
乐达凯

Client:

LumCAT: TUCF04LAJD1WH

Luminaire: LED 灯具

Report No:

Ballast type:

Test No: LCZP22040129

Voltage(V): 119.960

LampCAT:

Current(A): 0.085

Lamp flux(lm): 660.2

Power (W): 10.000

Number of Lamps: 1

PF: 0.983

Length(mm): -75

Width(mm): -75

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 660.20, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 66.02

Central intensity(cd): 231.886, Maximum intensity(cd): 231.886

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=111.6

[C90/270]Total=112.0

Field angle(10%Imax): [C0/180]Total=161.0

[C90/270]Total=161.0

Maximum s/h(1/2): C0_180=1.26 C90_270=1.26

Maximum s/h(1/4): C0_180=1.37 C90_270=1.38

Up flux rate of lamp(%): 0.07%

Down flux rate of lamp(%): 99.93%

Up flux rate of LUM(%): 0.07%

Down flux rate of LUM(%): 99.93%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 79.052%

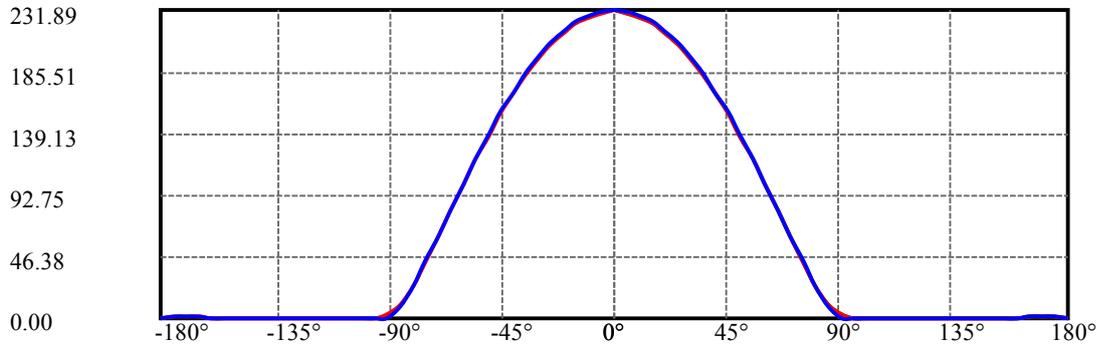
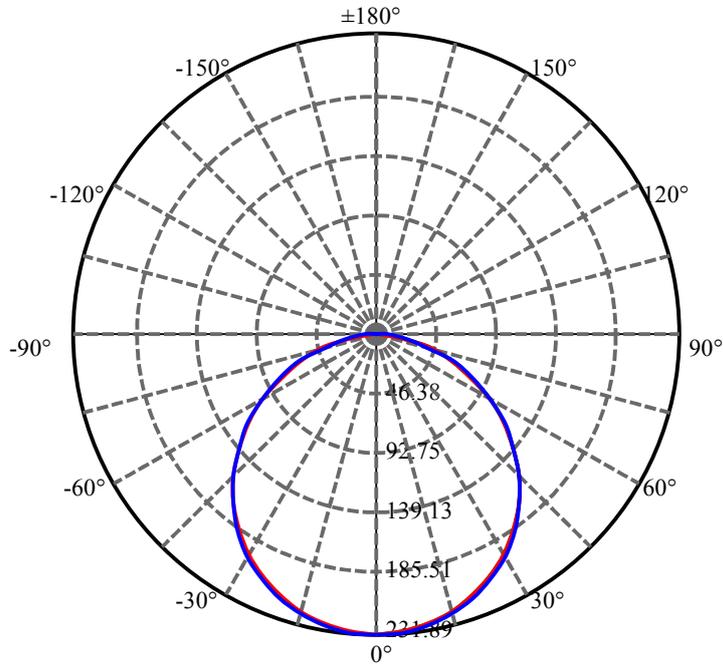
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	231.886	0.000	0	0.00%	0.00%
5.0	230.745	5.531	5.531	0.84%	0.84%
10.0	227.833	16.405	21.935	2.48%	3.32%
15.0	222.853	26.734	48.67	4.05%	7.37%
20.0	215.921	36.161	84.831	5.48%	12.85%
25.0	207.255	44.383	129.214	6.72%	19.57%
30.0	197.039	51.164	180.378	7.75%	27.32%
35.0	184.058	56.119	236.497	8.50%	35.82%
40.0	170.266	59.116	295.613	8.95%	44.78%
45.0	154.962	60.219	355.832	9.12%	53.90%
50.0	137.481	59.092	414.924	8.95%	62.85%
55.0	119.706	55.921	470.845	8.47%	71.32%
60.0	101.156	51.052	521.897	7.73%	79.05%
65.0	81.316	44.359	566.256	6.72%	85.77%
70.0	61.771	36.231	602.487	5.49%	91.26%
75.0	43.037	27.395	629.882	4.15%	95.41%
80.0	24.709	18.127	648.009	2.75%	98.15%
85.0	8.812	9.108	657.117	1.38%	99.53%
90.0	0.699	2.604	659.721	0.39%	99.93%
95.0	0.000	0.191	659.913	0.03%	99.96%
100.0	0.000	0.000	659.913	0.00%	99.96%
105.0	0.000	0.000	659.913	0.00%	99.96%
110.0	0.000	0.000	659.913	0.00%	99.96%
115.0	0.000	0.000	659.913	0.00%	99.96%
120.0	0.000	0.000	659.913	0.00%	99.96%
125.0	0.000	0.000	659.913	0.00%	99.96%
130.0	0.000	0.000	659.913	0.00%	99.96%
135.0	0.000	0.000	659.913	0.00%	99.96%
140.0	0.000	0.000	659.913	0.00%	99.96%
145.0	0.000	0.000	659.913	0.00%	99.96%
150.0	0.000	0.000	659.913	0.00%	99.96%
155.0	0.000	0.000	659.913	0.00%	99.96%
160.0	0.258	0.027	659.94	0.00%	99.96%
165.0	0.737	0.082	660.022	0.01%	99.97%
170.0	0.885	0.096	660.118	0.01%	99.99%
175.0	0.885	0.063	660.181	0.01%	100.00%
180.0	0.443	0.016	660.197	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	180.38	27.32%	27.32%
0-40	295.61	44.78%	44.78%
0-60	521.90	79.05%	79.05%
0-90	659.72	99.93%	99.93%
0-120	659.91	99.96%	99.96%
0-180	660.20	100.00%	100.00%
60-90	137.82	20.88%	20.88%
90-120	0.19	0.03%	0.03%
90-130	0.19	0.03%	0.03%
90-150	0.19	0.03%	0.03%
90-180	0.46	0.07%	0.07%
0-60.71	528.16	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	21.94
10-20	62.90
20-30	95.55
30-40	115.24
40-50	119.31
50-60	106.97
60-70	80.59
70-80	45.52
80-90	11.71
90-100	0.19
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.03
160-170	0.18
170-180	0.06



C0(Max): ———

C0/C180: ———

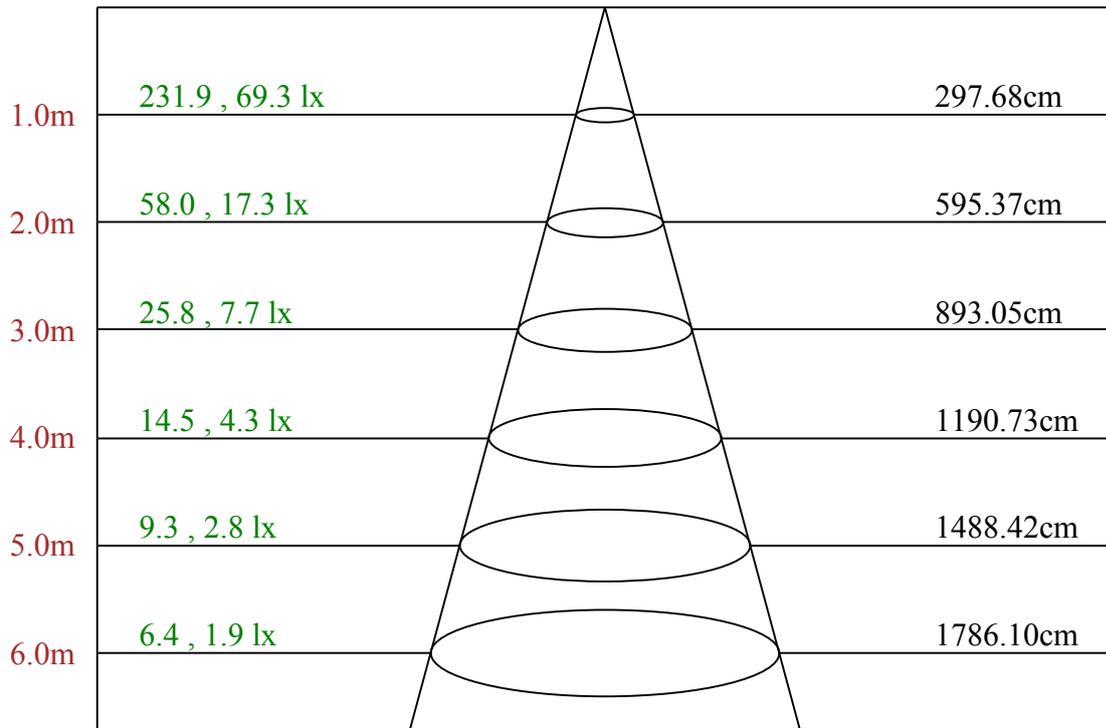
C90/C270: ———

Field angle(10%Imax):C0/180Left:80.5 Right:80.5

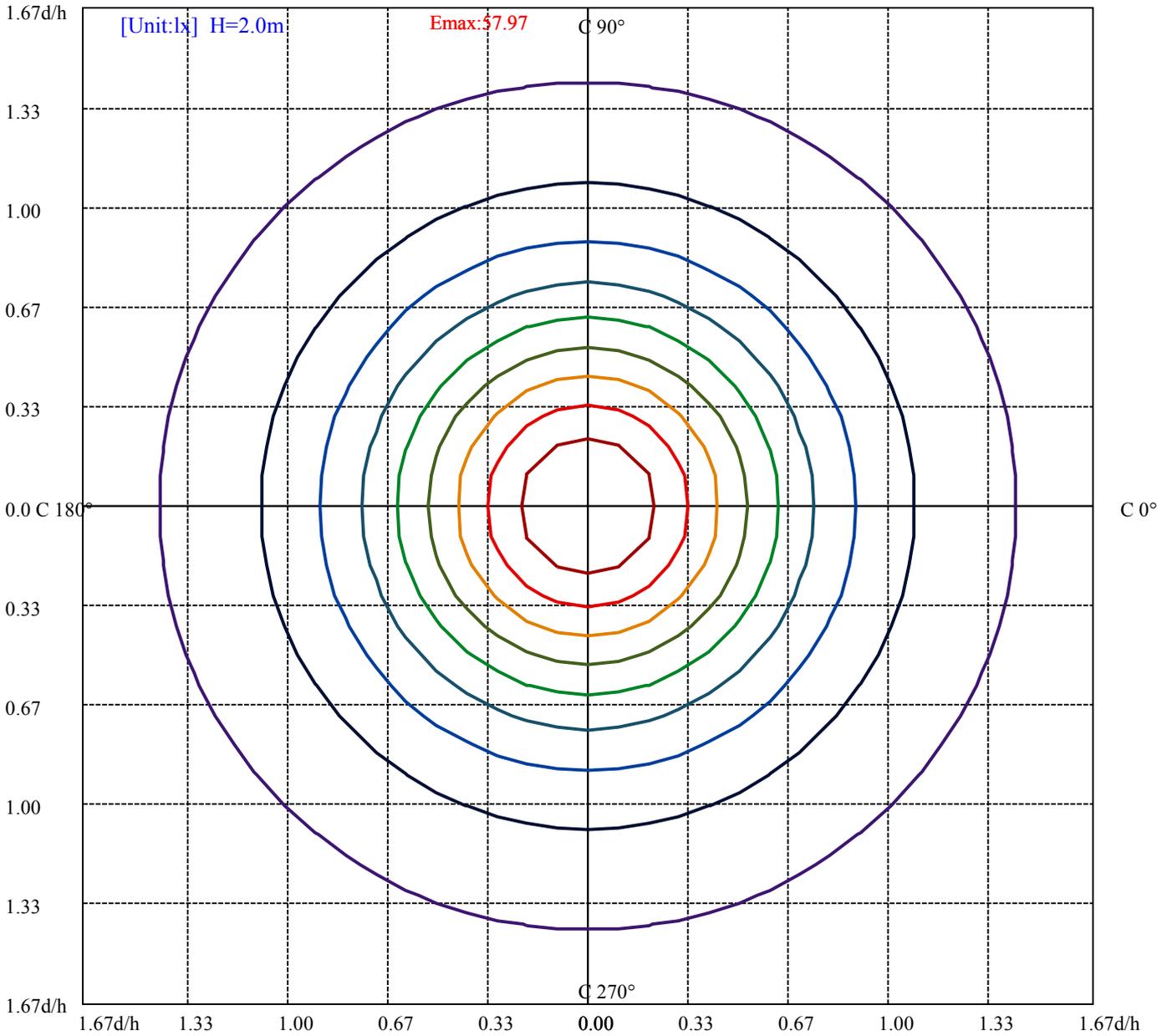
:C90/270Left:80.5 Right:80.5

Beam Angle(50%Imax):C0/180Left:55.8 Right:55.8

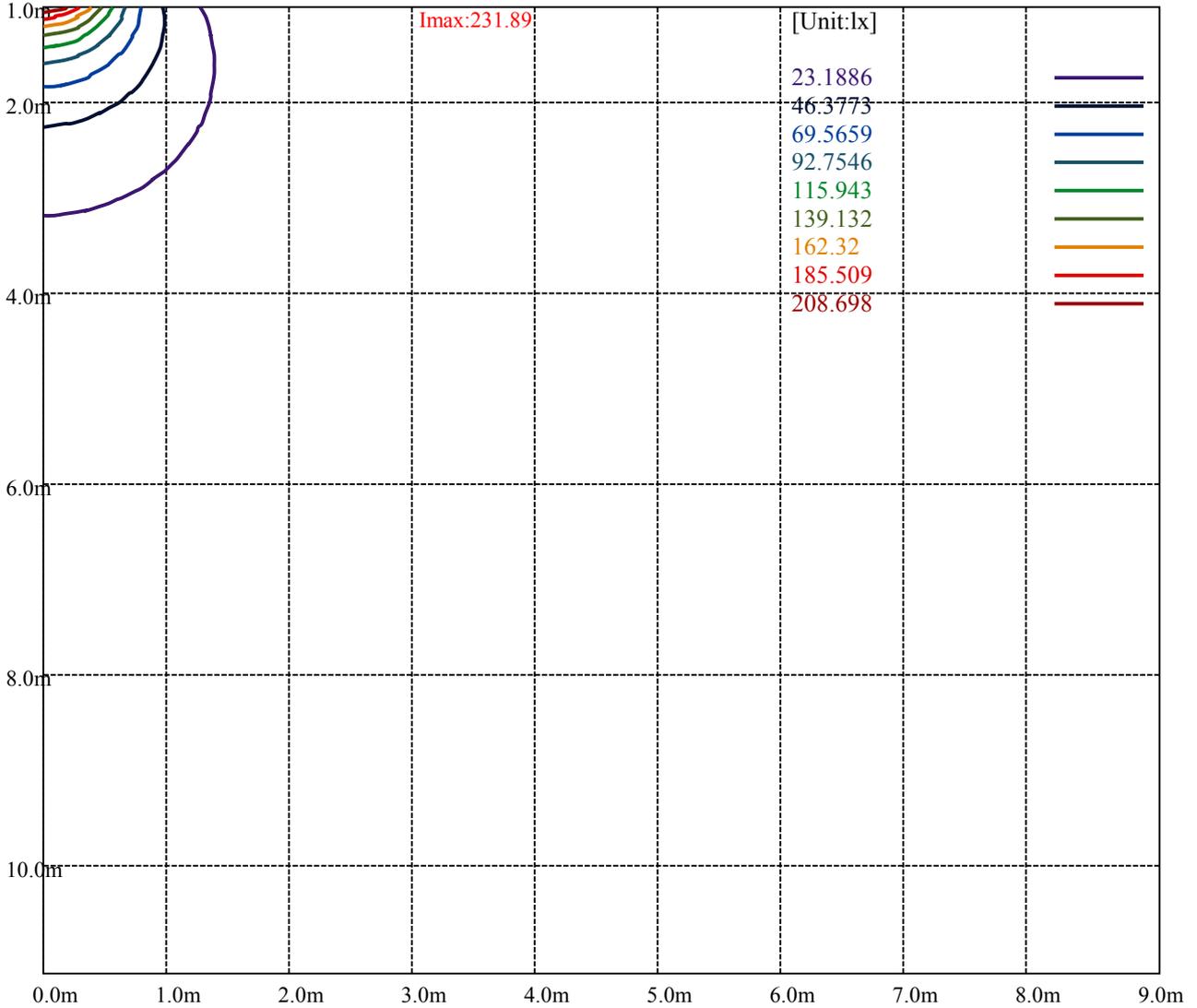
:C90/270Left:56.0 Right:56.0



Max , Ave Beam angle of C0 plane 112.21



- (10%Emax) 5.79715
- (20%Emax) 11.59433
- (30%Emax) 17.39148
- (40%Emax) 23.18865
- (50%Emax) 28.98575
- (60%Emax) 34.783
- (70%Emax) 40.58
- (80%Emax) 46.37725
- (90%Emax) 52.1745



Luminance Table

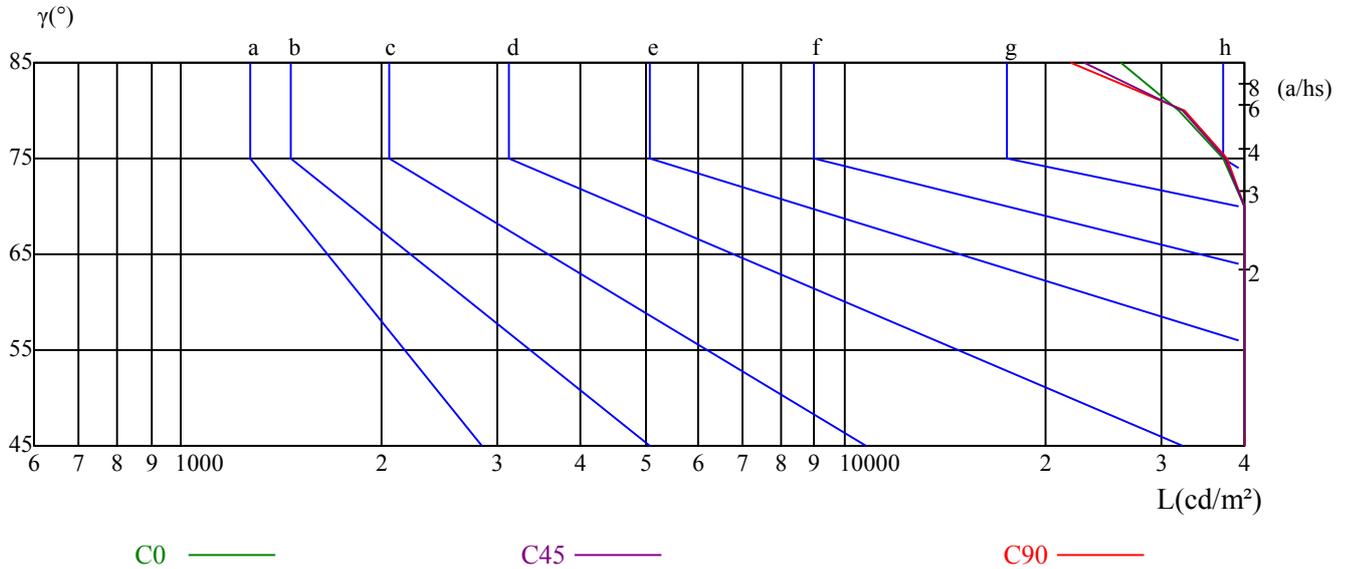
γ	45	50	55	60	65	70	75	80	85
C0	49160	48224	46964	45358	43118	40538	37116	31938	26135
C45	50006	48309	47240	45677	43493	40709	37348	32303	22986
C90	49629	48494	47333	45651	43303	41159	37685	32427	21920

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
43118	43303	43493	37116	37685	37348	26135	21920	22986

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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.04	1.00	0.96	1.02	0.98	0.94	0.97	0.94	0.91	0.93	0.91	0.88	0.90	0.88	0.86	0.84
2	0.91	0.84	0.78	0.89	0.82	0.77	0.85	0.80	0.75	0.82	0.77	0.73	0.79	0.75	0.72	0.70
3	0.79	0.71	0.65	0.78	0.70	0.64	0.75	0.68	0.63	0.72	0.67	0.62	0.70	0.65	0.61	0.59
4	0.70	0.62	0.55	0.69	0.61	0.54	0.67	0.59	0.54	0.64	0.58	0.53	0.62	0.57	0.52	0.50
5	0.63	0.54	0.47	0.62	0.53	0.47	0.60	0.52	0.46	0.58	0.51	0.46	0.56	0.50	0.45	0.43
6	0.57	0.48	0.41	0.56	0.47	0.41	0.54	0.46	0.41	0.52	0.45	0.40	0.50	0.44	0.40	0.38
7	0.51	0.42	0.36	0.50	0.42	0.36	0.49	0.41	0.36	0.47	0.41	0.36	0.46	0.40	0.35	0.33
8	0.47	0.38	0.32	0.46	0.38	0.32	0.45	0.37	0.32	0.43	0.37	0.32	0.42	0.36	0.32	0.30
9	0.43	0.35	0.29	0.42	0.34	0.29	0.41	0.34	0.29	0.40	0.33	0.29	0.39	0.33	0.29	0.27
10	0.40	0.32	0.26	0.39	0.31	0.26	0.38	0.31	0.26	0.37	0.31	0.26	0.36	0.30	0.26	0.24

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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	231.89	231.01	228.39	225.76	219.64	212.64	203.89	192.51	180.26
15.0	231.89	232.77	230.12	227.48	222.19	215.13	206.32	193.97	181.63
30.0	231.89	231.89	231.89	228.35	222.15	215.96	206.22	194.71	182.32
45.0	231.89	231.89	231.89	227.46	223.04	215.96	206.22	195.60	182.32
60.0	231.89	232.77	231.89	228.33	223.00	215.89	206.12	195.46	183.02
75.0	231.89	233.67	232.78	228.32	222.97	215.83	206.91	195.32	182.83
90.0	231.89	231.89	231.00	227.44	222.11	215.01	205.23	194.57	180.36
105.0	231.89	231.89	229.23	226.58	220.38	212.42	203.56	191.17	178.78
120.0	231.89	231.89	230.12	225.69	220.38	212.42	202.68	190.29	177.01
135.0	231.89	231.89	229.23	224.81	218.61	210.64	200.91	187.63	175.24
150.0	231.89	231.00	229.23	224.81	218.61	210.64	199.14	187.63	173.47
165.0	231.89	231.89	229.23	224.81	217.73	208.87	199.14	185.86	172.59
180.0	231.89	228.39	224.01	217.89	209.14	199.51	188.13	174.13	158.38
195.0	231.89	228.36	224.83	216.90	209.84	199.26	187.80	173.69	158.71
210.0	231.89	229.23	224.81	217.73	209.76	199.14	187.63	173.47	158.43
225.0	231.89	229.23	223.92	217.73	208.87	198.25	186.75	173.47	158.43
240.0	231.89	230.11	224.78	218.56	209.68	199.01	187.46	173.25	159.03
255.0	231.89	230.10	225.64	219.40	210.48	201.56	189.08	174.81	159.64
270.0	231.89	229.22	224.78	218.56	210.56	200.79	189.24	175.03	160.81
285.0	231.89	230.12	224.81	218.61	210.64	200.91	190.29	177.01	161.08
300.0	231.89	229.23	225.69	219.50	211.53	201.79	191.17	177.01	162.85
315.0	231.89	230.12	226.58	220.38	212.42	202.68	192.06	178.78	164.62
330.0	231.89	229.23	226.58	221.27	214.19	204.45	198.25	180.55	166.39
345.0	231.89	230.12	226.58	222.15	214.19	205.33	194.71	181.44	168.16
360.0	231.89	231.01	228.39	225.76	219.64	212.64	203.89	192.51	180.26
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	165.38	149.63	132.13	113.76	95.38	76.13	56.88	37.63	20.13
15.0	167.52	150.77	134.02	115.50	96.99	76.71	57.31	37.91	19.40
30.0	168.16	152.23	134.53	115.94	96.47	77.00	57.53	38.06	20.36
45.0	168.16	151.35	134.53	115.94	96.47	76.12	56.64	37.17	19.47
60.0	167.92	151.04	134.16	115.50	95.95	75.52	55.08	36.43	17.77
75.0	167.67	150.73	133.78	114.16	94.54	74.92	54.40	34.78	16.95
90.0	165.25	148.37	131.49	111.95	92.40	72.85	52.42	32.87	15.10
105.0	162.85	146.04	129.22	109.75	90.28	69.92	50.45	31.86	13.28
120.0	161.97	145.15	126.56	107.98	89.39	68.15	48.68	29.21	12.39
135.0	159.31	142.50	124.79	106.21	86.74	66.38	46.91	28.32	10.62
150.0	158.43	141.61	123.91	105.32	84.97	64.61	45.14	26.55	9.74
165.0	157.54	140.72	121.25	103.55	83.20	63.72	44.25	25.67	8.85
180.0	141.76	124.26	105.88	86.63	65.63	46.38	28.00	11.38	0.00
195.0	141.95	124.32	104.92	85.52	66.13	46.73	28.21	11.46	0.00
210.0	141.61	123.91	105.32	85.85	66.38	46.91	28.32	11.51	0.00
225.0	141.61	123.02	105.32	85.85	66.38	46.91	29.21	12.39	0.00
240.0	143.04	124.38	106.61	87.07	67.52	48.86	31.10	14.22	0.89
255.0	143.59	125.75	107.02	88.30	68.67	49.94	31.22	15.16	0.89
270.0	144.82	127.05	108.39	89.73	69.30	51.53	33.76	16.88	1.78
285.0	145.15	127.45	110.63	91.16	72.58	53.99	43.37	17.70	2.66
300.0	146.92	130.10	112.40	101.78	74.35	54.87	36.29	19.47	3.54
315.0	155.77	131.87	114.17	95.59	75.23	56.64	38.06	21.24	5.31
330.0	150.46	132.76	115.06	96.47	77.89	58.41	39.83	22.13	6.20
345.0	152.23	134.53	116.83	98.24	78.77	59.30	39.83	23.01	6.20
360.0	165.38	149.63	132.13	113.76	95.38	76.13	56.88	37.63	20.13

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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	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.0	3.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	3.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	2.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
345.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	4.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.00	0.00	0.00	0.00	0.88	0.88	0.88	0.88
15.0	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.88	0.88
30.0	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.89
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89
75.0	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.89
90.0	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.89
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89
120.0	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.89
135.0	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.89
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89
165.0	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89	0.89
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.88	0.88
195.0	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.88	0.88
210.0	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89
255.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89
285.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89
330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89	0.89
345.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89
360.0	0.00	0.00	0.00	0.00	0.00	0.88	0.88	0.88	0.88

Intensity data(cd)

C/ γ ($^{\circ}$)	180.0
0.0	0.88
15.0	0.88
30.0	0.89
45.0	0.89
60.0	0.89
75.0	0.89
90.0	0.89
105.0	0.89
120.0	0.89
135.0	0.89
150.0	0.89
165.0	0.89
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	0.88