
AFX

Client:

LumCAT: AUGW0720LAJMVNP

Luminaire: LED灯具

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.266

Lamp flux(lm): 3150.9

Power (W): 31.490

Number of Lamps: 1

PF: 0.987

Length(mm): 145

Width(mm): 40

Phm Type: C

Height(mm): 470

Photometric Results

Lumens(lm): 3150.89, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 100.06

Central intensity(cd): 41.766, Maximum intensity(cd): 888.231

Angle of maximum intensity: C=90.0 γ =95.0

Beam Angle(50%Imax): [C0/180]Total=294.2

[C90/270]Total=113.1

Field angle(10%Imax): [C0/180]Total=343.0

[C90/270]Total=161.1

Maximum s/h(1/2): C0_180=3.12 C90_270=6.64

Maximum s/h(1/4): C0_180=3.04 C90_270=6.16

Up flux rate of lamp(%): 50.64%

Down flux rate of lamp(%): 49.36%

Up flux rate of LUM(%): 50.64%

Down flux rate of LUM(%): 49.36%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 18.609%

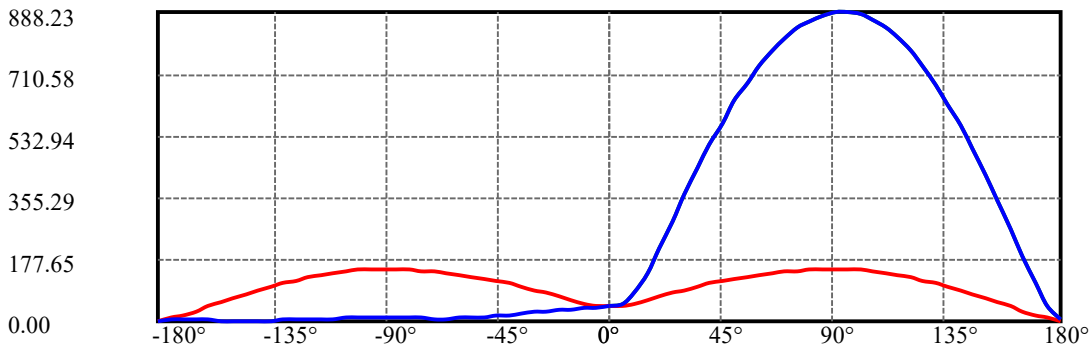
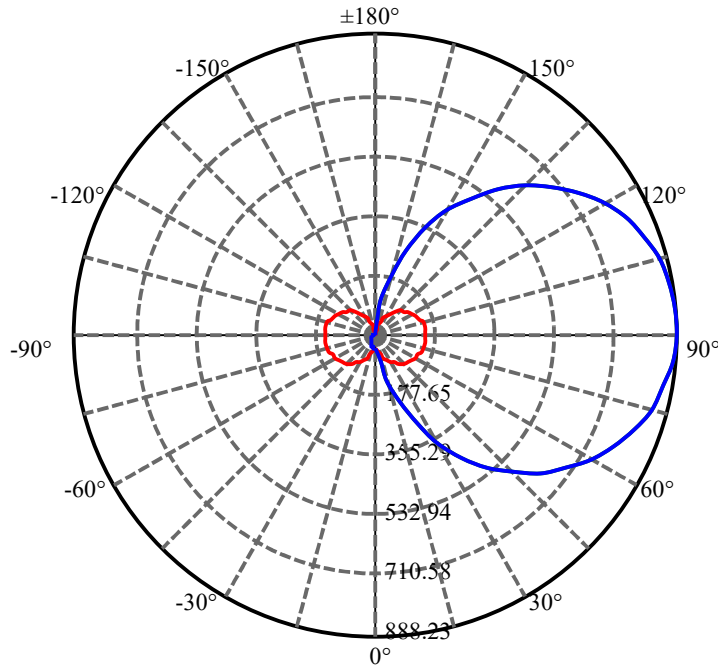
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	41.766	0.000	0	0.00%	0.00%
5.0	44.117	1.027	1.027	0.03%	0.03%
10.0	54.445	3.526	4.553	0.11%	0.14%
15.0	72.406	7.525	12.077	0.24%	0.38%
20.0	96.420	13.914	25.991	0.44%	0.82%
25.0	120.303	22.730	48.721	0.72%	1.55%
30.0	145.408	33.626	82.347	1.07%	2.61%
35.0	170.523	46.523	128.87	1.48%	4.09%
40.0	193.963	60.812	189.682	1.93%	6.02%
45.0	216.199	75.945	265.627	2.41%	8.43%
50.0	236.922	91.560	357.186	2.91%	11.34%
55.0	255.655	107.103	464.289	3.40%	14.74%
60.0	272.375	122.053	586.341	3.87%	18.61%
65.0	287.445	136.093	722.435	4.32%	22.93%
70.0	300.710	148.924	871.359	4.73%	27.65%
75.0	311.518	160.026	1031.385	5.08%	32.73%
80.0	320.017	168.981	1200.367	5.36%	38.10%
85.0	326.062	175.555	1375.922	5.57%	43.67%
90.0	329.205	179.417	1555.339	5.69%	49.36%
95.0	329.582	180.381	1735.72	5.72%	55.09%
100.0	327.014	178.413	1914.133	5.66%	60.75%
105.0	321.097	173.417	2087.55	5.50%	66.25%
110.0	311.834	165.438	2252.988	5.25%	71.50%
115.0	299.473	154.787	2407.775	4.91%	76.42%
120.0	284.320	141.921	2549.696	4.50%	80.92%
125.0	266.603	127.344	2677.04	4.04%	84.96%
130.0	246.691	111.607	2788.647	3.54%	88.50%
135.0	224.638	95.239	2883.886	3.02%	91.53%
140.0	201.068	78.823	2962.709	2.50%	94.03%
145.0	175.843	62.885	3025.594	2.00%	96.02%
150.0	148.468	47.757	3073.351	1.52%	97.54%
155.0	120.621	34.053	3107.405	1.08%	98.62%
160.0	92.431	22.345	3129.75	0.71%	99.33%
165.0	64.067	12.898	3142.648	0.41%	99.74%
170.0	37.875	6.047	3148.695	0.19%	99.93%
175.0	16.679	1.952	3150.646	0.06%	99.99%
180.0	3.420	0.240	3150.887	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	82.35	2.61%	2.61%
0-40	189.68	6.02%	6.02%
0-60	586.34	18.61%	18.61%
0-90	1555.34	49.36%	49.36%
0-120	2549.70	80.92%	80.92%
0-180	3150.89	100.00%	100.00%
60-90	969.00	30.75%	30.75%
90-120	994.36	31.56%	31.56%
90-130	1233.31	39.14%	39.14%
90-150	1518.01	48.18%	48.18%
90-180	1595.31	50.63%	50.63%
0-118.98	2520.71	80.00%	80.00%

ZONAL LUMEN SUMMARY

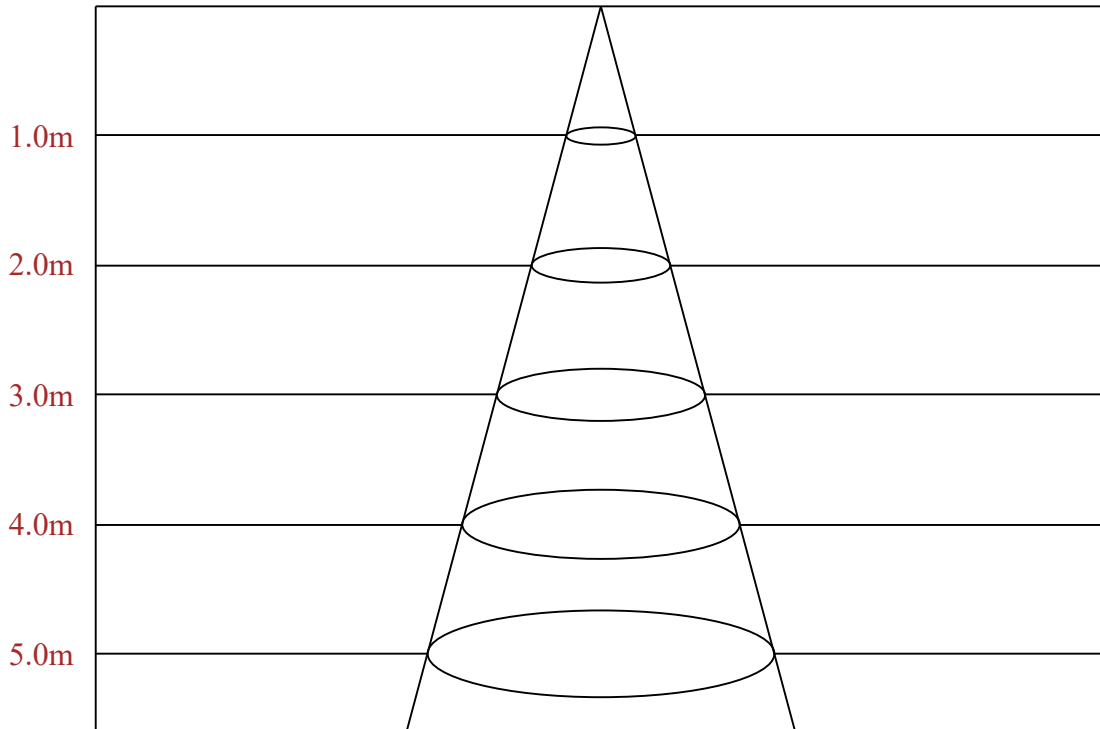
0-10	4.55
10-20	21.44
20-30	56.36
30-40	107.33
40-50	167.50
50-60	229.16
60-70	285.02
70-80	329.01
80-90	354.97
90-100	358.79
100-110	338.85
110-120	296.71
120-130	238.95
130-140	174.06
140-150	110.64
150-160	56.40
160-170	18.94
170-180	1.95



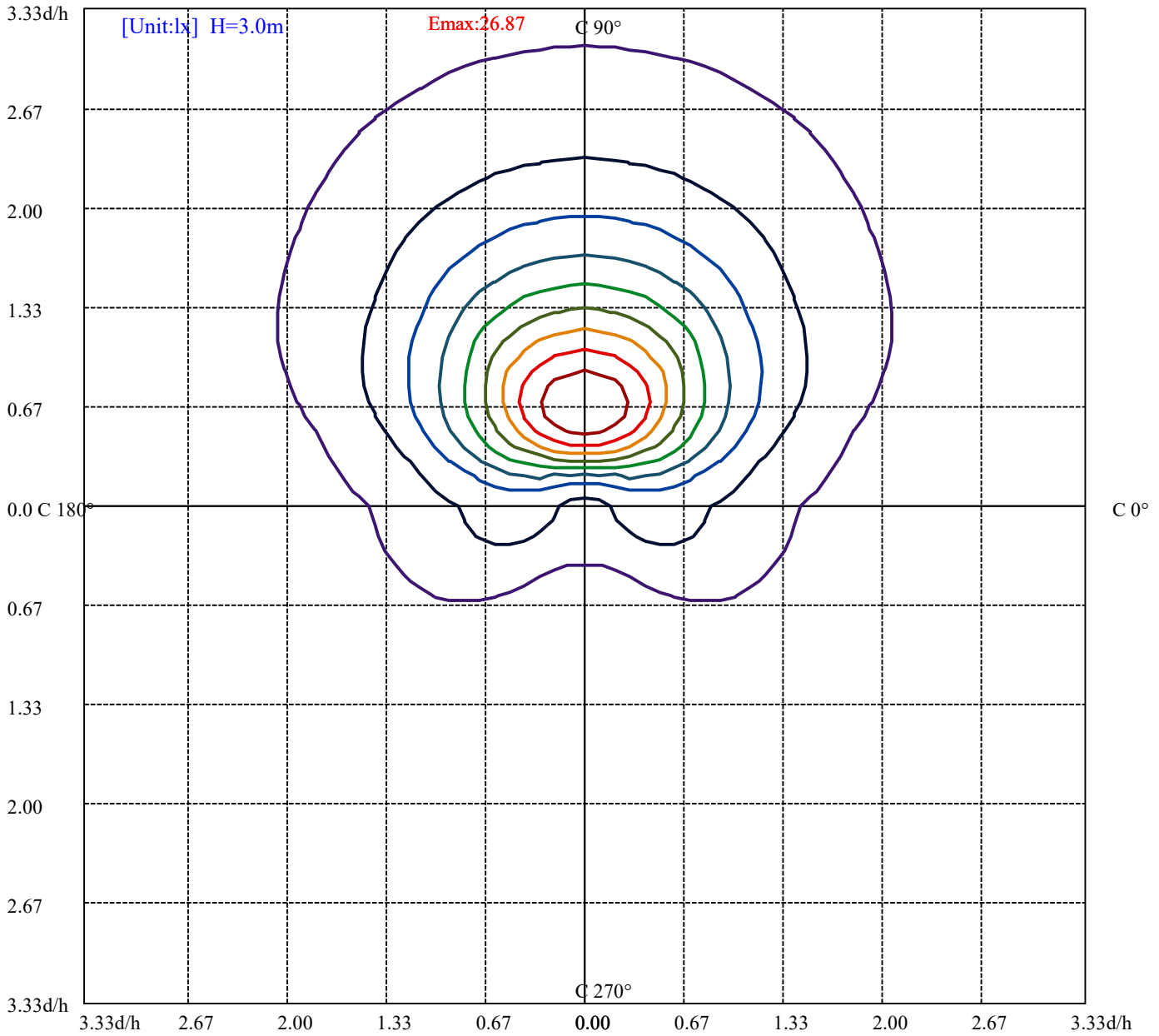
C90(Max): ———
 C0/C180: ———
 C90/C270: ———

Field angle(10%Imax):C0/180Left:261.5 Right:81.5
 :C90/270Left:84.5 Right:76.6

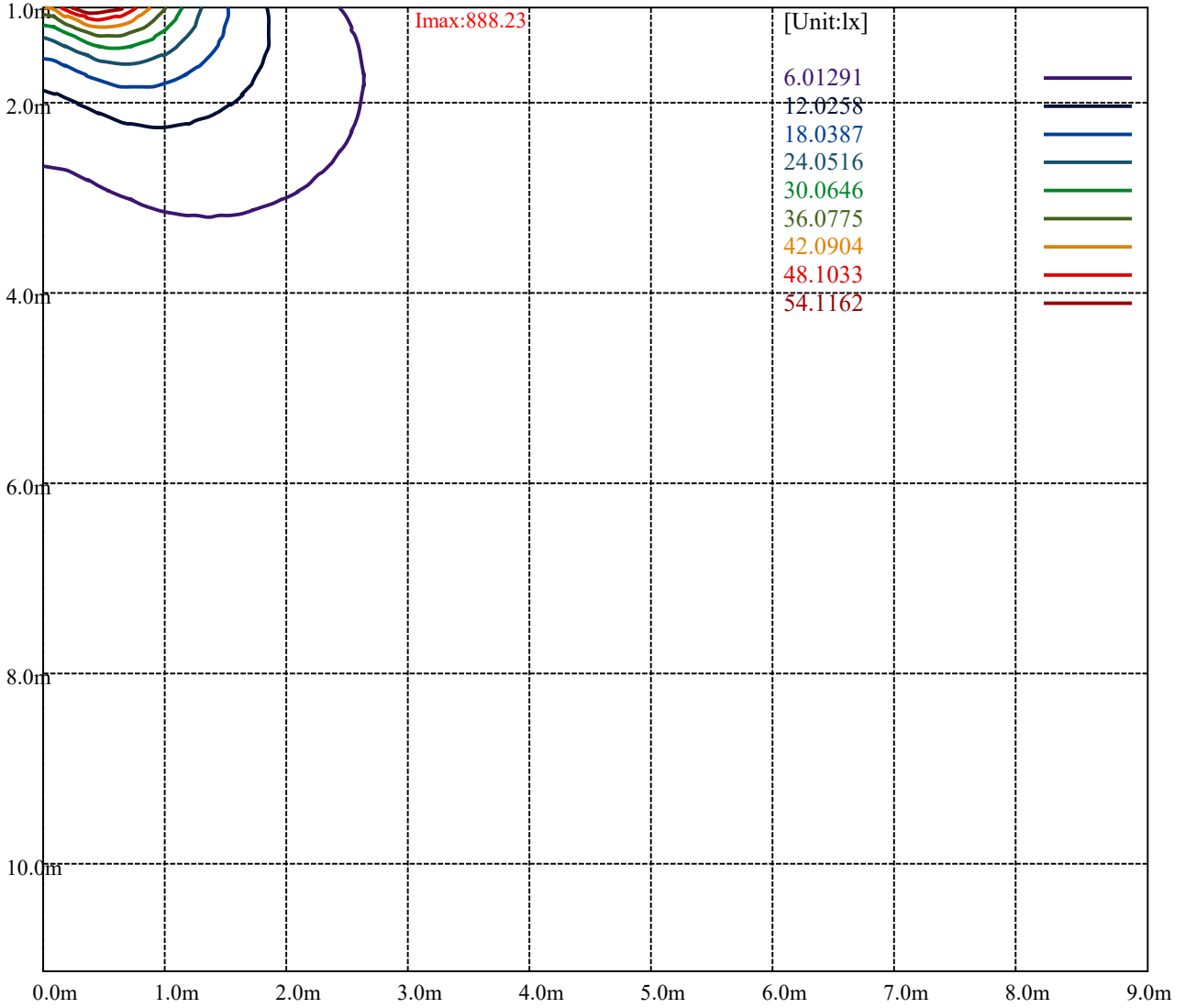
Beam Angle(50%Imax):C0/180Left:237.1 Right:57.1
 :C90/270Left:59.7 Right:53.4



Max , Ave Beam angle of C90 plane 217.68



- (10%Emax) 2.686845
- (20%Emax) 5.3737
- (30%Emax) 8.060544
- (40%Emax) 10.74739
- (50%Emax) 13.43422
- (60%Emax) 16.12111
- (70%Emax) 18.80789
- (80%Emax) 21.49478
- (90%Emax) 24.18167



Luminance Table

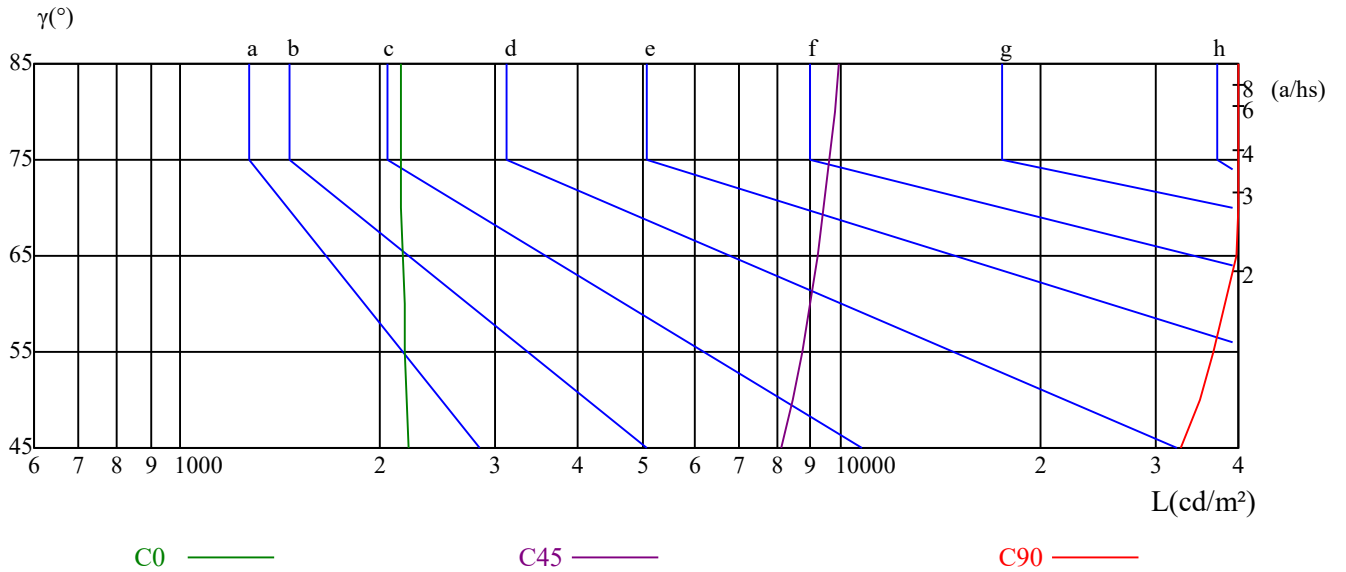
γ	45	50	55	60	65	70	75	80	85
C0	2220	2203	2189	2179	2166	2157	2153	2152	2162
C45	8114	8452	8732	8978	9212	9427	9617	9789	9962
C90	32815	34914	36577	38275	39860	41377	42818	44216	45698

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
56741	159790	121957	96545	283175	216710	292486	878561	675445

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	0.69	0.69	0.69	0.56	0.56	0.56	0.49
1	0.85	0.79	0.74	0.78	0.72	0.68	0.64	0.60	0.56	0.52	0.48	0.45	0.40	0.38	0.35	0.30
2	0.71	0.63	0.56	0.65	0.57	0.51	0.53	0.47	0.42	0.42	0.38	0.34	0.32	0.29	0.26	0.20
3	0.61	0.51	0.44	0.55	0.47	0.40	0.45	0.38	0.33	0.35	0.30	0.26	0.27	0.23	0.19	0.15
4	0.53	0.43	0.35	0.48	0.39	0.32	0.39	0.32	0.26	0.30	0.25	0.21	0.23	0.19	0.15	0.11
5	0.46	0.36	0.29	0.42	0.33	0.27	0.34	0.27	0.22	0.27	0.21	0.17	0.20	0.16	0.12	0.09
6	0.41	0.31	0.25	0.37	0.29	0.22	0.30	0.23	0.18	0.24	0.18	0.14	0.18	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	0.12	0.09	0.06
8	0.33	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	0.05
9	0.30	0.21	0.16	0.27	0.19	0.14	0.22	0.16	0.12	0.17	0.12	0.09	0.13	0.09	0.06	0.04
10	0.27	0.19	0.14	0.25	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	41.77	41.77	46.78	55.13	65.99	76.01	85.20	94.39	104.42
15.0	41.77	44.38	51.34	64.39	79.18	95.71	112.25	129.65	146.18
30.0	41.77	47.10	56.87	78.20	105.75	136.85	171.51	206.17	239.93
45.0	41.77	47.21	65.37	99.88	144.37	192.49	246.06	299.63	350.47
60.0	41.77	48.12	74.45	117.13	176.15	241.52	307.80	372.27	431.28
75.0	41.77	50.12	81.68	135.51	201.41	280.30	350.84	423.23	490.99
90.0	41.77	51.05	82.60	139.22	211.62	289.58	365.69	439.94	508.62
105.0	41.77	51.05	81.68	133.65	206.05	277.51	351.77	424.16	491.91
120.0	41.77	49.19	75.18	121.59	181.92	249.67	313.71	384.25	443.65
135.0	41.77	43.44	60.98	92.72	131.98	180.43	229.71	279.83	327.45
150.0	41.77	47.34	60.33	82.60	136.44	144.79	181.92	220.90	256.17
165.0	41.77	44.49	52.66	66.28	82.62	100.78	118.94	137.10	156.17
180.0	41.77	45.94	55.13	65.16	76.01	86.04	96.06	105.25	112.77
195.0	41.77	45.25	52.21	60.04	68.74	76.57	85.27	92.23	100.07
210.0	41.77	43.54	47.10	53.32	59.54	65.76	71.98	78.20	82.64
225.0	41.77	41.77	42.67	45.40	49.03	51.75	54.48	57.20	59.93
240.0	41.77	39.04	38.13	37.23	36.32	35.41	34.50	32.69	31.78
255.0	41.77	38.98	37.13	34.34	31.56	28.77	25.99	22.28	18.56
270.0	41.77	38.05	36.20	33.41	31.56	27.84	25.06	21.35	18.56
285.0	41.77	38.05	36.20	34.34	31.56	28.77	25.06	22.28	21.35
300.0	41.77	38.98	38.05	36.20	36.20	33.41	32.48	30.63	28.77
315.0	41.77	36.75	37.59	40.10	42.60	45.11	47.61	49.28	50.95
330.0	41.77	42.69	46.41	52.90	59.40	65.90	71.47	77.04	82.60
345.0	41.77	44.49	49.94	59.02	68.10	76.27	84.44	92.61	99.88
360.0	41.77	41.77	46.78	55.13	65.99	76.01	85.20	94.39	104.42
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	111.93	119.45	126.13	131.98	136.16	139.50	142.01	143.68	145.35
15.0	163.58	179.25	194.04	207.96	220.14	230.59	240.16	247.99	253.21
30.0	273.70	305.69	335.02	362.57	386.56	407.89	423.88	438.10	447.88
45.0	399.50	443.99	485.76	521.17	553.86	582.00	605.61	622.86	636.48
60.0	491.21	542.05	591.08	634.67	672.80	704.58	731.82	751.79	766.32
75.0	555.03	613.50	667.33	712.81	754.58	791.70	820.48	842.75	858.53
90.0	570.81	632.99	684.97	734.16	776.85	813.05	841.82	863.17	878.95
105.0	555.96	614.43	668.26	713.74	757.36	792.63	821.40	843.68	859.46
120.0	503.05	558.74	608.86	653.41	693.32	726.73	752.72	775.93	788.92
135.0	372.56	415.16	451.91	487.00	517.90	544.63	565.52	582.22	593.92
150.0	293.29	327.63	360.12	388.89	414.88	438.08	456.65	470.57	480.78
165.0	173.42	190.67	207.92	222.45	236.98	249.69	260.59	269.67	276.02
180.0	120.29	126.97	132.82	137.83	142.01	145.35	147.85	149.52	150.36
195.0	105.29	111.38	115.73	119.21	122.69	125.30	126.17	127.91	128.78
210.0	87.09	91.53	94.20	96.86	99.53	101.31	103.08	103.97	105.75
225.0	61.74	63.56	64.47	66.28	67.19	68.10	70.82	72.64	73.55
240.0	30.87	29.05	28.15	27.24	26.33	28.15	29.05	30.87	31.78
255.0	15.78	12.99	10.21	7.43	6.50	7.43	8.35	8.35	9.28
270.0	14.85	12.07	9.28	9.28	6.50	7.43	8.35	9.28	9.28
285.0	15.78	12.99	10.21	7.43	6.50	7.43	8.35	8.35	9.28
300.0	27.84	25.99	25.06	23.20	22.28	24.13	25.06	25.99	26.92
315.0	52.63	54.30	55.13	55.97	56.80	57.64	59.31	60.98	61.81
330.0	87.25	90.96	93.74	96.53	98.38	99.31	101.17	103.02	104.88
345.0	105.32	110.77	115.31	118.94	122.58	124.39	126.21	127.11	128.02
360.0	111.93	119.45	126.13	131.98	136.16	139.50	142.01	143.68	145.35

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	145.35	145.35	144.51	142.84	138.66	132.82	126.13	118.62	111.10
15.0	257.56	259.30	257.56	254.08	246.25	235.81	223.62	209.70	193.17
30.0	454.10	455.88	453.21	444.32	432.77	413.22	391.89	366.12	337.69
45.0	643.75	644.65	641.02	629.22	611.06	587.45	557.49	523.90	483.94
60.0	773.59	775.40	769.05	755.43	735.45	707.30	672.80	631.94	586.54
75.0	866.88	868.74	862.24	847.39	825.12	794.49	756.43	712.81	662.69
90.0	887.30	888.23	881.73	866.88	845.54	814.91	775.93	731.38	679.40
105.0	867.81	868.74	861.31	847.39	825.12	793.56	755.51	712.81	662.69
120.0	797.27	799.13	792.63	778.71	758.29	729.52	693.32	652.48	606.08
135.0	599.76	601.44	597.26	587.23	569.69	547.97	519.57	488.67	451.91
150.0	487.27	488.20	485.42	477.06	462.21	443.65	420.45	392.60	361.97
165.0	279.65	280.56	279.65	276.02	267.85	256.95	243.33	227.90	209.74
180.0	150.36	149.52	148.69	144.51	139.50	133.65	126.13	116.95	108.59
195.0	128.78	127.91	127.04	123.56	119.21	113.12	107.03	99.20	91.36
210.0	105.75	104.86	103.08	101.31	96.86	92.42	87.09	80.87	73.76
225.0	73.55	72.64	71.73	69.01	66.28	63.56	62.65	54.48	49.03
240.0	31.78	30.87	30.87	29.05	27.24	26.33	24.52	21.79	19.07
255.0	9.28	9.28	8.35	8.35	7.43	6.50	5.57	4.64	3.71
270.0	9.28	9.28	8.35	8.35	7.43	5.57	4.64	3.71	2.78
285.0	9.28	9.28	8.35	7.43	6.50	6.50	4.64	3.71	2.78
300.0	27.84	26.92	26.92	25.99	24.13	23.20	21.35	18.56	16.71
315.0	61.81	61.81	60.14	58.47	55.97	53.46	50.12	45.94	41.77
330.0	104.88	103.95	102.10	100.24	96.53	91.89	86.32	79.82	72.39
345.0	128.02	128.02	127.11	123.48	118.94	113.50	107.14	99.88	91.70
360.0	145.35	145.35	144.51	142.84	138.66	132.82	126.13	118.62	111.10
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	102.75	91.89	81.86	71.00	60.14	46.78	34.25	21.72	10.86
15.0	174.90	155.75	134.87	114.86	93.10	72.22	51.34	32.19	14.79
30.0	304.81	271.04	233.71	195.50	154.62	118.19	80.87	48.88	20.44
45.0	439.45	392.24	342.30	285.10	230.62	172.51	118.94	68.10	29.96
60.0	534.79	481.22	420.39	355.92	287.82	221.54	150.72	88.07	35.41
75.0	606.08	543.89	479.85	408.38	333.20	255.24	177.27	103.02	44.55
90.0	624.64	561.53	493.77	421.38	348.05	264.52	187.48	109.52	46.41
105.0	606.08	543.89	481.71	410.24	335.06	257.10	179.13	107.66	46.41
120.0	551.32	496.56	434.37	367.54	297.93	230.18	158.71	92.81	38.98
135.0	410.98	366.71	321.60	268.14	218.02	164.56	114.44	64.32	29.24
150.0	329.49	291.44	252.45	210.69	167.99	128.08	88.17	51.98	23.20
165.0	189.76	168.88	147.09	122.58	100.78	77.18	54.48	33.59	15.44
180.0	97.73	87.71	76.01	63.48	50.95	37.59	24.22	13.37	5.85
195.0	82.66	73.09	63.52	53.08	41.77	39.16	20.88	10.44	5.22
210.0	65.76	63.98	49.76	41.77	32.88	23.99	16.00	8.89	4.44
225.0	44.49	39.04	32.69	27.24	21.79	15.44	9.99	6.36	2.72
240.0	17.25	14.53	12.71	10.90	9.08	7.26	5.45	4.54	1.82
255.0	2.78	2.78	2.78	2.78	2.78	3.71	3.71	3.71	1.86
270.0	1.86	1.86	1.86	1.86	1.86	2.78	3.71	3.71	2.78
285.0	2.78	1.86	2.78	2.78	2.78	2.78	3.71	3.71	2.78
300.0	14.85	12.99	12.07	10.21	9.28	7.43	6.50	4.64	3.71
315.0	37.59	32.58	28.40	23.39	19.21	14.20	10.02	6.68	3.34
330.0	65.90	57.54	50.12	40.84	32.48	24.13	16.71	9.28	4.64
345.0	82.62	72.64	63.56	53.57	42.67	31.78	20.88	11.80	5.45
360.0	102.75	91.89	81.86	71.00	60.14	46.78	34.25	21.72	10.86

Intensity data(cd)

C/γ(°)	180.0
0.0	5.01
15.0	5.22
30.0	5.33
45.0	6.36
60.0	6.36
75.0	7.43
90.0	7.43
105.0	9.28
120.0	9.28
135.0	7.52
150.0	7.43
165.0	5.45
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	5.01