
乐达凯

Client:

LumCAT: CL26-15-26DB-952C5-WH-GD-4000K

Luminaire: LED灯具

Report No:

Ballast type:

Test No: LCZP23030076

Voltage(V): 119.930

LampCAT:

Current(A): 0.244

Lamp flux(lm): 2164.4

Power (W): 27.500

Number of Lamps: 1

PF: 0.940

Length(mm): -330

Width(mm): -330

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2164.36, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 78.70

Central intensity(cd): 561.151, Maximum intensity(cd): 623.010

Angle of maximum intensity: C=0.0 γ =35.0

Beam Angle(50%Imax): [C0/180]Total=123.2

[C90/270]Total=123.6

Field angle(10%Imax): [C0/180]Total=166.0

[C90/270]Total=166.2

Maximum s/h(1/2): C0_180=1.65 C90_270=1.65

Maximum s/h(1/4): C0_180=1.66 C90_270=1.66

Up flux rate of lamp(%): 0.35%

Down flux rate of lamp(%): 99.65%

Up flux rate of LUM(%): 0.35%

Down flux rate of LUM(%): 99.65%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 78.610%

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Zonal flux distribution table

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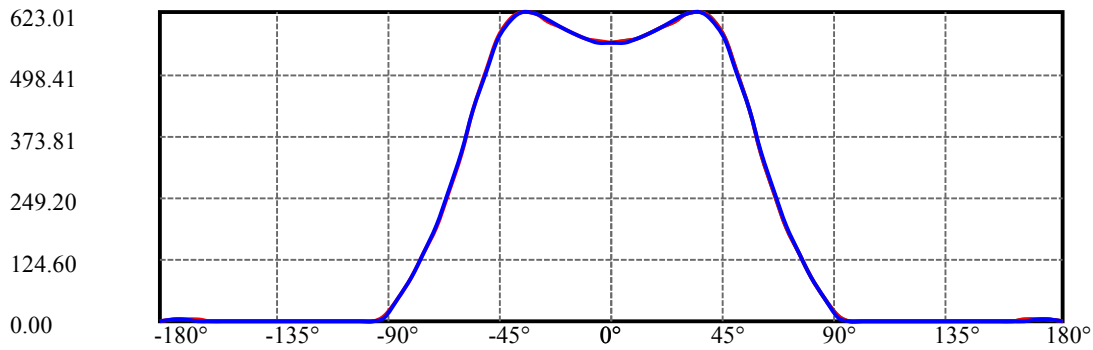
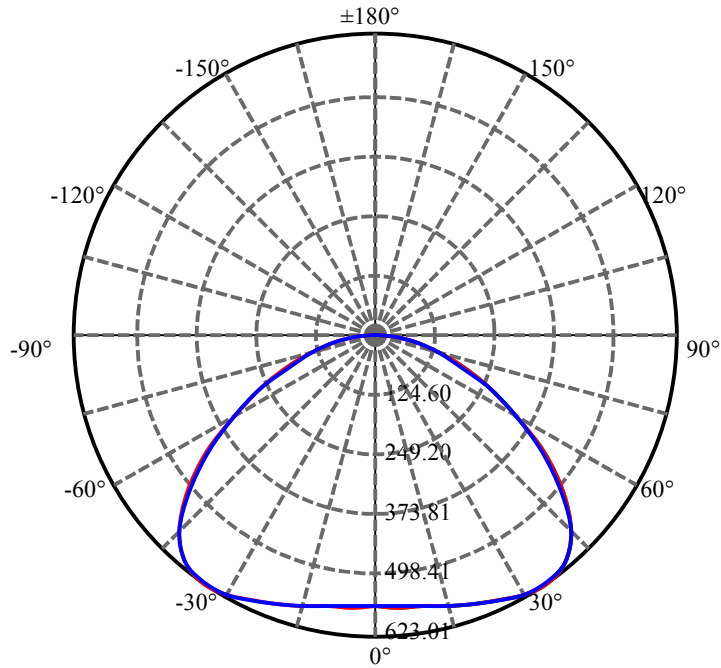
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	561.151	0.000	0	0.00%	0.00%
5.0	562.946	13.438	13.438	0.62%	0.62%
10.0	568.711	40.483	53.921	1.87%	2.49%
15.0	578.067	68.026	121.947	3.14%	5.63%
20.0	590.606	96.315	218.262	4.45%	10.08%
25.0	604.939	125.391	343.653	5.79%	15.88%
30.0	617.138	154.655	498.308	7.15%	23.02%
35.0	621.253	182.362	680.67	8.43%	31.45%
40.0	609.012	205.260	885.93	9.48%	40.93%
45.0	571.857	218.647	1104.578	10.10%	51.03%
50.0	505.646	217.725	1322.303	10.06%	61.09%
55.0	424.551	202.256	1524.558	9.34%	70.44%
60.0	340.542	176.849	1701.407	8.17%	78.61%
65.0	258.686	145.673	1847.081	6.73%	85.34%
70.0	190.085	113.632	1960.712	5.25%	90.59%
75.0	135.371	85.069	2045.781	3.93%	94.52%
80.0	89.220	60.094	2105.875	2.78%	97.30%
85.0	44.497	36.334	2142.209	1.68%	98.98%
90.0	9.018	14.653	2156.862	0.68%	99.65%
95.0	0.449	2.592	2159.454	0.12%	99.77%
100.0	0.487	0.254	2159.708	0.01%	99.79%
105.0	0.599	0.290	2159.999	0.01%	99.80%
110.0	0.562	0.303	2160.302	0.01%	99.81%
115.0	0.562	0.285	2160.587	0.01%	99.83%
120.0	0.637	0.292	2160.878	0.01%	99.84%
125.0	0.898	0.355	2161.233	0.02%	99.86%
130.0	0.898	0.391	2161.624	0.02%	99.87%
135.0	0.898	0.363	2161.987	0.02%	99.89%
140.0	0.898	0.333	2162.32	0.02%	99.91%
145.0	0.898	0.300	2162.619	0.01%	99.92%
150.0	1.310	0.325	2162.944	0.02%	99.93%
155.0	1.347	0.336	2163.281	0.02%	99.95%
160.0	1.759	0.326	2163.606	0.02%	99.97%
165.0	1.871	0.299	2163.906	0.01%	99.98%
170.0	2.170	0.240	2164.145	0.01%	99.99%
175.0	2.432	0.165	2164.31	0.01%	100.00%
180.0	1.347	0.045	2164.355	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	498.31	23.02%	23.02%
0-40	885.93	40.93%	40.93%
0-60	1701.41	78.61%	78.61%
0-90	2156.86	99.65%	99.65%
0-120	2160.88	99.84%	99.84%
0-180	2164.36	100.00%	100.00%
60-90	455.45	21.04%	21.04%
90-120	4.02	0.19%	0.19%
90-130	4.76	0.22%	0.22%
90-150	6.08	0.28%	0.28%
90-180	7.45	0.34%	0.34%
0-61.03	1731.48	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	53.92
10-20	164.34
20-30	280.05
30-40	387.62
40-50	436.37
50-60	379.10
60-70	259.31
70-80	145.16
80-90	50.99
90-100	2.85
100-110	0.59
110-120	0.58
120-130	0.75
130-140	0.70
140-150	0.62
150-160	0.66
160-170	0.54
170-180	0.16



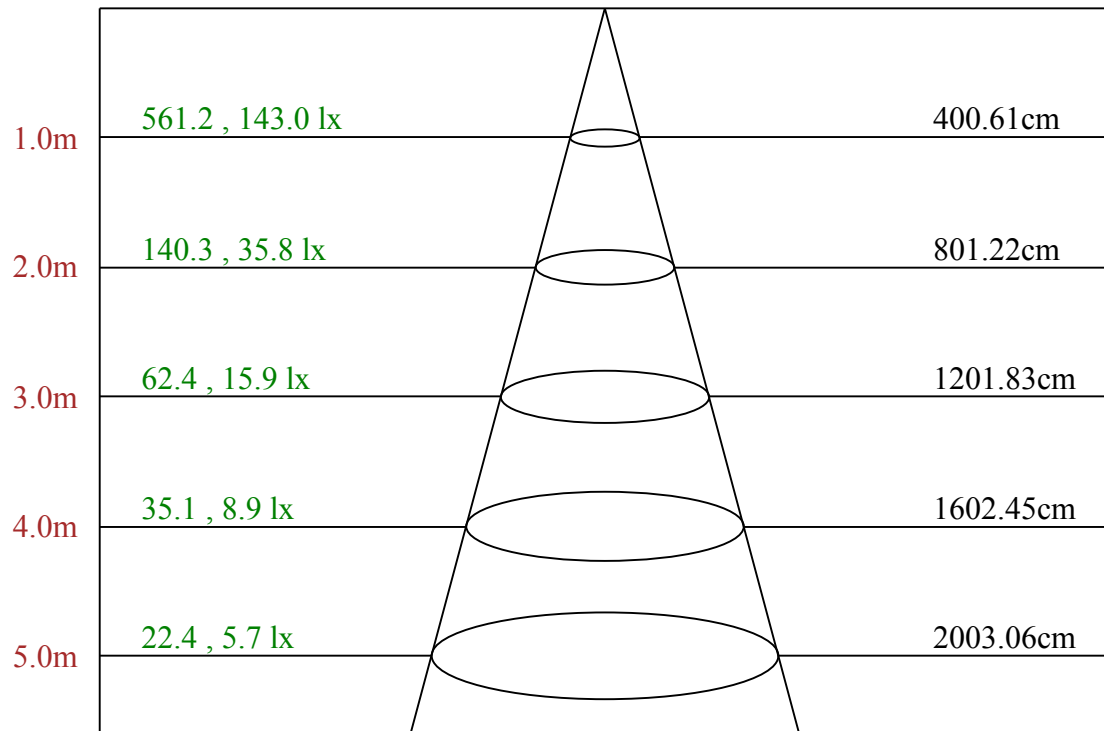
C0(Max): ———

C0/C180: ———

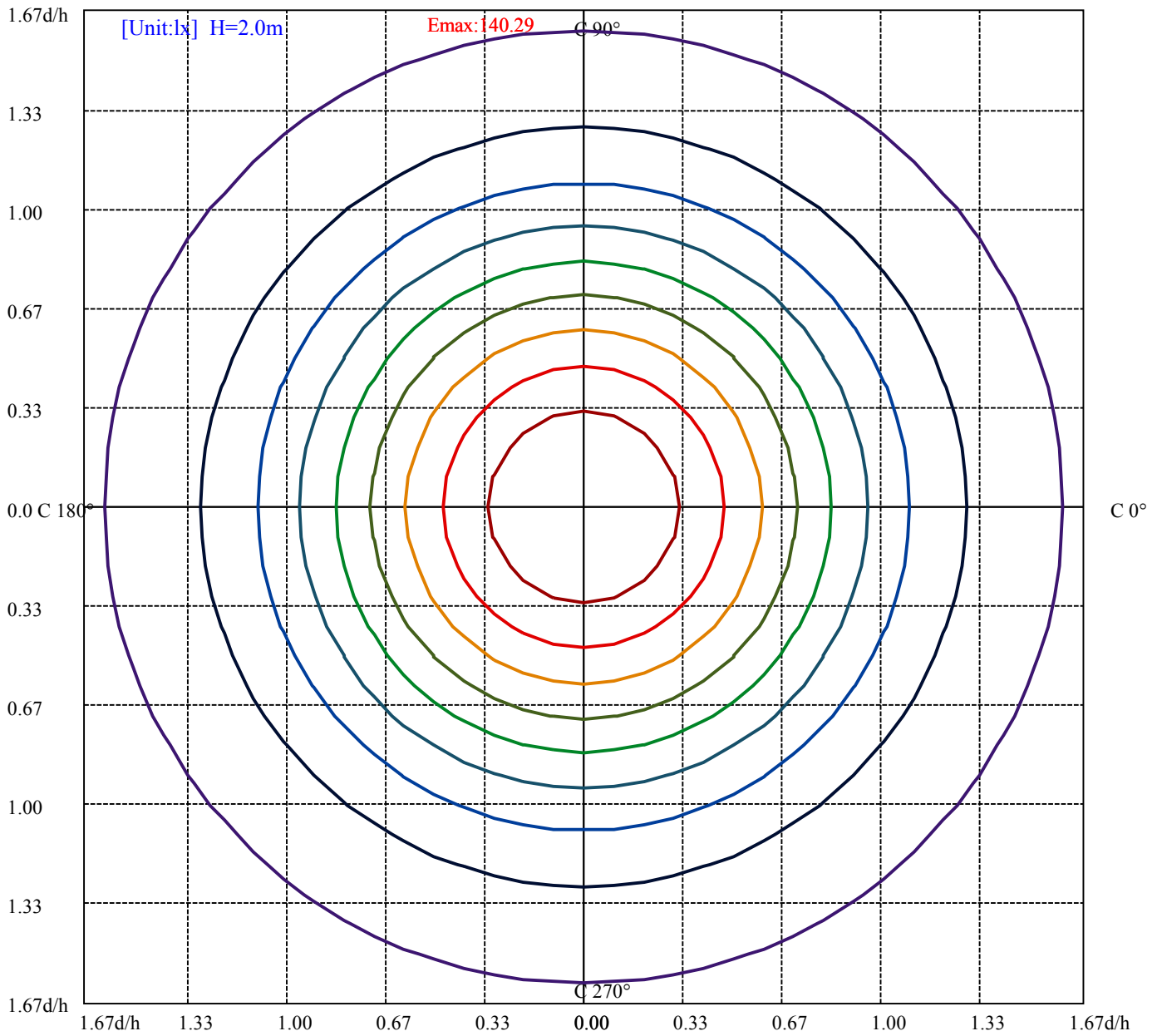
C90/C270: ———

Field angle(10%Imax):C0/180Left:118.1 Right:48.1
:C90/270Left:118.1 Right:48.1

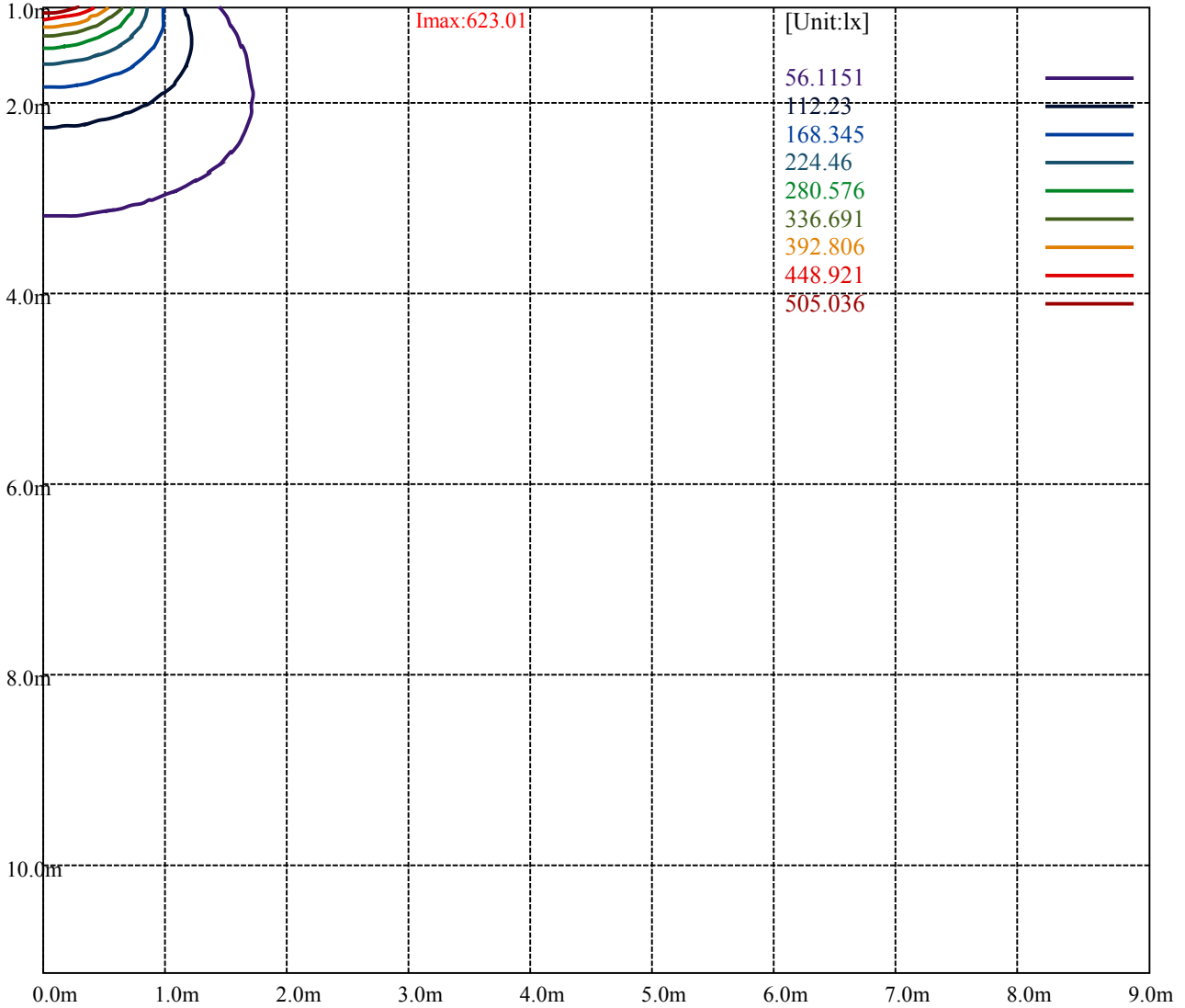
Beam Angle(50%Imax):C0/180Left:96.6 Right:26.6
:C90/270Left:96.8 Right:26.8



Max , Ave Beam angle of C0 plane 126.94



(10%Emax) 14.02878	—
(20%Emax) 28.0575	—
(30%Emax) 42.08625	—
(40%Emax) 56.115	—
(50%Emax) 70.144	—
(60%Emax) 84.17275	—
(70%Emax) 98.2015	—
(80%Emax) 112.2302	—
(90%Emax) 126.259	—



Luminance Table

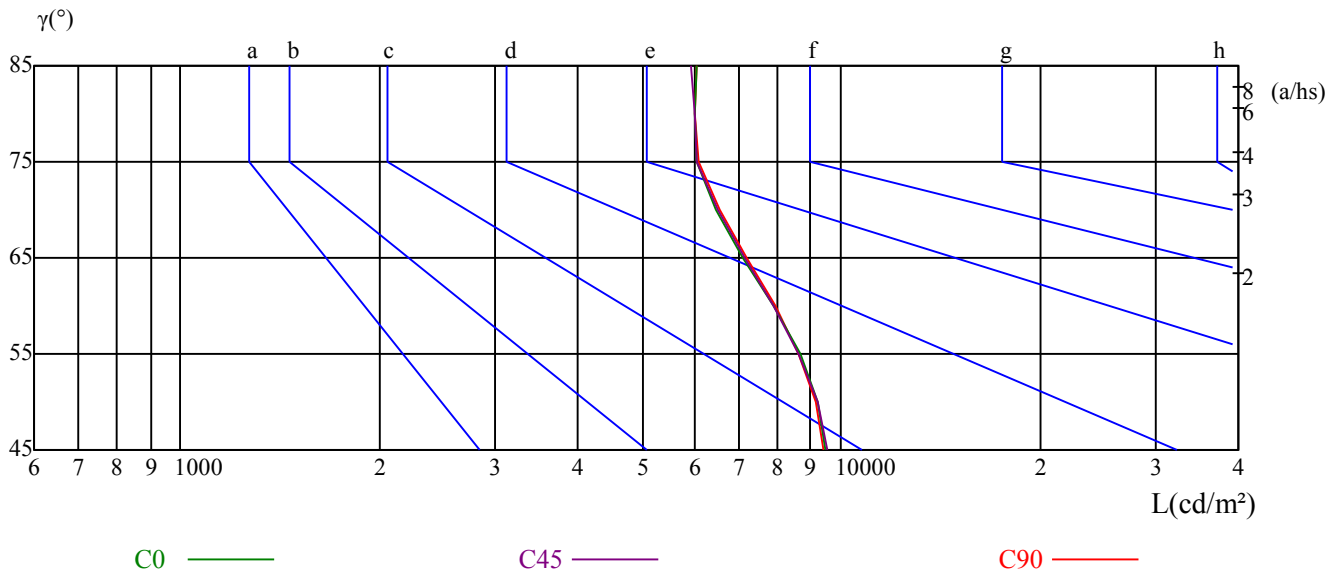
γ	45	50	55	60	65	70	75	80	85
C0	9476	9234	8664	7904	7114	6450	6048	6010	6046
C45	9543	9204	8646	7913	7165	6492	6068	6029	5946
C90	9427	9158	8639	7940	7214	6558	6083	6004	6042

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7114	7214	7165	6048	6083	6068	6046	6042	5946

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	1.03	0.99	0.95	1.01	0.97	0.93	0.97	0.93	0.90	0.93	0.90	0.88	0.89	0.87	0.85	0.83
2	0.90	0.83	0.77	0.88	0.81	0.76	0.84	0.79	0.74	0.81	0.76	0.72	0.78	0.74	0.71	0.68
3	0.78	0.70	0.63	0.77	0.69	0.63	0.74	0.67	0.61	0.71	0.65	0.60	0.68	0.63	0.59	0.57
4	0.69	0.60	0.53	0.68	0.59	0.53	0.65	0.58	0.52	0.63	0.56	0.51	0.60	0.55	0.50	0.48
5	0.61	0.52	0.45	0.60	0.51	0.45	0.58	0.50	0.44	0.56	0.49	0.44	0.54	0.48	0.43	0.41
6	0.55	0.46	0.39	0.54	0.45	0.39	0.52	0.44	0.38	0.50	0.43	0.38	0.49	0.42	0.38	0.36
7	0.49	0.40	0.34	0.49	0.40	0.34	0.47	0.39	0.34	0.45	0.39	0.33	0.44	0.38	0.33	0.31
8	0.45	0.36	0.30	0.44	0.36	0.30	0.43	0.35	0.30	0.41	0.35	0.30	0.40	0.34	0.29	0.27
9	0.41	0.32	0.27	0.40	0.32	0.27	0.39	0.32	0.27	0.38	0.31	0.26	0.37	0.31	0.26	0.24
10	0.38	0.29	0.24	0.37	0.29	0.24	0.36	0.29	0.24	0.35	0.28	0.24	0.34	0.28	0.24	0.22

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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	561.15	562.03	566.45	574.41	585.01	598.27	613.29	622.13	618.59
15.0	561.15	561.15	563.82	571.84	581.64	595.89	609.25	617.27	614.59
30.0	561.15	559.36	562.94	569.19	579.02	591.53	604.94	612.08	607.62
45.0	561.15	559.36	562.05	568.32	577.29	589.84	601.49	607.76	603.28
60.0	561.15	558.46	561.15	566.54	575.52	587.19	597.96	604.25	599.76
75.0	561.15	560.25	562.05	566.56	575.56	586.37	597.18	602.58	598.08
90.0	561.15	559.35	560.25	566.56	574.66	585.47	596.28	602.58	598.08
105.0	561.15	559.35	561.15	566.56	574.68	585.51	596.34	602.65	599.04
120.0	561.15	559.35	561.15	565.66	574.68	585.51	597.24	604.46	601.75
135.0	561.15	560.25	562.05	567.48	576.51	587.36	600.01	607.24	605.43
150.0	561.15	559.34	562.05	567.48	577.42	589.16	600.91	610.85	609.04
165.0	561.15	559.34	562.96	569.28	578.32	591.87	605.43	614.46	613.56
180.0	561.15	565.57	571.76	583.24	596.50	612.41	622.13	623.89	604.45
195.0	561.15	565.60	573.62	584.31	598.56	613.70	625.28	627.06	606.58
210.0	561.15	565.62	573.66	585.28	599.57	615.66	627.27	629.95	609.40
225.0	561.15	565.63	574.60	586.25	602.39	618.52	631.07	631.97	614.04
240.0	561.15	565.64	574.62	588.09	604.25	621.31	635.67	636.57	615.92
255.0	561.15	567.46	576.46	590.87	607.09	625.10	639.51	640.41	619.70
270.0	561.15	566.56	577.36	590.87	607.99	626.00	640.41	641.32	620.60
285.0	561.15	566.56	577.39	590.92	608.06	626.11	640.54	641.44	617.99
300.0	561.15	566.56	576.49	590.92	608.06	625.21	637.84	636.93	615.28
315.0	561.15	566.57	576.51	589.16	606.33	622.60	636.15	634.34	612.66
330.0	561.15	565.67	574.71	587.36	604.53	619.89	627.12	631.63	608.14
345.0	561.15	565.67	573.80	586.45	600.91	618.08	628.02	626.21	602.72
360.0	561.15	562.03	566.45	574.41	585.01	598.27	613.29	622.13	618.59
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	592.96	537.29	460.41	372.92	288.97	214.74	155.53	107.81	67.16
15.0	587.87	531.76	455.16	370.54	285.92	211.99	154.09	106.89	65.91
30.0	582.60	526.30	448.56	362.78	282.36	211.77	153.69	106.33	66.12
45.0	576.39	520.81	446.41	362.15	283.26	210.66	153.29	105.78	65.44
60.0	571.03	515.36	442.64	362.73	281.02	209.20	151.74	105.05	63.75
75.0	571.96	516.11	443.16	361.19	281.03	210.77	153.12	105.38	64.85
90.0	572.86	517.02	444.06	362.09	283.73	211.67	153.12	105.38	64.85
105.0	573.78	518.75	444.77	364.48	283.28	211.11	153.37	104.65	64.05
120.0	579.19	525.06	451.09	366.28	285.09	213.81	154.27	105.55	64.96
135.0	582.84	529.52	455.43	369.58	289.16	214.16	154.52	107.53	65.06
150.0	587.36	534.04	460.85	376.81	290.97	214.16	154.52	105.72	65.06
165.0	591.87	541.27	467.17	379.52	292.77	218.68	157.23	108.43	67.77
180.0	553.20	478.08	389.71	303.11	225.34	162.60	112.23	70.70	22.98
195.0	558.48	484.55	396.37	307.30	229.80	164.78	114.01	72.15	23.16
210.0	559.36	485.20	399.42	310.96	232.32	167.99	116.16	73.27	24.13
225.0	562.05	488.54	398.90	313.74	234.86	170.32	116.53	73.51	23.31
240.0	565.64	491.12	401.34	314.24	235.23	171.49	117.62	74.52	24.24
255.0	567.46	491.80	404.43	317.05	237.79	172.94	117.99	74.76	24.32
270.0	567.46	489.99	403.52	317.05	237.79	172.04	116.19	72.96	25.22
285.0	567.47	491.68	403.27	313.96	235.47	171.41	139.84	73.08	24.36
300.0	562.05	486.27	400.56	351.85	233.66	167.80	113.67	71.27	23.46
315.0	587.36	485.25	395.79	308.14	228.62	164.46	112.95	71.39	23.49
330.0	554.83	479.82	392.17	304.52	227.71	162.65	112.95	69.58	22.59
345.0	548.50	469.88	384.04	300.00	222.29	160.85	110.24	69.58	21.69
360.0	592.96	537.29	460.41	372.92	288.97	214.74	155.53	107.81	67.16

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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	18.56	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.88
15.0	18.71	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89
30.0	17.87	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89
45.0	16.14	0.00	0.00	0.90	0.00	0.00	0.00	0.90	0.90
60.0	17.06	0.00	0.90	0.90	0.00	0.00	0.00	0.90	0.90
75.0	16.21	0.00	0.00	0.90	0.90	0.00	0.00	0.90	0.90
90.0	15.31	0.00	0.00	0.90	0.90	0.00	0.90	0.90	0.90
105.0	16.24	0.00	0.00	0.00	0.90	0.90	0.90	0.90	0.90
120.0	16.24	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90
135.0	16.27	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90
150.0	18.07	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.90
165.0	18.98	0.00	0.00	0.00	0.00	0.90	0.00	0.90	0.90
180.0	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
195.0	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
210.0	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
225.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
240.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
255.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
270.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
285.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
300.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
315.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
330.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
345.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
360.0	18.56	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.88
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.88	0.88	0.88	1.77	1.77	1.77	2.65	2.65	2.65
15.0	0.89	0.89	0.89	1.78	1.78	1.78	1.78	2.67	2.67
30.0	0.89	0.89	0.89	1.79	1.79	1.79	1.79	2.68	2.68
45.0	0.90	0.90	0.90	1.79	1.79	1.79	1.79	2.69	2.69
60.0	0.90	0.90	0.90	1.80	1.80	1.80	1.80	2.69	2.69
75.0	0.90	0.90	0.90	1.80	1.80	1.80	1.80	2.70	2.70
90.0	0.90	0.90	0.90	1.80	1.80	1.80	1.80	2.70	2.70
105.0	0.90	0.90	0.90	1.80	1.80	1.80	1.80	2.71	2.71
120.0	0.90	0.90	0.90	1.80	1.80	1.80	1.80	2.71	2.71
135.0	0.90	0.90	0.90	1.81	1.81	1.81	2.71	1.81	2.71
150.0	0.90	0.90	0.90	1.81	1.81	1.81	1.81	2.71	2.71
165.0	0.90	0.90	0.90	0.90	1.81	1.81	1.81	1.81	2.71
180.0	0.88	0.88	0.88	0.88	0.88	1.77	1.77	1.77	2.65
195.0	0.89	0.89	0.89	0.89	0.89	1.78	1.78	1.78	2.67
210.0	0.89	0.89	0.89	0.89	0.89	1.79	1.79	1.79	1.79
225.0	0.90	0.90	0.90	0.90	0.90	1.79	1.79	1.79	1.79
240.0	0.90	0.90	0.90	0.90	0.90	1.80	1.80	1.80	2.69
255.0	0.90	0.90	0.90	0.90	0.90	1.80	1.80	1.80	1.80
270.0	0.90	0.90	0.90	0.90	0.90	1.80	1.80	1.80	1.80
285.0	0.90	0.90	0.90	0.90	0.90	1.80	1.80	1.80	2.71
300.0	0.90	0.90	0.90	0.90	0.90	1.80	1.80	1.80	1.80
315.0	0.90	0.90	0.90	0.90	0.90	1.81	1.81	1.81	1.81
330.0	0.90	0.90	0.90	0.90	0.90	0.90	1.81	1.81	2.71
345.0	0.90	0.90	0.90	0.90	0.90	1.81	1.81	1.81	1.81
360.0	0.88	0.88	0.88	1.77	1.77	1.77	2.65	2.65	2.65

Intensity data(cd)

C/γ(°)	180.0
0.0	2.65
15.0	2.67
30.0	2.68
45.0	2.69
60.0	2.69
75.0	2.70
90.0	2.70
105.0	2.71
120.0	2.71
135.0	2.71
150.0	2.71
165.0	2.71
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	2.65