92.651	4045.873	1.81%	84.62%
28.0	1721.884	89.768	4135.641	1.75%	86.50%
29.0	1589.886	86.645	4222.287	1.69%	88.31%
30.0	1434.560	81.659	4303.946	1.59%	90.02%
31.0	1269.428	75.248	4379.194	1.47%	91.59%
32.0	1101.282	67.918	4447.112	1.32%	93.01%
33.0	947.259	60.351	4507.463	1.18%	94.27%
34.0	800.557	52.894	4560.357	1.03%	95.38%
35.0	642.454	44.815	4605.172	0.87%	96.32%
36.0	499.218	36.351	4641.523	0.71%	97.08%
37.0	397.544	29.247	4670.77	0.57%	97.69%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	287.183	22.855	4693.625	0.45%	98.17%
39.0	194.983	16.458	4710.083	0.32%	98.51%
40.0	80.531	9.609	4719.692	0.19%	98.71%
41.0	45.535	4.489	4724.181	0.09%	98.81%
42.0	34.469	2.907	4727.088	0.06%	98.87%
43.0	29.722	2.378	4729.465	0.05%	98.92%
44.0	25.491	2.084	4731.549	0.04%	98.96%
45.0	20.658	1.774	4733.323	0.03%	99.00%
46.0	17.321	1.485	4734.808	0.03%	99.03%
47.0	14.845	1.279	4736.087	0.02%	99.06%
48.0	13.919	1.163	4737.25	0.02%	99.08%
49.0	13.198	1.114	4738.364	0.02%	99.10%
50.0	12.767	1.083	4739.446	0.02%	99.13%
51.0	12.401	1.065	4740.511	0.02%	99.15%
52.0	12.035	1.049	4741.56	0.02%	99.17%
53.0	11.712	1.033	4742.593	0.02%	99.19%
54.0	11.443	1.021	4743.613	0.02%	99.21%
55.0	11.217	1.011	4744.625	0.02%	99.24%
56.0	11.023	1.005	4745.63	0.02%	99.26%
57.0	10.905	1.003	4746.632	0.02%	99.28%
58.0	10.765	1.002	4747.634	0.02%	99.30%
59.0	10.689	1.003	4748.637	0.02%	99.32%
60.0	10.550	1.003	4749.641	0.02%	99.34%
61.0	10.453	1.002	4750.643	0.02%	99.36%
62.0	10.399	1.005	4751.648	0.02%	99.38%
63.0	10.334	1.008	4752.656	0.02%	99.40%
64.0	10.302	1.013	4753.669	0.02%	99.42%
65.0	10.259	1.018	4754.686	0.02%	99.45%
66.0	10.194	1.020	4755.707	0.02%	99.47%
67.0	10.162	1.024	4756.73	0.02%	99.49%
68.0	10.119	1.027	4757.758	0.02%	99.51%
69.0	10.087	1.031	4758.789	0.02%	99.53%
70.0	10.076	1.036	4759.824	0.02%	99.55%
71.0	10.065	1.041	4760.865	0.02%	99.57%
72.0	10.033	1.045	4761.91	0.02%	99.60%
73.0	10.000	1.048	4762.958	0.02%	99.62%
74.0	10.022	1.053	4764.01	0.02%	99.64%
75.0	9.990	1.057	4765.068	0.02%	99.66%

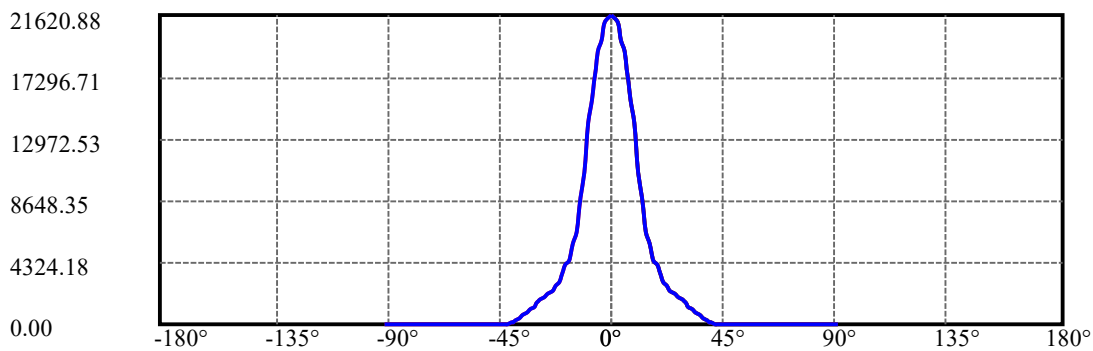
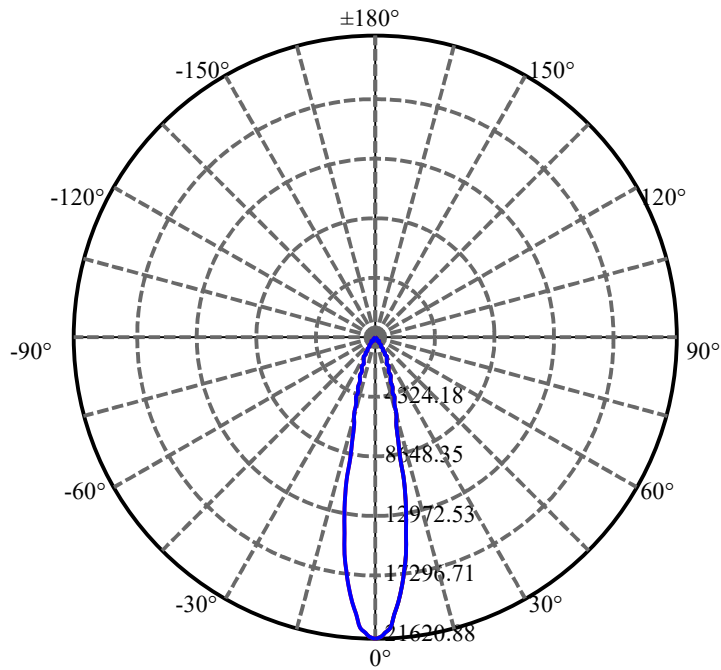
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.968	1.059	4766.127	0.02%	99.69%
77.0	9.968	1.063	4767.19	0.02%	99.71%
78.0	9.936	1.065	4768.255	0.02%	99.73%
79.0	9.947	1.068	4769.324	0.02%	99.75%
80.0	9.936	1.072	4770.396	0.02%	99.77%
81.0	9.914	1.073	4771.469	0.02%	99.80%
82.0	9.936	1.076	4772.546	0.02%	99.82%
83.0	9.925	1.080	4773.625	0.02%	99.84%
84.0	9.936	1.082	4774.707	0.02%	99.86%
85.0	9.904	1.083	4775.79	0.02%	99.89%
86.0	9.882	1.082	4776.872	0.02%	99.91%
87.0	9.861	1.080	4777.952	0.02%	99.93%
88.0	9.839	1.079	4779.031	0.02%	99.95%
89.0	9.828	1.078	4780.109	0.02%	99.98%
90.0	9.839	1.078	4781.187	0.02%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	4303.95	83.88%	90.02%
0-40	4719.69	91.99%	98.71%
0-60	4749.64	92.57%	99.34%
0-90	4780.11	93.16%	99.98%
0-120	4780.11	93.16%	99.98%
0-180	4781.19	93.19%	100.00%
60-90	30.47	0.59%	0.64%
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%
0-24.68	3824.95	74.55%	80.00%

ZONAL LUMEN SUMMARY

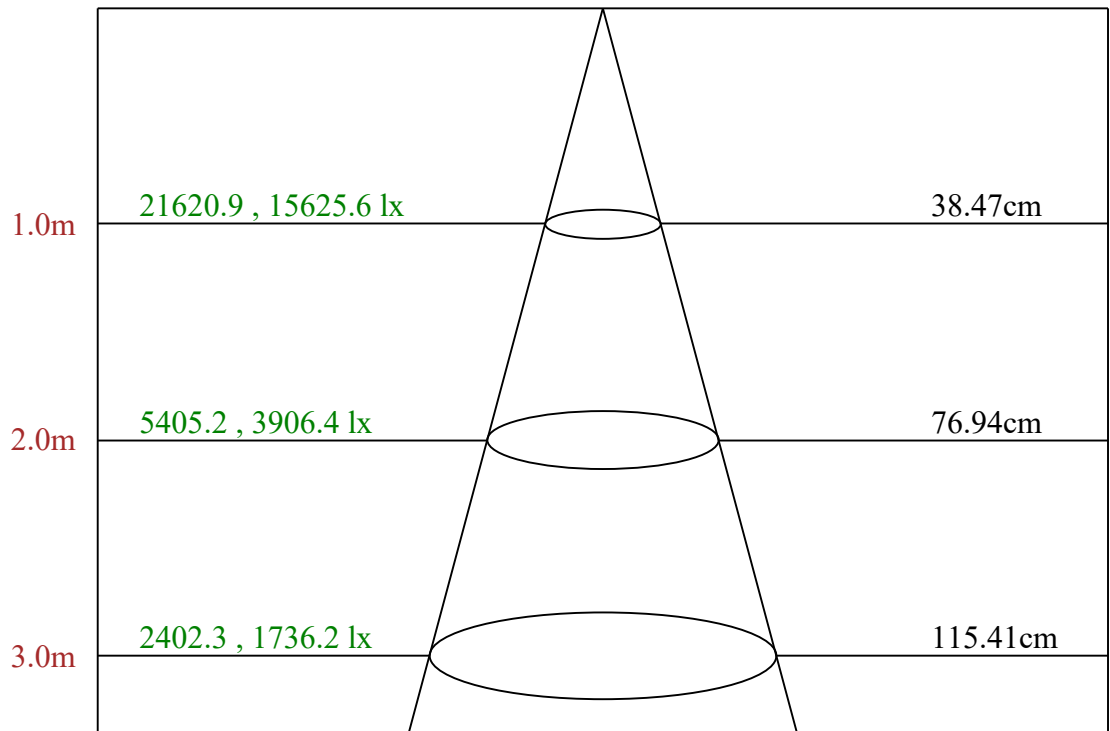
0-10	1612.62
10-20	1698.07
20-30	993.26
30-40	415.75
40-50	19.75
50-60	10.19
60-70	10.18
70-80	10.57
80-90	9.71
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



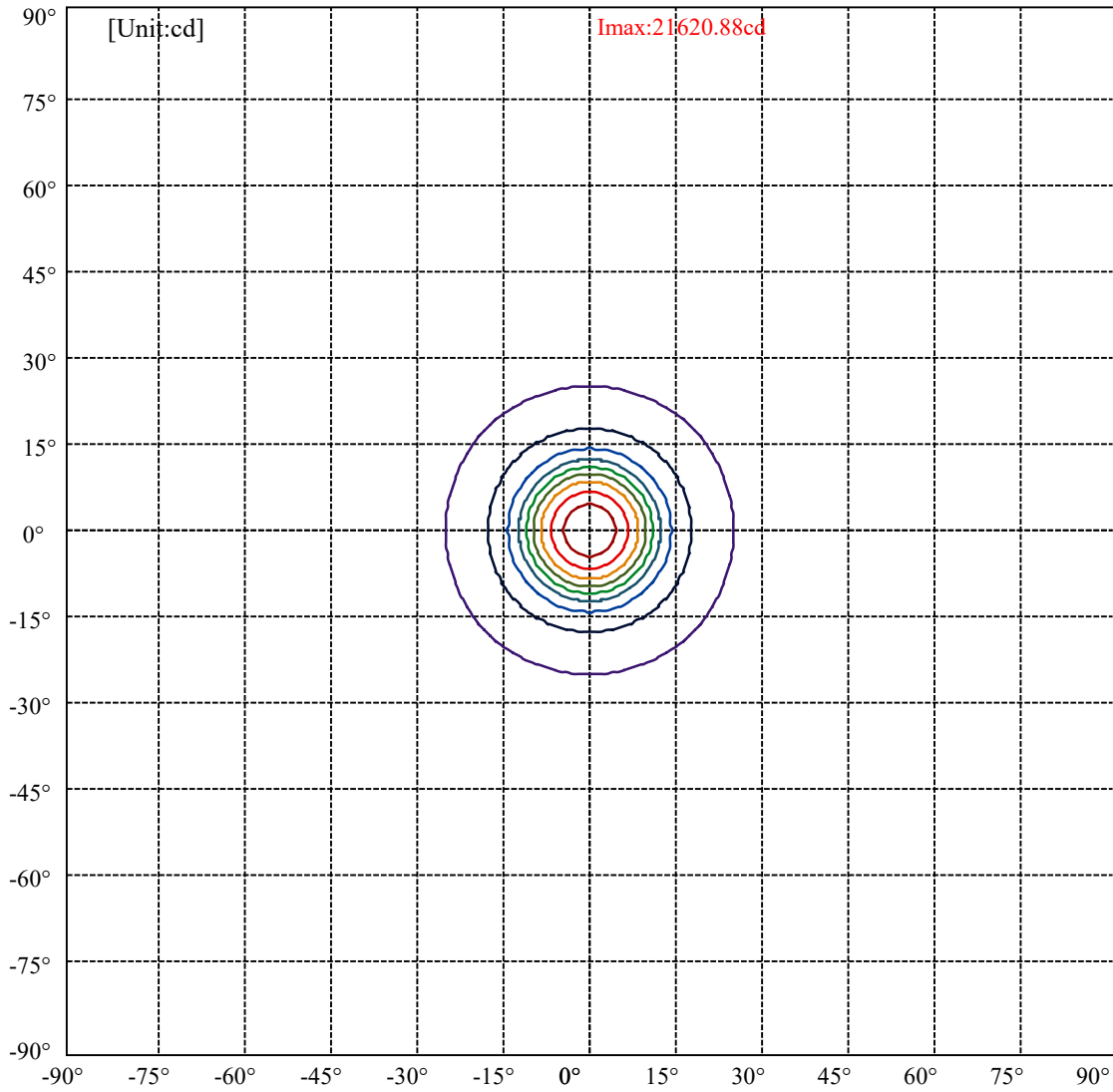
C0(Max): —————
C0/C180: —————
C90/C270: —————

Field angle(10%Imax):C0/180Left:24.7 Right:24.7
:C90/270Left:24.7 Right:24.7

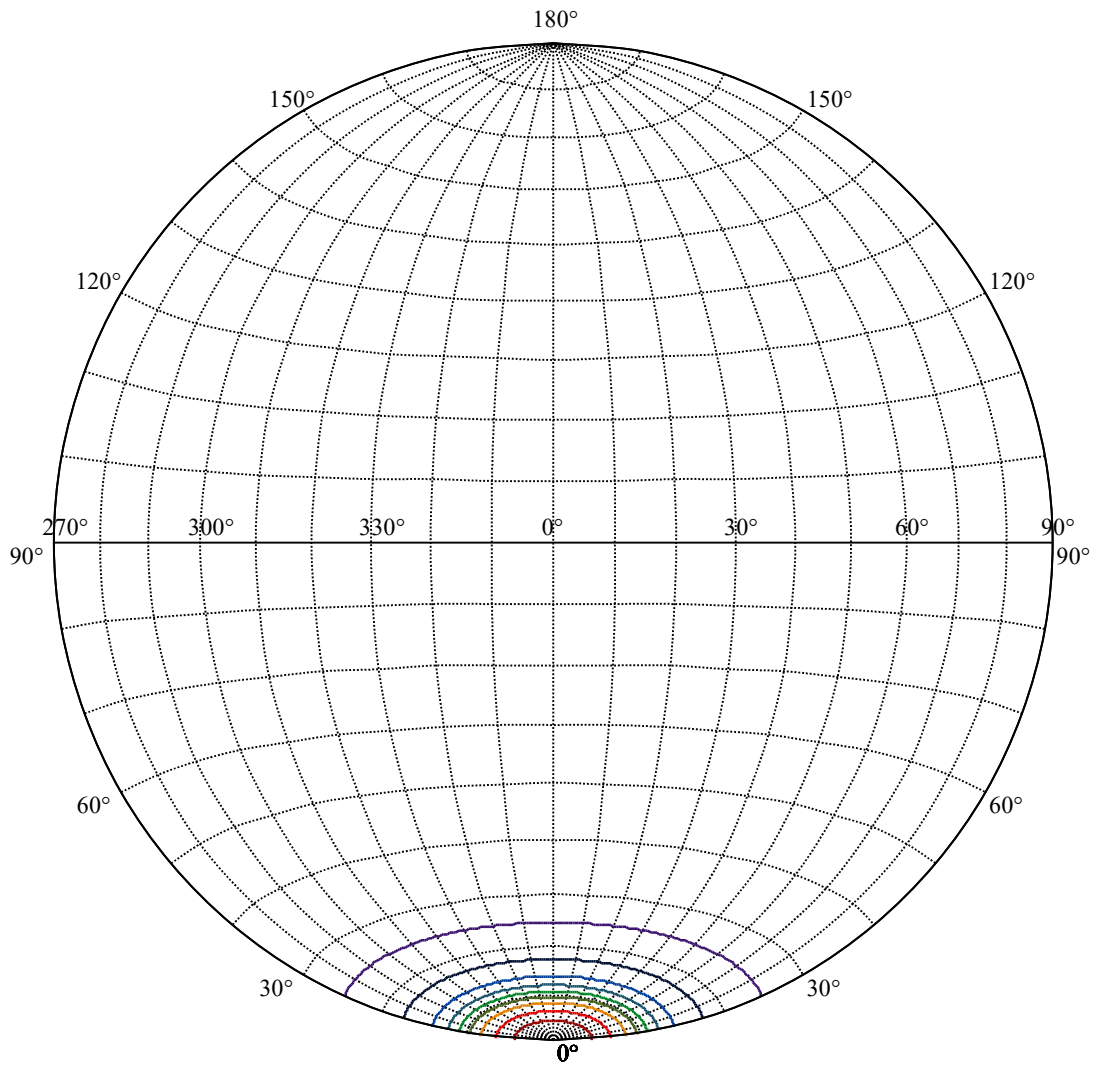
Beam Angle(50%Imax):C0/180Left:10.9 Right:10.9
:C90/270Left:10.9 Right:10.9



Max , Ave Beam angle of C0 plane 21.77



(10%Imax) 2162.09	—
(20%Imax) 4324.18	—
(30%Imax) 6486.26	—
(40%Imax) 8648.35	—
(50%Imax) 10810.4	—
(60%Imax) 12972.5	—
(70%Imax) 15134.6	—
(80%Imax) 17296.7	—
(90%Imax) 19458.8	—



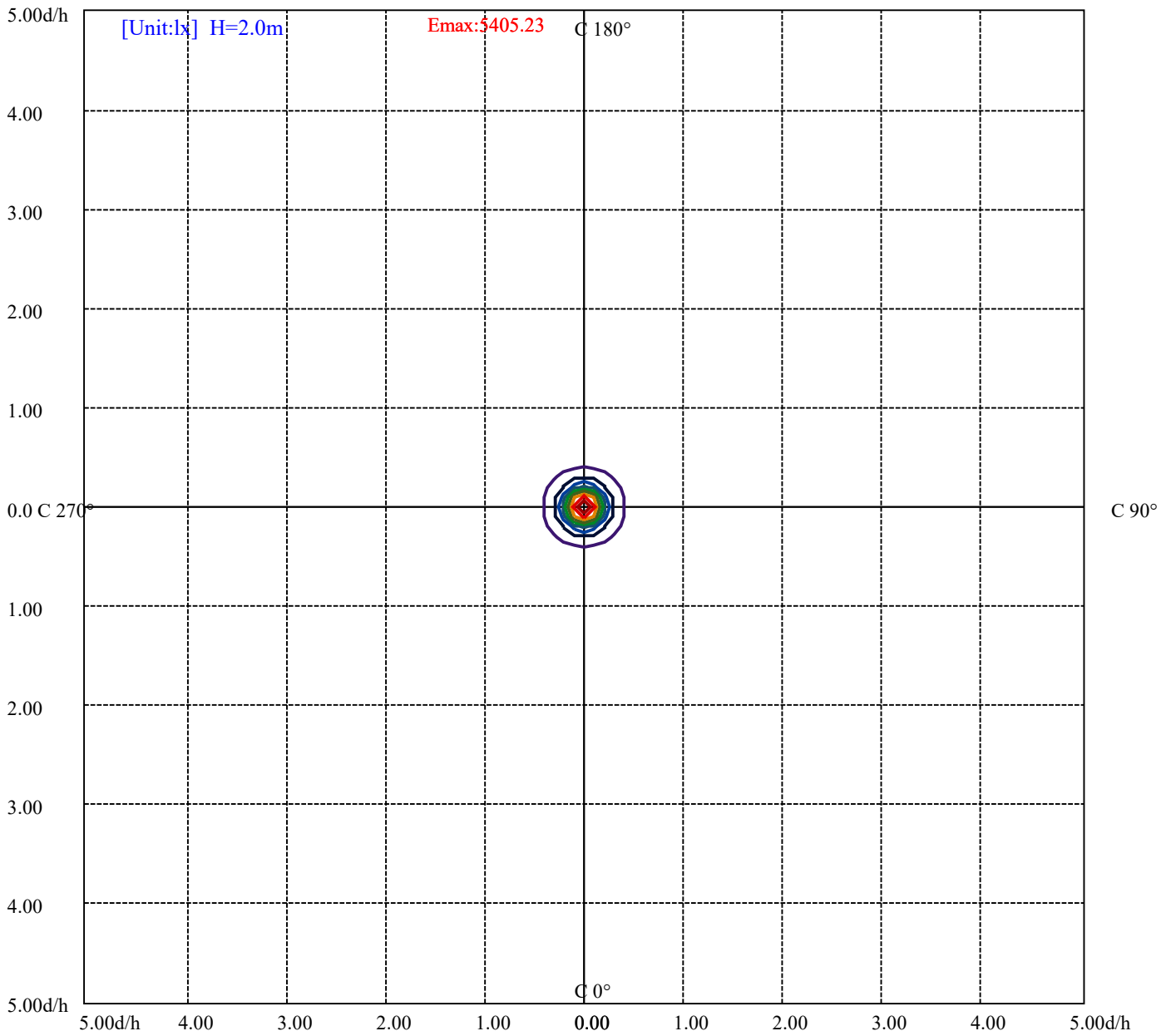
House

[Unit:cd]

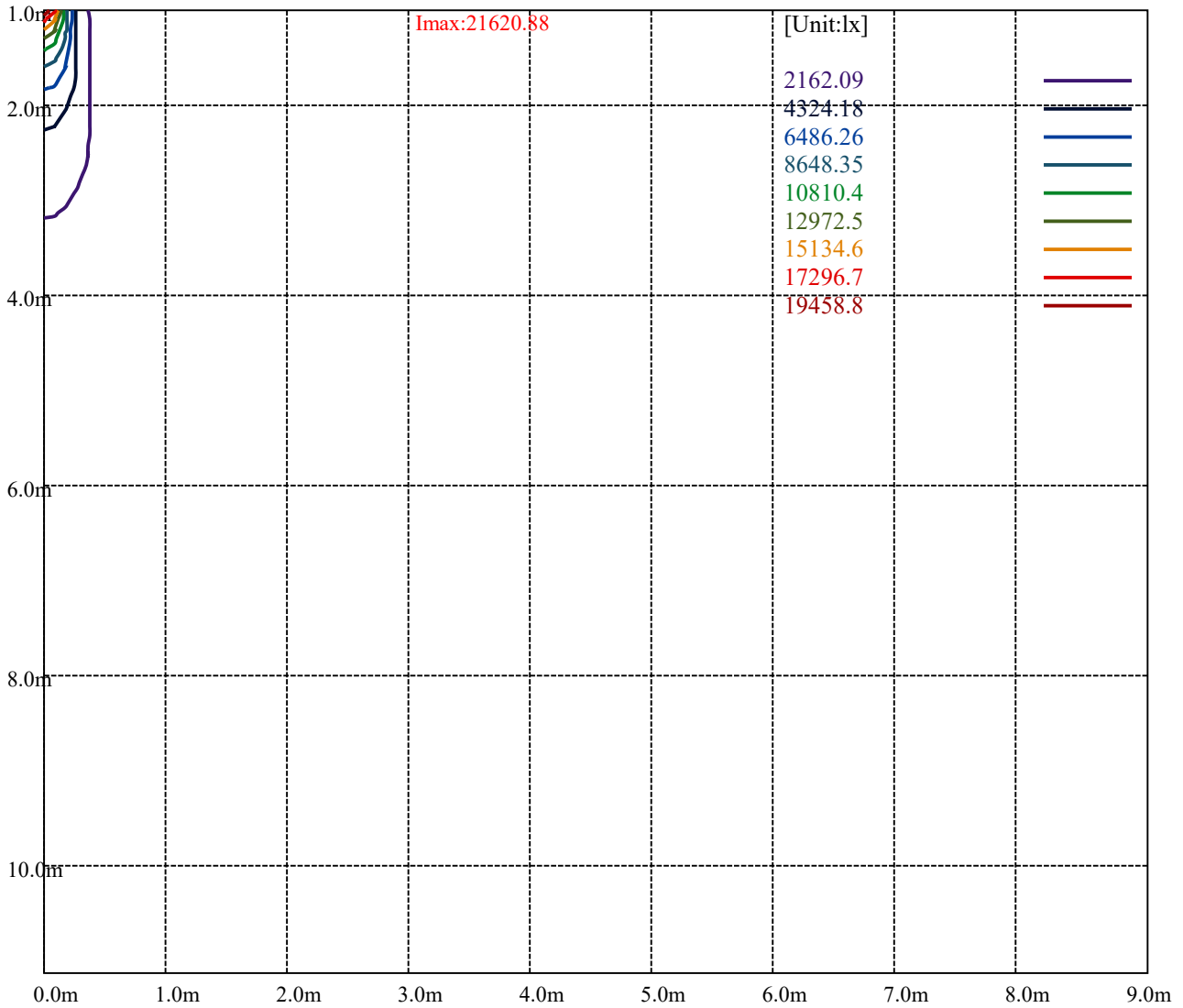
Road

Imax:21620.88

(10%Imax) 2162.09	—
(20%Imax) 4324.18	—
(30%Imax) 6486.26	—
(40%Imax) 8648.35	—
(50%Imax) 10810.4	—
(60%Imax) 12972.5	—
(70%Imax) 15134.6	—
(80%Imax) 17296.7	—
(90%Imax) 19458.8	—



(10%Emax) 540.5225	—
(20%Emax) 1081.042	—
(30%Emax) 1621.565	—
(40%Emax) 2162.087	—
(50%Emax) 2702.6	—
(60%Emax) 3243.125	—
(70%Emax) 3783.65	—
(80%Emax) 4324.175	—
(90%Emax) 4864.7	—



Luminance Table

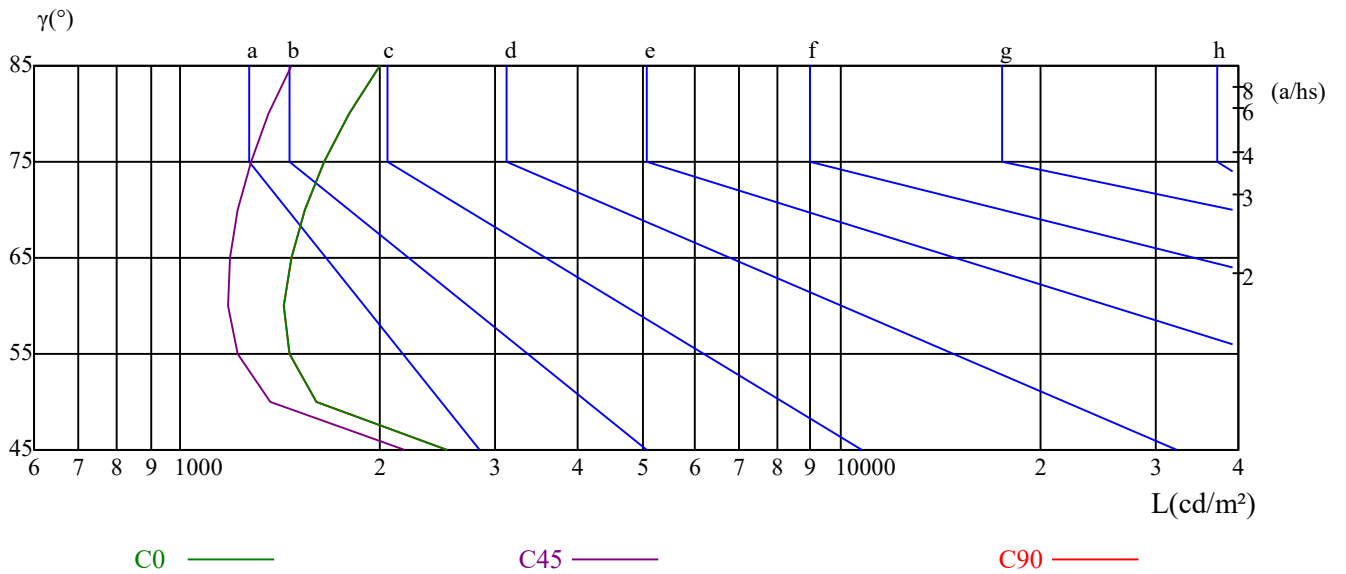
γ	45	50	55	60	65	70	75	80	85
C0	2527	1603	1458	1432	1469	1540	1649	1799	2001
C45	2187	1367	1224	1182	1192	1224	1282	1363	1470
C90	2527	1603	1458	1432	1469	1540	1649	1799	2001

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3360	3360	3360	5342	5342	5342	15728	15728	15728

Glare Table

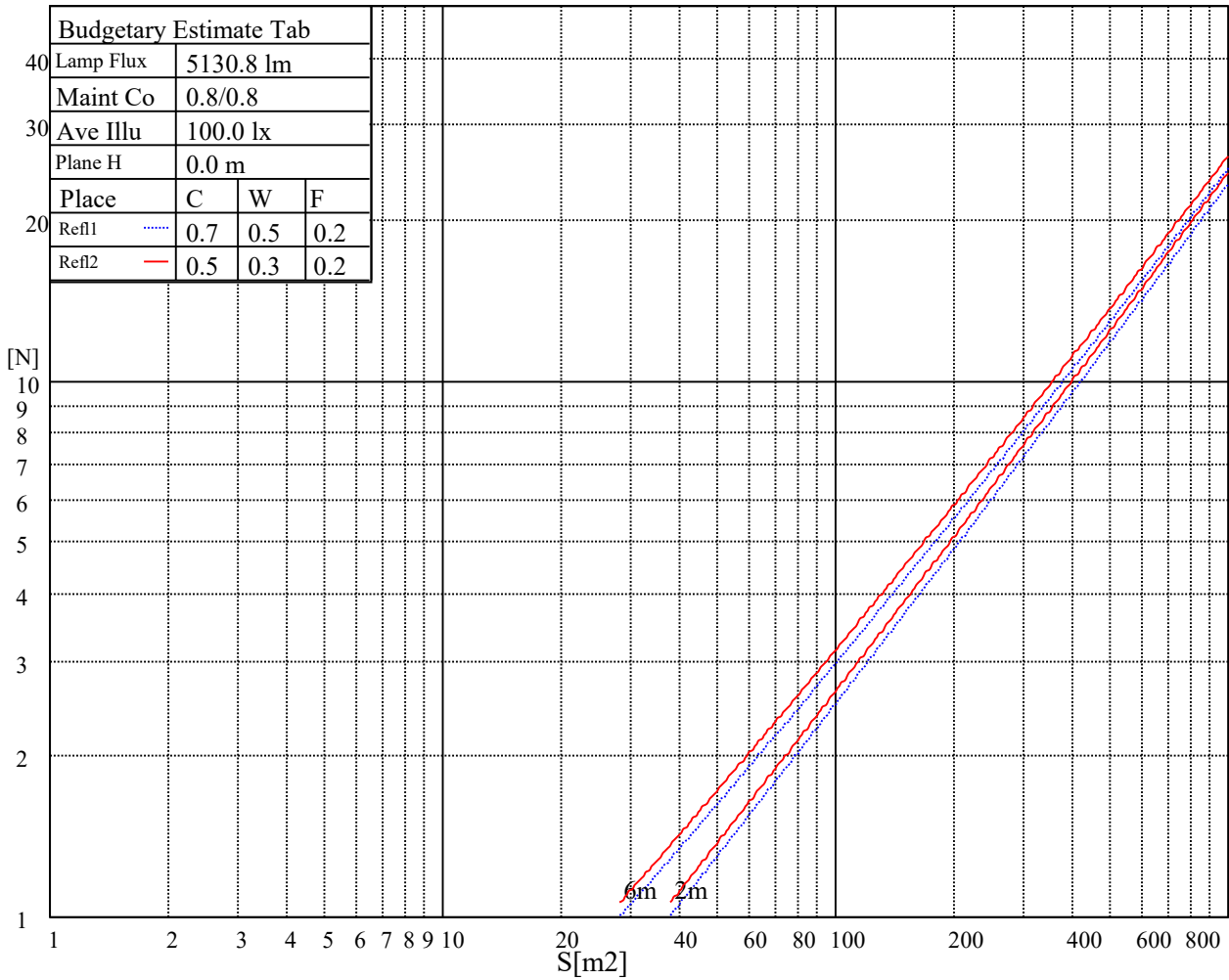
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	15.35	16.24	15.71	16.55	16.87	14.91	15.81	15.28	16.12	16.44
	3H	15.17	15.96	15.55	16.30	16.65	14.74	15.53	15.12	15.87	16.22
	4H	15.09	15.83	15.50	16.18	16.55	14.67	15.40	15.07	15.76	16.13
	6H	15.06	15.73	15.48	16.11	16.51	14.65	15.32	15.07	15.70	16.10
	8H	15.03	15.67	15.46	16.06	16.47	14.62	15.26	15.04	15.65	16.06
	12H	15.02	15.62	15.45	16.02	16.44	14.62	15.22	15.04	15.62	16.03
4H	2H	15.02	15.76	15.43	16.11	16.48	14.59	15.33	14.99	15.68	16.05
	3H	14.82	15.44	15.25	15.84	16.25	14.40	15.01	14.82	15.41	15.83
	4H	14.80	15.33	15.24	15.76	16.21	14.39	14.92	14.82	15.34	15.79
	6H	14.77	15.24	15.24	15.69	16.14	14.36	14.83	14.84	15.28	15.74
	8H	14.79	15.22	15.28	15.68	16.16	14.39	14.83	14.88	15.29	15.76
	12H	14.84	15.24	15.33	15.70	16.22	14.46	14.86	14.95	15.31	15.84
8H	4H	14.63	15.06	15.12	15.52	16.00	14.22	14.65	14.70	15.11	15.59
	6H	14.63	14.98	15.14	15.46	15.97	14.23	14.59	14.74	15.07	15.58
	8H	14.74	15.03	15.27	15.56	16.05	14.36	14.65	14.89	15.17	15.67
	12H	14.86	15.08	15.40	15.59	16.12	14.50	14.71	15.04	15.23	15.76
12H	4H	14.58	14.98	15.07	15.44	15.96	14.17	14.57	14.66	15.03	15.55
	6H	14.64	14.93	15.17	15.45	15.95	14.25	14.54	14.78	15.06	15.56
	8H	14.73	14.95	15.28	15.47	15.99	14.36	14.58	14.90	15.09	15.62
Variation with the observer position at spacings:											
S = 1.0H	6.2/-10.3					6.2/-10.3					
S = 1.5H	8.8/-8.3					8.8/-8.3					
S = 2.0H	10.6/-6.9					10.6/-6.9					
Standard tables:	BK1					BK1					
Uncorrected UGR	-4.1					-4.1					

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	1.11	1.11	1.11	1.08	1.08	1.08	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.05	1.03	1.01	1.03	1.01	1.00	0.99	0.98	0.96	0.96	0.95	0.94	0.92	0.92	0.91	0.89
2	0.99	0.96	0.94	0.98	0.95	0.93	0.95	0.93	0.91	0.92	0.91	0.89	0.90	0.88	0.87	0.86
3	0.95	0.91	0.88	0.94	0.90	0.88	0.91	0.89	0.86	0.89	0.87	0.85	0.87	0.85	0.84	0.82
4	0.91	0.87	0.84	0.90	0.86	0.83	0.88	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.81	0.79
5	0.87	0.83	0.80	0.86	0.82	0.80	0.85	0.81	0.79	0.83	0.80	0.78	0.82	0.80	0.78	0.76
6	0.84	0.80	0.77	0.83	0.79	0.76	0.82	0.78	0.76	0.81	0.78	0.75	0.79	0.77	0.75	0.74
7	0.81	0.76	0.74	0.80	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
8	0.78	0.74	0.71	0.77	0.73	0.71	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.70	0.69
9	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.71	0.68	0.73	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	0.66	0.71	0.68	0.66	0.65

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	21672.56	21698.39	21569.21	21216.13	20518.57	19881.29	17141.09	17141.09	16538.26
45.0	21569.21	21741.45	21638.11	21431.43	21043.89	20449.68	19691.83	18503.40	17426.92
90.0	21741.45	21646.72	21396.98	20940.55	20337.72	19459.31	16952.49	16952.49	16088.73
135.0	21500.32	21750.06	21646.72	21569.21	21233.35	20475.51	19769.34	18555.07	17530.26
180.0	21672.56	21405.59	21078.34	20509.96	19571.27	18692.86	17711.11	16479.62	14920.87
225.0	21569.21	21319.47	20690.81	20010.47	19200.96	16954.22	16954.22	15677.08	13734.25
270.0	21741.45	21577.83	21405.59	20802.76	20208.54	19355.97	18245.04	17237.46	16135.14
315.0	21500.32	21164.46	20509.96	19726.28	17068.75	17068.75	16448.70	15094.06	13484.51
360.0	21672.56	21698.39	21569.21	21216.13	20518.57	19881.29	17141.09	17141.09	16538.26
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	15160.37	13236.48	11434.89	9676.35	8195.11	6728.52	5840.64	5176.66	4644.45
45.0	16298.77	14559.18	12888.48	10623.57	8978.70	7618.03	6481.27	5465.07	4888.08
90.0	14230.29	12417.50	10621.93	8633.46	7354.60	6153.25	5413.49	4853.72	4380.93
135.0	16298.77	15015.60	13017.66	11235.01	9512.64	8151.97	6799.91	5955.95	5275.61
180.0	13431.03	11596.70	9417.91	8057.24	6954.92	5930.11	5292.84	4646.95	4414.43
225.0	11964.52	10280.90	8423.33	7242.64	6301.37	5579.70	4882.14	4432.60	4013.20
270.0	14223.31	12388.99	10597.73	8685.90	7471.63	6498.49	5749.26	5008.65	4509.16
315.0	11645.02	9556.64	8113.30	6993.76	5971.54	5311.01	4770.18	4184.58	3767.77
360.0	15160.37	13236.48	11434.89	9676.35	8195.11	6728.52	5840.64	5176.66	4644.45
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	4118.27	3735.90	3394.87	3011.65	2746.40	2475.13	2297.73	2153.05	2030.76
45.0	4440.26	4345.53	3930.53	3292.39	2995.28	2732.62	2463.93	2290.84	2152.18
90.0	3988.23	3535.25	3211.44	2922.94	2622.39	2420.87	2249.50	2115.15	1987.70
135.0	4724.46	4379.98	4379.98	3434.49	3053.84	2785.16	2509.58	2325.28	2178.02
180.0	4414.43	3473.24	3161.49	2815.30	2587.08	2391.59	2198.69	2068.65	1958.42
225.0	3635.14	3219.19	2923.81	2676.65	2420.01	2254.67	2085.87	1973.06	1709.88
270.0	4388.59	4388.59	3290.67	2994.42	2736.93	2463.93	2288.25	2144.43	1992.00
315.0	3420.71	3024.56	2748.99	2522.49	2340.78	2154.77	2035.93	1868.86	1697.57
360.0	4118.27	3735.90	3394.87	3011.65	2746.40	2475.13	2297.73	2153.05	2030.76
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1698.94	1698.94	1668.80	1523.78	1340.43	1190.07	1041.00	889.78	698.16
45.0	2008.37	1906.75	1760.35	1619.11	1465.82	1277.22	1120.49	970.64	820.79
90.0	1710.66	1710.66	1572.26	1425.86	1240.02	1085.69	936.54	787.47	612.39
135.0	2049.70	1917.08	1811.16	1689.73	1535.58	1342.67	1191.10	1036.09	854.38
180.0	1855.08	1697.48	1544.19	1354.73	1204.02	1055.90	863.85	707.98	565.88
225.0	1709.88	1560.64	1405.45	1253.63	1061.41	916.04	775.58	639.17	472.19
270.0	1895.55	1766.37	1595.00	1442.57	1293.58	1104.99	944.80	796.68	669.23
315.0	1661.83	1517.15	1361.88	1167.08	1014.56	837.67	704.71	576.65	446.61
360.0	1698.94	1698.94	1668.80	1523.78	1340.43	1190.07	1041.00	889.78	698.16
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	554.00	420.95	277.65	175.77	80.43	41.08	32.90	27.56	23.94
45.0	643.39	504.74	441.01	441.01	127.28	62.01	39.36	33.93	28.68
90.0	477.78	354.81	245.35	133.14	66.91	42.46	37.98	33.07	29.19
135.0	714.87	577.08	445.32	445.32	180.07	83.19	48.14	40.56	36.26
180.0	437.57	437.57	183.09	103.69	54.00	39.18	35.05	31.26	26.96
225.0	349.81	237.26	141.15	59.59	38.06	32.12	28.16	24.37	19.03
270.0	522.82	461.68	461.68	153.03	65.54	36.60	30.14	26.18	22.91
315.0	293.49	186.27	102.22	48.31	31.95	27.64	24.03	20.84	16.97
360.0	554.00	420.95	277.65	175.77	80.43	41.08	32.90	27.56	23.94

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	20.93	16.88	15.07	14.12	13.26	12.83	12.31	12.06	11.80
45.0	25.23	21.10	16.71	15.67	14.38	13.78	13.26	12.92	12.49
90.0	22.56	15.76	14.81	13.69	13.09	12.75	12.40	11.97	11.63
135.0	30.92	25.75	16.79	15.16	14.12	13.35	12.92	12.49	12.14
180.0	16.10	14.73	13.61	12.92	12.49	12.14	11.88	11.63	11.28
225.0	15.50	14.55	13.69	13.00	12.66	12.40	12.06	11.63	11.37
270.0	18.60	15.50	14.55	13.69	12.92	12.57	12.31	11.97	11.63
315.0	15.42	14.30	13.52	13.09	12.66	12.31	12.06	11.63	11.37
360.0	20.93	16.88	15.07	14.12	13.26	12.83	12.31	12.06	11.80
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	11.45	11.28	11.02	10.94	10.76	10.76	10.59	10.51	10.51
45.0	12.06	11.80	11.54	11.28	11.11	11.02	10.76	10.68	10.59
90.0	11.37	11.20	10.94	10.85	10.68	10.59	10.51	10.42	10.33
135.0	11.88	11.54	11.37	11.20	11.02	10.85	10.76	10.59	10.51
180.0	11.11	10.94	10.85	10.76	10.59	10.59	10.42	10.33	10.33
225.0	11.11	10.85	10.76	10.68	10.59	10.51	10.42	10.33	10.25
270.0	11.37	11.11	10.85	10.76	10.68	10.59	10.51	10.42	10.33
315.0	11.20	11.02	10.85	10.76	10.68	10.59	10.42	10.33	10.33
360.0	11.45	11.28	11.02	10.94	10.76	10.76	10.59	10.51	10.51
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.42	10.33	10.33	10.25	10.25	10.25	10.16	10.16	10.16
45.0	10.51	10.51	10.42	10.33	10.33	10.25	10.16	10.16	10.16
90.0	10.25	10.25	10.25	10.16	10.16	10.08	10.08	10.08	10.08
135.0	10.42	10.42	10.33	10.25	10.16	10.16	10.16	10.08	10.08
180.0	10.25	10.25	10.16	10.16	10.16	10.08	10.08	10.08	10.08
225.0	10.25	10.16	10.16	10.08	10.08	9.99	9.99	9.99	9.99
270.0	10.33	10.25	10.25	10.16	10.08	10.08	10.08	10.08	9.99
315.0	10.25	10.25	10.16	10.16	10.08	10.08	9.99	9.99	9.99
360.0	10.42	10.33	10.33	10.25	10.25	10.25	10.16	10.16	10.16
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.08	10.08	10.08	10.08	10.08	10.08	9.99	10.08	9.99
45.0	10.08	10.08	10.08	9.99	9.99	9.99	9.99	9.99	9.99
90.0	9.99	9.99	9.99	9.99	9.90	9.90	9.90	9.90	9.90
135.0	10.08	10.08	10.08	9.99	10.08	9.99	9.99	9.99	9.99
180.0	10.08	9.99	9.99	9.99	9.99	9.99	9.90	9.90	9.90
225.0	9.99	9.90	9.99	9.90	9.90	9.90	9.90	9.90	9.90
270.0	9.99	9.99	9.99	9.99	9.90	9.99	9.90	9.90	9.90
315.0	9.99	9.90	9.99	9.99	9.90	9.90	9.90	9.90	9.90
360.0	10.08	10.08	10.08	10.08	10.08	10.08	9.99	10.08	9.99
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.99	9.99	9.99	9.99	9.90	9.90	9.99	9.90	9.99
45.0	9.90	9.99	9.99	9.90	9.90	9.90	9.82	9.82	9.82
90.0	9.90	9.90	9.90	9.99	9.99	9.90	9.82	9.73	9.73
135.0	9.90	9.99	9.99	9.99	10.08	10.08	9.90	9.90	9.82
180.0	9.90	9.90	9.90	9.99	9.90	9.82	9.90	9.90	9.90
225.0	9.90	9.90	9.82	9.82	9.82	9.73	9.82	9.82	9.73
270.0	9.90	9.90	9.90	9.90	9.82	9.82	9.82	9.82	9.82
315.0	9.90	9.90	9.90	9.90	9.82	9.90	9.82	9.82	9.82
360.0	9.99	9.99	9.99	9.99	9.90	9.90	9.99	9.90	9.99

Intensity data(cd)

C/ γ (°)	90.0
0.0	9.90
45.0	9.82
90.0	9.82
135.0	9.82
180.0	9.82
225.0	9.82
270.0	9.82
315.0	9.90
360.0	9.90