
乐达凯

Client:

LumCAT: AUGW0808LAJMVBK

Luminaire: LED 灯具

Report No:

Ballast type:

Test No: LCZP24030156

Voltage(V): 120.100

LampCAT:

Current(A): 0.082

Lamp flux(lm): 673.6

Power (W): 9.540

Number of Lamps: 1

PF: 0.972

Length(mm): 180

Width(mm): 50

Phm Type: C

Height(mm): 175

Photometric Results

Lumens(lm): 673.56, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 70.60

Central intensity(cd): 32.448, Maximum intensity(cd): 145.878

Angle of maximum intensity: C=90.0 γ =90.0

Beam Angle(50%Imax): [C0/180]Total=331.2

[C90/270]Total=131.7

Field angle(10%Imax): [C0/180]Total=N.A.

[C90/270]Total=223.0

Maximum s/h(1/2): C0_180=1.83 C90_270=3.47

Maximum s/h(1/4): C0_180=1.96 C90_270=3.38

Up flux rate of lamp(%): 50.53%

Down flux rate of lamp(%): 49.47%

Up flux rate of LUM(%): 50.53%

Down flux rate of LUM(%): 49.47%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 22.425%

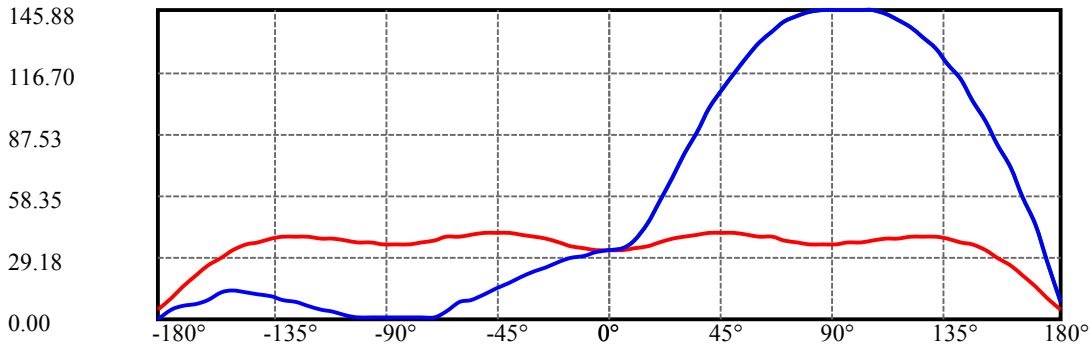
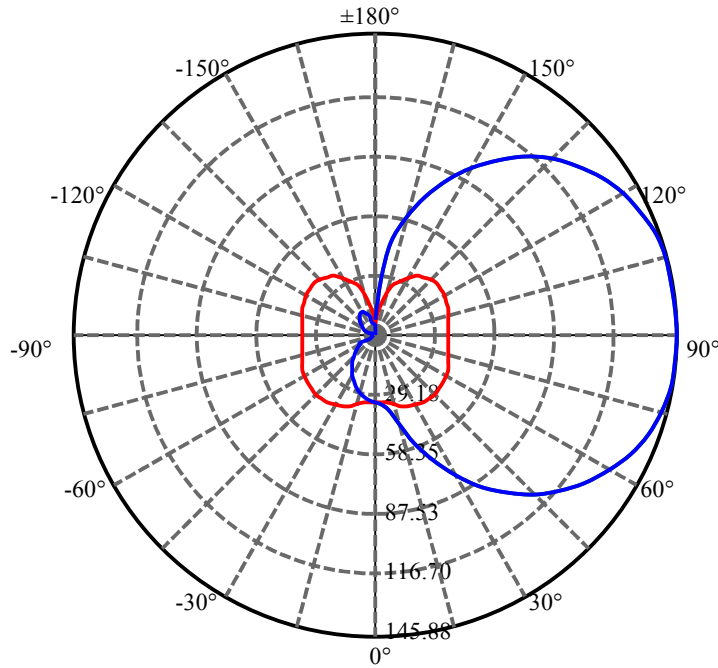
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	32.448	0.000	0	0.00%	0.00%
5.0	32.489	0.776	0.776	0.12%	0.12%
10.0	33.194	2.350	3.126	0.35%	0.46%
15.0	35.112	4.052	7.178	0.60%	1.07%
20.0	38.028	6.028	13.206	0.89%	1.96%
25.0	40.965	8.285	21.491	1.23%	3.19%
30.0	44.023	10.755	32.246	1.60%	4.79%
35.0	46.889	13.387	45.633	1.99%	6.77%
40.0	49.550	16.090	61.723	2.39%	9.16%
45.0	51.659	18.740	80.463	2.78%	11.95%
50.0	53.510	21.251	101.714	3.16%	15.10%
55.0	55.070	23.609	125.323	3.51%	18.61%
60.0	56.217	25.724	151.047	3.82%	22.43%
65.0	56.904	27.500	178.546	4.08%	26.51%
70.0	57.414	28.946	207.493	4.30%	30.81%
75.0	57.945	30.153	237.646	4.48%	35.28%
80.0	58.541	31.168	268.814	4.63%	39.91%
85.0	59.091	31.963	300.777	4.75%	44.66%
90.0	59.461	32.461	333.238	4.82%	49.47%
95.0	59.640	32.611	365.849	4.84%	54.32%
100.0	59.767	32.446	398.295	4.82%	59.13%
105.0	60.085	32.069	430.364	4.76%	63.89%
110.0	60.185	31.437	461.8	4.67%	68.56%
115.0	60.001	30.432	492.232	4.52%	73.08%
120.0	59.330	29.009	521.242	4.31%	77.39%
125.0	58.239	27.176	548.417	4.03%	81.42%
130.0	56.602	24.970	573.387	3.71%	85.13%
135.0	54.310	22.411	595.799	3.33%	88.46%
140.0	51.587	19.608	615.406	2.91%	91.37%
145.0	48.328	16.670	632.076	2.47%	93.84%
150.0	44.340	13.646	645.722	2.03%	95.87%
155.0	39.666	10.631	656.354	1.58%	97.45%
160.0	34.224	7.750	664.103	1.15%	98.60%
165.0	27.793	5.111	669.214	0.76%	99.36%
170.0	21.043	2.897	672.111	0.43%	99.79%
175.0	13.396	1.232	673.343	0.18%	99.97%
180.0	4.317	0.212	673.555	0.03%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	32.25	4.79%	4.79%
0-40	61.72	9.16%	9.16%
0-60	151.05	22.43%	22.43%
0-90	333.24	49.47%	49.47%
0-120	521.24	77.39%	77.39%
0-180	673.56	100.00%	100.00%
60-90	182.19	27.05%	27.05%
90-120	188.00	27.91%	27.91%
90-130	240.15	35.65%	35.65%
90-150	312.48	46.39%	46.39%
90-180	340.11	50.49%	50.49%
0-123.24	538.84	80.00%	80.00%

ZONAL LUMEN SUMMARY

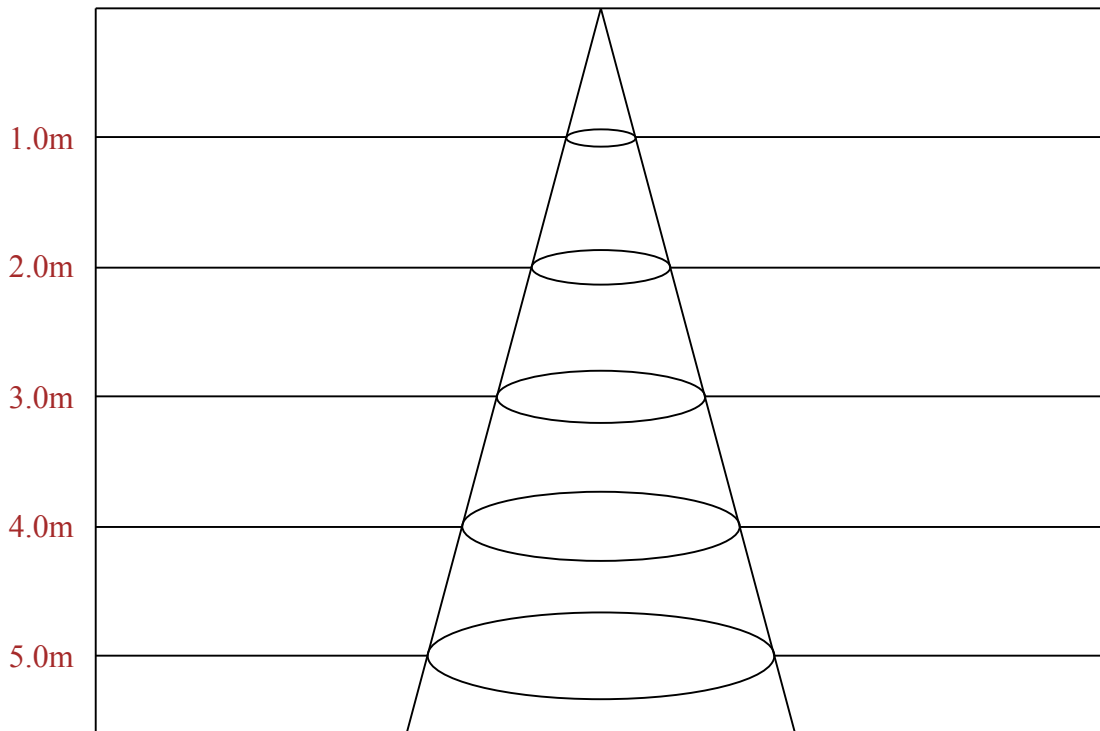
0-10	3.13
10-20	10.08
20-30	19.04
30-40	29.48
40-50	39.99
50-60	49.33
60-70	56.45
70-80	61.32
80-90	64.42
90-100	65.06
100-110	63.51
110-120	59.44
120-130	52.15
130-140	42.02
140-150	30.32
150-160	18.38
160-170	8.01
170-180	1.23



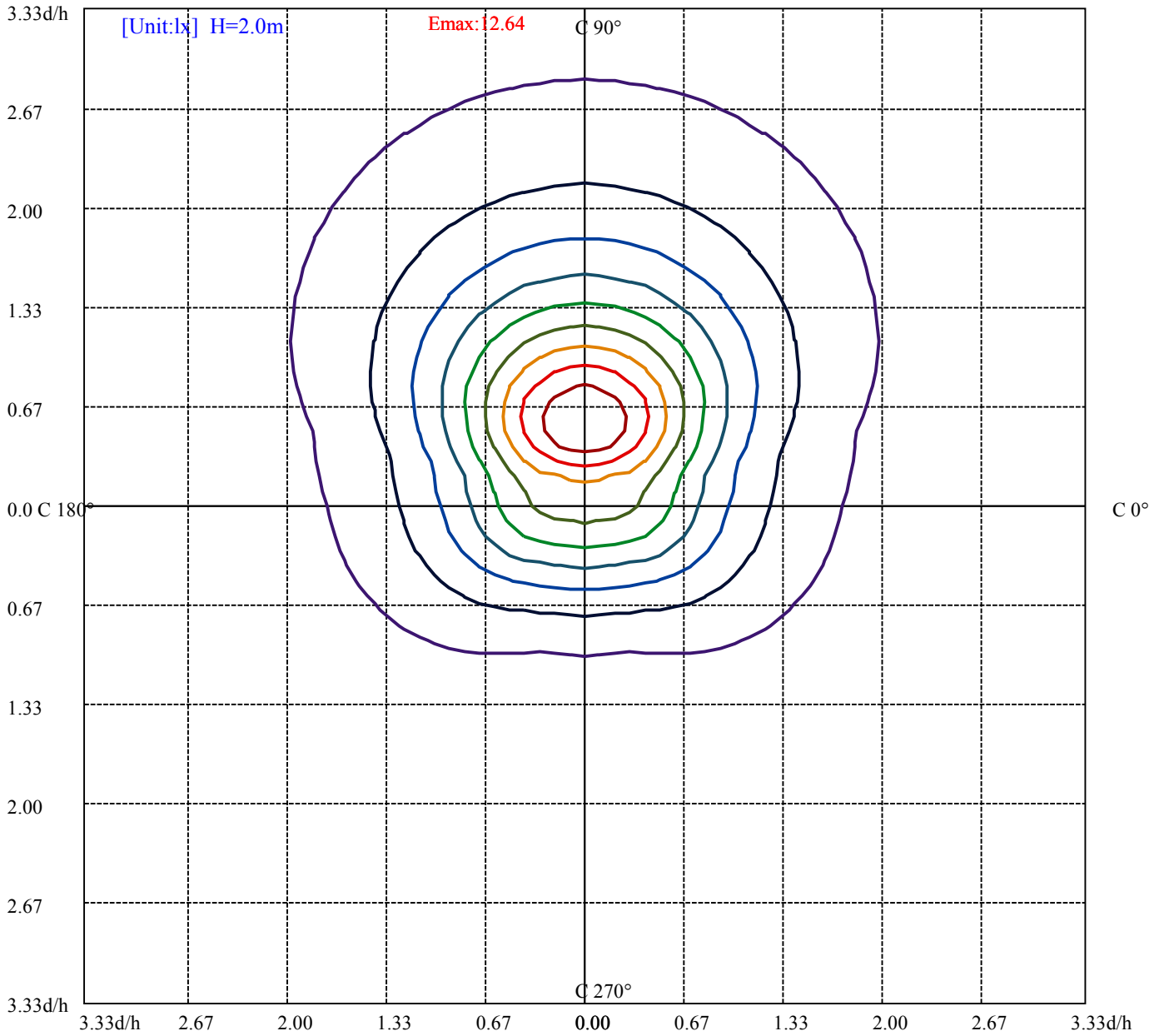
C90(Max): ——
 C0/C180: ——
 C90/C270: ——

Field angle(10%Imax):C0/180Left:0.0 Right:0.0
 :C90/270Left:134.8 Right:88.2

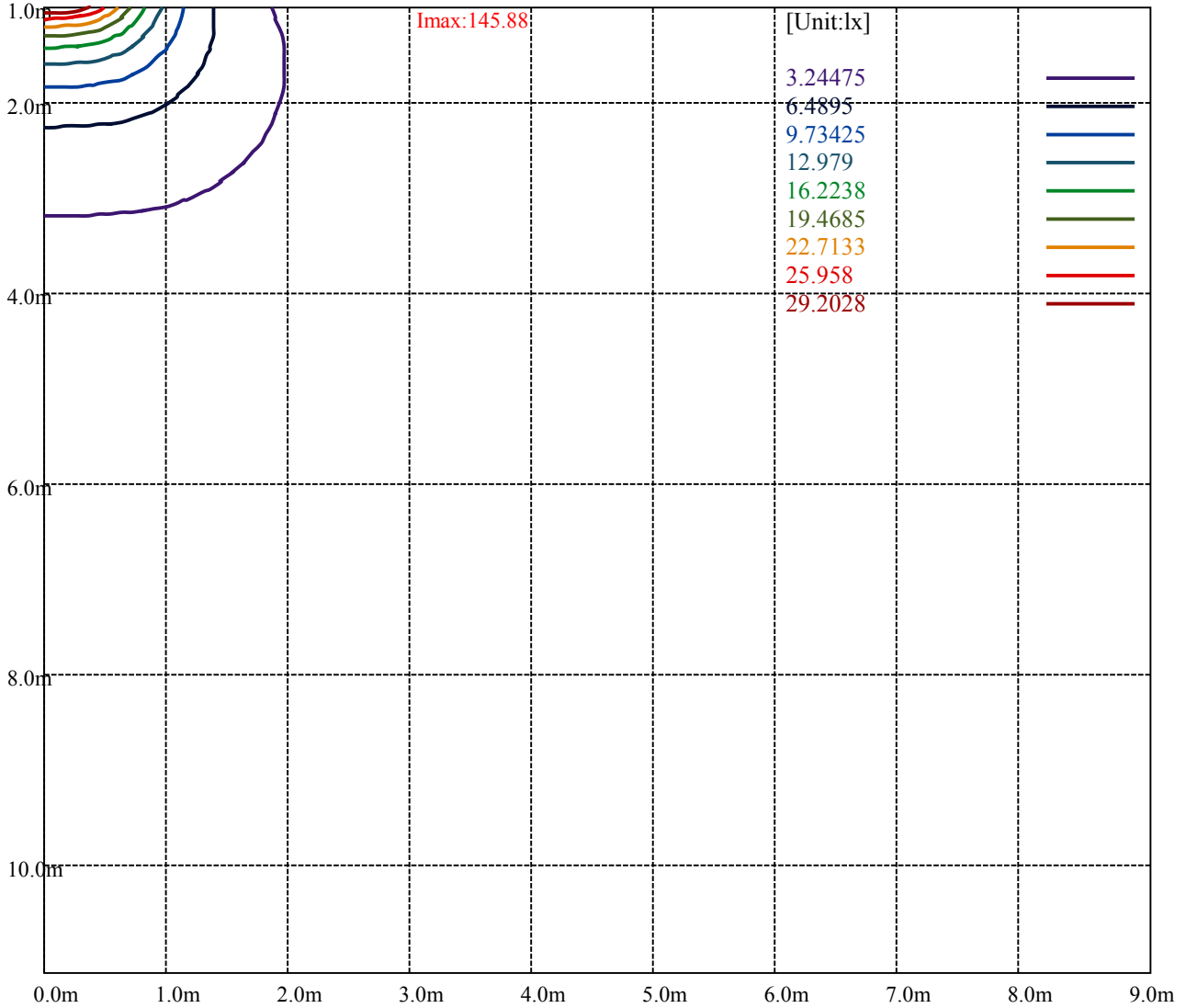
Beam Angle(50%Imax):C0/180Left:215.6 Right:115.6
 :C90/270Left:62.3 Right:69.4



Max , Ave Beam angle of C90 plane 220.68



(10%Emax) 1.2644	—
(20%Emax) 2.5288	—
(30%Emax) 3.7932	—
(40%Emax) 5.0576	—
(50%Emax) 6.322	—
(60%Emax) 7.5864	—
(70%Emax) 8.8508	—
(80%Emax) 10.1152	—
(90%Emax) 11.3796	—



Luminance Table

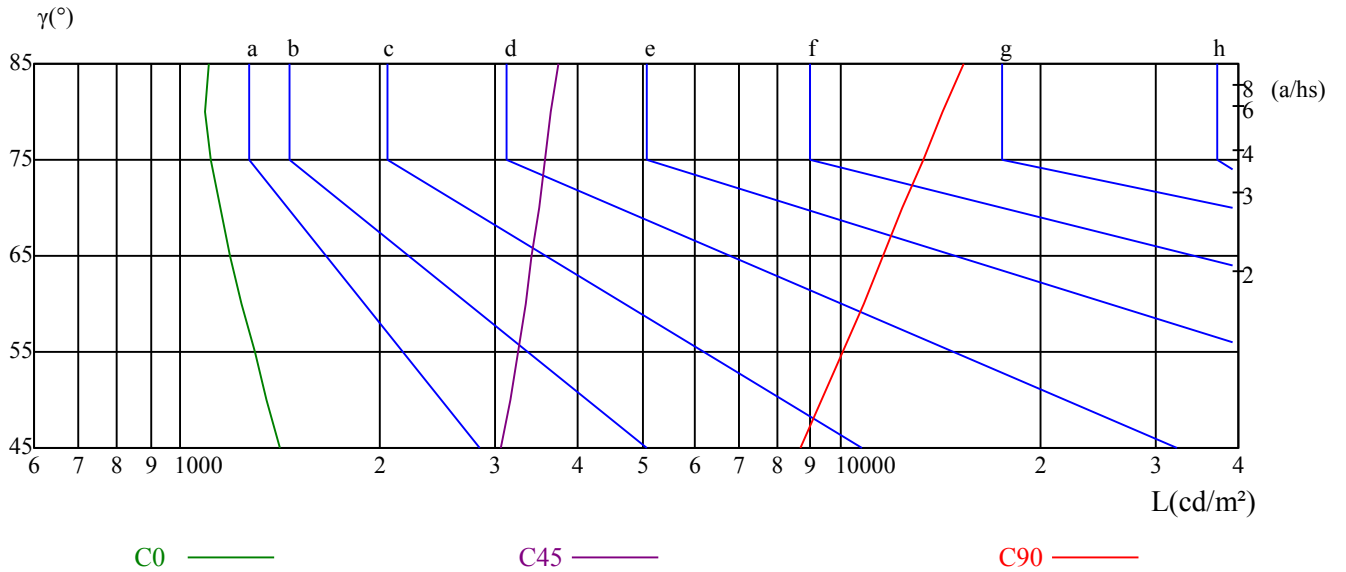
γ	45	50	55	60	65	70	75	80	85
C0	1412	1352	1293	1239	1191	1146	1108	1088	1103
C45	3052	3155	3251	3335	3403	3486	3559	3642	3738
C90	8663	9322	10065	10806	11600	12421	13296	14268	15316

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
10129	18357	15817	15580	31022	26556	45240	93621	81077

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	0.87	0.81	0.76	0.79	0.74	0.70	0.66	0.62	0.58	0.53	0.50	0.48	0.42	0.39	0.37	0.32
2	0.73	0.65	0.58	0.67	0.60	0.54	0.55	0.49	0.45	0.44	0.40	0.36	0.34	0.31	0.28	0.23
3	0.63	0.54	0.46	0.57	0.49	0.43	0.47	0.41	0.35	0.37	0.33	0.29	0.29	0.25	0.22	0.17
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	0.32	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	0.43	0.33	0.27	0.39	0.31	0.25	0.32	0.25	0.20	0.26	0.20	0.16	0.19	0.15	0.12	0.09
7	0.38	0.29	0.23	0.35	0.27	0.21	0.29	0.22	0.18	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	0.29	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	0.21	0.15	0.26	0.19	0.14	0.22	0.16	0.12	0.17	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	32.45	32.72	33.34	34.77	36.38	37.81	39.06	39.87	40.40
15.0	32.45	32.80	33.70	35.30	37.53	39.49	41.45	43.32	45.02
30.0	32.45	33.08	34.25	36.76	40.00	44.76	50.06	55.37	60.67
45.0	32.45	33.17	34.87	38.56	45.30	53.21	61.48	69.30	77.03
60.0	32.45	33.35	35.87	41.82	50.47	60.48	70.66	80.67	89.95
75.0	32.45	33.44	36.59	44.16	54.35	65.53	76.52	86.62	96.80
90.0	32.45	33.62	36.88	45.01	55.22	66.70	78.09	89.12	99.24
105.0	32.45	33.62	36.61	43.56	53.51	64.35	74.57	85.77	95.26
120.0	32.45	33.35	35.87	41.01	49.12	58.50	68.23	77.78	86.80
135.0	32.45	32.62	34.39	37.66	43.06	49.95	56.85	64.36	71.00
150.0	32.45	33.17	34.52	36.77	42.00	42.81	46.96	51.19	55.43
165.0	32.45	32.90	34.07	35.77	37.57	39.28	40.90	42.15	43.23
180.0	32.45	32.72	33.52	34.95	36.56	37.99	38.97	39.60	40.31
195.0	32.45	32.36	32.54	33.70	34.50	35.39	36.01	36.37	36.55
210.0	32.45	32.09	31.91	32.27	32.63	32.72	32.72	32.27	32.00
225.0	32.45	31.73	31.19	30.65	29.93	29.21	28.49	27.41	26.34
240.0	32.45	31.55	30.55	29.29	27.85	26.23	24.61	22.62	20.55
255.0	32.45	31.37	30.19	28.57	26.77	24.70	22.35	19.83	17.13
270.0	32.45	31.45	30.10	28.56	26.84	24.67	22.41	19.88	17.26
285.0	32.45	31.45	30.19	28.74	27.02	25.04	22.78	20.25	19.52
300.0	32.45	31.55	30.55	29.29	29.02	26.59	25.15	23.43	21.63
315.0	32.45	31.21	30.50	29.97	29.62	29.18	28.56	27.94	26.88
330.0	32.45	32.09	31.82	32.09	32.63	32.99	33.26	33.17	32.90
345.0	32.45	32.36	32.63	33.44	34.78	35.59	36.40	37.03	37.30
360.0	32.45	32.72	33.34	34.77	36.38	37.81	39.06	39.87	40.40
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	40.76	40.76	40.40	39.69	38.88	37.81	36.56	35.58	35.40
15.0	46.89	48.40	49.83	50.72	51.52	51.97	52.24	52.42	53.22
30.0	65.16	69.66	73.70	77.21	80.00	82.15	83.32	84.67	85.48
45.0	84.22	90.78	96.53	101.48	105.16	108.40	110.82	112.53	113.61
60.0	98.06	106.36	112.94	118.97	124.11	127.99	130.87	132.49	133.85
75.0	106.09	114.38	121.86	127.63	133.76	137.45	140.79	142.77	143.76
90.0	108.73	116.41	124.10	130.51	136.12	140.36	143.35	145.25	145.52
105.0	104.57	112.80	120.21	126.45	131.15	135.94	138.83	140.82	141.90
120.0	94.82	101.85	108.79	114.29	119.06	122.94	125.55	127.54	128.17
135.0	77.45	83.28	88.59	92.92	96.28	99.55	101.41	103.00	104.24
150.0	59.40	63.00	66.07	68.86	71.20	73.01	74.27	74.99	76.70
165.0	43.86	44.31	44.67	44.76	44.67	44.31	44.04	43.95	44.85
180.0	40.13	40.13	39.69	39.06	38.17	37.10	36.02	35.31	35.58
195.0	36.28	35.92	35.30	34.32	33.34	32.27	31.38	31.29	31.38
210.0	31.28	30.47	29.39	28.22	26.96	25.71	25.17	25.26	25.53
225.0	24.99	23.55	21.93	20.31	18.70	17.44	16.81	17.26	17.62
240.0	18.30	16.04	13.97	11.81	9.82	8.11	7.84	8.11	8.38
255.0	14.42	11.72	8.83	5.86	3.33	1.26	1.08	1.17	1.26
270.0	14.46	11.66	8.86	8.32	3.52	1.27	1.17	1.27	1.36
285.0	14.55	11.75	9.31	6.60	3.89	1.99	1.54	1.81	1.99
300.0	19.74	17.58	15.77	13.70	11.99	10.46	9.82	10.18	10.55
315.0	25.82	24.67	23.34	21.93	20.51	19.19	18.39	18.57	18.92
330.0	32.54	31.73	30.92	29.83	28.66	27.58	26.68	26.59	26.77
345.0	37.30	37.03	36.67	35.77	34.87	33.71	32.72	32.18	32.18
360.0	40.76	40.76	40.40	39.69	38.88	37.81	36.56	35.58	35.40

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	35.49	35.93	36.20	36.83	37.90	38.53	38.79	39.51	39.06
15.0	54.20	54.73	55.45	55.71	56.52	56.78	56.87	56.34	55.27
30.0	86.56	87.37	87.64	87.55	87.10	86.47	84.94	82.69	80.18
45.0	114.06	115.05	114.69	114.33	113.25	111.72	109.21	105.70	101.30
60.0	134.21	134.48	134.48	133.85	132.22	129.88	126.55	122.22	116.63
75.0	144.03	143.58	143.94	142.95	141.60	139.16	135.56	131.14	125.10
90.0	145.88	145.43	145.52	145.43	144.07	141.72	138.11	133.41	127.71
105.0	142.35	142.26	141.81	141.72	139.91	137.47	133.95	129.34	123.73
120.0	129.34	129.25	129.34	128.80	127.54	125.46	122.22	118.07	112.76
135.0	105.30	105.74	105.48	105.65	104.50	103.18	101.14	97.78	94.07
150.0	77.60	78.23	78.60	78.96	79.05	78.69	77.42	75.53	72.65
165.0	45.57	46.29	46.83	47.91	48.90	49.44	49.53	49.26	48.45
180.0	35.40	35.67	36.20	36.92	37.63	38.17	38.44	38.35	37.99
195.0	31.65	31.73	32.09	32.71	33.07	33.52	33.78	33.78	33.25
210.0	25.71	25.80	26.07	26.43	26.78	27.05	27.14	27.05	26.78
225.0	17.53	17.53	17.53	17.98	18.52	18.97	19.14	19.59	19.68
240.0	8.38	8.38	8.29	9.01	9.91	11.09	11.99	13.07	14.06
255.0	1.26	1.26	1.17	2.25	3.79	5.14	6.76	8.29	10.09
270.0	1.27	1.17	1.17	1.99	3.25	4.70	6.24	7.86	9.40
285.0	1.99	2.08	2.08	2.71	3.98	5.33	6.69	7.86	9.31
300.0	10.64	10.64	10.55	11.27	12.17	13.16	14.24	14.87	15.50
315.0	19.10	19.10	19.19	19.72	20.25	20.87	21.31	21.66	21.75
330.0	27.13	27.13	27.31	27.94	28.39	28.75	28.93	29.02	28.66
345.0	32.45	32.54	32.81	33.44	34.16	34.78	34.96	35.32	35.05
360.0	35.49	35.93	36.20	36.83	37.90	38.53	38.79	39.51	39.06
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	38.35	37.10	35.67	33.79	30.30	26.73	22.53	16.63	10.73
15.0	53.48	51.26	48.23	45.11	40.47	34.50	28.70	21.66	12.21
30.0	76.13	71.91	66.60	60.58	54.47	47.10	37.84	28.31	14.83
45.0	95.90	89.52	82.24	74.24	66.42	57.52	46.47	34.16	19.50
60.0	110.14	102.66	94.46	84.90	74.81	64.17	53.36	39.84	23.34
75.0	118.25	109.96	100.86	90.58	80.40	68.86	56.87	42.81	26.59
90.0	120.57	113.16	103.40	93.73	82.61	71.58	58.21	44.83	26.93
105.0	116.59	108.55	99.51	89.39	79.63	68.51	56.58	43.20	26.93
120.0	106.36	99.24	91.30	82.11	72.47	62.28	51.19	39.66	24.79
135.0	88.77	83.02	76.39	69.14	61.27	53.22	43.59	32.89	21.57
150.0	69.22	64.99	60.66	55.70	50.11	43.08	35.69	26.41	18.75
165.0	47.19	45.48	43.23	40.45	36.67	31.46	26.25	19.86	14.65
180.0	36.92	35.49	34.24	31.55	27.98	24.22	19.22	13.68	9.65
195.0	32.45	31.65	30.49	27.90	25.67	24.51	16.31	11.41	8.29
210.0	26.43	26.07	24.09	22.92	21.12	17.89	13.75	10.25	7.19
225.0	19.68	19.77	19.06	17.26	15.73	13.57	10.61	8.81	5.21
240.0	14.60	14.96	15.32	14.51	12.44	9.82	8.47	6.76	1.98
255.0	11.54	12.44	13.43	14.06	12.71	9.73	6.85	6.13	2.52
270.0	10.76	11.93	12.92	13.20	12.47	9.49	6.87	5.97	4.79
285.0	10.57	11.21	12.20	12.29	11.21	9.31	8.04	6.78	6.33
300.0	15.77	15.86	15.95	15.59	14.06	12.17	10.00	8.83	7.57
315.0	21.40	21.04	20.69	19.36	18.30	16.36	13.26	10.26	8.22
330.0	28.21	27.58	26.86	25.69	23.79	21.00	16.94	12.17	8.92
345.0	34.16	33.26	32.09	30.11	26.87	24.27	19.41	13.75	9.98
360.0	38.35	37.10	35.67	33.79	30.30	26.73	22.53	16.63	10.73

Intensity data(cd)

C/γ(°)	180.0
0.0	8.76
15.0	7.13
30.0	6.74
45.0	6.29
60.0	6.22
75.0	6.58
90.0	7.86
105.0	9.49
120.0	11.09
135.0	11.58
150.0	11.27
165.0	10.61
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	8.76