
乐达凯

Client:

LumCAT: TUCF04LAJD1WH-3000K

Luminaire: LED 灯具

Report No:

Ballast type:

Test No: LCZP22040129

Voltage(V): 120.040

LampCAT:

Current(A): 0.085

Lamp flux(lm): 673.9

Power (W): 9.990

Number of Lamps: 1

PF: 0.982

Length(mm): -75

Width(mm): -75

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 673.89, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 67.46

Central intensity(cd): 236.386, Maximum intensity(cd): 236.386

Angle of maximum intensity: C=0.0 γ =0.0

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

[C90/270]Total=112.2

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 : 79.054%

乐达凯 TUCF04LAJD1WH-3000K

Zonal flux distribution table

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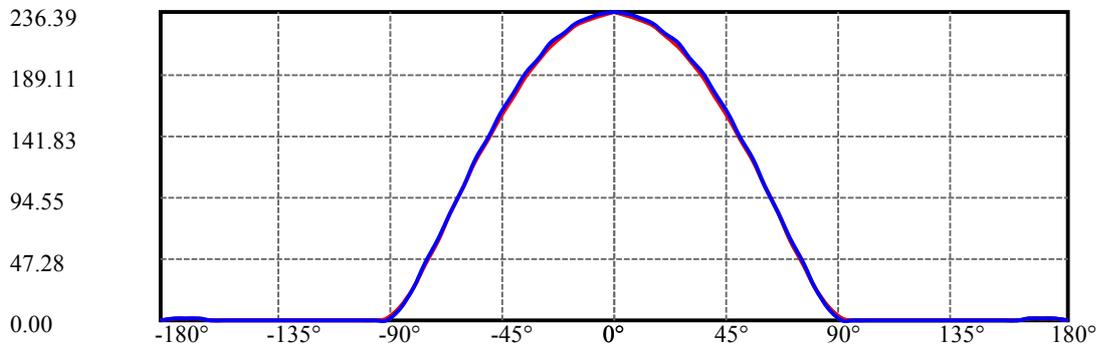
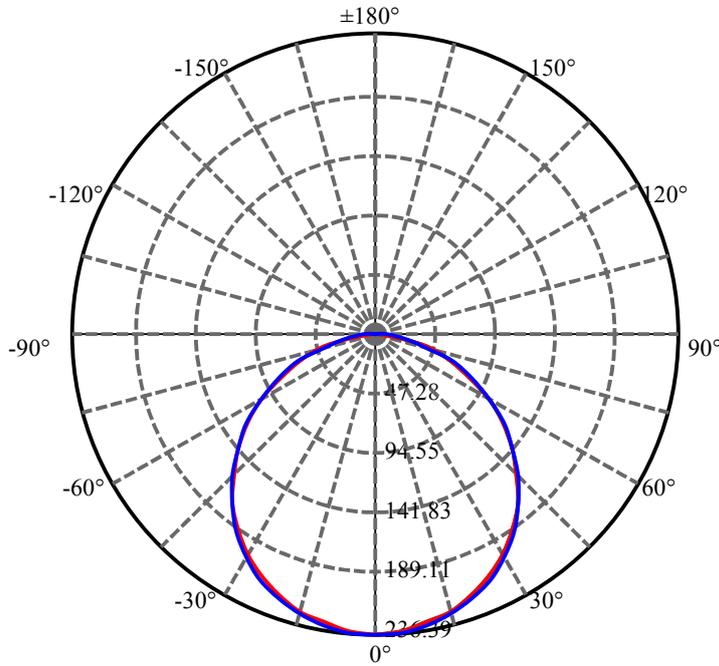
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	236.385	0.000	0	0.00%	0.00%
5.0	235.245	5.638	5.638	0.84%	0.84%
10.0	232.259	16.724	22.362	2.48%	3.32%
15.0	227.280	27.260	49.622	4.05%	7.36%
20.0	220.347	36.891	86.513	5.47%	12.84%
25.0	211.681	45.312	131.824	6.72%	19.56%
30.0	201.170	52.247	184.071	7.75%	27.31%
35.0	187.894	57.292	241.364	8.50%	35.82%
40.0	173.807	60.347	301.711	8.96%	44.77%
45.0	158.171	61.468	363.179	9.12%	53.89%
50.0	140.358	60.322	423.501	8.95%	62.84%
55.0	122.252	57.100	480.601	8.47%	71.32%
60.0	103.296	52.135	532.736	7.74%	79.05%
65.0	83.087	45.310	578.046	6.72%	85.78%
70.0	63.099	37.015	615.061	5.49%	91.27%
75.0	43.922	27.974	643.035	4.15%	95.42%
80.0	25.262	18.512	661.547	2.75%	98.17%
85.0	8.812	9.259	670.806	1.37%	99.54%
90.0	0.698	2.604	673.41	0.39%	99.93%
95.0	0.000	0.191	673.601	0.03%	99.96%
100.0	0.000	0.000	673.601	0.00%	99.96%
105.0	0.000	0.000	673.601	0.00%	99.96%
110.0	0.000	0.000	673.601	0.00%	99.96%
115.0	0.000	0.000	673.601	0.00%	99.96%
120.0	0.000	0.000	673.601	0.00%	99.96%
125.0	0.000	0.000	673.601	0.00%	99.96%
130.0	0.000	0.000	673.601	0.00%	99.96%
135.0	0.000	0.000	673.601	0.00%	99.96%
140.0	0.000	0.000	673.601	0.00%	99.96%
145.0	0.000	0.000	673.601	0.00%	99.96%
150.0	0.000	0.000	673.601	0.00%	99.96%
155.0	0.000	0.000	673.601	0.00%	99.96%
160.0	0.258	0.027	673.628	0.00%	99.96%
165.0	0.737	0.082	673.71	0.01%	99.97%
170.0	0.885	0.096	673.806	0.01%	99.99%
175.0	0.885	0.063	673.869	0.01%	100.00%
180.0	0.443	0.016	673.885	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	184.07	27.31%	27.31%
0-40	301.71	44.77%	44.77%
0-60	532.74	79.05%	79.05%
0-90	673.41	99.93%	99.93%
0-120	673.60	99.96%	99.96%
0-180	673.89	100.00%	100.00%
60-90	140.67	20.87%	20.87%
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%
0-60.70	539.11	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	22.36
10-20	64.15
20-30	97.56
30-40	117.64
40-50	121.79
50-60	109.23
60-70	82.33
70-80	46.49
80-90	11.86
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: ———

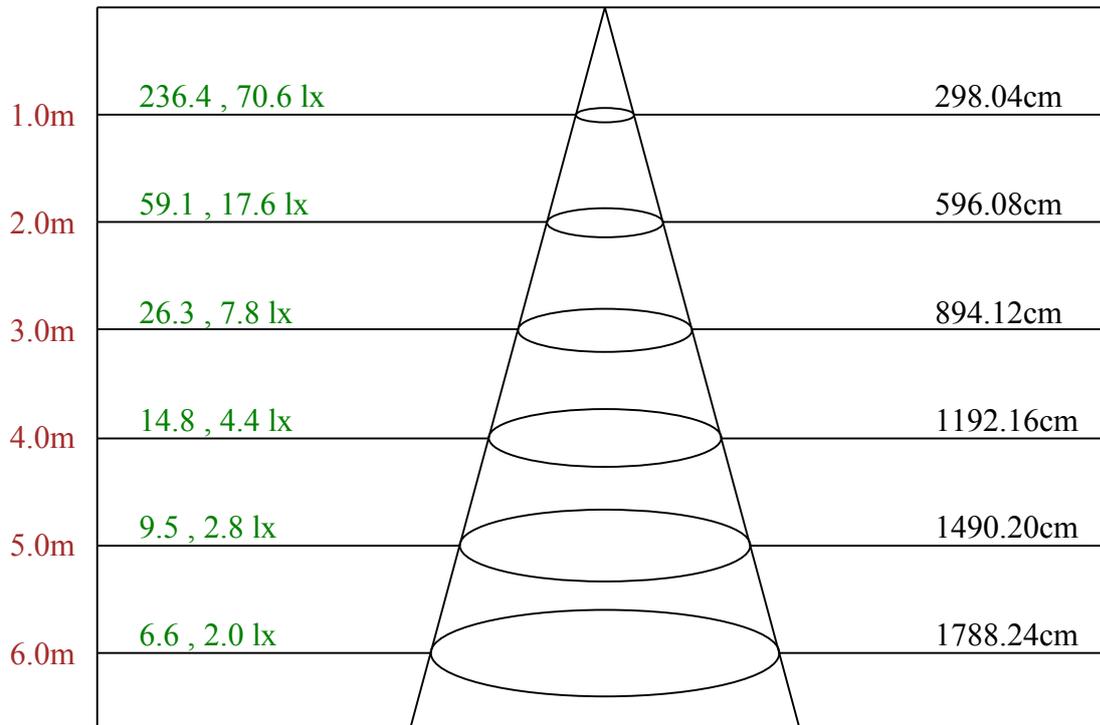
C90/C270: ———

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

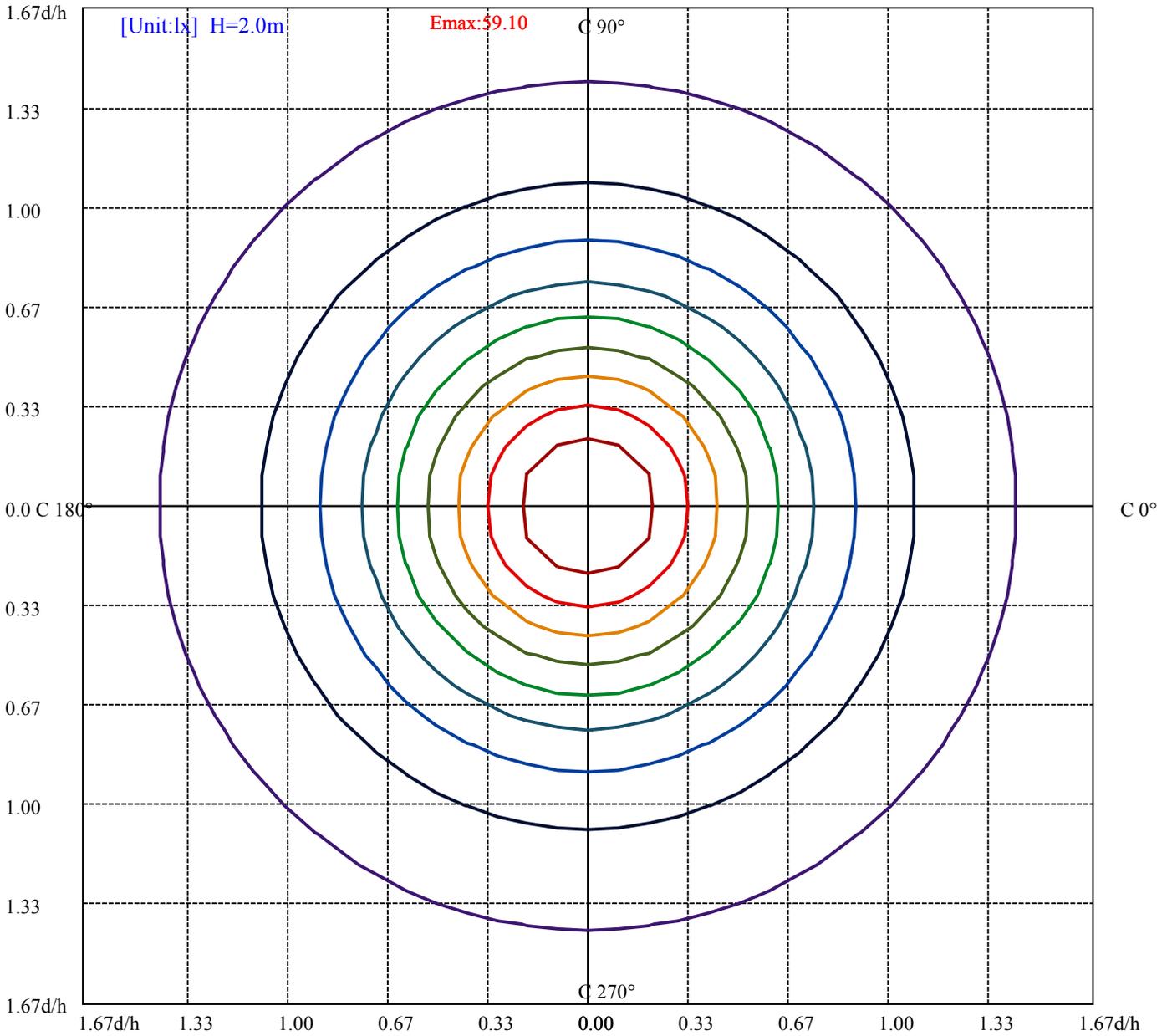
:C90/270Left:80.5 Right:80.5

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

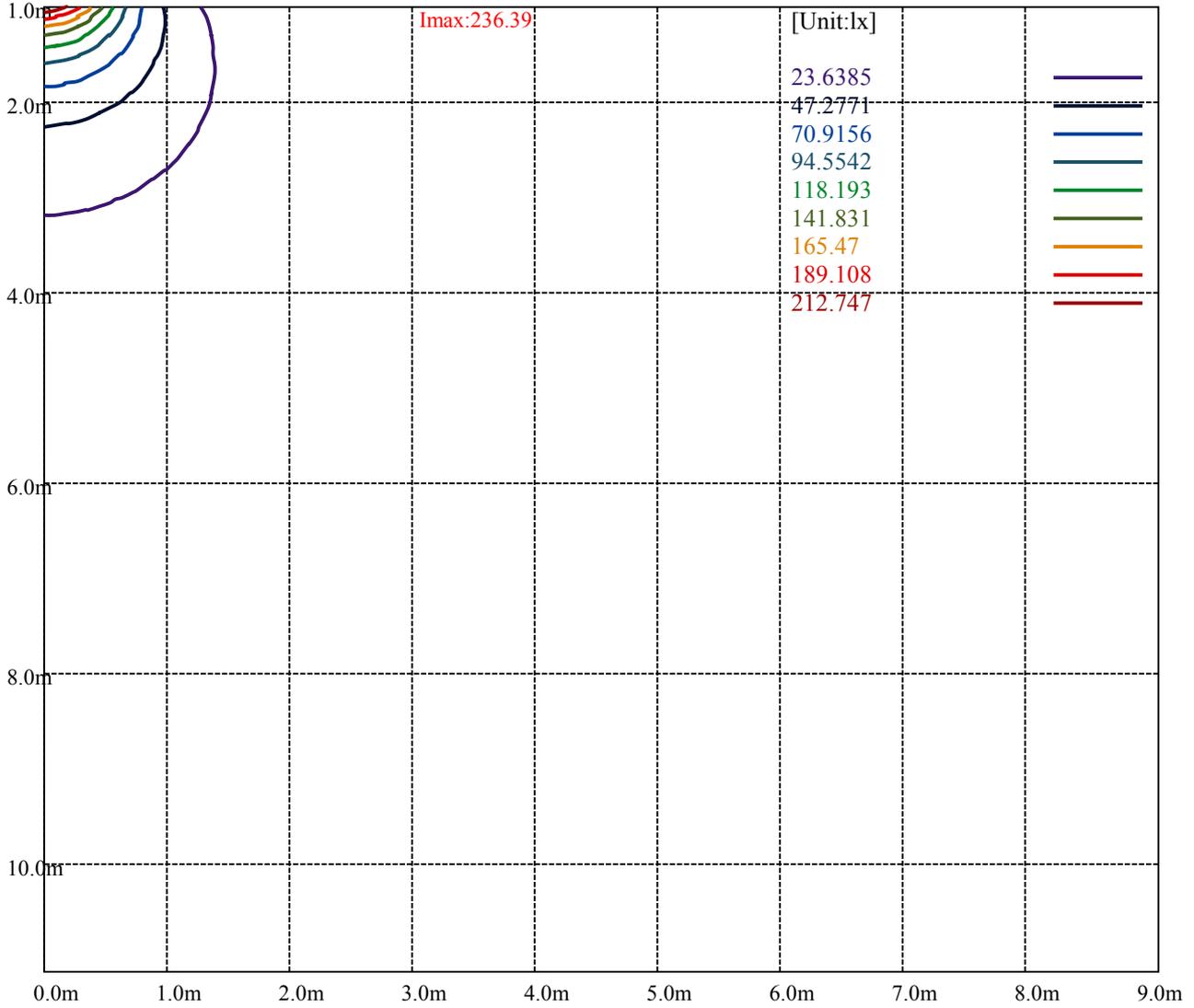
:C90/270Left:56.1 Right:56.1



Max , Ave Beam angle of C0 plane 112.27



- (10%Emax) 5.909625
- (20%Emax) 11.81927
- (30%Emax) 17.7289
- (40%Emax) 23.63855
- (50%Emax) 29.54825
- (60%Emax) 35.45775
- (70%Emax) 41.3675
- (80%Emax) 47.277
- (90%Emax) 53.18675



Luminance Table

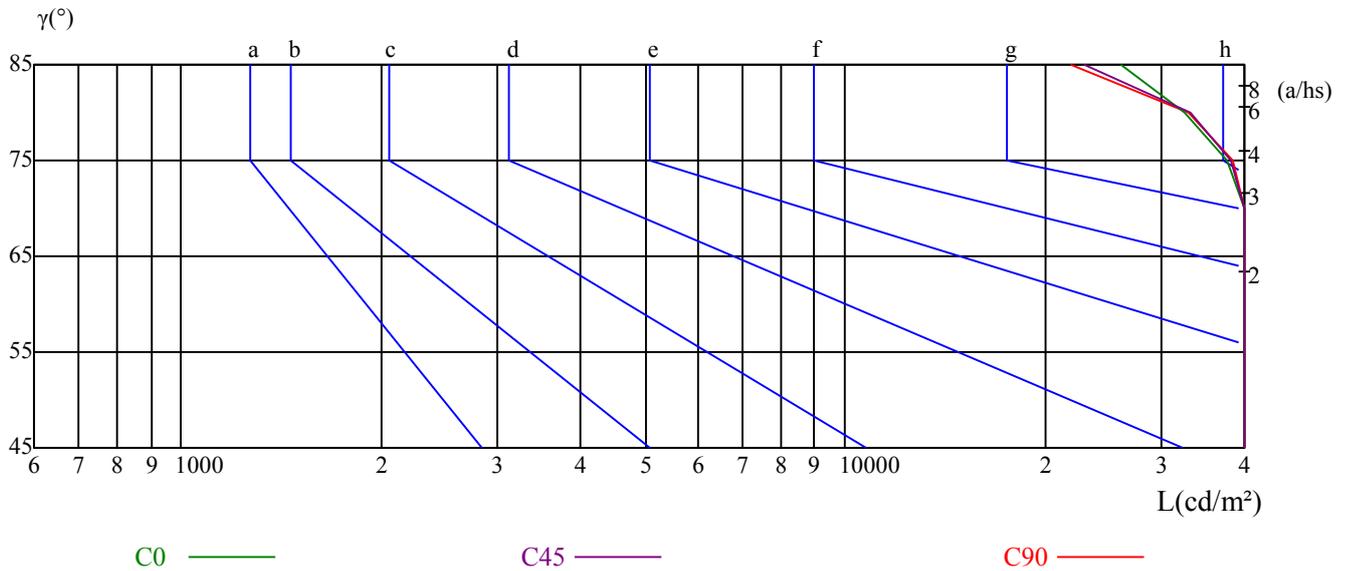
γ	45	50	55	60	65	70	75	80	85
C0	49981	49146	47848	46201	43916	41276	37761	32405	26052
C45	51084	49337	48215	46693	44455	41601	38134	33179	22993
C90	50636	49444	48397	46668	44265	42051	38471	33014	21926

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
43916	44265	44455	37761	38471	38134	26052	21926	22993

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	236.39	235.51	232.02	229.41	223.30	216.32	207.60	196.26	183.18
15.0	236.39	238.15	234.62	231.98	226.68	219.63	210.81	198.46	185.23
30.0	236.39	236.39	236.39	232.84	226.65	220.45	210.71	199.20	185.92
45.0	236.39	236.39	236.39	231.96	227.53	220.45	210.71	200.09	185.92
60.0	236.39	237.27	236.39	232.83	227.50	220.39	210.61	199.95	186.62
75.0	236.39	238.17	237.28	232.82	227.47	220.33	211.41	199.81	186.43
90.0	236.39	236.39	235.50	231.94	226.61	219.50	209.73	199.06	183.95
105.0	236.39	236.39	233.73	231.07	224.88	216.91	208.05	195.66	182.38
120.0	236.39	236.39	234.61	230.19	224.88	216.91	207.17	193.89	180.61
135.0	236.39	236.39	233.73	229.30	223.11	215.14	205.40	191.23	178.84
150.0	236.39	235.50	233.73	229.30	223.11	215.14	203.63	191.23	177.07
165.0	236.39	236.39	233.73	229.30	222.22	213.37	203.63	189.46	176.18
180.0	236.39	232.02	227.66	221.56	212.83	203.24	191.03	177.07	161.37
195.0	236.39	232.86	229.33	221.39	214.33	203.75	191.40	177.29	162.29
210.0	236.39	233.73	229.30	222.22	214.25	203.63	191.23	177.07	162.02
225.0	236.39	233.73	228.42	222.22	213.37	202.74	190.35	177.07	162.02
240.0	236.39	234.61	229.28	223.06	214.17	203.50	191.06	176.84	162.63
255.0	236.39	234.60	230.14	223.90	214.98	206.06	192.68	178.40	163.24
270.0	236.39	233.72	229.28	223.06	215.06	205.28	192.84	178.62	164.40
285.0	236.39	234.61	229.30	223.11	215.14	205.40	193.89	180.61	164.67
300.0	236.39	233.73	230.19	223.99	216.02	206.28	195.66	180.61	166.44
315.0	236.39	234.61	231.07	224.88	216.91	207.17	196.55	182.38	168.21
330.0	236.39	233.73	231.07	225.76	218.68	208.94	202.74	184.15	169.99
345.0	236.39	234.61	231.07	226.65	218.68	209.83	199.20	185.04	171.76
360.0	236.39	235.51	232.02	229.41	223.30	216.32	207.60	196.26	183.18
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	168.35	152.65	134.33	116.01	96.82	77.63	57.57	38.38	20.06
15.0	171.11	154.36	136.72	118.19	98.79	78.50	58.21	38.81	19.40
30.0	171.76	155.82	137.23	118.64	98.27	78.80	58.43	38.95	20.36
45.0	171.76	154.93	137.23	118.64	98.27	77.91	57.55	38.07	19.48
60.0	171.51	154.63	136.85	118.19	97.75	77.31	55.99	37.32	17.77
75.0	171.27	154.32	136.48	116.85	96.34	76.71	55.31	35.68	16.95
90.0	168.85	151.07	134.19	114.64	94.20	74.65	53.32	33.77	15.11
105.0	166.44	148.74	131.92	112.44	92.08	71.71	51.35	32.76	13.28
120.0	165.56	147.85	129.26	110.67	91.19	69.94	49.58	30.10	12.39
135.0	162.90	145.20	127.49	108.90	88.53	68.17	47.81	29.22	10.62
150.0	162.02	144.31	126.60	107.13	86.76	66.40	46.04	27.45	9.74
165.0	161.13	143.42	123.95	105.36	84.99	65.52	45.15	26.56	8.85
180.0	143.92	126.48	108.16	88.10	67.16	47.10	28.78	11.34	0.00
195.0	144.65	127.01	106.73	87.32	67.92	47.63	29.11	11.47	0.00
210.0	144.31	126.60	107.13	87.65	68.17	47.81	29.22	11.51	0.00
225.0	144.31	125.72	107.13	87.65	68.17	47.81	30.10	12.39	0.00
240.0	145.74	127.08	109.31	88.87	69.32	49.77	31.99	14.22	0.89
255.0	146.29	128.45	109.72	90.09	70.47	50.85	32.11	15.16	0.89
270.0	147.52	129.75	111.08	91.53	71.09	52.43	34.66	16.88	1.78
285.0	147.85	130.14	113.32	92.96	74.37	54.89	44.27	17.71	2.66
300.0	149.62	132.80	115.09	103.58	76.14	55.78	37.18	19.48	3.54
315.0	159.36	134.57	116.86	97.39	77.02	57.55	38.95	22.13	5.31
330.0	154.05	135.46	117.75	98.27	79.68	59.32	40.73	23.02	6.20
345.0	155.82	137.23	119.52	100.04	80.57	60.20	40.73	23.90	6.20
360.0	168.35	152.65	134.33	116.01	96.82	77.63	57.57	38.38	20.06

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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