
弗格斯莱

Client:

LumCAT: OBRP32LAJUDSN

Luminaire: LED Lamp

Report No:

Ballast type:

Test No: LCZP25070048

Voltage(V): 119.900

LampCAT:

Current(A): 0.243

Lamp flux(lm): 1470.6

Power (W): 29.030

Number of Lamps: 1

PF: 0.996

Length(mm): -800

Width(mm): -800

Phm Type: C

Height(mm): 40

Photometric Results

Lumens(lm): 1470.55, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 50.66

Central intensity(cd): 162.121, Maximum intensity(cd): 229.948

Angle of maximum intensity: C=60.0 γ =140.0

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%

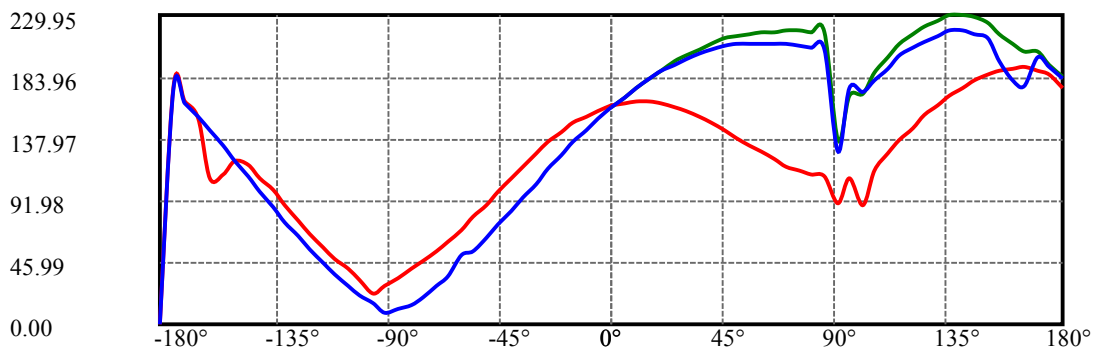
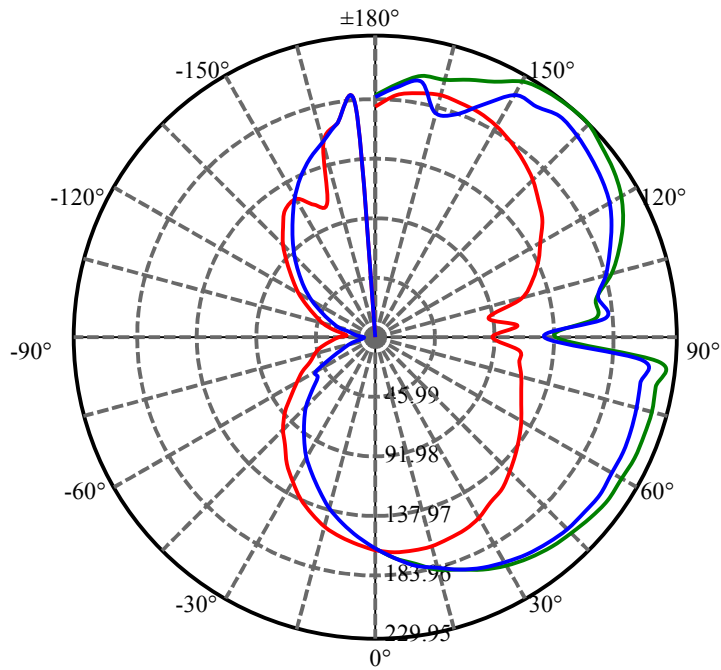
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	162.240	0.000	0	0.00%	0.00%
5.0	161.493	3.870	3.87	0.26%	0.26%
10.0	160.278	11.511	15.381	0.78%	1.05%
15.0	158.166	18.890	34.271	1.28%	2.33%
20.0	155.527	25.853	60.123	1.76%	4.09%
25.0	151.758	32.229	92.352	2.19%	6.28%
30.0	147.407	37.860	130.212	2.57%	8.85%
35.0	142.570	42.701	172.913	2.90%	11.76%
40.0	137.430	46.716	219.628	3.18%	14.94%
45.0	131.419	49.779	269.408	3.39%	18.32%
50.0	125.430	51.900	321.308	3.53%	21.85%
55.0	119.363	53.226	374.534	3.62%	25.47%
60.0	113.654	53.861	428.395	3.66%	29.13%
65.0	107.759	53.826	482.221	3.66%	32.79%
70.0	102.768	53.307	535.528	3.62%	36.42%
75.0	98.309	52.558	588.086	3.57%	39.99%
80.0	94.825	51.677	639.763	3.51%	43.51%
85.0	90.634	50.394	690.157	3.43%	46.93%
90.0	64.489	42.474	732.631	2.89%	49.82%
95.0	78.160	39.058	771.689	2.66%	52.48%
100.0	78.567	42.586	814.275	2.90%	55.37%
105.0	89.471	44.962	859.238	3.06%	58.43%
110.0	98.765	49.202	908.44	3.35%	61.78%
115.0	107.897	52.328	960.768	3.56%	65.33%
120.0	116.088	54.451	1015.219	3.70%	69.04%
125.0	125.262	55.787	1071.006	3.79%	72.83%
130.0	133.972	56.366	1127.372	3.83%	76.66%
135.0	142.514	55.868	1183.24	3.80%	80.46%
140.0	149.508	54.070	1237.31	3.68%	84.14%
145.0	155.695	50.921	1288.231	3.46%	87.60%
150.0	160.704	46.592	1334.823	3.17%	90.77%
155.0	158.532	40.400	1375.223	2.75%	93.52%
160.0	155.956	32.984	1408.207	2.24%	95.76%
165.0	161.665	26.176	1434.383	1.78%	97.54%
170.0	177.556	20.122	1454.506	1.37%	98.91%
175.0	180.382	12.805	1467.31	0.87%	99.78%
180.0	90.290	3.236	1470.546	0.22%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	130.21	8.85%	8.85%
0-40	219.63	14.94%	14.94%
0-60	428.39	29.13%	29.13%
0-90	732.63	49.82%	49.82%
0-120	1015.22	69.04%	69.04%
0-180	1470.55	100.00%	100.00%
60-90	304.24	20.69%	20.69%
90-120	282.59	19.22%	19.22%
90-130	394.74	26.84%	26.84%
90-150	602.19	40.95%	40.95%
90-180	734.68	49.96%	49.96%
0-134.39	1176.44	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	15.38
10-20	44.74
20-30	70.09
30-40	89.42
40-50	101.68
50-60	107.09
60-70	107.13
70-80	104.24
80-90	92.87
90-100	81.64
100-110	94.16
110-120	106.78
120-130	112.15
130-140	109.94
140-150	97.51
150-160	73.38
160-170	46.30
170-180	12.80



C60(Max):

C0/C180:

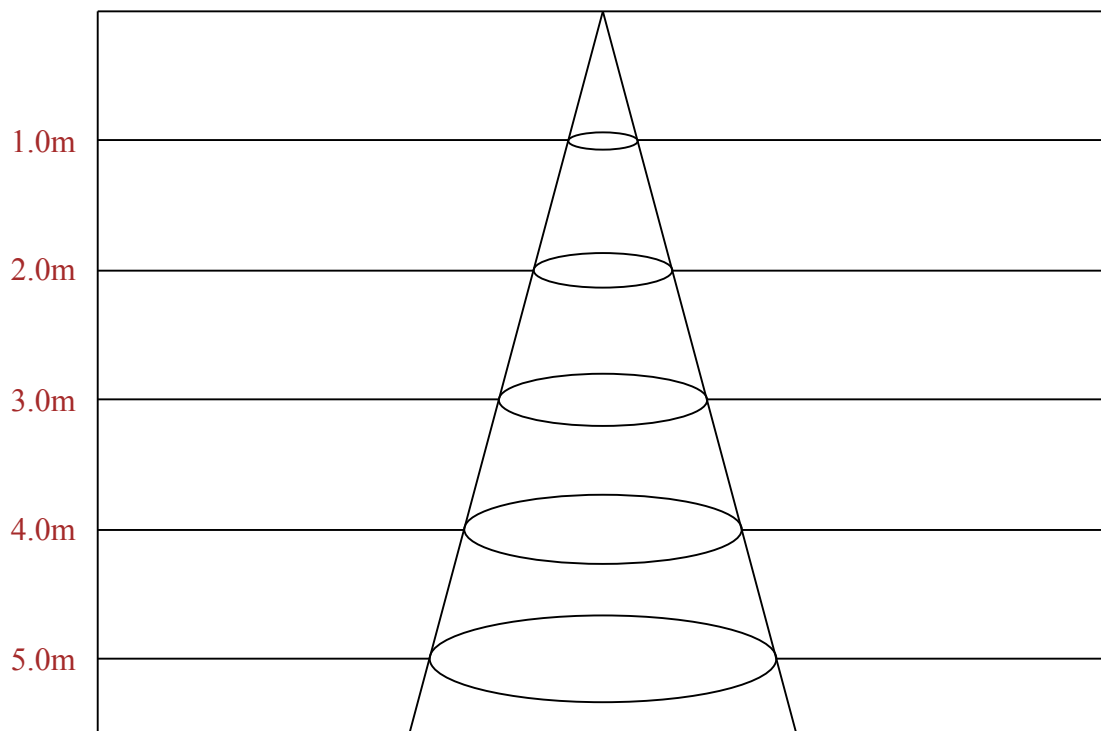
C90/C270:

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

:C90/270Left:0.0 Right:0.0

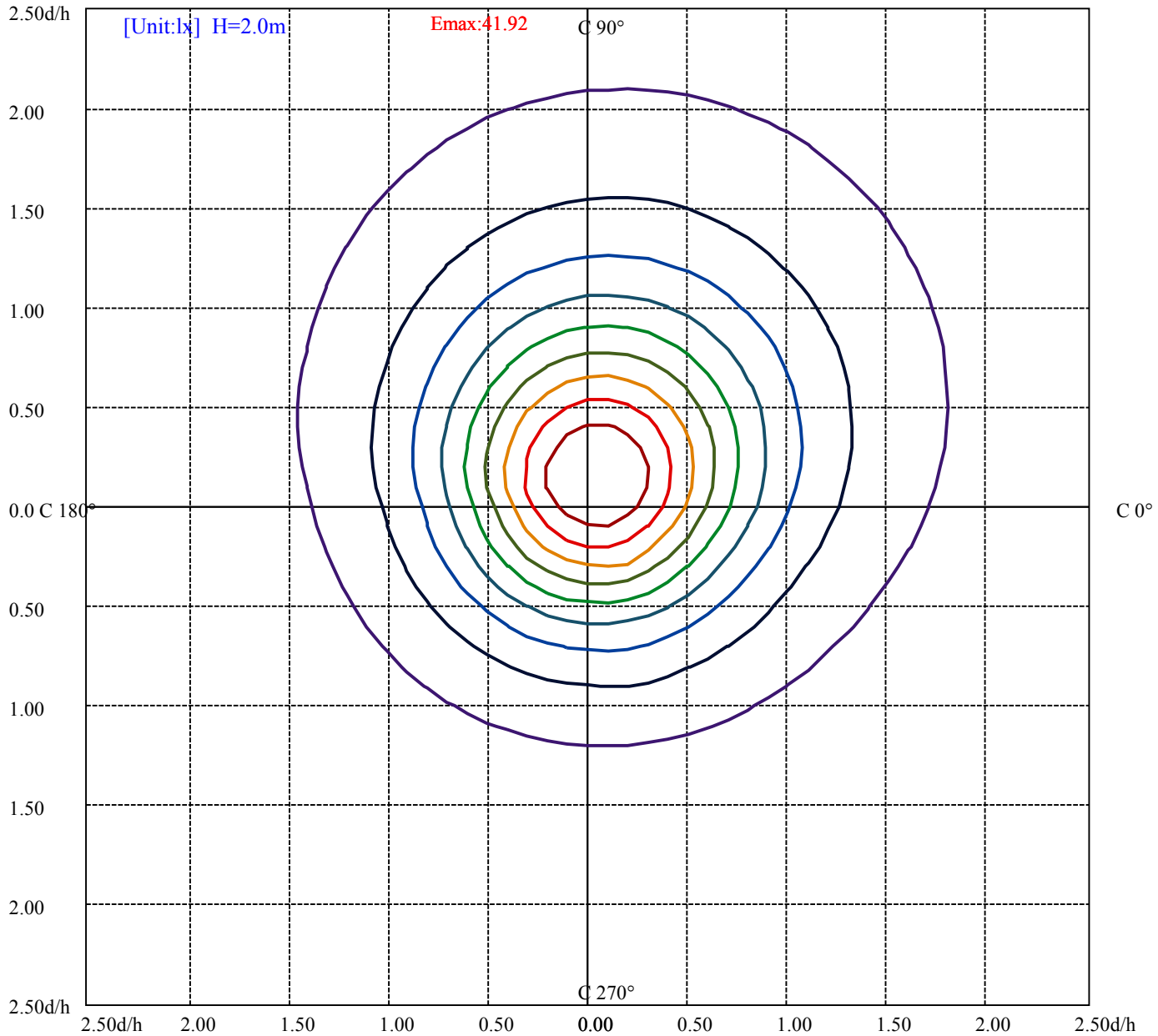
Beam Angle(50%Imax):C0/180Left:0.0 Right:0.0

:C90/270Left:0.0 Right:0.0

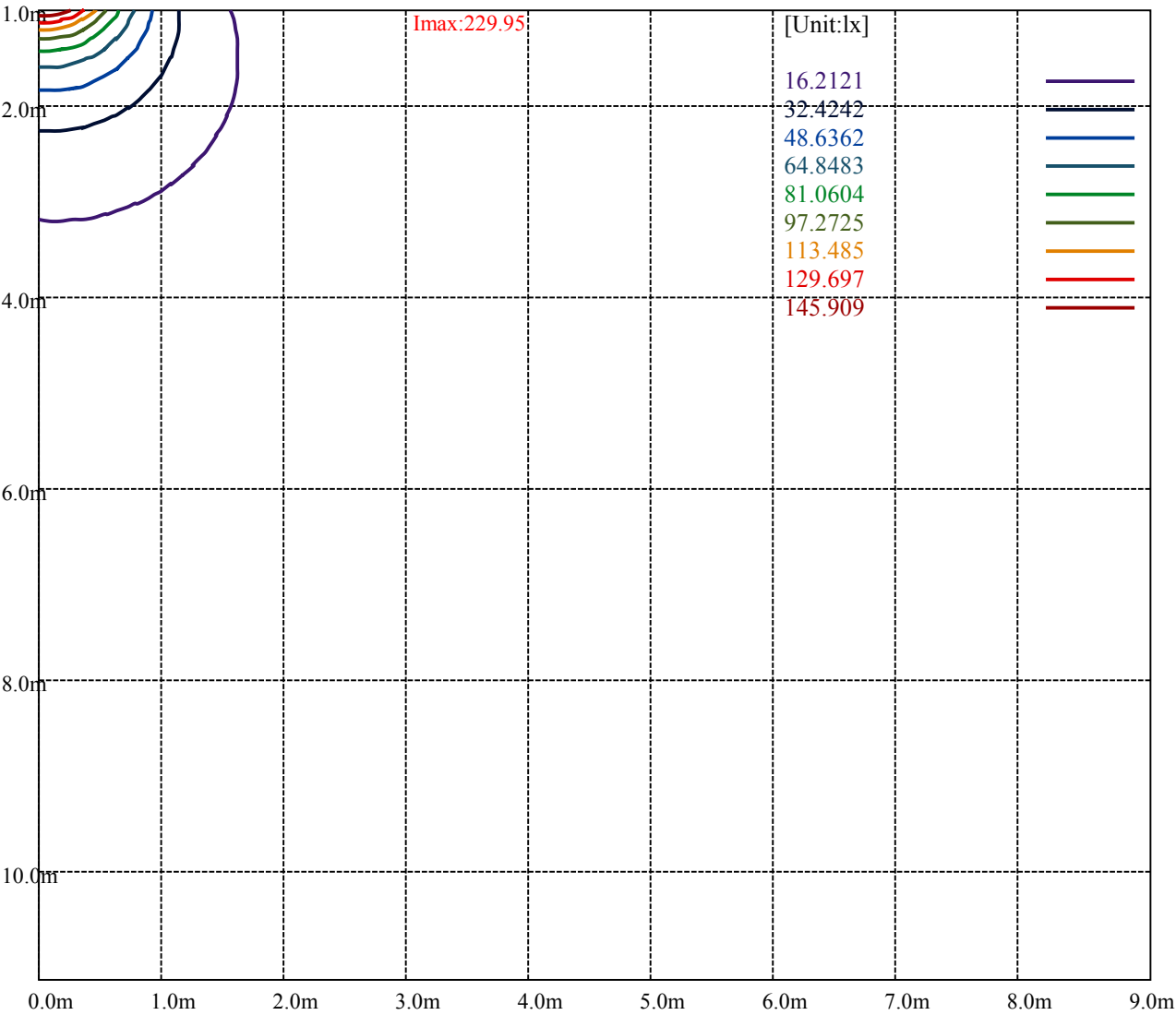


Max , Ave

Beam angle of C60 plane 223.60



(10%Emax) 4.192125	—
(20%Emax) 8.38425	—
(30%Emax) 12.57638	—
(40%Emax) 16.7685	—
(50%Emax) 20.96062	—
(60%Emax) 25.15275	—
(70%Emax) 29.345	—
(80%Emax) 33.537	—
(90%Emax) 37.72925	—



Luminance Table

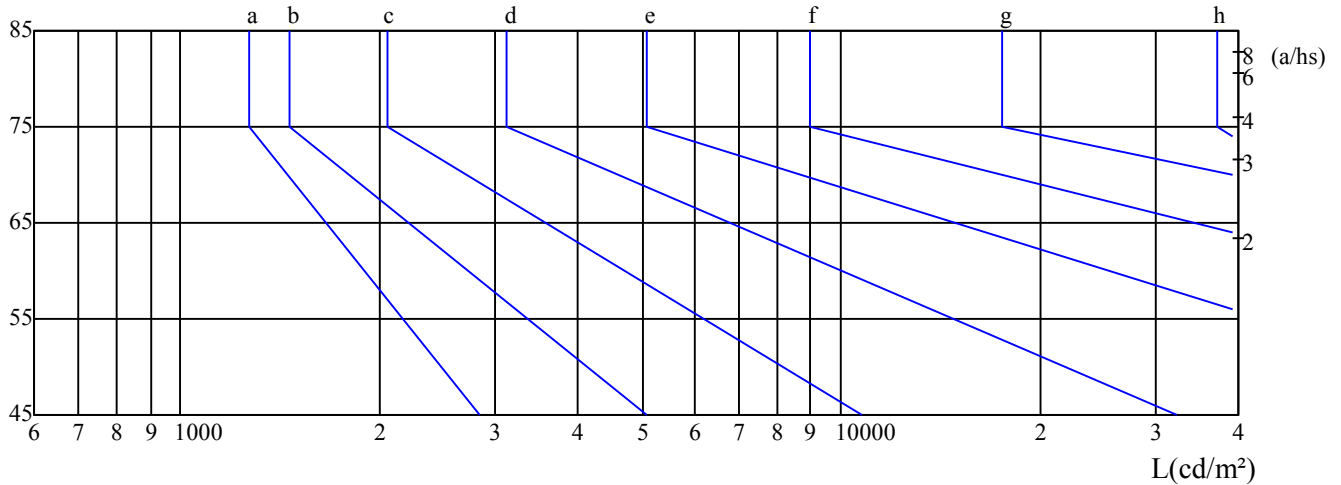
γ	45	50	55	60	65	70	75	80	85
C0	382	400	424	458	507	583	712	943	1453
C45	538	588	654	738	853	1018	1273	1720	2675
C90	547	598	664	748	862	1029	1283	1729	2700

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
433	575	507	621	873	757	1650	2456	2093

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 ———

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	1.07	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	162.12	164.18	165.35	164.99	163.92	161.58	158.44	154.23	150.10		
15.0	161.40	165.53	168.76	170.91	172.53	172.89	172.53	171.45	169.75		
30.0	161.31	167.15	172.17	176.48	180.06	182.85	185.09	186.52	187.24		
45.0	161.04	168.13	174.86	180.87	186.17	190.83	194.60	198.01	200.88		
60.0	161.22	169.21	176.12	183.38	189.22	195.23	200.43	204.92	208.86		
75.0	161.13	169.39	176.83	183.83	190.56	196.30	201.51	205.72	209.58		
90.0	161.49	168.76	176.30	182.22	188.41	193.43	197.74	201.42	204.38		
105.0	162.12	168.31	174.32	179.44	183.83	187.60	190.02	192.18	193.34		
120.0	162.39	167.77	171.99	175.40	177.82	179.26	179.71	179.35	177.82		
135.0	165.62	166.25	168.85	170.37	170.29	169.39	167.23	164.36	159.88		
150.0	163.29	164.81	165.17	164.36	159.79	159.07	154.41	148.75	141.84		
165.0	163.74	163.20	161.31	158.35	154.58	148.66	142.47	135.12	125.70		
180.0	162.12	158.80	154.67	149.38	142.83	135.30	126.77	117.71	108.02		
195.0	161.40	156.20	150.46	143.19	135.74	127.31	118.07	108.38	98.51		
210.0	161.31	154.58	147.32	139.24	130.45	121.30	111.79	101.38	91.60		
225.0	161.04	153.24	144.98	136.46	126.59	117.26	107.21	97.08	86.67		
240.0	161.22	152.79	144.09	134.58	124.80	114.66	104.25	94.47	83.89		
255.0	161.13	152.43	143.37	133.86	124.44	114.30	103.89	93.31	82.81		
270.0	161.49	153.42	144.36	135.12	125.16	115.11	104.79	94.83	84.25		
285.0	162.12	154.05	146.42	137.09	128.39	118.61	108.47	98.15	95.73		
300.0	162.39	156.11	148.84	141.13	139.06	123.45	113.76	103.98	93.76		
315.0	165.62	157.99	152.43	145.79	138.35	130.36	120.94	112.06	102.19		
330.0	163.29	160.42	156.47	151.35	145.52	138.52	130.54	122.11	112.87		
345.0	163.74	163.11	161.22	158.17	154.14	148.93	143.10	136.19	128.66		
360.0	162.12	164.18	165.35	164.99	163.92	161.58	158.44	154.23	150.10		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	144.45	139.06	133.23	127.85	122.47	117.71	114.66	112.06	109.99		
15.0	167.68	164.81	162.12	158.98	155.75	152.88	150.91	148.39	143.55		
30.0	187.69	187.42	186.88	185.99	184.28	182.67	181.50	180.69	176.30		
45.0	203.21	204.47	205.72	205.99	205.90	205.54	205.01	204.38	202.49		
60.0	212.18	214.43	215.95	217.30	217.48	218.37	218.02	217.39	216.94		
75.0	212.90	215.41	217.21	218.28	218.64	219.90	219.63	219.00	217.39		
90.0	206.62	207.88	208.77	208.77	208.15	207.88	206.62	205.37	204.38		
105.0	193.79	193.43	192.54	191.10	189.40	187.33	185.27	182.67	181.32		
120.0	175.94	173.07	170.20	166.16	163.02	159.25	156.11	152.79	150.46		
135.0	155.03	149.65	143.64	137.90	132.42	127.49	123.45	119.59	116.19		
150.0	134.58	126.95	119.33	111.34	104.61	98.15	92.86	88.82	83.17		
165.0	117.62	108.56	99.23	90.08	82.45	74.47	68.19	62.62	55.18		
180.0	98.87	89.18	79.49	70.16	61.55	53.74	46.83	40.91	34.54		
195.0	88.37	78.23	68.28	58.59	49.79	41.36	33.82	27.45	22.34		
210.0	81.46	71.33	61.28	51.50	42.26	33.73	26.38	19.74	15.16		
225.0	76.35	66.66	56.16	47.01	37.68	29.61	21.89	15.61	10.32		
240.0	73.48	63.52	53.65	44.32	35.53	27.72	19.83	13.73	8.52		
255.0	72.31	62.35	53.11	43.24	35.08	26.92	19.56	17.94	8.88		
270.0	73.75	63.70	53.92	51.68	36.07	27.90	20.64	14.80	10.86		
285.0	77.52	67.47	57.60	48.09	39.75	31.40	24.85	19.29	15.70		
300.0	83.53	73.84	63.34	54.19	45.49	38.13	31.76	27.27	24.31		
315.0	92.05	82.00	72.22	63.25	55.18	49.26	43.60	40.55	37.86		
330.0	103.98	94.20	85.68	77.61	70.79	65.94	62.00	59.93	54.46		
345.0	120.67	112.69	105.15	98.33	92.50	89.09	86.04	84.78	74.91		
360.0	144.45	139.06	133.23	127.85	122.47	117.71	114.66	112.06	109.99		

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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	89.45	108.29	87.92	114.84	127.31	137.36	146.24	155.03	162.84		
15.0	115.11	139.33	115.65	143.46	156.92	168.31	174.77	184.19	190.38		
30.0	131.26	161.67	142.92	166.25	178.36	190.56	196.03	205.54	210.57		
45.0	131.08	173.43	161.40	178.63	191.46	202.05	210.21	217.39	221.96		
60.0	137.72	169.48	171.45	186.61	197.92	208.42	215.86	221.51	225.19		
75.0	141.67	182.58	179.89	189.48	197.20	208.42	213.80	218.64	221.87		
90.0	128.48	176.30	173.25	181.50	189.66	199.53	206.35	210.21	214.52		
105.0	111.70	138.17	142.74	153.60	161.04	169.75	176.21	181.50	187.51		
120.0	100.04	104.70	110.44	116.01	127.04	136.91	144.89	153.33	161.94		
135.0	79.31	90.35	80.21	87.21	99.50	106.94	114.66	124.98	134.40		
150.0	63.16	68.46	56.43	63.97	74.47	78.68	87.12	98.42	108.92		
165.0	41.27	45.22	35.44	43.69	53.11	58.05	68.46	78.23	89.63		
180.0	27.99	22.70	32.39	40.91	48.63	57.69	66.93	76.62	88.55		
195.0	16.15	15.97	26.20	33.73	40.55	49.97	59.48	68.90	80.21		
210.0	10.41	14.80	23.15	29.70	36.07	45.67	54.37	63.88	74.82		
225.0	7.18	14.09	19.65	26.11	33.91	42.53	44.50	61.28	71.77		
240.0	6.91	12.20	13.46	25.21	32.66	41.36	50.60	60.56	71.24		
255.0	7.36	12.47	18.39	25.66	33.73	42.35	51.41	61.46	72.04		
270.0	9.06	15.07	21.17	28.44	36.78	45.76	55.36	65.58	76.35		
285.0	12.83	21.08	27.27	34.54	42.71	51.95	61.91	72.13	82.90		
300.0	19.29	29.79	35.89	43.42	51.86	61.37	71.60	82.18	92.41		
315.0	31.22	42.53	49.61	56.52	65.05	74.02	84.07	94.74	105.69		
330.0	50.06	52.04	69.35	76.53	84.42	93.40	103.27	112.87	123.72		
345.0	79.04	65.14	91.33	101.29	109.99	118.52	128.03	137.09	145.88		
360.0	89.45	108.29	87.92	114.84	127.31	137.36	146.24	155.03	162.84		
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0		
0.0	169.57	175.76	181.32	185.54	188.50	190.02	190.74	189.04	185.72		
15.0	195.32	199.08	201.96	203.12	202.94	201.42	198.82	194.87	188.95		
30.0	214.43	216.76	217.39	216.22	213.89	209.49	205.10	198.91	191.64		
45.0	225.82	226.99	226.18	223.76	218.55	212.99	207.16	201.33	192.80		
60.0	229.41	229.95	228.42	224.56	215.50	208.77	203.48	202.76	193.34		
75.0	225.64	226.18	223.04	219.18	206.53	195.77	191.73	201.51	193.25		
90.0	218.02	219.09	215.23	213.08	195.32	180.69	177.46	198.46	191.28		
105.0	193.34	196.66	194.42	194.42	176.48	159.43	156.29	192.45	188.86		
120.0	170.29	174.95	175.13	176.74	154.85	138.52	133.41	181.95	185.09		
135.0	144.36	152.25	155.84	159.79	141.75	118.25	114.48	170.37	178.45		
150.0	120.76	129.82	136.73	143.28	128.66	105.33	93.58	158.80	169.57		
165.0	101.38	112.24	121.12	129.82	119.24	96.27	83.62	145.16	163.56		
180.0	99.41	109.01	118.88	121.03	111.16	108.74	153.24	165.62	175.13		
195.0	90.53	100.75	110.35	116.54	113.67	113.85	152.07	165.80	174.68		
210.0	85.50	87.74	106.14	114.48	117.80	124.17	152.43	164.09	174.32		
225.0	82.63	93.58	104.25	114.57	122.64	131.80	151.98	162.66	173.52		
240.0	81.64	92.86	104.61	116.10	126.23	137.45	151.53	162.84	173.52		
255.0	83.26	94.83	106.67	117.89	129.64	140.95	153.06	163.29	173.60		
270.0	86.94	98.24	109.73	121.75	133.50	144.27	154.94	164.81	174.23		
285.0	94.11	105.24	116.10	127.49	138.79	149.47	158.53	167.77	175.13		
300.0	103.53	114.48	125.52	136.19	146.60	155.57	163.92	170.91	176.66		
315.0	116.63	126.77	137.00	146.69	155.75	163.47	170.46	175.04	178.00		
330.0	133.23	142.74	151.71	159.88	167.06	173.07	177.46	179.89	179.53		
345.0	154.58	162.21	168.94	174.77	179.71	183.20	184.46	183.03	178.36		
360.0	169.57	175.76	181.32	185.54	188.50	190.02	190.74	189.04	185.72		

Intensity data(cd)

C/ γ (°)	180.0
0.0	175.94
15.0	182.04
30.0	182.67
45.0	183.29
60.0	184.01
75.0	183.38
90.0	182.67
105.0	182.49
120.0	181.68
135.0	180.24
150.0	176.83
165.0	171.72
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	175.94