
弗格斯莱

Client:

LumCAT: CLSP24LAJUDBK

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.030

LampCAT:

Current(A): 0.208

Lamp flux(lm): 1316.9

Power (W): 24.840

Number of Lamps: 1

PF: 0.995

Length(mm): 540

Width(mm): 520

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1316.94, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 53.02

Central intensity(cd): 386.464, Maximum intensity(cd): 386.464

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=117.0

[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=1.26 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 : 66.755%

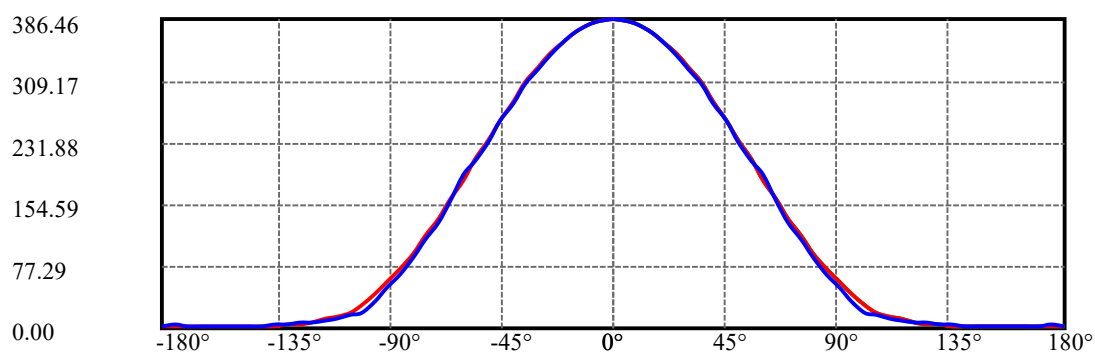
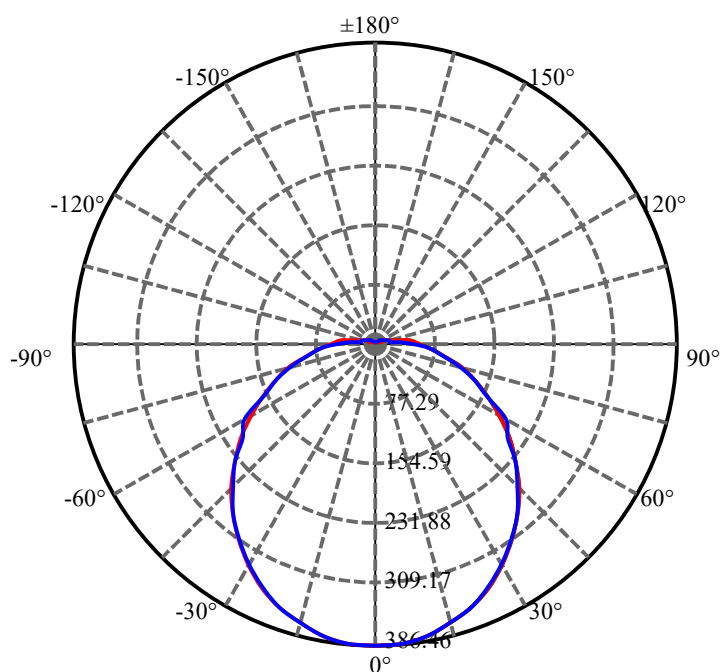
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	386.464	0.000	0	0.00%	0.00%
5.0	384.969	9.222	9.222	0.70%	0.70%
10.0	379.680	27.354	36.576	2.08%	2.78%
15.0	370.748	44.515	81.091	3.38%	6.16%
20.0	358.711	60.118	141.209	4.56%	10.72%
25.0	343.609	73.660	214.869	5.59%	16.32%
30.0	325.632	84.693	299.562	6.43%	22.75%
35.0	305.430	92.928	392.49	7.06%	29.80%
40.0	284.002	98.342	490.833	7.47%	37.27%
45.0	259.662	100.664	591.496	7.64%	44.91%
50.0	234.861	99.925	691.422	7.59%	52.50%
55.0	209.330	96.582	788.004	7.33%	59.84%
60.0	184.876	91.120	879.123	6.92%	66.76%
65.0	158.999	83.597	962.72	6.35%	73.10%
70.0	134.580	74.336	1037.056	5.64%	78.75%
75.0	111.426	64.302	1101.358	4.88%	83.63%
80.0	91.036	54.173	1155.531	4.11%	87.74%
85.0	72.099	44.328	1199.859	3.37%	91.11%
90.0	56.537	35.222	1235.081	2.67%	93.78%
95.0	38.359	25.983	1261.064	1.97%	95.76%
100.0	23.598	16.835	1277.899	1.28%	97.04%
105.0	17.056	10.878	1288.777	0.83%	97.86%
110.0	12.417	7.704	1296.481	0.58%	98.45%
115.0	9.274	5.492	1301.973	0.42%	98.86%
120.0	7.131	3.988	1305.961	0.30%	99.17%
125.0	5.367	2.889	1308.85	0.22%	99.39%
130.0	3.872	2.009	1310.859	0.15%	99.54%
135.0	2.952	1.379	1312.238	0.10%	99.64%
140.0	2.301	0.973	1313.211	0.07%	99.72%
145.0	2.147	0.742	1313.953	0.06%	99.77%
150.0	2.377	0.666	1314.619	0.05%	99.82%
155.0	2.607	0.631	1315.25	0.05%	99.87%
160.0	2.761	0.563	1315.813	0.04%	99.91%
165.0	2.953	0.471	1316.284	0.04%	99.95%
170.0	3.143	0.362	1316.646	0.03%	99.98%
175.0	3.258	0.229	1316.875	0.02%	100.00%
180.0	1.840	0.061	1316.935	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	299.56	22.75%	22.75%
0-40	490.83	37.27%	37.27%
0-60	879.12	66.76%	66.76%
0-90	1235.08	93.78%	93.78%
0-120	1305.96	99.17%	99.17%
0-180	1316.94	100.00%	100.00%
60-90	355.96	27.03%	27.03%
90-120	70.88	5.38%	5.38%
90-130	75.78	5.75%	5.75%
90-150	79.54	6.04%	6.04%
90-180	81.79	6.21%	6.21%
0-71.28	1053.55	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	36.58
10-20	104.63
20-30	158.35
30-40	191.27
40-50	200.59
50-60	187.70
60-70	157.93
70-80	118.48
80-90	79.55
90-100	42.82
100-110	18.58
110-120	9.48
120-130	4.90
130-140	2.35
140-150	1.41
150-160	1.19
160-170	0.83
170-180	0.23



C0(Max):

C0/C180:

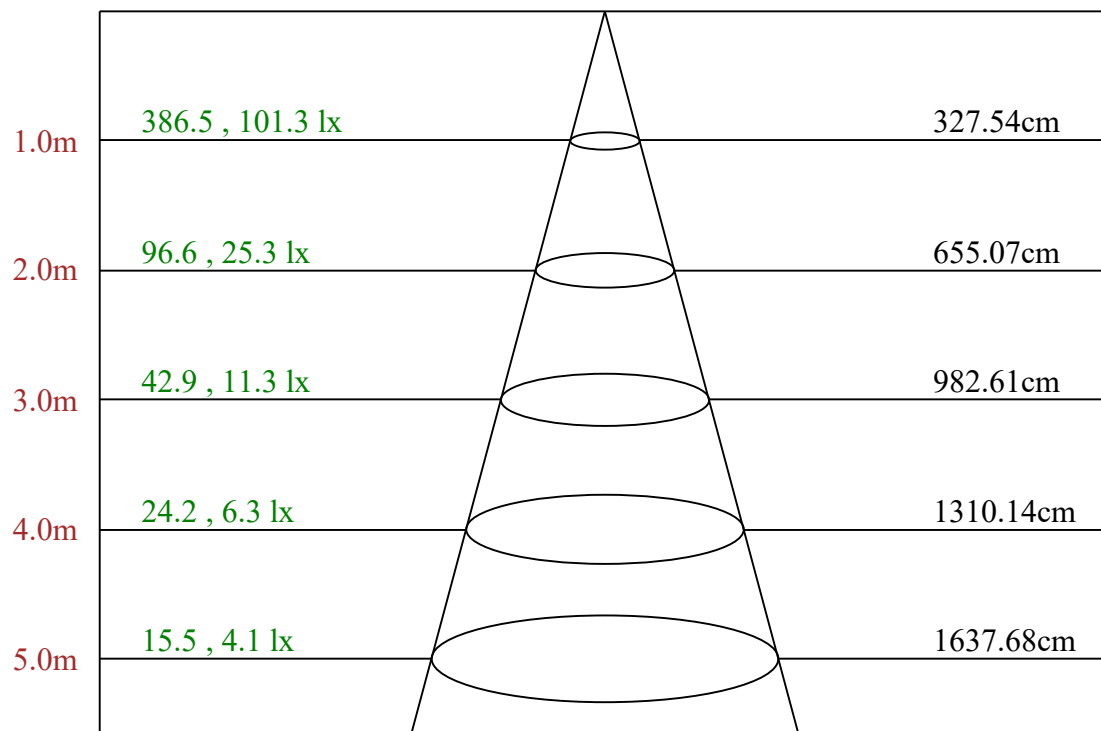
C90/C270:

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

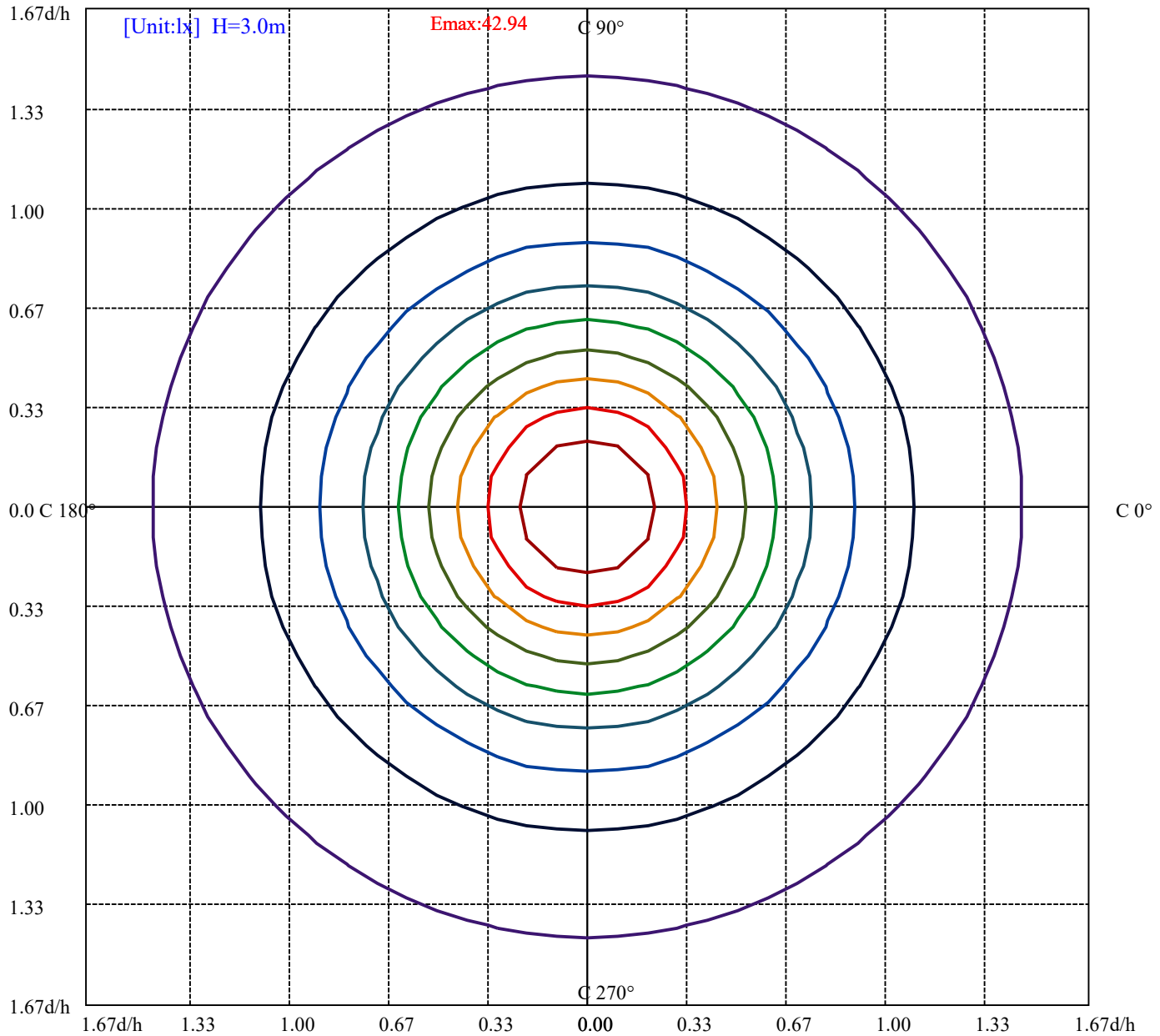
:C90/270Left:93.4 Right:93.4

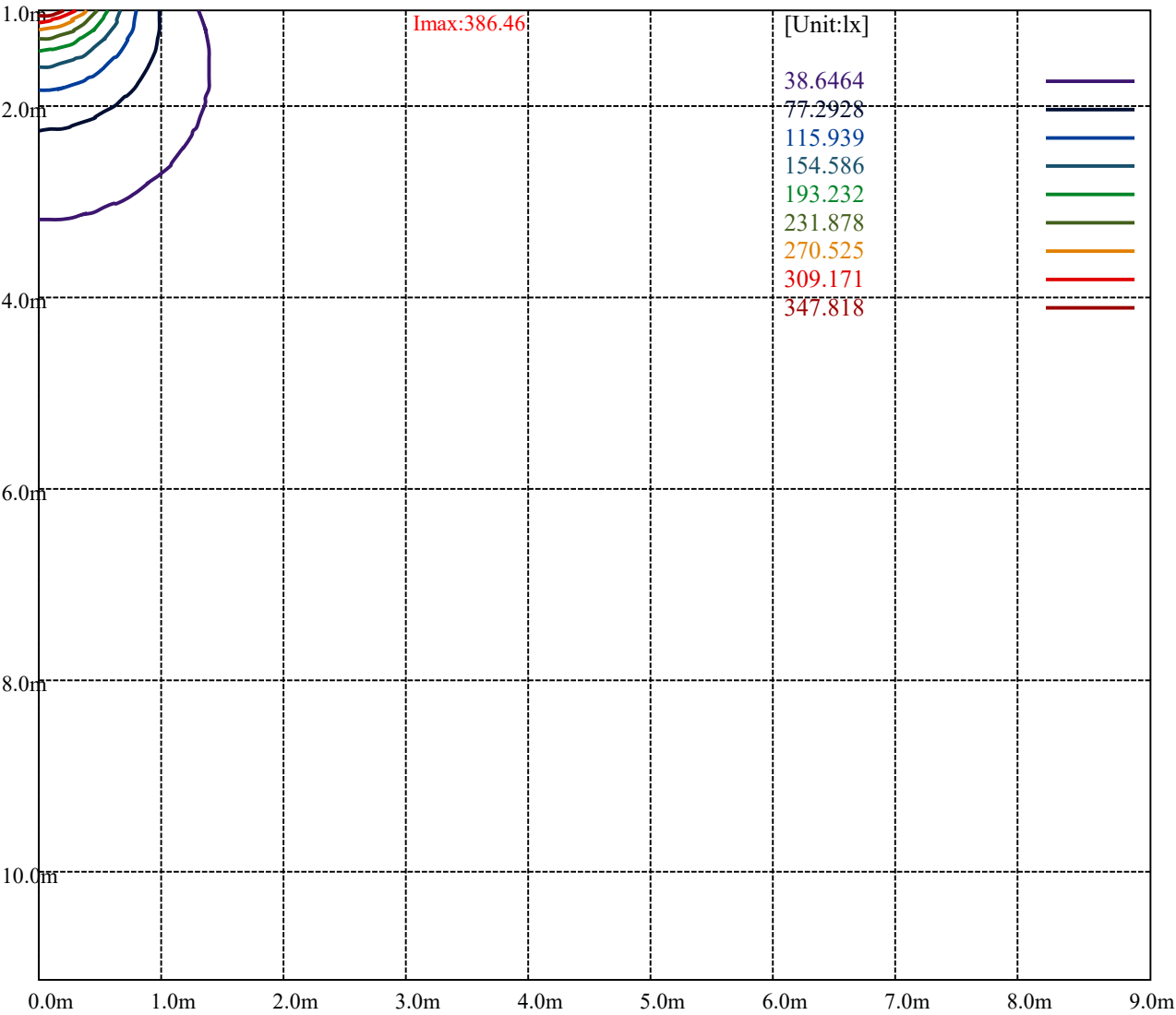
Beam Angle(50%Imax):C0/180Left:58.5 Right:58.5

:C90/270Left:60.0 Right:60.0



Max , Ave Beam angle of C0 plane 117.18





Luminance Table

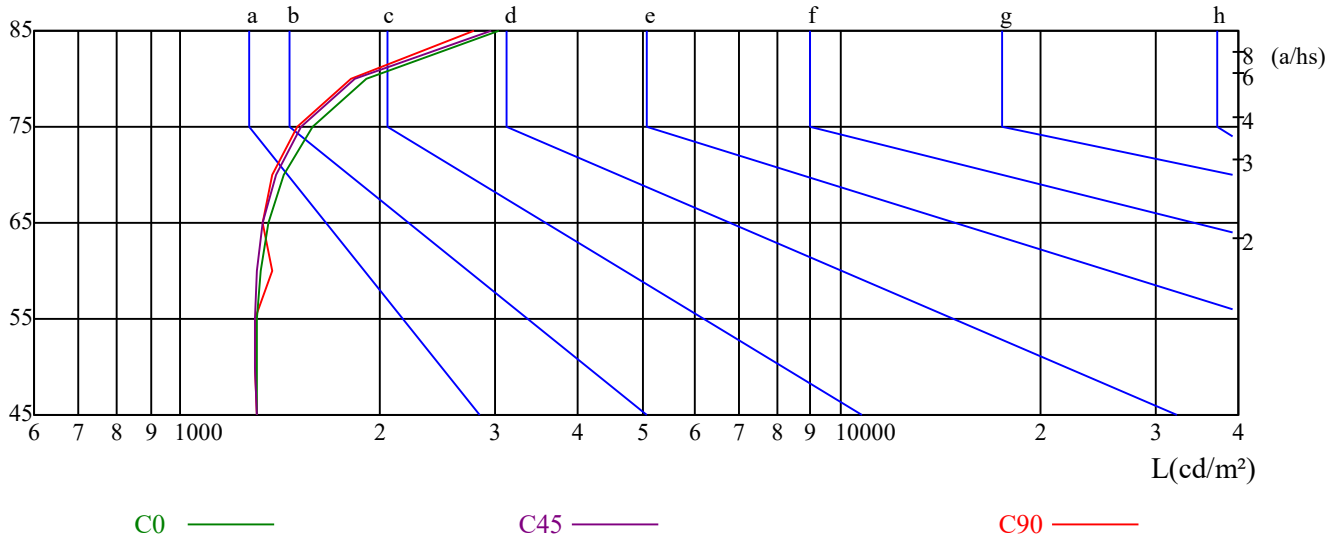
γ	45	50	55	60	65	70	75	80	85
C0	1309	1304	1307	1321	1357	1431	1585	1907	3040
C45	1308	1299	1297	1309	1335	1396	1518	1833	2955
C90	1301	1295	1294	1376	1329	1378	1504	1806	2789

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1357	1329	1335	1585	1504	1518	3040	2789	2955

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	0.52	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	386.46	389.19	386.46	381.93	372.86	361.06	346.55	329.31	309.35		
15.0	386.46	389.20	388.29	383.73	375.53	364.59	350.01	332.69	313.55		
30.0	386.46	390.14	390.14	385.55	378.20	368.10	352.50	335.98	315.78		
45.0	386.46	390.15	390.15	386.46	379.09	368.02	354.18	337.58	317.29		
60.0	386.46	390.15	390.15	386.46	379.09	368.94	355.10	337.58	317.29		
75.0	386.46	390.15	390.15	385.54	378.16	367.09	353.26	334.81	316.37		
90.0	386.46	389.23	388.31	383.70	376.32	364.33	350.49	332.97	312.68		
105.0	386.46	389.23	387.39	382.77	373.55	362.48	346.80	329.28	308.99		
120.0	386.46	388.31	385.54	380.01	370.78	356.95	342.19	322.82	300.69		
135.0	386.46	386.46	382.78	375.42	365.30	351.50	334.94	317.45	294.45		
150.0	386.46	385.54	380.92	373.52	349.48	347.63	330.99	310.65	289.39		
165.0	386.46	384.61	379.07	370.75	357.80	343.01	324.52	304.18	279.22		
180.0	386.46	381.02	371.95	359.25	343.83	326.59	304.82	283.04	259.46		
195.0	386.46	381.00	370.97	358.21	341.80	322.66	300.79	278.00	255.21		
210.0	386.46	380.04	369.94	356.17	339.65	319.45	299.26	273.55	249.69		
225.0	386.46	380.01	369.86	355.10	338.50	319.13	297.00	273.02	249.96		
240.0	386.46	380.01	368.94	354.18	337.58	318.21	295.15	273.02	247.19		
255.0	386.46	380.01	369.86	355.10	338.50	318.21	296.07	273.94	248.11		
270.0	386.46	380.01	369.86	356.03	340.35	319.13	297.92	274.86	250.88		
285.0	386.46	381.85	372.63	359.72	344.04	325.59	303.45	281.32	275.78		
300.0	386.46	381.85	374.47	362.48	358.79	329.28	309.91	287.77	263.79		
315.0	386.46	381.86	375.42	365.30	351.50	334.94	315.61	294.45	271.44		
330.0	386.46	383.69	378.14	368.90	356.88	342.09	323.59	302.33	281.06		
345.0	386.46	385.54	380.92	371.67	361.50	347.63	330.07	309.73	288.46		
360.0	386.46	389.19	386.46	381.93	372.86	361.06	346.55	329.31	309.35		
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	286.67	263.09	238.59	213.19	187.79	161.48	137.89	113.40	93.44		
15.0	291.67	267.97	243.36	216.93	191.41	166.80	142.19	117.58	95.70		
30.0	295.59	270.80	246.93	221.23	194.61	167.99	141.37	120.25	97.30		
45.0	297.00	273.02	248.11	221.36	193.69	167.87	138.35	111.60	91.31		
60.0	295.15	273.02	246.27	221.36	194.62	167.87	140.20	114.37	95.00		
75.0	294.23	271.17	246.27	219.52	191.85	165.10	140.20	111.60	88.55		
90.0	291.46	267.48	242.58	217.67	190.93	164.18	138.35	114.37	90.39		
105.0	285.93	262.87	238.89	213.06	188.16	161.41	137.43	113.45	92.23		
120.0	279.47	255.49	230.59	206.61	181.70	156.80	131.90	107.91	89.47		
135.0	273.29	248.44	223.60	198.75	174.83	149.06	126.06	103.98	84.65		
150.0	265.35	240.38	215.42	191.38	166.42	142.38	119.27	98.93	77.66		
165.0	258.88	233.91	207.10	182.14	157.17	134.99	112.80	92.46	70.27		
180.0	233.15	207.75	182.35	157.85	134.26	113.40	92.53	72.58	55.34		
195.0	227.87	202.35	175.91	151.30	127.61	104.82	83.86	65.63	50.13		
210.0	223.98	197.36	170.74	145.04	122.09	98.22	78.03	61.50	47.73		
225.0	221.36	194.62	167.87	142.04	117.14	94.08	73.79	55.34	41.51		
240.0	221.36	194.62	168.79	142.96	116.22	93.16	71.94	56.26	40.58		
255.0	223.21	197.38	170.63	144.81	119.91	95.00	74.71	70.10	42.43		
270.0	225.05	200.15	174.32	168.79	124.52	100.54	80.24	61.80	46.12		
285.0	231.51	205.68	179.86	154.03	130.97	107.91	84.86	68.25	52.57		
300.0	239.81	213.98	188.16	164.18	140.20	117.14	96.85	78.40	62.72		
315.0	247.52	221.76	195.99	172.99	148.14	125.14	103.06	86.49	71.77		
330.0	257.03	232.06	206.18	181.21	157.17	134.06	110.95	91.53	77.66		
345.0	265.35	241.31	215.42	188.61	164.57	140.53	117.42	97.08	75.81		
360.0	286.67	263.09	238.59	213.19	187.79	161.48	137.89	113.40	93.44		

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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	74.39	56.25	39.92	21.77	18.14	15.42	9.07	7.26	6.35		
15.0	75.65	54.69	36.46	21.88	17.32	11.85	7.29	6.38	4.56		
30.0	74.36	56.00	33.05	19.28	15.61	10.10	6.43	5.51	4.59		
45.0	72.87	53.50	28.59	21.21	12.91	9.22	7.38	5.53	4.61		
60.0	72.87	48.88	29.52	20.29	12.91	11.07	9.22	6.46	4.61		
75.0	72.87	50.73	32.28	25.83	17.52	12.91	10.15	8.30	5.53		
90.0	68.25	51.65	28.59	27.67	19.37	13.84	11.99	9.22	6.46		
105.0	71.94	42.43	23.06	27.67	17.52	11.99	10.15	7.38	5.53		
120.0	71.02	42.43	23.06	18.45	14.76	10.15	7.38	5.53	3.69		
135.0	67.17	40.49	23.00	15.64	11.96	8.28	6.44	3.68	2.76		
150.0	60.10	41.60	24.04	17.57	11.09	8.32	5.55	3.70	2.77		
165.0	51.78	37.91	25.89	16.64	11.09	8.32	6.47	4.62	2.77		
180.0	39.92	30.84	19.96	14.52	9.98	7.26	5.44	3.63	1.81		
195.0	41.02	30.99	20.96	14.58	10.03	7.29	5.47	3.65	1.82		
210.0	38.55	30.29	21.11	11.93	7.34	6.43	4.59	2.75	1.84		
225.0	33.20	23.98	16.60	9.22	4.61	3.69	3.69	1.84	1.84		
240.0	28.59	20.29	17.52	5.53	3.69	2.77	1.84	1.84	1.84		
255.0	28.59	14.76	7.38	5.53	3.69	3.69	2.77	2.77	1.84		
270.0	32.28	14.76	11.07	7.38	5.53	4.61	4.61	3.69	2.77		
285.0	38.74	17.52	17.52	11.99	7.38	6.46	5.53	4.61	3.69		
300.0	52.57	27.67	18.45	15.68	12.91	11.07	8.30	5.53	3.69		
315.0	59.81	37.73	18.40	19.32	14.72	12.88	11.04	8.28	5.52		
330.0	63.79	45.30	23.11	21.26	18.49	12.02	11.09	9.25	6.47		
345.0	66.57	49.93	26.81	18.49	19.42	12.94	9.25	7.40	5.55		
360.0	74.39	56.25	39.92	21.77	18.14	15.42	9.07	7.26	6.35		
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0		
0.0	4.54	3.63	2.72	2.72	2.72	2.72	2.72	3.63	3.63		
15.0	3.65	2.73	2.73	2.73	2.73	2.73	2.73	3.65	3.65		
30.0	2.75	2.75	1.84	2.75	2.75	2.75	2.75	3.67	3.67		
45.0	3.69	2.77	2.77	2.77	2.77	2.77	3.69	3.69	3.69		
60.0	3.69	2.77	2.77	2.77	2.77	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	2.77	3.69	3.69	3.69	3.69	3.69	3.69		
105.0	3.69	2.77	2.77	3.69	3.69	3.69	3.69	3.69	3.69		
120.0	2.77	1.84	1.84	1.84	2.77	2.77	3.69	3.69	3.69		
135.0	1.84	1.84	1.84	1.84	2.76	2.76	2.76	2.76	2.76		
150.0	1.85	1.85	1.85	1.85	2.77	2.77	2.77	2.77	2.77		
165.0	1.85	1.85	1.85	1.85	2.77	2.77	2.77	2.77	2.77		
180.0	1.81	0.91	0.91	1.81	1.81	1.81	2.72	2.72	2.72		
195.0	1.82	0.91	0.91	1.82	1.82	1.82	1.82	2.73	2.73		
210.0	1.84	1.84	1.84	1.84	1.84	1.84	2.75	2.75	2.75		
225.0	1.84	1.84	1.84	1.84	1.84	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	1.84	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	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77		
300.0	2.77	2.77	2.77	2.77	2.77	2.77	2.77	3.69	2.77		
315.0	3.68	1.84	1.84	1.84	2.76	2.76	2.76	2.76	2.76		
330.0	4.62	2.77	1.85	1.85	1.85	2.77	2.77	2.77	2.77		
345.0	3.70	2.77	1.85	1.85	1.85	1.85	2.77	2.77	2.77		
360.0	4.54	3.63	2.72	2.72	2.72	2.72	2.72	3.63	3.63		

Intensity data(cd)

C/ $\gamma(^{\circ})$	180.0
0.0	3.63
15.0	3.65
30.0	3.67
45.0	3.69
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	3.63