
弗格斯莱

Client:

LumCAT: CLSP24LAJUDBK

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.211

Lamp flux(lm): 1408.2

Power (W): 25.180

Number of Lamps: 1

PF: 0.995

Length(mm): 540

Width(mm): 520

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1408.20, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 55.93

Central intensity(cd): 413.220, Maximum intensity(cd): 413.220

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=116.8

[C90/270]Total=120.0

Field angle(10%Imax): [C0/180]Total=193.6

[C90/270]Total=186.8

Maximum s/h(1/2): C0_180=1.25 C90_270=1.25

Maximum s/h(1/4): C0_180=1.38 C90_270=1.38

Up flux rate of lamp(%): 6.22%

Down flux rate of lamp(%): 93.78%

Up flux rate of LUM(%): 6.22%

Down flux rate of LUM(%): 93.78%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 66.740%

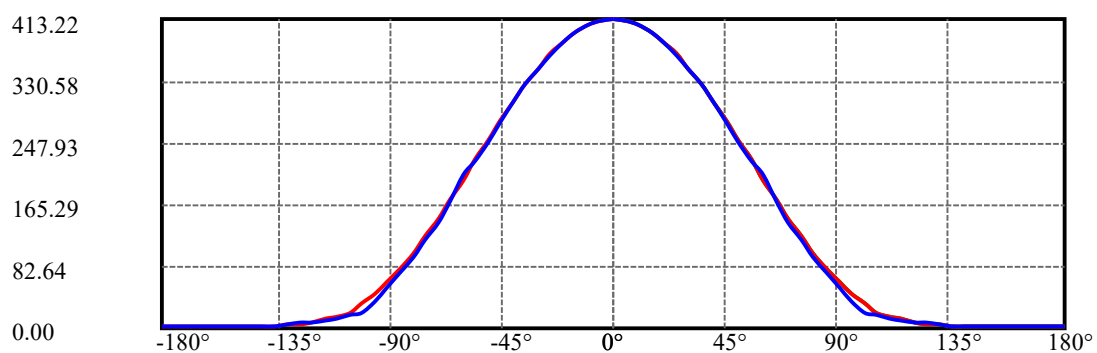
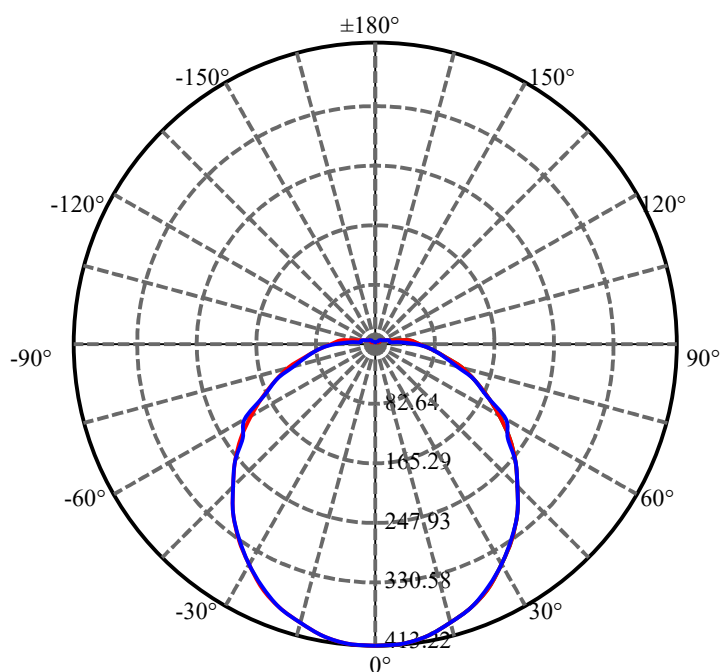
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	413.220	0.000	0	0.00%	0.00%
5.0	411.533	9.860	9.86	0.70%	0.70%
10.0	405.860	29.241	39.1	2.08%	2.78%
15.0	396.392	47.589	86.689	3.38%	6.16%
20.0	383.473	64.272	150.961	4.56%	10.72%
25.0	367.260	78.738	229.699	5.59%	16.31%
30.0	348.095	90.529	320.228	6.43%	22.74%
35.0	326.512	99.341	419.569	7.05%	29.79%
40.0	303.514	105.115	524.684	7.46%	37.26%
45.0	277.602	107.598	632.282	7.64%	44.90%
50.0	251.076	106.827	739.109	7.59%	52.49%
55.0	223.858	103.266	842.375	7.33%	59.82%
60.0	197.794	97.464	939.839	6.92%	66.74%
65.0	170.000	89.411	1029.25	6.35%	73.09%
70.0	143.857	79.471	1108.721	5.64%	78.73%
75.0	119.169	68.751	1177.472	4.88%	83.62%
80.0	97.437	57.958	1235.429	4.12%	87.73%
85.0	77.196	47.452	1282.881	3.37%	91.10%
90.0	60.448	37.688	1320.569	2.68%	93.78%
95.0	41.156	27.820	1348.389	1.98%	95.75%
100.0	25.322	18.064	1366.453	1.28%	97.04%
105.0	18.168	11.636	1378.089	0.83%	97.86%
110.0	13.299	8.225	1386.314	0.58%	98.45%
115.0	9.886	5.871	1392.185	0.42%	98.86%
120.0	7.629	4.258	1396.443	0.30%	99.16%
125.0	5.713	3.084	1399.527	0.22%	99.38%
130.0	4.255	2.167	1401.694	0.15%	99.54%
135.0	3.067	1.480	1403.174	0.11%	99.64%
140.0	2.454	1.022	1404.196	0.07%	99.72%
145.0	2.263	0.787	1404.983	0.06%	99.77%
150.0	2.530	0.706	1405.689	0.05%	99.82%
155.0	2.838	0.679	1406.368	0.05%	99.87%
160.0	2.953	0.607	1406.975	0.04%	99.91%
165.0	3.297	0.515	1407.49	0.04%	99.95%
170.0	3.335	0.393	1407.884	0.03%	99.98%
175.0	3.680	0.251	1408.135	0.02%	100.00%
180.0	1.878	0.066	1408.201	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	320.23	22.74%	22.74%
0-40	524.68	37.26%	37.26%
0-60	939.84	66.74%	66.74%
0-90	1320.57	93.78%	93.78%
0-120	1396.44	99.17%	99.16%
0-180	1408.20	100.00%	100.00%
60-90	380.73	27.04%	27.04%
90-120	75.87	5.39%	5.39%
90-130	81.12	5.76%	5.76%
90-150	85.12	6.04%	6.04%
90-180	87.57	6.22%	6.22%
0-71.30	1126.56	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	39.10
10-20	111.86
20-30	169.27
30-40	204.46
40-50	214.43
50-60	200.73
60-70	168.88
70-80	126.71
80-90	85.14
90-100	45.88
100-110	19.86
110-120	10.13
120-130	5.25
130-140	2.50
140-150	1.49
150-160	1.29
160-170	0.91
170-180	0.25



C0(Max):

C0/C180:

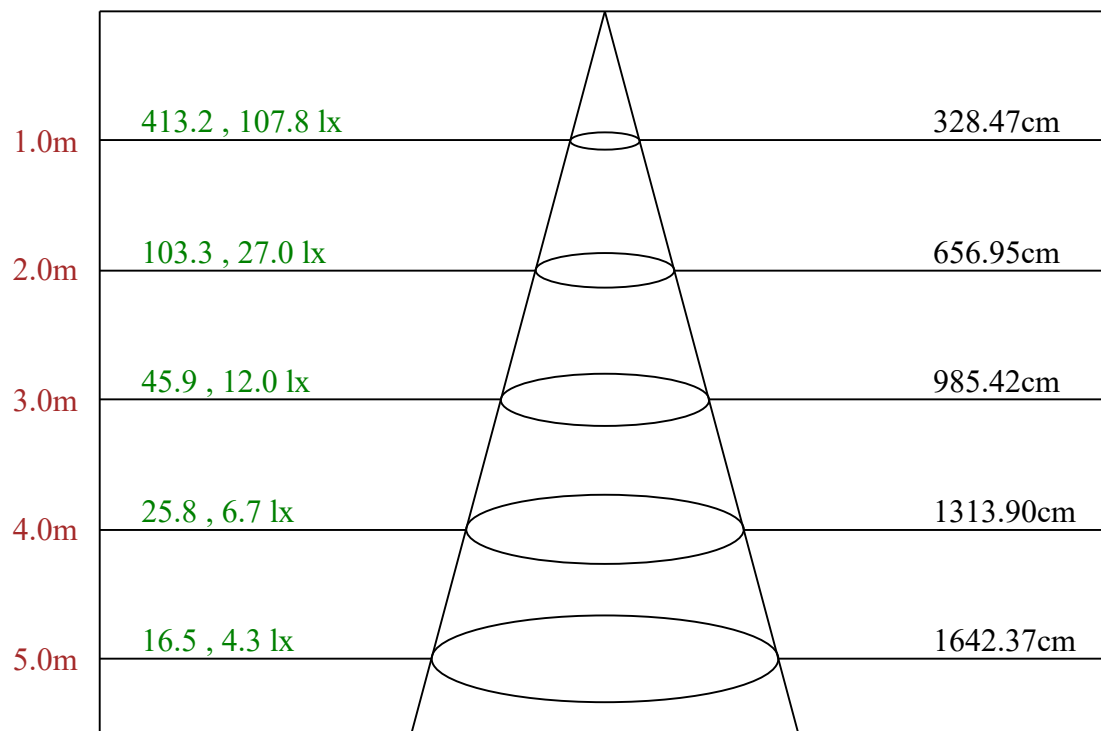
C90/C270:

Field angle(10%Imax):C0/180Left:96.8 Right:96.8

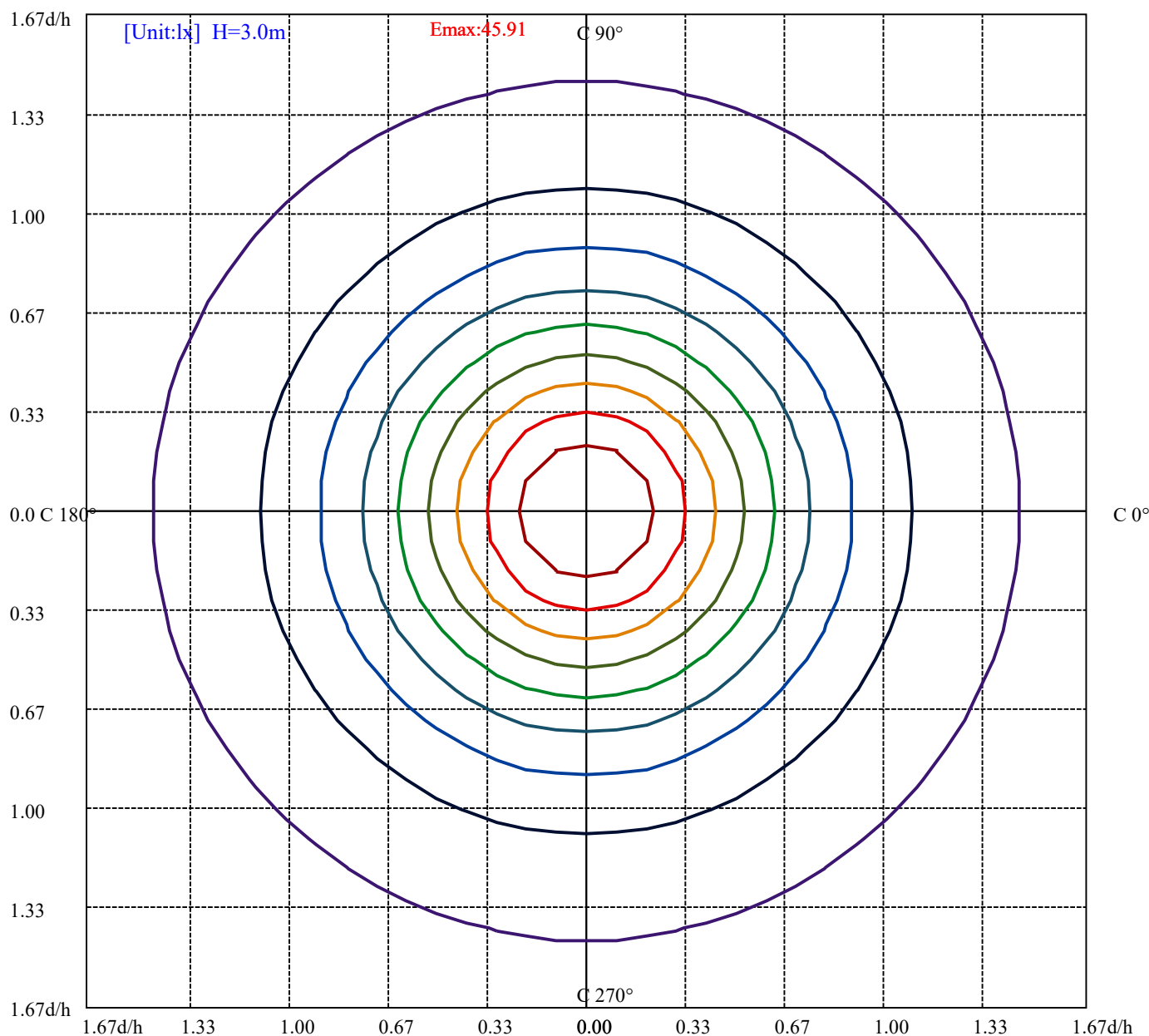
:C90/270Left:93.4 Right:93.4

Beam Angle(50%Imax):C0/180Left:58.4 Right:58.4

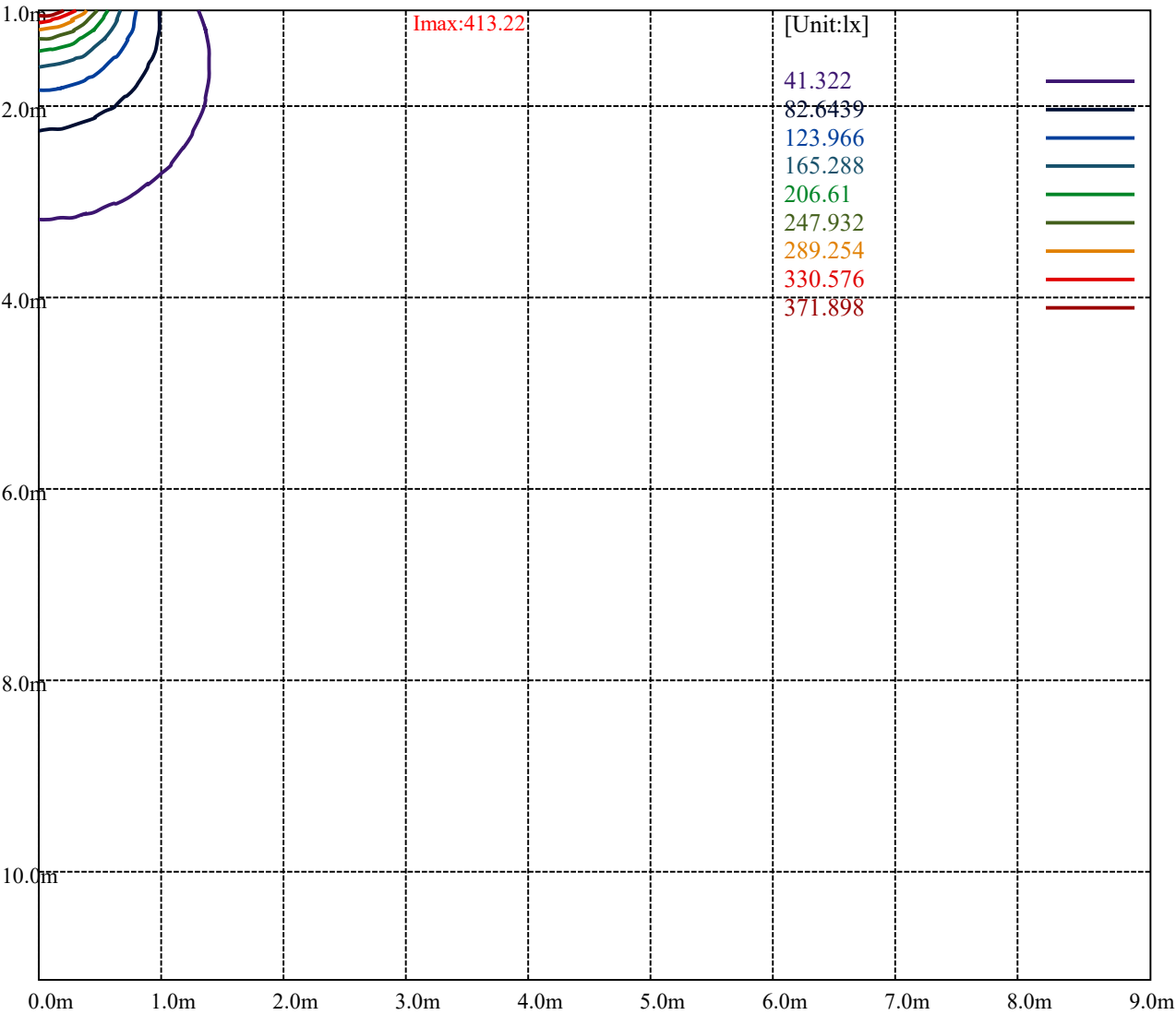
:C90/270Left:60.0 Right:60.0



Max , Ave Beam angle of C0 plane 117.33



(10%Emax)	4.591333	—
(20%Emax)	9.182655	—
(30%Emax)	13.774	—
(40%Emax)	18.36533	—
(50%Emax)	22.95667	—
(60%Emax)	27.548	—
(70%Emax)	32.13933	—
(80%Emax)	36.73067	—
(90%Emax)	41.322	—



Luminance Table

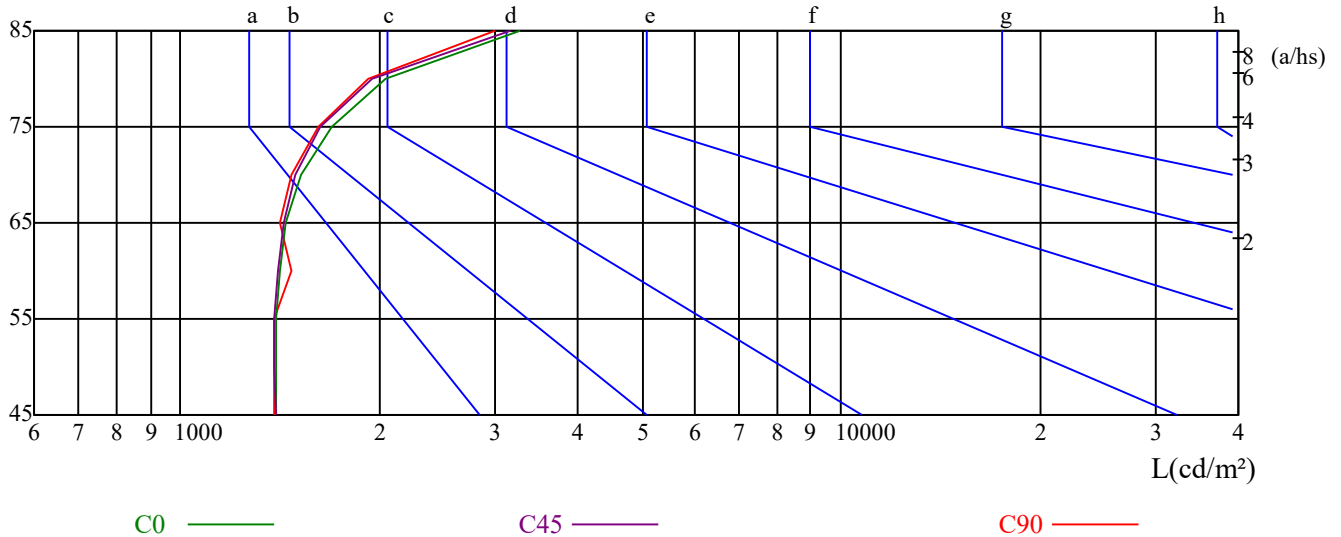
γ	45	50	55	60	65	70	75	80	85
C0	1397	1391	1395	1413	1447	1524	1690	2044	3258
C45	1398	1390	1386	1401	1429	1494	1626	1956	3153
C90	1389	1385	1386	1472	1418	1474	1612	1929	2996

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1447	1418	1429	1690	1612	1626	3258	2996	3153

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

 $\gamma(^{\circ})$ 

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	1.18	1.18	1.18	1.14	1.14	1.14	1.08	1.08	1.08	1.02	1.02	1.02	0.96	0.96	0.96	0.94
1	1.00	0.94	0.90	0.97	0.92	0.88	0.91	0.87	0.84	0.86	0.83	0.80	0.81	0.79	0.77	0.74
2	0.86	0.78	0.72	0.83	0.76	0.70	0.79	0.73	0.68	0.74	0.70	0.65	0.70	0.66	0.63	0.60
3	0.75	0.66	0.59	0.73	0.65	0.58	0.69	0.62	0.56	0.65	0.59	0.54	0.62	0.57	0.53	0.50
4	0.66	0.57	0.50	0.64	0.56	0.49	0.61	0.53	0.47	0.58	0.51	0.46	0.55	0.49	0.45	0.42
5	0.59	0.49	0.42	0.57	0.48	0.42	0.54	0.47	0.41	0.52	0.45	0.40	0.49	0.43	0.39	0.36
6	0.53	0.44	0.37	0.51	0.43	0.36	0.49	0.41	0.36	0.47	0.40	0.35	0.45	0.39	0.34	0.32
7	0.48	0.39	0.32	0.47	0.38	0.32	0.45	0.37	0.31	0.43	0.36	0.31	0.41	0.35	0.30	0.28
8	0.44	0.35	0.29	0.43	0.34	0.29	0.41	0.33	0.28	0.39	0.32	0.27	0.37	0.31	0.27	0.25
9	0.40	0.32	0.26	0.39	0.31	0.26	0.37	0.30	0.25	0.36	0.29	0.25	0.34	0.29	0.24	0.22
10	0.37	0.29	0.23	0.36	0.28	0.23	0.35	0.28	0.23	0.33	0.27	0.22	0.32	0.26	0.22	0.20

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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	413.22	415.03	413.22	407.78	398.72	386.03	369.72	351.60	329.85		
15.0	413.22	416.87	415.04	410.48	402.27	389.50	374.00	355.75	335.68		
30.0	413.22	417.81	416.89	412.30	404.96	393.02	377.41	359.04	337.92		
45.0	413.22	416.91	416.91	413.22	404.92	392.93	378.17	360.64	339.43		
60.0	413.22	416.91	416.91	413.22	404.92	394.77	379.09	360.64	339.43		
75.0	413.22	416.91	416.91	412.30	404.00	392.01	377.25	357.88	338.51		
90.0	413.22	415.99	415.06	410.45	402.15	389.24	374.48	356.03	334.82		
105.0	413.22	415.99	414.14	408.61	399.38	387.39	370.79	352.34	330.21		
120.0	413.22	415.06	412.30	405.84	396.62	381.86	365.26	344.96	321.91		
135.0	413.22	413.22	409.54	401.26	391.13	376.41	358.00	339.59	314.75		
150.0	413.22	412.30	406.75	399.35	373.47	371.62	353.13	331.87	308.76		
165.0	413.22	411.37	405.82	395.66	382.71	366.07	347.59	325.40	298.59		
180.0	413.22	406.88	397.81	384.22	367.91	348.88	325.32	302.67	276.39		
195.0	413.22	407.75	396.80	383.12	365.79	344.81	322.00	297.37	272.74		
210.0	413.22	406.79	395.77	381.08	362.72	341.59	320.47	292.93	267.22		
225.0	413.22	405.84	394.77	380.01	361.57	341.28	317.29	292.39	266.56		
240.0	413.22	405.84	393.85	379.09	360.64	340.35	315.45	291.47	264.72		
255.0	413.22	405.84	394.77	380.01	361.57	340.35	317.29	292.39	264.72		
270.0	413.22	405.84	395.69	380.94	363.41	341.28	319.14	294.23	268.41		
285.0	413.22	407.69	398.46	384.63	368.02	347.73	324.67	300.69	294.23		
300.0	413.22	408.61	400.31	387.39	383.70	352.34	331.13	307.15	281.32		
315.0	413.22	408.62	401.26	391.13	375.49	358.92	337.75	314.75	289.90		
330.0	413.22	410.45	403.98	393.81	380.86	365.15	345.74	323.55	300.44		
345.0	413.22	412.30	407.67	397.50	386.41	370.70	353.13	330.95	307.83		
360.0	413.22	415.03	413.22	407.78	398.72	386.03	369.72	351.60	329.85		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	305.38	280.92	254.64	228.36	200.27	172.17	146.80	121.43	99.68		
15.0	311.97	286.43	260.88	232.61	205.24	178.79	151.42	125.88	103.08		
30.0	316.80	289.25	264.46	235.99	207.53	179.98	151.51	128.56	103.76		
45.0	317.29	291.47	264.72	237.05	207.53	179.86	148.50	118.99	97.77		
60.0	315.45	292.39	263.80	237.05	207.53	178.94	149.42	122.67	101.46		
75.0	314.53	289.62	263.80	235.20	205.69	176.17	150.35	119.91	95.00		
90.0	310.84	285.93	260.11	232.44	203.84	175.25	148.50	122.67	96.85		
105.0	306.23	281.32	254.57	227.82	202.00	172.48	146.66	121.75	97.77		
120.0	298.85	273.02	246.27	221.37	194.62	167.87	141.12	115.30	95.93		
135.0	291.74	265.97	239.28	212.59	186.82	159.21	134.37	111.36	90.19		
150.0	283.80	256.99	230.18	204.30	178.41	152.53	127.57	106.31	83.20		
165.0	277.33	249.60	221.86	194.13	168.25	144.21	121.10	98.91	74.88		
180.0	249.20	221.11	194.83	168.55	143.18	120.52	98.77	77.93	59.81		
195.0	243.55	216.19	188.82	162.37	136.83	111.29	89.39	70.24	53.82		
210.0	239.67	211.20	182.73	155.19	130.39	104.68	83.56	66.12	51.42		
225.0	237.05	208.45	178.94	152.19	125.44	100.54	79.32	59.03	44.27		
240.0	237.05	208.45	179.86	153.11	123.60	99.62	76.56	59.95	44.27		
255.0	238.89	211.22	182.63	154.96	128.21	101.46	79.32	75.63	45.20		
270.0	240.74	213.99	186.32	180.78	132.82	107.92	85.78	65.49	49.81		
285.0	247.19	220.45	191.85	165.10	139.28	115.30	91.31	72.87	56.26		
300.0	255.50	228.75	201.08	175.25	149.42	125.44	104.23	83.94	67.33		
315.0	264.13	237.44	209.83	184.98	158.29	134.37	110.44	92.03	76.39		
330.0	275.48	247.75	220.94	194.13	168.25	143.29	118.33	97.99	83.20		
345.0	283.80	257.92	230.18	201.53	176.57	150.68	125.72	103.54	81.35		
360.0	305.38	280.92	254.64	228.36	200.27	172.17	146.80	121.43	99.68		

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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	78.84	60.71	42.59	23.56	19.03	16.31	9.97	7.25	6.34		
15.0	81.18	58.38	39.22	22.80	18.24	12.77	8.21	6.39	5.47		
30.0	79.89	59.69	35.81	20.20	16.53	11.02	7.35	6.43	4.59		
45.0	78.40	57.19	30.44	22.14	13.84	9.22	8.30	6.46	4.61		
60.0	78.40	52.57	31.36	21.21	13.84	11.99	9.22	7.38	5.53		
75.0	77.48	54.42	34.13	27.67	18.45	13.84	11.07	9.22	6.46		
90.0	72.87	55.34	30.44	29.52	20.29	14.76	12.91	10.15	7.38		
105.0	76.56	46.12	24.90	29.52	18.45	12.91	11.07	7.38	5.53		
120.0	75.63	45.20	24.90	19.37	16.60	10.15	8.30	5.53	4.61		
135.0	71.78	43.25	24.85	16.57	12.88	9.20	6.44	4.60	2.76		
150.0	64.71	45.30	25.88	18.49	12.02	8.32	5.55	3.70	2.77		
165.0	55.47	40.67	26.81	17.56	12.02	9.24	6.47	4.62	2.77		
180.0	42.59	32.62	21.75	15.41	10.87	8.16	6.34	3.62	2.72		
195.0	43.78	33.75	22.80	15.51	10.03	8.21	5.47	3.65	2.74		
210.0	40.40	32.14	22.96	12.86	8.26	6.43	4.59	2.75	1.84		
225.0	35.97	25.83	17.52	10.15	4.61	3.69	3.69	1.84	1.84		
240.0	30.44	22.14	18.45	6.46	3.69	2.77	1.84	1.84	1.84		
255.0	30.44	15.68	8.30	5.53	4.61	3.69	2.77	2.77	1.84		
270.0	35.05	15.68	11.99	8.30	6.46	5.53	4.61	3.69	2.77		
285.0	41.51	19.37	18.45	12.91	8.30	6.46	6.46	5.53	4.61		
300.0	56.26	29.52	20.29	17.52	13.84	11.99	9.22	5.53	3.69		
315.0	63.50	40.49	20.25	20.25	15.65	13.80	11.96	9.20	6.44		
330.0	68.41	48.99	24.96	22.19	19.41	12.94	12.02	9.24	6.47		
345.0	71.18	52.69	28.66	20.34	21.26	13.87	9.24	8.32	6.47		
360.0	78.84	60.71	42.59	23.56	19.03	16.31	9.97	7.25	6.34		
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0		
0.0	4.53	3.62	2.72	2.72	2.72	2.72	3.62	3.62	3.62		
15.0	3.65	2.74	2.74	2.74	2.74	2.74	3.65	3.65	3.65		
30.0	3.67	2.75	2.75	2.75	2.75	2.75	3.67	3.67	3.67		
45.0	3.69	2.77	2.77	2.77	2.77	3.69	3.69	3.69	3.69		
60.0	3.69	3.69	2.77	2.77	3.69	3.69	3.69	3.69	3.69		
75.0	3.69	2.77	2.77	3.69	3.69	3.69	3.69	3.69	3.69		
90.0	4.61	2.77	3.69	3.69	4.61	4.61	3.69	3.69	3.69		
105.0	4.61	2.77	2.77	3.69	3.69	3.69	3.69	3.69	3.69		
120.0	2.77	2.77	1.84	2.77	2.77	3.69	3.69	3.69	3.69		
135.0	1.84	1.84	1.84	1.84	2.76	2.76	3.68	3.68	3.68		
150.0	1.85	1.85	1.85	1.85	2.77	2.77	3.70	3.70	3.70		
165.0	1.85	1.85	1.85	1.85	2.77	2.77	3.70	3.70	3.70		
180.0	1.81	0.91	0.91	1.81	1.81	1.81	2.72	2.72	3.62		
195.0	1.82	0.91	0.91	1.82	1.82	1.82	2.74	2.74	3.65		
210.0	1.84	1.84	1.84	1.84	1.84	2.75	2.75	2.75	3.67		
225.0	1.84	1.84	1.84	1.84	2.77	2.77	2.77	2.77	3.69		
240.0	1.84	1.84	1.84	1.84	2.77	2.77	2.77	2.77	3.69		
255.0	1.84	1.84	1.84	2.77	2.77	2.77	2.77	2.77	3.69		
270.0	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	3.69		
285.0	3.69	3.69	2.77	2.77	3.69	2.77	2.77	3.69	3.69		
300.0	2.77	2.77	3.69	3.69	2.77	2.77	2.77	3.69	3.69		
315.0	3.68	2.76	1.84	2.76	2.76	2.76	3.68	3.68	3.68		
330.0	4.62	2.77	1.85	1.85	2.77	2.77	3.70	2.77	3.70		
345.0	4.62	2.77	1.85	1.85	1.85	2.77	2.77	2.77	3.70		
360.0	4.53	3.62	2.72	2.72	2.72	2.72	3.62	3.62	3.62		

Intensity data(cd)

C/ $\gamma(^{\circ})$	180.0
0.0	3.62
15.0	3.65
30.0	3.67
45.0	4.61
60.0	3.69
75.0	3.69
90.0	3.69
105.0	3.69
120.0	3.69
135.0	3.68
150.0	3.70
165.0	3.70
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	3.62