
弗格斯莱

Client:

LumCAT: CLSP32LAJUDLB

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.282

Lamp flux(lm): 2132.1

Power (W): 33.790

Number of Lamps: 1

PF: 0.997

Length(mm): 760

Width(mm): 640

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2132.09, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 63.10

Central intensity(cd): 593.150, Maximum intensity(cd): 593.150

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=120.0

[C90/270]Total=121.6

Field angle(10%Imax): [C0/180]Total=204.8

[C90/270]Total=193.0

Maximum s/h(1/2): C0_180=1.27 C90_270=1.26

Maximum s/h(1/4): C0_180=1.40 C90_270=1.39

Up flux rate of lamp(%): 7.97%

Down flux rate of lamp(%): 92.03%

Up flux rate of LUM(%): 7.97%

Down flux rate of LUM(%): 92.03%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 64.319%

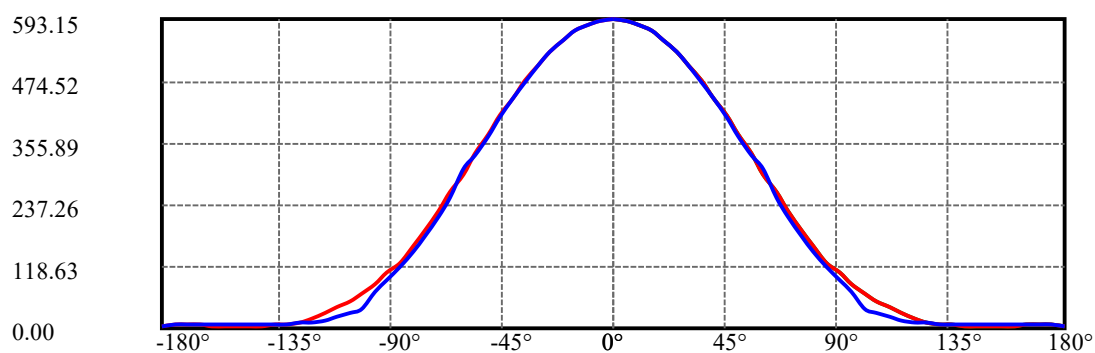
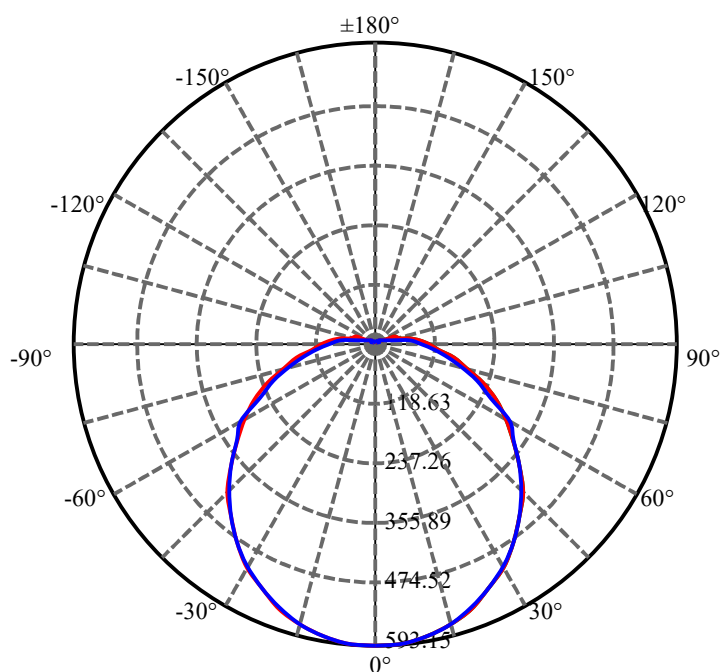
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	593.150	0.000	0	0.00%	0.00%
5.0	590.429	14.149	14.149	0.66%	0.66%
10.0	582.763	41.969	56.118	1.97%	2.63%
15.0	570.152	68.390	124.508	3.21%	5.84%
20.0	552.859	92.552	217.06	4.34%	10.18%
25.0	530.706	113.646	330.706	5.33%	15.51%
30.0	504.792	131.043	461.749	6.15%	21.66%
35.0	474.702	144.237	605.987	6.77%	28.42%
40.0	443.195	153.144	759.131	7.18%	35.61%
45.0	407.083	157.436	916.567	7.38%	42.99%
50.0	370.054	157.032	1073.599	7.37%	50.35%
55.0	332.296	152.714	1226.313	7.16%	57.52%
60.0	295.154	145.033	1371.346	6.80%	64.32%
65.0	256.086	134.008	1505.354	6.29%	70.60%
70.0	219.558	120.436	1625.79	5.65%	76.25%
75.0	185.597	105.901	1731.691	4.97%	81.22%
80.0	156.197	91.455	1823.146	4.29%	85.51%
85.0	126.991	76.949	1900.095	3.61%	89.12%
90.0	99.889	62.121	1962.216	2.91%	92.03%
95.0	77.950	48.694	2010.91	2.28%	94.32%
100.0	53.904	35.828	2046.738	1.68%	96.00%
105.0	39.535	25.002	2071.74	1.17%	97.17%
110.0	28.383	17.753	2089.492	0.83%	98.00%
115.0	19.611	12.153	2101.645	0.57%	98.57%
120.0	13.829	8.129	2109.774	0.38%	98.95%
125.0	10.574	5.641	2115.415	0.26%	99.22%
130.0	7.932	4.024	2119.439	0.19%	99.41%
135.0	6.210	2.858	2122.297	0.13%	99.54%
140.0	5.177	2.108	2124.405	0.10%	99.64%
145.0	4.870	1.676	2126.081	0.08%	99.72%
150.0	4.870	1.434	2127.515	0.07%	99.79%
155.0	5.023	1.252	2128.767	0.06%	99.84%
160.0	5.368	1.090	2129.857	0.05%	99.90%
165.0	5.750	0.916	2130.773	0.04%	99.94%
170.0	6.326	0.716	2131.49	0.03%	99.97%
175.0	6.939	0.475	2131.964	0.02%	99.99%
180.0	3.526	0.125	2132.089	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	461.75	21.66%	21.66%
0-40	759.13	35.61%	35.61%
0-60	1371.35	64.32%	64.32%
0-90	1962.22	92.03%	92.03%
0-120	2109.77	98.95%	98.95%
0-180	2132.09	100.00%	100.00%
60-90	590.87	27.71%	27.71%
90-120	147.56	6.92%	6.92%
90-130	157.22	7.37%	7.37%
90-150	165.30	7.75%	7.75%
90-180	169.75	7.96%	7.96%
0-73.77	1705.67	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	56.12
10-20	160.94
20-30	244.69
30-40	297.38
40-50	314.47
50-60	297.75
60-70	254.44
70-80	197.36
80-90	139.07
90-100	84.52
100-110	42.75
110-120	20.28
120-130	9.66
130-140	4.97
140-150	3.11
150-160	2.34
160-170	1.63
170-180	0.47



C0(Max):

C0/C180:

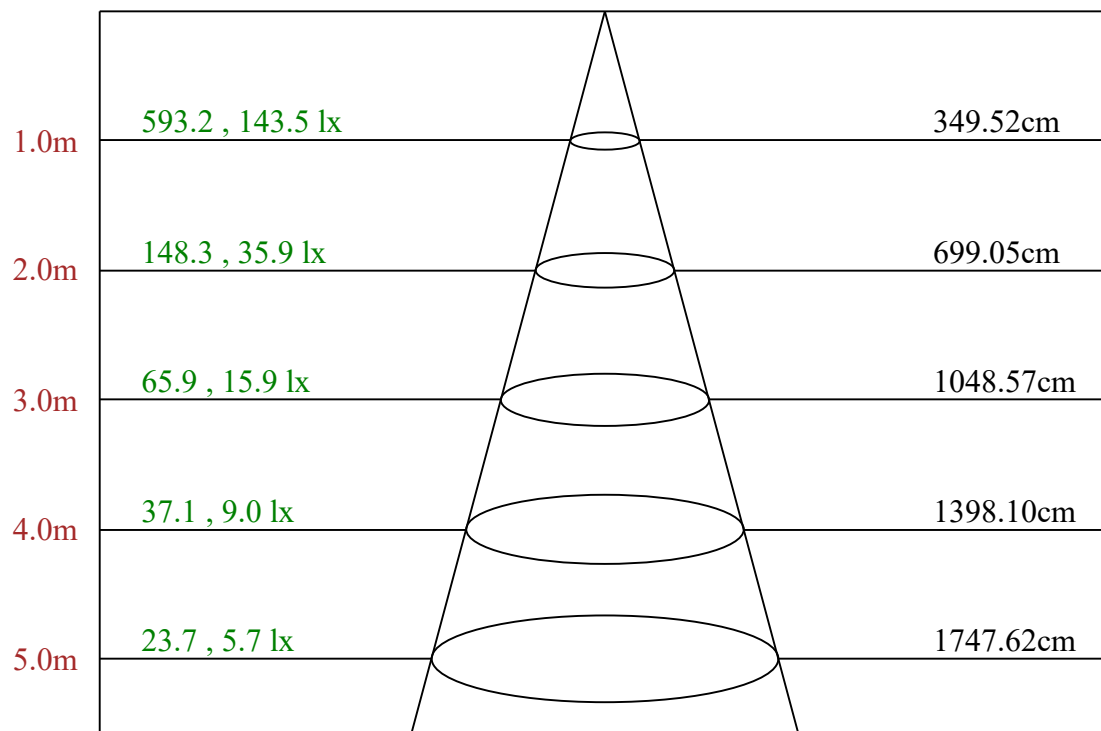
C90/C270:

Field angle(10%Imax):C0/180Left:102.4 Right:102.4

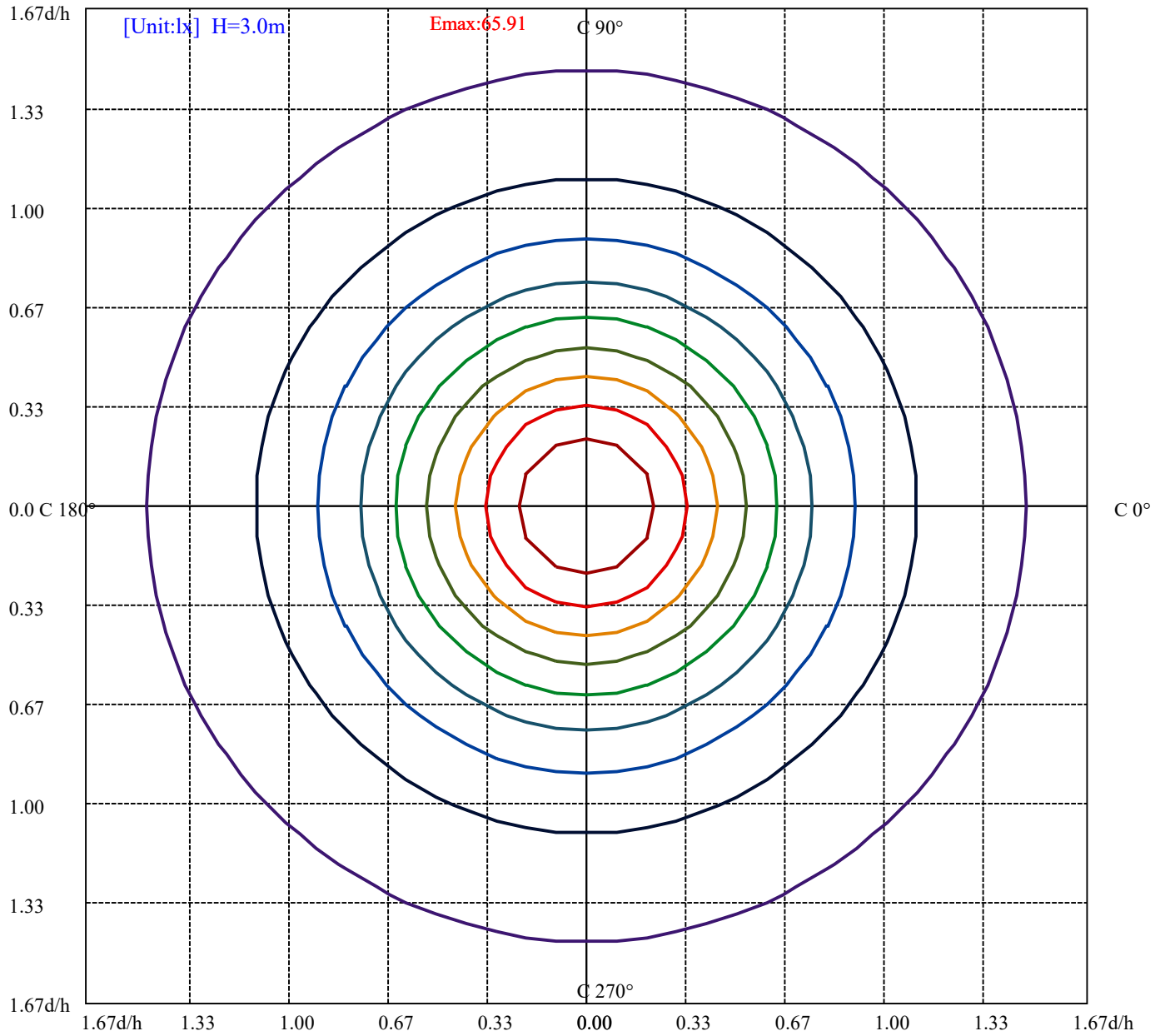
:C90/270Left:96.5 Right:96.5

Beam Angle(50%Imax):C0/180Left:60.0 Right:60.0

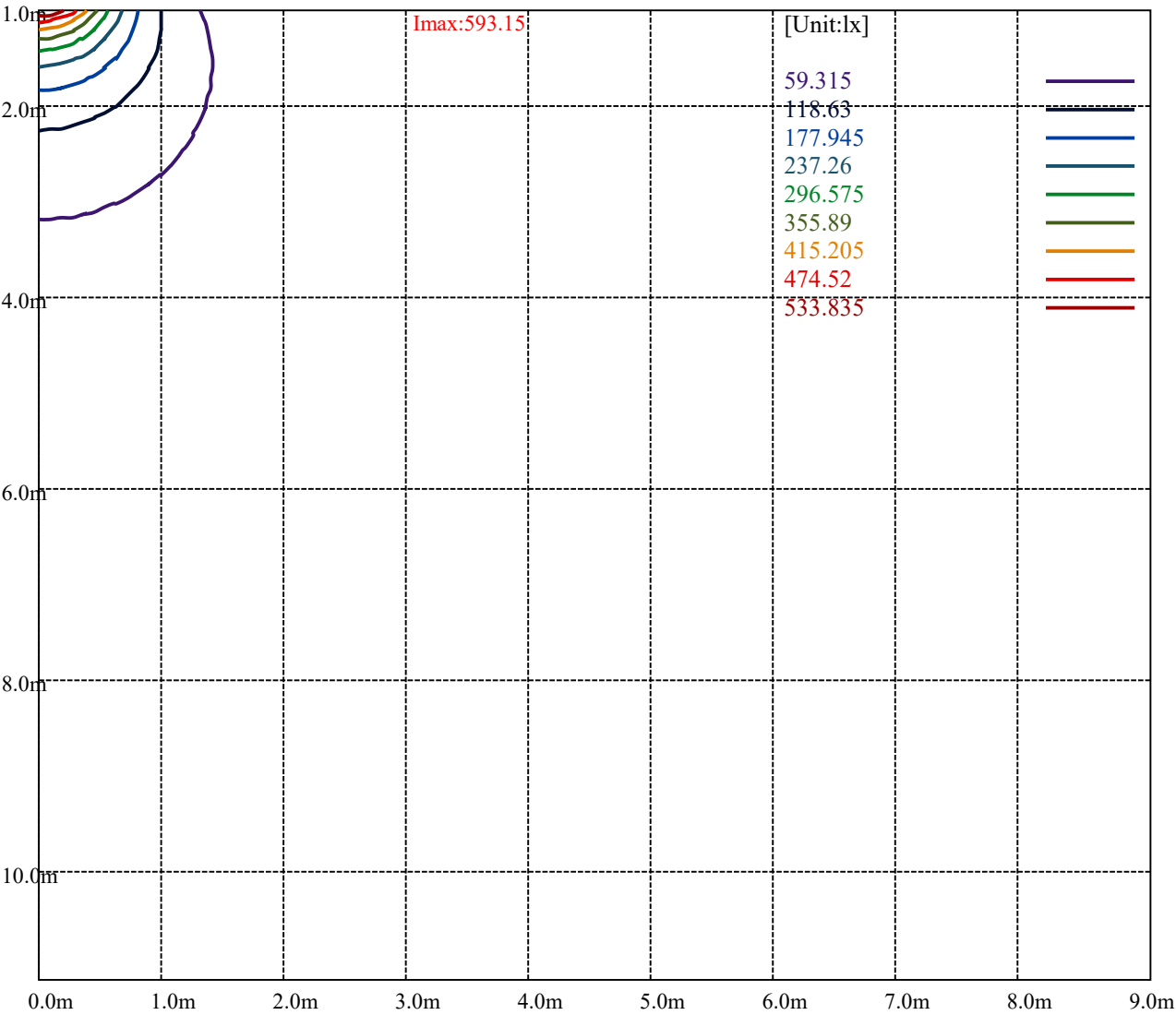
:C90/270Left:60.8 Right:60.8



Max , Ave Beam angle of C0 plane 120.44



(10%Emax) 6.590555	—
(20%Emax) 13.18111	—
(30%Emax) 19.77167	—
(40%Emax) 26.36222	—
(50%Emax) 32.95278	—
(60%Emax) 39.54333	—
(70%Emax) 46.13389	—
(80%Emax) 52.72444	—
(90%Emax) 59.315	—



Luminance Table

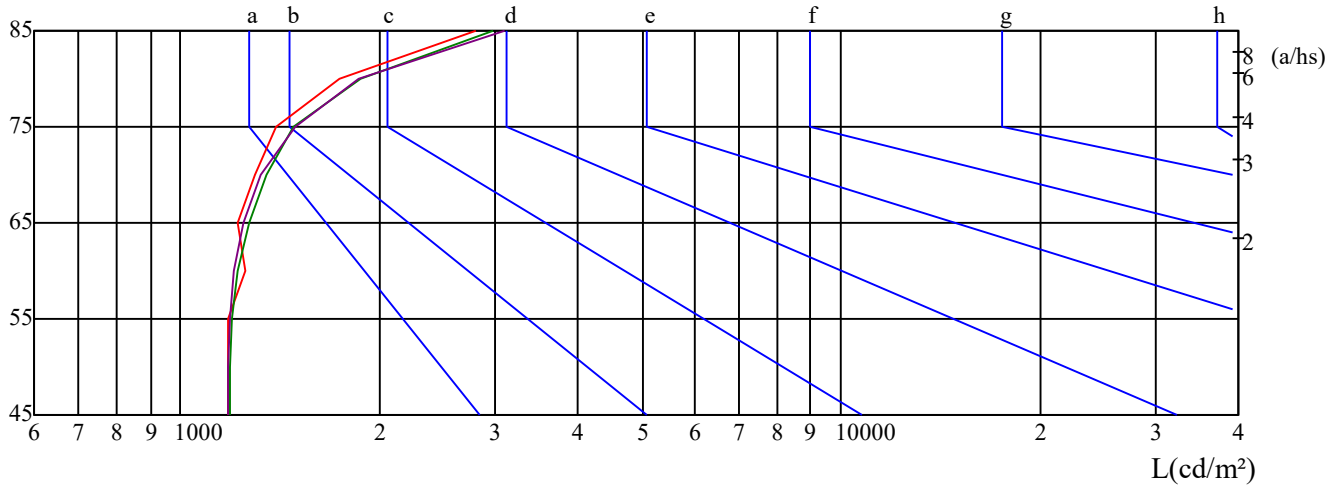
γ	45	50	55	60	65	70	75	80	85
C0	1190	1190	1198	1219	1268	1346	1486	1871	2968
C45	1180	1183	1188	1207	1245	1325	1490	1866	3088
C90	1177	1180	1182	1254	1221	1292	1400	1737	2807

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1268	1221	1245	1486	1400	1490	2968	2807	3088

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	1.17	1.17	1.17	1.13	1.13	1.13	1.07	1.07	1.07	1.00	1.00	1.00	0.95	0.95	0.95	0.92
1	0.99	0.94	0.89	0.96	0.91	0.87	0.90	0.86	0.82	0.85	0.81	0.79	0.80	0.77	0.75	0.72
2	0.85	0.77	0.71	0.82	0.75	0.69	0.77	0.71	0.66	0.73	0.68	0.64	0.69	0.65	0.61	0.58
3	0.74	0.65	0.58	0.72	0.64	0.57	0.68	0.61	0.55	0.64	0.58	0.53	0.60	0.55	0.51	0.48
4	0.65	0.56	0.49	0.63	0.55	0.48	0.60	0.52	0.46	0.56	0.50	0.45	0.53	0.48	0.43	0.41
5	0.58	0.49	0.42	0.56	0.48	0.41	0.53	0.46	0.40	0.50	0.44	0.39	0.48	0.42	0.37	0.35
6	0.52	0.43	0.36	0.51	0.42	0.36	0.48	0.40	0.35	0.46	0.39	0.34	0.43	0.37	0.33	0.30
7	0.47	0.38	0.32	0.46	0.37	0.31	0.44	0.36	0.30	0.41	0.35	0.30	0.39	0.33	0.29	0.27
8	0.43	0.34	0.28	0.42	0.34	0.28	0.40	0.32	0.27	0.38	0.31	0.26	0.36	0.30	0.26	0.24
9	0.39	0.31	0.25	0.38	0.30	0.25	0.37	0.29	0.24	0.35	0.28	0.24	0.33	0.28	0.23	0.21
10	0.36	0.28	0.23	0.35	0.28	0.23	0.34	0.27	0.22	0.32	0.26	0.22	0.31	0.25	0.21	0.19

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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	593.15	594.97	592.24	584.98	573.17	555.91	534.11	507.77	478.70		
15.0	593.15	596.81	595.89	589.49	580.36	562.99	542.88	518.21	488.96		
30.0	593.15	598.66	597.74	592.23	582.13	566.52	546.32	523.37	494.90		
45.0	593.15	597.74	597.74	593.15	582.13	567.44	547.24	523.37	494.90		
60.0	593.15	598.68	598.68	594.07	583.02	567.36	548.02	523.15	494.60		
75.0	593.15	598.68	597.76	592.23	581.18	565.52	545.26	520.39	490.91		
90.0	593.15	597.76	596.84	590.38	579.31	563.63	541.49	515.66	487.07		
105.0	593.15	596.84	594.07	586.69	574.70	558.10	535.96	509.21	477.84		
120.0	593.15	595.00	591.31	583.00	569.17	549.79	527.65	499.06	468.62		
135.0	593.15	593.15	587.62	577.47	562.71	541.49	517.51	489.83	457.55		
150.0	593.15	591.30	584.82	572.79	539.48	534.85	508.94	479.33	447.87		
165.0	593.15	588.53	581.14	565.43	548.80	525.70	497.99	467.50	431.47		
180.0	593.15	584.98	572.26	554.09	533.20	505.95	477.79	442.36	407.85		
195.0	593.15	584.01	571.22	551.11	529.17	501.76	469.77	435.04	398.48		
210.0	593.15	583.97	568.36	549.08	525.20	495.82	465.52	428.79	393.90		
225.0	593.15	582.13	566.52	547.24	522.45	493.99	461.85	426.04	388.39		
240.0	593.15	583.02	567.36	547.10	522.23	493.68	461.44	426.44	389.60		
255.0	593.15	583.02	567.36	548.94	524.07	493.68	463.28	429.21	391.44		
270.0	593.15	583.93	569.17	550.72	525.81	498.14	465.85	430.80	396.66		
285.0	593.15	583.93	571.01	552.56	529.50	502.75	472.31	438.17	429.87		
300.0	593.15	585.77	573.78	557.17	551.64	509.21	479.69	446.48	411.42		
315.0	593.15	586.69	577.47	561.79	541.49	516.59	489.83	457.55	425.26		
330.0	593.15	589.45	582.05	569.09	550.58	529.30	502.47	471.93	438.62		
345.0	593.15	591.30	583.91	572.82	557.12	536.79	511.85	483.20	451.79		
360.0	593.15	594.97	592.24	584.98	573.17	555.91	534.11	507.77	478.70		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	446.91	411.48	373.33	335.18	297.94	256.15	220.73	188.03	147.15		
15.0	456.06	420.41	382.94	347.30	308.00	265.96	231.23	197.41	168.17		
30.0	463.69	428.79	392.07	352.58	314.94	273.62	239.65	203.84	170.78		
45.0	461.85	429.71	390.23	353.50	314.94	276.37	240.57	204.76	171.70		
60.0	462.36	427.36	389.60	350.00	309.47	268.94	230.26	196.18	163.02		
75.0	457.76	423.68	387.76	348.15	308.55	265.26	229.34	192.50	158.42		
90.0	453.86	418.80	380.06	341.32	301.65	262.90	215.86	184.49	153.13		
105.0	445.55	409.58	371.76	333.94	294.27	255.53	217.70	177.11	136.53		
120.0	435.41	399.43	362.53	322.87	284.12	246.30	212.17	178.96	147.60		
135.0	423.42	386.52	350.54	310.87	274.90	238.92	202.94	172.50	143.91		
150.0	413.63	376.62	338.68	300.74	263.73	229.49	198.03	166.56	136.95		
165.0	398.21	361.25	326.14	289.18	253.15	219.89	186.63	156.14	126.58		
180.0	371.51	332.45	295.21	257.97	223.45	191.66	153.51	128.08	104.46		
195.0	361.01	322.62	286.98	248.59	215.69	183.70	151.71	123.38	97.79		
210.0	355.34	316.78	278.21	240.57	205.67	171.70	144.16	115.69	94.57		
225.0	349.83	310.35	271.78	235.06	196.49	163.44	134.06	112.02	90.90		
240.0	351.84	309.47	271.71	232.10	195.26	161.18	133.55	109.60	85.66		
255.0	352.76	313.15	275.39	233.02	196.18	161.18	131.71	126.18	84.74		
270.0	356.07	319.18	279.51	268.44	200.18	166.97	136.53	108.85	84.87		
285.0	367.14	327.48	288.73	249.99	212.17	178.04	145.75	117.15	89.48		
300.0	376.37	337.63	297.96	261.06	221.39	185.42	151.29	125.46	99.63		
315.0	388.36	352.38	313.64	274.90	237.08	202.94	172.50	141.14	117.15		
330.0	403.45	366.44	327.57	292.41	251.70	215.61	182.29	157.31	133.25		
345.0	417.61	379.73	342.77	303.97	265.16	228.21	192.17	165.38	141.36		
360.0	446.91	411.48	373.33	335.18	297.94	256.15	220.73	188.03	147.15		

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Intensity data(cd)										Appendix Page: 11 Total:12	
C/ $\gamma(^{\circ})$	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0		
0.0	133.53	116.27	96.28	75.39	60.86	42.69	28.16	19.08	13.63		
15.0	116.98	112.42	92.31	73.12	53.92	37.47	22.85	18.28	12.80		
30.0	137.73	101.92	78.05	62.44	45.91	29.38	19.28	16.53	11.02		
45.0	134.97	105.59	68.86	47.75	31.22	22.95	18.36	13.77	8.26		
60.0	130.79	99.47	60.79	41.45	29.47	22.10	16.58	11.05	8.29		
75.0	123.42	100.39	58.95	42.37	31.32	23.03	16.58	12.89	9.21		
90.0	122.69	96.86	52.58	45.20	35.98	23.98	19.37	14.76	11.07		
105.0	119.92	92.25	47.97	42.43	32.29	23.98	19.37	15.68	11.99		
120.0	94.09	81.18	47.05	35.05	22.14	18.45	14.76	11.99	10.15		
135.0	115.31	69.19	39.67	28.60	23.06	14.76	10.15	7.38	5.53		
150.0	107.34	67.55	39.79	24.06	18.51	12.95	8.33	6.48	3.70		
165.0	98.86	66.52	42.50	27.72	16.63	12.01	8.32	5.54	3.70		
180.0	79.93	55.41	39.06	24.53	18.17	12.72	9.08	6.36	4.54		
195.0	72.20	59.41	41.13	29.25	20.11	14.62	10.05	7.31	5.48		
210.0	76.21	59.68	44.99	33.97	23.87	14.69	11.02	8.26	6.43		
225.0	75.29	61.52	46.83	35.81	23.87	14.69	12.85	9.18	6.43		
240.0	70.92	56.18	52.50	29.47	20.26	12.89	7.37	6.45	5.53		
255.0	58.03	46.97	31.32	21.18	13.82	8.29	5.53	4.61	4.61		
270.0	60.88	40.59	20.29	14.76	10.15	7.38	5.53	5.53	4.61		
285.0	65.50	44.28	25.83	16.60	10.15	7.38	6.46	5.53	4.61		
300.0	72.88	59.04	43.36	29.52	16.60	11.99	10.15	8.30	7.38		
315.0	96.86	80.26	60.88	42.43	30.44	18.45	11.99	11.07	9.22		
330.0	111.04	95.31	76.80	59.22	42.57	26.84	17.58	12.03	10.18		
345.0	121.96	102.55	85.92	66.52	49.89	36.96	22.17	15.71	12.01		
360.0	133.53	116.27	96.28	75.39	60.86	42.69	28.16	19.08	13.63		
C/ $\gamma(^{\circ})$	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0		
0.0	9.08	6.36	5.45	4.54	4.54	4.54	5.45	5.45	6.36		
15.0	8.23	5.48	4.57	4.57	4.57	4.57	5.48	5.48	6.40		
30.0	6.43	4.59	4.59	4.59	4.59	4.59	5.51	5.51	6.43		
45.0	5.51	4.59	4.59	4.59	4.59	5.51	5.51	6.43	6.43		
60.0	6.45	4.61	4.61	4.61	4.61	5.53	5.53	6.45	7.37		
75.0	7.37	5.53	5.53	5.53	5.53	6.45	6.45	7.37	7.37		
90.0	9.22	7.38	6.46	6.46	6.46	6.46	7.38	7.38	7.38		
105.0	9.22	7.38	6.46	6.46	6.46	7.38	7.38	8.30	8.30		
120.0	8.30	7.38	6.46	5.53	6.46	7.38	7.38	8.30	7.38		
135.0	4.61	4.61	4.61	4.61	5.53	6.46	7.38	7.38	7.38		
150.0	3.70	3.70	3.70	4.63	5.55	5.55	6.48	6.48	7.40		
165.0	2.77	3.70	3.70	4.62	5.54	5.54	6.47	6.47	7.39		
180.0	3.63	2.73	2.73	3.63	3.63	4.54	6.36	6.36	7.27		
195.0	4.57	3.66	3.66	3.66	3.66	4.57	6.40	6.40	7.31		
210.0	4.59	4.59	4.59	4.59	5.51	5.51	5.51	5.51	6.43		
225.0	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.51	6.43		
240.0	4.61	4.61	4.61	5.53	5.53	5.53	4.61	5.53	7.37		
255.0	4.61	4.61	4.61	4.61	5.53	6.45	4.61	5.53	7.37		
270.0	4.61	4.61	4.61	5.53	5.53	5.53	4.61	5.53	7.38		
285.0	3.69	2.77	3.69	3.69	4.61	5.53	4.61	5.53	6.46		
300.0	6.46	5.53	4.61	3.69	3.69	3.69	4.61	6.46	6.46		
315.0	8.30	6.46	6.46	5.53	4.61	3.69	5.53	6.46	5.53		
330.0	8.33	7.40	5.55	5.55	4.63	4.63	4.63	6.48	6.48		
345.0	9.24	6.47	5.54	4.62	3.70	3.70	4.62	5.54	6.47		
360.0	9.08	6.36	5.45	4.54	4.54	4.54	5.45	5.45	6.36		

Intensity data(cd)

C/ $\gamma(^{\circ})$	180.0
0.0	7.27
15.0	7.31
30.0	7.35
45.0	7.35
60.0	7.37
75.0	6.45
90.0	6.46
105.0	6.46
120.0	6.46
135.0	7.38
150.0	7.40
165.0	7.39
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	7.27