
乐达凯

Client:

LumCAT: BLKW0718LAJUDBK-5000K

Luminaire: LED 灯具

Report No:

Ballast type:

Test No: LCZP24040387

Voltage(V): 120.050

LampCAT:

Current(A): 0.172

Lamp flux(lm): 1533.1

Power (W): 20.500

Number of Lamps: 1

PF: 0.991

Length(mm): 125

Width(mm): 125

Phm Type: C

Height(mm): 310

Photometric Results

Lumens(lm): 1533.06, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 74.78

Central intensity(cd): 7.275, Maximum intensity(cd): 371.226

Angle of maximum intensity: C=75.0 γ =90.0

Beam Angle(50%Imax): [C0/180]Total=281.5

[C90/270]Total=104.6

Field angle(10%Imax): [C0/180]Total=327.3

[C90/270]Total=155.0

Maximum s/h(1/2): C0_180=6.91 C90_270=10.53

Maximum s/h(1/4): C0_180=6.41 C90_270=9.94

Up flux rate of lamp(%): 46.40%

Down flux rate of lamp(%): 53.60%

Up flux rate of LUM(%): 46.40%

Down flux rate of LUM(%): 53.60%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 21.396%

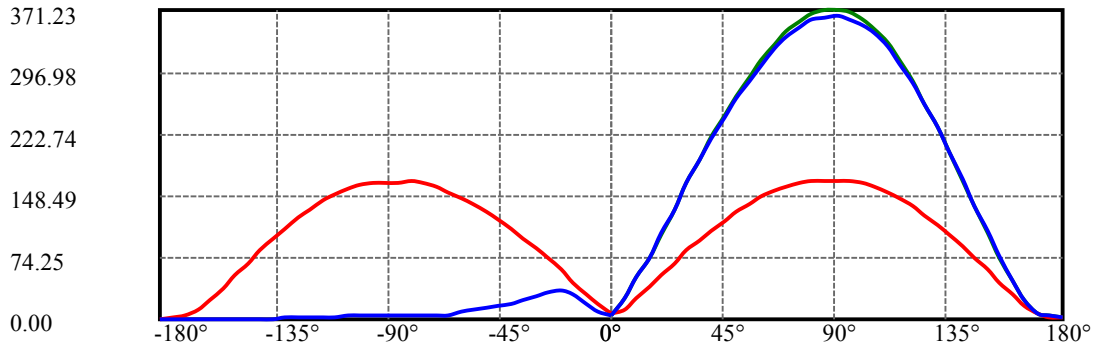
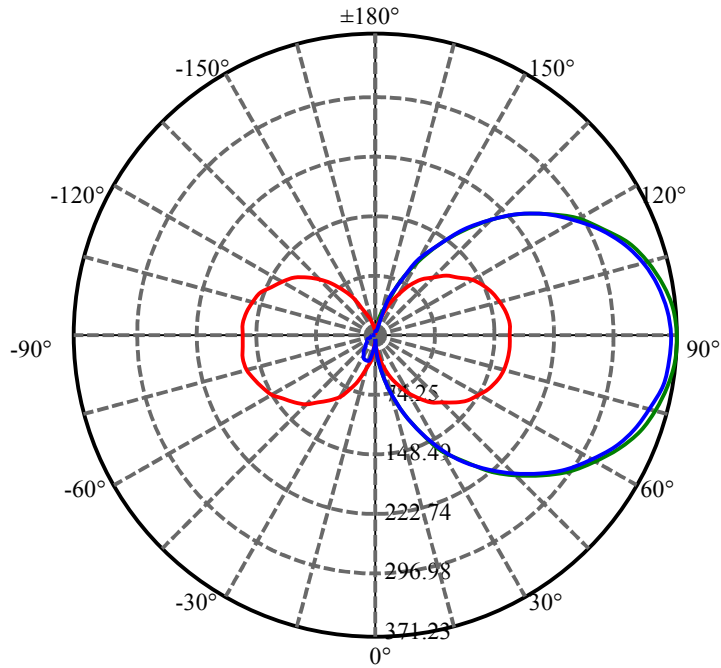
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6.557	0.000	0	0.00%	0.00%
5.0	17.111	0.283	0.283	0.02%	0.02%
10.0	34.622	1.851	2.134	0.12%	0.14%
15.0	50.602	5.055	7.189	0.33%	0.47%
20.0	65.033	9.530	16.719	0.62%	1.09%
25.0	77.200	14.918	31.637	0.97%	2.06%
30.0	88.649	20.988	52.625	1.37%	3.43%
35.0	99.161	27.656	80.281	1.80%	5.24%
40.0	109.128	34.751	115.033	2.27%	7.50%
45.0	118.334	42.116	157.149	2.75%	10.25%
50.0	127.144	49.602	206.752	3.24%	13.49%
55.0	135.213	57.045	263.797	3.72%	17.21%
60.0	142.604	64.217	328.014	4.19%	21.40%
65.0	149.236	70.947	398.961	4.63%	26.02%
70.0	155.003	77.035	475.996	5.02%	31.05%
75.0	159.419	82.185	558.181	5.36%	36.41%
80.0	162.125	86.036	644.217	5.61%	42.02%
85.0	163.065	88.362	732.579	5.76%	47.79%
90.0	162.758	89.213	821.792	5.82%	53.60%
95.0	161.725	88.846	910.638	5.80%	59.40%
100.0	158.873	87.114	997.752	5.68%	65.08%
105.0	154.030	83.724	1081.476	5.46%	70.54%
110.0	147.047	78.697	1160.173	5.13%	75.68%
115.0	138.162	72.217	1232.389	4.71%	80.39%
120.0	128.222	64.758	1297.148	4.22%	84.61%
125.0	116.830	56.643	1353.791	3.69%	88.31%
130.0	104.539	48.133	1401.924	3.14%	91.45%
135.0	91.426	39.598	1441.522	2.58%	94.03%
140.0	77.837	31.340	1472.862	2.04%	96.07%
145.0	62.990	23.496	1496.358	1.53%	97.61%
150.0	48.323	16.392	1512.749	1.07%	98.67%
155.0	34.147	10.437	1523.186	0.68%	99.36%
160.0	21.879	5.876	1529.062	0.38%	99.74%
165.0	11.377	2.741	1531.803	0.18%	99.92%
170.0	4.869	0.964	1532.766	0.06%	99.98%
175.0	2.448	0.262	1533.028	0.02%	100.00%
180.0	0.554	0.036	1533.064	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	52.63	3.43%	3.43%
0-40	115.03	7.50%	7.50%
0-60	328.01	21.40%	21.40%
0-90	821.79	53.60%	53.60%
0-120	1297.15	84.61%	84.61%
0-180	1533.06	100.00%	100.00%
60-90	493.78	32.21%	32.21%
90-120	475.36	31.01%	31.01%
90-130	580.13	37.84%	37.84%
90-150	690.96	45.07%	45.07%
90-180	711.24	46.39%	46.39%
0-114.59	1226.45	80.00%	80.00%

ZONAL LUMEN SUMMARY

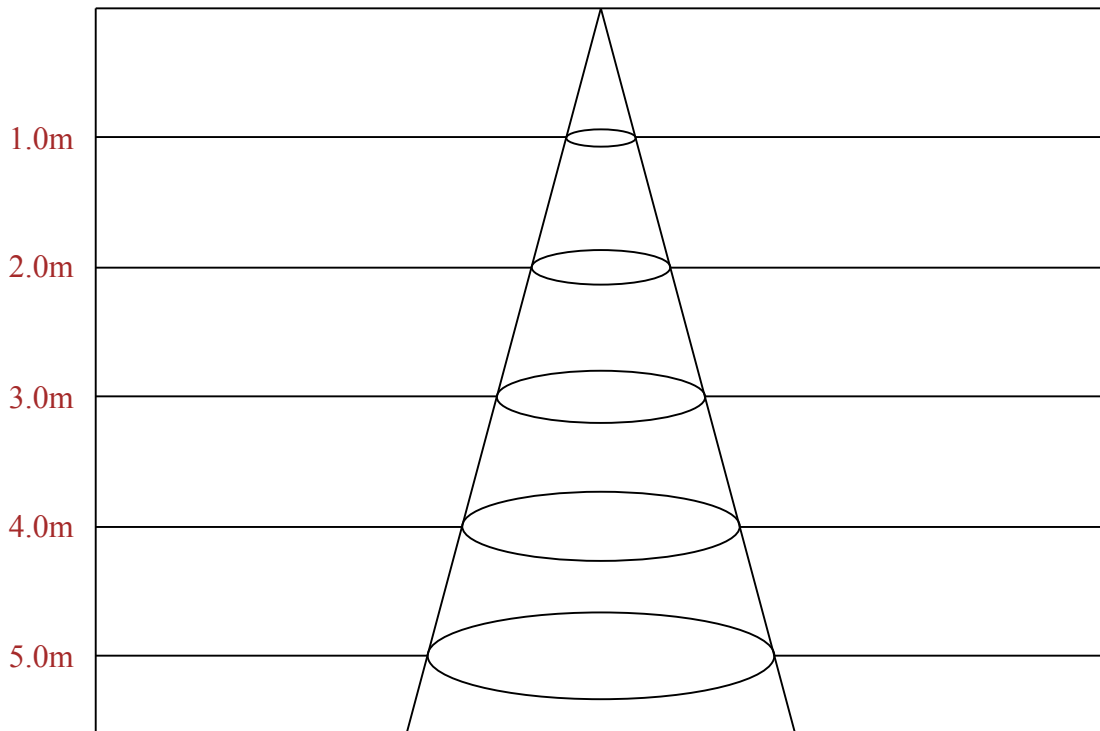
0-10	2.13
10-20	14.59
20-30	35.91
30-40	62.41
40-50	91.72
50-60	121.26
60-70	147.98
70-80	168.22
80-90	177.57
90-100	175.96
100-110	162.42
110-120	136.98
120-130	104.78
130-140	70.94
140-150	39.89
150-160	16.31
160-170	3.70
170-180	0.26



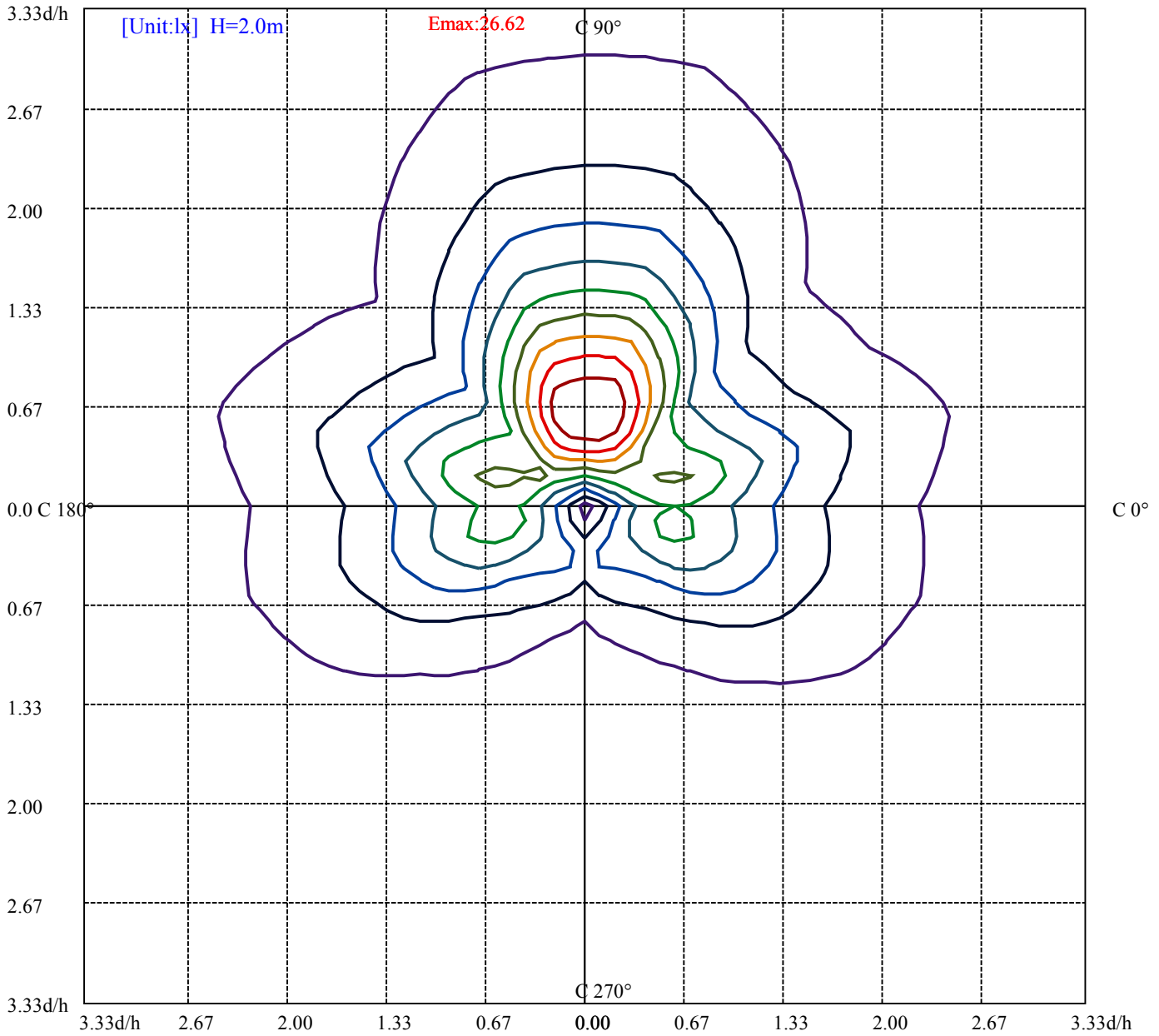
C75(Max): ——
 C0/C180: ——
 C90/C270: ——

Field angle(10%Imax):C0/180Left:247.6 Right:79.7
 :C90/270Left:82.8 Right:72.2

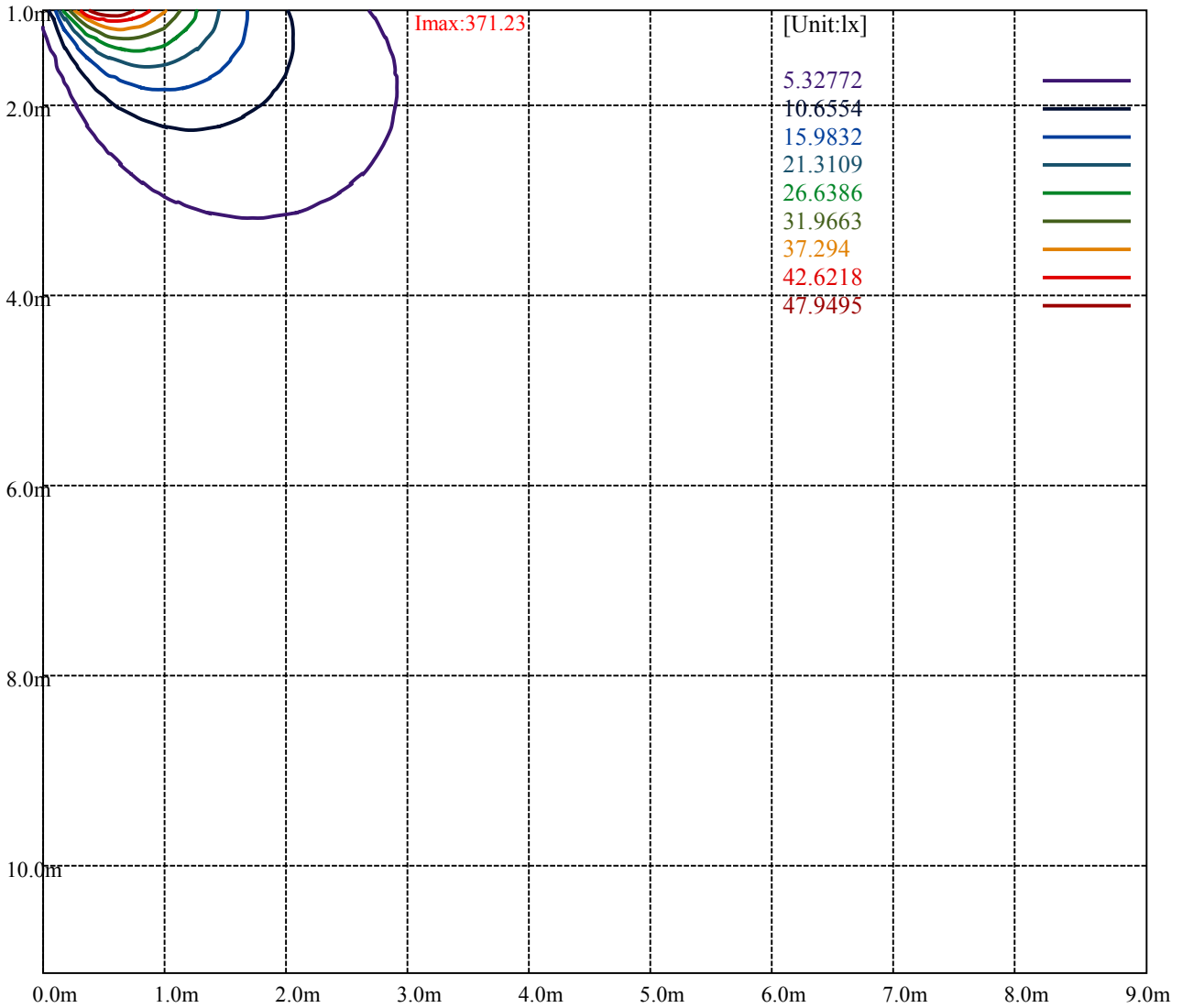
Beam Angle(50%Imax):C0/180Left:224.8 Right:56.7
 :C90/270Left:56.6 Right:48.0



Max , Ave Beam angle of C75 plane 316.99



- (10%Emax) 2.662025
- (20%Emax) 5.324075
- (30%Emax) 7.9861
- (40%Emax) 10.64812
- (50%Emax) 13.31017
- (60%Emax) 15.9722
- (70%Emax) 18.63423
- (80%Emax) 21.29627
- (90%Emax) 23.9583



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Luminance Limiting Curve(no luminous side)

Luminance Table

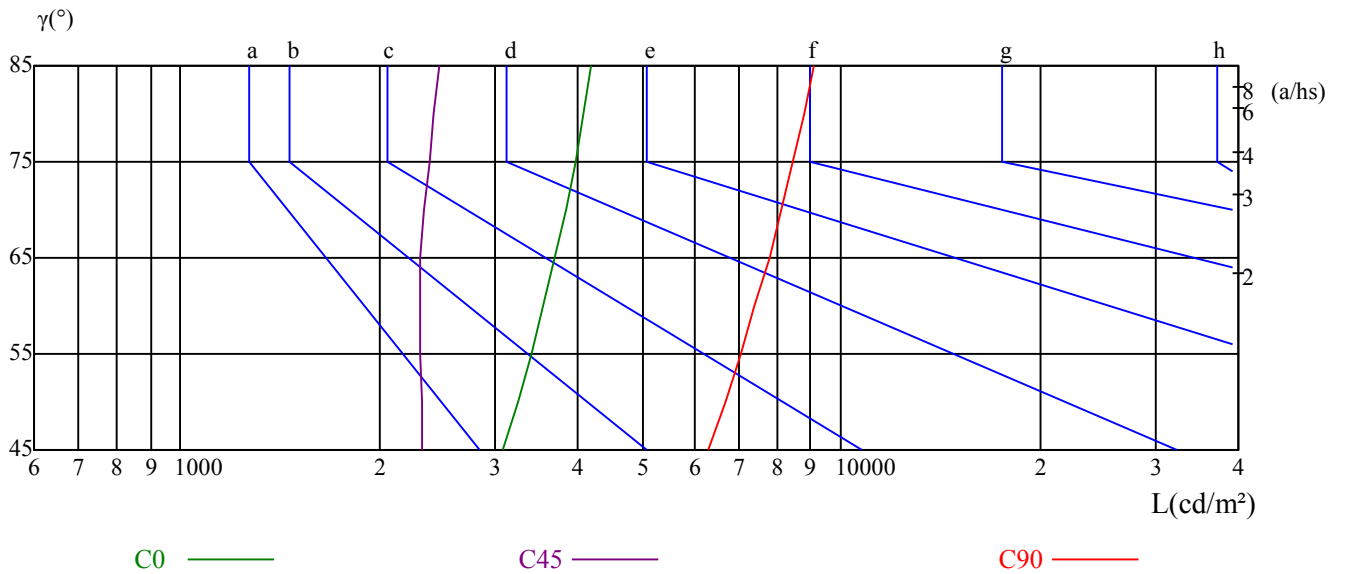
γ	45	50	55	60	65	70	75	80	85
C0	3074	3242	3398	3541	3696	3837	3970	4078	4178
C45	2329	2322	2307	2303	2300	2329	2379	2425	2458
C90	6300	6683	7046	7380	7789	8131	8468	8788	9084

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
23287	25041	15034	40490	43954	25642	121789	134749	76427

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	7.28	12.48	25.60	39.34	54.16	67.99	82.01	94.94	107.07
15.0	6.47	15.27	32.78	49.49	67.37	85.60	102.75	119.28	135.81
30.0	6.20	18.95	41.86	61.08	73.56	84.79	94.67	104.19	112.81
45.0	5.75	22.19	49.13	66.38	77.25	87.31	95.93	103.83	110.66
60.0	5.48	23.53	50.66	70.51	92.51	113.44	135.90	154.85	173.71
75.0	5.30	25.24	50.84	72.84	101.95	132.57	162.84	191.95	219.70
90.0	5.03	25.06	50.21	73.29	103.11	132.39	163.74	190.42	217.18
105.0	5.12	25.51	51.47	72.22	99.88	128.89	157.63	184.76	208.83
120.0	5.03	25.15	51.92	69.70	88.20	106.89	123.59	140.30	155.03
135.0	16.08	22.19	49.22	63.95	73.83	82.19	89.01	95.21	100.24
150.0	5.30	19.31	39.16	59.01	84.34	85.78	97.10	108.86	118.65
165.0	5.66	16.35	31.53	48.23	66.56	85.33	103.74	119.73	136.71
180.0	7.28	18.50	30.99	44.55	60.54	73.38	86.14	97.90	108.86
195.0	6.47	16.26	29.28	44.64	60.54	75.63	90.09	102.84	116.41
210.0	6.20	15.63	29.19	44.37	55.51	66.11	75.99	85.51	94.13
225.0	5.75	14.10	27.31	38.98	45.54	50.03	53.44	56.86	60.27
240.0	5.48	12.22	25.51	37.63	44.28	45.72	45.36	44.73	44.01
255.0	5.30	10.69	20.93	34.67	41.41	41.68	38.26	33.77	28.65
270.0	5.03	9.61	18.32	30.63	33.86	31.53	27.57	23.53	19.22
285.0	5.12	9.79	20.03	33.95	41.23	41.95	39.07	34.94	33.68
300.0	5.03	11.14	23.53	36.56	38.53	44.82	44.37	44.01	43.83
315.0	16.08	13.11	26.23	38.35	45.09	50.03	54.34	59.01	63.41
330.0	5.30	13.92	27.75	42.40	54.43	66.56	77.16	88.02	97.19
345.0	5.66	14.46	27.48	41.68	57.13	72.22	86.86	100.42	112.99
360.0	7.28	12.48	25.60	39.34	54.16	67.99	82.01	94.94	107.07
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	118.20	128.80	138.32	146.50	154.22	160.24	164.64	166.71	166.98
15.0	151.08	166.44	180.90	193.92	205.60	215.30	223.38	228.41	231.29
30.0	120.81	127.72	133.92	138.59	143.26	147.22	150.81	154.04	155.84
45.0	115.96	120.81	124.22	127.28	129.43	132.39	135.54	137.42	137.51
60.0	190.69	206.23	220.06	231.74	242.42	253.29	261.11	266.23	268.56
75.0	244.31	268.56	290.93	311.05	330.36	346.26	358.29	366.02	370.60
90.0	242.24	265.51	286.80	305.30	324.97	339.52	351.20	359.19	363.05
105.0	234.34	255.81	276.74	295.78	314.10	329.46	340.60	349.22	353.17
120.0	168.32	180.27	189.97	200.21	208.38	217.63	225.00	229.85	232.36
135.0	104.01	107.42	109.67	111.20	112.19	113.71	116.41	117.66	117.93
150.0	127.99	136.53	143.89	150.36	156.20	161.23	165.00	168.23	169.67
165.0	153.41	168.95	182.60	196.08	208.11	217.72	225.27	229.49	232.10
180.0	119.28	129.07	138.05	146.23	153.32	158.98	162.84	164.91	164.73
195.0	127.99	139.58	150.27	160.69	169.31	176.14	180.81	183.41	183.86
210.0	102.48	110.39	117.84	124.22	130.87	135.81	138.86	140.21	139.58
225.0	63.32	66.20	69.07	71.68	74.01	76.08	77.16	76.98	75.90
240.0	43.38	43.02	42.75	42.48	42.40	42.22	42.22	42.04	41.41
255.0	25.24	22.99	21.74	21.02	20.21	19.85	19.94	19.94	19.31
270.0	15.63	12.84	10.60	10.15	5.75	4.40	4.31	4.13	3.95
285.0	27.57	25.87	25.06	24.61	24.16	23.89	23.71	23.35	22.90
300.0	43.47	43.02	42.84	43.02	43.02	43.11	43.11	42.75	42.13
315.0	67.19	71.50	74.91	78.32	81.47	84.16	85.69	85.96	84.97
330.0	106.71	115.96	124.49	132.22	138.68	144.61	147.93	149.46	149.37
345.0	126.38	137.96	149.46	159.88	169.22	176.86	182.24	185.39	186.38
360.0	118.20	128.80	138.32	146.50	154.22	160.24	164.64	166.71	166.98

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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	166.08	165.45	163.29	158.98	153.14	145.42	136.08	125.39	113.89
15.0	232.27	231.20	227.51	221.68	212.16	199.94	185.66	170.57	152.42
30.0	156.20	156.29	154.58	151.17	145.42	137.96	129.88	120.00	109.31
45.0	136.71	135.99	134.01	129.52	123.77	116.41	108.05	98.62	89.10
60.0	268.29	265.51	260.57	252.21	239.10	223.56	205.96	187.54	166.62
75.0	371.23	367.90	360.54	348.77	331.89	310.33	286.26	259.31	230.21
90.0	363.32	360.36	353.53	342.57	326.32	305.66	282.48	257.96	229.94
105.0	353.98	351.20	344.64	334.22	318.86	299.19	276.74	251.68	224.46
120.0	232.45	231.11	227.07	220.51	209.82	197.07	183.14	165.81	148.83
135.0	117.13	116.86	115.33	112.45	107.87	102.04	95.30	87.66	79.40
150.0	169.94	169.76	166.98	162.30	156.29	147.84	138.14	127.36	116.05
165.0	232.54	230.75	225.81	218.62	209.19	196.17	182.33	166.53	148.74
180.0	163.83	163.38	160.69	156.11	150.09	141.92	132.22	121.71	108.95
195.0	183.41	181.44	177.48	171.47	163.38	153.50	141.65	128.53	114.25
210.0	138.14	136.98	134.46	130.24	124.04	116.23	107.16	97.63	86.59
225.0	74.28	74.01	72.75	70.33	67.10	63.05	61.62	52.72	46.89
240.0	40.60	40.51	40.24	38.44	36.56	34.31	31.80	28.83	25.60
255.0	19.04	18.77	18.14	17.16	16.08	14.55	12.93	11.41	9.61
270.0	3.86	3.68	3.68	3.50	2.96	2.60	2.25	1.80	1.35
285.0	22.63	22.54	22.01	21.20	19.94	18.41	16.80	14.91	12.93
300.0	41.41	41.41	40.87	39.70	38.08	36.11	33.59	30.81	27.75
315.0	83.80	83.89	82.72	80.21	76.44	72.04	66.56	60.72	53.98
330.0	148.56	147.48	144.88	140.21	133.74	125.30	115.78	105.45	94.76
345.0	186.47	184.94	181.17	175.15	166.89	156.29	144.97	130.96	117.31
360.0	166.08	165.45	163.29	158.98	153.14	145.42	136.08	125.39	113.89
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	101.59	88.20	74.55	59.46	44.01	28.83	15.99	6.38	2.16
15.0	134.82	115.15	94.13	72.84	52.28	33.59	18.77	8.08	3.05
30.0	97.72	84.61	70.51	56.59	41.95	28.38	16.71	8.26	3.86
45.0	77.60	67.01	54.88	42.66	31.26	20.66	12.75	7.28	4.31
60.0	144.16	121.08	98.80	73.65	51.83	31.62	16.08	7.19	4.31
75.0	200.75	167.07	135.72	104.37	73.56	45.18	22.54	7.90	4.13
90.0	200.30	168.95	136.62	105.63	75.72	46.89	22.99	7.63	3.86
105.0	195.36	166.17	134.64	103.92	72.84	45.72	21.38	7.72	3.86
120.0	129.52	109.04	88.47	66.83	47.25	28.83	15.45	7.28	3.86
135.0	70.96	60.45	50.12	39.07	28.47	19.22	12.13	6.74	3.95
150.0	102.84	88.83	73.20	57.75	40.78	27.13	15.45	7.19	3.68
165.0	129.79	111.20	89.37	69.52	49.31	31.35	16.62	7.37	3.05
180.0	96.65	82.90	67.81	52.19	37.28	22.37	11.41	4.13	1.62
195.0	99.34	83.17	67.10	49.94	34.13	30.81	9.97	3.59	1.62
210.0	75.36	71.77	50.30	37.54	25.60	15.09	7.54	2.60	1.26
225.0	40.51	33.68	26.68	19.85	12.48	7.46	4.13	2.25	1.17
240.0	22.10	18.59	14.73	10.42	6.74	4.31	2.60	1.62	0.99
255.0	7.90	6.38	4.94	3.68	2.60	1.98	1.35	0.90	0.63
270.0	1.08	0.90	0.81	0.63	0.72	0.63	0.63	0.54	0.63
285.0	10.87	8.89	7.01	5.12	3.68	2.51	1.71	1.17	0.90
300.0	24.07	20.48	16.17	11.50	7.54	4.85	2.96	1.98	1.17
315.0	46.80	39.25	31.89	23.35	15.81	9.07	4.49	2.34	1.35
330.0	82.19	68.89	55.06	41.32	27.93	16.53	8.35	2.96	1.44
345.0	101.95	85.42	68.26	51.92	35.75	22.10	11.05	3.77	1.89
360.0	101.59	88.20	74.55	59.46	44.01	28.83	15.99	6.38	2.16

Intensity data(cd)

C/γ(°)	180.0
0.0	1.35
15.0	0.72
30.0	0.90
45.0	0.90
60.0	0.99
75.0	1.26
90.0	1.26
105.0	1.26
120.0	1.17
135.0	1.17
150.0	1.17
165.0	1.17
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	1.35