
AFX

Client:

LumCAT: AUGW0736LAJMV BK

Luminaire: LED灯具

Report No:

Ballast type:

Test No: LCZP23120166

Voltage(V): 119.970

LampCAT:

Current(A): 0.357

Lamp flux(lm): 3876.8

Power (W): 41.990

Number of Lamps: 1

PF: 0.981

Length(mm): 150

Width(mm): 40

Phm Type: C

Height(mm): 880

Photometric Results

Lumens(lm): 3876.84, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 92.33

Central intensity(cd): 28.757, Maximum intensity(cd): 1125.460

Angle of maximum intensity: C=90.0 γ =90.0

Beam Angle(50%Imax): [C0/180]Total=294.6

[C90/270]Total=113.6

Field angle(10%Imax): [C0/180]Total=342.6

[C90/270]Total=160.0

Maximum s/h(1/2): C0_180=3.99 C90_270=8.42

Maximum s/h(1/4): C0_180=3.77 C90_270=7.58

Up flux rate of lamp(%): 50.88%

Down flux rate of lamp(%): 49.12%

Up flux rate of LUM(%): 50.88%

Down flux rate of LUM(%): 49.12%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 18.190%

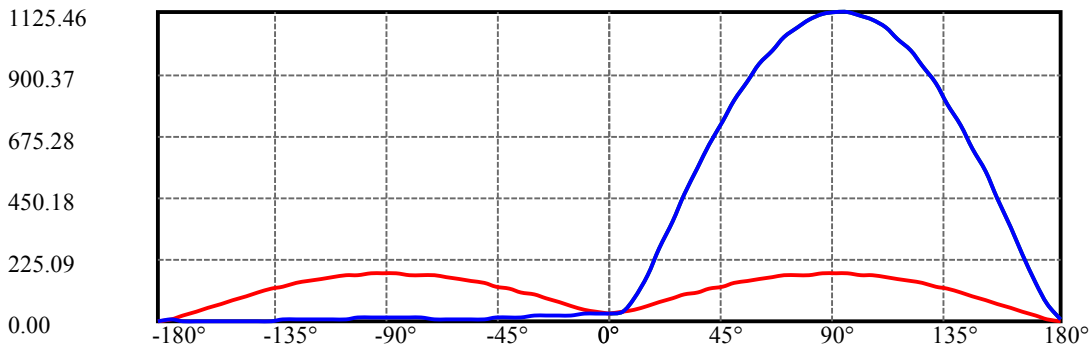
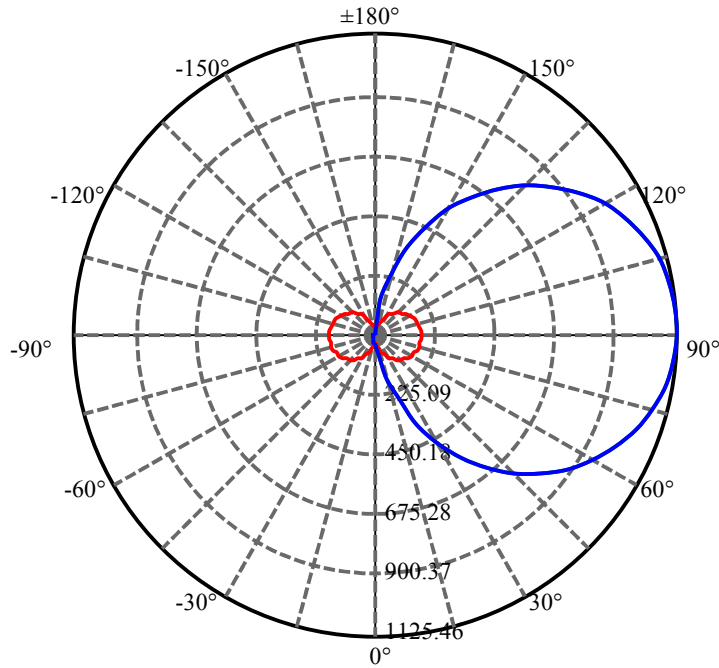
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	28.757	0.000	0	0.00%	0.00%
5.0	31.331	0.718	0.718	0.02%	0.02%
10.0	46.260	2.776	3.494	0.07%	0.09%
15.0	72.741	7.059	10.553	0.18%	0.27%
20.0	105.896	14.722	25.275	0.38%	0.65%
25.0	137.978	25.578	50.853	0.66%	1.31%
30.0	171.353	39.146	89.999	1.01%	2.32%
35.0	203.820	55.247	145.246	1.43%	3.75%
40.0	234.847	73.188	218.434	1.89%	5.63%
45.0	263.755	92.320	310.754	2.38%	8.02%
50.0	290.661	112.028	422.782	2.89%	10.91%
55.0	315.040	131.700	554.482	3.40%	14.30%
60.0	336.987	150.714	705.196	3.89%	18.19%
65.0	355.892	168.440	873.636	4.34%	22.53%
70.0	372.398	184.408	1058.044	4.76%	27.29%
75.0	385.859	198.196	1256.24	5.11%	32.40%
80.0	396.165	209.248	1465.488	5.40%	37.80%
85.0	403.143	217.191	1682.679	5.60%	43.40%
90.0	406.636	221.724	1904.402	5.72%	49.12%
95.0	406.291	222.586	2126.988	5.74%	54.86%
100.0	402.279	219.708	2346.696	5.67%	60.53%
105.0	394.920	213.308	2560.005	5.50%	66.03%
110.0	383.966	203.588	2763.593	5.25%	71.28%
115.0	369.154	190.695	2954.287	4.92%	76.20%
120.0	351.338	175.153	3129.44	4.52%	80.72%
125.0	329.975	157.484	3286.924	4.06%	84.78%
130.0	306.105	138.305	3425.229	3.57%	88.35%
135.0	279.181	118.266	3543.494	3.05%	91.40%
140.0	250.285	98.035	3641.529	2.53%	93.93%
145.0	219.153	78.322	3719.851	2.02%	95.95%
150.0	185.924	59.650	3779.502	1.54%	97.49%
155.0	151.573	42.711	3822.212	1.10%	98.59%
160.0	116.267	28.091	3850.304	0.72%	99.32%
165.0	80.841	16.244	3866.548	0.42%	99.73%
170.0	47.122	7.591	3874.139	0.20%	99.93%
175.0	20.283	2.411	3876.55	0.06%	99.99%
180.0	3.767	0.288	3876.838	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	90.00	2.32%	2.32%
0-40	218.43	5.63%	5.63%
0-60	705.20	18.19%	18.19%
0-90	1904.40	49.12%	49.12%
0-120	3129.44	80.72%	80.72%
0-180	3876.84	100.00%	100.00%
60-90	1199.21	30.93%	30.93%
90-120	1225.04	31.60%	31.60%
90-130	1520.83	39.23%	39.23%
90-150	1875.10	48.37%	48.37%
90-180	1972.15	50.87%	50.87%
0-119.20	3101.47	80.00%	80.00%

ZONAL LUMEN SUMMARY

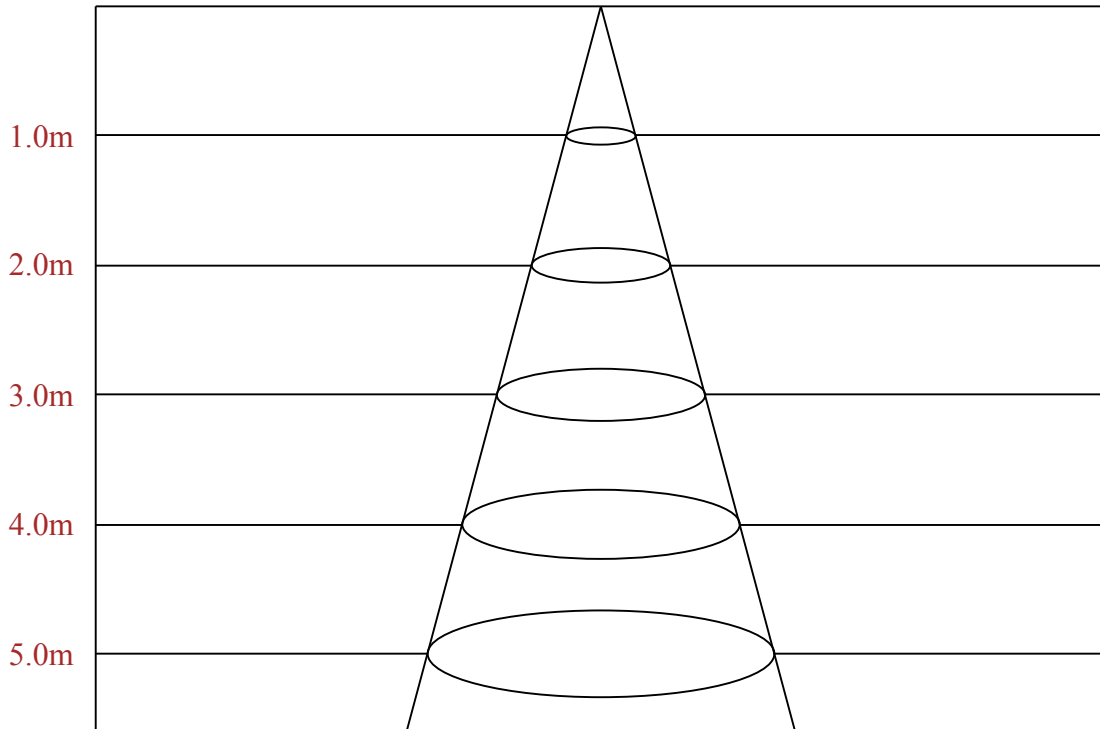
0-10	3.49
10-20	21.78
20-30	64.72
30-40	128.43
40-50	204.35
50-60	282.41
60-70	352.85
70-80	407.44
80-90	438.91
90-100	442.29
100-110	416.90
110-120	365.85
120-130	295.79
130-140	216.30
140-150	137.97
150-160	70.80
160-170	23.84
170-180	2.41



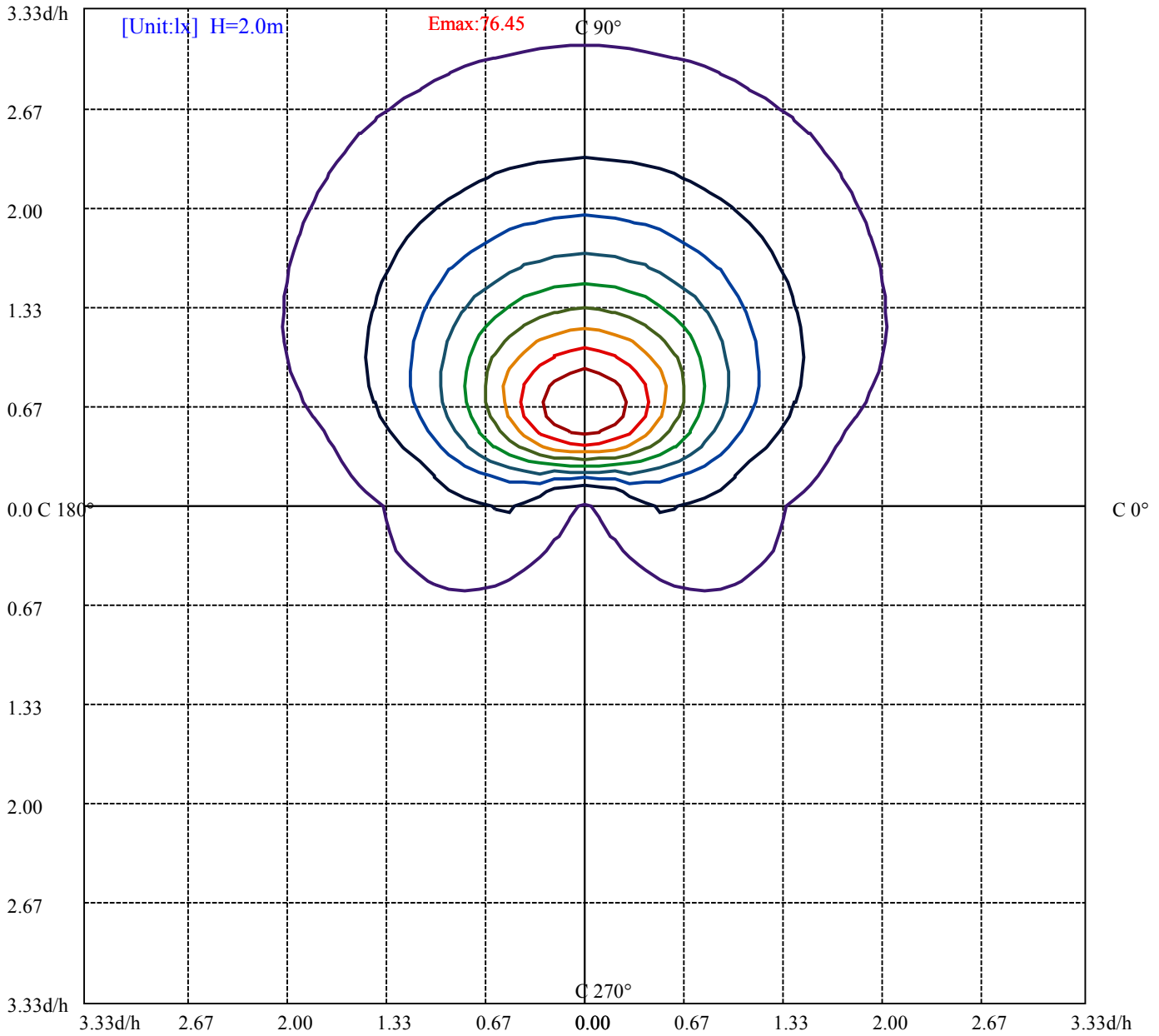
C90(Max): ——
 C0/C180: ——
 C90/C270: ——

Field angle(10%Imax):C0/180Left:261.3 Right:81.3
 :C90/270Left:78.2 Right:81.8

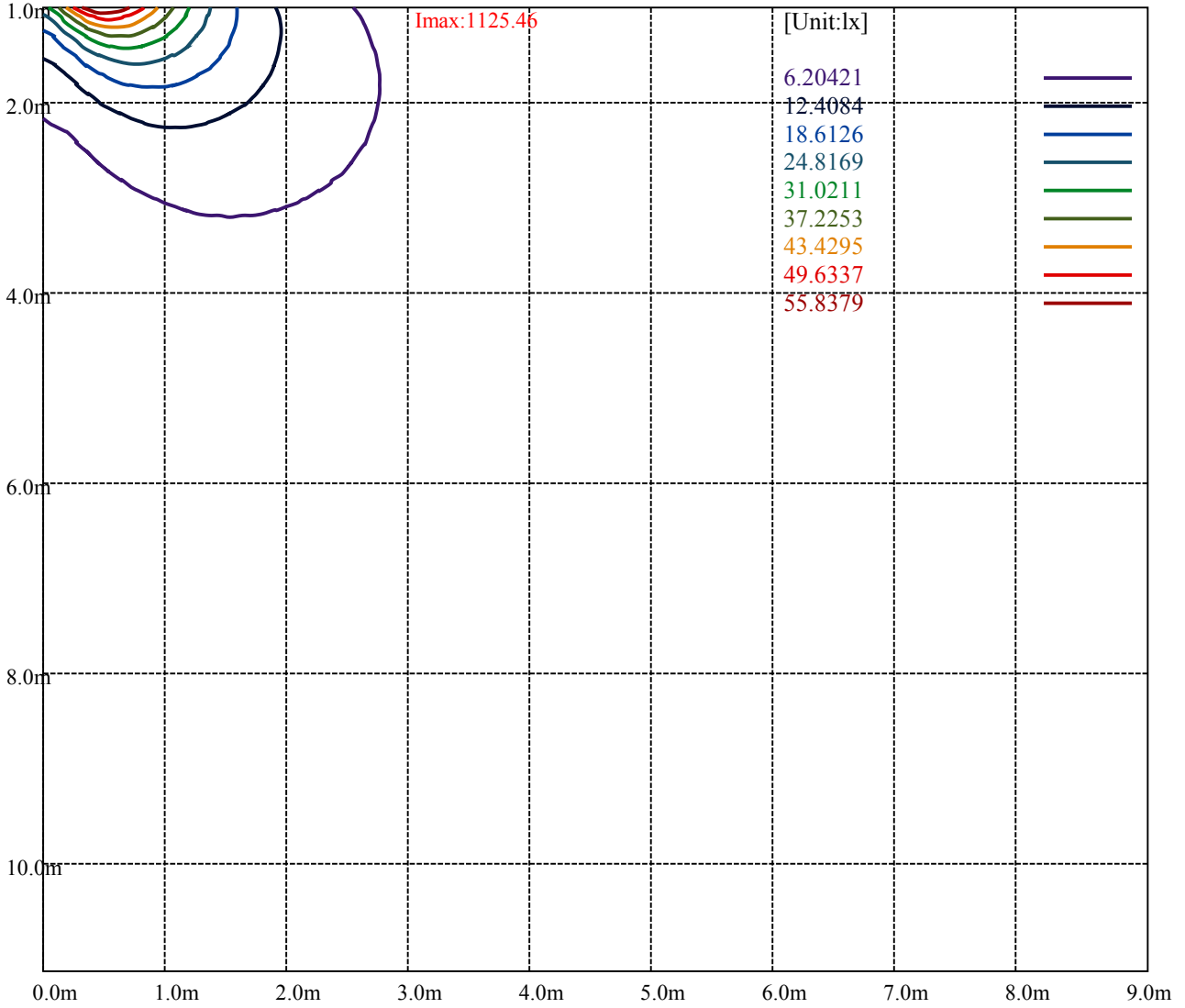
Beam Angle(50%Imax):C0/180Left:237.3 Right:57.3
 :C90/270Left:54.6 Right:59.0



Max , Ave Beam angle of C90 plane 220.15



- (10%Emax) 7.64545
- (20%Emax) 15.29093
- (30%Emax) 22.93637
- (40%Emax) 30.58175
- (50%Emax) 38.22725
- (60%Emax) 45.87275
- (70%Emax) 53.51825
- (80%Emax) 61.16375
- (90%Emax) 68.80925



Luminance Table

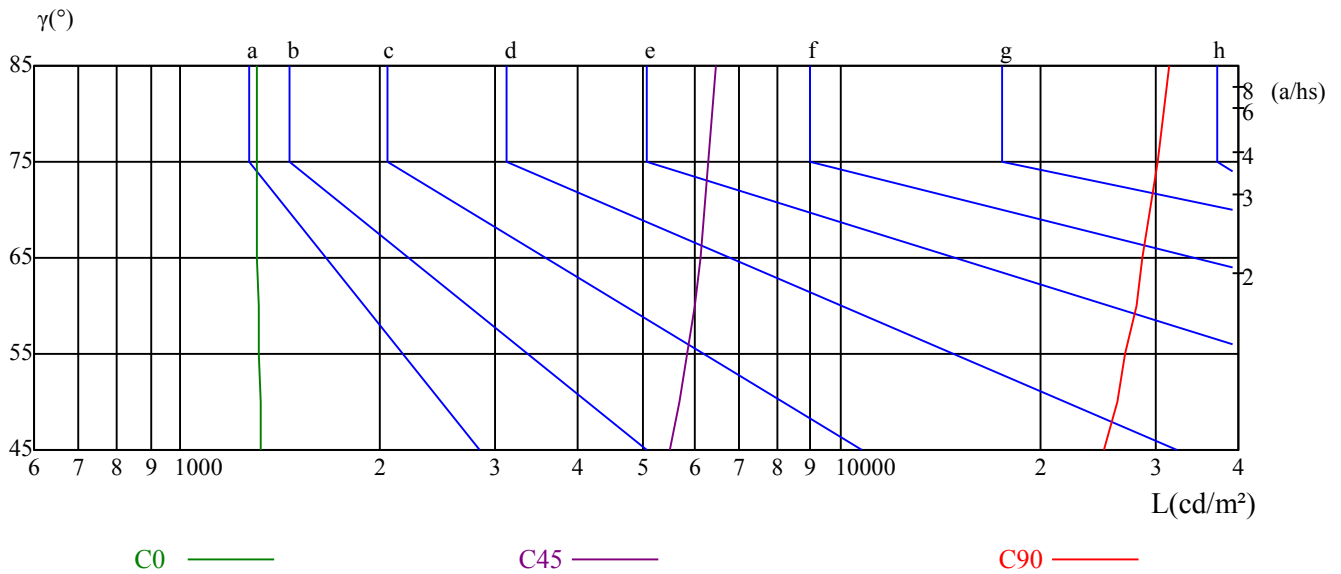
γ	45	50	55	60	65	70	75	80	85
C0	1324	1319	1313	1311	1307	1303	1303	1302	1303
C45	5508	5706	5869	6005	6114	6222	6305	6386	6460
C90	25027	26158	26993	28010	28698	29438	30106	30761	31385

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
62951	196515	147058	108292	348031	260901	328918	1079314	810892

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



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	1.07	1.07	1.07	0.99	0.99	0.99	0.83	0.83	0.83	0.68	0.68	0.68	0.55	0.55	0.55	0.49
1	0.85	0.79	0.73	0.78	0.72	0.67	0.64	0.60	0.56	0.51	0.48	0.45	0.40	0.37	0.35	0.29
2	0.71	0.62	0.55	0.65	0.57	0.51	0.53	0.47	0.42	0.42	0.37	0.33	0.32	0.28	0.25	0.20
3	0.60	0.51	0.43	0.55	0.47	0.40	0.45	0.38	0.33	0.35	0.30	0.26	0.26	0.22	0.19	0.14
4	0.52	0.43	0.35	0.48	0.39	0.32	0.39	0.32	0.26	0.30	0.25	0.20	0.22	0.18	0.15	0.11
5	0.46	0.36	0.29	0.42	0.33	0.26	0.34	0.27	0.22	0.26	0.21	0.17	0.20	0.15	0.12	0.08
6	0.41	0.31	0.24	0.37	0.28	0.22	0.30	0.23	0.18	0.23	0.18	0.14	0.17	0.13	0.10	0.07
7	0.36	0.27	0.21	0.33	0.25	0.19	0.27	0.20	0.15	0.21	0.16	0.12	0.16	0.11	0.08	0.05
8	0.32	0.24	0.18	0.30	0.22	0.16	0.24	0.18	0.13	0.19	0.14	0.10	0.14	0.10	0.07	0.04
9	0.29	0.21	0.15	0.27	0.19	0.14	0.22	0.16	0.11	0.17	0.12	0.09	0.13	0.09	0.06	0.04
10	0.27	0.19	0.14	0.24	0.17	0.12	0.20	0.14	0.10	0.16	0.11	0.08	0.12	0.08	0.05	0.03

Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	28.76	30.42	38.51	51.43	64.77	78.94	92.52	104.86	116.53
15.0	28.76	31.39	41.06	58.11	78.47	100.44	123.51	145.40	169.58
30.0	28.76	32.41	47.96	74.80	115.90	157.86	204.34	250.39	295.31
45.0	28.76	33.20	57.43	105.53	167.57	235.12	300.36	370.65	431.36
60.0	28.76	34.49	70.71	138.14	215.23	301.04	386.40	468.95	547.12
75.0	28.76	34.77	78.97	158.12	250.77	347.12	442.09	528.27	614.72
90.0	28.76	35.76	81.32	169.74	262.74	363.20	461.89	556.38	645.73
105.0	28.76	34.87	79.32	159.20	252.80	350.07	446.12	534.27	626.08
120.0	28.76	34.00	70.82	135.82	222.28	306.03	393.89	478.57	553.98
135.0	28.76	30.41	53.24	99.95	160.43	226.40	290.01	358.42	418.12
150.0	28.76	31.16	46.05	75.45	150.63	163.85	209.81	258.17	305.33
165.0	28.76	30.31	39.93	57.42	77.39	100.10	124.00	148.46	173.83
180.0	28.76	34.18	45.51	58.68	72.69	86.44	98.53	110.45	121.45
195.0	28.76	32.41	41.99	52.68	64.47	75.84	86.70	97.05	106.12
210.0	28.76	31.02	37.18	45.26	54.13	62.38	71.16	78.80	86.36
225.0	28.76	28.93	31.42	35.77	40.21	44.91	49.62	54.32	58.58
240.0	28.76	27.48	26.76	26.48	26.12	25.94	25.75	25.85	25.85
255.0	28.76	27.00	25.80	24.04	22.38	20.34	18.22	16.00	13.96
270.0	28.76	27.08	25.96	24.09	22.31	20.26	18.11	15.78	13.73
285.0	28.76	27.44	26.03	24.53	22.74	20.58	18.51	16.16	15.88
300.0	28.76	28.20	28.01	28.29	28.29	28.66	28.94	29.04	29.13
315.0	28.76	28.23	31.63	36.34	40.96	46.19	50.89	55.25	59.43
330.0	28.76	32.36	40.04	48.82	58.44	67.96	77.12	85.62	93.39
345.0	28.76	34.44	44.60	57.06	69.79	81.78	93.97	104.59	114.75
360.0	28.76	30.42	38.51	51.43	64.77	78.94	92.52	104.86	116.53
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	126.95	136.37	144.29	151.79	157.62	162.54	166.13	168.96	170.54
15.0	190.44	211.23	230.48	247.96	263.65	276.04	288.34	296.48	302.93
30.0	338.14	375.41	414.42	444.57	473.32	497.74	517.72	533.10	544.31
45.0	491.09	546.57	596.80	641.45	679.70	713.52	739.97	760.47	774.59
60.0	619.83	687.45	744.42	798.84	846.52	886.29	918.96	943.26	959.91
75.0	695.63	770.16	837.57	897.67	950.29	994.40	1029.07	1056.26	1074.20
90.0	729.11	806.23	871.22	937.88	988.30	1034.15	1070.37	1098.38	1116.96
105.0	703.43	779.27	848.16	908.96	962.25	1006.79	1043.25	1070.88	1089.68
120.0	633.97	698.70	766.15	818.04	866.94	908.25	941.50	966.89	983.93
135.0	476.59	531.05	580.46	624.21	661.51	694.45	719.63	739.94	753.97
150.0	347.40	392.06	428.03	465.11	493.22	518.93	540.29	556.84	567.84
165.0	194.89	216.69	237.20	255.98	272.83	287.12	299.75	308.82	316.06
180.0	131.45	140.54	148.62	155.71	161.62	166.04	170.21	172.38	173.46
195.0	115.71	123.68	130.47	137.09	142.26	146.50	149.89	152.52	154.05
210.0	93.31	99.65	105.30	110.08	114.16	117.64	120.50	123.20	124.85
225.0	62.40	66.21	69.50	72.34	74.82	77.49	80.41	82.72	83.88
240.0	25.85	26.21	26.48	26.85	27.30	29.39	31.03	32.58	33.49
255.0	12.30	10.63	9.34	8.23	8.32	9.34	10.36	10.45	11.56
270.0	11.95	10.36	9.06	8.78	8.31	9.43	10.55	11.39	11.86
285.0	12.12	10.71	9.40	8.27	8.27	9.30	10.15	11.18	11.56
300.0	29.32	29.60	29.98	30.26	30.72	32.60	34.28	35.60	36.34
315.0	63.27	67.01	70.32	73.03	75.55	78.08	80.61	82.70	83.75
330.0	100.79	107.45	113.18	118.17	122.24	125.66	128.71	131.30	132.88
345.0	124.19	132.61	140.12	146.44	151.66	155.88	158.90	161.65	162.84
360.0	126.95	136.37	144.29	151.79	157.62	162.54	166.13	168.96	170.54

Intensity data(cd)

C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	170.96	171.21	169.79	167.38	163.54	157.37	150.62	142.54	133.12
15.0	307.08	307.85	305.73	300.89	292.58	280.96	266.62	251.10	230.74
30.0	550.56	551.08	546.56	536.75	521.63	501.13	477.93	448.30	414.07
45.0	782.57	782.49	774.59	760.92	740.77	712.01	676.78	636.04	592.01
60.0	968.20	967.83	959.10	942.53	917.23	886.02	845.34	793.92	737.23
75.0	1083.63	1083.07	1074.10	1054.04	1028.79	991.34	944.46	889.45	832.76
90.0	1125.46	1125.18	1114.26	1095.40	1066.82	1028.08	984.10	927.52	863.66
105.0	1098.89	1098.04	1087.61	1069.66	1041.94	1003.97	956.70	902.94	838.01
120.0	993.02	992.55	983.37	966.32	940.66	905.25	861.69	814.95	757.53
135.0	761.90	761.55	753.97	741.16	721.72	694.45	660.72	621.25	579.16
150.0	574.69	575.15	569.97	560.35	544.54	522.72	498.49	467.79	432.29
165.0	320.27	320.82	318.44	314.04	305.34	293.16	278.14	260.74	240.77
180.0	173.29	172.04	169.38	165.13	159.37	151.96	143.62	134.20	123.28
195.0	154.14	153.29	151.00	147.27	142.09	135.64	128.18	119.02	109.60
210.0	125.28	124.33	122.24	119.03	114.68	109.30	102.87	95.39	87.23
225.0	84.32	83.70	82.19	79.79	76.60	72.87	71.36	62.40	56.72
240.0	33.76	33.58	33.49	31.85	30.21	28.30	26.03	23.48	20.75
255.0	11.56	11.47	11.10	10.26	9.15	8.04	6.57	5.09	3.88
270.0	11.86	11.67	11.30	10.46	9.43	8.12	6.63	4.95	3.73
285.0	11.75	11.56	11.18	10.43	9.40	8.27	6.77	5.45	4.23
300.0	36.53	36.16	35.22	33.82	31.94	29.98	27.35	24.64	21.73
315.0	83.75	82.79	81.13	78.52	75.20	71.20	66.49	61.09	55.34
330.0	132.78	131.77	129.45	126.13	121.41	115.68	109.02	100.79	92.65
345.0	163.02	161.83	159.54	155.97	150.11	143.88	135.64	126.39	116.04
360.0	170.96	171.21	169.79	167.38	163.54	157.37	150.62	142.54	133.12
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	122.45	110.78	98.78	85.19	70.68	56.26	39.76	25.17	11.92
15.0	210.80	187.64	163.13	137.26	112.06	83.90	58.79	34.78	16.29
30.0	374.98	333.27	288.88	244.13	195.31	146.22	99.04	57.34	23.89
45.0	539.56	481.95	419.82	353.61	284.11	217.72	147.78	83.52	32.57
60.0	674.43	604.27	532.56	447.92	367.38	280.48	197.12	111.30	45.78
75.0	759.81	683.43	601.13	513.19	425.54	323.64	230.24	136.02	54.46
90.0	791.67	713.24	631.82	545.64	445.09	345.00	246.77	142.67	60.88
105.0	769.87	692.90	609.26	520.08	431.08	333.15	234.10	138.24	56.29
120.0	692.89	621.61	547.70	465.74	379.47	290.57	201.49	120.74	49.93
135.0	525.39	473.36	413.50	349.79	282.96	218.38	150.67	87.41	35.47
150.0	392.52	349.25	305.14	256.32	205.83	155.16	108.00	60.84	27.37
165.0	220.08	196.26	170.90	144.06	117.69	90.30	63.38	38.28	17.86
180.0	112.11	98.44	85.86	71.77	57.68	42.09	28.01	15.09	5.92
195.0	99.17	87.80	75.75	63.79	50.81	47.59	24.18	12.47	5.17
210.0	78.63	76.37	60.12	49.61	39.70	29.28	19.11	10.34	4.52
225.0	51.12	44.91	38.52	31.86	25.38	18.46	12.69	7.19	3.46
240.0	18.29	16.02	13.92	11.74	9.74	7.92	6.01	4.37	2.73
255.0	3.05	2.77	2.50	2.68	2.77	2.96	3.14	2.87	2.87
270.0	2.89	2.61	2.43	2.80	2.89	3.08	3.27	2.80	3.64
285.0	3.48	3.20	3.10	3.29	3.48	3.67	3.76	2.82	4.42
300.0	19.02	16.58	14.43	12.08	10.12	8.15	6.37	5.06	4.68
315.0	49.50	43.14	36.77	30.24	23.70	16.91	11.15	7.06	4.71
330.0	83.31	73.60	63.06	52.61	41.52	30.33	19.70	11.00	5.64
345.0	105.32	93.42	80.59	66.76	52.75	39.20	25.64	13.55	6.32
360.0	122.45	110.78	98.78	85.19	70.68	56.26	39.76	25.17	11.92

Intensity data(cd)

C/ γ ($^{\circ}$)	180.0
0.0	5.17
15.0	5.51
30.0	6.17
45.0	6.92
60.0	7.83
75.0	8.23
90.0	9.71
105.0	9.68
120.0	10.02
135.0	8.37
150.0	6.94
165.0	5.86
180.0	0.00
195.0	0.00
210.0	0.00
225.0	0.00
240.0	0.00
255.0	0.00
270.0	0.00
285.0	0.00
300.0	0.00
315.0	0.00
330.0	0.00
345.0	0.00
360.0	5.17