
弗格斯莱

Client:

LumCAT: OBRP32LAJUDBK

Luminaire: LED Lamp

Report No:

Ballast type:

Test No:

Voltage(V): 119.970

LampCAT:

Current(A): 0.243

Lamp flux(lm): 1389.2

Power (W): 29.010

Number of Lamps: 1

PF: 0.996

Length(mm): -800

Width(mm): -800

Phm Type: C

Height(mm): 40

Photometric Results

Lumens(lm): 1389.19, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 47.89

Central intensity(cd): 153.418, Maximum intensity(cd): 217.118

Angle of maximum intensity: C=60.0 γ =135.0

Beam Angle(50%Imax): [C0/180]Total=N.A.

[C90/270]Total=N.A.

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

[C90/270]Total=N.A.

Maximum s/h(1/2): C0_180=1.17 C90_270=1.86

Maximum s/h(1/4): C0_180=1.32 C90_270=2.00

Up flux rate of lamp(%): 50.18%

Down flux rate of lamp(%): 49.82%

Up flux rate of LUM(%): 50.18%

Down flux rate of LUM(%): 49.82%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 29.132%

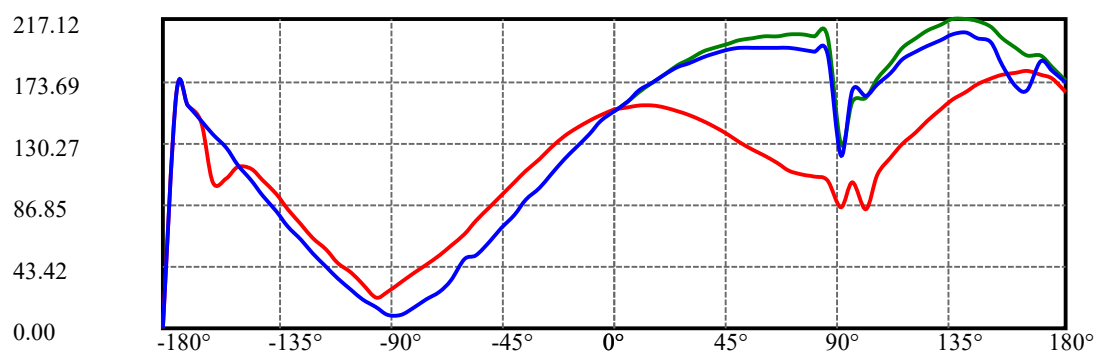
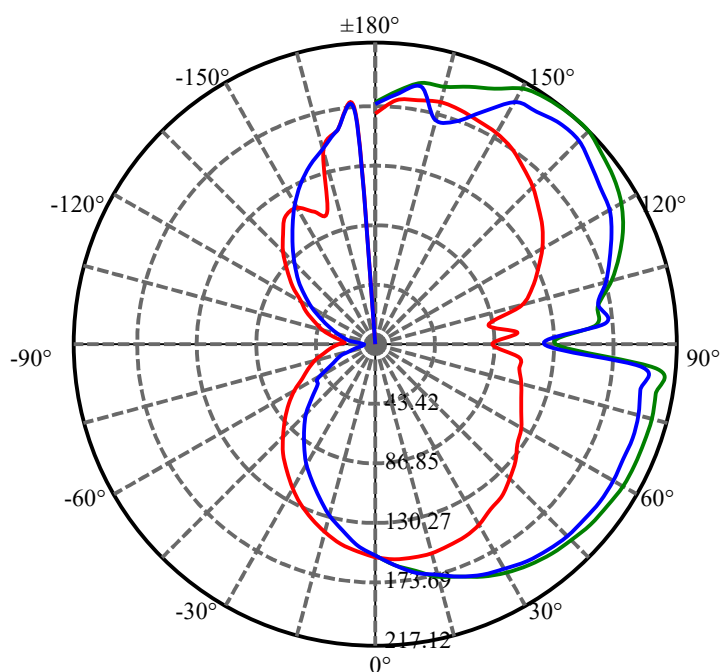
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	153.343	0.000	0	0.00%	0.00%
5.0	152.521	3.657	3.657	0.26%	0.26%
10.0	151.437	10.874	14.53	0.78%	1.05%
15.0	149.456	17.849	32.379	1.28%	2.33%
20.0	146.876	24.422	56.801	1.76%	4.09%
25.0	143.362	30.441	87.241	2.19%	6.28%
30.0	139.213	35.760	123.001	2.57%	8.85%
35.0	134.615	40.323	163.324	2.90%	11.76%
40.0	129.792	44.114	207.439	3.18%	14.93%
45.0	124.148	47.019	254.458	3.38%	18.32%
50.0	118.503	49.031	303.489	3.53%	21.85%
55.0	112.821	50.297	353.786	3.62%	25.47%
60.0	107.438	50.912	404.698	3.66%	29.13%
65.0	101.755	50.855	455.554	3.66%	32.79%
70.0	97.045	50.338	505.891	3.62%	36.42%
75.0	92.933	49.657	555.548	3.57%	39.99%
80.0	89.569	48.832	604.381	3.52%	43.51%
85.0	85.606	47.599	651.98	3.43%	46.93%
90.0	60.859	40.103	692.083	2.89%	49.82%
95.0	73.868	36.889	728.973	2.66%	52.47%
100.0	74.130	40.215	769.187	2.89%	55.37%
105.0	84.522	42.451	811.638	3.06%	58.43%
110.0	93.382	46.501	858.139	3.35%	61.77%
115.0	102.017	49.476	907.615	3.56%	65.33%
120.0	109.643	51.455	959.07	3.70%	69.04%
125.0	118.353	52.701	1011.771	3.79%	72.83%
130.0	126.465	53.232	1065.003	3.83%	76.66%
135.0	134.764	52.785	1117.788	3.80%	80.46%
140.0	141.231	51.103	1168.891	3.68%	84.14%
145.0	147.100	48.106	1216.997	3.46%	87.60%
150.0	151.773	44.011	1261.008	3.17%	90.77%
155.0	149.717	38.154	1299.162	2.75%	93.52%
160.0	147.287	31.150	1330.312	2.24%	95.76%
165.0	152.708	24.724	1355.036	1.78%	97.54%
170.0	167.698	19.006	1374.042	1.37%	98.91%
175.0	170.427	12.096	1386.138	0.87%	99.78%
180.0	85.270	3.057	1389.195	0.22%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	123.00	8.85%	8.85%
0-40	207.44	14.93%	14.93%
0-60	404.70	29.13%	29.13%
0-90	692.08	49.82%	49.82%
0-120	959.07	69.04%	69.04%
0-180	1389.19	100.00%	100.00%
60-90	287.38	20.69%	20.69%
90-120	266.99	19.22%	19.22%
90-130	372.92	26.84%	26.84%
90-150	568.92	40.95%	40.95%
90-180	694.05	49.96%	49.96%
0-134.39	1111.36	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	14.53
10-20	42.27
20-30	66.20
30-40	84.44
40-50	96.05
50-60	101.21
60-70	101.19
70-80	98.49
80-90	87.70
90-100	77.10
100-110	88.95
110-120	100.93
120-130	105.93
130-140	103.89
140-150	92.12
150-160	69.30
160-170	43.73
170-180	12.10



C60(Max):

C0/C180:

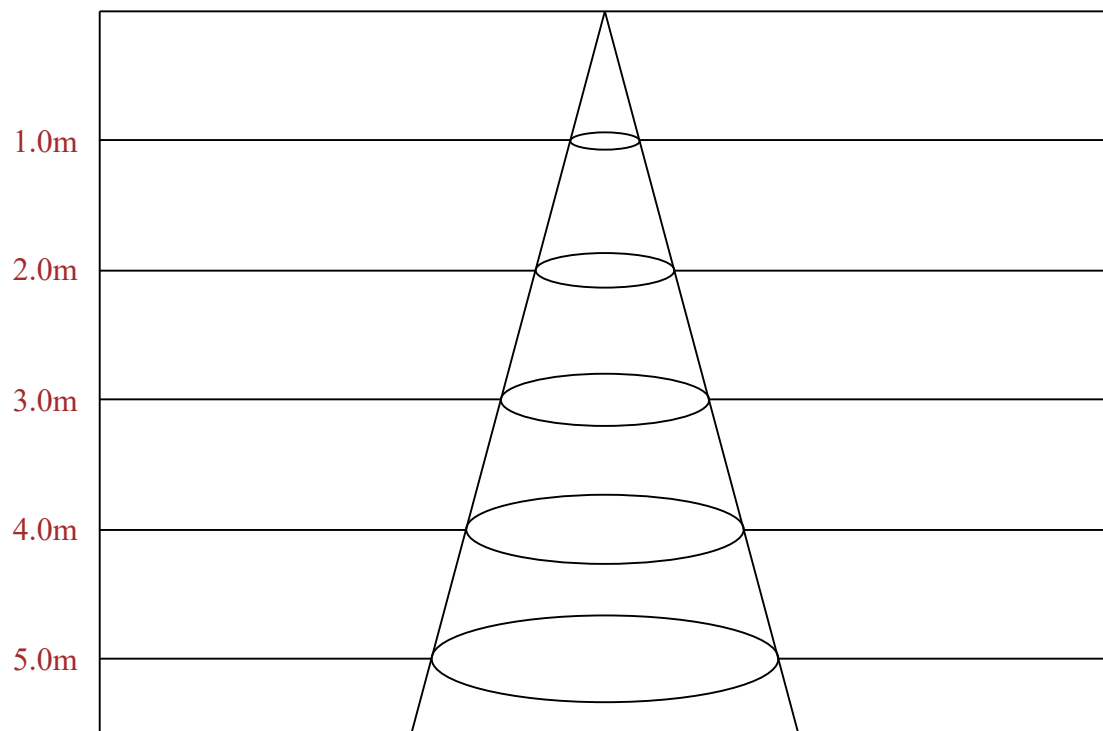
C90/C270:

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

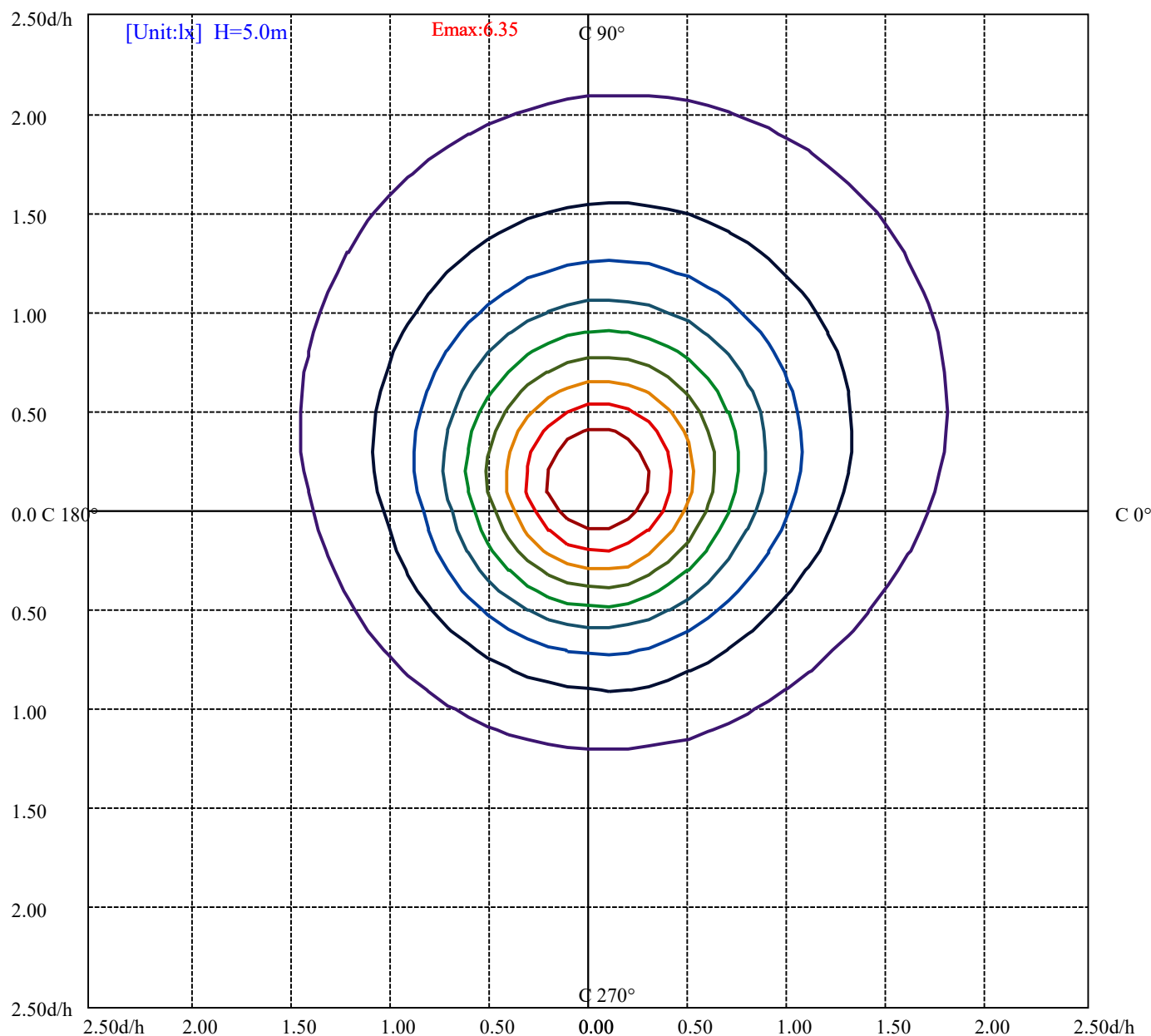
:C90/270Left:0.0 Right:0.0

Beam Angle(50%Imax):C0/180Left:0.0 Right:0.0

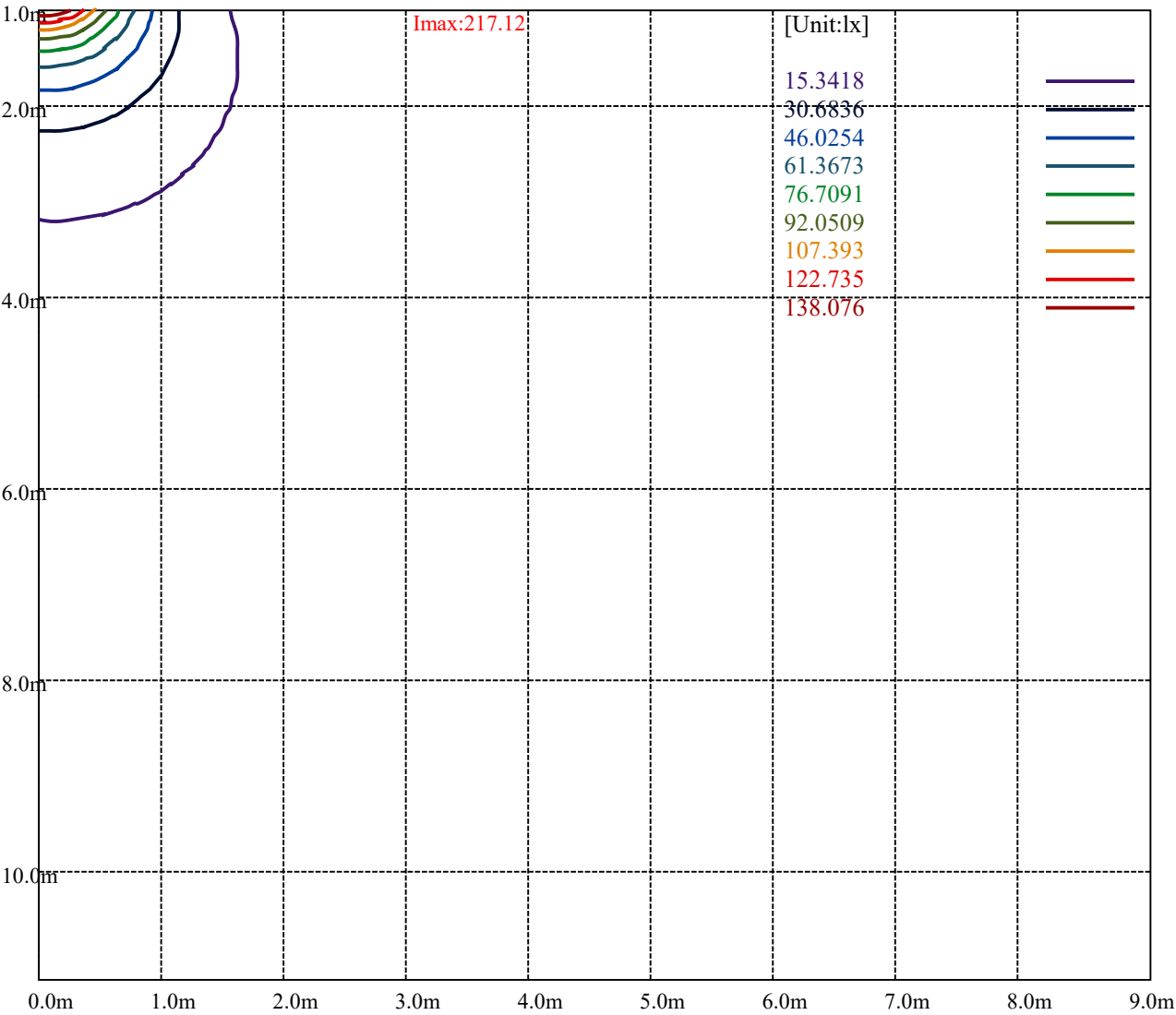
:C90/270Left:0.0 Right:0.0



Max , Ave Beam angle of C60 plane 223.41



(10%Emax) 0.63468	—
(20%Emax) 1.26936	—
(30%Emax) 1.90404	—
(40%Emax) 2.53872	—
(50%Emax) 3.1734	—
(60%Emax) 3.80808	—
(70%Emax) 4.44276	—
(80%Emax) 5.07744	—
(90%Emax) 5.71212	—



Luminance Table

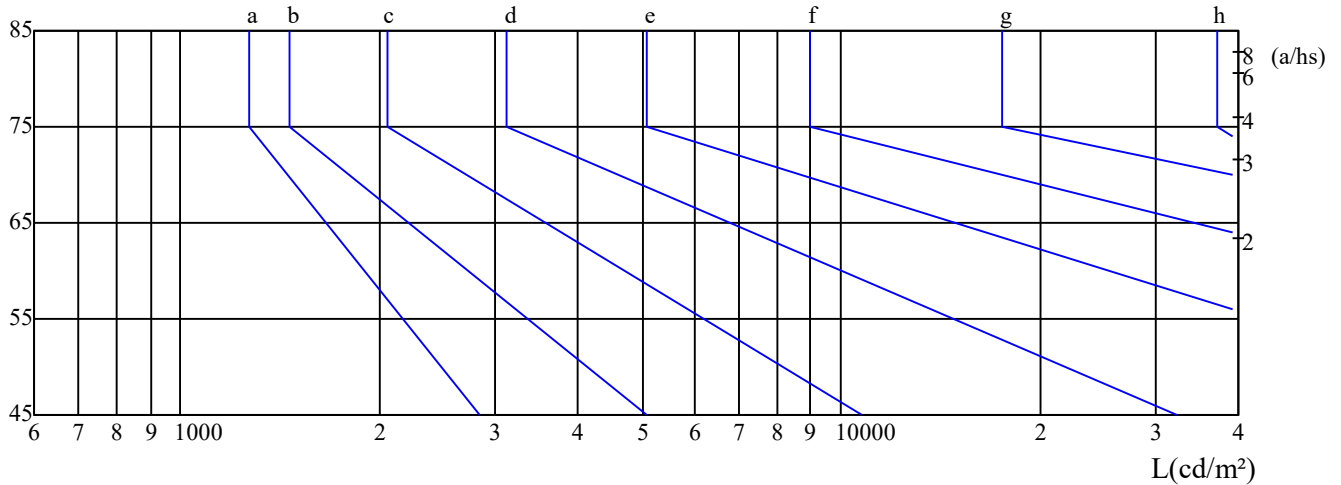
γ	45	50	55	60	65	70	75	80	85
C0	361	377	399	434	479	551	674	891	1375
C45	508	555	619	698	806	959	1204	1624	2525
C90	517	565	628	707	814	973	1215	1631	2549

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
410	543	479	586	828	715	1556	2314	1976

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

 $\gamma(^{\circ})$ 

C0 ———

C45 ———

C90 ———

RHOC	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	1.07	1.07	1.07	0.99	0.99	0.99	0.83	0.83	0.83	0.69	0.69	0.69	0.56	0.56	0.56	0.50
1	0.89	0.84	0.80	0.82	0.78	0.74	0.68	0.65	0.62	0.56	0.54	0.51	0.45	0.43	0.41	0.36
2	0.76	0.69	0.63	0.70	0.64	0.58	0.58	0.53	0.49	0.48	0.44	0.41	0.38	0.35	0.33	0.28
3	0.66	0.58	0.51	0.61	0.53	0.47	0.51	0.45	0.40	0.41	0.37	0.33	0.33	0.29	0.27	0.22
4	0.58	0.49	0.42	0.53	0.45	0.39	0.44	0.38	0.33	0.36	0.32	0.28	0.29	0.25	0.22	0.18
5	0.51	0.42	0.36	0.47	0.39	0.33	0.39	0.33	0.28	0.32	0.27	0.24	0.26	0.22	0.19	0.15
6	0.46	0.37	0.31	0.42	0.34	0.29	0.35	0.29	0.24	0.29	0.24	0.20	0.23	0.19	0.16	0.13
7	0.41	0.33	0.27	0.38	0.30	0.25	0.32	0.26	0.21	0.26	0.21	0.18	0.21	0.17	0.14	0.12
8	0.37	0.29	0.23	0.34	0.27	0.22	0.29	0.23	0.19	0.24	0.19	0.16	0.19	0.15	0.13	0.10
9	0.34	0.26	0.21	0.31	0.24	0.19	0.26	0.21	0.17	0.22	0.17	0.14	0.18	0.14	0.11	0.09
10	0.31	0.23	0.18	0.29	0.22	0.17	0.24	0.19	0.15	0.20	0.16	0.12	0.16	0.13	0.10	0.08

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Intensity data(cd)										Appendix Page: 10 Total:12	
C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0		
0.0	153.42	155.21	156.11	156.11	155.21	152.52	149.83	145.34	141.75		
15.0	152.52	156.11	159.70	161.49	163.29	163.29	163.29	162.39	160.60		
30.0	152.52	157.90	162.39	166.88	170.46	172.26	174.95	175.85	176.74		
45.0	152.52	158.80	165.08	170.46	175.85	180.33	183.92	186.61	189.31		
60.0	152.52	159.70	165.98	173.16	178.54	184.82	189.31	193.79	197.38		
75.0	152.52	159.70	166.88	174.05	180.33	185.72	190.20	194.69	198.28		
90.0	152.52	159.70	166.88	172.26	177.64	183.03	186.61	190.20	192.89		
105.0	153.42	158.80	165.08	169.57	174.05	177.64	179.44	181.23	183.03		
120.0	153.42	158.80	162.39	165.98	167.77	169.57	169.57	169.57	167.77		
135.0	156.11	157.01	159.70	160.60	160.60	159.70	157.90	155.21	150.73		
150.0	154.32	156.11	156.11	155.21	150.73	149.83	146.24	140.86	133.68		
165.0	154.32	154.32	152.52	149.83	146.24	140.86	134.58	127.40	118.43		
180.0	153.42	149.83	146.24	140.86	134.58	127.40	119.33	111.25	102.28		
195.0	152.52	147.14	141.75	135.47	128.30	120.22	111.25	102.28	93.31		
210.0	152.52	146.24	139.06	131.89	122.91	114.84	105.87	96.00	86.13		
225.0	152.52	144.45	137.27	129.19	119.33	110.35	101.38	91.51	81.64		
240.0	152.52	144.45	136.37	127.40	117.53	108.56	98.69	88.82	78.95		
255.0	152.52	143.55	135.47	126.50	117.53	107.66	97.79	87.92	78.05		
270.0	152.52	145.34	136.37	127.40	118.43	108.56	98.69	89.72	79.85		
285.0	153.42	145.34	138.17	129.19	121.12	112.15	102.28	92.41	90.62		
300.0	153.42	147.14	140.86	133.68	130.99	116.63	107.66	97.79	88.82		
315.0	156.11	148.93	143.55	137.27	130.99	122.91	113.94	105.87	96.90		
330.0	154.32	151.62	148.04	142.65	137.27	130.99	122.91	115.74	106.76		
345.0	154.32	154.32	152.52	149.83	145.34	140.86	135.47	128.30	121.12		
360.0	153.42	155.21	156.11	156.11	155.21	152.52	149.83	145.34	141.75		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	136.37	130.99	125.61	121.12	115.74	111.25	108.56	105.87	104.07		
15.0	158.80	156.11	153.42	149.83	147.14	144.45	142.65	139.96	135.47		
30.0	177.64	176.74	176.74	175.85	174.05	172.26	171.36	170.46	166.88		
45.0	192.00	192.89	194.69	194.69	194.69	193.79	193.79	192.89	191.10		
60.0	200.07	202.76	203.66	205.45	205.45	206.35	206.35	205.45	204.56		
75.0	200.97	203.66	205.45	206.35	206.35	208.15	207.25	207.25	205.45		
90.0	195.59	196.48	197.38	197.38	196.48	196.48	195.59	193.79	192.89		
105.0	183.03	183.03	182.13	180.33	178.54	176.74	174.95	172.26	171.36		
120.0	165.98	163.29	160.60	157.01	154.32	150.73	147.14	144.45	141.75		
135.0	146.24	141.75	135.47	130.09	124.71	120.22	116.63	113.04	109.46		
150.0	127.40	120.22	113.04	104.97	98.69	92.41	87.92	84.34	78.95		
165.0	111.25	102.28	93.31	85.23	78.05	69.98	64.60	59.21	52.04		
180.0	93.31	84.34	75.36	66.39	58.32	51.14	43.96	38.58	32.30		
195.0	83.44	73.57	64.60	55.63	46.65	39.48	32.30	26.02	21.53		
210.0	77.16	67.29	58.32	48.45	39.48	32.30	25.12	18.84	14.35		
225.0	71.77	62.80	52.93	43.96	35.89	27.81	20.64	14.35	9.87		
240.0	69.08	60.11	50.24	42.17	33.20	26.02	18.84	12.56	8.07		
255.0	68.19	59.21	50.24	41.27	33.20	25.12	18.84	17.05	8.07		
270.0	69.98	60.11	51.14	48.45	34.09	26.02	19.74	14.35	9.87		
285.0	73.57	63.70	54.73	45.76	37.68	29.61	23.33	17.94	15.25		
300.0	78.95	69.98	60.11	51.14	43.06	35.89	29.61	26.02	23.33		
315.0	87.03	77.16	68.19	60.11	52.04	46.65	41.27	38.58	35.89		
330.0	97.79	88.82	80.75	73.57	67.29	61.91	58.32	56.52	51.14		
345.0	113.94	106.76	99.59	93.31	87.03	84.34	81.64	79.85	70.88		
360.0	136.37	130.99	125.61	121.12	115.74	111.25	108.56	105.87	104.07		

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Intensity data(cd)										Appendix Page: 11 Total:12	
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0		
0.0	84.34	102.28	83.44	108.56	120.22	130.09	138.17	146.24	153.42		
15.0	108.56	131.89	109.46	135.47	148.04	158.80	165.08	174.05	179.44		
30.0	123.81	152.52	134.58	157.01	168.67	180.33	184.82	193.79	199.17		
45.0	123.81	164.18	152.52	168.67	181.23	191.10	198.28	205.45	209.94		
60.0	130.09	159.70	162.39	175.85	186.61	196.48	203.66	209.04	212.63		
75.0	133.68	172.26	169.57	178.54	186.61	196.48	201.87	206.35	209.94		
90.0	121.12	166.88	163.29	171.36	179.44	188.41	194.69	198.28	202.76		
105.0	105.87	130.09	134.58	145.34	152.52	160.60	166.88	171.36	176.74		
120.0	94.20	98.69	104.07	109.46	120.22	129.19	137.27	144.45	152.52		
135.0	74.47	85.23	75.36	82.54	94.20	101.38	108.56	118.43	126.50		
150.0	59.21	64.60	52.93	60.11	69.98	74.47	82.54	93.31	103.18		
165.0	38.58	43.06	33.20	41.27	50.24	54.73	64.60	73.57	84.34		
180.0	26.02	21.53	30.50	38.58	45.76	54.73	62.80	72.67	83.44		
195.0	15.25	15.25	25.12	32.30	38.58	47.55	56.52	65.49	75.36		
210.0	9.87	14.35	21.53	27.81	34.09	43.06	51.14	60.11	70.88		
225.0	7.18	13.46	18.84	24.22	32.30	40.37	42.17	58.32	68.19		
240.0	6.28	11.66	12.56	24.22	30.50	39.48	47.55	57.42	67.29		
255.0	7.18	11.66	17.05	24.22	32.30	40.37	48.45	58.32	68.19		
270.0	8.97	14.35	19.74	26.92	34.99	43.06	52.04	61.91	71.77		
285.0	12.56	19.74	26.02	32.30	40.37	49.35	58.32	68.19	78.05		
300.0	17.94	27.81	34.09	41.27	49.35	58.32	67.29	78.05	87.03		
315.0	29.61	40.37	46.65	53.83	61.01	69.98	79.85	89.72	99.59		
330.0	47.55	49.35	65.49	72.67	79.85	87.92	97.79	106.76	116.63		
345.0	74.47	61.91	86.13	96.00	104.07	112.15	121.12	129.19	138.17		
360.0	84.34	102.28	83.44	108.56	120.22	130.09	138.17	146.24	153.42		
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0		
0.0	160.60	165.98	171.36	174.95	177.64	179.44	180.33	178.54	175.85		
15.0	184.82	188.41	191.10	192.00	192.00	190.20	187.51	183.92	178.54		
30.0	202.76	204.56	205.45	204.56	201.87	198.28	193.79	187.51	181.23		
45.0	213.53	214.43	213.53	211.74	206.35	200.97	195.59	190.20	182.13		
60.0	217.12	217.12	215.32	211.74	203.66	197.38	192.00	191.10	183.03		
75.0	213.53	213.53	210.84	207.25	194.69	184.82	181.23	190.20	182.13		
90.0	206.35	207.25	203.66	200.97	184.82	170.46	167.77	187.51	180.33		
105.0	183.03	185.72	183.92	183.92	166.88	150.73	148.04	182.13	178.54		
120.0	160.60	165.08	165.08	166.88	146.24	130.99	125.61	172.26	174.95		
135.0	136.37	143.55	147.14	150.73	133.68	111.25	108.56	160.60	168.67		
150.0	113.94	122.91	129.19	135.47	121.12	99.59	88.82	149.83	160.60		
165.0	96.00	105.87	114.84	122.91	113.04	90.62	78.95	137.27	154.32		
180.0	94.20	103.18	112.15	113.94	104.97	102.28	144.45	156.11	165.08		
195.0	85.23	95.10	104.07	110.35	107.66	107.66	143.55	157.01	165.08		
210.0	80.75	82.54	100.48	108.56	111.25	117.53	143.55	155.21	165.08		
225.0	78.05	88.82	98.69	108.56	115.74	124.71	143.55	153.42	164.18		
240.0	77.16	87.92	98.69	109.46	119.33	130.09	143.55	153.42	164.18		
255.0	78.95	89.72	100.48	111.25	122.02	132.78	144.45	154.32	164.18		
270.0	82.54	92.41	104.07	114.84	126.50	136.37	146.24	156.11	164.18		
285.0	88.82	99.59	109.46	120.22	130.99	140.86	149.83	158.80	165.08		
300.0	97.79	108.56	118.43	128.30	138.17	147.14	155.21	161.49	166.88		
315.0	110.35	119.33	129.19	138.17	147.14	154.32	160.60	165.08	167.77		
330.0	125.61	134.58	143.55	150.73	157.90	163.29	167.77	169.57	169.57		
345.0	146.24	153.42	159.70	165.08	169.57	173.16	174.05	173.16	168.67		
360.0	160.60	165.98	171.36	174.95	177.64	179.44	180.33	178.54	175.85		

Intensity data(cd)

C/ γ (°)	180.0
0.0	165.98
15.0	172.26
30.0	172.26
45.0	173.16
60.0	174.05
75.0	173.16
90.0	172.26
105.0	172.26
120.0	171.36
135.0	170.46
150.0	166.88
165.0	162.39
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	165.98