
乐达凯

Client:

LumCAT: LEMW0518LAJUD**

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.010

LampCAT:

Current(A): 0.183

Lamp flux(lm): 1206.9

Power (W): 21.790

Number of Lamps: 1

PF: 0.993

Length(mm): 50

Width(mm): 20

Phm Type: C

Height(mm): 410

Photometric Results

Lumens(lm): 1206.87, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 55.39

Central intensity(cd): 1.840, Maximum intensity(cd): 342.229

Angle of maximum intensity: C=60.0 γ =90.0

Beam Angle(50%Imax): [C0/180]Total=300.0

[C90/270]Total=245.0

Field angle(10%Imax): [C0/180]Total=344.0

[C90/270]Total=309.0

Maximum s/h(1/2): C0_180=3.67 C90_270=3.05

Maximum s/h(1/4): C0_180=3.47 C90_270=2.93

Up flux rate of lamp(%): 48.28%

Down flux rate of lamp(%): 51.72%

Up flux rate of LUM(%): 48.28%

Down flux rate of LUM(%): 51.72%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 18.588%

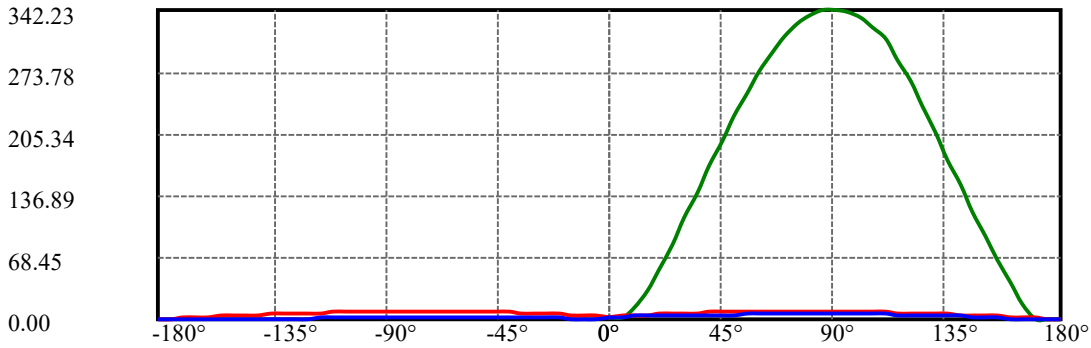
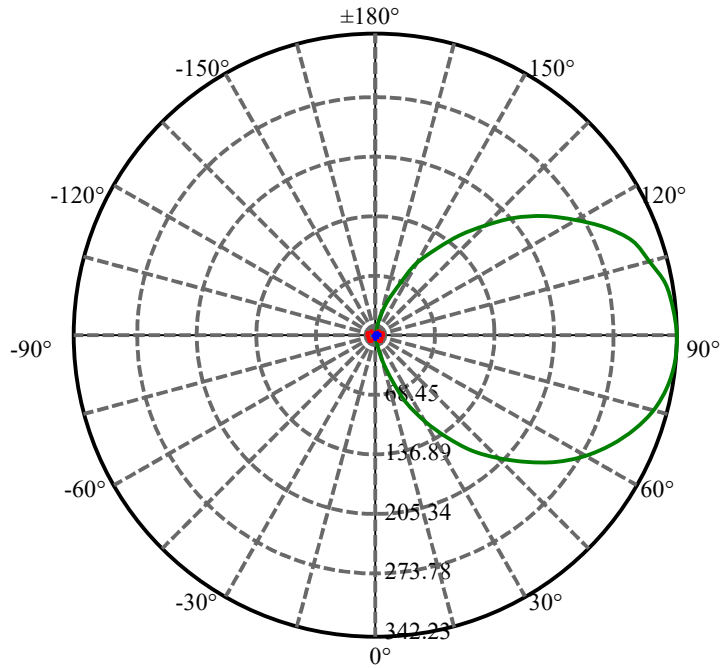
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1.840	0.000	0	0.00%	0.00%
5.0	3.757	0.067	0.067	0.01%	0.01%
10.0	10.388	0.506	0.573	0.04%	0.05%
15.0	20.661	1.842	2.415	0.15%	0.20%
20.0	30.742	4.236	6.651	0.35%	0.55%
25.0	42.204	7.651	14.302	0.63%	1.19%
30.0	53.933	12.166	26.468	1.01%	2.19%
35.0	64.168	17.391	43.859	1.44%	3.63%
40.0	74.364	23.113	66.972	1.92%	5.55%
45.0	84.522	29.419	96.391	2.44%	7.99%
50.0	93.990	36.071	132.462	2.99%	10.98%
55.0	102.385	42.698	175.161	3.54%	14.51%
60.0	110.358	49.175	224.336	4.07%	18.59%
65.0	117.641	55.427	279.763	4.59%	23.18%
70.0	123.774	61.128	340.891	5.06%	28.25%
75.0	129.026	66.078	406.969	5.48%	33.72%
80.0	132.744	70.042	477.011	5.80%	39.52%
85.0	135.427	72.869	549.879	6.04%	45.56%
90.0	135.964	74.309	624.188	6.16%	51.72%
95.0	135.006	74.194	698.382	6.15%	57.87%
100.0	133.012	72.827	771.209	6.03%	63.90%
105.0	128.489	69.970	841.179	5.80%	69.70%
110.0	122.586	65.627	906.806	5.44%	75.14%
115.0	114.000	59.905	966.711	4.96%	80.10%
120.0	104.417	53.097	1019.809	4.40%	84.50%
125.0	93.454	45.737	1065.546	3.79%	88.29%
130.0	82.912	38.348	1103.893	3.18%	91.47%
135.0	72.218	31.346	1135.24	2.60%	94.06%
140.0	61.331	24.728	1159.967	2.05%	96.11%
145.0	49.870	18.553	1178.52	1.54%	97.65%
150.0	38.524	13.017	1191.537	1.08%	98.73%
155.0	27.216	8.319	1199.856	0.69%	99.42%
160.0	16.674	4.603	1204.46	0.38%	99.80%
165.0	6.785	1.933	1206.393	0.16%	99.96%
170.0	0.805	0.450	1206.843	0.04%	100.00%
175.0	0.000	0.029	1206.872	0.00%	100.00%
180.0	0.000	0.000	1206.872	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	26.47	2.19%	2.19%
0-40	66.97	5.55%	5.55%
0-60	224.34	18.59%	18.59%
0-90	624.19	51.72%	51.72%
0-120	1019.81	84.50%	84.50%
0-180	1206.87	100.00%	100.00%
60-90	399.85	33.13%	33.13%
90-120	395.62	32.78%	32.78%
90-130	479.71	39.75%	39.75%
90-150	567.35	47.01%	47.01%
90-180	582.68	48.28%	48.28%
0-114.90	965.50	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	0.57
10-20	6.08
20-30	19.82
30-40	40.50
40-50	65.49
50-60	91.87
60-70	116.55
70-80	136.12
80-90	147.18
90-100	147.02
100-110	135.60
110-120	113.00
120-130	84.08
130-140	56.07
140-150	31.57
150-160	12.92
160-170	2.38
170-180	0.03



C60(Max): ———

C0/C180: ———

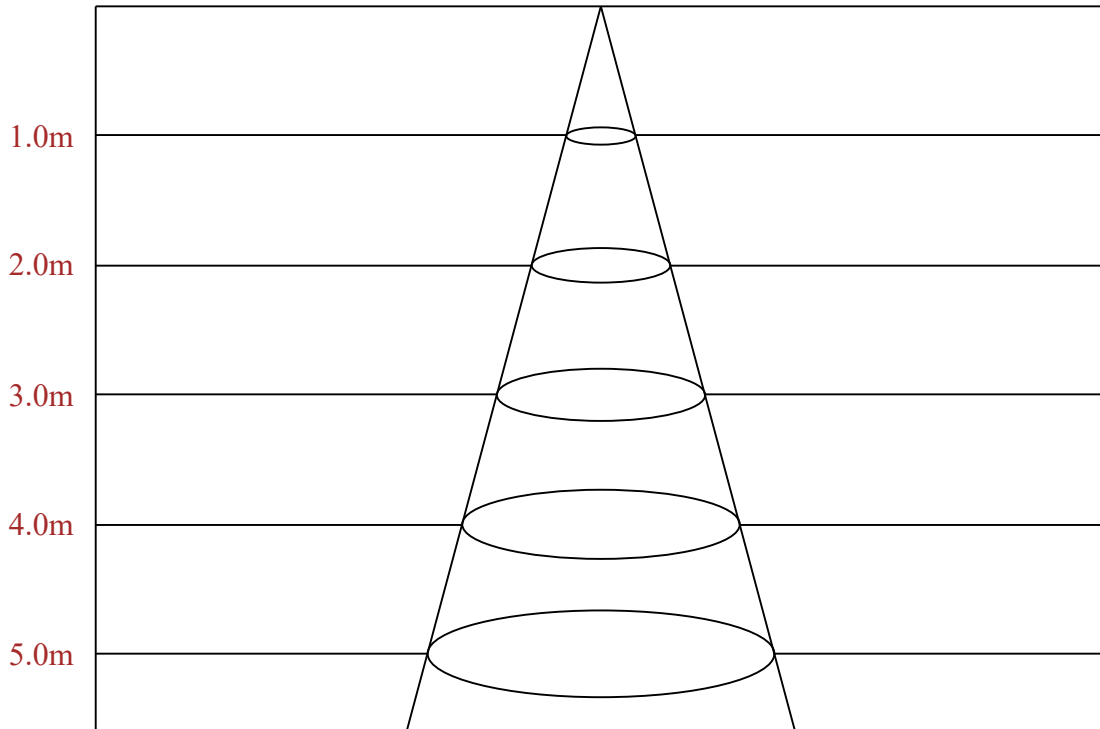
C90/C270: ———

Field angle(10%Imax):C0/180Left:272.0 Right:72.0

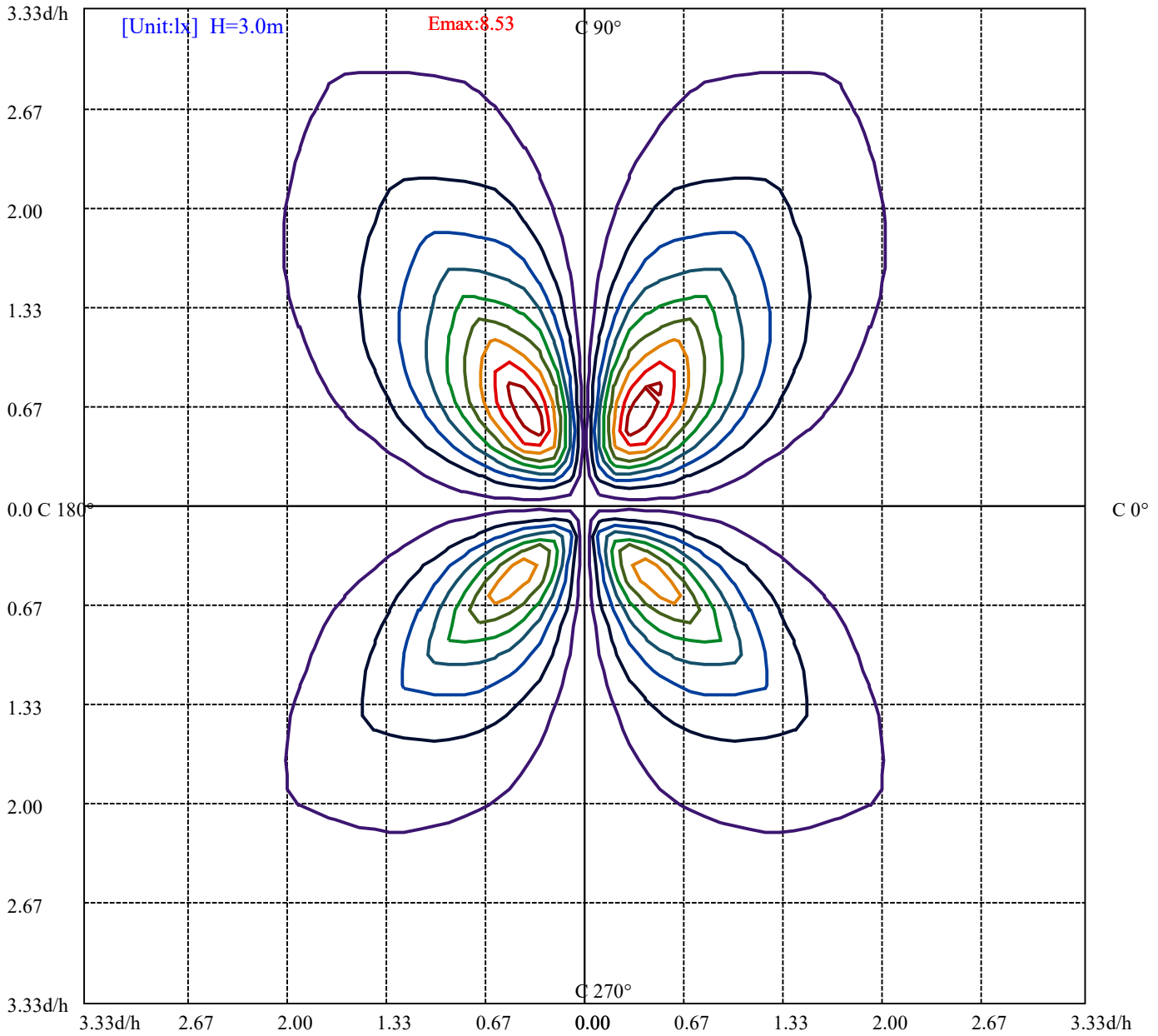
:C90/270Left:257.0 Right:52.0

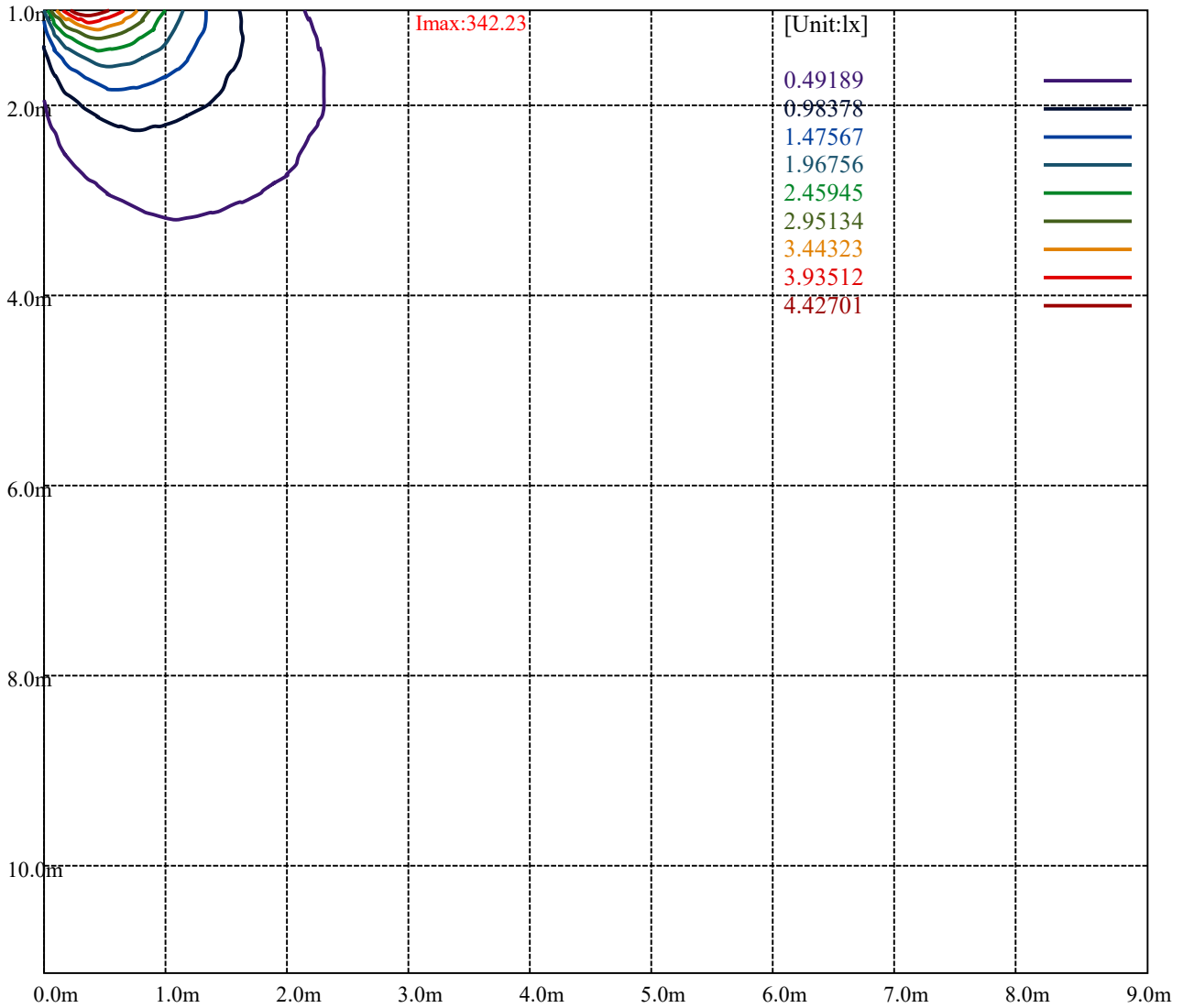
Beam Angle(50%Imax):C0/180Left:250.0 Right:50.0

:C90/270Left:205.0 Right:40.0



Max , Ave Beam angle of C60 plane 335.59





Luminance Table

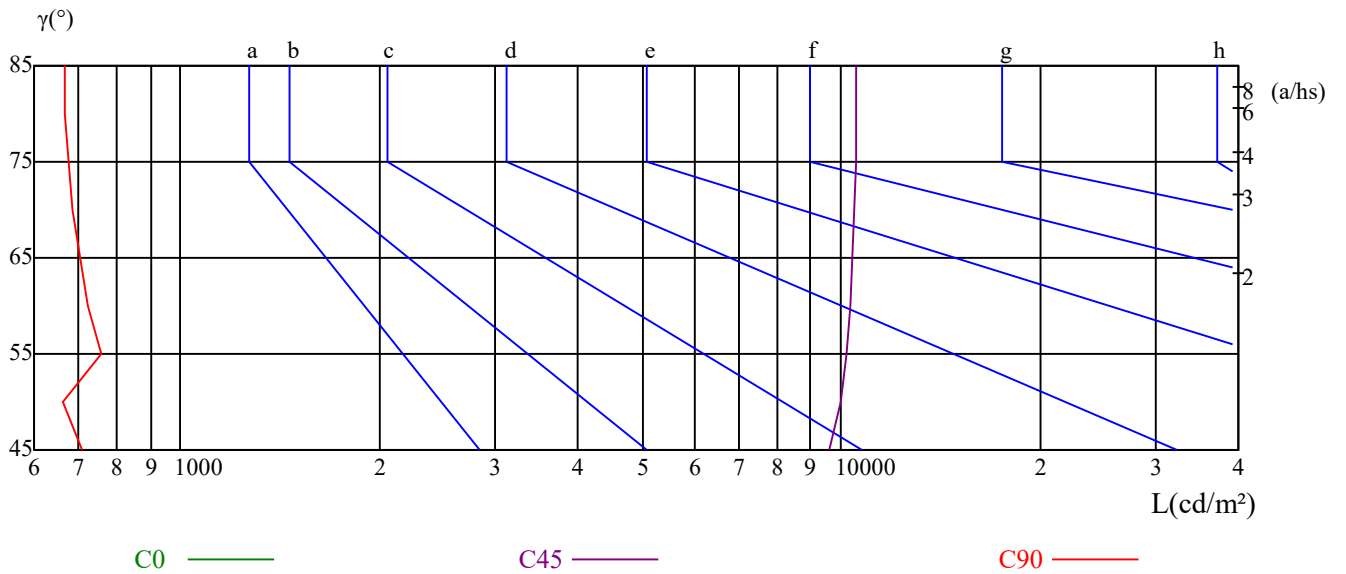
γ	45	50	55	60	65	70	75	80	85
C0	514	507	477	454	436	422	413	407	404
C45	9592	9973	10191	10358	10415	10474	10515	10519	10557
C90	707	664	757	726	703	686	675	669	669

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
19592	8707	457135	31990	14218	797983	94999	47500	2440951

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	1.08	1.08	1.08	0.99	0.99	0.99	0.84	0.84	0.84	0.70	0.70	0.70	0.58	0.58	0.58	0.52
1	0.85	0.79	0.73	0.78	0.72	0.67	0.65	0.60	0.56	0.52	0.49	0.46	0.41	0.39	0.36	0.31
2	0.71	0.62	0.55	0.65	0.57	0.50	0.53	0.47	0.42	0.42	0.38	0.34	0.33	0.29	0.26	0.21
3	0.60	0.50	0.43	0.55	0.46	0.39	0.45	0.38	0.32	0.36	0.30	0.26	0.27	0.23	0.19	0.15
4	0.52	0.42	0.34	0.47	0.38	0.31	0.39	0.31	0.26	0.30	0.25	0.20	0.23	0.19	0.15	0.11
5	0.45	0.36	0.28	0.41	0.33	0.26	0.34	0.27	0.21	0.27	0.21	0.17	0.20	0.16	0.12	0.09
6	0.40	0.31	0.24	0.37	0.28	0.22	0.30	0.23	0.18	0.24	0.18	0.14	0.18	0.13	0.10	0.07
7	0.36	0.27	0.20	0.33	0.24	0.18	0.27	0.20	0.15	0.21	0.16	0.12	0.16	0.12	0.08	0.05
8	0.32	0.23	0.17	0.29	0.21	0.16	0.24	0.17	0.13	0.19	0.14	0.10	0.14	0.10	0.07	0.04
9	0.29	0.21	0.15	0.27	0.19	0.14	0.22	0.16	0.11	0.17	0.12	0.09	0.13	0.09	0.06	0.04
10	0.26	0.18	0.13	0.24	0.17	0.12	0.20	0.14	0.10	0.16	0.11	0.07	0.12	0.08	0.05	0.03

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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	1.84	2.76	3.68	4.60	5.52	6.44	6.44	7.36	7.36
15.0	1.84	3.68	6.44	11.04	16.56	22.08	27.60	33.12	36.80
30.0	1.84	3.68	10.12	21.16	34.04	48.76	62.56	73.60	84.64
45.0	1.84	3.68	13.80	31.28	51.52	72.68	95.68	116.84	138.00
60.0	1.84	2.76	11.04	32.20	57.96	86.48	116.84	146.28	178.47
75.0	1.84	2.76	3.68	7.36	13.80	20.24	28.52	36.80	45.08
90.0	1.84	2.76	3.68	4.60	4.60	4.60	4.60	4.60	4.60
105.0	1.84	2.76	8.28	26.68	52.44	80.04	112.24	143.52	177.55
120.0	1.84	2.76	12.88	31.28	54.28	80.04	107.64	135.24	161.91
135.0	1.84	3.68	11.04	25.76	41.40	59.80	92.92	97.52	114.08
150.0	1.84	3.68	7.36	14.72	23.92	33.12	43.24	52.44	60.72
165.0	1.84	2.76	4.60	6.44	8.28	11.04	12.88	15.64	17.48
180.0	1.84	3.68	4.60	5.52	6.44	6.44	7.36	7.36	8.28
195.0	1.84	4.60	9.20	14.72	20.24	25.76	30.36	34.04	37.72
210.0	1.84	6.44	15.64	28.52	41.40	54.28	65.32	76.36	84.64
225.0	1.84	7.36	22.08	40.48	59.80	80.04	96.60	115.92	135.24
240.0	1.84	4.60	21.16	41.40	51.52	60.72	69.00	77.28	85.56
255.0	1.84	0.92	2.76	6.44	9.20	11.96	14.72	16.56	19.32
270.0	1.84	0.92	0.92	0.92	1.84	1.84	1.84	1.84	1.84
285.0	1.84	1.84	13.80	30.36	39.56	48.76	58.88	68.08	69.92
300.0	1.84	5.52	22.08	42.32	46.00	66.24	78.20	90.16	102.12
315.0	1.84	7.36	19.32	35.88	52.44	72.68	89.24	107.64	122.36
330.0	1.84	5.52	13.80	22.08	32.20	43.24	52.44	60.72	68.08
345.0	1.84	3.68	7.36	10.12	12.88	15.64	19.32	21.16	23.00
360.0	1.84	2.76	3.68	4.60	5.52	6.44	6.44	7.36	7.36
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	7.36	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28
15.0	40.48	43.24	45.08	46.92	48.76	50.60	50.60	51.52	52.44
30.0	92.92	99.36	104.88	108.56	112.24	115.00	116.84	117.76	118.68
45.0	157.31	176.63	191.35	205.15	215.27	223.55	229.99	232.75	234.59
60.0	206.99	236.43	264.03	289.79	312.79	330.27	345.91	355.11	359.71
75.0	54.28	62.56	71.76	80.04	88.32	93.84	98.44	101.20	103.96
90.0	4.60	4.60	5.52	5.52	5.52	5.52	5.52	5.52	5.52
105.0	211.59	247.47	278.75	306.35	334.87	356.03	376.27	388.23	394.67
120.0	187.67	212.51	237.35	259.43	278.75	295.31	309.11	317.39	322.91
135.0	131.56	146.28	159.15	169.27	176.63	183.07	187.67	191.35	194.11
150.0	69.00	78.20	80.04	82.80	86.48	88.32	90.16	92.00	92.92
165.0	20.24	21.16	23.00	23.92	25.76	26.68	27.60	27.60	28.52
180.0	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28
195.0	40.48	43.24	45.08	46.92	48.76	50.60	51.52	52.44	52.44
210.0	91.08	97.52	102.12	105.80	109.48	113.16	115.92	117.76	118.68
225.0	151.79	167.43	179.39	192.27	201.47	210.67	218.03	222.63	225.39
240.0	90.16	94.76	95.68	101.20	106.72	117.76	130.64	143.52	153.63
255.0	22.08	24.84	28.52	33.12	35.88	37.72	38.64	36.80	38.64
270.0	1.84	1.84	1.84	1.84	1.84	1.84	1.84	2.76	2.76
285.0	86.48	95.68	104.88	122.36	138.00	149.96	161.91	173.87	183.07
300.0	115.00	129.72	149.96	166.51	183.07	198.71	211.59	222.63	229.99
315.0	138.00	150.88	161.91	171.11	179.39	185.83	190.43	194.11	196.87
330.0	74.52	79.12	82.80	85.56	88.32	90.16	92.00	92.92	93.84
345.0	24.84	25.76	27.60	27.60	28.52	29.44	29.44	29.44	30.36
360.0	7.36	8.28	8.28	8.28	8.28	8.28	8.28	8.28	8.28

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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	8.28	8.28	8.28	8.28	8.28	7.36	7.36	7.36	6.44
15.0	52.44	51.52	51.52	50.60	49.68	47.84	45.08	43.24	39.56
30.0	118.68	117.76	116.84	115.00	112.24	108.56	103.04	97.52	90.16
45.0	235.51	234.59	231.83	226.31	220.79	208.83	195.95	177.55	158.23
60.0	360.63	357.87	351.43	340.39	325.67	301.75	274.15	244.71	214.35
75.0	103.96	103.04	101.20	98.44	93.84	88.32	80.96	73.60	64.40
90.0	5.52	5.52	5.52	5.52	5.52	4.60	4.60	4.60	4.60
105.0	397.43	393.75	387.31	372.59	356.03	328.43	296.23	264.03	230.91
120.0	323.83	321.07	316.47	307.27	294.39	274.15	251.15	225.39	197.79
135.0	195.95	195.95	194.11	190.43	184.91	175.71	164.67	150.88	136.16
150.0	93.84	92.92	92.92	91.08	89.24	85.56	81.88	77.28	70.84
165.0	28.52	28.52	28.52	27.60	27.60	26.68	24.84	23.92	22.08
180.0	8.28	8.28	8.28	7.36	7.36	7.36	6.44	6.44	5.52
195.0	52.44	52.44	51.52	50.60	48.76	46.00	43.24	39.56	36.80
210.0	118.68	117.76	116.84	114.08	110.40	104.88	98.44	92.00	83.72
225.0	228.15	227.23	224.47	218.03	208.83	195.95	191.35	162.83	144.44
240.0	155.47	154.55	157.31	145.36	129.72	112.24	92.92	77.28	68.08
255.0	36.80	34.04	29.44	25.76	22.08	19.32	14.72	9.20	6.44
270.0	2.76	2.76	1.84	1.84	1.84	1.84	0.92	0.92	0.92
285.0	184.91	182.15	175.71	161.91	144.44	123.28	103.04	83.72	72.68
300.0	231.83	231.83	227.23	218.95	203.31	184.91	162.83	140.76	119.60
315.0	196.87	195.95	193.19	188.59	182.15	172.03	158.23	144.44	127.88
330.0	92.92	92.92	92.00	90.16	88.32	84.64	80.04	73.60	68.08
345.0	29.44	29.44	28.52	27.60	26.68	25.76	23.92	22.08	20.24
360.0	8.28	8.28	8.28	8.28	8.28	7.36	7.36	7.36	6.44
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	6.44	5.52	5.52	4.60	3.68	2.76	2.76	1.84	0.00
15.0	36.80	33.12	28.52	23.92	18.40	12.88	7.36	2.76	0.00
30.0	81.88	72.68	62.56	50.60	37.72	24.84	13.80	3.68	0.00
45.0	138.00	116.84	97.52	76.36	56.12	35.88	18.40	1.84	0.00
60.0	183.07	153.63	124.20	95.68	69.00	42.32	20.24	0.92	0.00
75.0	56.12	47.84	38.64	29.44	22.08	13.80	5.52	0.00	0.00
90.0	4.60	3.68	2.76	2.76	1.84	0.92	0.00	0.00	0.00
105.0	195.03	160.07	126.96	95.68	67.16	39.56	16.56	0.00	0.00
120.0	171.11	142.60	115.92	89.24	61.64	36.80	14.72	0.92	0.00
135.0	120.52	103.04	85.56	68.08	49.68	32.20	15.64	2.76	0.00
150.0	64.40	57.96	48.76	38.64	28.52	19.32	10.12	1.84	0.00
165.0	20.24	18.40	15.64	12.88	10.12	7.36	4.60	1.84	0.00
180.0	5.52	4.60	4.60	3.68	2.76	2.76	1.84	0.92	0.00
195.0	32.20	27.60	23.00	18.40	12.88	11.04	2.76	0.00	0.00
210.0	74.52	71.76	52.44	39.56	26.68	14.72	4.60	0.00	0.00
225.0	125.12	102.12	80.96	60.72	39.56	19.32	3.68	0.00	0.00
240.0	58.88	50.60	41.40	31.28	19.32	11.04	1.84	0.00	0.00
255.0	4.60	2.76	1.84	0.92	0.00	0.00	0.00	0.00	0.00
270.0	0.92	0.92	0.92	0.00	0.00	0.00	0.00	0.00	0.00
285.0	62.56	52.44	43.24	33.12	23.92	15.64	1.84	0.00	0.00
300.0	102.12	85.56	68.08	53.36	37.72	23.00	4.60	0.00	0.00
315.0	111.32	92.00	74.52	54.28	36.80	18.40	5.52	0.00	0.00
330.0	59.80	51.52	41.40	32.20	21.16	11.96	4.60	0.00	0.00
345.0	17.48	14.72	11.96	9.20	6.44	3.68	1.84	0.00	0.00
360.0	6.44	5.52	5.52	4.60	3.68	2.76	2.76	1.84	0.00

Intensity data(cd)

C/γ(°)	180.0
0.0	0.00
15.0	0.00
30.0	0.00
45.0	0.00
60.0	0.00
75.0	0.00
90.0	0.00
105.0	0.00
120.0	0.00
135.0	0.00
150.0	0.00
165.0	0.00
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	0.00