
AFX

Client:

LumCAT: AUGW0808LAJMVBP

Luminaire: LED灯具

Report No:

Ballast type:

Test No: LCZP23120167

Voltage(V): 120.020

LampCAT:

Current(A): 0.083

Lamp flux(lm): 711.9

Power (W): 9.760

Number of Lamps: 1

PF: 0.979

Length(mm): 180

Width(mm): 55

Phm Type: C

Height(mm): 180

Photometric Results

Lumens(lm): 711.86, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 72.94

Central intensity(cd): 35.052, Maximum intensity(cd): 158.873

Angle of maximum intensity: C=90.0 γ =90.0

Beam Angle(50%Imax): [C0/180]Total=323.0

[C90/270]Total=126.9

Field angle(10%Imax): [C0/180]Total=357.8

[C90/270]Total=223.0

Maximum s/h(1/2): C0_180=1.77 C90_270=3.46

Maximum s/h(1/4): C0_180=1.92 C90_270=3.37

Up flux rate of lamp(%): 49.39%

Down flux rate of lamp(%): 50.61%

Up flux rate of LUM(%): 49.39%

Down flux rate of LUM(%): 50.61%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 22.636%

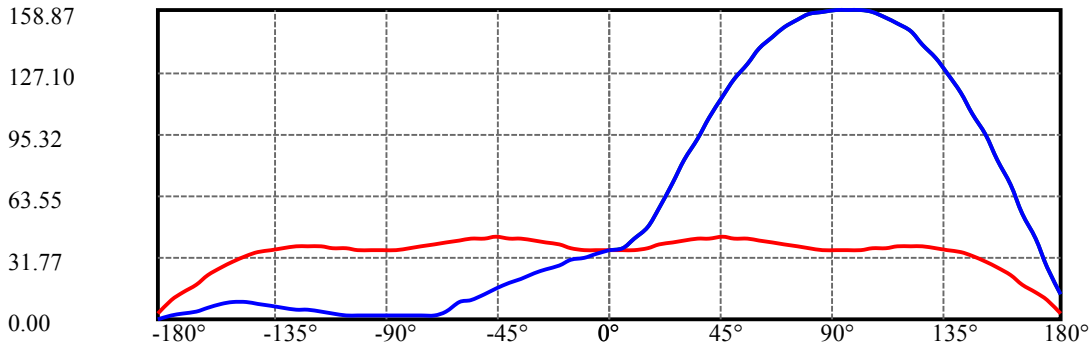
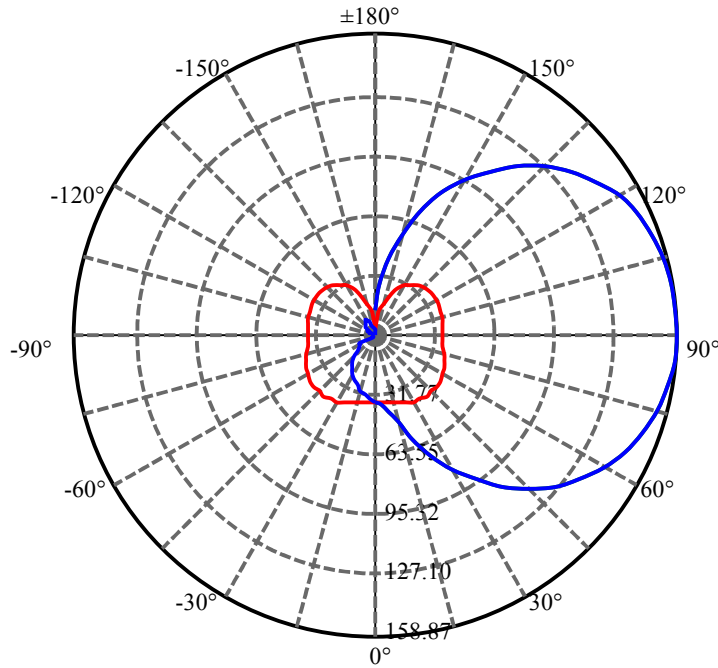
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	35.052	0.000	0	0.00%	0.00%
5.0	35.073	0.838	0.838	0.12%	0.12%
10.0	35.884	2.538	3.377	0.36%	0.47%
15.0	37.399	4.347	7.724	0.61%	1.09%
20.0	40.132	6.390	14.113	0.90%	1.98%
25.0	43.198	8.740	22.853	1.23%	3.21%
30.0	46.409	11.340	34.193	1.59%	4.80%
35.0	49.575	14.134	48.327	1.99%	6.79%
40.0	52.608	17.049	65.376	2.39%	9.18%
45.0	55.073	19.938	85.314	2.80%	11.98%
50.0	57.365	22.720	108.034	3.19%	15.18%
55.0	59.231	25.352	133.386	3.56%	18.74%
60.0	60.817	27.749	161.135	3.90%	22.64%
65.0	61.846	29.820	190.954	4.19%	26.82%
70.0	62.599	31.510	222.465	4.43%	31.25%
75.0	63.501	32.961	255.425	4.63%	35.88%
80.0	64.277	34.190	289.615	4.80%	40.68%
85.0	64.852	35.087	324.703	4.93%	45.61%
90.0	65.129	35.590	360.293	5.00%	50.61%
95.0	65.211	35.688	395.981	5.01%	55.63%
100.0	65.124	35.415	431.396	4.98%	60.60%
105.0	64.947	34.803	466.2	4.89%	65.49%
110.0	64.380	33.804	500.004	4.75%	70.24%
115.0	63.295	32.328	532.332	4.54%	74.78%
120.0	61.705	30.388	562.72	4.27%	79.05%
125.0	59.518	28.021	590.74	3.94%	82.99%
130.0	56.868	25.306	616.047	3.55%	86.54%
135.0	53.753	22.353	638.399	3.14%	89.68%
140.0	50.229	19.253	657.652	2.70%	92.39%
145.0	46.174	16.084	673.736	2.26%	94.64%
150.0	41.557	12.919	686.655	1.81%	96.46%
155.0	36.415	9.867	696.523	1.39%	97.85%
160.0	30.459	7.014	703.536	0.99%	98.83%
165.0	24.354	4.517	708.054	0.63%	99.47%
170.0	18.280	2.529	710.583	0.36%	99.82%
175.0	11.861	1.078	711.661	0.15%	99.97%
180.0	4.767	0.199	711.86	0.03%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	34.19	4.80%	4.80%
0-40	65.38	9.18%	9.18%
0-60	161.13	22.64%	22.64%
0-90	360.29	50.61%	50.61%
0-120	562.72	79.05%	79.05%
0-180	711.86	100.00%	100.00%
60-90	199.16	27.98%	27.98%
90-120	202.43	28.44%	28.44%
90-130	255.75	35.93%	35.93%
90-150	326.36	45.85%	45.85%
90-180	351.37	49.36%	49.36%
0-121.21	569.49	80.00%	80.00%

ZONAL LUMEN SUMMARY

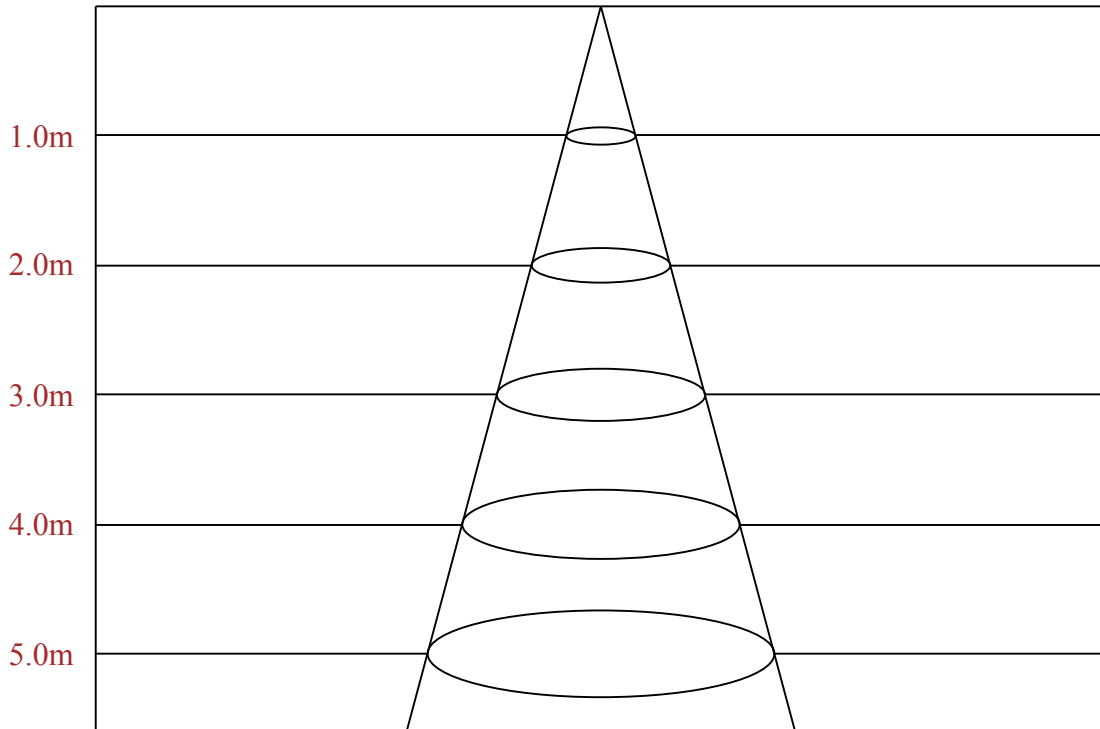
0-10	3.38
10-20	10.74
20-30	20.08
30-40	31.18
40-50	42.66
50-60	53.10
60-70	61.33
70-80	67.15
80-90	70.68
90-100	71.10
100-110	68.61
110-120	62.72
120-130	53.33
130-140	41.61
140-150	29.00
150-160	16.88
160-170	7.05
170-180	1.08



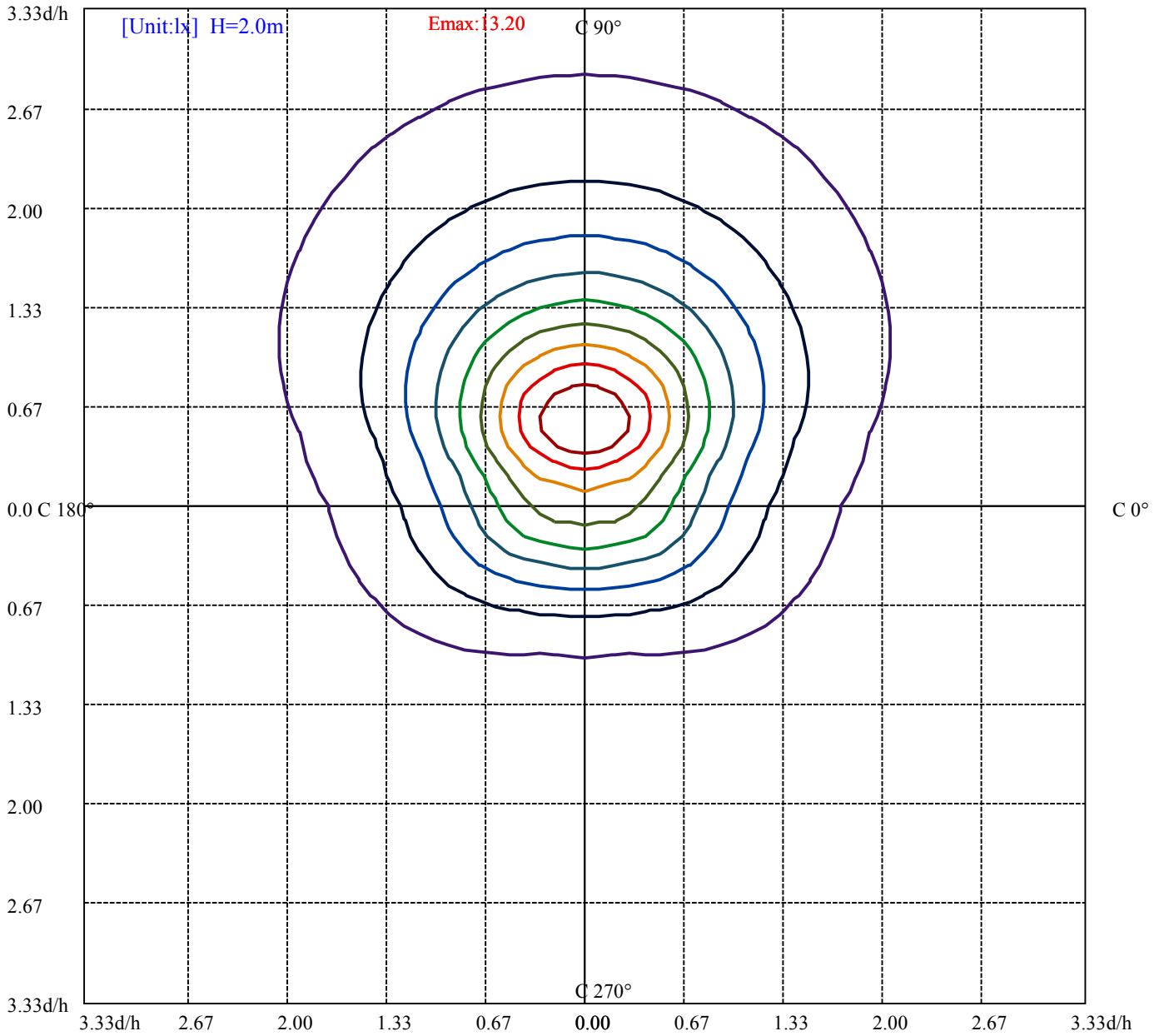
C90(Max): ——
 C0/C180: ——
 C90/C270: ——

Field angle(10%Imax):C0/180Left:223.9 Right:133.9
 :C90/270Left:139.1 Right:83.9

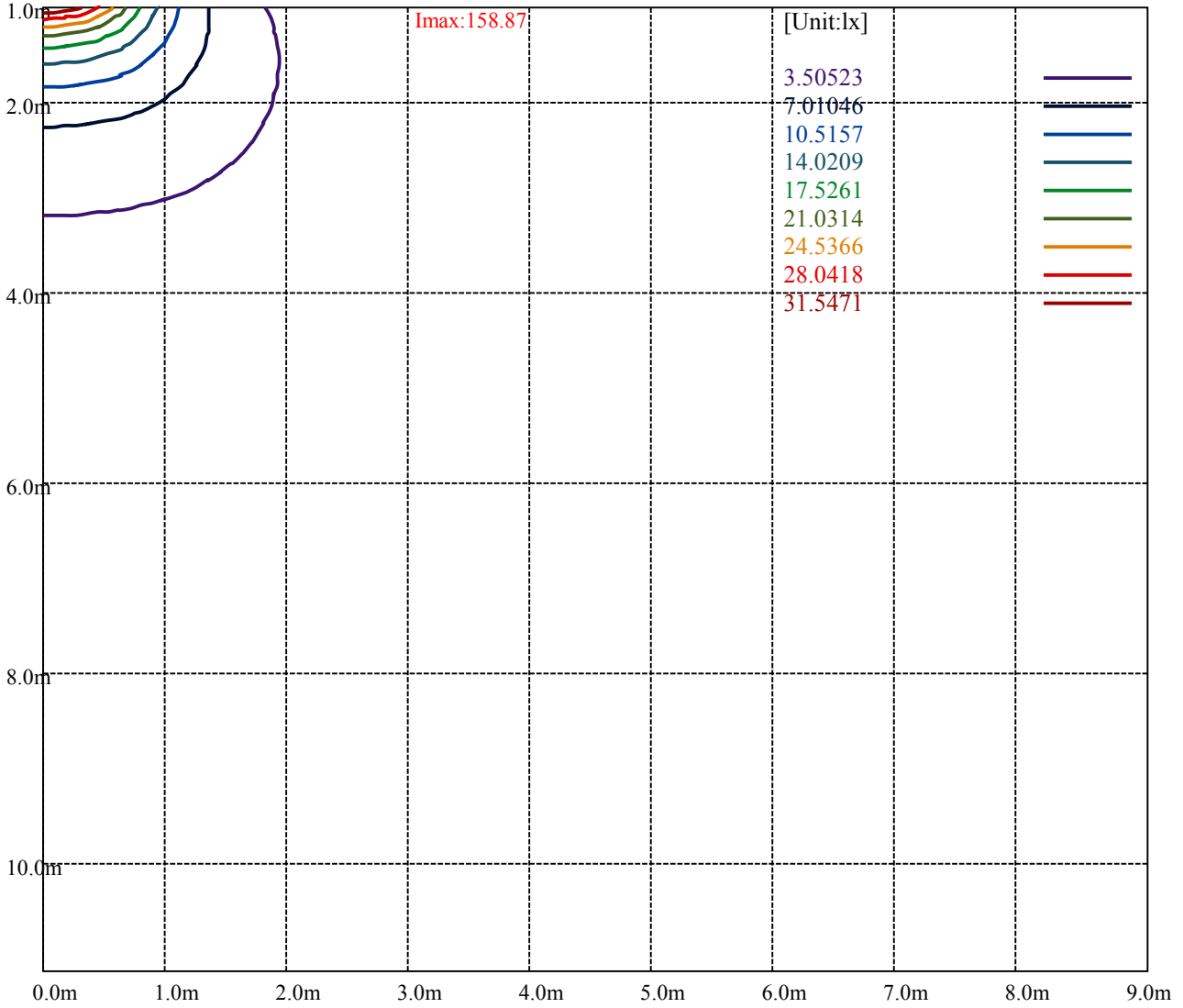
Beam Angle(50%Imax):C0/180Left:206.5 Right:116.5
 :C90/270Left:65.9 Right:61.0



Max , Ave Beam angle of C90 plane 221.38



- (10%Emax) 1.319535
- (20%Emax) 2.639075
- (30%Emax) 3.9586
- (40%Emax) 5.27815
- (50%Emax) 6.597675
- (60%Emax) 7.9172
- (70%Emax) 9.23675
- (80%Emax) 10.55628
- (90%Emax) 11.87582



Luminance Table

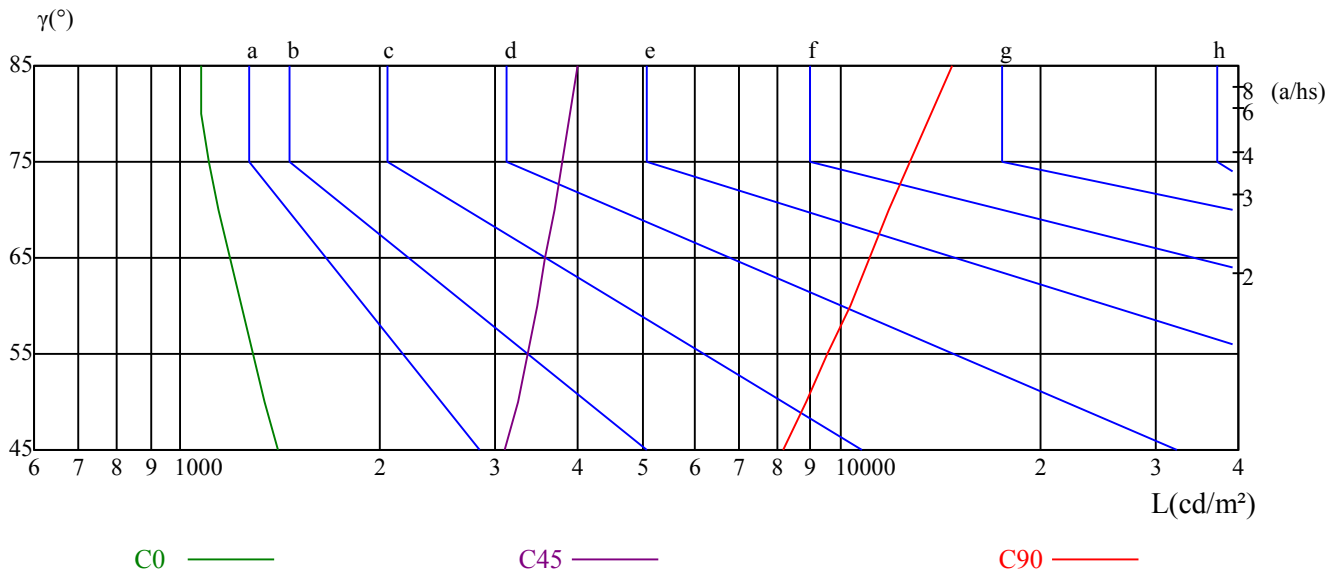
γ	45	50	55	60	65	70	75	80	85
C0	1403	1343	1288	1238	1190	1143	1106	1074	1071
C45	3096	3236	3346	3460	3570	3675	3778	3885	3990
C90	8174	8878	9542	10314	11031	11832	12720	13662	14754

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
9541	17800	15670	14613	30433	26478	41137	92908	81095

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	0.81	0.75	0.79	0.74	0.70	0.66	0.62	0.58	0.54	0.51	0.48	0.42	0.40	0.38	0.32
2	0.73	0.65	0.58	0.67	0.59	0.53	0.55	0.49	0.45	0.44	0.40	0.36	0.34	0.31	0.28	0.23
3	0.62	0.53	0.46	0.57	0.49	0.42	0.47	0.41	0.35	0.38	0.33	0.29	0.29	0.25	0.22	0.18
4	0.54	0.45	0.38	0.50	0.41	0.35	0.41	0.34	0.29	0.33	0.27	0.23	0.25	0.21	0.18	0.14
5	0.48	0.38	0.31	0.44	0.35	0.29	0.36	0.29	0.24	0.29	0.23	0.19	0.22	0.18	0.15	0.11
6	0.42	0.33	0.26	0.39	0.30	0.24	0.32	0.25	0.20	0.26	0.20	0.16	0.20	0.16	0.12	0.09
7	0.38	0.29	0.23	0.35	0.27	0.21	0.29	0.22	0.17	0.23	0.18	0.14	0.18	0.14	0.11	0.08
8	0.34	0.26	0.20	0.31	0.24	0.18	0.26	0.20	0.15	0.21	0.16	0.12	0.16	0.12	0.09	0.07
9	0.31	0.23	0.17	0.28	0.21	0.16	0.24	0.18	0.13	0.19	0.14	0.11	0.15	0.11	0.08	0.06
10	0.28	0.20	0.15	0.26	0.19	0.14	0.22	0.16	0.12	0.18	0.13	0.09	0.14	0.10	0.07	0.05

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	35.05	35.05	35.32	36.11	37.35	38.59	39.83	40.81	41.51
15.0	35.05	35.41	36.30	37.54	39.68	41.99	43.95	45.82	47.77
30.0	35.05	36.04	37.29	39.70	42.83	46.77	51.68	57.32	62.86
45.0	35.05	36.04	38.55	41.69	47.07	54.60	62.57	71.54	79.07
60.0	35.05	36.50	39.85	44.11	51.99	61.95	72.46	82.88	92.93
75.0	35.05	36.50	40.31	46.28	56.16	67.39	78.89	90.30	100.18
90.0	35.05	36.96	41.06	47.62	57.63	70.20	81.49	93.05	104.06
105.0	35.05	36.96	40.70	46.80	56.90	68.56	80.21	90.95	102.70
120.0	35.05	36.68	40.11	44.45	53.39	63.06	73.81	84.38	94.77
135.0	35.05	35.32	37.77	41.19	46.88	54.77	63.36	71.94	80.36
150.0	35.05	36.04	37.76	40.37	46.95	48.12	53.52	59.65	65.60
165.0	35.05	35.68	36.67	38.30	40.46	43.16	45.23	47.49	49.83
180.0	35.05	35.49	36.03	37.27	38.77	40.01	40.98	41.78	41.96
195.0	35.05	34.96	35.14	35.94	36.83	37.45	37.90	38.17	38.26
210.0	35.05	34.52	34.16	34.07	34.34	34.52	34.34	33.98	33.62
225.0	35.05	33.89	32.99	32.45	31.82	31.11	30.21	29.31	28.06
240.0	35.05	33.78	32.52	31.34	29.71	28.08	26.54	24.55	22.82
255.0	35.05	33.33	31.88	30.61	28.53	26.45	24.00	21.28	18.57
270.0	35.05	33.41	31.87	30.14	27.95	25.77	23.49	20.94	18.30
285.0	35.05	33.50	32.14	30.41	28.41	26.31	23.85	21.21	20.58
300.0	35.05	33.52	32.25	30.90	29.18	27.46	25.66	23.58	21.68
315.0	35.05	32.86	31.90	31.20	30.41	29.62	28.74	27.60	26.46
330.0	35.05	34.42	33.79	33.70	33.79	33.97	33.70	33.52	32.89
345.0	35.05	34.87	34.87	35.41	36.13	36.85	37.40	37.76	37.76
360.0	35.05	35.05	35.32	36.11	37.35	38.59	39.83	40.81	41.51
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	41.78	41.87	41.69	41.16	40.36	39.21	37.97	36.38	35.49
15.0	49.55	51.42	53.11	54.54	55.69	56.40	56.76	57.03	57.20
30.0	68.14	72.88	77.35	81.28	84.68	87.36	89.51	91.03	92.28
45.0	86.87	94.04	100.58	106.23	111.16	115.20	118.42	120.67	121.92
60.0	102.35	110.95	118.38	125.17	131.06	135.95	139.76	142.47	144.10
75.0	110.32	119.65	127.89	135.23	141.66	147.00	150.90	153.61	155.15
90.0	114.44	123.82	131.56	139.48	145.13	150.13	154.23	156.69	158.24
105.0	111.99	121.36	129.83	137.30	143.67	148.68	153.14	155.60	157.23
120.0	104.43	112.56	121.15	127.47	133.52	138.58	142.56	145.36	146.89
135.0	87.46	95.43	101.39	107.26	112.25	116.29	119.27	121.54	122.77
150.0	71.37	76.68	81.64	85.42	89.57	92.09	94.43	96.06	97.14
165.0	51.99	53.98	55.96	57.76	59.29	60.37	60.82	61.54	61.63
180.0	42.13	41.87	41.34	40.54	39.48	38.15	36.91	35.85	35.49
195.0	37.72	37.28	36.65	35.50	34.34	32.92	31.67	30.87	30.60
210.0	32.73	31.83	30.67	29.33	27.81	26.29	25.31	24.86	25.13
225.0	26.72	25.19	23.58	21.96	19.99	18.47	17.48	17.84	18.11
240.0	20.65	18.39	16.12	13.86	11.68	9.69	9.33	9.51	9.78
255.0	15.67	12.86	9.69	6.88	4.17	1.72	1.63	1.72	1.99
270.0	15.39	12.47	9.47	8.92	3.82	1.55	1.73	2.00	2.09
285.0	15.75	12.84	9.92	6.92	4.19	1.73	1.46	1.64	2.00
300.0	19.42	17.35	14.91	12.74	10.39	8.58	8.13	8.49	8.85
315.0	25.24	23.75	22.17	20.51	18.84	17.26	16.21	16.65	17.09
330.0	32.17	31.36	30.28	29.02	27.48	26.13	24.96	24.60	24.78
345.0	37.49	36.94	36.22	35.14	34.06	32.62	31.45	30.64	30.46
360.0	41.78	41.87	41.69	41.16	40.36	39.21	37.97	36.38	35.49

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	35.32	35.32	35.85	37.00	37.97	38.86	39.48	39.83	39.66
15.0	57.65	58.09	58.45	58.89	59.07	58.81	57.92	56.76	54.98
30.0	93.09	93.44	93.26	93.00	92.01	90.58	87.81	84.95	80.92
45.0	122.64	122.82	122.64	122.19	120.67	117.98	114.21	109.55	104.17
60.0	144.92	145.19	144.65	143.65	141.66	138.85	134.32	128.89	121.91
75.0	155.79	155.79	155.34	154.79	152.62	149.18	144.38	138.04	130.70
90.0	158.87	158.87	158.42	157.51	155.32	152.14	148.13	141.12	134.38
105.0	157.69	157.69	157.42	156.32	154.50	151.13	146.13	139.66	132.20
120.0	147.53	147.62	147.35	146.17	144.09	140.57	135.69	130.36	123.04
135.0	123.56	123.65	123.56	122.68	121.19	118.39	114.01	108.75	102.44
150.0	97.86	97.95	97.95	97.59	96.24	93.71	90.47	86.59	81.55
165.0	62.08	62.36	62.63	62.81	62.08	60.73	59.11	56.68	53.79
180.0	35.32	35.58	36.03	35.94	35.85	35.76	35.32	34.88	33.90
195.0	30.60	30.69	30.34	29.63	29.09	28.65	28.02	27.22	26.07
210.0	25.04	25.04	24.50	23.34	22.35	20.92	20.03	18.96	17.70
225.0	17.93	17.84	17.30	16.41	15.24	14.16	13.90	11.92	11.12
240.0	9.69	9.51	9.51	8.70	8.15	7.43	6.61	5.80	5.43
255.0	1.99	1.72	1.54	1.99	2.45	2.90	3.71	4.26	4.80
270.0	2.00	1.91	1.64	2.19	2.91	3.64	4.46	5.37	6.37
285.0	1.91	2.00	1.91	2.64	3.46	4.64	5.64	6.74	7.74
300.0	8.85	8.76	8.58	9.31	10.30	11.02	11.74	12.38	13.01
315.0	17.09	17.09	17.00	17.70	18.23	18.67	19.10	19.19	19.28
330.0	24.96	25.05	25.41	26.04	26.58	26.85	26.94	26.85	26.58
345.0	30.73	31.09	31.72	32.26	33.07	33.52	33.79	33.70	33.07
360.0	35.32	35.32	35.85	37.00	37.97	38.86	39.48	39.83	39.66
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	39.12	38.06	36.65	34.88	31.78	28.24	22.93	17.70	12.30
15.0	52.67	49.91	46.62	42.61	38.79	34.87	29.27	22.42	14.41
30.0	76.19	71.00	65.28	58.48	50.79	43.55	36.75	28.08	16.99
45.0	97.63	90.28	82.12	73.24	63.74	53.70	43.39	33.62	21.34
60.0	114.12	105.07	95.83	84.60	73.82	62.04	49.73	37.50	25.09
75.0	122.82	113.49	102.89	91.57	79.34	67.21	53.62	40.12	25.99
90.0	125.92	116.36	105.61	94.69	82.21	68.92	54.63	41.15	26.59
105.0	124.28	114.63	103.88	92.23	80.39	66.64	53.63	39.24	25.77
120.0	114.64	105.34	95.76	84.74	73.09	60.89	48.51	34.78	22.77
135.0	95.17	87.89	79.13	69.93	60.11	49.69	39.35	28.22	19.19
150.0	75.69	69.29	63.17	55.60	48.75	40.28	30.46	22.08	16.58
165.0	50.55	47.13	42.98	38.48	33.61	28.11	22.08	16.40	12.44
180.0	32.57	30.80	28.59	25.32	21.33	16.55	12.39	9.74	6.46
195.0	24.73	23.13	20.82	17.97	15.30	11.74	9.43	7.56	5.16
210.0	16.54	16.36	13.68	12.16	10.91	8.23	6.89	5.72	3.93
225.0	9.95	8.96	8.88	8.25	7.17	5.74	4.75	4.21	1.52
240.0	5.53	5.53	5.80	5.89	5.25	4.08	3.35	3.08	0.18
255.0	5.43	6.25	5.98	6.34	5.89	3.62	2.81	2.90	0.91
270.0	7.01	8.01	8.74	9.20	8.01	5.74	4.10	2.73	2.00
285.0	8.56	9.65	10.47	10.93	10.01	8.47	6.19	4.55	2.91
300.0	13.37	13.73	13.91	13.19	12.65	10.93	8.58	6.50	3.70
315.0	19.10	18.58	18.14	17.18	16.04	13.76	11.13	8.15	4.82
330.0	26.22	24.96	23.61	22.71	20.00	17.57	14.06	10.45	6.22
345.0	32.26	31.09	29.65	27.21	24.96	20.45	16.49	11.80	7.39
360.0	39.12	38.06	36.65	34.88	31.78	28.24	22.93	17.70	12.30

Intensity data(cd)

C/γ(°)	180.0
0.0	5.58
15.0	6.94
30.0	7.69
45.0	8.25
60.0	8.42
75.0	10.23
90.0	13.02
105.0	13.02
120.0	12.74
135.0	10.95
150.0	9.82
165.0	7.75
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	5.58