
乐达凯

Client:

LumCAT: BLKW0718LAJUDBK-3000K

Luminaire: LED 灯具

Report No:

Ballast type:

Test No: LCZP24040387

Voltage(V): 119.960

LampCAT:

Current(A): 0.173

Lamp flux(lm): 1340.7

Power (W): 20.560

Number of Lamps: 1

PF: 0.992

Length(mm): 125

Width(mm): 125

Phm Type: C

Height(mm): 310

Photometric Results

Lumens(lm): 1340.66, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 65.21

Central intensity(cd): 6.737, Maximum intensity(cd): 328.023

Angle of maximum intensity: C=75.0 γ =90.0

Beam Angle(50%Imax): [C0/180]Total=280.9

[C90/270]Total=104.5

Field angle(10%Imax): [C0/180]Total=327.6

[C90/270]Total=155.0

Maximum s/h(1/2): C0_180=6.75 C90_270=10.61

Maximum s/h(1/4): C0_180=6.24 C90_270=10.06

Up flux rate of lamp(%): 46.57%

Down flux rate of lamp(%): 53.43%

Up flux rate of LUM(%): 46.57%

Down flux rate of LUM(%): 53.43%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 21.282%

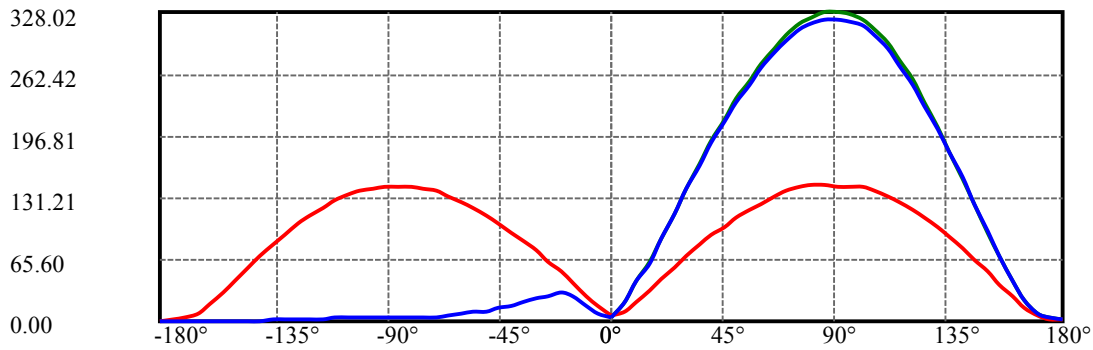
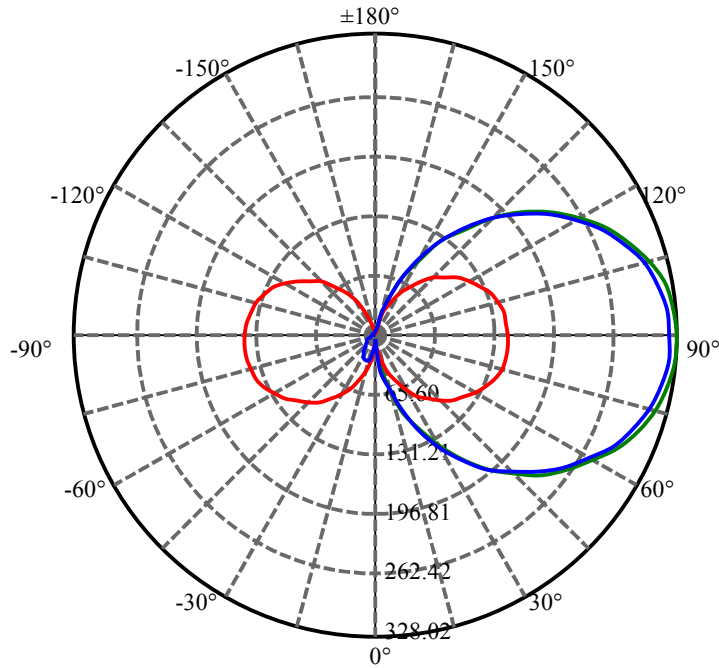
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5.711	0.000	0	0.00%	0.00%
5.0	14.461	0.241	0.241	0.02%	0.02%
10.0	29.940	1.588	1.83	0.12%	0.14%
15.0	44.109	4.393	6.222	0.33%	0.46%
20.0	56.291	8.274	14.496	0.62%	1.08%
25.0	67.028	12.934	27.43	0.96%	2.05%
30.0	76.897	18.214	45.644	1.36%	3.40%
35.0	86.149	24.010	69.654	1.79%	5.20%
40.0	94.962	30.217	99.871	2.25%	7.45%
45.0	102.945	36.644	136.515	2.73%	10.18%
50.0	110.673	43.165	179.68	3.22%	13.40%
55.0	117.792	49.676	229.356	3.71%	17.11%
60.0	124.337	55.967	285.323	4.17%	21.28%
65.0	130.097	61.853	347.176	4.61%	25.90%
70.0	135.187	67.172	414.348	5.01%	30.91%
75.0	139.172	71.713	486.061	5.35%	36.26%
80.0	141.564	75.117	561.178	5.60%	41.86%
85.0	142.488	77.184	638.362	5.76%	47.62%
90.0	142.376	77.998	716.36	5.82%	53.43%
95.0	141.474	77.720	794.081	5.80%	59.23%
100.0	139.056	76.227	870.307	5.69%	64.92%
105.0	134.880	73.298	943.605	5.47%	70.38%
110.0	128.836	68.931	1012.536	5.14%	75.53%
115.0	121.111	63.288	1075.824	4.72%	80.25%
120.0	112.548	56.803	1132.627	4.24%	84.48%
125.0	102.612	49.734	1182.361	3.71%	88.19%
130.0	91.837	42.280	1224.641	3.15%	91.35%
135.0	80.468	34.817	1259.458	2.60%	93.94%
140.0	68.746	27.628	1287.086	2.06%	96.00%
145.0	55.718	20.766	1307.852	1.55%	97.55%
150.0	42.941	14.528	1322.38	1.08%	98.64%
155.0	30.647	9.313	1331.693	0.69%	99.33%
160.0	19.805	5.292	1336.984	0.39%	99.73%
165.0	10.509	2.498	1339.483	0.19%	99.91%
170.0	4.588	0.896	1340.378	0.07%	99.98%
175.0	2.309	0.247	1340.625	0.02%	100.00%
180.0	0.621	0.035	1340.66	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	45.64	3.40%	3.40%
0-40	99.87	7.45%	7.45%
0-60	285.32	21.28%	21.28%
0-90	716.36	53.43%	53.43%
0-120	1132.63	84.48%	84.48%
0-180	1340.66	100.00%	100.00%
60-90	431.04	32.15%	32.15%
90-120	416.27	31.05%	31.05%
90-130	508.28	37.91%	37.91%
90-150	606.02	45.20%	45.20%
90-180	624.26	46.56%	46.56%
0-114.74	1072.53	80.00%	80.00%

ZONAL LUMEN SUMMARY

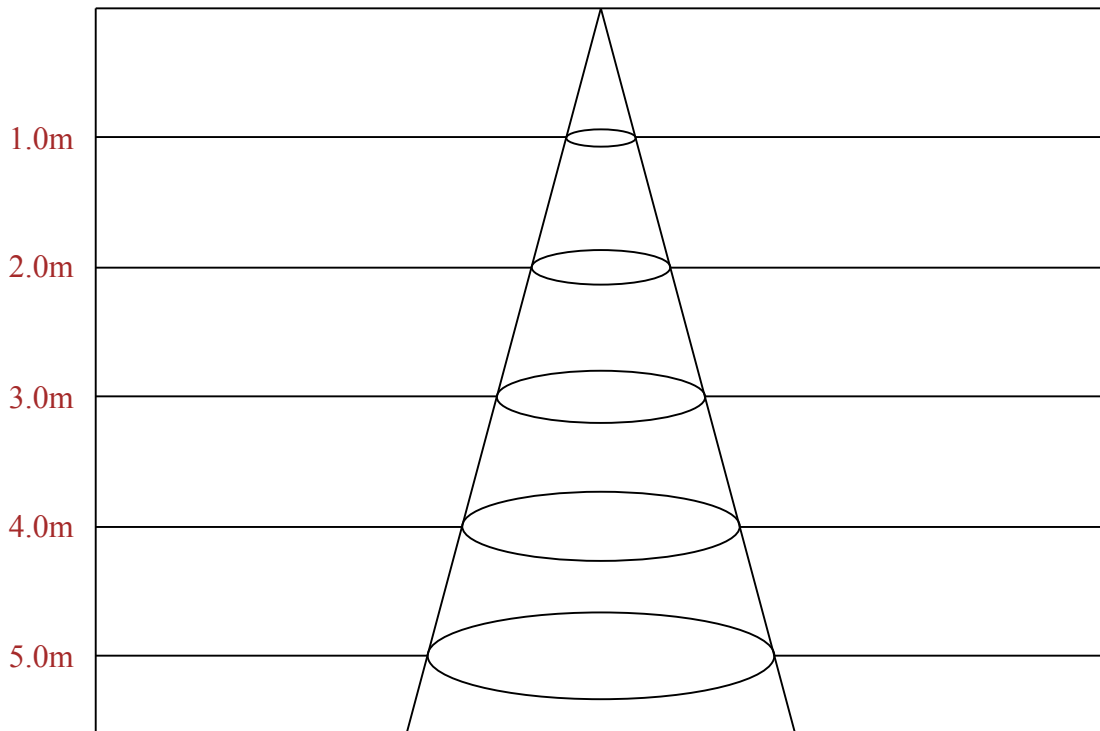
0-10	1.83
10-20	12.67
20-30	31.15
30-40	54.23
40-50	79.81
50-60	105.64
60-70	129.02
70-80	146.83
80-90	155.18
90-100	153.95
100-110	142.23
110-120	120.09
120-130	92.01
130-140	62.44
140-150	35.29
150-160	14.60
160-170	3.39
170-180	0.25



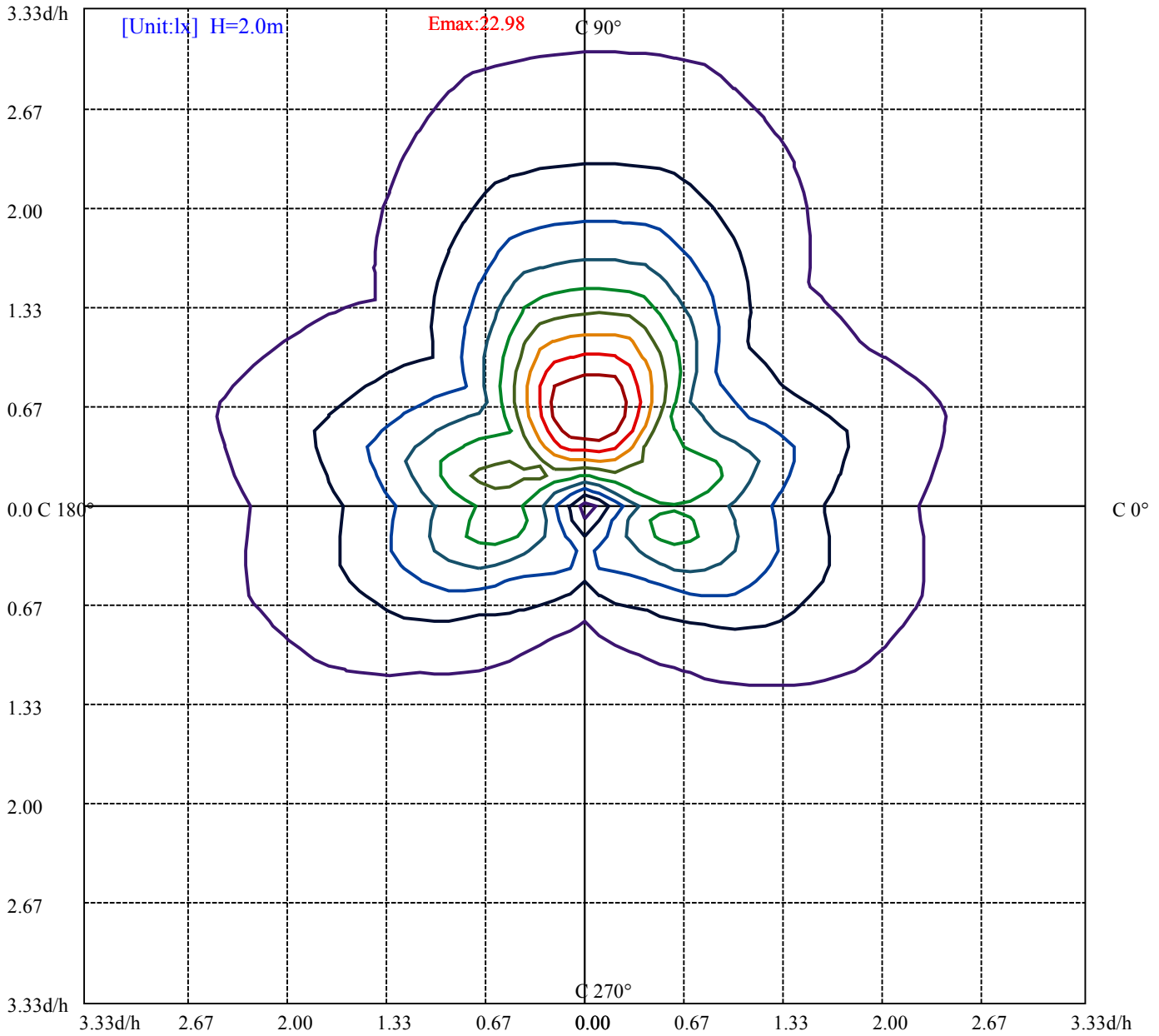
C75(Max): —
 C0/C180: —
 C90/C270: —

Field angle(10%Imax):C0/180Left:247.1 Right:80.5
 :C90/270Left:82.3 Right:72.7

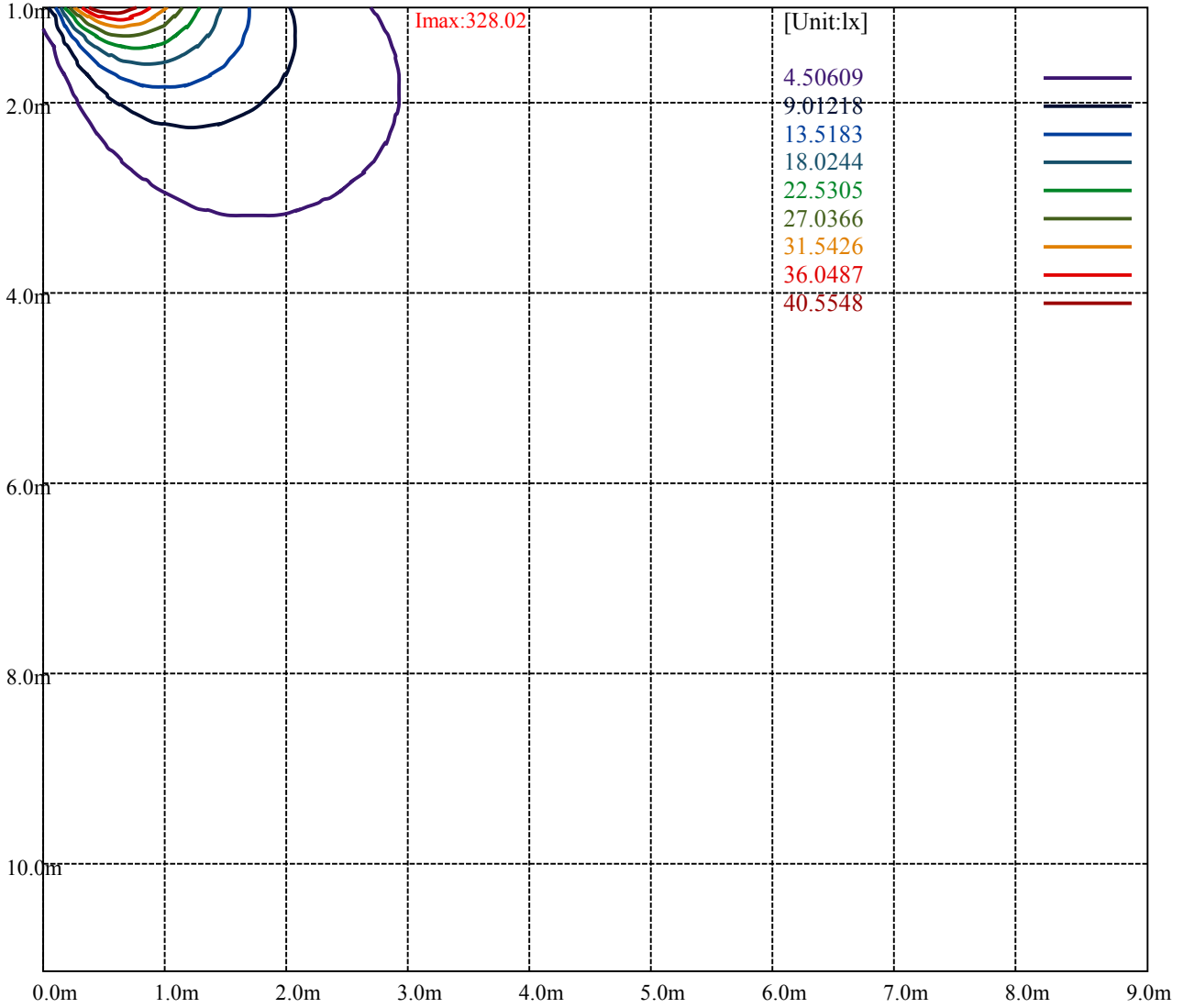
Beam Angle(50%Imax):C0/180Left:223.8 Right:57.1
 :C90/270Left:56.0 Right:48.5



Max , Ave Beam angle of C75 plane 314.74



(10%E _{max}) 2.29794	—
(20%E _{max}) 4.595875	—
(30%E _{max}) 6.893825	—
(40%E _{max}) 9.19175	—
(50%E _{max}) 11.4897	—
(60%E _{max}) 13.78763	—
(70%E _{max}) 16.08558	—
(80%E _{max}) 18.38353	—
(90%E _{max}) 20.68145	—



Luminance Table

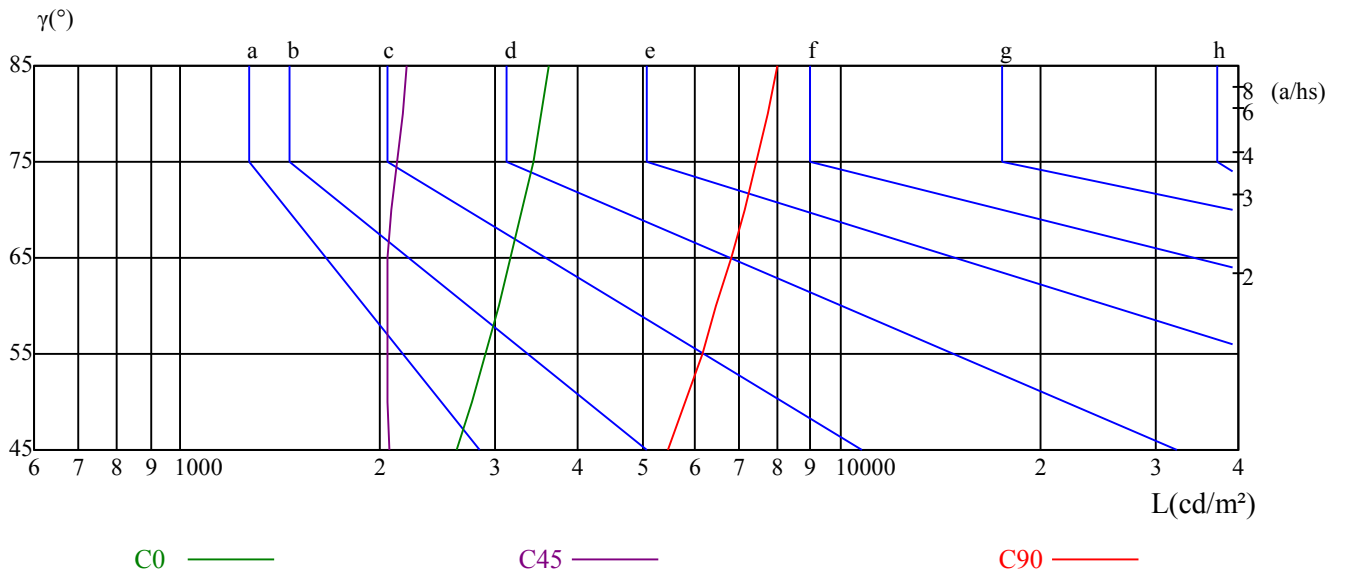
γ	45	50	55	60	65	70	75	80	85
C0	2612	2763	2902	3029	3169	3298	3424	3525	3616
C45	2067	2058	2057	2052	2054	2081	2133	2174	2207
C90	5487	5831	6161	6485	6829	7137	7444	7728	8010

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
20063	21988	13255	34970	38702	22621	105201	119018	67457

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	0.53
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	0.39	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	0.39	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	6.74	9.52	20.66	32.51	45.27	57.93	69.25	80.75	90.81
15.0	6.11	12.40	27.40	42.13	56.77	72.48	86.95	100.78	114.61
30.0	5.66	14.55	34.40	51.83	62.78	72.39	81.02	88.65	96.11
45.0	5.12	16.98	41.05	56.59	66.65	75.99	84.16	91.26	97.72
60.0	4.85	19.13	42.40	60.45	79.22	99.16	118.29	136.44	152.78
75.0	4.49	19.40	42.48	62.60	88.02	113.80	140.57	166.44	190.87
90.0	4.31	20.48	42.04	61.80	87.66	114.88	141.20	165.00	189.79
105.0	4.22	19.94	43.47	62.34	84.88	111.47	135.36	159.25	181.71
120.0	4.22	18.41	43.92	59.64	75.45	91.62	106.89	121.17	134.10
135.0	13.20	18.59	40.96	55.69	64.31	71.50	77.60	82.99	87.57
150.0	4.58	15.36	33.59	50.48	72.31	74.73	85.51	95.57	104.82
165.0	5.03	13.29	26.59	42.04	57.13	73.65	89.82	104.91	120.27
180.0	6.74	16.44	27.40	40.42	52.63	64.04	75.00	84.97	94.40
195.0	6.11	15.54	27.13	40.42	54.25	66.47	78.77	90.18	100.96
210.0	5.66	14.55	26.41	39.43	49.22	58.47	66.38	74.28	81.20
225.0	5.12	13.65	25.33	34.85	39.97	43.47	46.35	49.13	52.01
240.0	4.85	11.86	23.08	33.77	39.25	40.06	39.70	39.07	38.44
255.0	4.49	9.88	19.76	31.44	36.29	36.20	33.05	28.83	24.52
270.0	4.31	8.71	16.62	27.48	29.55	27.22	23.80	20.30	16.71
285.0	4.22	9.43	18.77	30.90	36.38	36.74	34.13	30.63	29.73
300.0	4.22	10.60	21.56	32.25	33.68	39.34	39.07	38.89	38.71
315.0	13.20	11.86	23.98	33.95	39.97	44.28	48.23	52.28	56.05
330.0	4.58	13.11	24.61	38.08	48.14	58.74	68.44	77.42	85.96
345.0	5.03	13.38	24.97	37.54	51.20	64.04	75.99	88.38	99.25
360.0	6.74	9.52	20.66	32.51	45.27	57.93	69.25	80.75	90.81
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	100.42	109.76	118.11	125.30	132.22	137.69	142.01	144.07	144.52
15.0	128.26	141.47	153.05	164.19	174.34	182.87	189.43	194.64	197.33
30.0	102.22	108.05	112.99	117.31	120.99	124.13	127.10	130.24	131.86
45.0	102.93	107.07	110.75	113.44	115.60	118.29	121.53	123.23	123.50
60.0	168.32	182.42	194.91	206.14	215.48	226.08	232.63	237.66	239.91
75.0	214.04	235.69	254.91	272.96	290.12	304.58	315.81	322.45	327.03
90.0	210.99	231.65	250.78	268.29	284.91	298.02	308.71	315.90	320.12
105.0	202.81	222.57	240.81	256.98	273.32	287.07	297.75	304.85	308.89
120.0	145.06	155.66	164.55	173.08	180.27	188.08	195.27	199.49	201.74
135.0	90.99	93.95	95.93	97.54	98.80	100.06	102.48	103.83	103.74
150.0	113.26	120.27	127.10	132.75	138.23	142.54	146.50	148.92	150.45
165.0	133.56	147.22	159.97	171.92	181.53	189.88	196.71	201.11	203.26
180.0	103.47	111.65	119.73	126.83	132.75	137.69	140.84	142.19	142.01
195.0	111.29	121.26	130.15	138.77	145.96	151.44	155.57	157.01	157.45
210.0	88.65	94.76	101.05	106.80	112.19	116.32	118.83	119.82	119.10
225.0	54.34	56.50	58.83	60.81	62.78	64.22	65.03	64.76	63.77
240.0	37.72	37.63	37.28	37.28	37.01	36.92	37.01	36.74	36.20
255.0	21.47	19.58	18.59	17.87	17.16	16.98	16.89	16.80	16.35
270.0	13.56	11.14	9.34	9.07	5.48	4.40	4.31	4.13	4.04
285.0	24.52	23.35	22.63	22.28	21.92	21.83	21.56	21.29	20.84
300.0	38.44	37.99	37.90	38.17	38.17	38.17	38.35	37.99	37.28
315.0	59.73	63.41	66.92	70.06	72.93	75.54	76.89	77.25	76.44
330.0	94.31	102.31	109.85	116.23	122.42	127.28	130.33	131.68	131.50
345.0	110.30	120.81	130.87	140.03	147.75	154.40	158.62	161.50	162.39
360.0	100.42	109.76	118.11	125.30	132.22	137.69	142.01	144.07	144.52

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	143.62	143.26	141.65	138.14	132.93	126.02	118.11	109.49	99.07
15.0	198.50	197.60	195.27	190.15	182.60	172.54	160.69	147.22	132.93
30.0	132.22	132.30	131.14	128.35	123.95	117.66	110.48	102.84	93.59
45.0	122.96	122.16	120.36	116.77	111.20	104.91	97.45	89.10	80.12
60.0	239.91	238.02	233.44	225.99	215.21	201.38	186.65	169.04	151.26
75.0	328.02	325.51	319.49	309.25	294.43	276.47	255.72	232.36	206.68
90.0	320.66	318.23	312.75	302.87	289.58	271.62	251.23	228.86	204.43
105.0	310.42	308.08	302.96	293.98	280.51	263.26	245.12	223.29	199.67
120.0	202.10	201.11	197.87	192.75	183.95	172.99	160.42	146.05	130.78
135.0	103.11	102.57	101.32	98.71	94.76	89.64	84.07	77.51	70.33
150.0	150.72	150.45	148.02	144.07	138.59	131.41	123.05	113.44	102.93
165.0	203.98	202.36	198.23	191.77	183.41	172.63	160.60	147.04	131.68
180.0	141.65	140.66	138.23	134.10	128.35	121.17	112.99	103.29	92.60
195.0	156.92	155.21	151.44	146.68	139.49	130.42	120.09	109.40	96.47
210.0	117.84	116.77	114.25	110.48	105.36	98.08	90.63	82.10	73.11
225.0	62.51	62.07	60.99	59.01	56.14	52.37	51.56	43.92	38.80
240.0	35.66	35.48	35.30	33.50	31.80	29.82	27.40	24.79	22.01
255.0	16.17	15.90	15.36	14.46	13.47	12.31	10.87	9.25	7.81
270.0	3.95	3.86	3.77	3.59	3.23	2.87	2.43	1.89	1.53
285.0	20.66	20.66	20.03	19.31	18.23	16.89	15.36	13.65	11.68
300.0	36.83	36.92	36.29	35.39	33.86	31.98	29.82	27.22	24.43
315.0	75.54	75.54	74.55	72.22	68.62	64.58	59.82	54.43	48.23
330.0	130.87	129.88	127.28	123.41	117.39	109.94	101.32	92.69	82.63
345.0	162.22	160.78	157.36	152.16	144.97	135.72	125.30	113.80	101.32
360.0	143.62	143.26	141.65	138.14	132.93	126.02	118.11	109.49	99.07
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	89.10	77.60	64.94	52.90	39.61	26.50	15.27	6.47	2.07
15.0	117.13	100.42	83.53	65.39	47.60	31.35	17.51	8.08	3.05
30.0	84.34	73.29	61.62	49.40	37.63	25.87	15.63	7.81	3.77
45.0	70.42	60.90	50.03	39.16	28.74	19.22	11.68	6.92	4.04
60.0	131.50	110.57	89.73	68.53	47.96	30.36	15.72	6.83	4.04
75.0	179.55	151.17	123.77	94.40	68.26	43.02	22.46	7.46	3.95
90.0	179.64	152.07	123.95	96.29	70.06	43.11	22.72	7.81	3.68
105.0	174.25	149.37	120.09	94.76	67.19	41.86	20.84	7.81	3.95
120.0	115.15	97.72	79.67	60.90	42.84	26.32	14.73	6.74	3.68
135.0	62.51	53.98	45.09	34.76	25.87	17.69	10.87	6.29	3.77
150.0	91.80	78.77	65.75	51.38	37.10	24.34	14.37	7.01	3.59
165.0	114.97	97.81	79.85	62.51	44.82	28.74	15.54	6.74	2.87
180.0	81.29	69.34	56.32	43.74	30.27	18.41	8.80	3.14	1.35
195.0	84.43	70.33	55.69	41.41	28.47	26.41	8.17	2.87	1.35
210.0	62.96	61.17	41.86	30.90	21.20	12.40	5.84	2.25	1.08
225.0	33.41	27.75	22.19	15.81	10.24	5.93	3.41	2.07	0.99
240.0	18.86	15.81	12.31	8.62	5.57	3.50	2.16	1.44	0.72
255.0	6.38	5.21	4.04	3.05	2.25	1.53	1.17	0.90	0.63
270.0	1.17	0.99	0.81	0.81	0.72	0.72	0.63	0.63	0.63
285.0	9.79	8.26	6.47	4.76	3.32	2.25	1.53	1.17	0.90
300.0	21.38	18.05	14.19	10.06	6.74	4.22	2.60	1.71	1.17
315.0	41.86	35.30	28.20	20.93	13.92	8.17	3.86	2.07	1.26
330.0	71.59	59.91	47.78	35.57	24.70	14.64	7.01	2.60	1.35
345.0	87.75	74.10	59.37	44.55	30.45	18.77	9.70	3.32	1.53
360.0	89.10	77.60	64.94	52.90	39.61	26.50	15.27	6.47	2.07

Intensity data(cd)

C/γ(°)	180.0
0.0	1.17
15.0	0.81
30.0	1.08
45.0	1.17
60.0	1.35
75.0	1.53
90.0	1.35
105.0	1.53
120.0	1.26
135.0	1.26
150.0	1.26
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	1.17