
乐达凯

Client:

LumCAT: BLKW0718LAJUDBK-2700K

Luminaire: LED 灯具

Report No:

Ballast type:

Test No: LCZP24040387

Voltage(V): 119.960

LampCAT:

Current(A): 0.174

Lamp flux(lm): 1211.2

Power (W): 20.640

Number of Lamps: 1

PF: 0.992

Length(mm): 125

Width(mm): 125

Phm Type: C

Height(mm): 310

Photometric Results

Lumens(lm): 1211.23, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 58.68

Central intensity(cd): 6.108, Maximum intensity(cd): 289.311

Angle of maximum intensity: C=75.0 γ =90.0

Beam Angle(50%Imax): [C0/180]Total=281.4

[C90/270]Total=104.5

Field angle(10%Imax): [C0/180]Total=327.5

[C90/270]Total=155.1

Maximum s/h(1/2): C0_180=6.82 C90_270=10.41

Maximum s/h(1/4): C0_180=6.31 C90_270=9.75

Up flux rate of lamp(%): 46.41%

Down flux rate of lamp(%): 53.59%

Up flux rate of LUM(%): 46.41%

Down flux rate of LUM(%): 53.59%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 21.380%

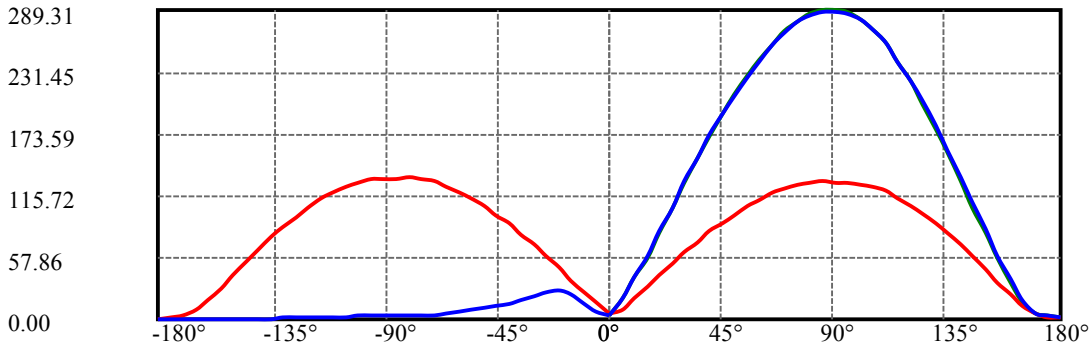
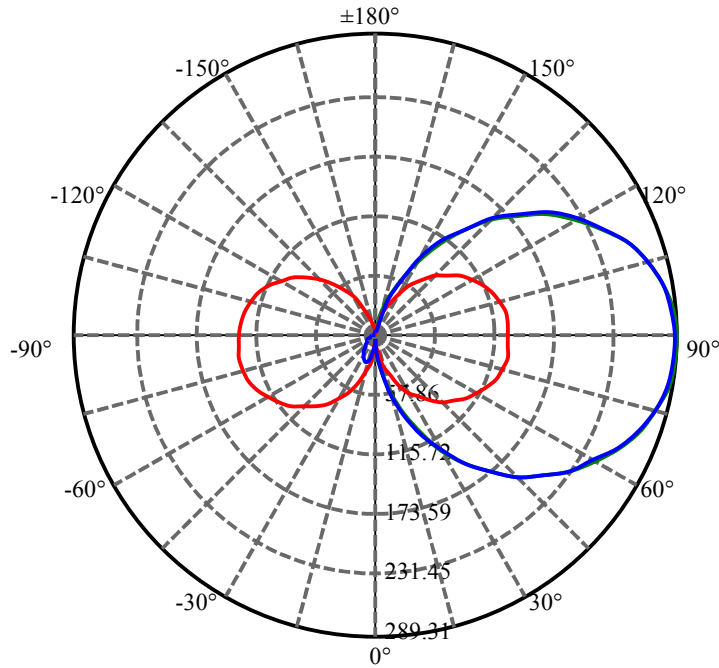
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5.419	0.000	0	0.00%	0.00%
5.0	13.552	0.227	0.227	0.02%	0.02%
10.0	27.335	1.463	1.689	0.12%	0.14%
15.0	39.947	3.991	5.681	0.33%	0.47%
20.0	51.272	7.518	13.198	0.62%	1.09%
25.0	60.999	11.775	24.974	0.97%	2.06%
30.0	69.959	16.573	41.546	1.37%	3.43%
35.0	78.323	21.836	63.382	1.80%	5.23%
40.0	86.175	27.445	90.827	2.27%	7.50%
45.0	93.420	33.254	124.081	2.75%	10.24%
50.0	100.303	39.145	163.225	3.23%	13.48%
55.0	106.747	45.020	208.245	3.72%	17.19%
60.0	112.649	50.713	258.958	4.19%	21.38%
65.0	117.818	56.027	314.985	4.63%	26.01%
70.0	122.429	60.832	375.817	5.02%	31.03%
75.0	125.958	64.924	440.741	5.36%	36.39%
80.0	128.117	67.983	508.724	5.61%	42.00%
85.0	128.873	69.830	578.555	5.77%	47.77%
90.0	128.682	70.521	649.075	5.82%	53.59%
95.0	127.848	70.240	719.315	5.80%	59.39%
100.0	125.591	68.865	788.181	5.69%	65.07%
105.0	121.751	66.182	854.362	5.46%	70.54%
110.0	116.205	62.198	916.56	5.14%	75.67%
115.0	109.113	57.052	973.612	4.71%	80.38%
120.0	101.321	51.157	1024.769	4.22%	84.61%
125.0	92.275	44.749	1069.518	3.69%	88.30%
130.0	82.593	38.022	1107.54	3.14%	91.44%
135.0	72.159	31.270	1138.81	2.58%	94.02%
140.0	61.493	24.747	1163.557	2.04%	96.06%
145.0	49.824	18.572	1182.13	1.53%	97.60%
150.0	38.215	12.964	1195.094	1.07%	98.67%
155.0	27.122	8.268	1203.362	0.68%	99.35%
160.0	17.418	4.671	1208.034	0.39%	99.74%
165.0	9.053	2.182	1210.215	0.18%	99.92%
170.0	3.922	0.770	1210.985	0.06%	99.98%
175.0	2.002	0.212	1211.197	0.02%	100.00%
180.0	0.460	0.029	1211.226	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	41.55	3.43%	3.43%
0-40	90.83	7.50%	7.50%
0-60	258.96	21.38%	21.38%
0-90	649.08	53.59%	53.59%
0-120	1024.77	84.61%	84.61%
0-180	1211.23	100.00%	100.00%
60-90	390.12	32.21%	32.21%
90-120	375.69	31.02%	31.02%
90-130	458.46	37.85%	37.85%
90-150	546.02	45.08%	45.08%
90-180	562.12	46.41%	46.41%
0-114.59	968.98	80.00%	80.00%

ZONAL LUMEN SUMMARY

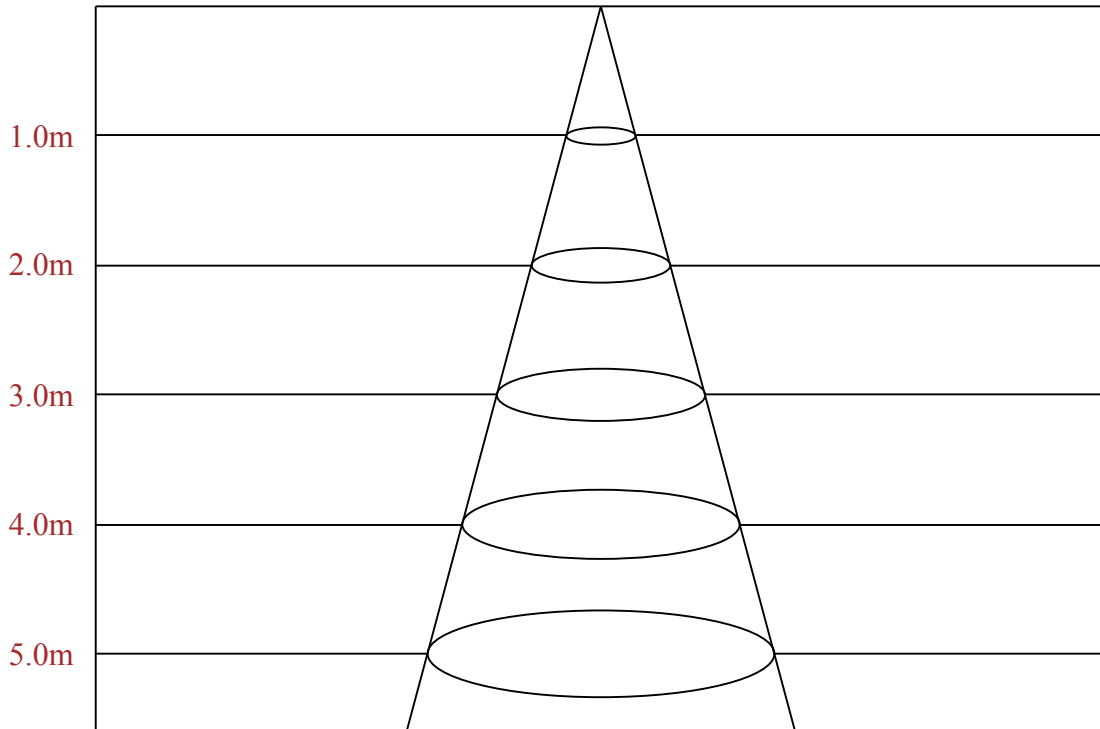
0-10	1.69
10-20	11.51
20-30	28.35
30-40	49.28
40-50	72.40
50-60	95.73
60-70	116.86
70-80	132.91
80-90	140.35
90-100	139.11
100-110	128.38
110-120	108.21
120-130	82.77
130-140	56.02
140-150	31.54
150-160	12.94
160-170	2.95
170-180	0.21



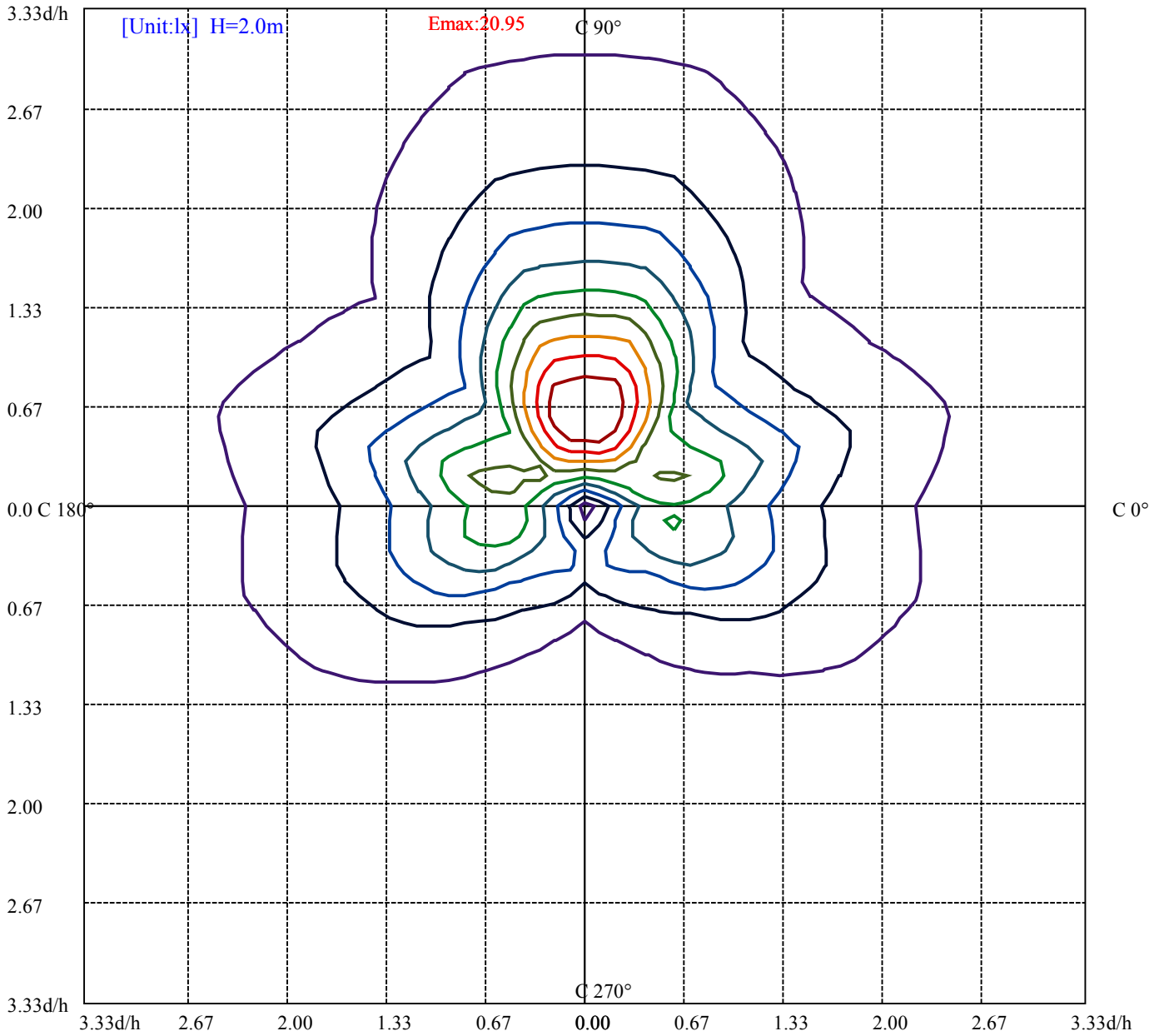
C75(Max): ——
 C0/C180: ——
 C90/C270: ——

Field angle(10%Imax):C0/180Left:82.6 Right:244.9
 :C90/270Left:82.9 Right:72.2

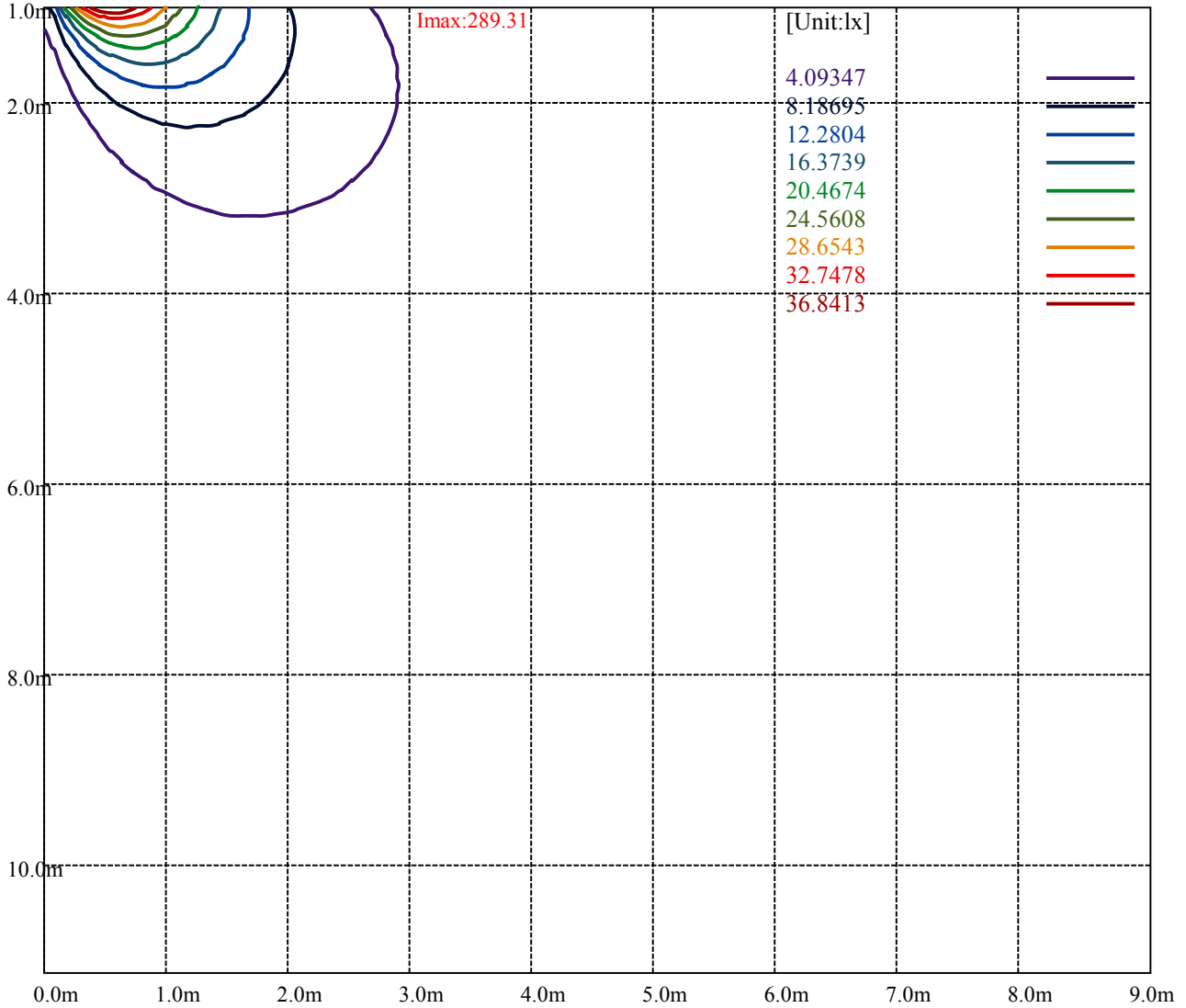
Beam Angle(50%Imax):C0/180Left:59.5 Right:221.9
 :C90/270Left:56.6 Right:47.9



Max , Ave Beam angle of C75 plane 316.73



(10%Emax) 2.095118	—
(20%Emax) 4.190225	—
(30%Emax) 6.28535	—
(40%Emax) 8.380475	—
(50%Emax) 10.47558	—
(60%Emax) 12.5707	—
(70%Emax) 14.66582	—
(80%Emax) 16.76093	—
(90%Emax) 18.85605	—



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Luminance Limiting Curve(no luminous side)

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Luminance Table

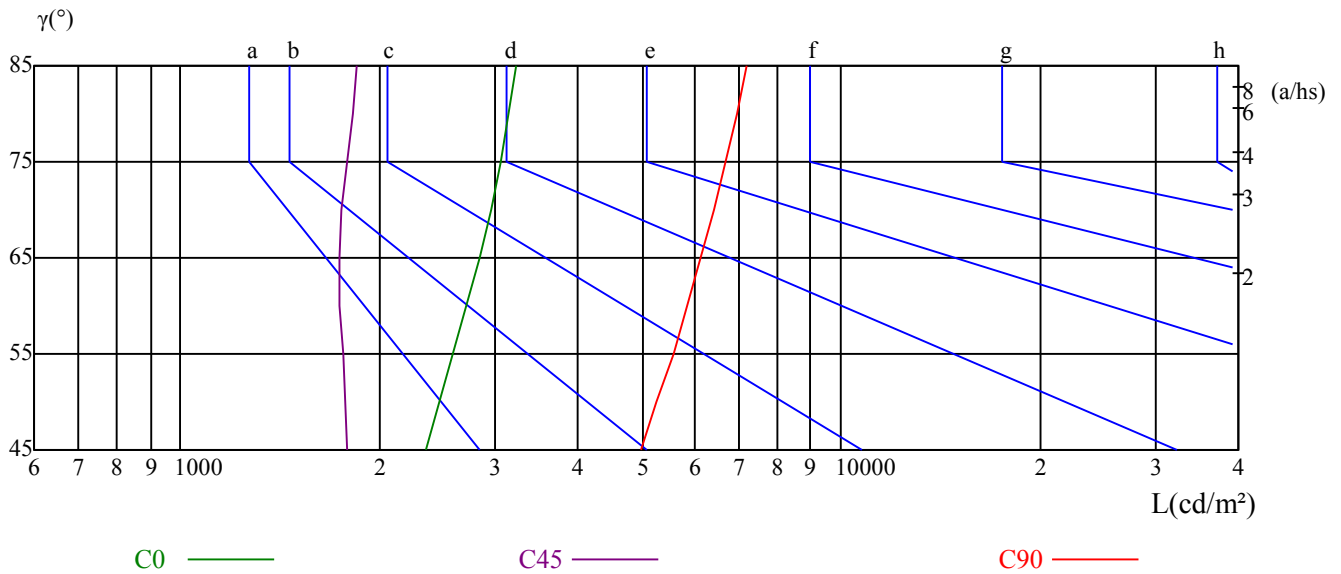
γ	45	50	55	60	65	70	75	80	85
C0	2350	2464	2591	2710	2829	2945	3045	3138	3216
C45	1789	1771	1760	1745	1743	1754	1792	1824	1849
C90	4988	5261	5565	5834	6140	6429	6694	6944	7183

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
18376	19750	11762	31850	34748	20062	95637	106553	59823

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	1.08	1.08	1.08	1.00	1.00	1.00	0.85	0.85	0.85	0.72	0.72	0.72	0.59	0.59	0.59	0.54
1	0.86	0.80	0.74	0.79	0.73	0.68	0.66	0.62	0.58	0.54	0.51	0.48	0.43	0.41	0.38	0.33
2	0.72	0.63	0.56	0.66	0.58	0.52	0.54	0.48	0.43	0.44	0.40	0.35	0.35	0.31	0.28	0.23
3	0.61	0.51	0.44	0.56	0.47	0.40	0.46	0.39	0.34	0.37	0.32	0.27	0.29	0.25	0.21	0.17
4	0.53	0.43	0.35	0.48	0.40	0.33	0.40	0.33	0.27	0.32	0.26	0.22	0.25	0.20	0.17	0.13
5	0.46	0.36	0.29	0.42	0.34	0.27	0.35	0.28	0.22	0.28	0.22	0.18	0.22	0.17	0.14	0.10
6	0.41	0.31	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	0.27	0.21	0.34	0.25	0.19	0.28	0.21	0.16	0.22	0.17	0.13	0.17	0.13	0.10	0.07
8	0.33	0.24	0.18	0.30	0.22	0.17	0.25	0.18	0.14	0.20	0.15	0.11	0.16	0.11	0.08	0.06
9	0.30	0.21	0.16	0.27	0.20	0.14	0.23	0.16	0.12	0.18	0.13	0.09	0.14	0.10	0.07	0.05
10	0.27	0.19	0.14	0.25	0.18	0.13	0.21	0.15	0.10	0.17	0.12	0.08	0.13	0.09	0.06	0.04

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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	6.11	9.25	19.40	30.36	41.23	52.45	63.05	72.75	82.01
15.0	5.66	12.31	25.06	38.17	52.37	66.83	80.57	92.87	105.90
30.0	5.21	14.64	32.25	47.60	57.22	66.47	75.27	83.08	90.27
45.0	4.85	16.35	39.43	51.29	60.18	68.08	74.64	80.21	85.06
60.0	4.58	18.59	39.79	55.42	71.68	89.82	105.27	120.63	134.91
75.0	4.40	20.21	39.34	57.75	80.75	104.64	127.10	151.08	171.29
90.0	4.13	20.30	39.97	58.56	82.45	105.09	128.62	150.90	171.83
105.0	4.04	21.11	40.33	57.84	80.21	103.65	126.83	148.65	167.96
120.0	3.95	19.76	41.77	55.78	71.14	85.60	100.42	114.52	127.01
135.0	13.65	18.77	39.43	51.65	58.83	65.66	71.23	76.35	80.66
150.0	4.13	16.62	33.23	47.34	65.39	67.37	76.62	84.79	92.25
165.0	4.31	13.56	26.50	39.97	54.52	69.34	82.45	95.84	110.30
180.0	6.11	15.45	25.60	36.65	49.22	60.18	70.78	79.94	89.01
195.0	5.66	13.38	23.62	35.93	48.59	60.27	71.77	82.45	92.34
210.0	5.21	12.84	23.62	35.75	45.27	54.25	62.16	70.51	77.78
225.0	4.85	11.50	22.01	31.53	36.92	40.87	44.10	47.51	50.66
240.0	4.58	10.51	20.39	29.82	34.49	35.75	35.75	35.39	35.12
255.0	4.40	9.07	16.98	27.57	33.50	33.95	31.53	28.11	24.34
270.0	4.13	7.54	14.19	24.07	26.68	24.97	21.83	18.50	15.09
285.0	4.04	7.10	14.64	25.78	31.17	31.53	29.46	26.05	24.97
300.0	3.95	7.90	17.43	28.11	29.82	35.57	35.39	34.94	34.76
315.0	13.65	8.80	19.94	28.38	34.13	37.19	40.24	43.02	45.72
330.0	4.13	9.70	20.48	31.89	40.96	49.31	57.40	64.58	71.77
345.0	4.31	9.97	20.66	31.53	43.83	55.15	66.56	77.07	87.22
360.0	6.11	9.25	19.40	30.36	41.23	52.45	63.05	72.75	82.01
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	90.36	97.90	105.45	112.10	118.02	122.96	126.29	128.26	128.53
15.0	118.74	131.05	142.81	153.50	162.39	170.84	177.30	181.53	183.86
30.0	97.01	103.02	108.05	112.63	116.68	120.27	123.32	126.02	127.63
45.0	89.10	92.16	94.76	96.47	98.08	99.70	102.13	103.38	103.47
60.0	147.48	159.07	168.77	177.75	185.66	193.92	199.67	203.35	204.79
75.0	191.59	210.09	227.69	243.14	257.42	269.82	279.16	285.45	288.59
90.0	191.77	209.01	226.53	241.35	256.17	268.47	277.63	283.83	287.07
105.0	187.81	206.05	223.02	238.65	253.47	266.05	275.39	282.04	285.72
120.0	138.77	148.92	157.54	166.53	173.71	181.98	188.17	192.48	194.64
135.0	83.89	86.77	89.01	90.54	91.71	93.50	95.48	96.65	96.65
150.0	98.62	104.28	109.49	113.53	117.75	120.81	123.86	126.02	126.83
165.0	121.35	134.19	144.61	155.21	164.37	171.47	177.66	181.17	183.32
180.0	97.36	105.45	112.45	119.28	124.67	128.62	131.32	132.39	131.95
195.0	102.84	112.45	120.81	129.16	136.44	142.10	146.23	148.29	149.01
210.0	84.88	91.35	97.81	103.47	108.68	112.90	115.33	116.50	115.96
225.0	53.80	56.32	59.28	61.62	63.68	65.66	66.74	66.65	65.84
240.0	34.58	34.49	34.40	34.31	34.22	34.22	34.31	34.22	33.68
255.0	21.65	19.94	19.22	18.77	18.32	18.05	18.05	17.96	17.60
270.0	12.31	9.97	8.35	8.08	4.67	3.59	3.41	3.32	3.14
285.0	19.85	18.50	17.96	17.69	17.34	17.07	17.16	16.89	16.62
300.0	34.40	33.86	33.77	33.86	33.77	33.95	33.95	33.86	33.41
315.0	48.23	50.57	52.99	55.24	57.22	59.10	60.18	60.45	59.91
330.0	78.59	85.24	91.62	97.36	102.57	106.80	109.58	111.11	110.93
345.0	97.10	106.62	115.51	123.32	130.60	136.44	140.66	142.99	143.80
360.0	90.36	97.90	105.45	112.10	118.02	122.96	126.29	128.26	128.53

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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	127.99	128.08	126.65	123.77	119.82	113.44	106.62	98.62	89.64
15.0	184.76	183.68	181.08	175.96	168.23	158.17	147.57	134.10	120.99
30.0	128.17	128.35	127.10	124.04	119.91	113.89	106.89	98.98	90.18
45.0	102.93	102.48	100.87	97.90	93.32	87.84	81.65	75.00	67.19
60.0	204.34	202.27	198.32	191.68	181.71	169.67	156.83	141.92	125.93
75.0	289.31	286.62	280.69	271.17	257.96	240.72	222.21	201.11	178.29
90.0	287.42	284.82	279.79	271.08	258.05	241.62	223.38	204.16	181.80
105.0	286.53	284.46	279.07	270.45	257.87	242.15	223.92	203.62	182.87
120.0	195.00	193.74	190.78	185.12	176.23	165.45	154.04	140.48	125.48
135.0	96.02	95.48	94.13	91.35	87.66	82.81	77.34	70.96	64.40
150.0	126.92	126.38	124.40	120.63	115.78	109.31	101.86	94.22	85.24
165.0	184.13	182.60	178.83	173.44	165.45	155.57	144.07	131.68	117.75
180.0	131.32	130.33	127.99	124.40	119.28	112.72	104.73	96.02	86.41
195.0	148.65	147.04	143.71	138.77	132.04	123.50	114.07	103.20	91.62
210.0	114.79	113.71	111.11	107.42	102.39	95.75	88.11	79.67	71.32
225.0	64.49	64.22	62.87	60.90	57.84	54.25	52.99	45.36	39.79
240.0	33.05	32.96	32.78	31.26	30.00	28.02	26.14	23.53	20.93
255.0	17.34	17.07	16.44	15.81	14.64	13.38	11.95	10.24	8.62
270.0	3.05	2.96	2.87	2.69	2.43	2.16	1.71	1.35	0.99
285.0	16.62	16.44	16.17	15.63	14.64	13.56	12.40	10.87	9.43
300.0	32.87	32.96	32.34	31.44	30.18	28.47	26.50	24.25	21.74
315.0	58.92	59.19	58.65	57.04	54.70	51.47	48.14	43.65	39.34
330.0	110.12	109.76	107.87	104.82	99.79	94.04	87.04	79.58	71.14
345.0	143.62	142.72	139.67	135.27	128.98	120.72	111.56	102.04	91.17
360.0	127.99	128.08	126.65	123.77	119.82	113.44	106.62	98.62	89.64
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	80.12	70.42	59.01	47.25	34.94	23.08	13.02	5.66	1.89
15.0	106.08	90.63	74.01	57.31	42.13	27.57	15.36	6.65	2.60
30.0	80.66	69.88	58.92	46.98	35.03	23.62	14.46	6.56	3.32
45.0	59.55	51.20	42.31	33.05	24.97	16.80	10.33	5.93	3.41
60.0	108.77	92.16	73.56	56.23	38.89	23.80	12.13	5.84	3.50
75.0	155.57	130.24	104.73	80.12	56.95	34.67	17.07	6.11	3.32
90.0	158.44	133.47	109.13	84.43	59.55	36.92	18.05	6.20	3.14
105.0	157.99	134.37	108.95	84.16	59.10	37.19	17.96	5.93	3.05
120.0	109.40	92.16	75.81	56.95	39.97	24.16	12.57	5.57	3.05
135.0	56.59	49.04	40.24	30.90	22.28	15.27	9.07	5.30	3.05
150.0	75.36	64.94	53.89	41.32	30.00	19.49	11.05	5.30	2.96
165.0	103.02	86.68	70.69	54.07	38.71	23.71	12.75	5.39	2.43
180.0	76.62	65.03	53.71	41.50	29.55	17.78	8.89	3.23	1.35
195.0	79.40	66.20	53.35	39.70	27.04	24.88	7.81	2.87	1.26
210.0	61.53	58.47	40.33	30.36	20.57	12.04	5.75	2.25	1.08
225.0	34.31	28.47	22.46	16.26	10.69	6.11	3.32	1.89	0.90
240.0	18.14	15.09	11.95	8.53	5.48	3.50	2.16	1.35	0.81
255.0	7.10	5.66	4.22	3.05	2.16	1.53	1.08	0.81	0.54
270.0	0.72	0.63	0.54	0.54	0.54	0.45	0.54	0.54	0.63
285.0	7.99	6.56	5.30	4.04	2.87	2.07	1.35	0.99	0.72
300.0	18.95	16.08	12.84	9.25	6.20	4.04	2.60	1.62	1.08
315.0	34.31	29.10	23.53	17.69	12.22	7.28	3.77	2.07	1.17
330.0	61.89	52.54	42.57	32.16	22.28	13.92	6.74	2.60	1.26
345.0	79.31	66.83	53.71	41.32	28.83	18.14	9.43	3.50	1.53
360.0	80.12	70.42	59.01	47.25	34.94	23.08	13.02	5.66	1.89

Intensity data(cd)

C/γ(°)	180.0
0.0	1.08
15.0	0.63
30.0	0.81
45.0	0.81
60.0	0.81
75.0	1.17
90.0	1.17
105.0	0.99
120.0	0.99
135.0	0.90
150.0	0.81
165.0	0.90
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	1.08