
AFX

Client:

LumCAT: JUNP18LAJUDSN-2700K

Luminaire: LED Lamp

Report No:

Ballast type:

Test No: LCZP25080169

Voltage(V): 120.000

LampCAT:

Current(A): 0.245

Lamp flux(lm): 1808.3

Power (W): 29.100

Number of Lamps: 1

PF: 0.992

Length(mm): -450

Width(mm): -450

Phm Type: C

Height(mm): 50

Photometric Results

Lumens(lm): 1808.33, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 62.14

Central intensity(cd): 389.257, Maximum intensity(cd): 389.257

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=125.0

[C90/270]Total=126.6

Field angle(10%Imax): [C0/180]Total=N.A.

[C90/270]Total=N.A.

Maximum s/h(1/2): C0_180=1.29 C90_270=1.29

Maximum s/h(1/4): C0_180=1.42 C90_270=1.42

Up flux rate of lamp(%): 25.53%

Down flux rate of lamp(%): 74.47%

Up flux rate of LUM(%): 25.53%

Down flux rate of LUM(%): 74.47%

CIE Type : Semidirect lighting

Output flux ratio in π solid angle : 51.312%

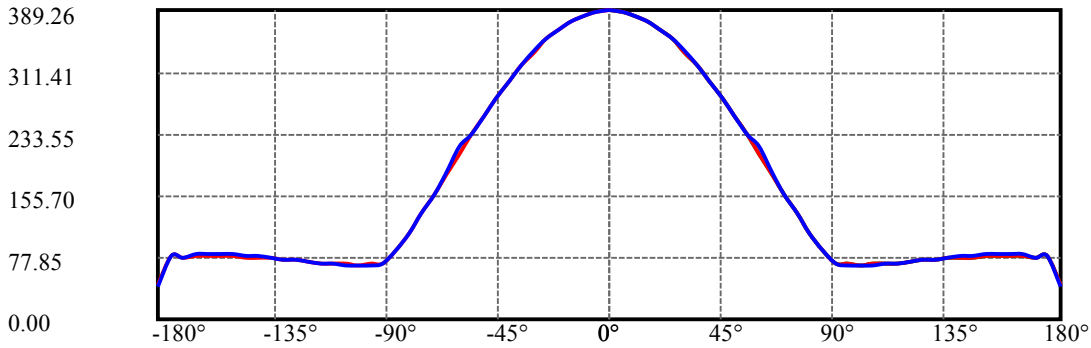
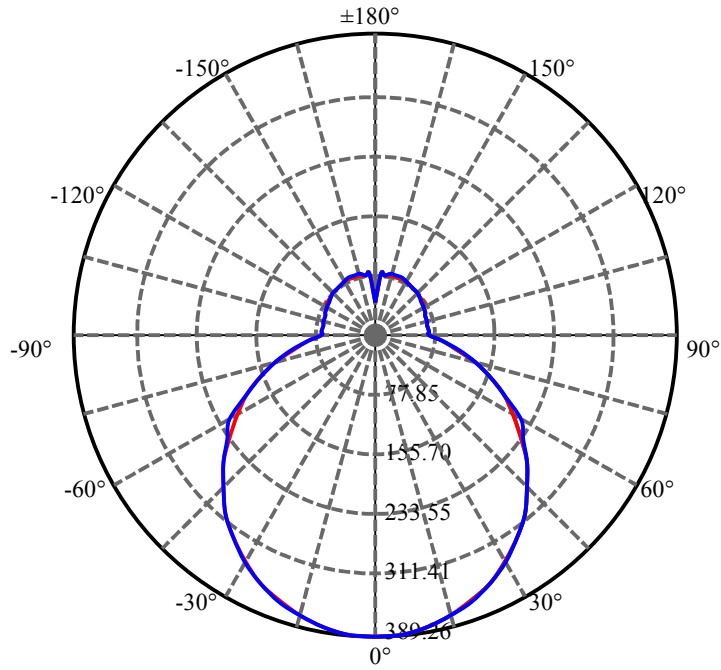
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	389.257	0.000	0	0.00%	0.00%
5.0	387.620	9.287	9.287	0.51%	0.51%
10.0	382.982	27.567	36.854	1.52%	2.04%
15.0	375.572	44.997	81.851	2.49%	4.53%
20.0	365.236	61.053	142.904	3.38%	7.90%
25.0	352.261	75.252	218.156	4.16%	12.06%
30.0	336.864	87.209	305.366	4.82%	16.89%
35.0	319.051	96.588	401.953	5.34%	22.23%
40.0	300.095	103.300	505.253	5.71%	27.94%
45.0	278.188	107.074	612.327	5.92%	33.86%
50.0	255.661	107.872	720.199	5.97%	39.83%
55.0	231.849	106.001	826.2	5.86%	45.69%
60.0	208.070	101.686	927.886	5.62%	51.31%
65.0	182.369	94.916	1022.802	5.25%	56.56%
70.0	157.737	86.117	1108.919	4.76%	61.32%
75.0	133.217	76.051	1184.97	4.21%	65.53%
80.0	110.079	65.099	1250.069	3.60%	69.13%
85.0	86.747	53.482	1303.551	2.96%	72.09%
90.0	70.598	43.082	1346.633	2.38%	74.47%
95.0	68.986	38.219	1384.853	2.11%	76.58%
100.0	68.844	37.452	1422.304	2.07%	78.65%
105.0	69.016	36.888	1459.192	2.04%	80.69%
110.0	69.555	36.220	1495.412	2.00%	82.70%
115.0	70.646	35.500	1530.912	1.96%	84.66%
120.0	72.295	34.749	1565.661	1.92%	86.58%
125.0	74.209	33.864	1599.525	1.87%	88.45%
130.0	75.797	32.616	1632.142	1.80%	90.26%
135.0	77.001	30.875	1663.017	1.71%	91.96%
140.0	78.183	28.733	1691.75	1.59%	93.55%
145.0	78.808	26.193	1717.943	1.45%	95.00%
150.0	79.577	23.323	1741.266	1.29%	96.29%
155.0	80.395	20.245	1761.511	1.12%	97.41%
160.0	81.465	16.976	1778.487	0.94%	98.35%
165.0	80.627	13.359	1791.846	0.74%	99.09%
170.0	78.058	9.413	1801.259	0.52%	99.61%
175.0	79.285	5.629	1806.887	0.31%	99.92%
180.0	41.647	1.446	1808.333	0.08%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	305.37	16.89%	16.89%
0-40	505.25	27.94%	27.94%
0-60	927.89	51.31%	51.31%
0-90	1346.63	74.47%	74.47%
0-120	1565.66	86.58%	86.58%
0-180	1808.33	100.00%	100.00%
60-90	418.75	23.16%	23.16%
90-120	219.03	12.11%	12.11%
90-130	285.51	15.79%	15.79%
90-150	394.63	21.82%	21.82%
90-180	460.25	25.45%	25.45%
0-103.30	1446.67	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	36.85
10-20	106.05
20-30	162.46
30-40	199.89
40-50	214.95
50-60	207.69
60-70	181.03
70-80	141.15
80-90	96.56
90-100	75.67
100-110	73.11
110-120	70.25
120-130	66.48
130-140	59.61
140-150	49.52
150-160	37.22
160-170	22.77
170-180	5.63



C0(Max): ———

C0/C180: ———

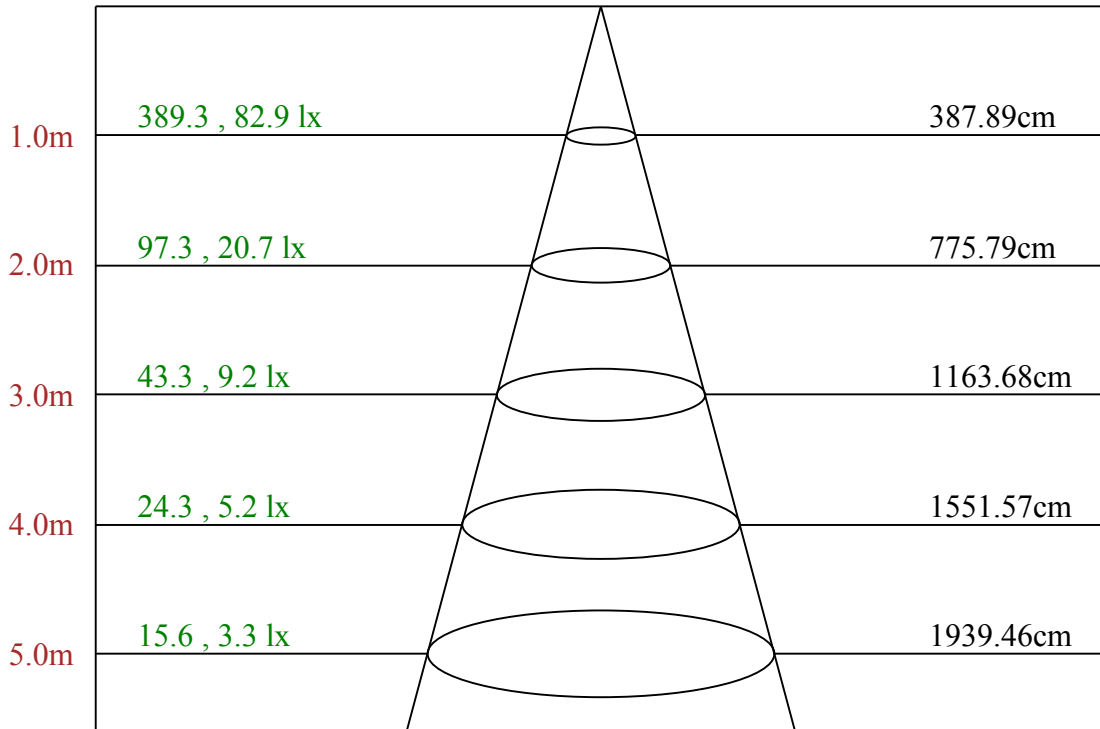
C90/C270: ———

Field angle(10%Imax):C0/180Left:0.0 Right:0.0

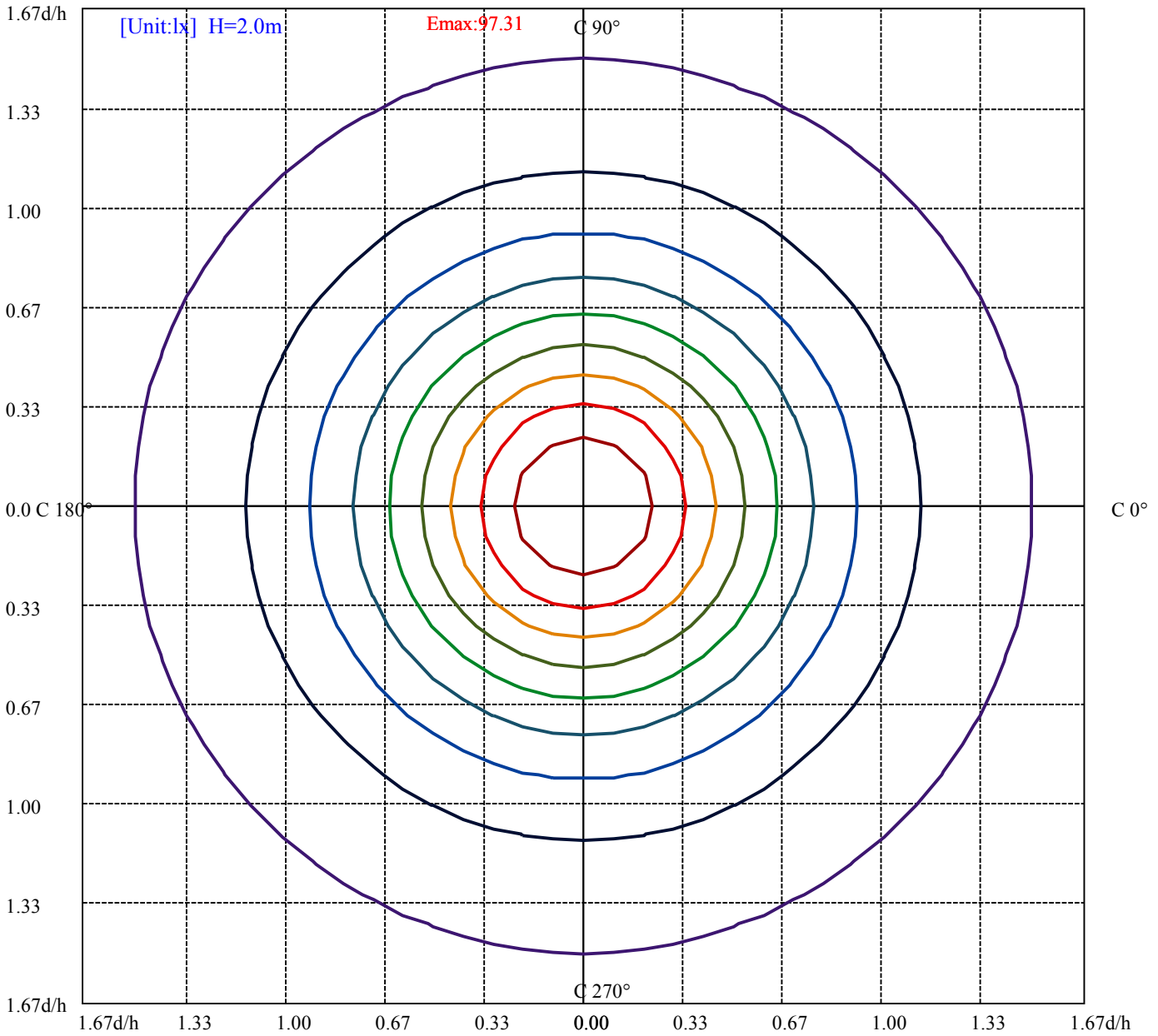
:C90/270Left:0.0 Right:0.0

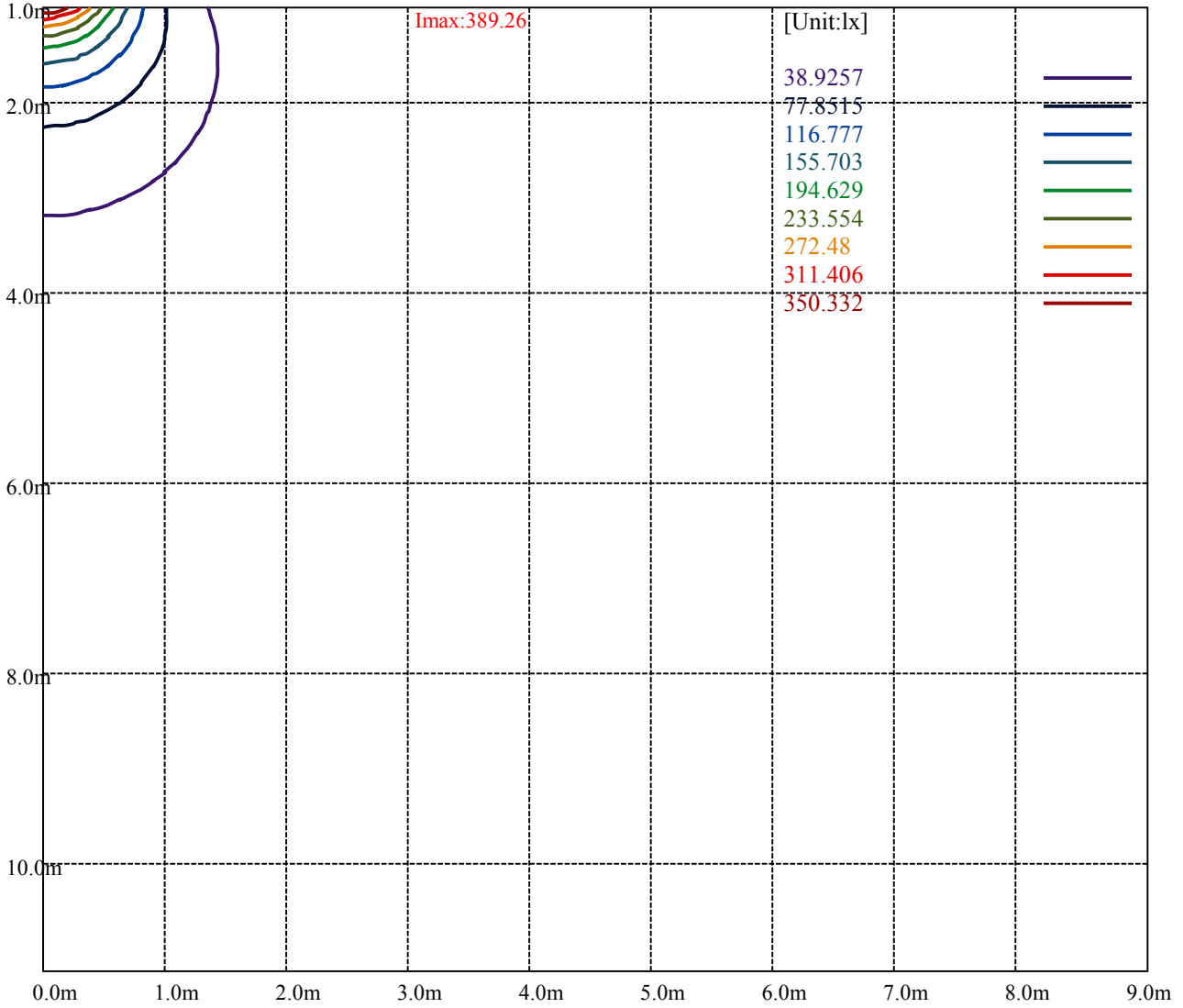
Beam Angle(50%Imax):C0/180Left:62.5 Right:62.5

:C90/270Left:63.3 Right:63.3



Max , Ave Beam angle of C0 plane 125.45





Luminance Table

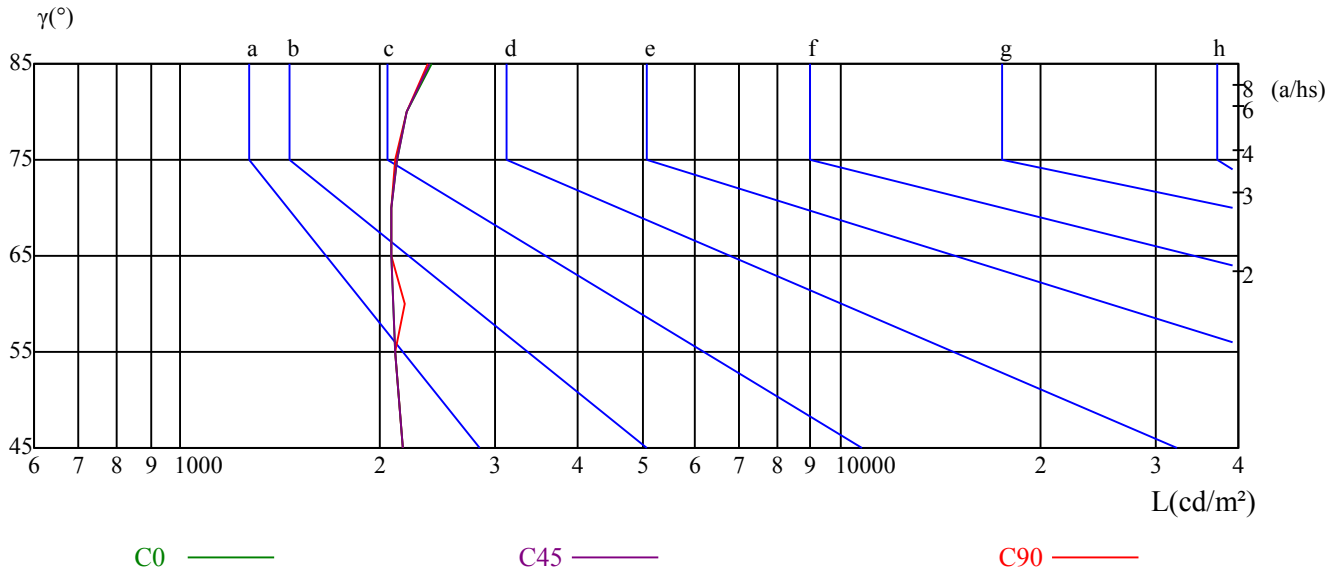
γ	45	50	55	60	65	70	75	80	85
C0	2164	2143	2111	2096	2080	2081	2127	2195	2401
C45	2168	2141	2113	2093	2087	2089	2121	2198	2390
C90	2168	2144	2118	2193	2084	2086	2112	2200	2376

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2711	2716	2720	3251	3227	3241	6283	6217	6254

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	1.13	1.13	1.13	1.07	1.07	1.07	0.97	0.97	0.97	0.87	0.87	0.87	0.79	0.79	0.79	0.74
1	0.95	0.91	0.86	0.91	0.86	0.82	0.82	0.78	0.75	0.73	0.71	0.68	0.66	0.64	0.62	0.58
2	0.82	0.75	0.69	0.78	0.71	0.66	0.70	0.65	0.60	0.63	0.59	0.55	0.57	0.53	0.50	0.47
3	0.72	0.63	0.56	0.68	0.60	0.54	0.61	0.55	0.50	0.55	0.50	0.46	0.49	0.45	0.42	0.39
4	0.63	0.54	0.47	0.60	0.52	0.45	0.54	0.47	0.42	0.49	0.43	0.39	0.44	0.39	0.35	0.32
5	0.56	0.47	0.40	0.53	0.45	0.39	0.48	0.41	0.36	0.44	0.38	0.33	0.39	0.34	0.31	0.28
6	0.50	0.41	0.35	0.48	0.39	0.33	0.43	0.36	0.31	0.39	0.33	0.29	0.35	0.31	0.27	0.24
7	0.45	0.36	0.30	0.43	0.35	0.29	0.39	0.32	0.27	0.36	0.30	0.25	0.32	0.27	0.24	0.21
8	0.41	0.33	0.27	0.39	0.31	0.26	0.36	0.29	0.24	0.33	0.27	0.23	0.30	0.25	0.21	0.19
9	0.37	0.29	0.24	0.36	0.28	0.23	0.33	0.26	0.22	0.30	0.24	0.20	0.27	0.22	0.19	0.17
10	0.34	0.27	0.21	0.33	0.26	0.21	0.30	0.24	0.20	0.28	0.22	0.18	0.25	0.21	0.17	0.15

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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	389.26	387.93	383.84	376.92	367.43	354.74	339.75	322.09	304.08
15.0	389.26	387.83	383.47	376.52	366.37	353.72	339.64	320.67	302.41
30.0	389.26	387.92	383.45	377.11	366.84	354.07	338.61	320.75	300.83
45.0	389.26	388.27	383.71	376.46	366.43	353.45	338.05	320.59	300.81
60.0	389.26	387.82	383.35	375.91	366.06	353.07	337.76	319.66	300.32
75.0	389.26	387.82	383.69	376.32	366.26	354.50	337.97	321.54	300.70
90.0	389.26	388.09	383.77	377.74	367.67	355.07	339.87	322.06	302.54
105.0	389.26	388.27	384.22	377.48	367.85	355.26	340.06	323.06	303.64
120.0	389.26	388.54	384.84	378.09	368.63	356.38	341.43	324.14	304.69
135.0	389.26	388.81	385.20	378.71	369.52	357.26	343.64	326.60	307.58
150.0	389.26	388.72	385.74	379.60	361.74	359.31	344.51	327.82	308.61
165.0	389.26	389.35	386.19	380.05	371.47	359.46	345.46	328.85	309.53
180.0	389.26	387.04	381.63	373.55	362.55	348.89	332.91	315.52	295.83
195.0	389.26	387.21	381.95	374.20	363.25	349.80	333.94	316.04	295.91
210.0	389.26	387.47	382.74	374.34	363.80	350.40	334.95	316.37	297.08
225.0	389.26	387.47	382.27	374.93	364.37	351.21	335.27	317.19	297.49
240.0	389.26	387.02	382.36	374.30	363.64	350.30	334.35	317.60	297.81
255.0	389.26	387.73	382.25	374.80	364.20	350.73	335.19	317.05	297.02
270.0	389.26	387.28	382.42	374.05	363.53	350.21	334.92	316.12	297.14
285.0	389.26	387.19	381.61	374.15	363.00	349.59	333.50	315.24	310.92
300.0	389.26	386.83	381.33	373.23	370.52	348.46	332.16	314.05	293.88
315.0	389.26	386.55	380.87	372.49	361.13	347.16	331.74	312.45	292.80
330.0	389.26	386.01	380.87	372.03	360.48	346.68	329.81	311.23	290.93
345.0	389.26	385.74	379.78	370.75	358.92	344.56	329.21	310.52	289.75
360.0	389.26	387.93	383.84	376.92	367.43	354.74	339.75	322.09	304.08
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	281.45	260.42	235.40	212.06	186.78	161.49	138.15	113.75	90.77
15.0	281.03	258.23	234.27	209.68	185.90	160.69	135.84	111.70	89.70
30.0	280.29	257.78	233.84	209.19	183.91	158.81	134.16	111.03	87.00
45.0	279.32	256.58	232.68	207.97	182.72	158.64	133.84	109.67	86.84
60.0	278.73	255.80	232.87	208.33	182.99	157.82	134.53	109.00	87.33
75.0	280.22	257.23	233.52	208.64	183.31	159.60	134.63	110.47	87.39
90.0	281.04	259.53	235.61	210.96	185.41	160.22	135.21	112.09	87.89
105.0	282.41	259.74	236.27	212.62	186.17	162.16	137.16	112.78	89.76
120.0	283.79	262.81	239.03	214.17	188.95	163.74	140.14	114.47	92.32
135.0	286.49	264.22	240.51	215.72	191.92	166.86	141.80	117.37	93.84
150.0	287.95	266.57	243.12	218.40	193.41	168.42	143.25	119.89	95.44
165.0	290.30	267.90	244.43	219.87	194.76	170.84	145.92	121.26	97.88
180.0	274.26	251.64	227.50	202.92	177.73	152.88	129.46	104.79	83.41
195.0	274.44	251.64	227.94	204.78	178.42	154.90	130.41	106.62	84.26
210.0	275.73	252.95	229.29	204.90	179.89	155.33	131.84	107.18	85.66
225.0	276.19	254.25	229.72	205.91	181.11	156.31	132.05	108.15	85.77
240.0	276.22	253.83	230.01	205.38	180.57	156.83	131.30	108.73	85.09
255.0	275.46	252.83	230.46	204.33	181.07	156.19	131.67	125.92	85.68
270.0	275.46	252.70	228.86	223.28	179.74	154.91	130.44	106.96	84.47
285.0	274.32	251.47	227.55	202.63	177.63	154.25	128.43	105.95	83.64
300.0	273.62	249.21	226.69	200.48	176.71	151.85	127.44	103.66	81.60
315.0	271.16	247.91	223.75	199.23	175.52	149.28	125.94	102.41	80.32
330.0	269.01	246.63	221.29	197.56	172.48	147.58	123.14	99.77	79.02
345.0	267.63	243.97	219.78	194.67	169.75	146.10	120.45	98.24	76.84
360.0	281.45	260.42	235.40	212.06	186.78	161.49	138.15	113.75	90.77

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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	70.81	68.68	68.50	68.50	69.12	70.10	71.87	74.09	76.04
15.0	69.39	68.41	68.14	68.23	68.68	69.92	71.79	73.75	75.62
30.0	68.69	67.88	67.79	67.97	68.33	69.58	71.37	73.42	75.48
45.0	68.13	67.59	67.50	67.50	68.22	69.38	71.35	73.32	75.20
60.0	68.16	67.44	67.26	67.35	67.89	69.06	71.03	73.09	74.88
75.0	68.80	67.36	67.36	67.36	68.08	69.16	70.86	73.02	75.00
90.0	69.09	67.38	67.20	67.47	67.83	68.91	70.98	72.78	74.67
105.0	69.70	67.45	67.45	67.45	67.90	68.89	70.78	72.67	74.47
120.0	71.51	67.91	67.64	67.55	68.18	69.08	70.70	72.95	74.30
135.0	72.75	68.15	67.97	68.06	68.33	69.23	70.68	73.02	74.19
150.0	74.96	68.47	68.11	68.20	68.47	69.28	70.63	72.80	74.06
165.0	76.21	68.80	68.35	68.44	68.62	69.44	70.79	72.87	74.49
180.0	69.83	69.39	69.21	69.56	70.19	71.16	72.85	74.36	75.78
195.0	70.10	69.66	69.30	69.75	70.28	71.44	73.04	74.64	76.07
210.0	70.21	69.67	69.58	69.85	70.38	71.37	72.97	74.58	76.10
225.0	70.46	69.83	69.83	69.92	70.46	71.62	71.80	74.75	76.19
240.0	70.58	69.95	69.77	69.95	70.58	71.56	73.00	74.70	76.31
255.0	70.68	70.06	69.88	70.15	70.59	71.76	73.38	74.91	76.61
270.0	70.80	70.26	70.17	70.26	70.89	71.97	73.68	75.12	76.83
285.0	70.87	70.42	70.42	70.42	71.14	72.22	73.93	75.46	77.08
300.0	70.88	70.34	70.34	70.79	71.42	72.50	74.12	75.74	77.37
315.0	70.77	70.32	70.23	70.59	71.40	72.57	74.28	76.17	77.44
330.0	70.63	70.27	70.27	70.63	71.27	72.71	74.60	76.41	77.49
345.0	70.34	69.98	69.98	70.43	71.06	72.60	74.58	76.39	77.47
360.0	70.81	68.68	68.50	68.50	69.12	70.10	71.87	74.09	76.04
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	76.75	78.26	79.24	80.74	79.68	79.86	83.23	77.19	72.23
15.0	76.96	77.58	79.37	79.72	79.81	80.17	84.00	78.21	72.69
30.0	77.08	77.80	77.98	79.94	79.94	81.19	84.05	79.05	73.33
45.0	76.45	77.44	78.51	79.86	80.48	82.18	84.51	79.23	73.41
60.0	76.13	77.03	78.73	80.52	81.86	82.13	84.37	79.18	73.53
75.0	75.80	77.06	78.77	82.27	81.91	82.36	84.79	79.13	73.92
90.0	75.66	76.92	78.98	82.04	82.04	82.76	85.28	79.52	74.58
105.0	75.64	76.99	78.43	81.84	81.93	83.19	84.99	79.33	75.19
120.0	75.29	76.73	78.09	80.07	82.23	83.67	84.48	79.08	77.00
135.0	75.18	75.90	78.16	78.97	81.85	84.20	83.84	78.34	78.25
150.0	75.42	76.05	77.76	79.20	80.29	85.07	83.17	77.58	79.75
165.0	75.21	76.66	78.10	78.38	80.27	84.52	82.35	77.11	80.45
180.0	76.22	77.73	76.57	77.46	80.66	80.21	74.80	79.15	85.00
195.0	77.14	77.85	77.05	77.14	79.28	79.99	75.36	80.61	84.53
210.0	77.44	77.89	77.44	77.80	79.14	78.69	75.48	79.85	84.23
225.0	77.89	78.96	78.51	78.78	80.30	79.05	76.01	79.95	83.62
240.0	78.01	79.18	79.09	79.89	81.15	80.43	76.40	79.36	83.12
255.0	78.41	80.20	79.76	80.74	81.46	81.73	77.15	78.77	83.08
270.0	78.09	80.51	80.51	80.87	81.41	81.05	77.55	77.46	82.94
285.0	78.52	80.32	80.68	80.14	79.87	80.59	77.89	76.09	82.65
300.0	78.81	80.25	81.06	79.17	78.72	80.61	78.09	75.47	82.32
315.0	78.88	80.14	80.14	78.16	78.25	79.96	78.25	74.37	82.30
330.0	78.93	79.84	79.11	77.76	78.39	80.56	78.93	74.60	82.36
345.0	78.10	79.10	79.37	78.38	78.56	80.99	80.09	74.76	82.35
360.0	76.75	78.26	79.24	80.74	79.68	79.86	83.23	77.19	72.23

Intensity data(cd)

C/γ(°)	180.0
0.0	84.83
15.0	84.09
30.0	83.51
45.0	83.26
60.0	82.94
75.0	82.81
90.0	82.76
105.0	82.65
120.0	82.86
135.0	83.03
150.0	83.35
165.0	83.43
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	84.83