
乐达凯

Client:

LumCAT: TUCF04LAJD1WH-3500K

Luminaire: LED 灯具

Report No:

Ballast type:

Test No: LCZP22040129

Voltage(V): 120.020

LampCAT:

Current(A): 0.085

Lamp flux(lm): 683.9

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): 683.88, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 68.39

Central intensity(cd): 239.926, Maximum intensity(cd): 239.926

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=111.4

[C90/270]Total=112.0

Field angle(10%Imax): [C0/180]Total=160.8

[C90/270]Total=161.0

Maximum s/h(1/2): C0_180=1.25 C90_270=1.27

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 : 79.047%

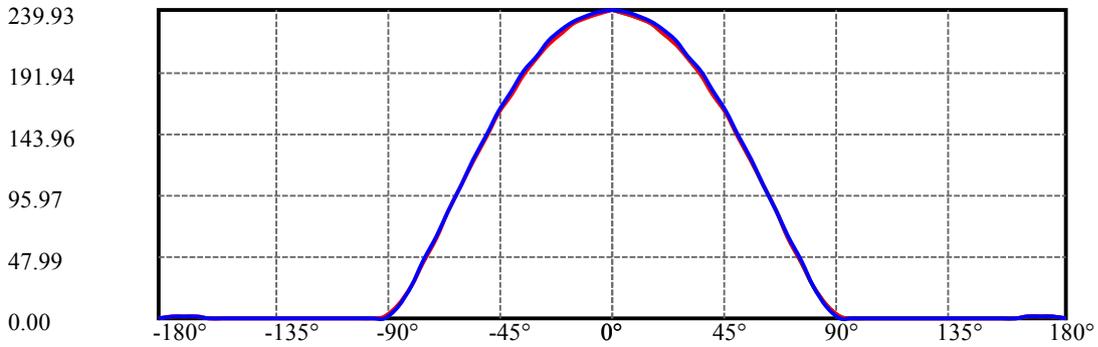
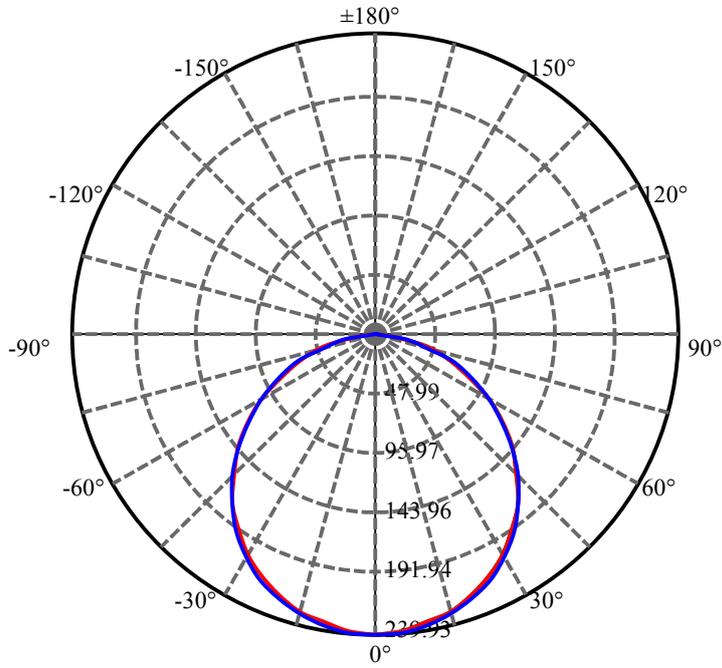
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	239.926	0.000	0	0.00%	0.00%
5.0	238.785	5.723	5.723	0.84%	0.84%
10.0	235.800	16.977	22.7	2.48%	3.32%
15.0	230.820	27.680	50.38	4.05%	7.37%
20.0	223.887	37.474	87.854	5.48%	12.85%
25.0	214.779	46.008	133.862	6.73%	19.57%
30.0	204.120	53.012	186.874	7.75%	27.33%
35.0	190.697	58.140	245.014	8.50%	35.83%
40.0	176.277	61.227	306.241	8.95%	44.78%
45.0	160.605	62.377	368.617	9.12%	53.90%
50.0	142.349	61.216	429.833	8.95%	62.85%
55.0	123.874	57.886	487.719	8.46%	71.32%
60.0	104.845	52.868	540.587	7.73%	79.05%
65.0	84.341	45.991	586.578	6.73%	85.77%
70.0	63.984	37.557	624.135	5.49%	91.26%
75.0	44.512	28.359	652.494	4.15%	95.41%
80.0	25.631	18.768	671.263	2.74%	98.15%
85.0	9.144	9.449	680.712	1.38%	99.54%
90.0	0.698	2.695	683.407	0.39%	99.93%
95.0	0.000	0.191	683.598	0.03%	99.96%
100.0	0.000	0.000	683.598	0.00%	99.96%
105.0	0.000	0.000	683.598	0.00%	99.96%
110.0	0.000	0.000	683.598	0.00%	99.96%
115.0	0.000	0.000	683.598	0.00%	99.96%
120.0	0.000	0.000	683.598	0.00%	99.96%
125.0	0.000	0.000	683.598	0.00%	99.96%
130.0	0.000	0.000	683.598	0.00%	99.96%
135.0	0.000	0.000	683.598	0.00%	99.96%
140.0	0.000	0.000	683.598	0.00%	99.96%
145.0	0.000	0.000	683.598	0.00%	99.96%
150.0	0.000	0.000	683.598	0.00%	99.96%
155.0	0.000	0.000	683.598	0.00%	99.96%
160.0	0.258	0.027	683.625	0.00%	99.96%
165.0	0.737	0.082	683.707	0.01%	99.97%
170.0	0.885	0.096	683.803	0.01%	99.99%
175.0	0.885	0.063	683.866	0.01%	100.00%
180.0	0.443	0.016	683.882	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	186.87	27.33%	27.33%
0-40	306.24	44.78%	44.78%
0-60	540.59	79.05%	79.05%
0-90	683.41	99.93%	99.93%
0-120	683.60	99.96%	99.96%
0-180	683.88	100.00%	100.00%
60-90	142.82	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	547.11	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	22.70
10-20	65.15
20-30	99.02
30-40	119.37
40-50	123.59
50-60	110.75
60-70	83.55
70-80	47.13
80-90	12.14
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: ———

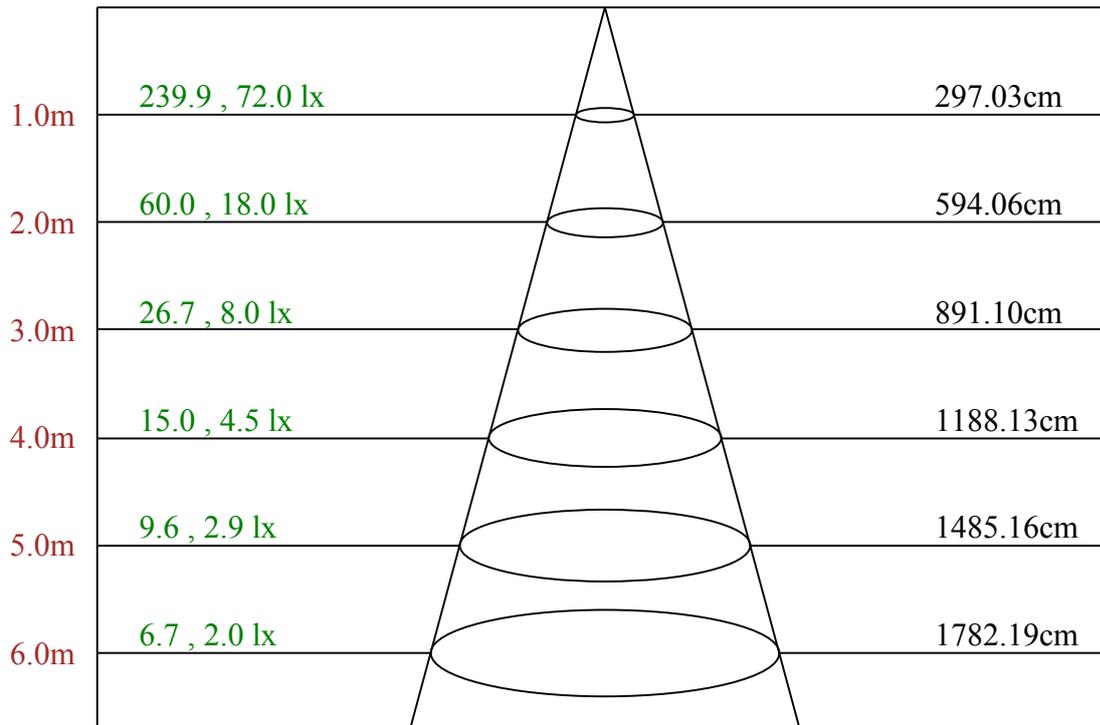
C90/C270: ———

Field angle(10%Imax):C0/180Left:80.4 Right:80.4

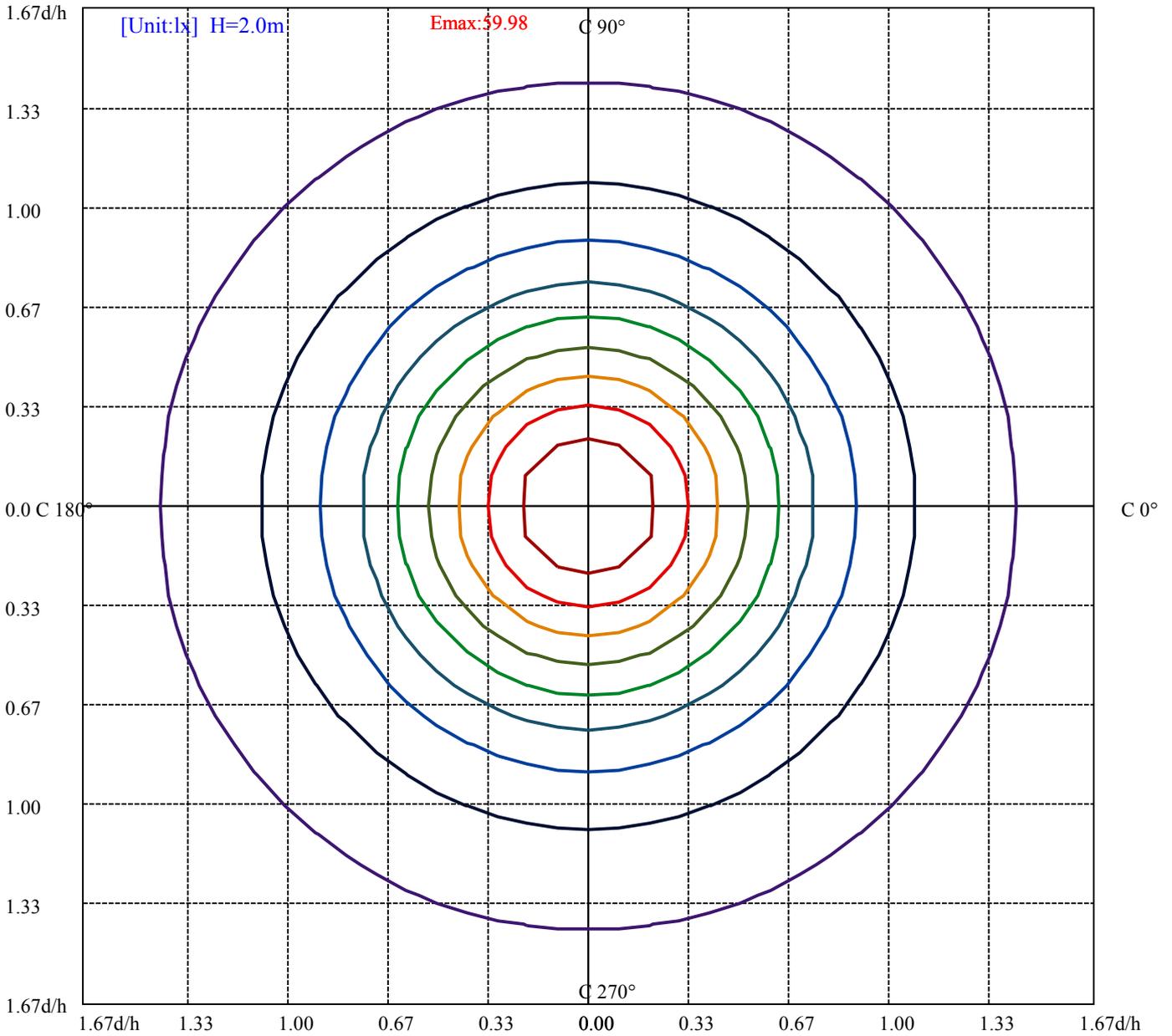
:C90/270Left:80.5 Right:80.5

Beam Angle(50%Imax):C0/180Left:55.7 Right:55.7

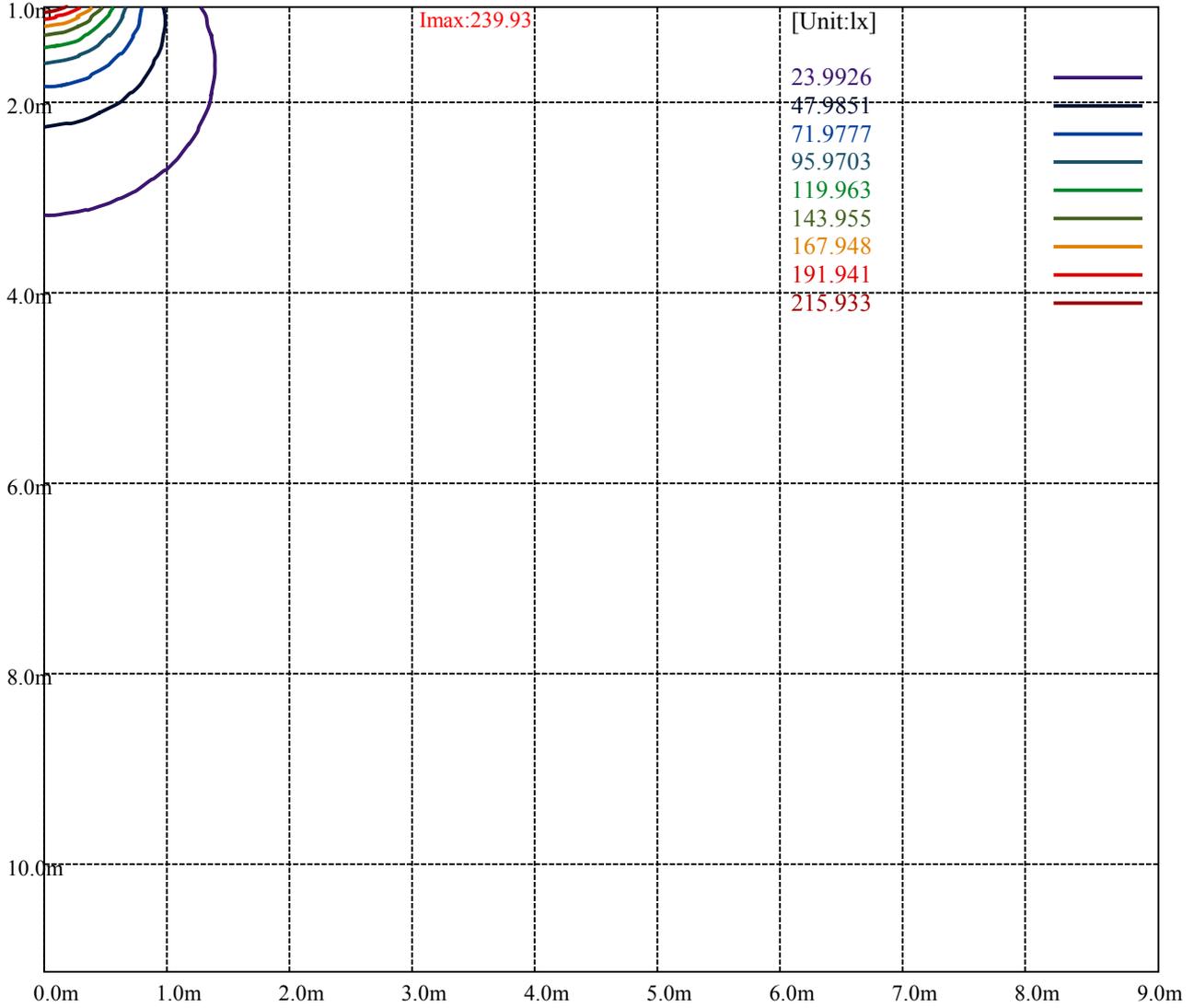
:C90/270Left:56.0 Right:56.0



Max , Ave Beam angle of C0 plane 112.09



- (10%Emax) 5.99815
- (20%Emax) 11.99627
- (30%Emax) 17.99442
- (40%Emax) 23.99257
- (50%Emax) 29.99075
- (60%Emax) 35.98875
- (70%Emax) 41.987
- (80%Emax) 47.98525
- (90%Emax) 53.98325



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Luminance Limiting Curve(no luminous side)

Luminance Table

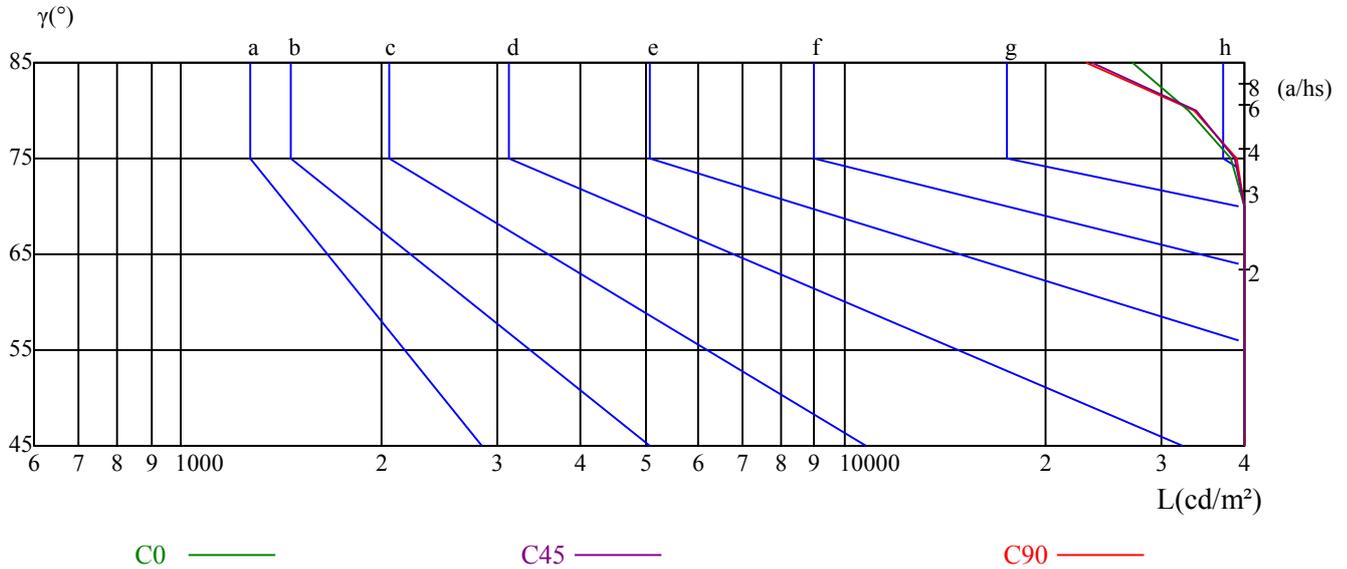
γ	45	50	55	60	65	70	75	80	85
C0	50830	49771	48375	47001	44626	41862	38151	32981	27190
C45	51793	50038	48914	47294	45166	42187	38714	33756	23568
C90	51487	50224	48920	47469	44976	42637	38857	33591	23078

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
44626	44976	45166	38151	38857	38714	27190	23078	23568

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	239.93	239.05	235.56	232.95	226.84	219.86	210.26	198.92	185.83
15.0	239.93	241.69	238.16	235.52	230.22	223.17	213.46	201.11	187.88
30.0	239.93	239.93	239.93	236.38	230.19	223.99	213.37	201.86	188.58
45.0	239.93	239.93	239.93	235.50	231.07	223.99	213.37	202.74	188.58
60.0	239.93	240.81	239.93	236.37	231.04	223.93	213.27	202.60	189.27
75.0	239.93	241.71	240.82	236.36	231.01	223.87	214.06	202.47	189.09
90.0	239.93	239.93	239.04	235.48	230.15	223.04	212.38	201.72	186.61
105.0	239.93	239.93	237.27	234.61	228.42	220.45	210.71	198.31	185.03
120.0	239.93	239.93	238.15	233.73	228.42	220.45	209.82	197.43	183.26
135.0	239.93	239.93	237.27	232.84	226.65	218.68	208.05	194.77	181.49
150.0	239.93	239.04	237.27	232.84	226.65	218.68	206.28	194.77	179.72
165.0	239.93	239.93	237.27	232.84	225.76	216.91	206.28	193.00	178.84
180.0	239.93	235.56	231.20	225.09	216.37	205.90	194.56	179.73	164.02
195.0	239.93	236.40	232.87	224.93	217.87	206.41	194.94	179.94	164.07
210.0	239.93	237.27	232.84	225.76	217.79	206.28	194.77	179.72	163.79
225.0	239.93	237.27	231.96	225.76	216.91	205.40	193.89	179.72	163.79
240.0	239.93	238.15	232.82	226.60	217.71	206.16	194.61	179.50	164.39
255.0	239.93	238.14	233.68	227.44	218.52	208.71	196.22	181.06	165.00
270.0	239.93	237.26	232.82	226.60	218.60	207.94	196.38	181.28	167.06
285.0	239.93	238.15	232.84	226.65	218.68	208.05	197.43	183.26	167.33
300.0	239.93	237.27	233.73	227.53	219.56	208.94	198.31	183.26	169.10
315.0	239.93	238.15	234.61	228.42	220.45	209.82	199.20	185.03	170.87
330.0	239.93	237.27	234.61	229.30	222.22	211.59	205.40	186.81	172.64
345.0	239.93	238.15	234.61	230.19	222.22	212.48	201.86	187.69	174.41
360.0	239.93	239.05	235.56	232.95	226.84	219.86	210.26	198.92	185.83
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	171.00	154.42	136.10	117.78	98.59	78.52	58.45	39.26	20.94
15.0	173.77	156.13	138.49	119.96	100.56	79.39	59.10	39.69	20.29
30.0	174.41	157.59	139.00	120.41	100.04	79.68	59.32	39.84	21.25
45.0	174.41	156.70	139.00	120.41	100.04	78.79	58.43	38.95	20.36
60.0	174.17	156.40	138.62	119.96	99.52	78.20	56.87	37.32	18.66
75.0	173.92	156.09	138.25	118.62	98.11	77.60	56.19	35.68	17.84
90.0	171.50	153.73	135.96	116.41	95.97	75.53	54.21	33.77	16.00
105.0	169.10	151.39	133.69	113.32	93.85	72.60	52.23	32.76	14.17
120.0	168.21	150.51	131.03	111.55	92.96	70.83	50.46	30.10	13.28
135.0	164.67	147.85	129.26	109.78	90.30	69.06	48.69	29.22	10.62
150.0	163.79	146.97	128.37	108.90	87.65	67.29	46.92	27.45	9.74
165.0	162.90	146.08	125.72	107.13	85.88	66.40	46.04	26.56	8.85
180.0	146.57	128.25	109.06	89.86	68.05	47.99	28.79	11.34	0.00
195.0	147.31	128.78	108.50	88.21	68.80	48.51	29.11	11.47	0.00
210.0	146.97	128.37	108.90	88.53	69.06	48.69	29.22	11.51	0.00
225.0	146.97	127.49	108.90	88.53	69.06	48.69	30.10	13.28	0.00
240.0	148.40	128.85	110.19	90.64	70.20	50.65	31.99	15.11	0.89
255.0	148.95	130.22	110.60	91.87	71.35	51.73	32.11	16.05	0.89
270.0	150.18	131.51	111.97	93.30	71.98	53.32	34.66	17.77	1.78
285.0	150.51	131.91	115.09	94.73	75.25	55.78	45.15	18.59	2.66
300.0	152.28	134.57	116.86	105.35	77.02	56.66	37.18	20.36	3.54
315.0	161.13	136.34	118.63	99.16	77.91	58.43	39.84	22.13	5.31
330.0	155.82	137.23	119.52	100.04	80.57	60.20	41.61	23.02	6.20
345.0	157.59	139.00	121.29	101.81	81.45	61.09	41.61	23.90	6.20
360.0	171.00	154.42	136.10	117.78	98.59	78.52	58.45	39.26	20.94

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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	4.36	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	4.36	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	0.87	0.87	0.87	0.87
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	0.87	0.87	0.87
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	0.87	0.87	0.87	0.87

Intensity data(cd)

C/γ(°)	180.0
0.0	0.87
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	0.87