
弗格斯莱

Client:

LumCAT: CLSP32LAJUDLB

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.287

Lamp flux(lm): 2219.0

Power (W): 34.330

Number of Lamps: 1

PF: 0.998

Length(mm): 760

Width(mm): 640

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2219.00, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 64.64

Central intensity(cd): 617.300, Maximum intensity(cd): 617.300

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(%): 7.97%

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%

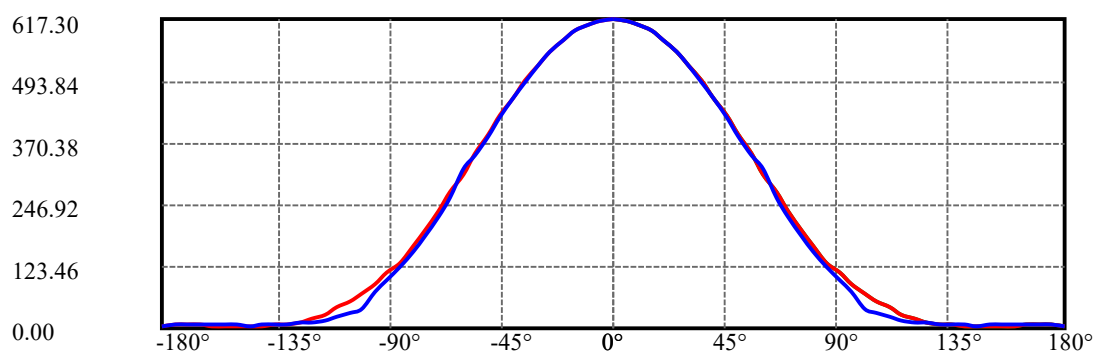
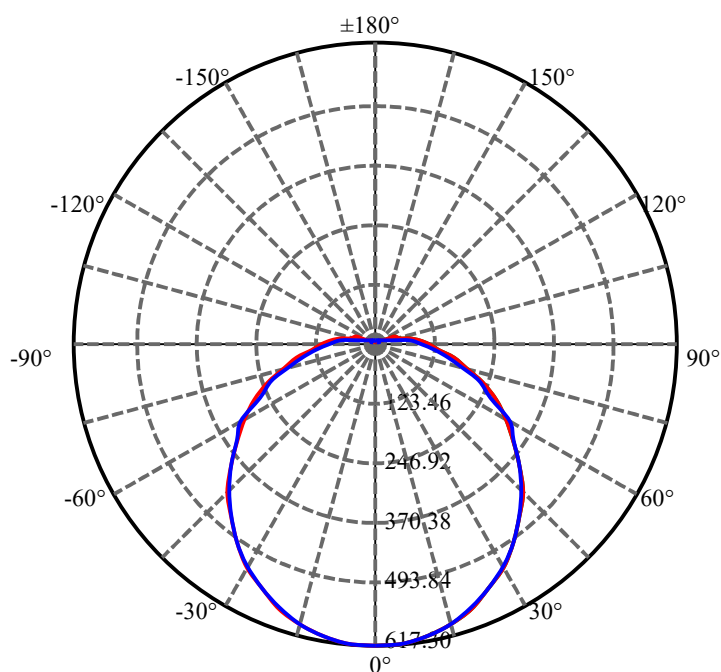
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	617.300	0.000	0	0.00%	0.00%
5.0	614.501	14.726	14.726	0.66%	0.66%
10.0	606.567	43.681	58.407	1.97%	2.63%
15.0	593.343	71.178	129.585	3.21%	5.84%
20.0	575.437	96.324	225.909	4.34%	10.18%
25.0	552.326	118.281	344.19	5.33%	15.51%
30.0	525.338	136.379	480.57	6.15%	21.66%
35.0	494.136	150.125	630.694	6.77%	28.42%
40.0	461.289	159.405	790.1	7.18%	35.61%
45.0	423.720	163.866	953.966	7.38%	42.99%
50.0	385.041	163.422	1117.388	7.36%	50.36%
55.0	345.866	158.924	1276.312	7.16%	57.52%
60.0	307.074	150.925	1427.237	6.80%	64.32%
65.0	266.551	139.449	1566.687	6.28%	70.60%
70.0	228.489	125.347	1692.034	5.65%	76.25%
75.0	193.187	110.219	1802.254	4.97%	81.22%
80.0	162.485	95.168	1897.421	4.29%	85.51%
85.0	132.127	80.053	1977.475	3.61%	89.12%
90.0	104.105	64.682	2042.157	2.91%	92.03%
95.0	81.132	50.719	2092.876	2.29%	94.32%
100.0	56.128	37.297	2130.173	1.68%	96.00%
105.0	41.259	26.058	2156.231	1.17%	97.17%
110.0	29.457	18.484	2174.715	0.83%	98.00%
115.0	20.302	12.599	2187.314	0.57%	98.57%
120.0	14.404	8.437	2195.751	0.38%	98.95%
125.0	10.920	5.854	2201.605	0.26%	99.22%
130.0	8.354	4.191	2205.796	0.19%	99.41%
135.0	6.364	2.974	2208.77	0.13%	99.54%
140.0	5.406	2.179	2210.949	0.10%	99.64%
145.0	4.984	1.734	2212.682	0.08%	99.72%
150.0	5.062	1.479	2214.162	0.07%	99.78%
155.0	5.292	1.310	2215.472	0.06%	99.84%
160.0	5.828	1.166	2216.638	0.05%	99.89%
165.0	5.942	0.970	2217.608	0.04%	99.94%
170.0	6.786	0.755	2218.363	0.03%	99.97%
175.0	7.284	0.503	2218.867	0.02%	99.99%
180.0	3.756	0.132	2218.999	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	480.57	21.66%	21.66%
0-40	790.10	35.61%	35.61%
0-60	1427.24	64.32%	64.32%
0-90	2042.16	92.03%	92.03%
0-120	2195.75	98.95%	98.95%
0-180	2219.00	100.00%	100.00%
60-90	614.92	27.71%	27.71%
90-120	153.59	6.92%	6.92%
90-130	163.64	7.37%	7.37%
90-150	172.00	7.75%	7.75%
90-180	176.71	7.96%	7.96%
0-73.77	1775.20	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	58.41
10-20	167.50
20-30	254.66
30-40	309.53
40-50	327.29
50-60	309.85
60-70	264.80
70-80	205.39
80-90	144.74
90-100	88.02
100-110	44.54
110-120	21.04
120-130	10.04
130-140	5.15
140-150	3.21
150-160	2.48
160-170	1.73
170-180	0.50



C0(Max):

C0/C180:

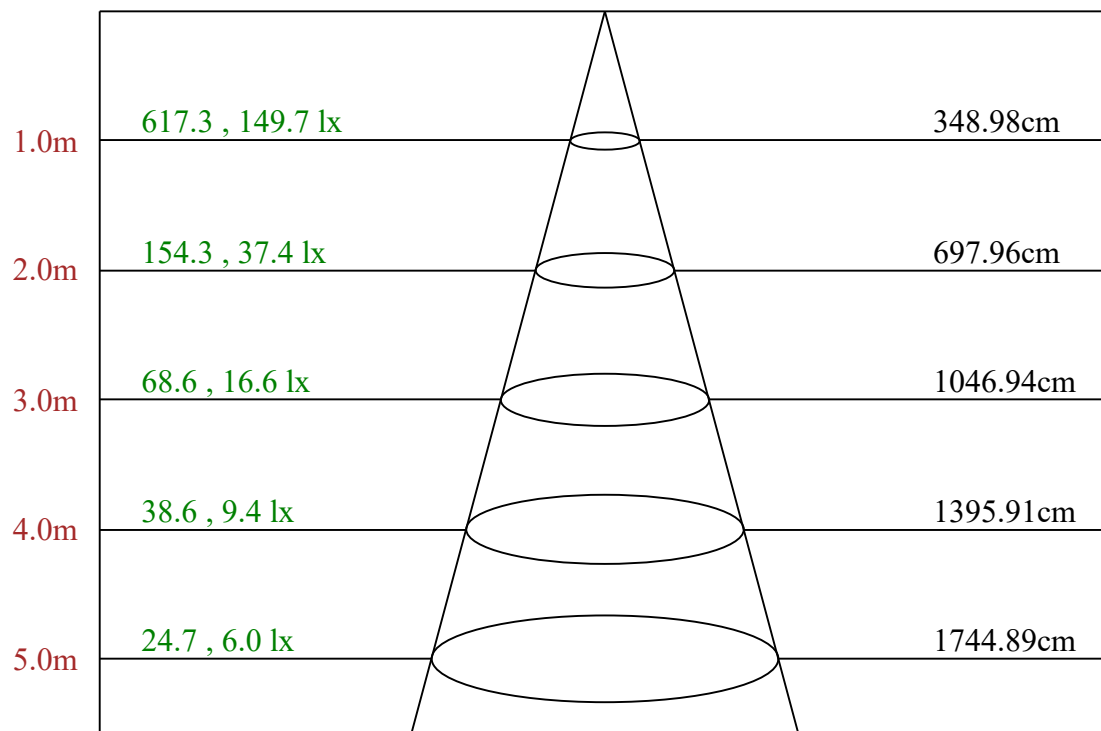
C90/C270:

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

:C90/270Left:96.4 Right:96.4

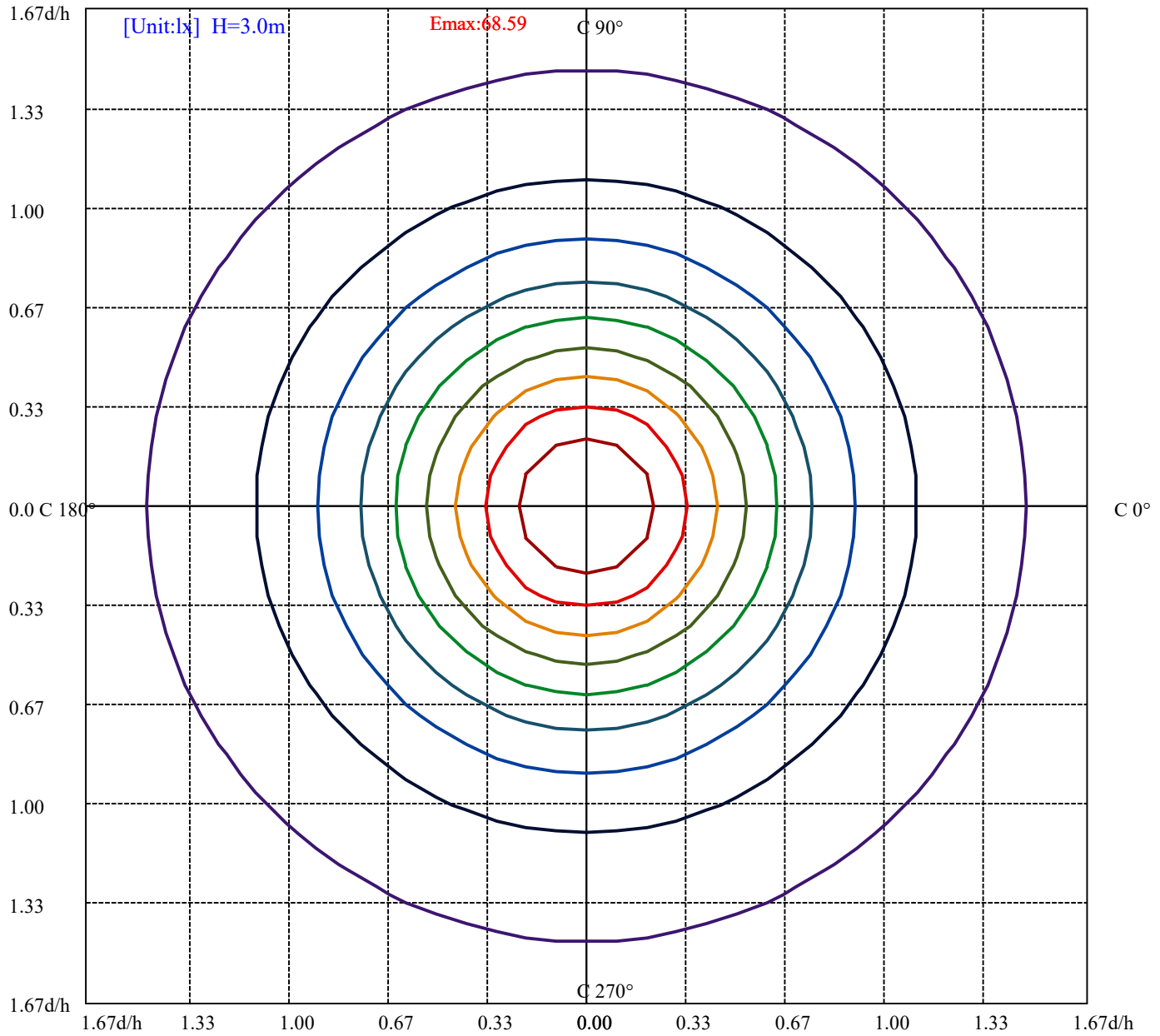
Beam Angle(50%Imax):C0/180Left:60.0 Right:60.0

:C90/270Left:60.7 Right:60.7

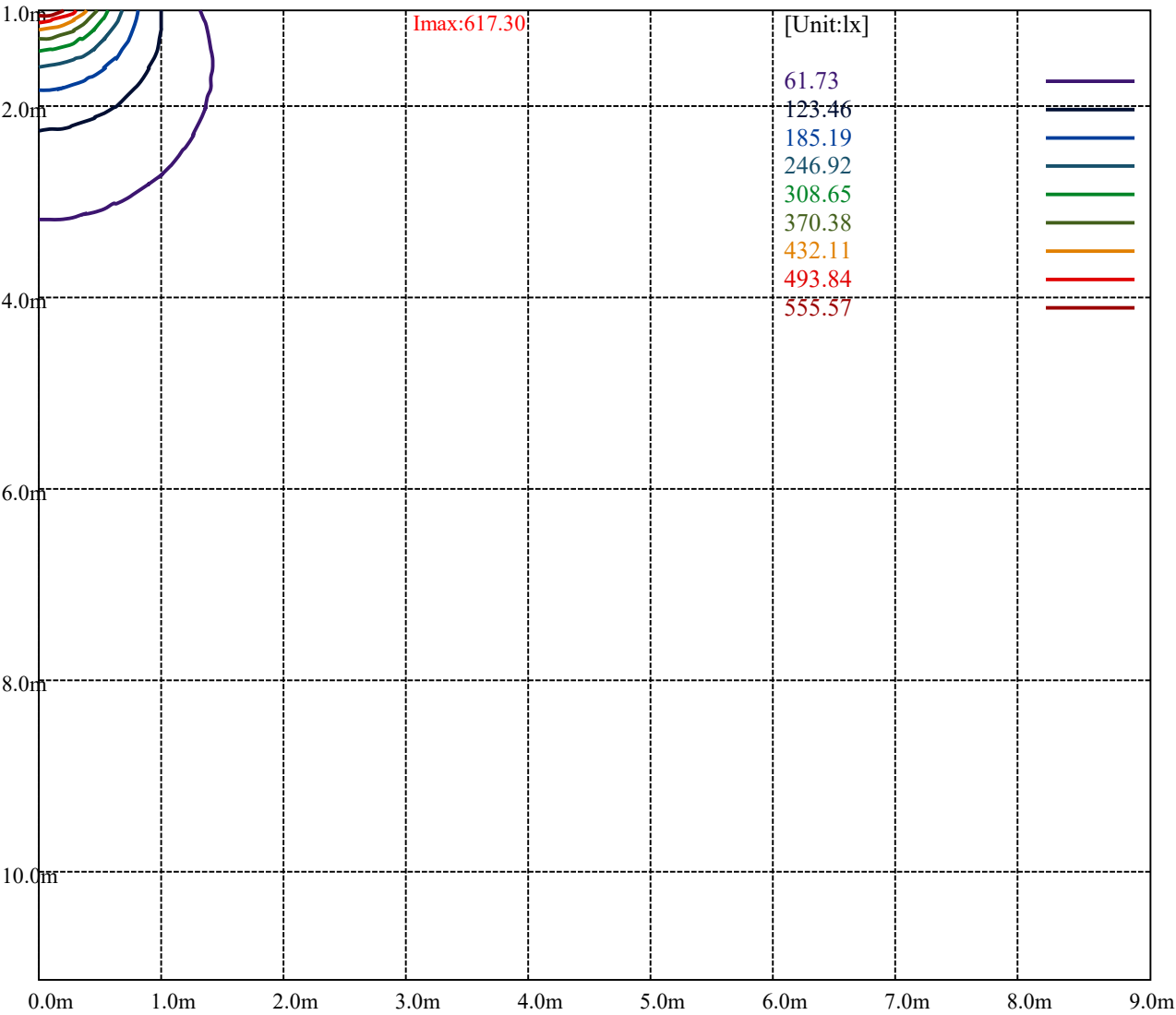


Max , Ave

Beam angle of C0 plane 120.37



(10%Emax) 6.858878	—
(20%Emax) 13.71778	—
(30%Emax) 20.57667	—
(40%Emax) 27.43555	—
(50%Emax) 34.29445	—
(60%Emax) 41.15334	—
(70%Emax) 48.01222	—
(80%Emax) 54.87111	—
(90%Emax) 61.73	—



Luminance Table

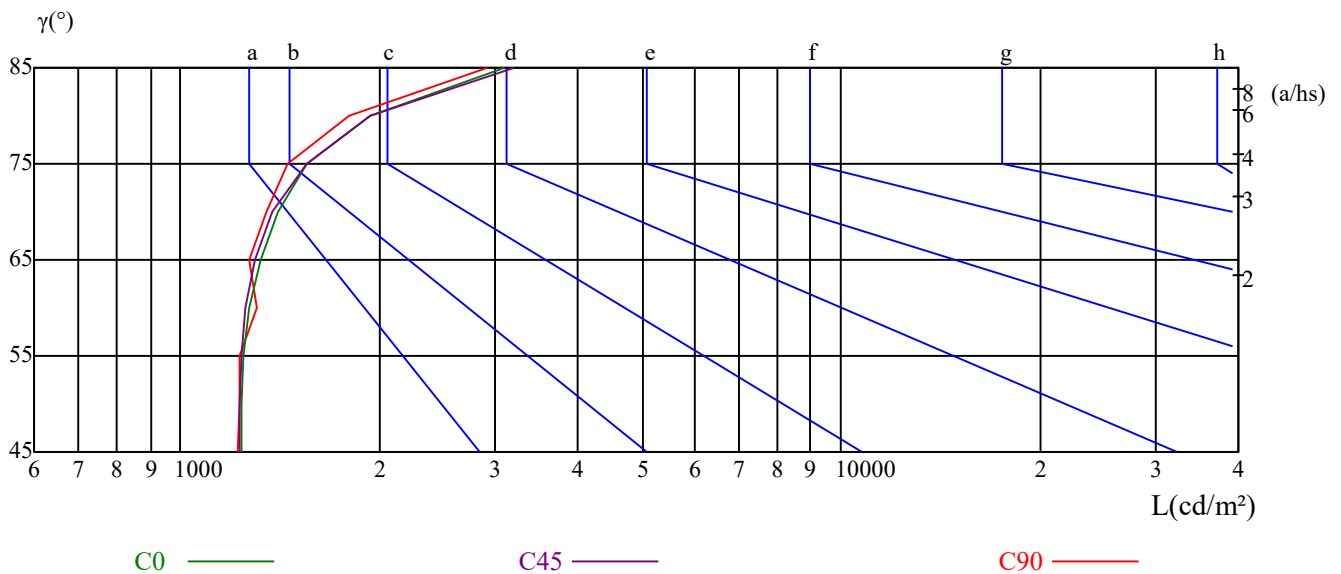
γ	45	50	55	60	65	70	75	80	85
C0	1238	1239	1246	1269	1320	1402	1549	1943	3088
C45	1228	1230	1237	1257	1295	1378	1549	1939	3212
C90	1224	1226	1230	1301	1268	1346	1453	1805	2923

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1320	1268	1295	1549	1453	1549	3088	2923	3212

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



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	617.30	620.03	617.30	609.12	597.30	579.12	556.39	529.11	498.20		
15.0	617.30	620.96	620.04	613.64	604.50	586.21	565.17	539.57	509.39		
30.0	617.30	622.80	621.89	616.38	605.38	588.87	567.77	544.84	514.57		
45.0	617.30	621.89	621.89	616.38	605.38	590.70	569.60	544.84	513.65		
60.0	617.30	622.83	623.75	618.22	607.16	590.58	570.31	544.51	515.03		
75.0	617.30	622.83	622.83	616.38	605.32	588.74	567.55	541.75	511.35		
90.0	617.30	621.91	620.06	613.61	601.64	585.05	562.94	535.30	505.82		
105.0	617.30	620.99	619.15	610.84	598.85	581.31	557.32	530.56	497.35		
120.0	617.30	619.15	615.45	607.15	592.39	573.01	549.02	519.49	488.12		
135.0	617.30	617.30	611.76	601.61	585.93	563.78	538.87	510.26	477.05		
150.0	617.30	615.45	608.97	596.94	561.77	557.14	529.38	498.84	466.45		
165.0	617.30	612.68	604.36	588.65	571.09	547.07	518.42	487.00	449.11		
180.0	617.30	609.12	595.48	577.30	555.48	526.39	497.29	460.02	424.56		
195.0	617.30	608.15	594.44	573.40	550.54	522.19	489.27	453.60	415.19		
210.0	617.30	607.21	590.70	570.52	545.76	515.49	484.30	445.78	409.09		
225.0	617.30	605.38	589.78	568.69	543.00	513.65	479.71	443.02	403.58		
240.0	617.30	607.16	590.58	569.39	544.51	514.11	480.94	444.09	405.39		
255.0	617.30	607.16	590.58	571.23	545.43	514.11	482.78	446.85	408.15		
270.0	617.30	607.16	592.42	572.15	546.36	517.79	484.63	448.69	412.76		
285.0	617.30	608.07	594.23	574.85	551.79	523.18	490.89	455.82	447.52		
300.0	617.30	609.92	597.00	579.47	574.85	530.56	499.19	465.05	429.06		
315.0	617.30	610.84	600.69	585.00	563.78	537.95	510.26	476.12	442.91		
330.0	617.30	613.60	606.19	592.31	572.88	550.66	522.90	491.43	456.26		
345.0	617.30	615.45	608.06	596.97	579.41	558.16	533.21	502.71	470.37		
360.0	617.30	620.03	617.30	609.12	597.30	579.12	556.39	529.11	498.20		
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	465.47	428.20	388.20	349.11	310.01	267.28	230.01	195.46	153.64		
15.0	474.63	438.05	398.73	361.23	321.00	277.10	240.52	204.85	175.59		
30.0	481.55	445.78	407.25	365.98	327.45	284.34	249.49	211.88	177.03		
45.0	480.63	446.69	406.34	367.81	327.45	287.09	250.41	212.80	178.86		
60.0	481.86	445.01	406.31	364.85	321.55	280.09	239.55	204.54	169.53		
75.0	477.26	440.40	403.55	362.09	321.55	275.48	238.63	200.85	165.84		
90.0	471.73	434.87	395.26	354.72	313.26	273.64	223.89	191.64	159.39		
105.0	463.21	426.30	386.62	347.87	306.34	265.74	226.07	184.54	142.10		
120.0	453.98	416.15	377.39	335.87	296.19	256.52	221.45	186.39	153.17		
135.0	441.06	402.31	365.40	323.87	286.04	248.21	211.30	179.01	149.48		
150.0	430.35	391.48	352.61	312.81	273.94	238.78	206.38	173.99	142.52		
165.0	414.00	376.11	339.15	301.26	263.37	228.25	194.99	162.64	132.15		
180.0	386.38	346.38	307.29	268.19	232.74	199.10	160.01	132.73	108.19		
195.0	375.87	336.54	299.05	258.81	224.06	191.13	158.21	128.95	101.51		
210.0	368.73	329.29	288.93	250.41	214.63	177.94	149.51	120.16	98.14		
225.0	364.14	322.87	282.51	244.90	203.63	170.61	139.42	116.49	94.48		
240.0	366.69	322.47	282.85	242.31	203.62	168.61	139.12	113.33	89.37		
255.0	367.62	326.16	286.54	242.31	204.54	167.68	137.28	130.83	87.53		
270.0	370.38	331.68	291.14	278.25	208.22	174.13	141.89	113.33	88.45		
285.0	382.01	340.48	300.81	260.21	221.45	184.54	151.33	121.80	93.19		
300.0	392.16	351.56	310.03	271.28	230.68	193.77	157.79	130.10	103.34		
315.0	404.15	366.32	326.64	286.04	247.29	211.30	179.01	146.71	121.80		
330.0	420.17	381.30	341.50	303.56	261.91	224.89	190.65	163.81	138.82		
345.0	435.25	394.59	356.70	316.04	276.31	237.49	199.61	172.81	146.93		
360.0	465.47	428.20	388.20	349.11	310.01	267.28	230.01	195.46	153.64		

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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	139.10	120.91	100.91	79.09	62.73	44.55	29.09	20.00	14.55		
15.0	121.63	117.06	96.02	75.90	56.70	39.32	23.78	18.29	13.72		
30.0	144.01	105.48	80.72	65.12	47.70	30.27	19.26	16.51	11.01		
45.0	140.34	110.07	71.54	50.45	32.10	23.85	19.26	13.76	8.26		
60.0	136.36	104.11	63.57	43.30	30.40	23.03	16.58	11.98	8.29		
75.0	128.99	105.03	61.73	44.22	32.25	23.95	17.51	12.90	10.13		
90.0	127.15	100.43	54.36	46.99	37.78	25.80	20.27	15.66	11.98		
105.0	125.49	95.96	49.83	44.29	34.14	24.91	20.30	15.69	12.00		
120.0	98.73	84.89	48.90	36.91	23.07	19.38	15.69	12.92	11.07		
135.0	119.95	71.97	41.52	29.53	23.99	15.69	11.07	8.30	6.46		
150.0	111.98	69.41	41.65	24.99	19.44	13.88	9.25	6.48	4.63		
165.0	103.50	68.38	43.43	28.65	16.63	12.01	9.24	6.47	3.70		
180.0	83.64	57.28	40.91	26.36	18.18	12.73	9.09	6.36	4.55		
195.0	74.99	62.19	42.98	31.09	21.03	14.63	10.97	7.32	5.49		
210.0	79.80	62.37	46.78	34.85	24.77	15.59	11.92	8.26	6.42		
225.0	77.97	64.21	48.61	37.61	24.77	14.68	12.84	9.17	7.34		
240.0	73.71	58.04	54.36	30.40	21.19	12.90	7.37	6.45	5.53		
255.0	60.81	48.83	33.17	22.11	13.82	8.29	5.53	5.53	4.61		
270.0	62.65	41.46	21.19	15.66	10.13	7.37	5.53	5.53	4.61		
285.0	68.28	46.14	26.76	17.53	11.07	7.38	7.38	5.54	4.61		
300.0	75.66	61.82	45.21	30.45	17.53	12.00	10.15	9.23	8.30		
315.0	100.58	83.97	63.67	44.29	31.37	19.38	12.00	11.07	10.15		
330.0	115.69	99.95	79.59	61.08	44.42	27.76	18.51	12.96	11.11		
345.0	127.53	107.20	89.64	69.31	51.75	37.89	23.10	15.71	12.01		
360.0	139.10	120.91	100.91	79.09	62.73	44.55	29.09	20.00	14.55		
C/ $\gamma(^{\circ})$	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0		
0.0	9.09	6.36	5.45	4.55	4.55	5.45	5.45	5.45	6.36		
15.0	8.23	6.40	4.57	4.57	4.57	5.49	5.49	5.49	6.40		
30.0	7.34	5.50	4.59	4.59	4.59	5.50	5.50	6.42	7.34		
45.0	5.50	4.59	4.59	4.59	4.59	5.50	5.50	6.42	7.34		
60.0	6.45	5.53	4.61	4.61	5.53	5.53	6.45	7.37	7.37		
75.0	7.37	6.45	5.53	5.53	5.53	6.45	6.45	7.37	7.37		
90.0	9.21	7.37	6.45	6.45	6.45	7.37	7.37	8.29	7.37		
105.0	10.15	7.38	6.46	6.46	7.38	7.38	8.30	8.30	8.30		
120.0	8.30	7.38	6.46	6.46	7.38	8.30	8.30	8.30	8.30		
135.0	4.61	4.61	4.61	5.54	6.46	7.38	7.38	8.30	8.30		
150.0	3.70	3.70	3.70	4.63	5.55	6.48	6.48	7.40	8.33		
165.0	3.70	3.70	3.70	4.62	5.54	6.47	6.47	7.39	7.39		
180.0	3.64	3.64	3.64	3.64	3.64	4.55	6.36	7.27	7.27		
195.0	4.57	3.66	3.66	3.66	4.57	4.57	6.40	6.40	7.32		
210.0	4.59	4.59	4.59	5.50	5.50	5.50	5.50	6.42	7.34		
225.0	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	7.34		
240.0	4.61	4.61	5.53	5.53	6.45	6.45	4.61	5.53	7.37		
255.0	4.61	4.61	4.61	5.53	5.53	6.45	5.53	6.45	7.37		
270.0	4.61	4.61	4.61	5.53	5.53	5.53	5.53	6.45	7.37		
285.0	3.69	2.77	3.69	4.61	4.61	5.54	4.61	6.46	7.38		
300.0	6.46	5.54	4.61	3.69	3.69	4.61	4.61	6.46	6.46		
315.0	8.30	7.38	6.46	5.54	4.61	4.61	5.54	7.38	6.46		
330.0	9.25	7.40	6.48	5.55	4.63	4.63	4.63	6.48	6.48		
345.0	9.24	6.47	5.54	4.62	4.62	4.62	4.62	5.54	6.47		
360.0	9.09	6.36	5.45	4.55	4.55	5.45	5.45	5.45	6.36		

Intensity data(cd)

C/ $\gamma(^{\circ})$	180.0
0.0	7.27
15.0	7.32
30.0	8.26
45.0	8.26
60.0	8.29
75.0	7.37
90.0	7.37
105.0	7.38
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