
乐达凯

Client:

LumCAT: AVRW0727LAJUDBK-2700K

Luminaire: LED LAMP

Report No:

Ballast type:

Test No: LCZP25090317

Voltage(V): 120.020

LampCAT:

Current(A): 0.199

Lamp flux(lm): 1274.4

Power (W): 23.660

Number of Lamps: 1

PF: 0.993

Length(mm): 60

Width(mm): 60

Phm Type: C

Height(mm): 390

Photometric Results

Lumens(lm): 1274.41, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 53.86

Central intensity(cd): 24.498, Maximum intensity(cd): 203.180

Angle of maximum intensity: C=90.0 γ =90.0

Beam Angle(50%Imax): [C0/180]Total=290.2

[C90/270]Total=114.8

Field angle(10%Imax): [C0/180]Total=335.2

[C90/270]Total=283.2

Maximum s/h(1/2): C0_180=4.42 C90_270=5.12

Maximum s/h(1/4): C0_180=4.18 C90_270=4.79

Up flux rate of lamp(%): 47.25%

Down flux rate of lamp(%): 52.75%

Up flux rate of LUM(%): 47.25%

Down flux rate of LUM(%): 52.75%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 21.161%

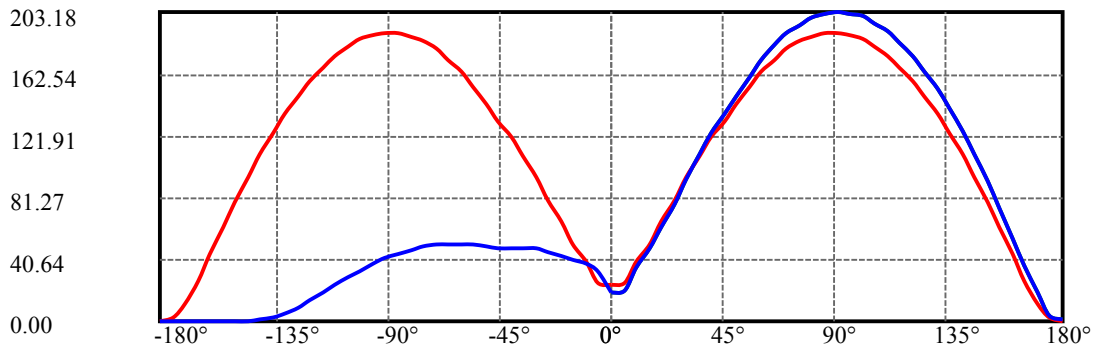
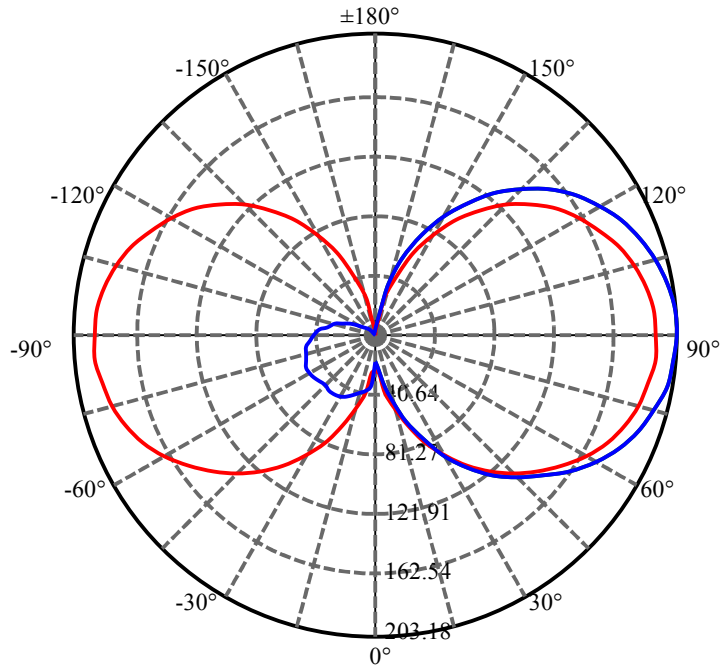
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	19.793	0.000	0	0.00%	0.00%
5.0	27.367	0.564	0.564	0.04%	0.04%
10.0	37.753	2.330	2.893	0.18%	0.23%
15.0	45.004	4.909	7.802	0.39%	0.61%
20.0	53.280	8.100	15.902	0.64%	1.25%
25.0	62.217	12.114	28.016	0.95%	2.20%
30.0	71.760	16.955	44.971	1.33%	3.53%
35.0	81.114	22.512	67.483	1.77%	5.30%
40.0	89.443	28.456	95.939	2.23%	7.53%
45.0	96.535	34.435	130.374	2.70%	10.23%
50.0	103.210	40.362	170.736	3.17%	13.40%
55.0	110.234	46.410	217.146	3.64%	17.04%
60.0	117.030	52.532	269.677	4.12%	21.16%
65.0	122.578	58.249	327.927	4.57%	25.73%
70.0	126.741	63.129	391.056	4.95%	30.69%
75.0	129.731	67.038	458.093	5.26%	35.95%
80.0	131.712	69.955	528.048	5.49%	41.43%
85.0	132.471	71.785	599.833	5.63%	47.07%
90.0	132.205	72.470	672.303	5.69%	52.75%
95.0	130.429	71.911	744.214	5.64%	58.40%
100.0	127.875	70.187	814.402	5.51%	63.90%
105.0	123.868	67.360	881.761	5.29%	69.19%
110.0	118.958	63.471	945.232	4.98%	74.17%
115.0	113.069	58.751	1003.983	4.61%	78.78%
120.0	106.534	53.386	1057.368	4.19%	82.97%
125.0	98.911	47.488	1104.857	3.73%	86.70%
130.0	90.889	41.269	1146.125	3.24%	89.93%
135.0	82.249	34.985	1181.11	2.75%	92.68%
140.0	73.145	28.772	1209.883	2.26%	94.94%
145.0	62.801	22.682	1232.564	1.78%	96.72%
150.0	51.918	16.893	1249.458	1.33%	98.04%
155.0	40.656	11.715	1261.173	0.92%	98.96%
160.0	29.712	7.380	1268.553	0.58%	99.54%
165.0	18.100	3.940	1272.494	0.31%	99.85%
170.0	8.041	1.551	1274.044	0.12%	99.97%
175.0	1.469	0.340	1274.385	0.03%	100.00%
180.0	0.364	0.022	1274.406	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	44.97	3.53%	3.53%
0-40	95.94	7.53%	7.53%
0-60	269.68	21.16%	21.16%
0-90	672.30	52.75%	52.75%
0-120	1057.37	82.97%	82.97%
0-180	1274.41	100.00%	100.00%
60-90	402.63	31.59%	31.59%
90-120	385.07	30.22%	30.22%
90-130	473.82	37.18%	37.18%
90-150	577.15	45.29%	45.29%
90-180	602.08	47.24%	47.24%
0-116.46	1019.53	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	2.89
10-20	13.01
20-30	29.07
30-40	50.97
40-50	74.80
50-60	98.94
60-70	121.38
70-80	136.99
80-90	144.25
90-100	142.10
100-110	130.83
110-120	112.14
120-130	88.76
130-140	63.76
140-150	39.57
150-160	19.10
160-170	5.49
170-180	0.34



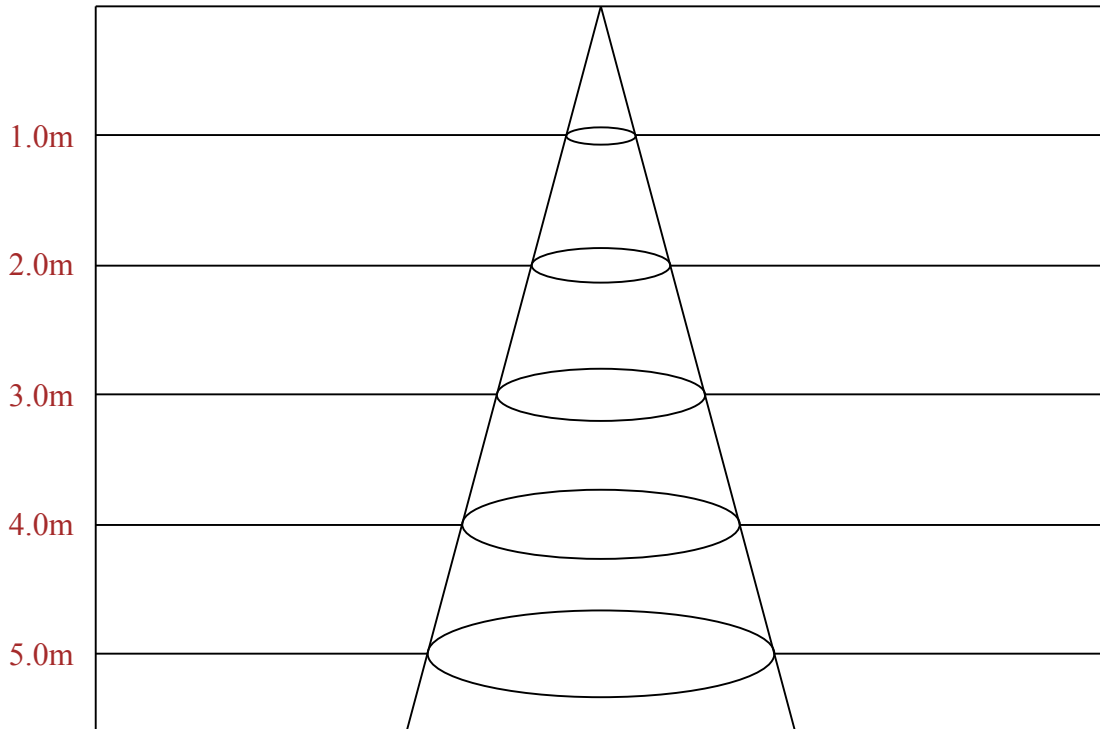
C90(Max): —————

C0/C180: —————

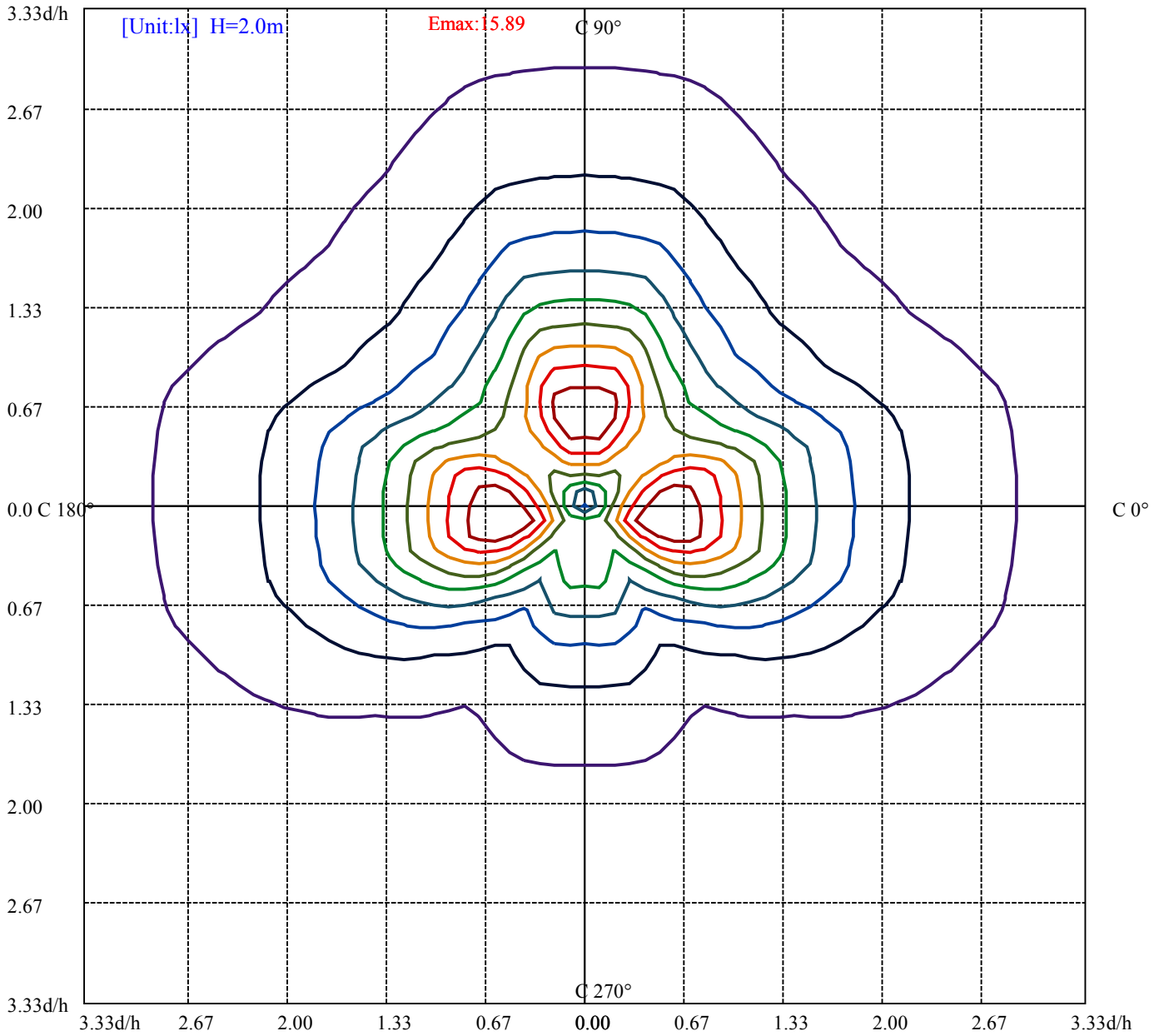
C90/C270: —————

Field angle(10%Imax):C0/180Left:257.6 Right:77.6
:C90/270Left:203.6 Right:79.6

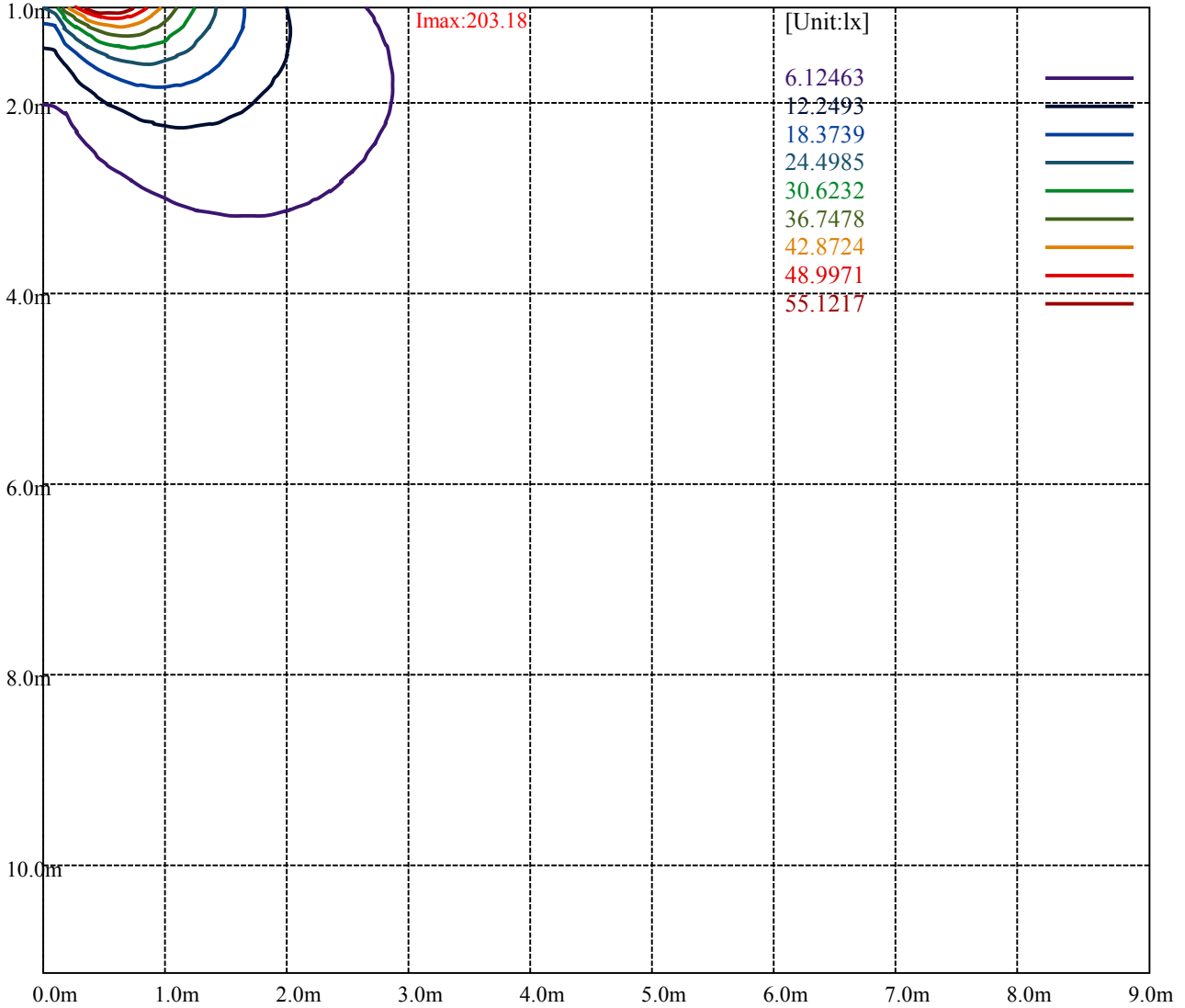
Beam Angle(50%Imax):C0/180Left:235.1 Right:55.1
:C90/270Left:57.5 Right:57.3



Max , Ave Beam angle of C90 plane 288.10



(10%Emax) 1.588642	—
(20%Emax) 3.177275	—
(30%Emax) 4.765925	—
(40%Emax) 6.354575	—
(50%Emax) 7.9432	—
(60%Emax) 9.53185	—
(70%Emax) 11.1205	—
(80%Emax) 12.70915	—
(90%Emax) 14.29778	—



Luminance Table

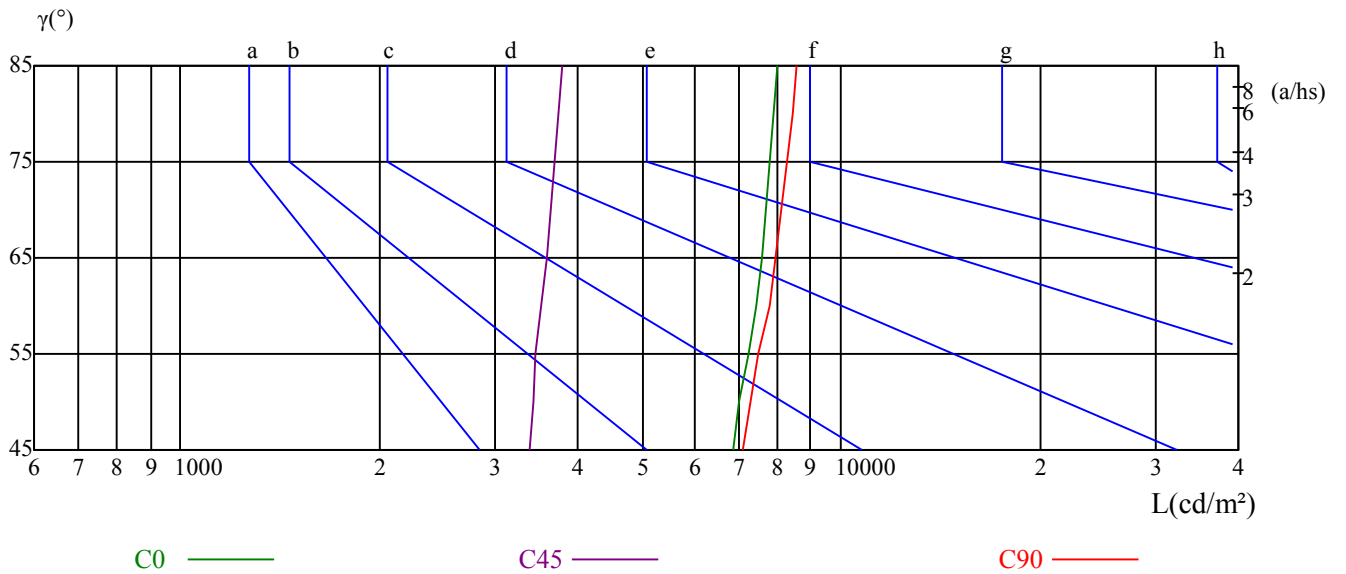
γ	45	50	55	60	65	70	75	80	85
C0	6879	7015	7227	7429	7577	7699	7817	7911	8005
C45	3384	3417	3450	3509	3582	3640	3693	3736	3782
C90	7112	7294	7519	7784	7978	8138	8281	8430	8550

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
113194	76380	60353	197439	130730	103998	602718	392717	314203

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	0.71	0.71	0.71	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	0.40	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	0.34	0.31	0.28	0.23
3	0.61	0.52	0.44	0.56	0.47	0.41	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	0.36	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	0.37	0.29	0.42	0.34	0.27	0.35	0.28	0.23	0.28	0.22	0.18	0.21	0.17	0.14	0.10
6	0.41	0.32	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	0.28	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	0.19	0.14	0.20	0.15	0.11	0.16	0.11	0.08	0.06
9	0.30	0.22	0.16	0.27	0.20	0.15	0.23	0.16	0.12	0.18	0.13	0.10	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	0.11	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	24.50	16.57	33.42	46.08	60.74	75.59	90.89	105.28	119.76
15.0	23.13	17.30	33.61	46.08	60.20	75.95	91.25	106.74	121.03
30.0	22.95	18.67	33.51	40.34	48.18	57.28	66.85	77.23	86.70
45.0	21.49	18.67	33.33	39.07	45.44	53.19	62.47	72.22	80.78
60.0	19.76	20.49	35.24	43.62	51.82	61.20	71.58	83.06	92.80
75.0	19.76	20.67	35.79	48.45	62.38	76.96	93.35	109.29	124.04
90.0	18.40	20.58	35.79	48.36	62.20	77.41	93.62	109.29	123.67
105.0	18.67	21.86	36.70	48.72	62.47	77.77	93.26	109.01	123.58
120.0	17.58	23.22	37.07	44.90	52.55	62.11	73.40	84.61	94.71
135.0	15.57	22.68	36.25	40.25	45.72	52.18	61.11	70.40	79.14
150.0	18.31	22.68	36.70	42.17	54.10	56.01	65.66	75.95	85.06
165.0	17.39	23.41	35.97	45.99	57.01	70.76	85.61	100.54	114.93
180.0	24.50	35.15	45.17	56.01	69.40	84.24	98.17	110.83	121.40
195.0	23.13	34.52	43.81	54.73	67.76	81.33	95.62	107.19	118.39
210.0	22.95	34.52	39.34	45.54	51.91	60.47	68.94	76.96	84.24
225.0	21.49	33.51	36.43	38.98	41.07	45.08	49.00	52.82	55.55
240.0	19.76	34.06	37.07	37.07	37.52	38.89	39.80	40.25	40.53
255.0	19.76	33.61	38.61	40.98	43.08	46.17	47.81	49.00	49.45
270.0	18.40	33.24	38.25	40.34	42.71	45.44	47.36	48.45	48.54
285.0	18.67	34.24	39.80	41.80	44.08	46.81	49.18	50.73	50.91
300.0	17.58	34.33	36.88	35.70	35.43	35.79	36.79	37.34	37.16
315.0	15.57	34.06	37.79	40.80	44.44	49.18	53.73	58.10	62.02
330.0	18.31	34.79	43.35	53.46	63.29	73.40	83.60	93.89	103.27
345.0	17.39	33.97	46.17	60.65	75.22	89.98	103.18	117.57	128.96
360.0	24.50	16.57	33.42	46.08	60.74	75.59	90.89	105.28	119.76
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	131.51	143.71	156.10	168.21	177.86	185.60	191.89	196.44	199.45
15.0	133.87	145.99	158.46	169.94	180.14	187.97	193.98	198.90	201.81
30.0	96.08	103.82	112.29	120.21	127.23	133.42	137.88	141.34	143.71
45.0	88.89	96.26	103.00	109.74	115.93	120.94	124.95	127.59	129.59
60.0	101.82	109.56	117.21	125.22	132.42	137.97	142.25	145.44	147.17
75.0	136.79	148.63	159.83	172.31	181.96	189.70	195.62	200.27	202.82
90.0	135.79	147.63	159.65	171.76	181.32	188.97	194.89	199.54	202.00
105.0	136.42	147.63	159.37	171.30	180.78	188.15	194.07	198.17	200.90
120.0	103.55	111.38	118.85	126.77	134.24	139.79	144.07	147.08	148.90
135.0	86.70	92.80	98.27	104.00	109.83	114.39	118.03	120.58	122.13
150.0	93.71	100.09	106.19	113.11	119.94	125.22	129.23	132.05	134.15
165.0	125.50	135.06	144.89	155.55	164.57	171.85	177.32	181.23	183.60
180.0	131.14	140.25	150.81	159.65	166.57	171.94	176.04	178.04	178.77
195.0	127.41	136.42	146.53	155.19	161.74	166.57	170.39	172.49	173.40
210.0	89.89	94.71	99.81	105.46	110.29	113.93	116.21	117.66	117.94
225.0	57.28	58.19	59.83	61.93	63.39	64.11	64.02	63.57	62.38
240.0	39.71	38.98	39.43	40.25	40.07	39.16	37.89	36.25	34.42
255.0	48.63	49.00	50.45	51.09	50.82	49.72	48.09	47.81	44.08
270.0	47.99	48.72	50.64	51.00	51.09	50.18	48.72	46.72	44.44
285.0	50.36	50.91	52.37	53.28	53.00	51.91	50.27	48.45	45.90
300.0	36.52	36.06	36.43	37.07	36.97	36.16	34.97	33.51	31.78
315.0	65.57	68.67	72.40	75.59	78.14	79.69	80.60	80.78	80.23
330.0	111.02	120.03	128.50	136.15	141.98	146.72	149.81	151.72	152.73
345.0	140.70	152.54	164.29	173.95	181.60	187.70	192.34	195.44	196.99
360.0	131.51	143.71	156.10	168.21	177.86	185.60	191.89	196.44	199.45

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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	200.36	199.99	198.17	194.44	188.88	181.78	173.04	163.47	152.18
15.0	203.00	202.45	200.63	196.90	190.98	183.87	175.31	165.20	153.64
30.0	144.71	144.44	143.35	140.70	136.88	131.87	125.86	118.94	111.38
45.0	130.50	130.14	128.50	126.22	122.40	117.94	112.38	106.10	98.90
60.0	147.90	147.26	145.71	142.80	138.70	133.51	126.95	119.49	111.56
75.0	204.09	203.00	201.09	197.08	191.70	184.05	175.22	165.11	153.45
90.0	203.18	202.18	200.17	195.99	190.52	183.05	174.22	164.11	152.27
105.0	202.18	201.09	198.99	194.98	189.34	181.78	173.13	163.20	151.54
120.0	149.63	148.99	147.44	144.35	140.43	134.79	128.50	120.94	112.66
135.0	123.04	122.31	121.03	118.57	115.11	110.65	105.46	99.45	92.62
150.0	135.15	134.69	132.96	130.32	126.13	121.58	115.84	108.92	101.27
165.0	184.69	183.96	181.96	178.14	172.58	165.57	157.64	147.72	137.88
180.0	178.14	176.13	172.49	166.84	160.38	152.00	143.44	132.24	121.40
195.0	172.76	170.58	166.75	161.92	154.91	147.26	138.25	128.05	117.03
210.0	117.76	116.12	113.47	109.74	104.91	99.91	93.17	86.43	79.14
225.0	60.47	57.47	54.46	50.18	46.26	41.89	40.71	32.60	28.41
240.0	32.24	28.87	28.14	21.49	17.85	14.02	10.20	6.65	3.73
255.0	41.07	37.07	32.60	27.69	22.95	18.03	13.39	8.65	4.83
270.0	41.62	37.79	32.97	28.60	23.86	18.94	13.93	9.29	5.10
285.0	42.99	38.61	34.06	29.05	23.95	19.12	13.93	9.20	5.10
300.0	29.42	26.50	23.41	19.94	16.30	12.75	9.38	6.10	3.64
315.0	79.14	76.68	73.86	70.22	66.03	61.66	56.56	51.36	46.08
330.0	152.27	149.99	147.17	142.25	136.42	129.32	121.49	113.02	102.55
345.0	196.62	193.98	189.61	184.42	177.50	168.30	158.83	147.63	134.97
360.0	200.36	199.99	198.17	194.44	188.88	181.78	173.04	163.47	152.18
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	139.43	125.77	110.92	92.98	76.14	57.19	38.61	20.49	4.83
15.0	140.80	126.41	111.02	93.44	74.95	56.01	38.25	20.04	3.28
30.0	102.36	92.07	80.42	68.58	54.64	41.62	27.69	14.57	2.00
45.0	90.52	80.32	70.03	58.29	46.17	33.42	21.58	10.11	1.27
60.0	102.00	91.25	78.96	66.66	52.37	38.89	24.95	12.20	1.46
75.0	140.70	125.95	110.47	92.71	73.86	54.64	35.61	18.58	3.01
90.0	139.98	125.50	109.74	92.07	74.41	54.46	36.43	18.94	4.01
105.0	138.79	124.49	108.74	91.25	72.67	53.82	35.06	18.31	3.10
120.0	103.00	92.53	80.42	67.21	53.55	40.16	26.05	13.21	1.64
135.0	84.70	75.22	65.39	54.28	42.53	30.69	19.22	8.01	1.18
150.0	92.98	83.24	71.95	59.83	47.17	34.97	22.22	10.56	1.55
165.0	125.86	112.66	97.45	81.69	64.48	46.99	29.87	15.66	2.28
180.0	108.56	94.71	79.23	63.11	47.45	31.15	15.39	2.37	0.64
195.0	104.55	91.44	76.50	60.56	44.44	40.80	12.93	1.46	0.55
210.0	70.67	68.49	51.00	39.98	28.96	18.21	8.65	0.82	0.55
225.0	24.50	20.76	16.76	12.93	9.02	5.28	2.09	0.64	0.46
240.0	2.19	1.46	1.27	1.09	1.00	0.73	0.55	0.55	0.36
255.0	2.00	0.82	0.46	0.55	0.55	0.55	0.55	0.46	0.46
270.0	2.19	0.64	0.09	0.27	0.18	0.27	0.36	0.27	0.46
285.0	2.28	1.18	0.82	0.64	0.55	0.55	0.46	0.36	0.46
300.0	2.28	1.64	1.46	1.27	1.18	0.82	0.73	0.46	0.46
315.0	40.53	34.88	28.51	22.49	16.21	10.20	4.83	0.55	0.36
330.0	92.16	78.96	66.57	52.82	39.80	26.05	13.39	1.46	0.46
345.0	120.94	105.10	89.07	71.31	53.46	35.61	18.94	2.91	0.46
360.0	139.43	125.77	110.92	92.98	76.14	57.19	38.61	20.49	4.83

Intensity data(cd)

C/γ(°)	180.0
0.0	0.55
15.0	0.73
30.0	0.73
45.0	0.73
60.0	0.82
75.0	0.73
90.0	0.82
105.0	0.73
120.0	0.73
135.0	0.73
150.0	0.73
165.0	0.73
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	0.55