
弗格斯莱

Client:

LumCAT: OBRP2432LAJUDSN

Luminaire: LED Lamp

Report No:

Ballast type:

Test No: LCZP25070049

Voltage(V): 119.940

LampCAT:

Current(A): 0.413

Lamp flux(lm): 2369.5

Power (W): 49.210

Number of Lamps: 1

PF: 0.993

Length(mm): -800

Width(mm): -800

Phm Type: C

Height(mm): 40

Photometric Results

Lumens(lm): 2369.51, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 48.15

Central intensity(cd): 267.629, Maximum intensity(cd): 381.213

Angle of maximum intensity: C=60.0 γ =145.0

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=1.22 C90_270=1.85

Maximum s/h(1/4): C0_180=1.37 C90_270=1.99

Up flux rate of lamp(%): 51.36%

Down flux rate of lamp(%): 48.64%

Up flux rate of LUM(%): 51.36%

Down flux rate of LUM(%): 48.64%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 29.851%

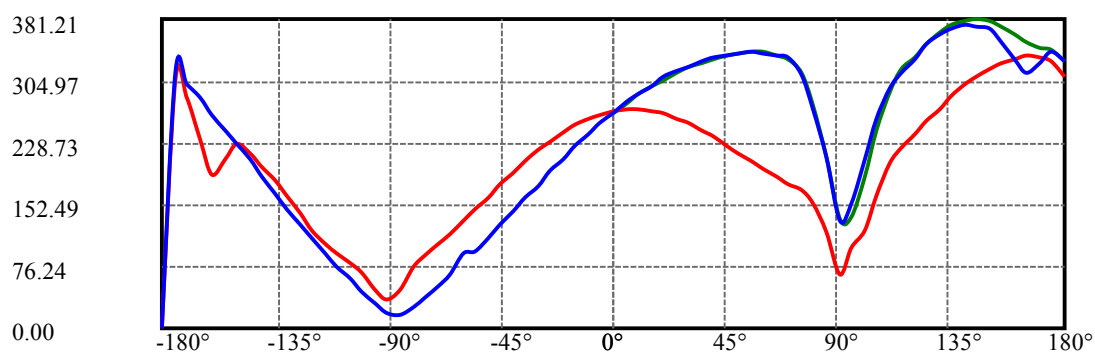
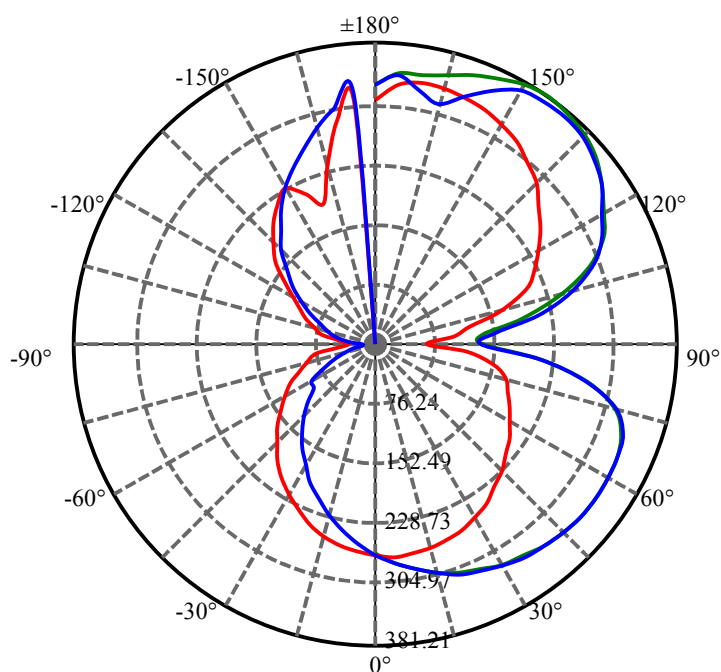
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	267.413	0.000	0	0.00%	0.00%
5.0	266.332	6.381	6.381	0.27%	0.27%
10.0	264.209	18.979	25.36	0.80%	1.07%
15.0	260.673	31.136	56.496	1.31%	2.38%
20.0	256.299	42.606	99.101	1.80%	4.18%
25.0	250.045	53.106	152.207	2.24%	6.42%
30.0	243.065	62.403	214.611	2.63%	9.06%
35.0	235.271	70.438	285.049	2.97%	12.03%
40.0	226.998	77.126	362.175	3.25%	15.28%
45.0	217.107	82.230	444.405	3.47%	18.76%
50.0	207.380	85.774	530.179	3.62%	22.38%
55.0	197.481	88.030	618.209	3.72%	26.09%
60.0	187.997	89.102	707.311	3.76%	29.85%
65.0	177.201	88.780	796.091	3.75%	33.60%
70.0	166.741	87.088	883.18	3.68%	37.27%
75.0	154.872	84.065	967.244	3.55%	40.82%
80.0	133.721	77.220	1044.464	3.26%	44.08%
85.0	98.769	63.173	1107.637	2.67%	46.75%
90.0	65.397	44.950	1152.587	1.90%	48.64%
95.0	80.997	40.084	1192.671	1.69%	50.33%
100.0	108.944	51.612	1244.282	2.18%	52.51%
105.0	138.891	66.314	1310.596	2.80%	55.31%
110.0	163.321	78.993	1389.59	3.33%	58.64%
115.0	181.605	87.337	1476.927	3.69%	62.33%
120.0	198.195	92.330	1569.257	3.90%	66.23%
125.0	216.501	95.856	1665.113	4.05%	70.27%
130.0	233.664	97.881	1762.994	4.13%	74.40%
135.0	249.162	97.562	1860.556	4.12%	78.52%
140.0	262.545	94.747	1955.302	4.00%	82.52%
145.0	275.427	89.757	2045.059	3.79%	86.31%
150.0	284.549	82.460	2127.52	3.48%	89.79%
155.0	285.891	72.190	2199.709	3.05%	92.83%
160.0	281.928	59.554	2259.263	2.51%	95.35%
165.0	286.429	46.841	2306.104	1.98%	97.32%
170.0	306.380	35.165	2341.269	1.48%	98.81%
175.0	321.602	22.465	2363.734	0.95%	99.76%
180.0	161.354	5.774	2369.507	0.24%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	214.61	9.06%	9.06%
0-40	362.18	15.28%	15.28%
0-60	707.31	29.85%	29.85%
0-90	1152.59	48.64%	48.64%
0-120	1569.26	66.23%	66.23%
0-180	2369.51	100.00%	100.00%
60-90	445.28	18.79%	18.79%
90-120	416.67	17.58%	17.58%
90-130	610.41	25.76%	25.76%
90-150	974.93	41.14%	41.14%
90-180	1211.15	51.11%	51.11%
0-136.85	1895.61	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	25.36
10-20	73.74
20-30	115.51
30-40	147.56
40-50	168.00
50-60	177.13
60-70	175.87
70-80	161.28
80-90	108.12
90-100	91.70
100-110	145.31
110-120	179.67
120-130	193.74
130-140	192.31
140-150	172.22
150-160	131.74
160-170	82.01
170-180	22.46



C60(Max):

C0/C180:

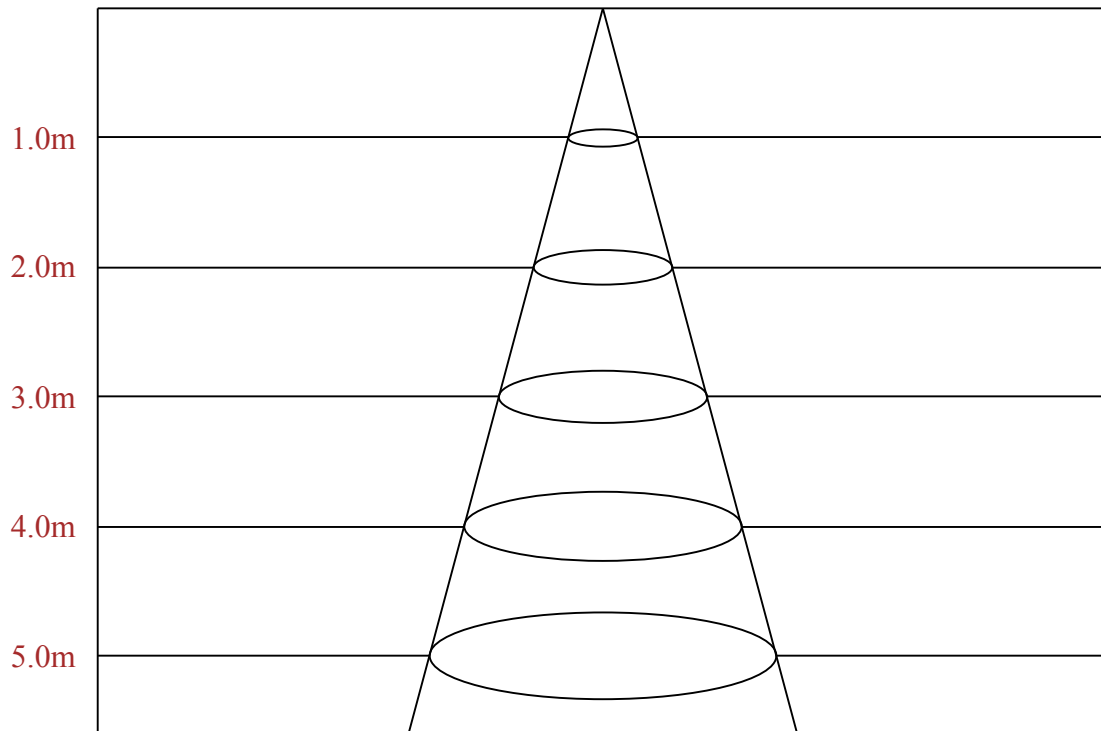
C90/C270:

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

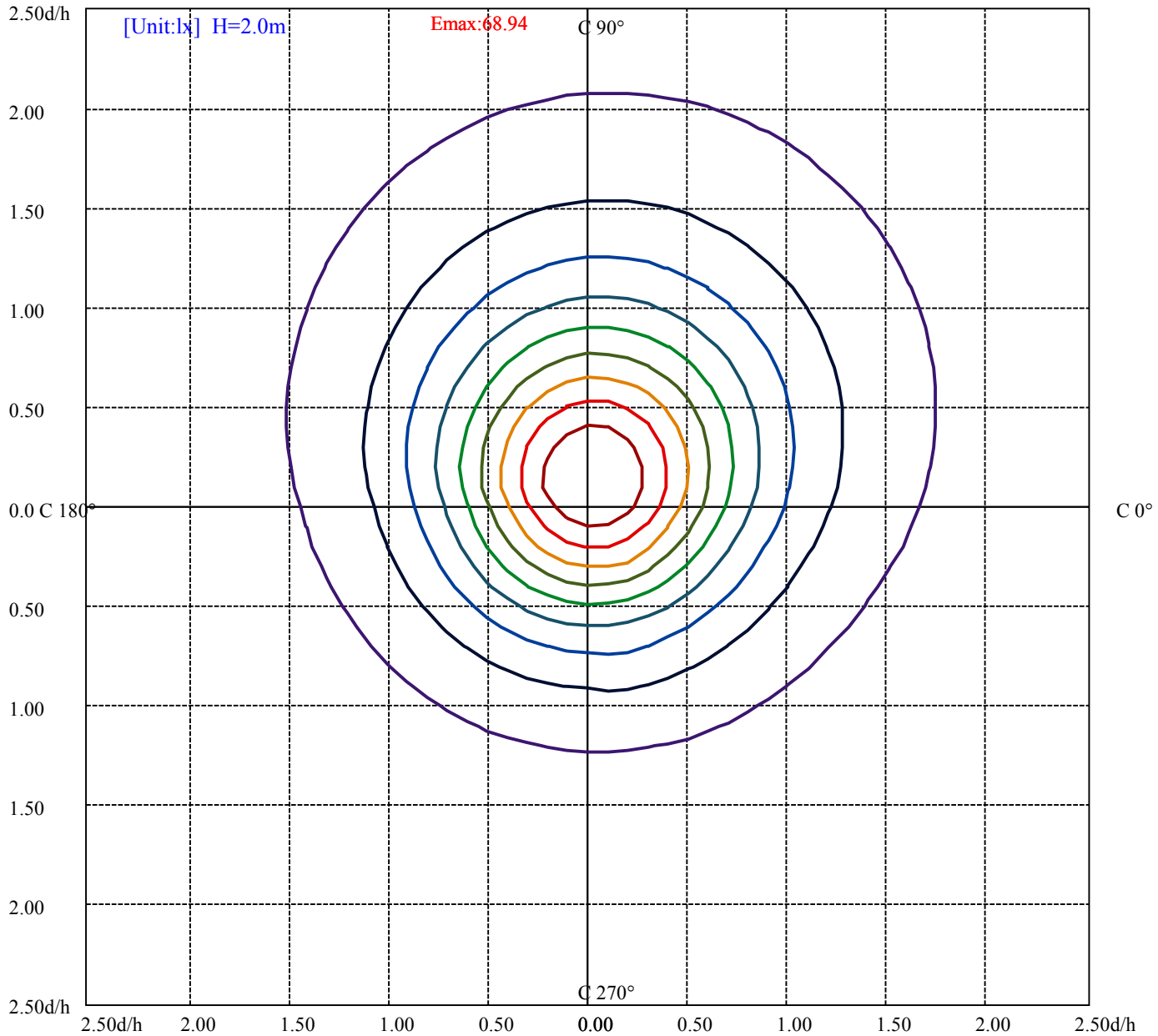
:C90/270Left:0.0 Right:0.0

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

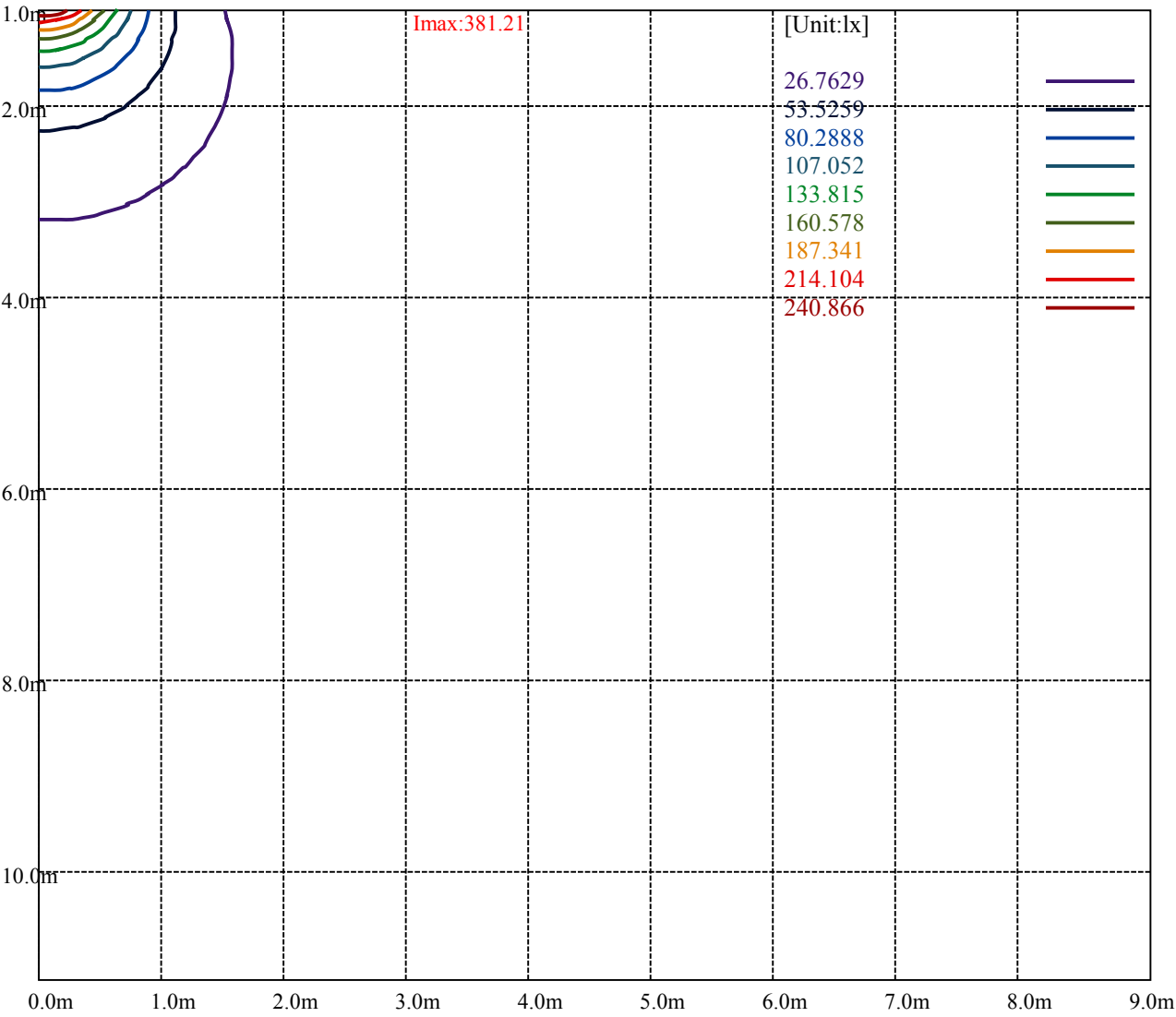
:C90/270Left:0.0 Right:0.0



Max , Ave Beam angle of C60 plane 225.82



(10%Emax)	6.894475	—
(20%Emax)	13.78893	—
(30%Emax)	20.6834	—
(40%Emax)	27.57775	—
(50%Emax)	34.47225	—
(60%Emax)	41.36675	—
(70%Emax)	48.26125	—
(80%Emax)	55.15575	—
(90%Emax)	62.05025	—



Luminance Table

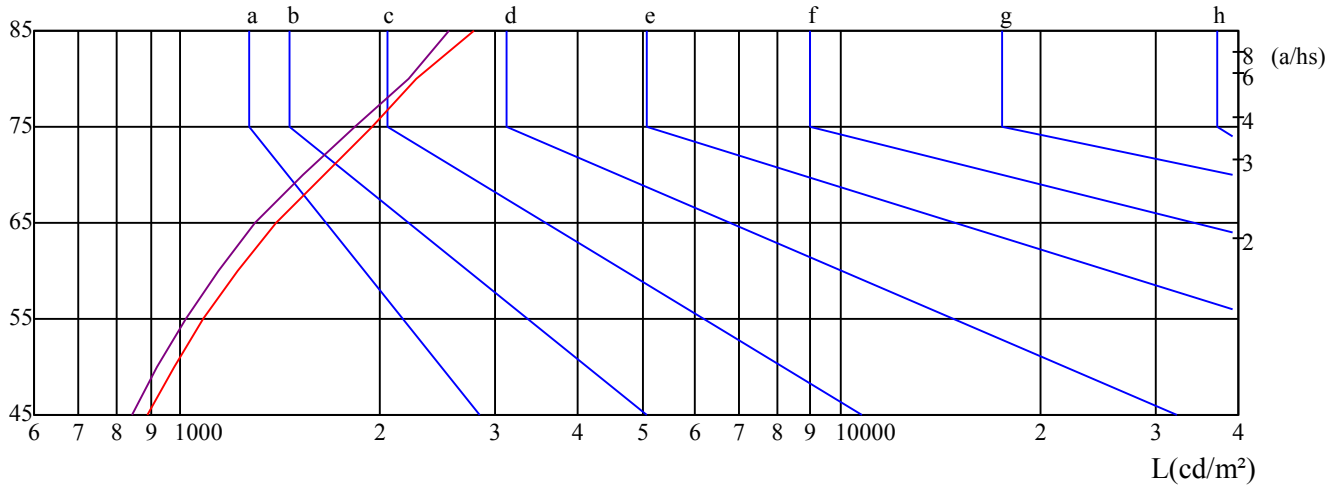
γ	45	50	55	60	65	70	75	80	85
C0	597	620	656	705	779	878	1066	1291	1549
C45	842	919	1017	1144	1295	1531	1841	2222	2544
C90	891	976	1081	1217	1394	1647	1947	2268	2777

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
718	947	834	1007	1350	1199	1884	2591	2279

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	0.98	0.98	0.98	0.83	0.83	0.83	0.68	0.68	0.68	0.55	0.55	0.55	0.49
1	0.90	0.85	0.81	0.83	0.78	0.75	0.69	0.66	0.63	0.56	0.54	0.52	0.45	0.43	0.42	0.36
2	0.77	0.70	0.64	0.71	0.64	0.59	0.59	0.54	0.50	0.48	0.45	0.41	0.38	0.35	0.33	0.28
3	0.67	0.59	0.52	0.61	0.54	0.48	0.51	0.46	0.41	0.42	0.37	0.34	0.33	0.30	0.27	0.23
4	0.59	0.50	0.43	0.54	0.46	0.40	0.45	0.39	0.34	0.37	0.32	0.28	0.29	0.25	0.23	0.19
5	0.52	0.43	0.37	0.48	0.40	0.34	0.40	0.34	0.29	0.32	0.28	0.24	0.26	0.22	0.19	0.16
6	0.46	0.38	0.31	0.43	0.35	0.29	0.36	0.29	0.25	0.29	0.24	0.21	0.23	0.19	0.17	0.14
7	0.42	0.33	0.27	0.38	0.31	0.25	0.32	0.26	0.22	0.26	0.22	0.18	0.21	0.17	0.15	0.12
8	0.38	0.29	0.24	0.35	0.27	0.22	0.29	0.23	0.19	0.24	0.19	0.16	0.19	0.16	0.13	0.10
9	0.34	0.26	0.21	0.32	0.24	0.20	0.27	0.21	0.17	0.22	0.17	0.14	0.18	0.14	0.12	0.09
10	0.31	0.24	0.19	0.29	0.22	0.17	0.24	0.19	0.15	0.20	0.16	0.13	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	267.63	269.51	269.60	267.63	264.22	258.93	252.65	244.84	235.87		
15.0	266.10	271.85	275.08	276.96	277.14	276.24	273.64	270.23	265.12		
30.0	265.75	273.82	280.55	285.57	289.70	292.21	293.83	294.10	293.56		
45.0	265.92	275.79	285.21	293.11	300.02	306.03	310.25	314.28	316.97		
60.0	265.30	277.14	288.09	297.95	306.39	314.28	321.28	327.11	332.14		
75.0	265.30	278.13	289.25	300.02	309.71	318.50	326.22	332.50	338.24		
90.0	266.28	278.31	289.70	299.48	309.17	316.62	323.17	329.09	333.66		
105.0	266.91	278.13	287.64	296.25	303.25	309.35	314.10	317.78	319.94		
120.0	267.45	276.69	284.41	290.51	295.08	297.86	299.39	299.66	298.40		
135.0	273.46	274.99	280.10	282.79	284.05	283.51	281.27	277.41	272.56		
150.0	268.89	272.74	274.63	274.09	269.06	267.63	262.16	254.53	245.11		
165.0	269.96	270.59	269.06	265.48	259.73	252.65	243.58	232.82	219.27		
180.0	267.63	263.86	258.21	250.76	241.61	230.67	219.18	205.90	191.55		
195.0	266.10	259.64	251.48	241.34	229.59	216.67	202.67	187.87	172.53		
210.0	265.75	256.32	245.47	233.27	219.99	206.35	191.46	175.85	159.79		
225.0	265.92	254.08	242.06	228.69	214.34	199.08	183.38	167.95	151.00		
240.0	265.30	252.65	239.01	224.56	210.30	193.61	178.27	161.76	145.34		
255.0	265.30	252.56	237.84	223.40	207.88	191.82	175.58	158.98	143.10		
270.0	266.28	252.92	239.01	223.94	208.51	193.25	176.12	160.51	143.82		
285.0	266.91	254.80	241.34	226.63	212.36	196.66	180.78	165.44	160.69		
300.0	267.45	256.86	244.84	231.74	228.60	203.30	187.78	171.99	156.02		
315.0	273.46	259.64	249.95	238.47	226.18	212.09	198.19	182.94	167.32		
330.0	268.89	263.59	255.79	246.73	236.05	224.47	211.02	196.75	182.76		
345.0	269.96	267.36	262.69	256.77	248.25	239.28	227.62	216.22	203.21		
360.0	267.63	269.51	269.60	267.63	264.22	258.93	252.65	244.84	235.87		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	225.82	215.50	206.17	196.75	188.05	177.28	171.63	153.42	117.26		
15.0	259.29	252.83	246.64	239.82	233.72	222.14	222.59	198.19	147.05		
30.0	291.67	289.61	286.92	284.05	278.31	269.96	267.72	240.62	176.30		
45.0	318.50	319.49	319.94	319.22	312.67	309.26	296.34	263.95	192.54		
60.0	335.37	338.51	340.48	340.12	336.80	330.97	315.36	274.18	210.12		
75.0	342.28	345.68	347.66	347.57	345.33	339.58	322.36	278.40	212.63		
90.0	336.98	339.22	339.94	339.49	336.44	332.76	313.48	269.42	210.21		
105.0	321.01	320.92	319.40	316.71	312.85	308.09	293.02	252.56	195.41		
120.0	295.71	292.66	288.09	282.52	276.69	270.32	259.91	226.00	175.04		
135.0	266.10	258.48	249.78	241.52	233.36	225.55	216.67	189.04	148.75		
150.0	235.15	223.67	212.54	200.70	190.83	180.33	170.46	150.91	118.52		
165.0	207.79	193.61	179.53	166.25	153.33	141.22	128.75	114.21	89.63		
180.0	176.66	161.13	145.97	131.53	117.17	104.43	90.26	76.26	47.82		
195.0	156.65	140.32	125.34	108.74	94.29	79.67	65.31	52.22	30.32		
210.0	143.64	127.04	110.80	94.92	79.58	64.60	51.32	38.49	22.88		
225.0	135.47	118.16	102.73	87.12	71.86	56.70	42.62	30.06	18.30		
240.0	129.01	112.69	96.72	81.37	66.93	51.32	38.13	25.75	14.98		
255.0	126.05	110.71	94.92	79.67	64.60	49.97	36.16	33.29	14.53		
270.0	127.67	111.52	95.73	92.32	66.03	51.14	37.77	26.29	16.78		
285.0	132.33	116.19	100.22	84.96	70.70	55.89	43.78	32.48	22.88		
300.0	139.69	124.53	107.57	93.04	78.23	64.78	52.57	42.26	31.40		
315.0	151.35	135.21	119.50	104.79	90.79	78.86	68.28	56.07	39.83		
330.0	166.61	152.43	138.17	125.07	111.97	101.38	91.15	78.23	51.14		
345.0	189.75	177.01	164.81	153.69	142.29	135.56	121.30	107.03	66.12		
360.0	225.82	215.50	206.17	196.75	188.05	177.28	171.63	153.42	117.26		

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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	65.76	100.22	119.77	163.83	204.38	221.78	238.47	255.43	270.32	
15.0	90.35	111.97	140.23	184.01	232.64	259.20	274.90	291.58	303.79	
30.0	108.02	120.76	158.44	208.59	257.40	288.62	308.81	322.36	334.38	
45.0	120.31	135.38	174.77	229.41	281.09	311.68	330.70	343.62	355.10	
60.0	135.12	136.37	186.17	243.23	290.33	320.02	335.01	350.71	364.70	
75.0	142.47	139.24	199.62	253.10	296.43	319.94	339.31	351.87	364.61	
90.0	133.50	154.49	208.68	257.13	295.53	315.27	330.70	350.35	361.83	
105.0	119.50	143.37	186.70	228.51	257.22	278.66	292.66	313.39	325.59	
120.0	106.14	115.38	156.74	195.59	221.16	234.43	256.06	273.82	290.33	
135.0	87.56	97.61	127.40	161.76	182.04	193.79	211.47	229.59	249.60	
150.0	68.81	78.32	103.53	132.60	145.07	156.38	166.52	188.59	209.49	
165.0	50.60	57.15	79.76	101.65	111.97	122.73	133.68	154.14	176.48	
180.0	34.72	47.01	69.26	80.84	92.59	103.89	121.57	142.47	163.92	
195.0	24.04	38.40	56.61	69.26	78.68	95.37	114.75	131.80	152.16	
210.0	16.60	34.63	50.96	63.25	74.02	90.44	109.19	126.50	146.06	
225.0	13.91	32.30	46.47	59.48	73.30	89.45	94.38	124.98	143.28	
240.0	15.16	31.49	34.63	57.69	73.66	89.63	106.59	123.45	142.02	
255.0	17.76	30.41	43.60	58.86	73.21	88.91	106.67	124.80	143.82	
270.0	17.76	31.85	46.03	60.83	75.54	92.05	110.26	128.12	147.23	
285.0	22.70	38.58	52.13	67.02	81.82	98.24	116.90	136.10	155.39	
300.0	30.86	48.00	64.24	78.86	94.02	110.89	128.39	149.11	167.68	
315.0	37.77	59.75	81.46	96.54	113.04	129.01	146.78	166.25	185.90	
330.0	46.74	71.60	104.25	123.72	140.14	156.65	174.23	191.82	212.36	
345.0	63.34	89.63	123.18	157.63	174.41	191.46	208.68	225.19	241.88	
360.0	65.76	100.22	119.77	163.83	204.38	221.78	238.47	255.43	270.32	
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0	
0.0	286.92	299.84	311.23	319.76	326.39	331.51	335.10	334.47	329.98	
15.0	316.44	328.10	336.44	342.10	345.59	347.39	346.04	342.10	335.55	
30.0	343.80	354.84	360.22	362.46	362.19	359.68	354.84	347.84	339.05	
45.0	364.97	372.15	375.83	375.29	371.07	365.60	357.08	350.08	341.38	
60.0	374.57	378.79	381.21	378.25	370.98	362.28	352.05	346.22	343.08	
75.0	373.41	377.09	377.27	374.48	362.64	349.18	335.64	337.34	342.72	
90.0	370.00	373.95	372.60	368.74	353.76	332.32	313.83	325.86	340.30	
105.0	335.46	340.66	342.72	342.10	326.48	301.36	281.80	307.64	335.46	
120.0	301.36	310.96	315.72	318.95	302.44	270.32	250.13	286.02	326.48	
135.0	263.68	276.42	285.84	293.20	281.63	244.21	218.73	267.63	314.55	
150.0	227.44	241.61	254.80	266.73	259.38	225.28	190.92	244.48	302.17	
165.0	195.05	211.82	228.15	243.67	241.52	207.34	175.22	223.49	287.64	
180.0	181.14	198.55	214.79	226.18	207.97	188.41	231.92	284.95	305.94	
195.0	170.11	188.05	205.28	213.26	204.74	199.35	244.48	293.47	312.85	
210.0	164.27	168.31	199.62	207.70	209.40	212.81	254.98	296.43	312.85	
225.0	160.78	179.80	197.20	208.24	216.85	228.96	264.31	297.24	312.85	
240.0	160.86	179.71	198.91	214.52	228.87	244.30	271.22	297.15	313.65	
255.0	163.11	181.68	202.67	220.17	237.66	255.43	278.40	298.04	314.01	
270.0	166.88	186.97	207.43	226.99	245.02	263.95	284.05	300.74	315.54	
285.0	175.40	195.59	215.05	234.70	254.08	272.74	289.52	303.97	316.53	
300.0	187.87	208.15	228.15	246.19	265.92	282.25	297.33	309.17	318.41	
315.0	205.99	225.64	244.30	262.69	279.29	293.83	305.40	314.37	319.94	
330.0	231.02	248.25	265.21	280.91	294.63	306.57	315.54	320.29	320.38	
345.0	259.38	274.18	289.61	301.90	312.85	321.19	325.77	324.15	317.15	
360.0	286.92	299.84	311.23	319.76	326.39	331.51	335.10	334.47	329.98	

Intensity data(cd)

C/γ(°)	180.0
0.0	309.26
15.0	325.32
30.0	326.13
45.0	327.92
60.0	328.55
75.0	329.09
90.0	328.37
105.0	327.83
120.0	325.59
135.0	321.73
150.0	314.55
165.0	308.18
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	309.26