
乐达凯

Client:

LumCAT: LEMW0518LAJUD**

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.185

Lamp flux(lm): 1082.9

Power (W): 22.010

Number of Lamps: 1

PF: 0.994

Length(mm): 50

Width(mm): 20

Phm Type: C

Height(mm): 410

Photometric Results

Lumens(lm): 1082.92, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 49.20

Central intensity(cd): 1.840, Maximum intensity(cd): 307.270

Angle of maximum intensity: C=60.0 γ =90.0

Beam Angle(50%Imax): [C0/180]Total=305.0

[C90/270]Total=145.0

Field angle(10%Imax): [C0/180]Total=342.0

[C90/270]Total=309.0

Maximum s/h(1/2): C0_180=120.00 C90_270=2.78

Maximum s/h(1/4): C0_180=3.30 C90_270=2.72

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 : 18.595%

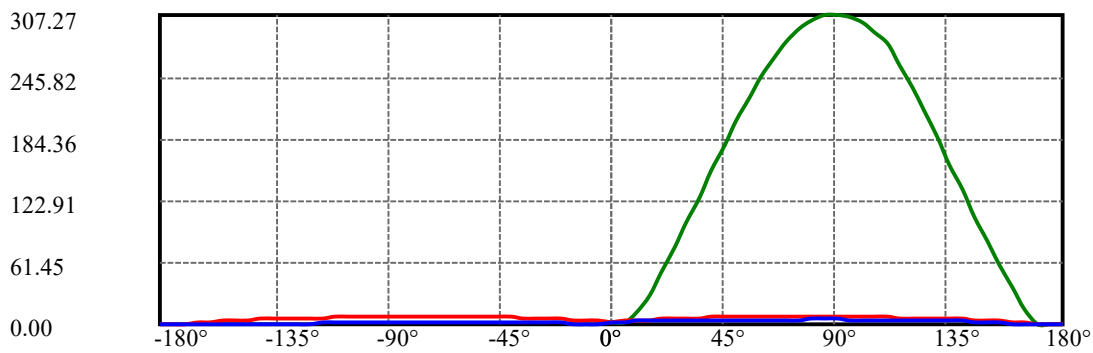
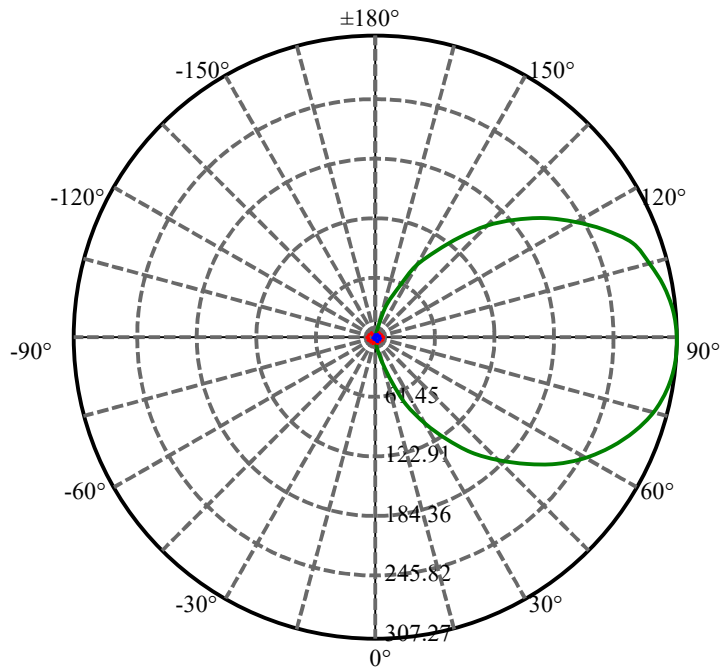
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1.840	0.000	0	0.00%	0.00%
5.0	3.412	0.063	0.063	0.01%	0.01%
10.0	9.391	0.458	0.521	0.04%	0.05%
15.0	18.399	1.649	2.169	0.15%	0.20%
20.0	27.522	3.785	5.954	0.35%	0.55%
25.0	37.987	6.871	12.825	0.63%	1.18%
30.0	48.375	10.929	23.754	1.01%	2.19%
35.0	57.613	15.607	39.361	1.44%	3.63%
40.0	66.774	20.753	60.114	1.92%	5.55%
45.0	75.859	26.410	86.524	2.44%	7.99%
50.0	84.331	32.369	118.893	2.99%	10.98%
55.0	91.882	38.314	157.207	3.54%	14.52%
60.0	99.165	44.160	201.367	4.08%	18.59%
65.0	105.528	49.761	251.129	4.60%	23.19%
70.0	110.856	54.790	305.919	5.06%	28.25%
75.0	115.725	59.225	365.143	5.47%	33.72%
80.0	119.213	62.863	428.006	5.80%	39.52%
85.0	121.436	65.390	493.396	6.04%	45.56%
90.0	121.973	66.647	560.043	6.15%	51.72%
95.0	121.168	66.574	626.617	6.15%	57.86%
100.0	119.251	65.328	691.944	6.03%	63.90%
105.0	115.341	62.770	754.715	5.80%	69.69%
110.0	110.090	58.924	813.639	5.44%	75.13%
115.0	102.232	53.761	867.4	4.96%	80.10%
120.0	93.645	47.618	915.018	4.40%	84.50%
125.0	83.794	41.015	956.032	3.79%	88.28%
130.0	74.518	34.422	990.455	3.18%	91.46%
135.0	64.973	28.186	1018.641	2.60%	94.06%
140.0	55.083	22.229	1040.87	2.05%	96.12%
145.0	44.695	16.647	1057.517	1.54%	97.65%
150.0	34.537	11.668	1069.185	1.08%	98.73%
155.0	24.418	7.461	1076.646	0.69%	99.42%
160.0	14.911	4.125	1080.77	0.38%	99.80%
165.0	6.018	1.725	1082.495	0.16%	99.96%
170.0	0.690	0.398	1082.893	0.04%	100.00%
175.0	0.000	0.025	1082.918	0.00%	100.00%
180.0	0.000	0.000	1082.918	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	23.75	2.19%	2.19%
0-40	60.11	5.55%	5.55%
0-60	201.37	18.59%	18.59%
0-90	560.04	51.72%	51.72%
0-120	915.02	84.50%	84.50%
0-180	1082.92	100.00%	100.00%
60-90	358.68	33.12%	33.12%
90-120	354.97	32.78%	32.78%
90-130	430.41	39.75%	39.75%
90-150	509.14	47.02%	47.02%
90-180	522.87	48.28%	48.28%
0-114.90	866.33	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	0.52
10-20	5.43
20-30	17.80
30-40	36.36
40-50	58.78
50-60	82.47
60-70	104.55
70-80	122.09
80-90	132.04
90-100	131.90
100-110	121.69
110-120	101.38
120-130	75.44
130-140	50.42
140-150	28.31
150-160	11.59
160-170	2.12
170-180	0.02



C60(Max): ———

C0/C180: ———

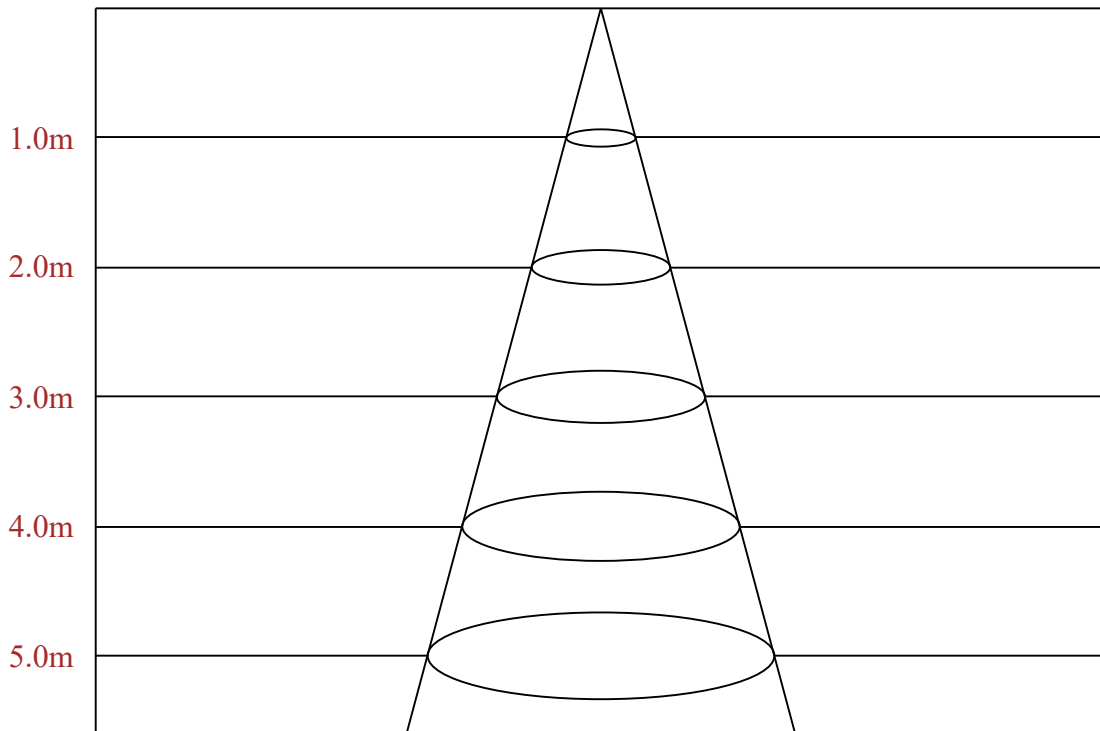
C90/C270: ———

Field angle(10%Imax):C0/180Left:276.0 Right:66.0

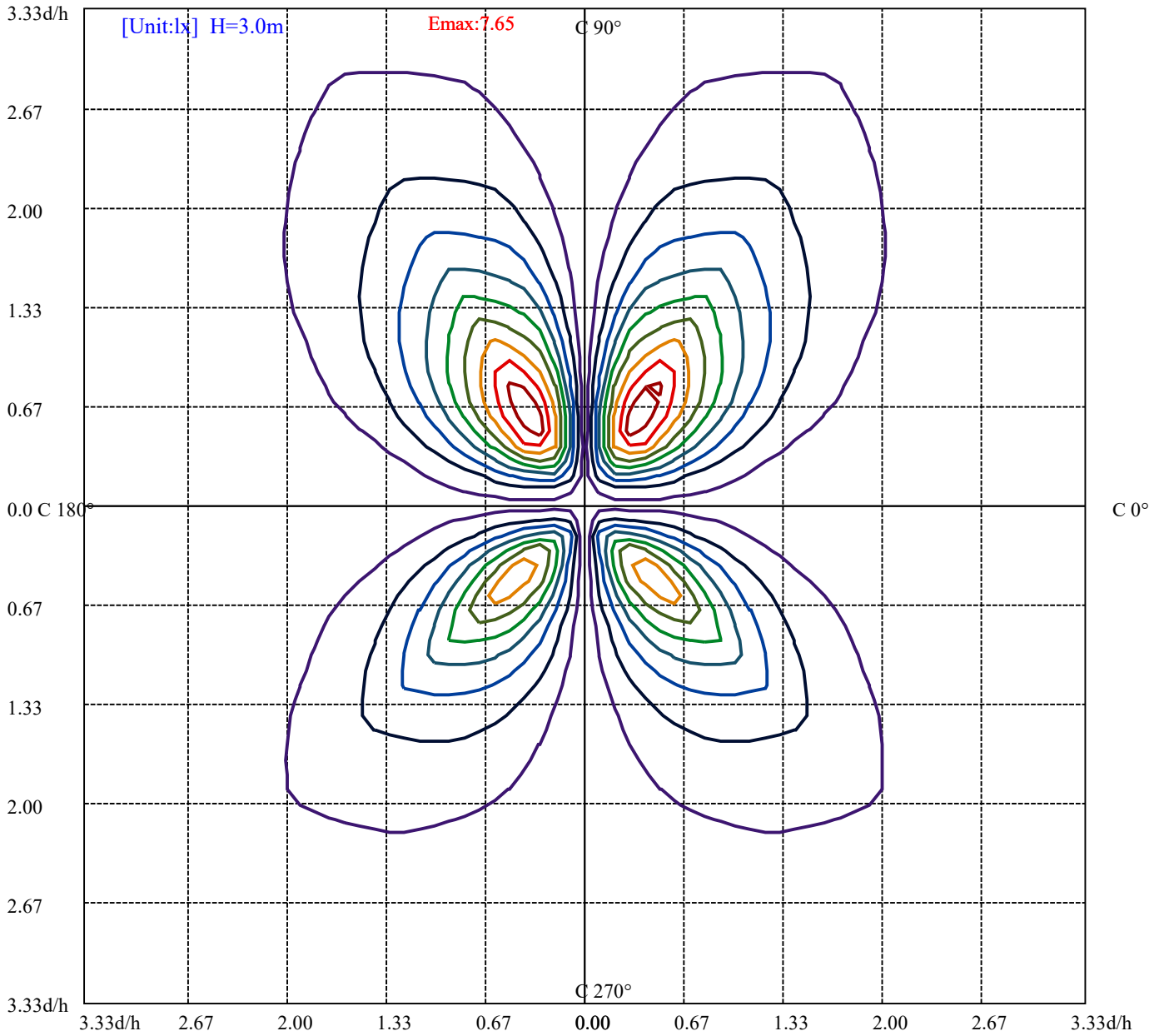
:C90/270Left:237.0 Right:72.0

Beam Angle(50%Imax):C0/180Left:257.5 Right:47.5

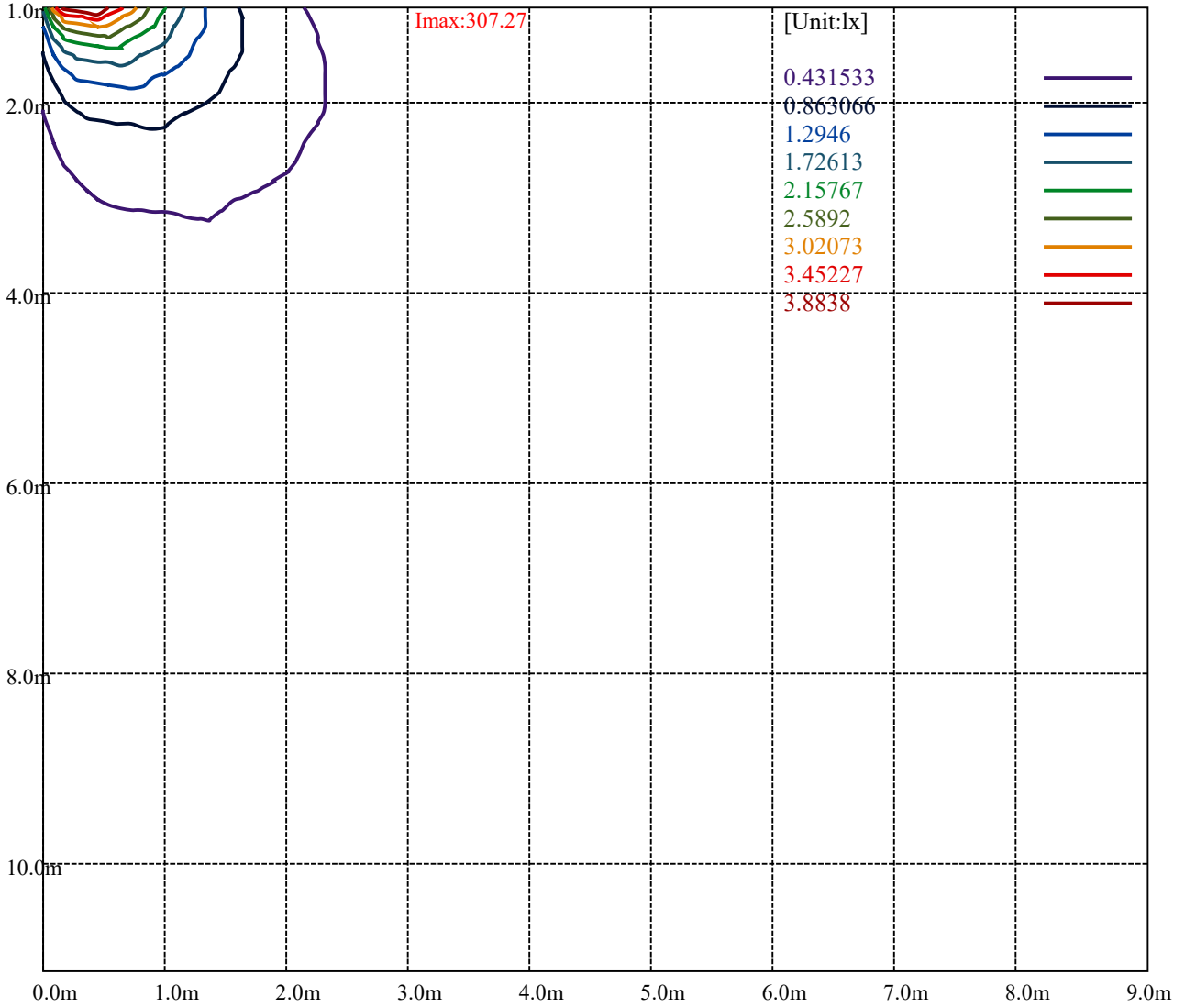
:C90/270Left:85.0 Right:60.0



Max , Ave Beam angle of C60 plane 335.94



- (10%Emax) 0.7651666
- (20%Emax) 1.530333
- (30%Emax) 2.2955
- (40%Emax) 3.060667
- (50%Emax) 3.825833
- (60%Emax) 4.591
- (70%Emax) 5.356167
- (80%Emax) 6.121333
- (90%Emax) 6.8865



Luminance Table

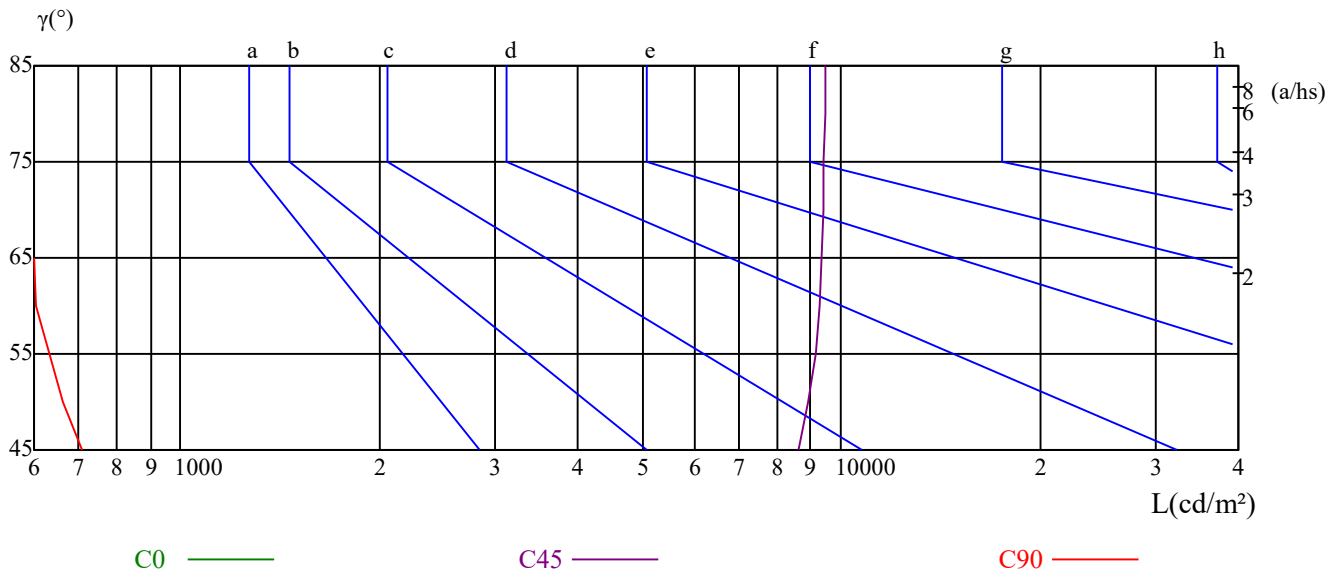
γ	45	50	55	60	65	70	75	80	85
C0	454	450	424	403	387	375	367	361	359
C45	8615	8950	9174	9314	9339	9384	9426	9446	9470
C90	707	664	631	605	586	572	562	669	669

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
17415	7619	410333	28436	12441	715341	84444	42222	2190259

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	3.68	4.60	5.52	5.52	6.44	6.44
15.0	1.84	2.76	5.52	10.12	14.72	20.24	24.84	29.44	33.12
30.0	1.84	3.68	9.20	19.32	30.36	43.24	56.12	66.24	76.36
45.0	1.84	2.76	11.96	27.60	46.00	65.32	85.56	104.88	123.28
60.0	1.84	2.76	10.12	29.44	52.44	78.20	104.88	131.56	160.07
75.0	1.84	2.76	3.68	6.44	11.96	18.40	25.76	33.12	40.48
90.0	1.84	2.76	3.68	3.68	4.60	3.68	3.68	4.60	4.60
105.0	1.84	1.84	7.36	23.92	46.92	71.76	101.20	128.80	159.15
120.0	1.84	2.76	11.96	27.60	48.76	72.68	96.60	121.44	145.36
135.0	1.84	2.76	10.12	23.00	36.80	53.36	82.80	87.40	102.12
150.0	1.84	2.76	6.44	12.88	21.16	30.36	38.64	46.92	54.28
165.0	1.84	2.76	3.68	5.52	7.36	10.12	11.96	13.80	15.64
180.0	1.84	3.68	4.60	5.52	5.52	6.44	6.44	6.44	7.36
195.0	1.84	4.60	8.28	12.88	17.48	23.00	27.60	30.36	34.04
210.0	1.84	5.52	14.72	24.84	36.80	48.76	58.88	69.00	75.44
225.0	1.84	6.44	19.32	35.88	53.36	71.76	87.40	103.96	121.44
240.0	1.84	3.68	19.32	36.80	46.00	54.28	62.56	69.92	76.36
255.0	1.84	0.92	2.76	5.52	8.28	11.04	12.88	14.72	17.48
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	11.96	26.68	35.88	44.16	52.44	60.72	62.56
300.0	1.84	5.52	20.24	37.72	41.40	58.88	69.92	80.96	92.00
315.0	1.84	6.44	17.48	32.20	46.92	65.32	80.04	96.60	110.40
330.0	1.84	5.52	11.96	20.24	29.44	38.64	46.92	54.28	61.64
345.0	1.84	3.68	6.44	9.20	11.96	14.72	16.56	19.32	21.16
360.0	1.84	2.76	3.68	3.68	4.60	5.52	5.52	6.44	6.44
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	6.44	7.36	7.36	7.36	7.36	7.36	7.36	7.36	7.36
15.0	35.88	38.64	40.48	42.32	44.16	45.08	46.00	46.00	46.92
30.0	82.80	89.24	93.84	97.52	100.28	103.04	104.88	105.80	105.80
45.0	141.68	158.23	172.03	184.91	193.19	200.55	206.07	208.83	210.67
60.0	185.83	212.51	237.35	260.35	280.59	296.23	310.03	318.31	322.91
75.0	48.76	56.12	64.40	71.76	79.12	83.72	88.32	91.08	92.92
90.0	4.60	4.60	4.60	4.60	4.60	4.60	4.60	5.52	5.52
105.0	190.43	221.71	250.23	275.07	299.91	319.23	337.63	348.67	354.19
120.0	168.35	191.35	212.51	232.75	250.23	264.95	277.83	285.19	289.79
135.0	117.76	131.56	143.52	151.79	158.23	163.75	168.35	172.03	173.87
150.0	61.64	70.84	71.76	74.52	77.28	79.12	80.96	82.80	83.72
165.0	18.40	19.32	20.24	22.08	23.00	23.92	24.84	24.84	24.84
180.0	7.36	7.36	7.36	7.36	7.36	7.36	7.36	7.36	7.36
195.0	36.80	38.64	40.48	42.32	44.16	45.08	46.00	46.92	46.92
210.0	81.88	87.40	92.00	95.68	98.44	101.20	103.96	105.80	106.72
225.0	136.16	149.96	160.99	172.03	181.23	188.59	195.03	200.55	202.39
240.0	80.96	84.64	85.56	91.08	95.68	104.88	116.84	128.80	138.00
255.0	19.32	22.08	25.76	29.44	32.20	33.12	34.04	33.12	34.96
270.0	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
285.0	78.20	85.56	93.84	109.48	123.28	134.32	145.36	155.47	164.67
300.0	103.04	115.92	134.32	149.96	164.67	178.47	189.51	199.63	206.07
315.0	123.28	135.24	145.36	153.63	160.99	166.51	171.11	174.79	176.63
330.0	67.16	70.84	74.52	77.28	79.12	80.96	82.80	83.72	83.72
345.0	22.08	23.00	24.84	24.84	25.76	26.68	26.68	26.68	26.68
360.0	6.44	7.36	7.36	7.36	7.36	7.36	7.36	7.36	7.36

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	7.36	7.36	7.36	7.36	7.36	6.44	6.44	6.44	6.44
15.0	46.92	46.92	46.00	45.08	44.16	43.24	40.48	38.64	35.88
30.0	106.72	105.80	104.88	103.04	101.20	97.52	92.92	87.40	80.96
45.0	211.59	209.75	207.91	203.31	198.71	187.67	175.71	159.15	141.68
60.0	323.83	321.07	314.63	305.43	292.55	270.47	245.63	219.87	192.27
75.0	92.92	92.92	91.08	88.32	84.64	79.12	72.68	65.32	57.96
90.0	5.52	4.60	4.60	4.60	4.60	4.60	4.60	4.60	3.68
105.0	356.03	353.27	346.83	334.87	319.23	294.39	265.87	236.43	206.99
120.0	290.71	287.95	283.35	275.99	264.03	245.63	225.39	202.39	177.55
135.0	175.71	175.71	173.87	171.11	166.51	157.31	147.20	136.16	122.36
150.0	83.72	83.72	82.80	81.88	80.04	77.28	73.60	69.00	63.48
165.0	25.76	25.76	25.76	24.84	24.84	23.92	22.08	21.16	20.24
180.0	7.36	7.36	7.36	7.36	6.44	6.44	5.52	5.52	5.52
195.0	46.92	46.92	46.00	45.08	43.24	41.40	38.64	35.88	33.12
210.0	106.72	105.80	104.88	102.12	99.36	93.84	88.32	81.88	75.44
225.0	205.15	204.23	201.47	195.95	187.67	175.71	172.03	146.28	129.72
240.0	138.92	138.92	140.76	130.64	116.84	100.28	82.80	69.00	61.64
255.0	33.12	30.36	26.68	23.00	20.24	17.48	12.88	8.28	6.44
270.0	1.84	1.84	1.84	1.84	1.84	1.84	0.92	0.92	0.92
285.0	165.59	163.75	157.31	145.36	129.72	111.32	92.00	75.44	65.32
300.0	207.91	207.91	204.23	195.95	182.15	165.59	146.28	126.04	107.64
315.0	176.63	175.71	173.87	169.27	163.75	153.63	142.60	129.72	115.00
330.0	83.72	83.72	82.80	80.96	79.12	75.44	71.76	66.24	60.72
345.0	26.68	26.68	25.76	24.84	23.92	23.00	21.16	19.32	17.48
360.0	7.36	7.36	7.36	7.36	7.36	6.44	6.44	6.44	6.44
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	5.52	5.52	4.60	4.60	3.68	2.76	1.84	0.92	0.00
15.0	33.12	29.44	24.84	21.16	16.56	11.04	6.44	1.84	0.00
30.0	73.60	65.32	56.12	45.08	34.04	22.08	11.96	2.76	0.00
45.0	124.20	104.88	87.40	68.08	50.60	32.20	16.56	1.84	0.00
60.0	164.67	138.00	111.32	85.56	62.56	37.72	17.48	0.92	0.00
75.0	50.60	42.32	34.96	26.68	19.32	11.96	5.52	0.00	0.00
90.0	3.68	3.68	2.76	2.76	1.84	0.92	0.00	0.00	0.00
105.0	175.71	143.52	114.08	85.56	59.80	35.88	14.72	0.00	0.00
120.0	153.63	127.88	103.96	80.04	55.20	33.12	12.88	0.92	0.00
135.0	108.56	92.92	76.36	60.72	44.16	28.52	13.80	2.76	0.00
150.0	57.96	51.52	44.16	34.96	25.76	17.48	9.20	1.84	0.00
165.0	18.40	16.56	14.72	11.96	9.20	6.44	4.60	1.84	0.00
180.0	4.60	4.60	3.68	3.68	2.76	1.84	1.84	0.92	0.00
195.0	29.44	24.84	21.16	16.56	11.04	10.12	2.76	0.00	0.00
210.0	67.16	64.40	46.92	35.88	23.92	12.88	3.68	0.00	0.00
225.0	112.24	92.00	72.68	54.28	34.96	17.48	2.76	0.00	0.00
240.0	53.36	45.08	36.80	27.60	17.48	10.12	1.84	0.00	0.00
255.0	4.60	2.76	0.92	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	56.12	46.92	38.64	29.44	21.16	13.80	1.84	0.00	0.00
300.0	92.00	76.36	61.64	47.84	34.04	20.24	4.60	0.00	0.00
315.0	100.28	82.80	66.24	48.76	33.12	16.56	4.60	0.00	0.00
330.0	53.36	46.00	36.80	28.52	19.32	11.04	3.68	0.00	0.00
345.0	15.64	13.80	11.04	8.28	5.52	3.68	1.84	0.00	0.00
360.0	5.52	5.52	4.60	4.60	3.68	2.76	1.84	0.92	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