

---

乐达凯

---

Client:

LumCAT: AUGW0612LAJMVBK

Luminaire: LED 灯具

Report No:

Ballast type:

Test No:

Voltage(V): 120.020

LampCAT:

Current(A): 0.203

Lamp flux(lm): 1922.8

Power (W): 24.170

Number of Lamps: 1

PF: 0.992

Length(mm): 110

Width(mm): 50

Phm Type: C

Height(mm): 270

---

Photometric Results

---

Lumens(lm): 1922.75, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 79.55

Central intensity(cd): 47.605, Maximum intensity(cd): 409.580

Angle of maximum intensity: C=75.0  $\gamma$ =90.0

Beam Angle(50%Imax): [C0/180]Total=308.4

[C90/270]Total=119.4

Field angle(10%Imax): [C0/180]Total=347.0

[C90/270]Total=186.9

Maximum s/h(1/2): C0\_180=2.90 C90\_270=4.73

Maximum s/h(1/4): C0\_180=2.87 C90\_270=4.44

Up flux rate of lamp(%): 49.15%

Down flux rate of lamp(%): 50.85%

Up flux rate of LUM(%): 49.15%

Down flux rate of LUM(%): 50.85%

CIE Type : General diffuse lighting

Output flux ratio in  $\pi$  solid angle : 20.867%

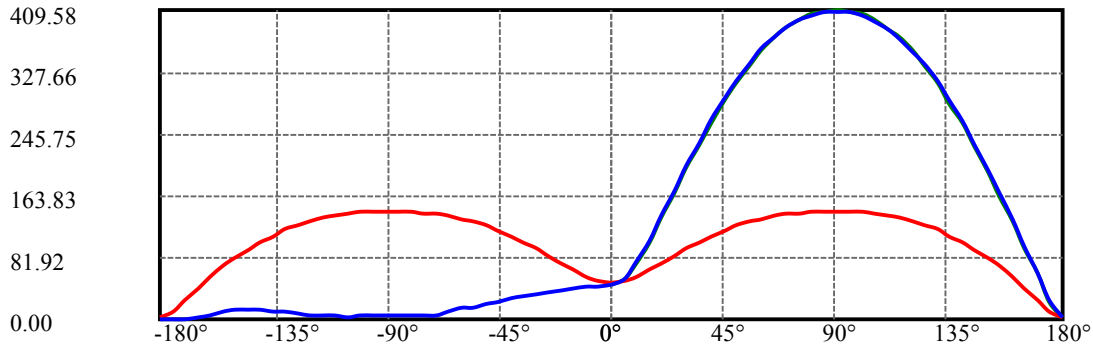
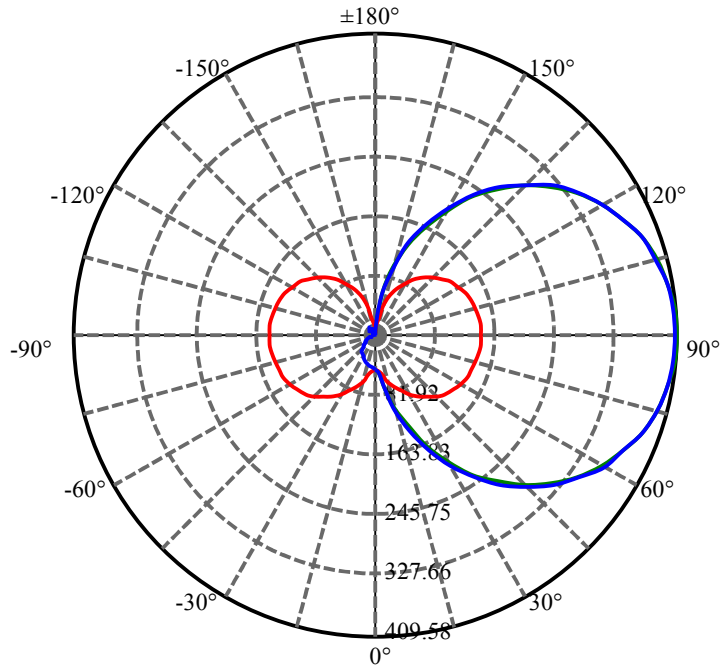
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	46.332	0.000	0	0.00%	0.00%
5.0	48.166	1.130	1.13	0.06%	0.06%
10.0	56.474	3.743	4.873	0.19%	0.25%
15.0	67.926	7.379	12.252	0.38%	0.64%
20.0	81.362	12.303	24.556	0.64%	1.28%
25.0	94.349	18.429	42.985	0.96%	2.24%
30.0	107.784	25.580	68.565	1.33%	3.57%
35.0	120.546	33.623	102.188	1.75%	5.31%
40.0	132.709	42.254	144.442	2.20%	7.51%
45.0	143.824	51.202	195.644	2.66%	10.18%
50.0	153.630	60.105	255.749	3.13%	13.30%
55.0	162.350	68.704	324.454	3.57%	16.87%
60.0	169.797	76.775	401.228	3.99%	20.87%
65.0	175.935	84.048	485.277	4.37%	25.24%
70.0	180.875	90.347	575.623	4.70%	29.94%
75.0	184.580	95.524	671.147	4.97%	34.91%
80.0	187.874	99.658	770.806	5.18%	40.09%
85.0	190.007	102.679	873.485	5.34%	45.43%
90.0	190.830	104.276	977.761	5.42%	50.85%
95.0	189.895	104.245	1082.007	5.42%	56.27%
100.0	187.836	102.639	1184.645	5.34%	61.61%
105.0	184.505	99.628	1284.273	5.18%	66.79%
110.0	180.052	95.289	1379.563	4.96%	71.75%
115.0	174.363	89.740	1469.303	4.67%	76.42%
120.0	167.065	83.002	1552.305	4.32%	80.73%
125.0	158.420	75.235	1627.54	3.91%	84.65%
130.0	148.503	66.735	1694.275	3.47%	88.12%
135.0	137.088	57.708	1751.983	3.00%	91.12%
140.0	124.625	48.458	1800.441	2.52%	93.64%
145.0	110.778	39.275	1839.717	2.04%	95.68%
150.0	96.070	30.460	1870.176	1.58%	97.27%
155.0	80.688	22.369	1892.545	1.16%	98.43%
160.0	64.184	15.194	1907.74	0.79%	99.22%
165.0	46.108	9.090	1916.829	0.47%	99.69%
170.0	27.994	4.396	1921.225	0.23%	99.92%
175.0	10.741	1.386	1922.611	0.07%	99.99%
180.0	1.310	0.144	1922.755	0.01%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	68.56	3.57%	3.57%
0-40	144.44	7.51%	7.51%
0-60	401.23	20.87%	20.87%
0-90	977.76	50.85%	50.85%
0-120	1552.31	80.73%	80.73%
0-180	1922.75	100.00%	100.00%
60-90	576.53	29.98%	29.98%
90-120	574.54	29.88%	29.88%
90-130	716.51	37.27%	37.26%
90-150	892.42	46.41%	46.41%
90-180	944.85	49.14%	49.14%
0-119.15	1538.20	80.00%	80.00%

## ZONAL LUMEN SUMMARY

0-10	4.87
10-20	19.68
20-30	44.01
30-40	75.88
40-50	111.31
50-60	145.48
60-70	174.39
70-80	195.18
80-90	206.96
90-100	206.88
100-110	194.92
110-120	172.74
120-130	141.97
130-140	106.17
140-150	69.74
150-160	37.56
160-170	13.49
170-180	1.39



C75(Max): ——

C0/C180: ——

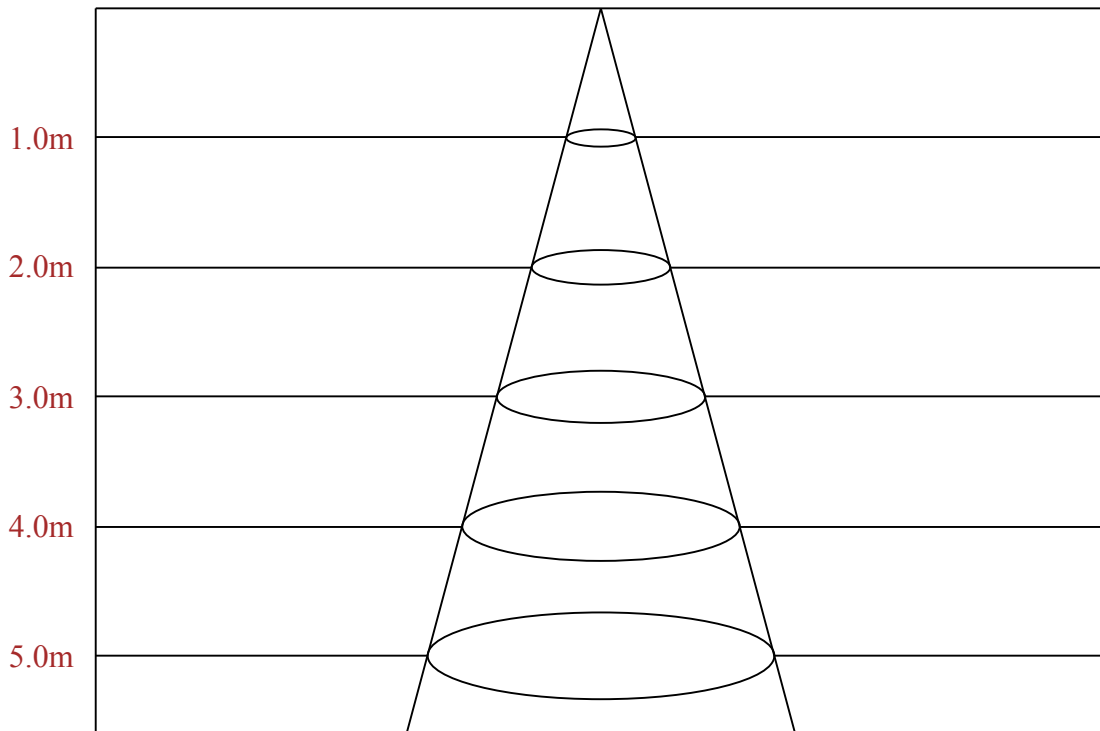
C90/C270: ——

Field angle(10%Imax):C0/180Left:263.5 Right:83.5

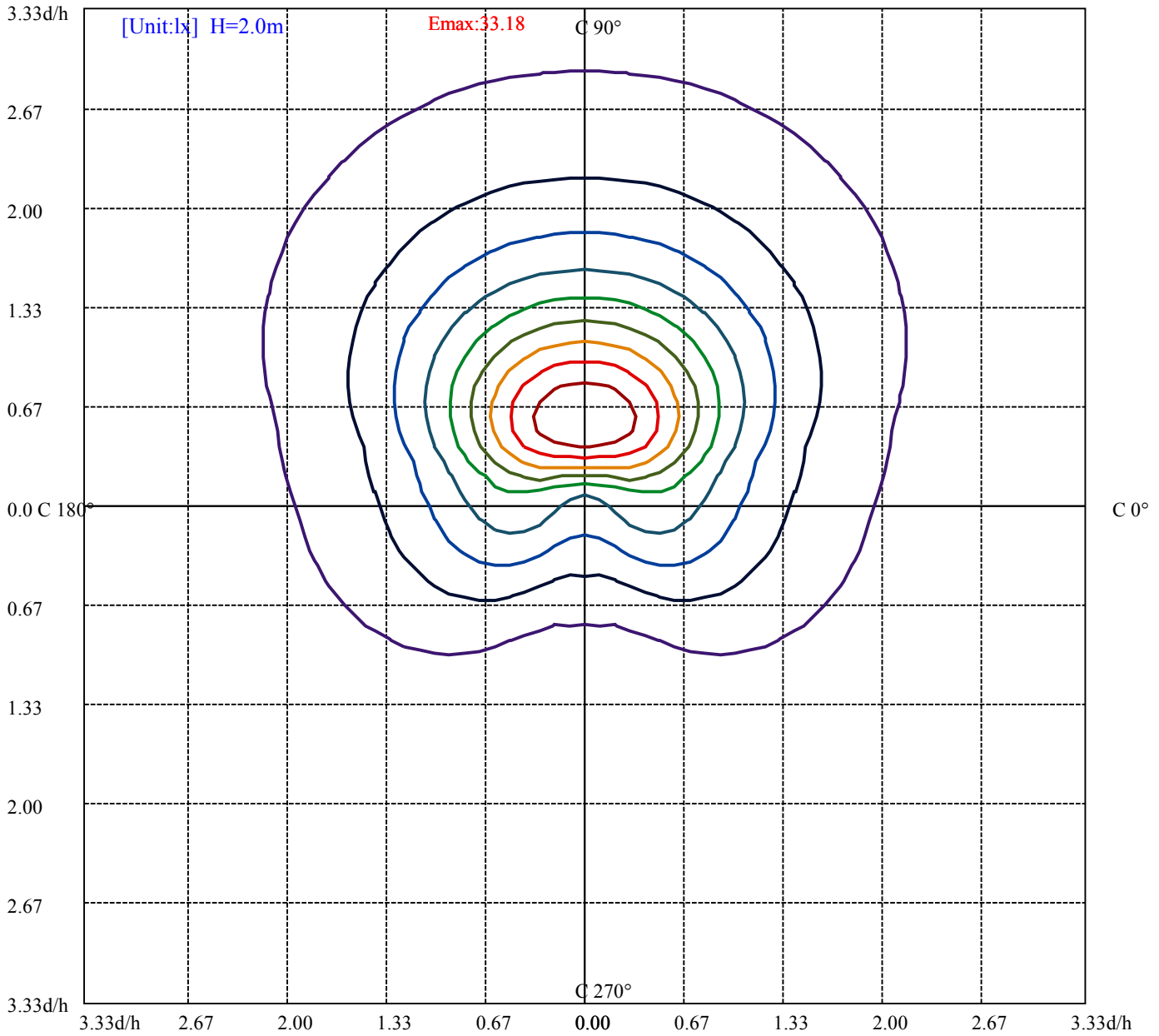
:C90/270Left:104.0 Right:82.9

Beam Angle(50%Imax):C0/180Left:244.2 Right:64.2

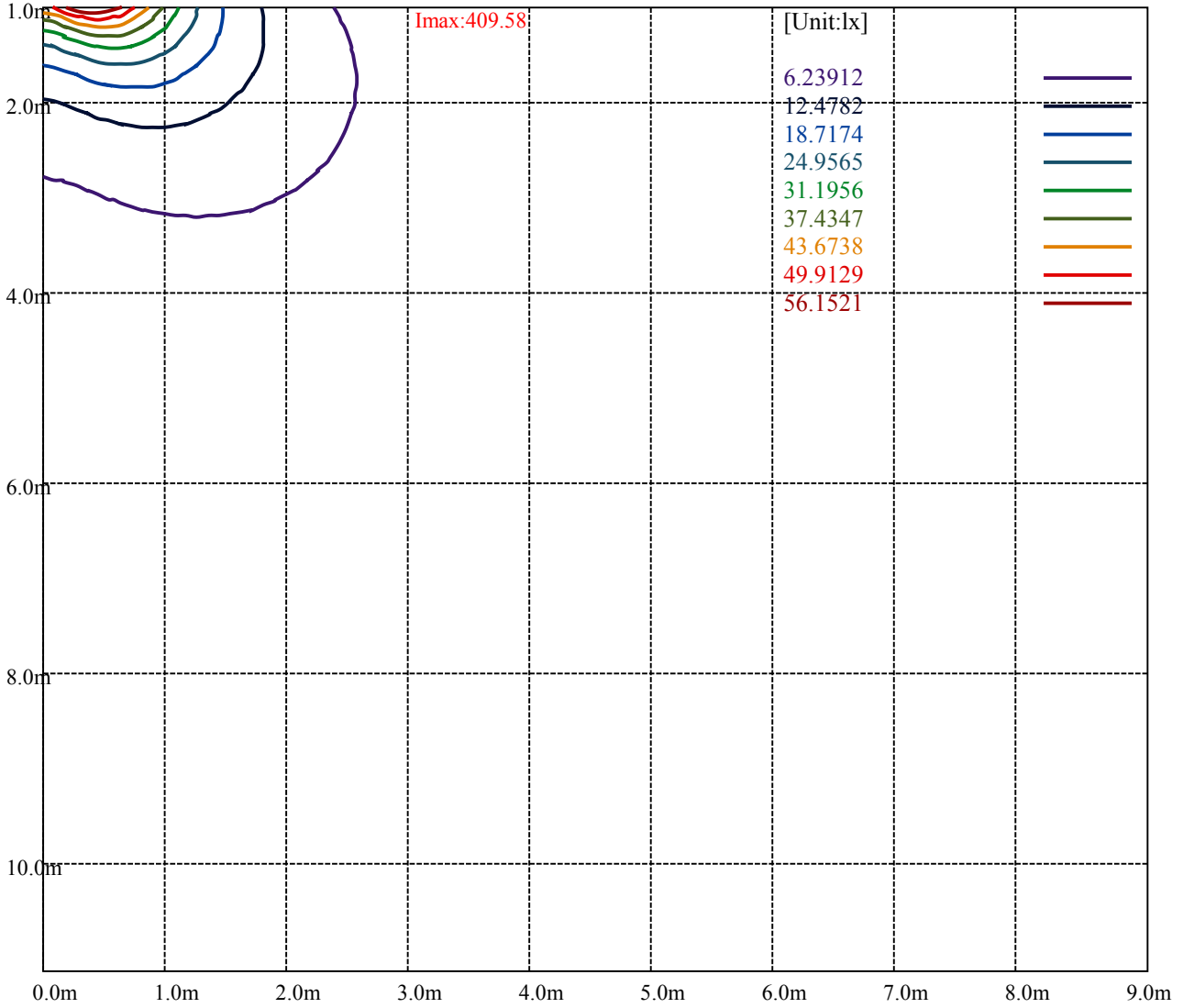
:C90/270Left:60.1 Right:59.3



Max , Ave      Beam angle of C75 plane 222.55



- (10%Emax) 3.31805
- (20%Emax) 6.6361
- (30%Emax) 9.95415
- (40%Emax) 13.2722
- (50%Emax) 16.59025
- (60%Emax) 19.9083
- (70%Emax) 23.22635
- (80%Emax) 26.5445
- (90%Emax) 29.8625



Luminance Table

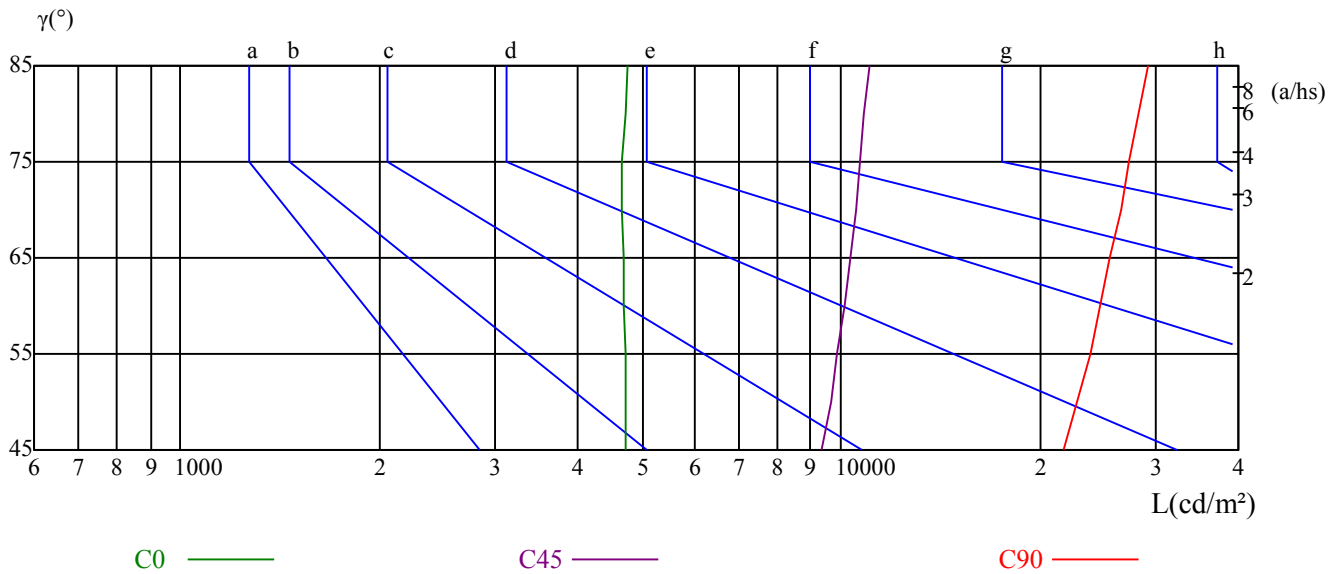
$\gamma$	45	50	55	60	65	70	75	80	85
C0	4727	4715	4706	4685	4684	4673	4668	4713	4765
C45	9373	9670	9898	10119	10326	10513	10672	10867	11042
C90	21728	22784	23824	24754	25602	26514	27387	28238	29149

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
58929	82115	81439	98748	140708	140077	298865	428155	429560

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	0.84	0.84	0.84	0.70	0.70	0.70	0.57	0.57	0.57	0.51
1	0.86	0.80	0.74	0.79	0.73	0.69	0.65	0.61	0.57	0.53	0.50	0.47	0.42	0.39	0.37	0.32
2	0.72	0.64	0.57	0.66	0.58	0.52	0.54	0.48	0.43	0.43	0.39	0.35	0.34	0.30	0.27	0.22
3	0.61	0.52	0.45	0.56	0.48	0.41	0.46	0.39	0.34	0.37	0.32	0.27	0.28	0.24	0.21	0.16
4	0.53	0.44	0.36	0.49	0.40	0.33	0.40	0.33	0.28	0.32	0.26	0.22	0.24	0.20	0.17	0.13
5	0.47	0.37	0.30	0.43	0.34	0.28	0.35	0.28	0.23	0.28	0.22	0.18	0.21	0.17	0.14	0.10
6	0.41	0.32	0.25	0.38	0.29	0.23	0.31	0.24	0.19	0.25	0.19	0.15	0.19	0.15	0.11	0.08
7	0.37	0.28	0.22	0.34	0.26	0.20	0.28	0.21	0.16	0.22	0.17	0.13	0.17	0.13	0.10	0.07
8	0.33	0.25	0.19	0.30	0.23	0.17	0.25	0.19	0.14	0.20	0.15	0.11	0.15	0.11	0.08	0.06
9	0.30	0.22	0.16	0.28	0.20	0.15	0.23	0.17	0.12	0.18	0.13	0.10	0.14	0.10	0.07	0.05
10	0.27	0.20	0.14	0.25	0.18	0.13	0.21	0.15	0.11	0.17	0.12	0.09	0.13	0.09	0.06	0.04

## Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	47.60	48.50	53.89	62.87	72.75	81.74	92.51	101.50	110.48
15.0	46.71	48.50	54.79	66.47	79.04	93.41	108.68	123.05	135.63
30.0	46.71	48.50	59.28	76.35	96.11	118.56	139.22	161.68	183.23
45.0	46.71	50.30	64.67	87.13	113.17	141.02	169.76	197.60	224.55
60.0	45.81	51.20	70.06	97.01	127.54	159.88	190.42	220.96	249.70
75.0	45.81	52.99	75.45	104.19	134.73	167.96	201.20	232.63	261.38
90.0	45.81	52.99	75.45	105.09	137.42	171.56	204.79	234.43	264.07
105.0	45.81	52.10	74.55	101.50	132.93	166.17	199.40	230.84	259.58
120.0	45.81	50.30	70.06	95.21	123.95	154.49	184.13	213.77	241.62
135.0	47.60	49.40	65.57	85.33	108.68	132.93	158.98	184.13	207.48
150.0	45.81	49.40	59.28	74.55	105.99	109.58	127.54	144.61	161.68
165.0	45.81	49.40	56.59	66.47	77.25	88.92	99.70	109.58	120.36
180.0	47.60	51.20	59.28	67.37	76.35	86.23	95.21	103.29	110.48
195.0	46.71	49.40	55.69	62.87	70.96	78.14	86.23	92.51	98.80
210.0	46.71	47.60	52.10	57.48	62.87	68.26	72.75	78.14	81.74
225.0	46.71	46.71	48.50	50.30	52.99	55.69	57.48	59.28	61.08
240.0	45.81	44.91	44.91	44.91	44.01	43.11	42.22	40.42	39.52
255.0	45.81	44.91	43.11	41.32	38.62	35.93	33.23	30.54	26.95
270.0	45.81	44.01	42.22	40.42	38.62	35.93	33.23	29.64	26.95
285.0	45.81	44.01	42.22	40.42	38.62	36.83	33.23	30.54	29.64
300.0	45.81	44.01	43.11	43.11	43.11	44.01	44.01	44.01	44.01
315.0	47.60	44.91	45.81	48.50	52.10	54.79	58.38	61.98	65.57
330.0	45.81	44.91	48.50	53.89	59.28	65.57	71.86	78.14	83.53
345.0	45.81	45.81	50.30	57.48	65.57	73.65	82.63	89.82	97.01
360.0	47.60	48.50	53.89	62.87	72.75	81.74	92.51	101.50	110.48
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	118.56	124.85	131.14	135.63	139.22	141.92	143.71	145.51	146.41
15.0	149.10	159.88	171.56	179.64	187.72	194.01	199.40	202.99	204.79
30.0	202.99	220.96	237.13	251.50	262.27	273.05	280.24	285.63	289.22
45.0	247.90	271.26	290.12	308.08	323.35	335.93	344.91	352.09	356.59
60.0	277.54	302.69	324.25	344.01	361.08	375.45	386.23	393.41	397.90
75.0	290.12	314.37	336.83	356.59	374.55	388.02	397.90	405.99	409.58
90.0	291.92	316.17	338.62	357.48	372.75	386.23	396.11	402.39	405.99
105.0	288.32	311.68	334.13	353.89	370.96	384.43	394.31	401.50	405.99
120.0	267.66	291.02	312.57	330.54	346.71	359.28	369.16	376.35	380.84
135.0	229.94	249.70	267.66	282.93	296.41	307.18	315.27	322.45	326.05
150.0	177.84	193.11	205.69	217.36	227.24	235.33	241.62	246.11	249.70
165.0	128.44	136.53	142.81	149.10	153.59	158.08	160.78	162.57	164.37
180.0	116.77	123.05	127.54	131.14	134.73	136.53	137.42	139.22	140.12
195.0	104.19	108.68	112.28	114.97	117.66	119.46	120.36	122.16	123.05
210.0	85.33	88.02	90.72	92.51	93.41	94.31	94.31	96.11	97.01
225.0	61.98	62.87	63.77	62.87	62.87	61.98	61.98	62.87	63.77
240.0	37.72	35.93	34.13	31.44	29.64	27.84	26.05	26.95	26.95
255.0	23.35	19.76	16.17	12.57	8.98	6.29	4.49	4.49	4.49
270.0	23.35	19.76	16.17	15.27	8.98	6.29	4.49	4.49	4.49
285.0	24.25	20.66	17.96	14.37	11.68	8.08	6.29	7.19	8.08
300.0	44.01	44.01	43.11	43.11	41.32	40.42	40.42	41.32	43.11
315.0	68.26	70.06	71.86	73.65	74.55	74.55	75.45	76.35	77.25
330.0	88.92	92.51	96.11	98.80	101.50	103.29	104.19	105.09	106.89
345.0	103.29	109.58	114.07	117.66	121.26	123.05	124.85	125.75	127.54
360.0	118.56	124.85	131.14	135.63	139.22	141.92	143.71	145.51	146.41

## Intensity data(cd)

C/ $\gamma$ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	147.30	146.41	146.41	144.61	142.81	139.22	134.73	131.14	124.85
15.0	206.59	204.79	202.99	199.40	194.01	187.72	180.54	170.66	159.88
30.0	291.02	289.22	286.53	281.14	273.05	264.07	252.39	237.13	221.86
45.0	358.38	356.59	352.09	345.81	336.83	325.15	309.88	292.81	272.15
60.0	399.70	397.90	393.41	386.23	376.35	362.87	345.81	326.95	304.49
75.0	411.38	410.48	405.99	398.80	388.02	375.45	358.38	338.62	315.27
90.0	407.78	405.99	401.50	395.21	385.33	370.96	354.79	337.72	315.27
105.0	407.78	405.99	401.50	393.41	382.63	370.06	352.09	332.33	308.98
120.0	381.74	379.04	375.45	367.36	358.38	344.91	329.64	308.98	288.32
135.0	326.95	325.15	321.56	315.27	306.29	295.51	282.04	264.97	246.11
150.0	250.60	249.70	245.21	241.62	234.43	225.45	215.57	202.99	188.62
165.0	165.27	164.37	162.57	159.88	156.29	150.90	145.51	138.32	129.34
180.0	140.12	140.12	138.32	137.42	133.83	130.24	124.85	119.46	112.28
195.0	123.05	122.16	121.26	119.46	116.77	114.07	109.58	104.19	97.90
210.0	97.01	96.11	94.31	93.41	91.62	88.92	85.33	80.84	76.35
225.0	63.77	62.87	61.98	60.18	59.28	57.48	56.59	52.10	49.40
240.0	26.95	26.95	26.05	24.25	24.25	24.25	23.35	22.46	22.46
255.0	4.49	4.49	4.49	4.49	4.49	6.29	7.19	8.98	9.88
270.0	4.49	4.49	4.49	3.59	4.49	5.39	6.29	7.19	8.98
285.0	8.08	8.08	8.08	8.08	8.08	8.98	9.88	10.78	12.57
300.0	43.11	43.11	42.22	41.32	41.32	40.42	39.52	39.52	37.72
315.0	79.04	78.14	77.25	76.35	75.45	73.65	70.96	68.26	65.57
330.0	107.78	107.78	106.89	105.09	103.29	101.50	97.90	93.41	88.92
345.0	127.54	127.54	127.54	125.75	123.95	121.26	116.77	112.28	106.89
360.0	147.30	146.41	146.41	144.61	142.81	139.22	134.73	131.14	124.85
C/ $\gamma$ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	116.77	108.68	98.80	88.02	76.35	61.08	44.91	27.84	11.68
15.0	148.20	134.73	121.26	105.09	88.02	70.96	52.10	33.23	13.47
30.0	202.99	182.33	160.78	138.32	114.07	90.72	66.47	40.42	14.37
45.0	249.70	224.55	197.60	169.76	141.02	110.48	81.74	50.30	18.86
60.0	279.34	251.50	220.96	189.52	158.08	123.95	91.62	56.59	22.46
75.0	289.22	263.17	232.63	200.30	165.27	132.04	96.11	61.98	24.25
90.0	289.22	261.38	231.74	199.40	167.07	132.04	97.90	61.98	25.15
105.0	282.93	255.99	225.45	193.11	159.88	127.54	92.51	59.28	23.35
120.0	264.07	237.13	207.48	177.84	147.30	114.97	83.53	52.10	20.66
135.0	225.45	201.20	176.95	150.90	123.95	97.90	71.86	44.01	16.17
150.0	171.56	153.59	134.73	115.87	96.11	76.35	54.79	33.23	11.68
165.0	119.46	108.68	97.01	84.43	71.86	57.48	41.32	26.05	9.88
180.0	104.19	95.21	86.23	74.55	63.77	50.30	36.83	21.56	8.08
195.0	90.72	82.63	73.65	64.67	53.89	51.20	31.44	17.07	5.39
210.0	70.96	69.16	58.38	51.20	43.11	35.03	24.25	11.68	3.59
225.0	46.71	43.11	38.62	35.03	31.44	25.15	15.27	6.29	0.90
240.0	21.56	21.56	20.66	18.86	17.96	14.37	7.19	2.69	0.90
255.0	11.68	12.57	14.37	13.47	12.57	8.08	1.80	0.90	0.90
270.0	10.78	11.68	12.57	12.57	10.78	5.39	1.80	0.90	0.90
285.0	13.47	14.37	14.37	13.47	12.57	8.98	5.39	1.80	0.90
300.0	35.93	33.23	30.54	27.84	25.15	19.76	13.47	7.19	2.69
315.0	61.08	55.69	50.30	44.91	39.52	33.23	23.35	13.47	4.49
330.0	83.53	76.35	69.16	61.98	53.89	43.11	33.23	18.86	7.19
345.0	100.60	92.51	84.43	74.55	62.87	50.30	37.72	22.46	9.88
360.0	116.77	108.68	98.80	88.02	76.35	61.08	44.91	27.84	11.68

Intensity data(cd)

C/ $\gamma$ (°)	180.0
0.0	5.39
15.0	1.80
30.0	1.80
45.0	1.80
60.0	1.80
75.0	1.80
90.0	1.80
105.0	2.69
120.0	3.59
135.0	3.59
150.0	3.59
165.0	1.80
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	5.39