
弗格斯莱

Client:

LumCAT: CLSP32LAJUDLB

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.280

Lamp flux(lm): 2035.9

Power (W): 33.470

Number of Lamps: 1

PF: 0.998

Length(mm): 760

Width(mm): 640

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2035.85, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 60.83

Central intensity(cd): 566.395, Maximum intensity(cd): 566.395

Angle of maximum intensity: C=0.0 γ =0.0

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

[C90/270]Total=121.4

Field angle(10%Imax): [C0/180]Total=205.0

[C90/270]Total=192.8

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(%): 7.95%

Down flux rate of lamp(%): 92.05%

Up flux rate of LUM(%): 7.95%

Down flux rate of LUM(%): 92.05%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 64.329%

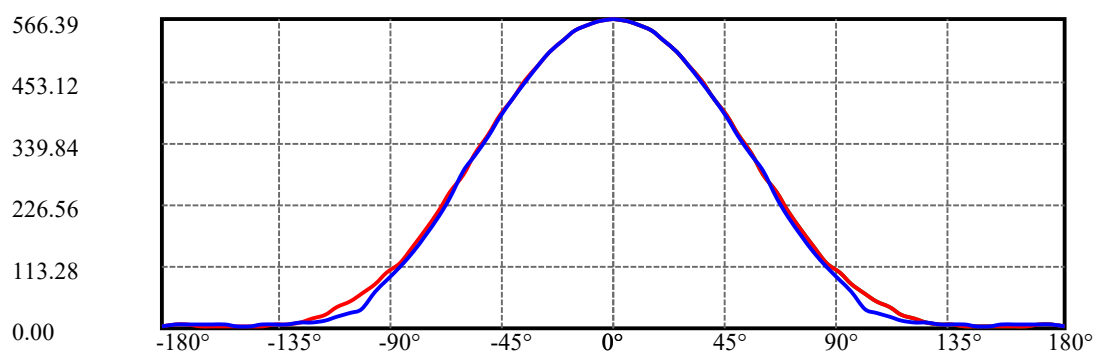
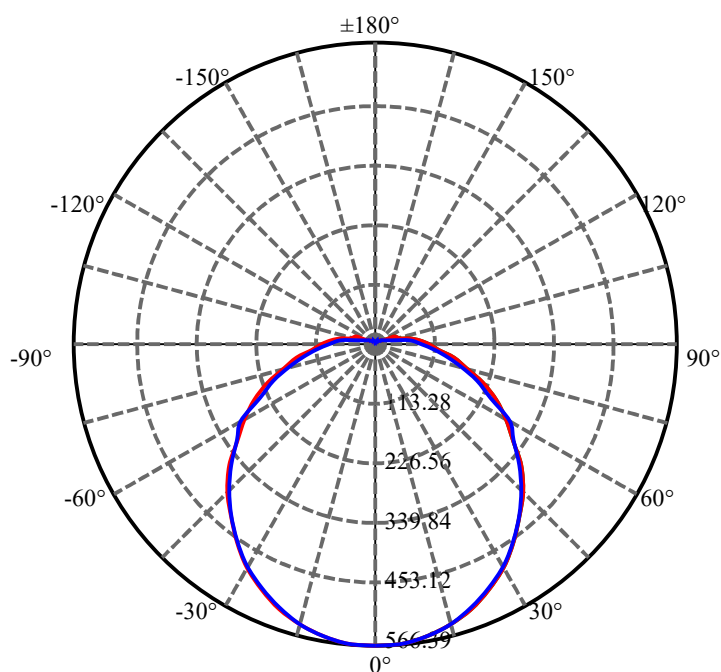
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	566.395	0.000	0	0.00%	0.00%
5.0	563.941	13.513	13.513	0.66%	0.66%
10.0	556.505	40.082	53.595	1.97%	2.63%
15.0	544.545	65.314	118.908	3.21%	5.84%
20.0	528.135	88.404	207.312	4.34%	10.18%
25.0	506.901	108.556	315.868	5.33%	15.52%
30.0	482.023	125.149	441.017	6.15%	21.66%
35.0	453.428	137.752	578.769	6.77%	28.43%
40.0	423.263	146.269	725.038	7.18%	35.61%
45.0	388.761	150.353	875.391	7.39%	43.00%
50.0	353.417	149.968	1025.359	7.37%	50.37%
55.0	317.233	145.822	1171.181	7.16%	57.53%
60.0	281.775	138.459	1309.64	6.80%	64.33%
65.0	244.550	127.951	1437.591	6.28%	70.61%
70.0	209.593	114.992	1552.582	5.65%	76.26%
75.0	177.357	101.143	1653.725	4.97%	81.23%
80.0	149.109	87.353	1741.078	4.29%	85.52%
85.0	121.358	73.492	1814.57	3.61%	89.13%
90.0	95.520	59.383	1873.953	2.92%	92.05%
95.0	74.273	46.491	1920.444	2.28%	94.33%
100.0	51.418	34.153	1954.597	1.68%	96.01%
105.0	37.775	23.866	1978.463	1.17%	97.18%
110.0	27.006	16.933	1995.396	0.83%	98.01%
115.0	18.579	11.542	2006.938	0.57%	98.58%
120.0	13.179	7.720	2014.659	0.38%	98.96%
125.0	10.077	5.376	2020.034	0.26%	99.22%
130.0	7.664	3.858	2023.892	0.19%	99.41%
135.0	5.789	2.718	2026.61	0.13%	99.55%
140.0	4.984	1.995	2028.605	0.10%	99.64%
145.0	4.486	1.580	2030.185	0.08%	99.72%
150.0	4.447	1.315	2031.5	0.06%	99.79%
155.0	4.869	1.179	2032.679	0.06%	99.84%
160.0	5.138	1.050	2033.729	0.05%	99.90%
165.0	5.406	0.869	2034.598	0.04%	99.94%
170.0	6.096	0.682	2035.28	0.03%	99.97%
175.0	6.517	0.451	2035.731	0.02%	99.99%
180.0	3.450	0.119	2035.85	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	441.02	21.66%	21.66%
0-40	725.04	35.61%	35.61%
0-60	1309.64	64.33%	64.33%
0-90	1873.95	92.05%	92.05%
0-120	2014.66	98.96%	98.96%
0-180	2035.85	100.00%	100.00%
60-90	564.31	27.72%	27.72%
90-120	140.71	6.91%	6.91%
90-130	149.94	7.36%	7.36%
90-150	157.55	7.74%	7.74%
90-180	161.78	7.95%	7.95%
0-73.76	1628.68	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	53.59
10-20	153.72
20-30	233.71
30-40	284.02
40-50	300.32
50-60	284.28
60-70	242.94
70-80	188.50
80-90	132.88
90-100	80.64
100-110	40.80
110-120	19.26
120-130	9.23
130-140	4.71
140-150	2.90
150-160	2.23
160-170	1.55
170-180	0.45



C0(Max):

C0/C180:

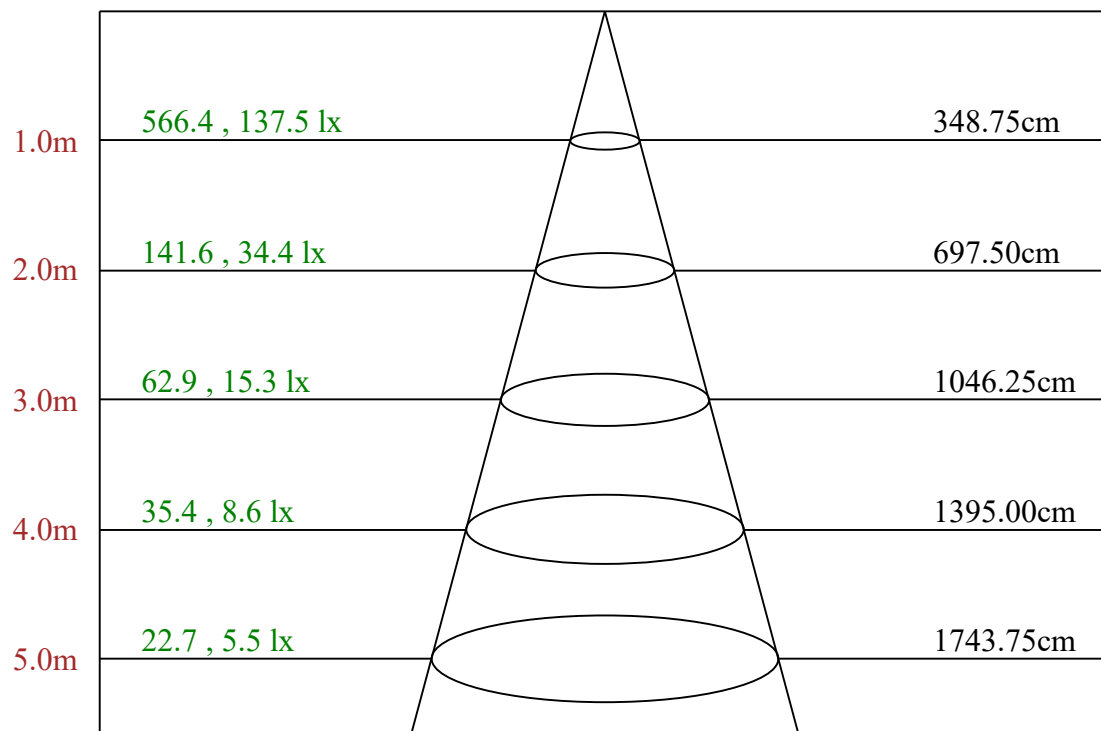
C90/C270:

Field angle(10%Imax):C0/180Left:102.5 Right:102.5

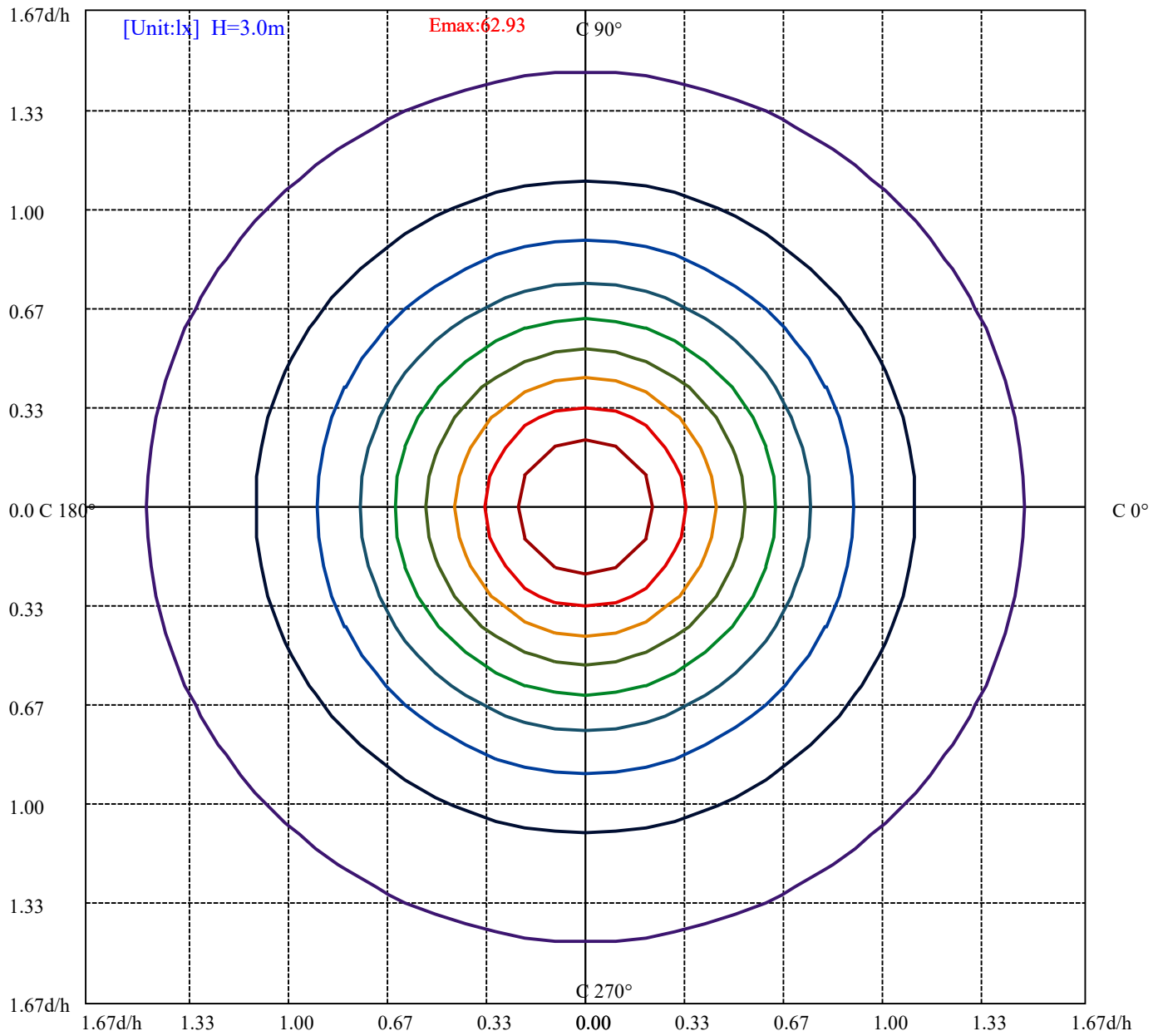
:C90/270Left:96.4 Right:96.4

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

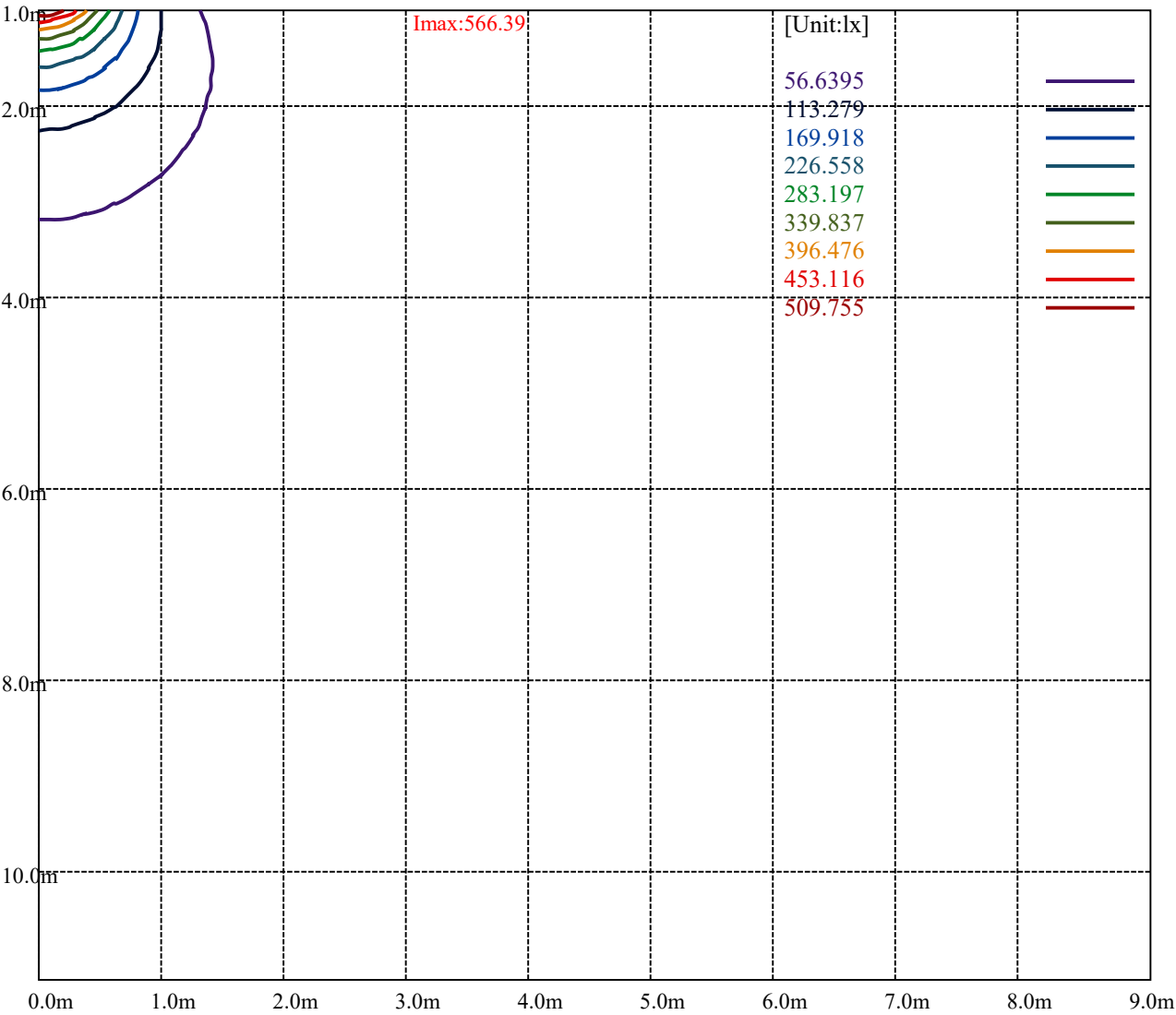
:C90/270Left:60.7 Right:60.7



Max , Ave Beam angle of C0 plane 120.33



(10%Emax) 6.293278	—
(20%Emax) 12.58656	—
(30%Emax) 18.87978	—
(40%Emax) 25.17311	—
(50%Emax) 31.46633	—
(60%Emax) 37.75967	—
(70%Emax) 44.05289	—
(80%Emax) 50.34622	—
(90%Emax) 56.63945	—



Luminance Table

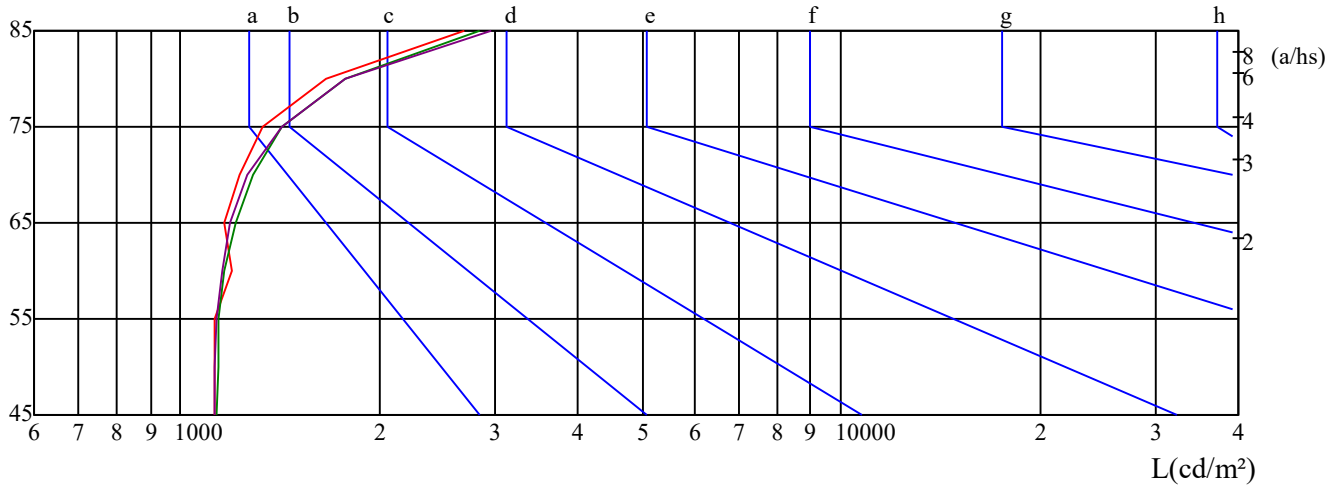
γ	45	50	55	60	65	70	75	80	85
C0	1135	1138	1144	1164	1212	1287	1423	1781	2842
C45	1128	1129	1135	1154	1189	1264	1422	1779	2952
C90	1123	1125	1129	1193	1163	1232	1331	1657	2683

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1212	1163	1189	1423	1331	1422	2842	2683	2952

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	1.14	1.14	1.14	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	0.27	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	566.39	569.12	566.39	559.12	548.21	531.85	510.94	485.48	457.30		
15.0	566.39	570.05	569.14	563.65	554.50	538.03	518.81	495.02	467.57		
30.0	566.39	571.90	570.98	565.48	555.38	540.69	521.41	500.30	472.76		
45.0	566.39	570.98	570.98	566.39	556.30	542.53	523.25	500.30	471.84		
60.0	566.39	571.92	571.92	567.32	557.18	542.45	523.11	499.16	472.46		
75.0	566.39	571.92	571.00	565.47	555.34	540.61	520.35	496.40	468.77		
90.0	566.39	570.08	569.16	562.71	552.58	536.92	516.66	490.88	464.17		
105.0	566.39	570.08	567.32	560.86	548.87	533.19	511.97	486.14	456.62		
120.0	566.39	568.24	564.55	557.17	543.33	525.81	503.67	476.92	447.40		
135.0	566.39	566.39	561.78	551.64	537.80	517.50	494.44	467.69	437.25		
150.0	566.39	564.54	558.07	546.96	515.49	510.87	485.88	458.11	427.57		
165.0	566.39	562.70	554.38	540.52	523.89	501.72	475.85	446.28	412.09		
180.0	566.39	559.12	546.39	530.03	510.03	483.66	456.39	422.75	389.11		
195.0	566.39	558.16	545.35	527.05	506.00	479.47	449.27	416.33	381.56		
210.0	566.39	557.21	542.53	524.17	501.22	473.68	444.30	409.42	375.45		
225.0	566.39	556.30	541.61	522.33	498.46	471.84	440.63	406.67	370.86		
240.0	566.39	556.26	541.53	522.19	499.16	471.53	441.14	407.99	372.07		
255.0	566.39	557.18	541.53	524.03	501.01	471.53	442.06	409.83	373.91		
270.0	566.39	557.18	543.37	524.95	501.93	475.22	443.91	410.75	378.52		
285.0	566.39	558.09	545.18	527.65	505.51	479.68	450.16	418.80	410.50		
300.0	566.39	559.01	547.95	532.26	527.65	486.14	458.47	427.10	392.97		
315.0	566.39	559.94	550.71	536.88	517.50	493.52	467.69	437.25	406.81		
330.0	566.39	563.62	556.21	543.26	525.67	505.31	479.40	450.71	419.24		
345.0	566.39	564.55	558.08	546.99	532.21	511.88	488.78	461.99	431.49		
360.0	566.39	569.12	566.39	559.12	548.21	531.85	510.94	485.48	457.30		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	426.39	393.66	356.38	320.02	284.56	245.47	210.92	179.10	140.92		
15.0	435.55	402.61	366.01	332.15	294.63	254.37	220.52	188.49	161.04		
30.0	442.47	409.42	373.62	336.90	301.10	261.62	229.50	194.61	162.48		
45.0	441.55	410.34	372.70	337.82	300.18	263.46	229.50	195.53	164.32		
60.0	441.14	407.99	372.07	334.31	295.63	256.95	220.11	187.88	155.64		
75.0	437.46	404.30	370.23	332.47	294.71	253.27	219.19	184.19	151.96		
90.0	432.85	398.78	362.86	325.10	287.34	250.50	205.38	175.90	146.43		
105.0	425.26	391.13	355.15	319.17	280.43	243.53	207.56	169.73	130.99		
120.0	416.03	381.90	345.93	308.10	271.21	235.23	202.94	170.66	141.14		
135.0	404.96	368.99	334.86	297.03	262.90	227.85	193.72	164.20	137.45		
150.0	395.18	360.01	322.99	286.90	251.73	219.34	188.80	159.18	130.49		
165.0	379.75	344.64	311.38	276.27	242.08	209.74	178.33	148.76	121.04		
180.0	354.56	318.20	281.83	246.38	213.65	182.74	147.28	121.82	100.01		
195.0	344.96	308.36	274.50	236.99	205.88	175.68	145.49	118.04	93.33		
210.0	338.74	302.02	265.30	229.50	196.45	163.40	137.70	110.16	89.96		
225.0	334.15	296.51	258.87	224.91	187.27	156.06	128.52	106.49	87.21		
240.0	336.15	295.63	258.79	221.95	186.96	153.80	128.01	104.07	81.97		
255.0	337.07	299.31	262.48	221.95	187.88	153.80	126.17	120.65	81.05		
270.0	339.84	304.84	267.08	255.11	190.64	159.33	129.86	104.07	81.05		
285.0	350.54	312.72	275.82	238.92	202.94	169.73	139.29	111.62	84.87		
300.0	359.76	321.94	285.04	249.07	211.24	177.11	144.83	119.92	95.01		
315.0	370.83	336.70	299.80	262.90	226.93	193.72	164.20	134.68	111.62		
330.0	385.93	349.83	312.81	278.57	239.70	206.38	174.92	150.85	127.72		
345.0	399.16	362.20	327.09	290.13	253.17	217.13	183.87	158.00	134.90		
360.0	426.39	393.66	356.38	320.02	284.56	245.47	210.92	179.10	140.92		

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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	127.28	110.92	92.73	72.73	58.18	40.91	26.37	18.18	12.73
15.0	111.63	107.06	87.84	69.54	52.16	35.69	21.96	17.39	12.81
30.0	132.19	97.31	74.36	59.67	43.15	27.54	18.36	15.61	10.10
45.0	129.44	100.98	66.09	45.90	29.38	22.03	17.44	12.85	7.34
60.0	124.33	94.86	58.02	39.60	27.63	21.18	15.66	10.13	7.37
75.0	117.88	95.78	56.18	40.52	29.47	22.10	15.66	11.97	9.21
90.0	116.96	92.10	49.73	43.29	34.08	23.02	18.42	13.81	11.05
105.0	115.31	87.63	45.20	40.59	31.36	23.06	18.45	14.76	11.07
120.0	90.40	77.49	45.20	33.21	21.22	17.53	14.76	11.99	10.15
135.0	109.77	65.50	37.82	26.75	22.14	13.84	10.15	7.38	5.53
150.0	102.73	63.86	37.94	23.14	17.58	12.96	8.33	5.55	3.70
165.0	95.17	62.83	39.73	26.80	15.71	11.09	8.32	5.54	3.70
180.0	76.37	52.73	37.27	23.64	17.27	11.82	8.18	5.45	4.55
195.0	69.54	56.73	39.35	28.37	19.22	13.73	10.07	7.32	5.49
210.0	73.44	56.91	43.15	32.13	22.03	13.77	11.02	8.26	6.43
225.0	71.60	58.75	44.98	33.97	22.95	13.77	11.93	9.18	6.43
240.0	68.15	53.42	49.73	27.63	19.34	11.97	6.45	6.45	5.53
255.0	55.26	44.21	30.39	20.26	12.89	8.29	5.53	4.60	4.60
270.0	58.02	38.68	19.34	14.74	9.21	6.45	4.60	4.60	4.60
285.0	62.73	42.43	23.98	15.68	10.15	6.46	6.46	5.53	3.69
300.0	69.19	56.27	41.51	27.67	15.68	11.07	9.22	8.30	7.38
315.0	92.25	76.56	58.12	40.59	28.60	17.53	11.07	10.15	9.22
330.0	106.43	91.62	73.11	56.45	40.72	24.99	16.66	12.03	10.18
345.0	116.42	97.94	82.23	63.75	48.05	35.11	21.25	14.78	11.09
360.0	127.28	110.92	92.73	72.73	58.18	40.91	26.37	18.18	12.73
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	8.18	6.36	4.55	4.55	4.55	4.55	4.55	5.45	6.36
15.0	7.32	5.49	4.58	4.58	4.58	4.58	4.58	5.49	6.41
30.0	6.43	4.59	3.67	3.67	4.59	4.59	4.59	5.51	6.43
45.0	5.51	4.59	3.67	3.67	4.59	4.59	5.51	5.51	6.43
60.0	5.53	4.60	4.60	4.60	4.60	5.53	5.53	6.45	6.45
75.0	7.37	5.53	4.60	4.60	5.53	5.53	6.45	7.37	6.45
90.0	8.29	6.45	5.53	5.53	5.53	6.45	6.45	7.37	7.37
105.0	9.22	7.38	6.46	5.53	6.46	7.38	7.38	8.30	7.38
120.0	7.38	6.46	5.53	5.53	6.46	7.38	7.38	7.38	7.38
135.0	4.61	3.69	4.61	4.61	5.53	6.46	7.38	7.38	7.38
150.0	3.70	3.70	3.70	3.70	4.63	5.55	5.55	6.48	7.40
165.0	2.77	2.77	3.70	3.70	4.62	5.54	6.47	6.47	7.39
180.0	3.64	2.73	2.73	3.64	3.64	4.55	5.45	6.36	6.36
195.0	3.66	3.66	3.66	3.66	3.66	3.66	5.49	5.49	6.41
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	4.59	4.59	6.43
240.0	4.60	4.60	4.60	4.60	5.53	5.53	4.60	4.60	6.45
255.0	3.68	4.60	4.60	4.60	5.53	5.53	4.60	5.53	6.45
270.0	3.68	4.60	4.60	4.60	5.53	5.53	4.60	5.53	6.45
285.0	2.77	2.77	2.77	3.69	4.61	4.61	4.61	5.53	6.46
300.0	6.46	5.53	3.69	3.69	2.77	3.69	4.61	5.53	5.53
315.0	7.38	6.46	5.53	5.53	4.61	3.69	4.61	6.46	5.53
330.0	8.33	6.48	5.55	4.63	4.63	3.70	4.63	6.48	5.55
345.0	8.32	6.47	4.62	3.70	3.70	3.70	4.62	5.54	5.54
360.0	8.18	6.36	4.55	4.55	4.55	4.55	4.55	5.45	6.36

Intensity data(cd)

C/ $\gamma(^{\circ})$	180.0
0.0	6.36
15.0	7.32
30.0	7.34
45.0	7.34
60.0	7.37
75.0	6.45
90.0	6.45
105.0	6.46
120.0	6.46
135.0	6.46
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	6.36