
弗格斯莱

Client:

LumCAT: OBRP2432LAJUDLB

Luminaire: LED Lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.030

LampCAT:

Current(A): 0.413

Lamp flux(lm): 2331.9

Power (W): 49.190

Number of Lamps: 1

PF: 0.993

Length(mm): -800

Width(mm): -800

Phm Type: C

Height(mm): 40

Photometric Results

Lumens(lm): 2331.91, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 47.41

Central intensity(cd): 263.772, Maximum intensity(cd): 375.022

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 : 29.849%

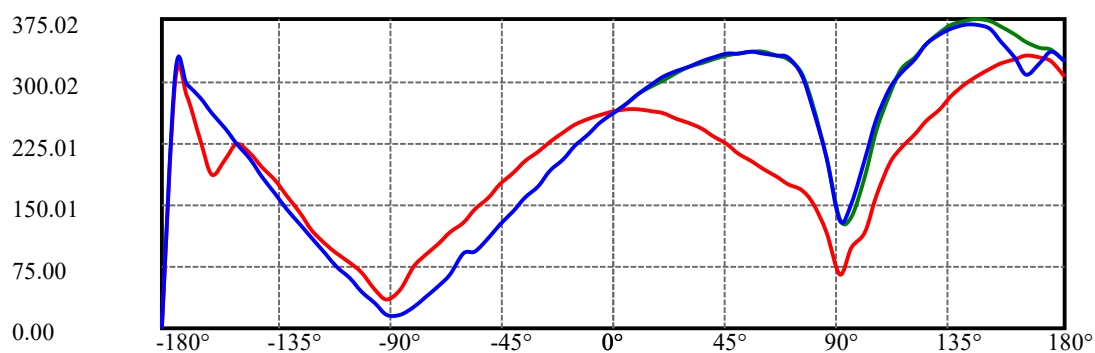
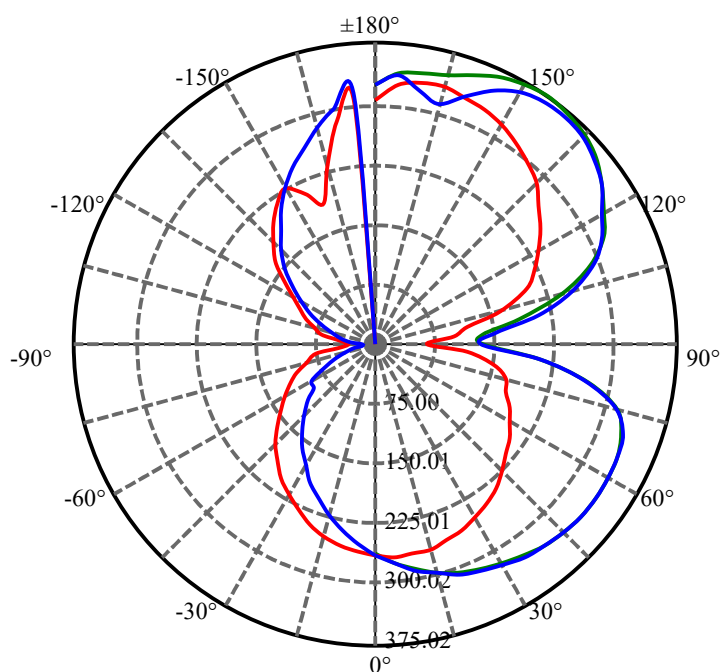
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	263.248	0.000	0	0.00%	0.00%
5.0	262.127	6.281	6.281	0.27%	0.27%
10.0	260.071	18.681	24.961	0.80%	1.07%
15.0	256.669	30.653	55.614	1.31%	2.38%
20.0	252.295	41.946	97.56	1.80%	4.18%
25.0	246.052	52.267	149.827	2.24%	6.43%
30.0	239.136	61.401	211.228	2.63%	9.06%
35.0	231.548	69.312	280.54	2.97%	12.03%
40.0	223.398	75.904	356.444	3.26%	15.29%
45.0	213.679	80.928	437.372	3.47%	18.76%
50.0	203.997	84.397	521.77	3.62%	22.38%
55.0	194.352	86.614	608.384	3.71%	26.09%
60.0	184.932	87.670	696.055	3.76%	29.85%
65.0	174.352	87.343	783.397	3.75%	33.59%
70.0	164.110	85.701	869.098	3.68%	37.27%
75.0	152.446	82.743	951.841	3.55%	40.82%
80.0	131.624	76.009	1027.85	3.26%	44.08%
85.0	97.083	62.145	1089.995	2.66%	46.74%
90.0	64.186	44.157	1134.152	1.89%	48.64%
95.0	79.774	39.417	1173.569	1.69%	50.33%
100.0	107.176	50.799	1224.368	2.18%	52.50%
105.0	136.820	65.287	1289.654	2.80%	55.30%
110.0	160.670	77.759	1367.414	3.33%	58.64%
115.0	178.838	85.966	1453.38	3.69%	62.33%
120.0	195.137	90.914	1544.294	3.90%	66.22%
125.0	213.081	94.358	1638.652	4.05%	70.27%
130.0	230.015	96.344	1734.996	4.13%	74.40%
135.0	245.192	96.023	1831.018	4.12%	78.52%
140.0	258.388	93.242	1924.261	4.00%	82.52%
145.0	271.061	88.335	2012.595	3.79%	86.31%
150.0	280.033	81.152	2093.748	3.48%	89.79%
155.0	281.416	71.052	2164.8	3.05%	92.83%
160.0	277.491	58.619	2223.419	2.51%	95.35%
165.0	281.865	46.099	2269.517	1.98%	97.32%
170.0	301.528	34.606	2304.124	1.48%	98.81%
175.0	316.406	22.105	2326.229	0.95%	99.76%
180.0	158.801	5.681	2331.91	0.24%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	211.23	9.06%	9.06%
0-40	356.44	15.29%	15.29%
0-60	696.05	29.85%	29.85%
0-90	1134.15	48.64%	48.64%
0-120	1544.29	66.22%	66.22%
0-180	2331.91	100.00%	100.00%
60-90	438.10	18.79%	18.79%
90-120	410.14	17.59%	17.59%
90-130	600.84	25.77%	25.77%
90-150	959.60	41.15%	41.15%
90-180	1192.08	51.12%	51.12%
0-136.85	1865.53	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	24.96
10-20	72.60
20-30	113.67
30-40	145.22
40-50	165.33
50-60	174.28
60-70	173.04
70-80	158.75
80-90	106.30
90-100	90.22
100-110	143.05
110-120	176.88
120-130	190.70
130-140	189.26
140-150	169.49
150-160	129.67
160-170	80.71
170-180	22.11



C60(Max):

C0/C180:

C90/C270:

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

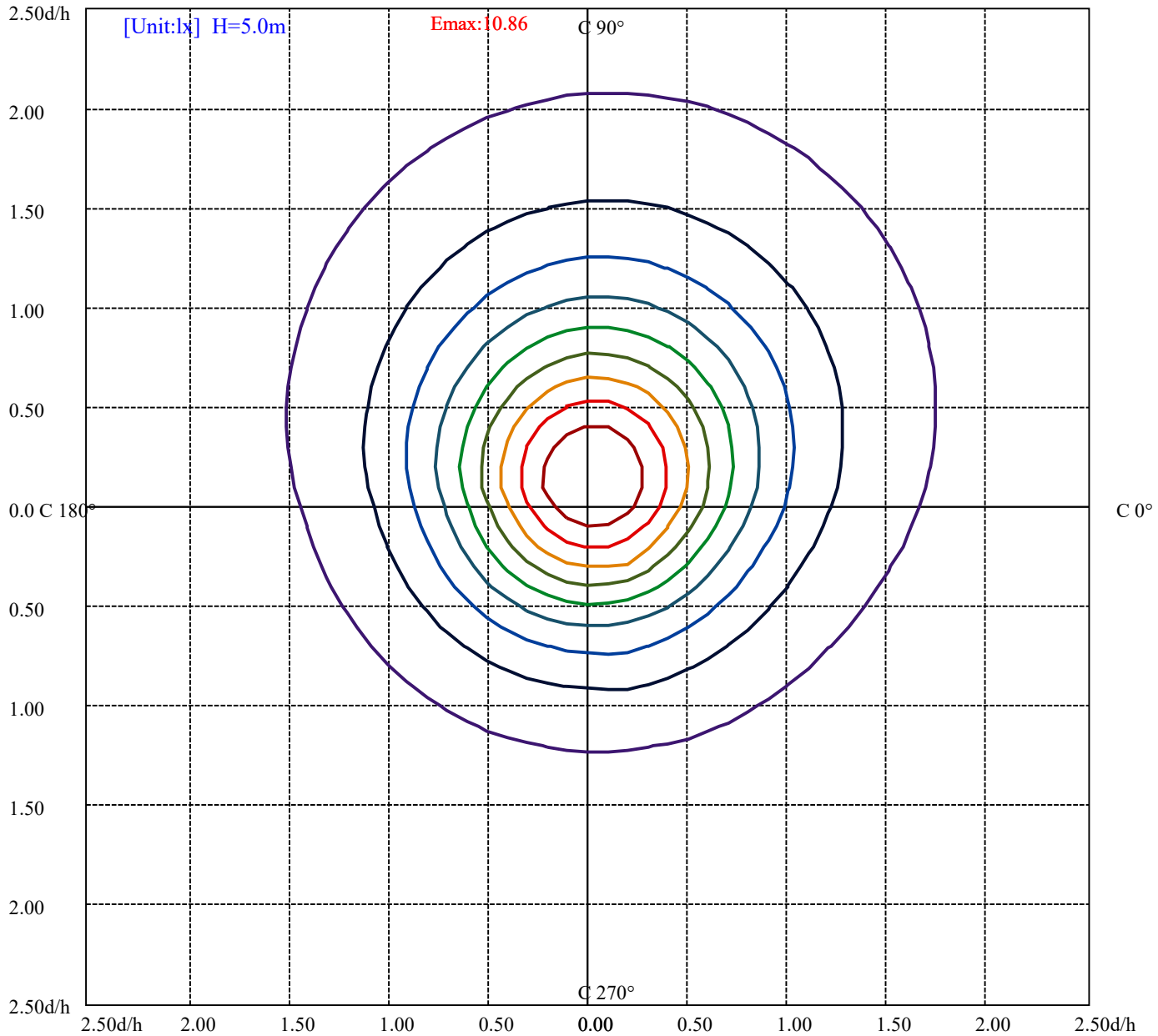
:C90/270Left:0.0 Right:0.0

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

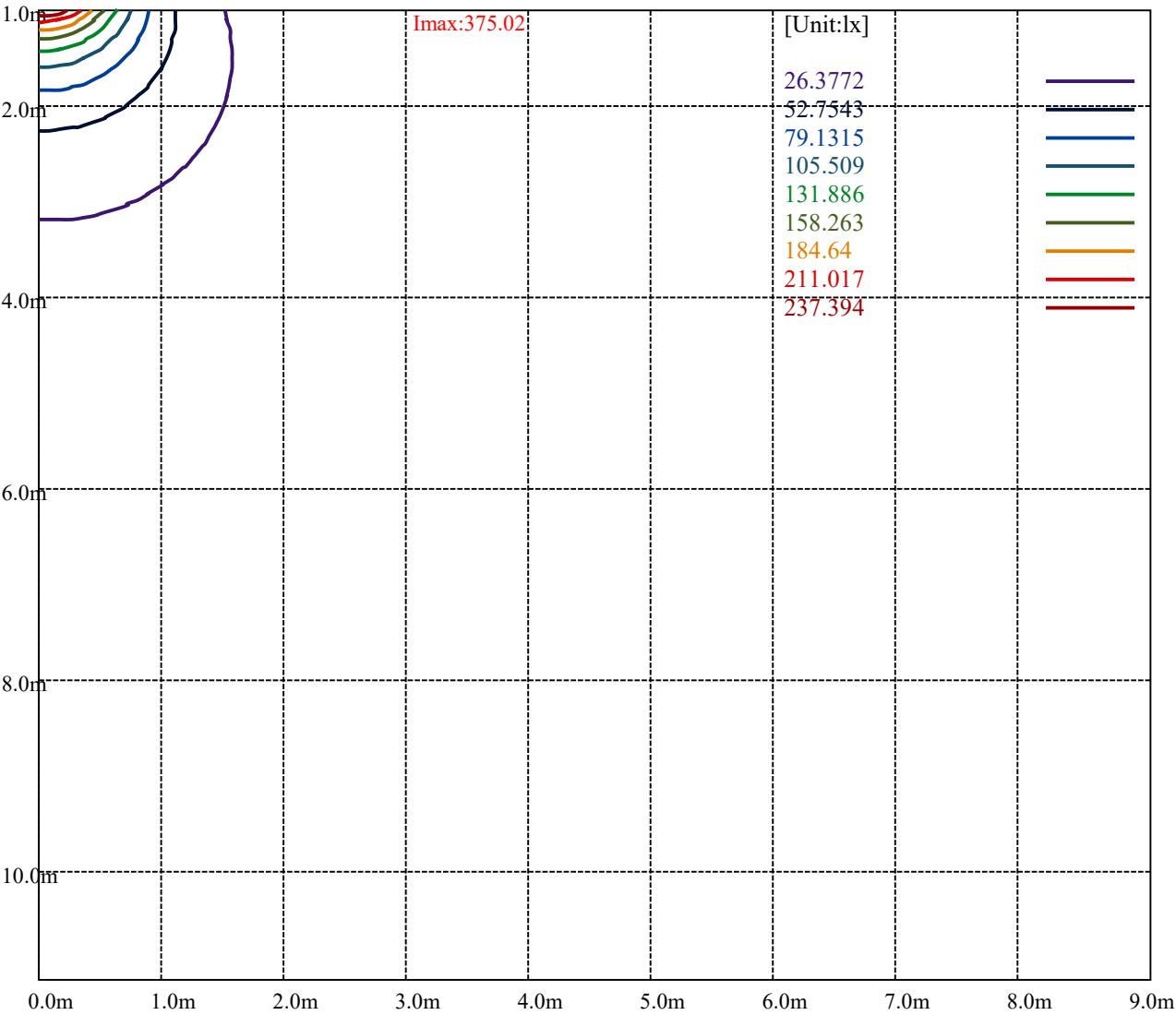
:C90/270Left:0.0 Right:0.0



Max , Ave Beam angle of C60 plane 225.97



(10%Emax) 1.085756	—
(20%Emax) 2.171516	—
(30%Emax) 3.257272	—
(40%Emax) 4.34304	—
(50%Emax) 5.4288	—
(60%Emax) 6.51456	—
(70%Emax) 7.60032	—
(80%Emax) 8.68608	—
(90%Emax) 9.7718	—



Luminance Table

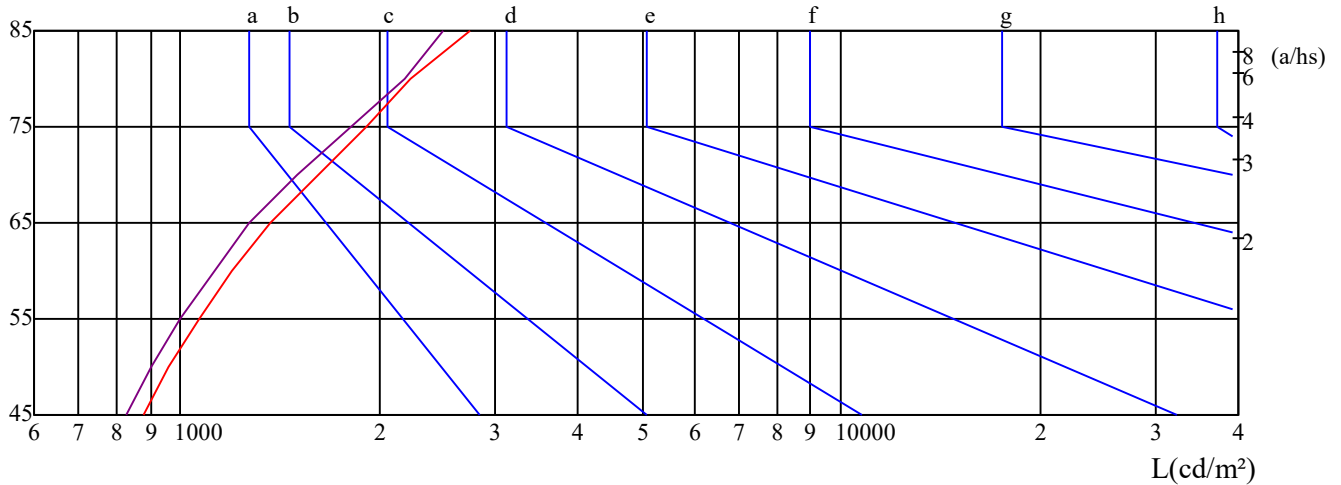
γ	45	50	55	60	65	70	75	80	85
C0	589	609	645	694	766	862	1048	1269	1529
C45	828	903	1001	1125	1275	1506	1811	2190	2501
C90	878	960	1064	1196	1371	1621	1917	2235	2738

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
707	931	821	990	1328	1181	1853	2550	2242

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	263.77	265.57	265.57	263.77	260.18	254.80	248.52	241.34	232.37		
15.0	261.98	267.36	270.95	272.74	272.74	271.85	269.15	265.57	261.08		
30.0	261.98	269.15	276.33	280.82	285.30	288.00	288.89	289.79	288.89		
45.0	261.98	271.85	280.82	288.89	295.17	301.45	305.04	309.53	312.22		
60.0	261.08	272.74	283.51	293.38	301.45	309.53	315.81	322.09	326.57		
75.0	261.08	273.64	284.41	295.17	305.04	313.12	321.19	327.47	332.85		
90.0	261.98	273.64	285.30	295.17	304.14	311.32	317.60	323.88	328.37		
105.0	262.87	273.64	283.51	291.58	298.76	304.14	309.53	313.12	314.91		
120.0	262.87	272.74	279.92	286.20	290.69	293.38	294.28	295.17	293.38		
135.0	269.15	270.95	275.43	278.13	279.92	279.02	277.23	272.74	268.26		
150.0	264.67	268.26	270.05	270.05	264.67	263.77	258.39	250.31	241.34		
165.0	265.57	266.46	264.67	261.08	255.70	248.52	239.55	228.78	216.22		
180.0	263.77	259.29	253.90	246.73	237.75	226.99	215.32	202.76	188.41		
195.0	261.98	255.70	247.62	237.75	226.09	213.53	199.17	184.82	169.57		
210.0	261.98	252.11	241.34	229.68	216.22	202.76	188.41	173.16	157.01		
225.0	261.98	250.31	238.65	225.19	210.84	195.59	180.33	165.08	148.93		
240.0	261.08	248.52	235.06	220.71	207.25	190.20	175.85	158.80	142.65		
255.0	261.08	248.52	234.16	219.81	204.56	188.41	173.16	156.11	140.86		
270.0	261.98	248.52	235.06	220.71	205.45	190.20	173.16	157.90	141.75		
285.0	262.87	251.21	237.75	223.40	209.04	193.79	177.64	162.39	157.90		
300.0	262.87	253.01	241.34	227.88	225.19	200.07	184.82	169.57	153.42		
315.0	269.15	255.70	245.83	235.06	222.50	209.04	194.69	180.33	165.08		
330.0	264.67	259.29	252.11	243.14	232.37	220.71	207.25	193.79	179.44		
345.0	265.57	262.87	258.39	253.01	244.03	235.06	224.30	212.63	200.07		
360.0	263.77	265.57	265.57	263.77	260.18	254.80	248.52	241.34	232.37		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	222.50	211.74	202.76	193.79	184.82	174.05	168.67	150.73	115.74		
15.0	254.80	248.52	243.14	235.96	229.68	218.91	218.91	194.69	144.45		
30.0	287.10	285.30	282.61	279.92	273.64	265.57	263.77	236.86	173.16		
45.0	313.12	314.01	314.91	314.01	307.73	304.14	291.58	260.18	189.31		
60.0	330.16	332.85	334.65	334.65	331.06	325.68	310.43	270.05	206.35		
75.0	336.44	340.03	341.83	341.83	340.03	334.65	317.60	273.64	209.04		
90.0	331.96	333.75	334.65	333.75	331.06	327.47	308.63	265.57	207.25		
105.0	315.81	315.81	314.01	311.32	307.73	303.25	288.00	248.52	192.00		
120.0	290.69	288.00	283.51	278.13	272.74	266.46	255.70	222.50	172.26		
135.0	261.98	254.80	245.83	237.75	229.68	221.60	213.53	185.72	146.24		
150.0	231.47	219.81	209.04	197.38	187.51	177.64	167.77	148.93	116.63		
165.0	204.56	190.20	176.74	163.29	150.73	139.06	126.50	112.15	87.92		
180.0	174.05	158.80	143.55	129.19	115.74	103.18	88.82	75.36	46.65		
195.0	154.32	138.17	122.91	106.76	92.41	78.05	64.60	51.14	29.61		
210.0	141.75	124.71	109.46	93.31	78.05	63.70	50.24	37.68	22.43		
225.0	133.68	116.63	101.38	86.13	70.88	55.63	42.17	29.61	17.94		
240.0	127.40	111.25	95.10	79.85	65.49	50.24	37.68	25.12	14.35		
255.0	123.81	108.56	93.31	78.05	63.70	49.35	35.89	33.20	14.35		
270.0	125.61	109.46	94.20	90.62	64.60	50.24	36.78	26.02	16.15		
285.0	130.09	113.94	98.69	83.44	69.98	54.73	43.06	32.30	22.43		
300.0	137.27	122.91	105.87	91.51	77.16	63.70	52.04	41.27	30.50		
315.0	148.93	132.78	117.53	103.18	89.72	78.05	67.29	55.63	39.48		
330.0	164.18	149.83	136.37	122.91	110.35	99.59	89.72	77.16	50.24		
345.0	186.61	174.05	162.39	151.62	139.96	133.68	119.33	104.97	65.49		
360.0	222.50	211.74	202.76	193.79	184.82	174.05	168.67	150.73	115.74		

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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	64.60	98.69	117.53	161.49	200.97	218.02	235.06	251.21	266.46	
15.0	88.82	110.35	138.17	181.23	228.78	254.80	270.95	287.10	298.76	
30.0	105.87	118.43	156.11	205.45	253.01	284.41	304.14	317.60	329.27	
45.0	118.43	133.68	172.26	226.09	276.33	306.84	325.68	338.24	349.90	
60.0	132.78	134.58	183.03	239.55	285.30	314.91	329.27	345.42	358.87	
75.0	139.96	137.27	196.48	249.42	291.58	314.91	333.75	346.31	358.87	
90.0	130.99	151.62	205.45	253.01	290.69	310.43	325.68	344.52	356.18	
105.0	117.53	140.86	183.92	225.19	253.01	274.54	288.00	308.63	320.29	
120.0	104.07	113.94	154.32	192.89	218.02	230.58	252.11	269.15	285.30	
135.0	86.13	96.00	125.61	158.80	179.44	191.10	208.15	226.09	245.83	
150.0	67.29	77.16	102.28	130.09	142.65	154.32	164.18	185.72	206.35	
165.0	50.24	56.52	78.05	100.48	110.35	121.12	131.89	151.62	174.05	
180.0	34.09	46.65	68.19	79.85	91.51	102.28	119.33	139.96	161.49	
195.0	23.33	37.68	55.63	68.19	77.16	94.20	113.04	130.09	149.83	
210.0	16.15	34.09	50.24	61.91	72.67	88.82	107.66	124.71	143.55	
225.0	13.46	31.40	45.76	58.32	71.77	87.92	93.31	122.91	140.86	
240.0	15.25	31.40	34.09	56.52	72.67	87.92	104.97	121.12	139.96	
255.0	17.05	29.61	43.06	58.32	71.77	87.92	104.97	122.91	141.75	
270.0	17.05	31.40	44.86	60.11	74.47	90.62	108.56	126.50	145.34	
285.0	22.43	37.68	51.14	66.39	80.75	96.90	114.84	133.68	152.52	
300.0	30.50	47.55	62.80	78.05	92.41	109.46	126.50	147.14	165.08	
315.0	36.78	59.21	79.85	95.10	111.25	127.40	144.45	163.29	183.03	
330.0	45.76	70.88	102.28	122.02	138.17	154.32	171.36	188.41	209.04	
345.0	61.91	87.92	121.12	155.21	171.36	188.41	205.45	221.60	237.75	
360.0	64.60	98.69	117.53	161.49	200.97	218.02	235.06	251.21	266.46	
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0	
0.0	282.61	295.17	305.94	314.91	321.19	326.57	330.16	329.27	324.78	
15.0	311.32	322.99	331.06	336.44	340.03	341.83	340.93	336.44	330.16	
30.0	338.24	349.00	354.39	357.08	356.18	354.39	349.00	342.72	333.75	
45.0	358.87	366.05	369.64	369.64	365.15	359.77	351.70	344.52	335.55	
60.0	368.74	373.23	375.02	372.33	365.15	356.18	346.31	340.93	337.34	
75.0	367.84	371.43	371.43	368.74	357.08	343.62	330.16	331.96	337.34	
90.0	364.26	367.84	366.95	362.46	348.11	327.47	308.63	320.29	334.65	
105.0	330.16	335.55	337.34	336.44	321.19	296.97	277.23	302.35	330.16	
120.0	296.97	305.94	310.43	314.01	297.86	266.46	245.83	281.72	321.19	
135.0	259.29	271.85	281.72	288.89	277.23	240.44	215.32	263.77	309.53	
150.0	223.40	237.75	251.21	262.87	255.70	221.60	187.51	240.44	296.97	
165.0	192.00	208.15	224.30	239.55	237.75	203.66	172.26	219.81	283.51	
180.0	178.54	195.59	211.74	222.50	204.56	185.72	227.88	280.82	301.45	
195.0	167.77	184.82	201.87	209.94	201.87	196.48	240.44	288.89	307.73	
210.0	161.49	165.98	196.48	204.56	206.35	209.04	251.21	291.58	307.73	
225.0	157.90	176.74	193.79	204.56	213.53	225.19	260.18	292.48	307.73	
240.0	157.90	176.74	195.59	210.84	225.19	240.44	267.36	292.48	308.63	
255.0	160.60	178.54	199.17	217.12	234.16	251.21	273.64	293.38	308.63	
270.0	164.18	183.92	204.56	223.40	241.34	260.18	279.92	296.07	310.43	
285.0	172.26	192.89	211.74	230.58	250.31	268.26	285.30	298.76	311.32	
300.0	184.82	204.56	224.30	242.24	261.98	278.13	292.48	304.14	313.12	
315.0	202.76	222.50	240.44	258.39	274.54	288.89	300.56	309.53	314.91	
330.0	226.99	244.03	261.08	276.33	289.79	301.45	310.43	314.91	314.91	
345.0	255.70	270.05	285.30	296.97	307.73	315.81	320.29	319.40	312.22	
360.0	282.61	295.17	305.94	314.91	321.19	326.57	330.16	329.27	324.78	

Intensity data(cd)

C/ γ (°)	180.0
0.0	304.14
15.0	320.29
30.0	321.19
45.0	322.99
60.0	322.99
75.0	323.88
90.0	322.99
105.0	322.99
120.0	320.29
135.0	316.71
150.0	309.53
165.0	303.25
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	304.14