
乐达凯

Client:

LumCAT: AUGW0612LAJMVBK

Luminaire: LED 灯具

Report No:

Ballast type:

Test No: LCZP24030156

Voltage(V): 120.060

LampCAT:

Current(A): 0.204

Lamp flux(lm): 1849.8

Power (W): 24.120

Number of Lamps: 1

PF: 0.987

Length(mm): 110

Width(mm): 50

Phm Type: C

Height(mm): 270

Photometric Results

Lumens(lm): 1849.80, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 76.69

Central intensity(cd): 44.379, Maximum intensity(cd): 398.225

Angle of maximum intensity: C=75.0 γ =90.0

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

[C90/270]Total=119.5

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

[C90/270]Total=187.4

Maximum s/h(1/2): C0_180=2.90 C90_270=4.74

Maximum s/h(1/4): C0_180=2.87 C90_270=4.45

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 π solid angle : 20.866%

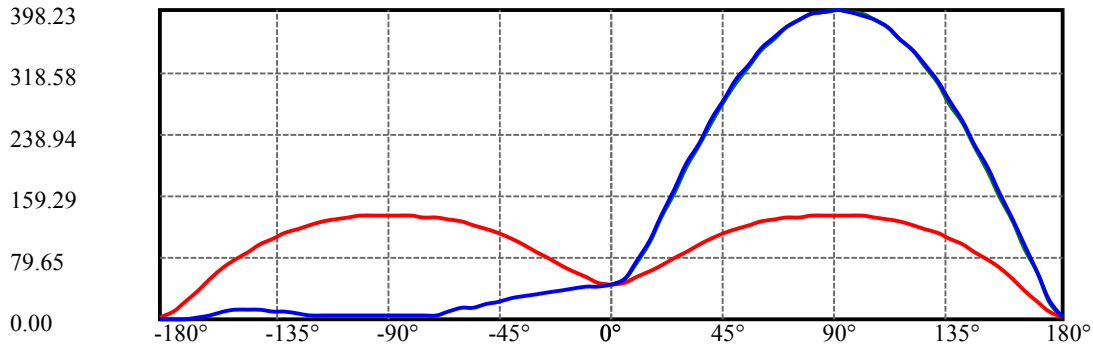
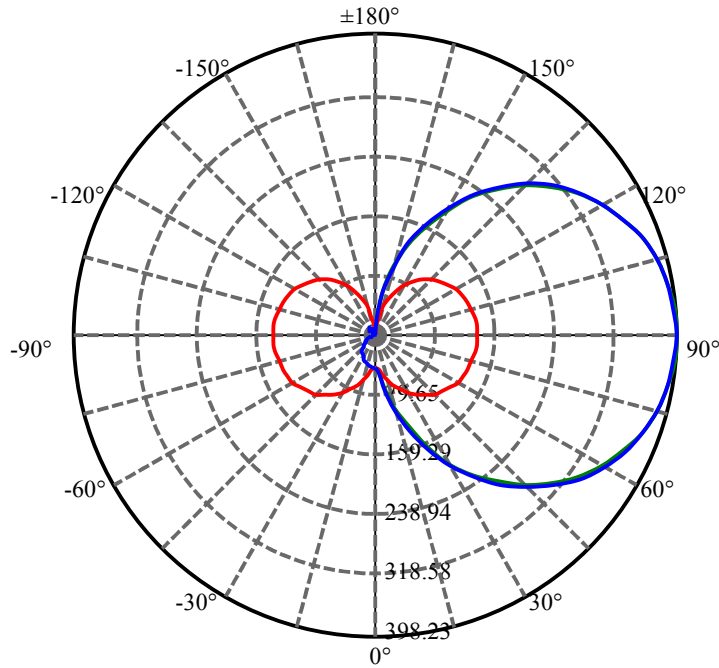
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	44.379	0.000	0	0.00%	0.00%
5.0	46.229	1.083	1.083	0.06%	0.06%
10.0	54.304	3.596	4.68	0.19%	0.25%
15.0	65.271	7.093	11.773	0.38%	0.64%
20.0	78.195	11.824	23.596	0.64%	1.28%
25.0	90.766	17.721	41.317	0.96%	2.23%
30.0	103.608	24.598	65.915	1.33%	3.56%
35.0	115.991	32.338	98.253	1.75%	5.31%
40.0	127.669	40.653	138.906	2.20%	7.51%
45.0	138.348	49.255	188.161	2.66%	10.17%
50.0	147.797	57.820	245.981	3.13%	13.30%
55.0	156.218	66.103	312.084	3.57%	16.87%
60.0	163.470	73.895	385.978	3.99%	20.87%
65.0	169.241	80.883	466.861	4.37%	25.24%
70.0	174.029	86.918	553.779	4.70%	29.94%
75.0	177.574	91.903	645.683	4.97%	34.91%
80.0	180.786	95.887	741.57	5.18%	40.09%
85.0	182.810	98.798	840.368	5.34%	45.43%
90.0	183.652	100.340	940.708	5.42%	50.85%
95.0	182.724	100.317	1041.025	5.42%	56.28%
100.0	180.690	98.748	1139.773	5.34%	61.62%
105.0	177.420	95.820	1235.593	5.18%	66.80%
110.0	173.200	91.647	1327.24	4.95%	71.75%
115.0	167.657	86.307	1413.547	4.67%	76.42%
120.0	160.761	79.839	1493.386	4.32%	80.73%
125.0	152.416	72.390	1565.775	3.91%	84.65%
130.0	142.829	64.196	1629.972	3.47%	88.12%
135.0	131.902	55.513	1685.485	3.00%	91.12%
140.0	119.950	46.632	1732.117	2.52%	93.64%
145.0	106.551	37.790	1769.907	2.04%	95.68%
150.0	92.441	29.303	1799.21	1.58%	97.27%
155.0	77.663	21.527	1820.737	1.16%	98.43%
160.0	61.721	14.619	1835.356	0.79%	99.22%
165.0	44.329	8.740	1844.096	0.47%	99.69%
170.0	26.920	4.226	1848.322	0.23%	99.92%
175.0	10.413	1.336	1849.658	0.07%	99.99%
180.0	1.258	0.140	1849.797	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	65.92	3.56%	3.56%
0-40	138.91	7.51%	7.51%
0-60	385.98	20.87%	20.87%
0-90	940.71	50.85%	50.85%
0-120	1493.39	80.73%	80.73%
0-180	1849.80	100.00%	100.00%
60-90	554.73	29.99%	29.99%
90-120	552.68	29.88%	29.88%
90-130	689.26	37.26%	37.26%
90-150	858.50	46.41%	46.41%
90-180	908.95	49.14%	49.14%
0-119.15	1479.84	80.00%	80.00%

ZONAL LUMEN SUMMARY

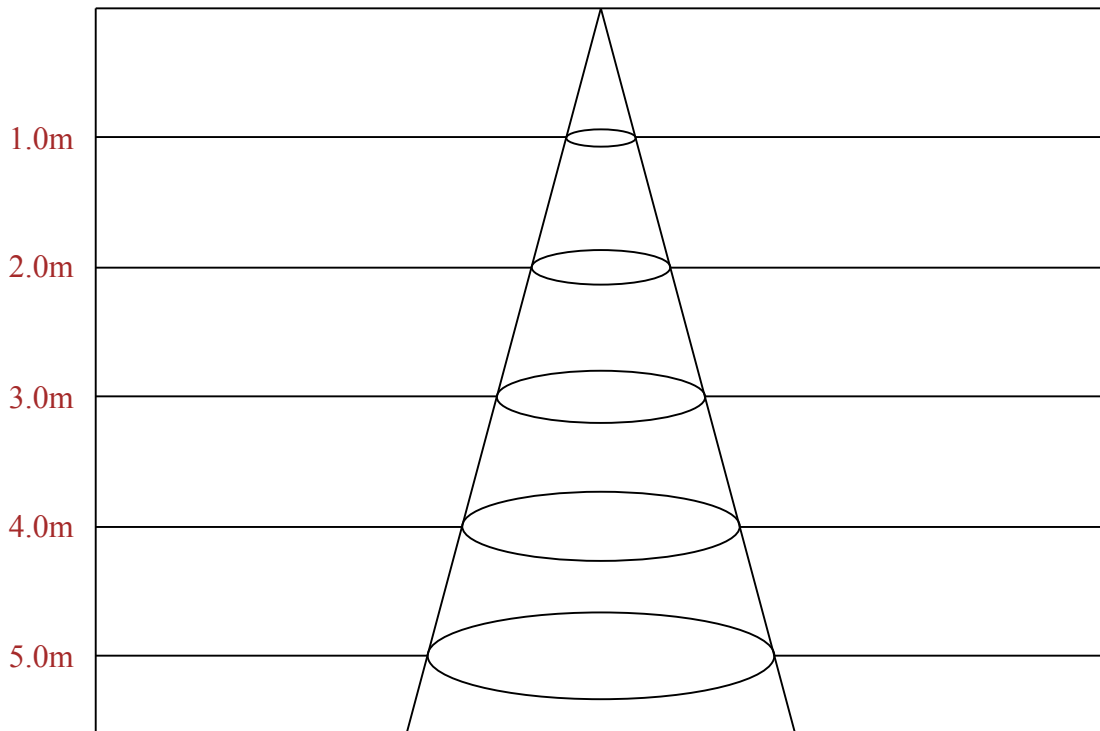
0-10	4.68
10-20	18.92
20-30	42.32
30-40	72.99
40-50	107.07
50-60	140.00
60-70	167.80
70-80	187.79
80-90	199.14
90-100	199.06
100-110	187.47
110-120	166.15
120-130	136.59
130-140	102.15
140-150	67.09
150-160	36.15
160-170	12.97
170-180	1.34



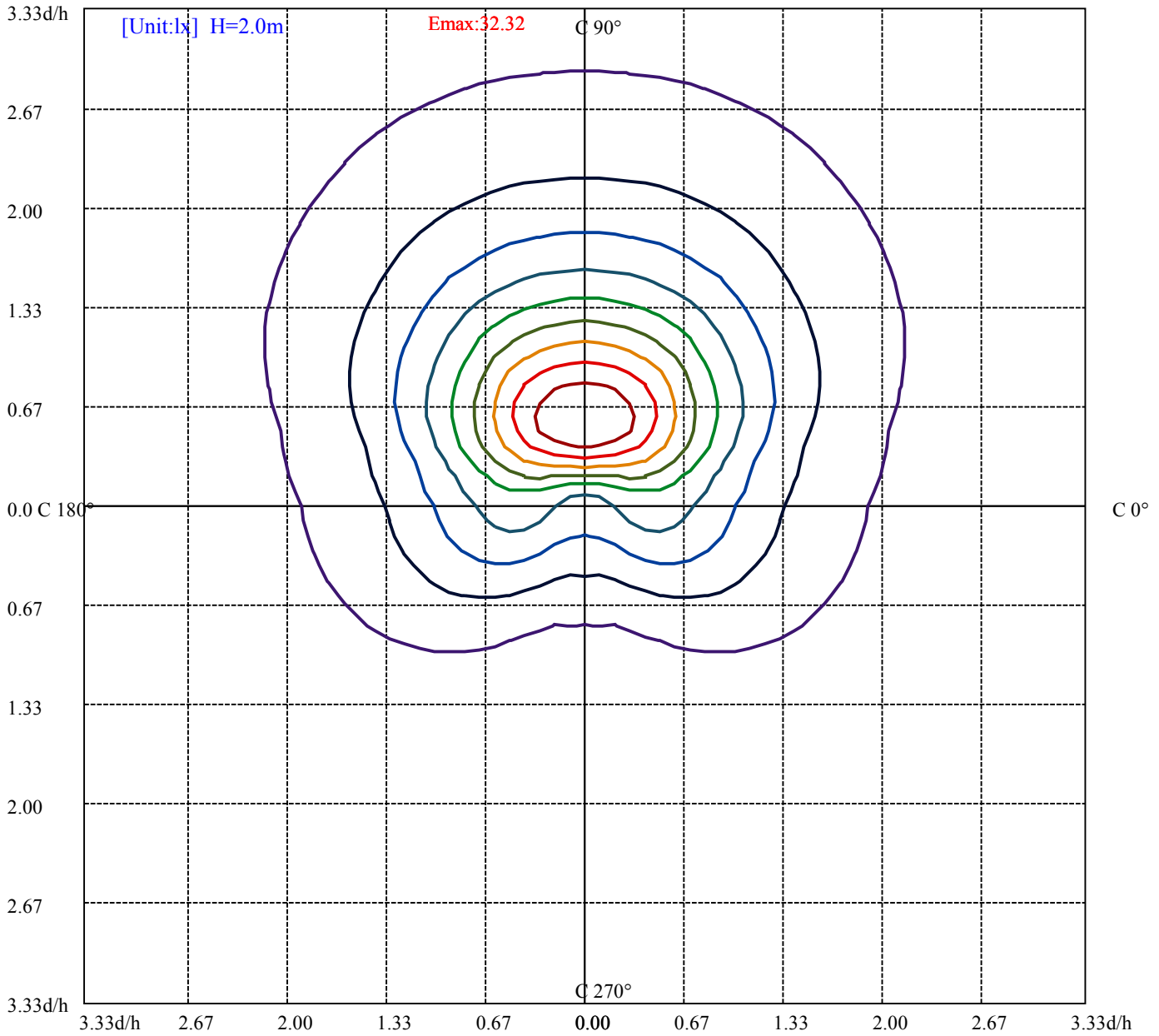
C75(Max): ———
 C0/C180: ———
 C90/C270: ———

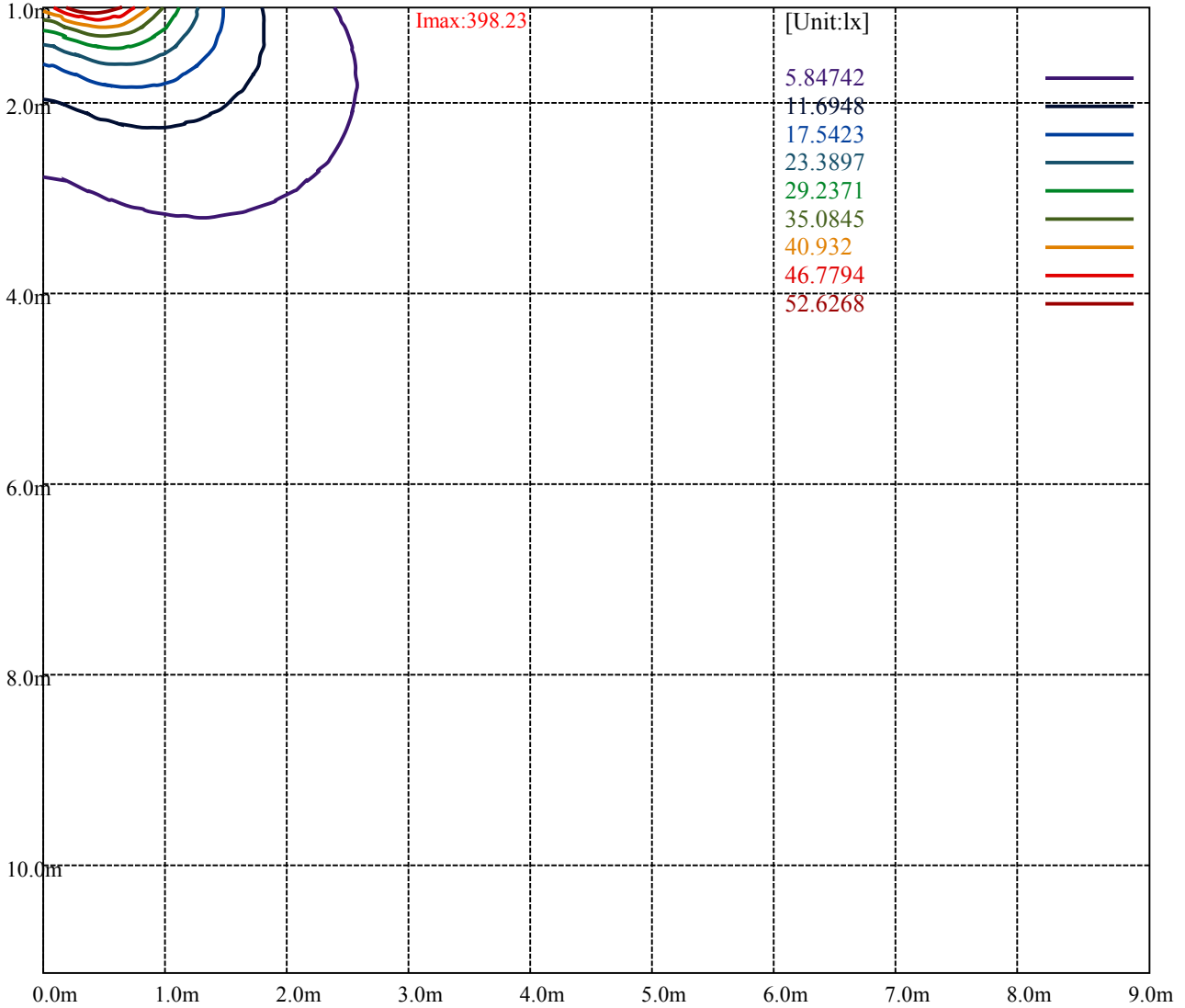
Field angle(10%Imax):C0/180Left:263.5 Right:83.5
 :C90/270Left:104.5 Right:82.9

Beam Angle(50%Imax):C0/180Left:244.2 Right:64.2
 :C90/270Left:60.1 Right:59.4



Max , Ave Beam angle of C75 plane 223.02





Luminance Table

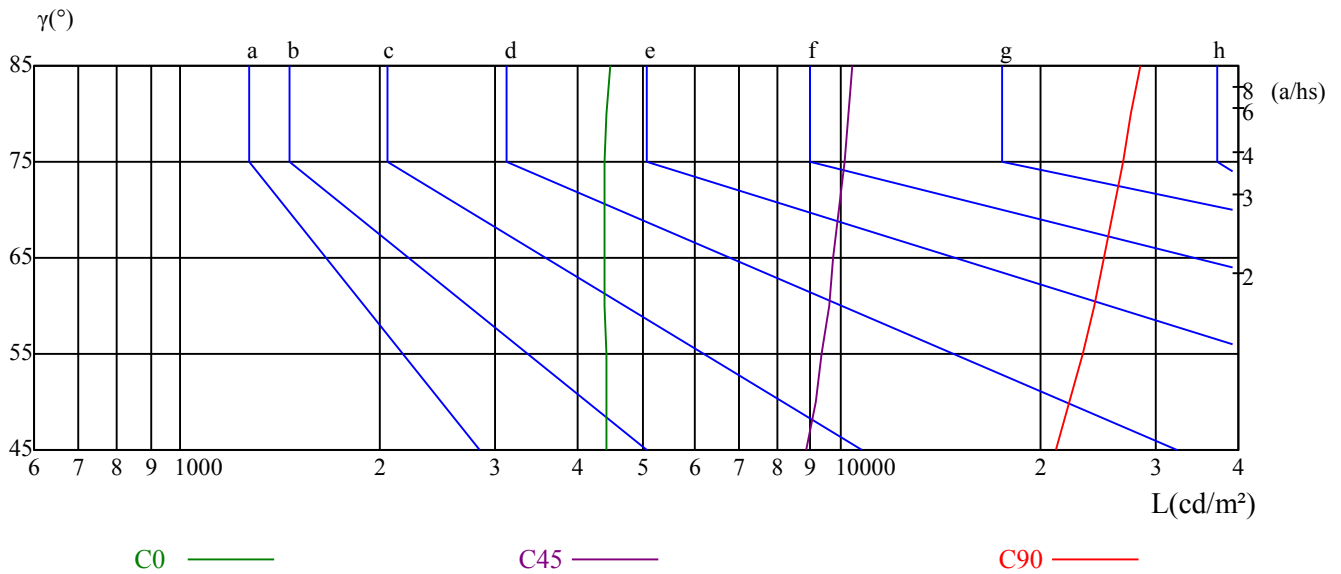
γ	45	50	55	60	65	70	75	80	85
C0	4428	4412	4403	4389	4382	4380	4384	4418	4466
C45	8866	9151	9362	9576	9766	9942	10106	10277	10438
C90	21155	22222	23222	24168	24973	25830	26676	27523	28421

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
55131	80134	76970	92727	136993	132559	280112	417653	406272

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/ γ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	44.38	45.17	50.68	59.00	68.10	76.94	86.31	95.32	103.46
15.0	44.38	45.35	52.04	62.25	74.84	88.41	102.23	115.70	127.59
30.0	44.38	45.89	56.59	73.16	91.25	112.82	132.60	153.90	174.40
45.0	44.38	47.96	61.86	83.65	108.66	135.38	162.72	189.62	215.35
60.0	44.38	49.43	67.92	93.63	122.76	154.15	183.65	213.32	241.38
75.0	44.38	51.19	73.06	100.83	130.78	163.45	195.76	226.34	253.66
90.0	44.38	51.40	73.63	102.34	134.23	167.31	199.48	228.45	257.43
105.0	44.38	50.93	72.30	98.49	129.41	161.87	193.88	224.62	252.27
120.0	44.38	49.39	68.07	93.04	120.74	150.81	179.34	208.68	235.84
135.0	44.38	46.38	60.82	79.19	100.85	123.74	147.75	171.25	193.53
150.0	44.38	48.12	57.71	72.96	103.37	106.65	124.37	140.99	157.79
165.0	44.38	48.21	55.52	64.83	75.43	86.47	97.34	107.20	117.70
180.0	44.38	47.62	55.93	62.94	71.51	80.70	88.76	96.55	103.55
195.0	44.38	46.58	52.39	59.26	66.57	73.96	81.01	87.35	93.16
210.0	44.38	45.72	49.55	54.54	59.53	64.70	69.78	74.32	78.15
225.0	44.38	44.47	46.26	48.59	51.01	53.08	55.14	56.93	58.45
240.0	44.38	43.48	43.30	43.03	42.48	41.76	40.68	39.33	37.97
255.0	44.38	43.20	41.75	40.02	37.75	35.21	32.40	29.40	26.32
270.0	44.38	43.10	41.37	39.55	37.45	34.99	32.17	29.25	26.24
285.0	44.38	42.92	41.38	39.74	37.74	35.47	32.65	29.92	29.10
300.0	44.38	43.29	42.28	42.10	42.10	42.74	43.01	43.10	43.10
315.0	44.38	41.51	42.38	44.81	48.12	51.34	54.65	57.87	60.74
330.0	44.38	43.83	47.03	52.23	57.98	64.19	70.49	76.43	81.91
345.0	44.38	44.38	49.49	56.34	64.01	72.23	80.45	87.94	94.97
360.0	44.38	45.17	50.68	59.00	68.10	76.94	86.31	95.32	103.46
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	110.73	116.94	122.63	126.75	130.42	133.14	134.97	136.37	137.42
15.0	140.36	150.66	161.49	169.50	176.99	183.15	187.46	191.07	193.28
30.0	193.38	210.66	226.17	239.54	250.41	260.75	267.16	272.51	276.16
45.0	237.76	260.62	278.46	295.77	309.93	321.95	331.18	337.91	341.67
60.0	268.08	292.07	313.27	332.30	348.53	361.97	372.53	379.65	384.07
75.0	281.88	305.11	327.44	346.68	363.47	377.17	385.98	394.69	397.59
90.0	284.22	308.37	330.06	349.01	363.59	376.26	385.83	392.21	395.85
105.0	280.28	303.01	324.93	344.57	360.67	374.49	383.95	390.86	395.50
120.0	261.08	284.04	304.91	322.59	338.08	350.47	360.22	367.06	371.43
135.0	214.24	232.34	249.13	263.57	276.19	286.20	293.94	300.03	303.60
150.0	173.59	188.29	201.16	212.49	222.17	230.11	236.14	240.70	244.08
165.0	125.56	133.23	139.80	145.83	150.49	154.14	156.69	159.07	160.99
180.0	109.68	115.02	119.39	123.16	125.87	127.80	129.02	130.51	131.12
195.0	98.00	102.41	106.02	108.75	110.95	112.44	113.41	114.82	115.53
210.0	81.45	84.12	86.35	87.96	89.11	89.65	90.27	91.43	92.32
225.0	59.53	60.34	60.79	60.70	60.34	59.80	59.62	60.61	61.41
240.0	36.44	34.73	32.65	30.67	28.50	26.52	25.44	26.07	26.43
255.0	22.87	19.33	15.88	12.34	8.89	5.90	4.17	4.27	4.63
270.0	22.87	19.41	16.04	15.04	8.93	5.92	4.19	4.47	4.56
285.0	23.92	20.46	17.46	14.00	11.19	8.28	6.46	7.09	7.46
300.0	43.10	42.83	42.37	41.64	40.64	39.82	39.28	40.37	41.64
315.0	63.44	65.52	67.18	68.31	69.18	69.61	70.05	70.83	72.31
330.0	86.66	90.77	94.24	96.98	98.98	100.72	101.82	103.00	104.19
345.0	101.27	106.84	111.40	115.15	118.25	120.44	122.00	123.27	124.19
360.0	110.73	116.94	122.63	126.75	130.42	133.14	134.97	136.37	137.42

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	137.86	137.51	136.90	135.41	133.49	130.51	126.48	122.54	116.77
15.0	194.51	193.36	190.99	187.99	182.71	177.25	169.85	160.87	150.66
30.0	277.77	276.16	273.13	267.88	260.57	251.39	240.79	225.99	211.47
45.0	343.91	342.12	338.08	331.54	323.20	311.82	297.47	280.89	261.34
60.0	385.88	383.89	379.38	372.89	362.88	349.89	333.65	315.25	293.87
75.0	399.41	398.59	394.05	387.16	377.17	364.19	347.86	328.89	306.29
90.0	397.22	395.67	391.75	385.10	375.44	362.14	346.10	328.97	307.01
105.0	397.04	395.04	390.77	382.67	372.31	359.85	342.93	323.47	300.74
120.0	372.62	369.79	366.24	358.04	349.11	336.17	321.49	301.72	281.13
135.0	304.82	302.91	299.25	293.42	284.98	275.41	262.44	246.87	229.38
150.0	244.72	243.63	239.43	235.68	229.29	220.61	210.20	198.24	183.91
165.0	161.44	160.71	158.89	156.42	153.04	147.56	142.08	134.87	126.29
180.0	131.30	130.95	129.90	128.41	125.61	121.84	117.12	111.52	104.95
195.0	115.88	115.35	114.29	112.53	110.15	107.07	103.02	98.18	92.46
210.0	92.59	91.70	90.27	88.94	87.06	84.57	81.09	77.26	72.81
225.0	61.59	60.61	59.35	57.92	56.84	55.14	54.51	50.39	47.70
240.0	26.34	25.71	25.53	23.63	23.27	23.00	22.55	21.92	21.47
255.0	4.72	4.54	4.36	3.99	4.63	5.90	7.17	8.53	9.71
270.0	4.56	4.47	4.28	3.92	4.47	5.19	5.92	7.38	8.84
285.0	7.91	7.91	7.82	7.55	8.18	8.91	9.91	10.91	11.91
300.0	42.37	42.19	41.37	40.37	40.10	39.55	38.91	38.18	36.91
315.0	73.27	73.09	72.05	71.09	70.05	68.57	66.48	63.78	60.65
330.0	105.01	104.92	104.19	102.64	101.36	98.98	95.70	91.41	86.84
345.0	124.92	124.55	124.28	122.91	120.90	118.25	114.51	109.94	104.83
360.0	137.86	137.51	136.90	135.41	133.49	130.51	126.48	122.54	116.77
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	109.76	101.71	92.70	82.19	71.69	57.42	41.93	25.82	11.29
15.0	139.83	127.32	113.94	99.06	83.21	67.18	49.40	31.08	12.50
30.0	193.64	174.04	153.10	132.24	108.99	86.80	63.63	38.76	13.55
45.0	239.29	215.08	189.89	162.45	135.38	105.79	78.09	48.50	17.84
60.0	269.34	242.37	213.32	182.84	152.35	119.79	88.13	54.93	22.01
75.0	280.97	255.56	225.70	194.30	160.91	128.24	92.93	59.99	23.51
90.0	282.22	255.06	225.90	194.56	163.30	128.85	95.32	60.42	24.79
105.0	275.46	248.99	219.62	188.34	155.23	123.68	89.85	57.75	22.55
120.0	257.16	230.91	202.76	173.14	143.34	112.27	81.65	50.58	20.50
135.0	209.80	187.61	165.07	140.36	115.30	91.02	66.57	40.72	14.97
150.0	167.56	150.21	131.86	113.59	94.24	74.69	53.97	32.23	11.60
165.0	116.79	106.47	94.60	82.82	70.40	56.43	40.73	25.11	9.68
180.0	97.77	89.46	80.35	69.68	59.61	46.83	34.49	20.57	7.53
195.0	85.85	78.10	69.65	60.84	50.81	48.25	29.59	15.76	5.46
210.0	67.64	66.30	55.70	49.19	41.26	33.24	22.99	11.41	3.56
225.0	44.56	41.06	37.21	33.44	30.03	24.21	14.61	6.28	1.17
240.0	21.11	20.48	19.57	18.04	17.14	13.71	7.13	2.35	0.72
255.0	10.98	12.43	13.61	13.07	12.07	7.44	2.09	0.82	0.73
270.0	10.30	11.57	11.94	12.30	10.84	5.29	1.37	0.82	0.82
285.0	13.46	14.00	13.82	13.37	12.55	9.09	5.09	2.00	1.09
300.0	35.17	32.71	29.62	26.97	24.24	19.59	13.49	7.11	2.64
315.0	56.91	51.86	47.08	42.20	36.81	30.54	21.75	12.62	4.44
330.0	81.63	74.79	67.85	60.54	52.41	42.00	32.51	18.26	7.31
345.0	98.44	90.67	82.37	73.05	61.82	48.94	36.62	22.19	9.68
360.0	109.76	101.71	92.70	82.19	71.69	57.42	41.93	25.82	11.29

Intensity data(cd)

C/γ(°)	180.0
0.0	4.99
15.0	1.67
30.0	2.14
45.0	2.06
60.0	2.16
75.0	1.54
90.0	1.37
105.0	2.55
120.0	3.28
135.0	3.13
150.0	3.20
165.0	2.10
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	4.99