
弗格斯莱

Client:

LumCAT: KNOP36LAJUDPC

Luminaire: LED LAMP

Report No:

Ballast type:

Test No:

Voltage(V): 120.050

LampCAT:

Current(A): 0.459

Lamp flux(lm): 2670.8

Power (W): 54.640

Number of Lamps: 1

PF: 0.991

Length(mm): 1020

Width(mm): 140

Phm Type: C

Height(mm): 120

Photometric Results

Lumens(lm): 2670.80, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 48.88

Central intensity(cd): 10.018, Maximum intensity(cd): 317.838

Angle of maximum intensity: C=75.0 γ =90.0

Beam Angle(50%Imax): [C0/180]Total=283.2

[C90/270]Total=283.8

Field angle(10%Imax): [C0/180]Total=335.0

[C90/270]Total=338.6

Maximum s/h(1/2): C0_180=7.62 C90_270=8.65

Maximum s/h(1/4): C0_180=7.11 C90_270=7.71

Up flux rate of lamp(%): 49.45%

Down flux rate of lamp(%): 50.55%

Up flux rate of LUM(%): 49.45%

Down flux rate of LUM(%): 50.55%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 18.989%

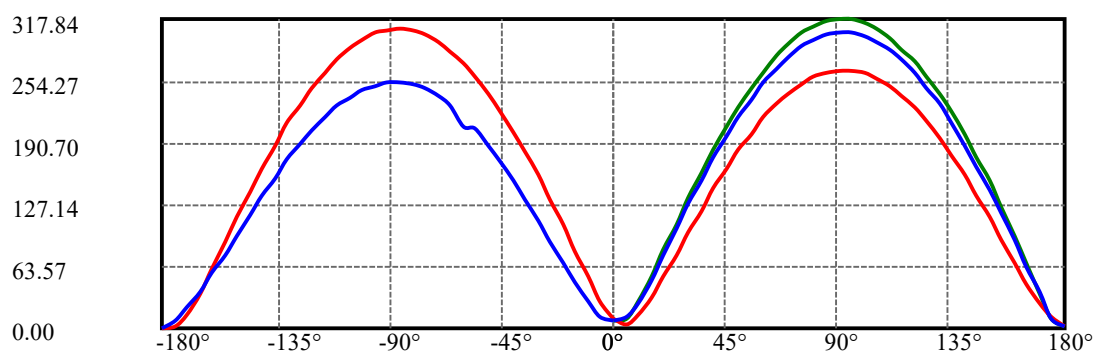
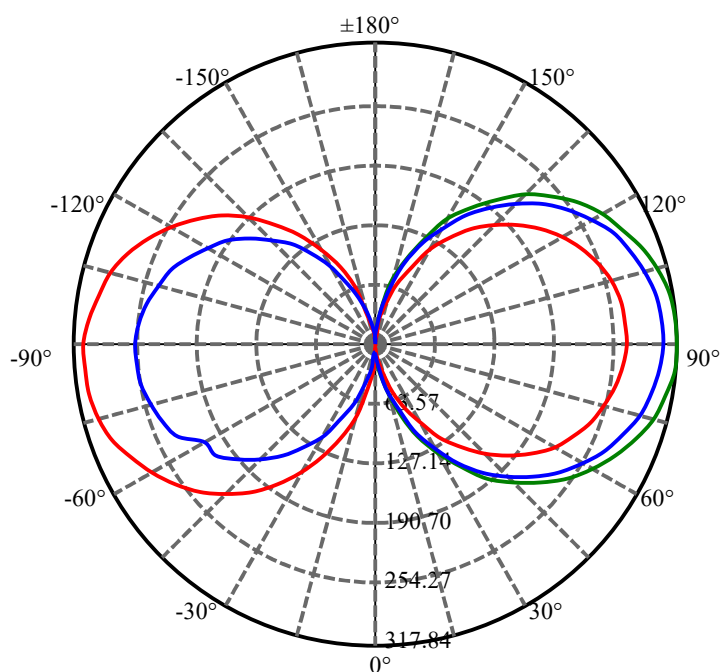
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8.045	0.000	0	0.00%	0.00%
5.0	14.002	0.264	0.264	0.01%	0.01%
10.0	31.154	1.615	1.879	0.06%	0.07%
15.0	53.239	5.006	6.885	0.19%	0.26%
20.0	76.879	10.724	17.609	0.40%	0.66%
25.0	101.355	18.693	36.302	0.70%	1.36%
30.0	125.109	28.659	64.961	1.07%	2.43%
35.0	148.067	40.227	105.188	1.51%	3.94%
40.0	169.051	52.909	158.097	1.98%	5.92%
45.0	190.035	66.488	224.585	2.49%	8.41%
50.0	208.705	80.571	305.156	3.02%	11.43%
55.0	225.515	94.414	399.57	3.54%	14.96%
60.0	239.935	107.587	507.157	4.03%	18.99%
65.0	252.912	119.812	626.969	4.49%	23.47%
70.0	263.310	130.711	757.68	4.89%	28.37%
75.0	271.696	139.842	897.521	5.24%	33.61%
80.0	277.236	146.879	1044.4	5.50%	39.10%
85.0	280.841	151.643	1196.043	5.68%	44.78%
90.0	281.524	153.980	1350.023	5.77%	50.55%
95.0	279.968	153.741	1503.764	5.76%	56.30%
100.0	276.022	151.076	1654.839	5.66%	61.96%
105.0	269.153	145.874	1800.713	5.46%	67.42%
110.0	260.198	138.364	1939.077	5.18%	72.60%
115.0	248.928	128.914	2067.991	4.83%	77.43%
120.0	235.798	117.838	2185.828	4.41%	81.84%
125.0	219.861	105.324	2291.153	3.94%	85.79%
130.0	202.444	91.823	2382.976	3.44%	89.22%
135.0	183.205	77.926	2460.902	2.92%	92.14%
140.0	163.131	64.127	2525.029	2.40%	94.54%
145.0	139.870	50.553	2575.582	1.89%	96.44%
150.0	116.305	37.724	2613.306	1.41%	97.85%
155.0	92.134	26.378	2639.684	0.99%	98.84%
160.0	68.190	16.815	2656.499	0.63%	99.46%
165.0	43.752	9.226	2665.725	0.35%	99.81%
170.0	22.578	3.935	2669.659	0.15%	99.96%
175.0	6.641	1.045	2670.704	0.04%	100.00%
180.0	0.949	0.091	2670.795	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	64.96	2.43%	2.43%
0-40	158.10	5.92%	5.92%
0-60	507.16	18.99%	18.99%
0-90	1350.02	50.55%	50.55%
0-120	2185.83	81.84%	81.84%
0-180	2670.80	100.00%	100.00%
60-90	842.87	31.56%	31.56%
90-120	835.81	31.29%	31.29%
90-130	1032.95	38.68%	38.68%
90-150	1263.28	47.30%	47.30%
90-180	1320.68	49.45%	49.45%
0-117.91	2136.64	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	1.88
10-20	15.73
20-30	47.35
30-40	93.14
40-50	147.06
50-60	202.00
60-70	250.52
70-80	286.72
80-90	305.62
90-100	304.82
100-110	284.24
110-120	246.75
120-130	197.15
130-140	142.05
140-150	88.28
150-160	43.19
160-170	13.16
170-180	1.05



C75(Max): —————

C0/C180: —————

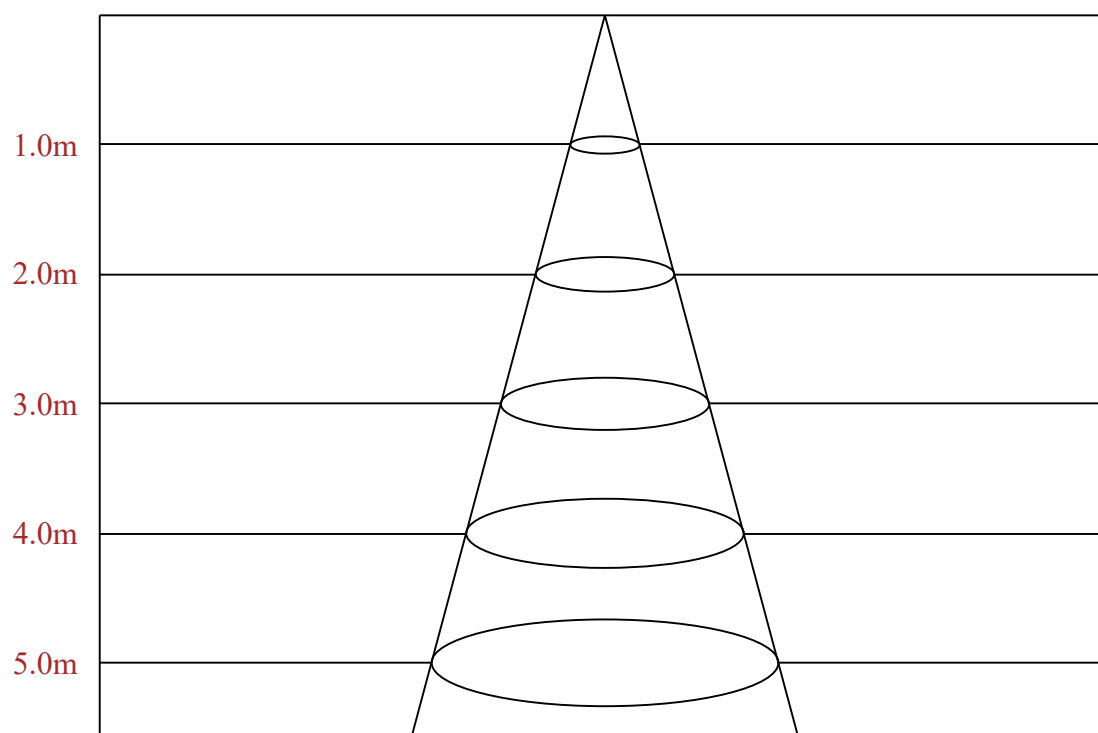
C90/C270: —————

Field angle(10%Imax):C0/180Left:81.1 Right:253.9

:C90/270Left:262.3 Right:76.3

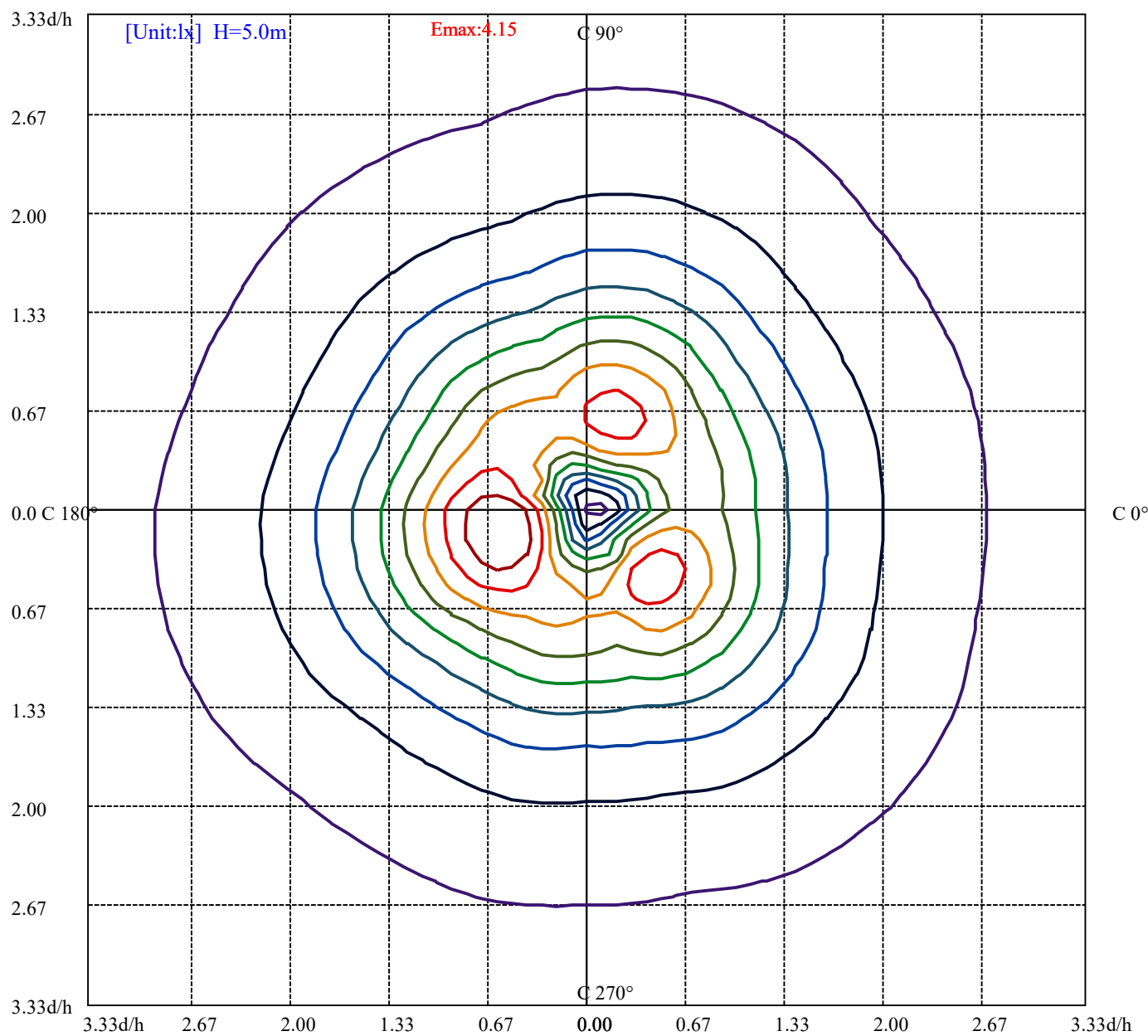
Beam Angle(50%Imax):C0/180Left:57.2 Right:226.0

:C90/270Left:230.9 Right:52.9

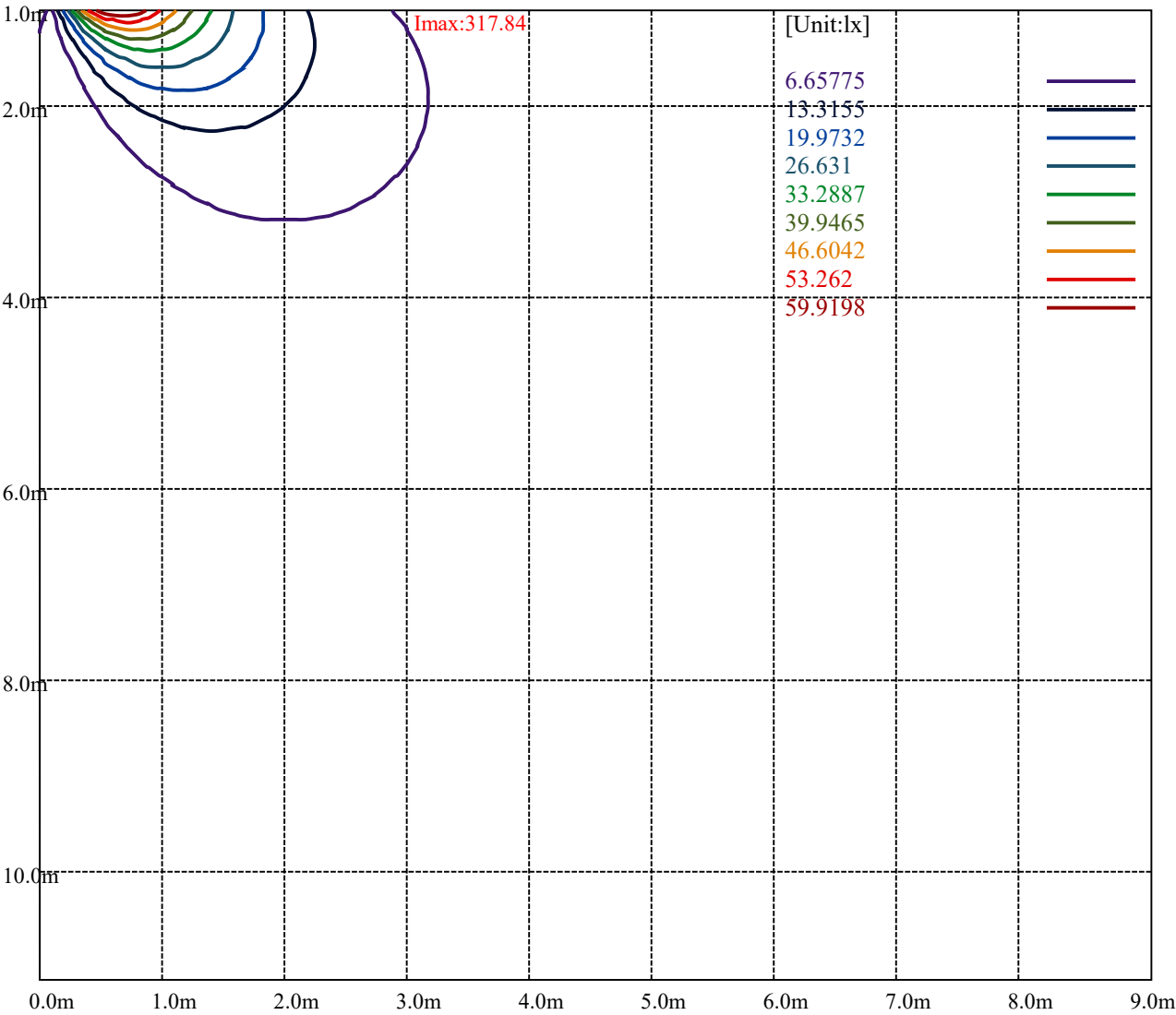


Max , Ave

Beam angle of C75 plane 350.25



(10%Emax) 0.414912	—
(20%Emax) 0.82982	—
(30%Emax) 1.244732	—
(40%Emax) 1.659644	—
(50%Emax) 2.074556	—
(60%Emax) 2.489464	—
(70%Emax) 2.904376	—
(80%Emax) 3.319288	—
(90%Emax) 3.734196	—



Luminance Table

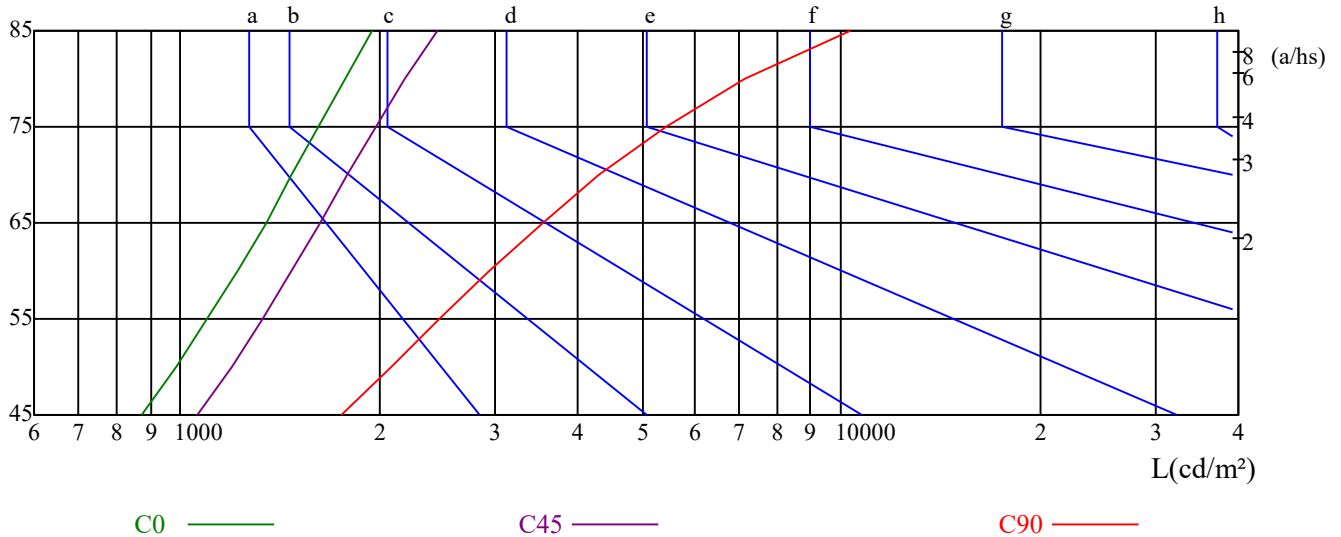
γ	45	50	55	60	65	70	75	80	85
C0	874	987	1100	1222	1345	1473	1614	1773	1952
C45	1062	1198	1334	1477	1626	1785	1973	2192	2456
C90	1751	2080	2466	2935	3531	4312	5445	7159	10330

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4263	4112	4210	7466	7244	7355	22903	22245	22556

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

 $\gamma(^{\circ})$ 

RHOCC	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	1.07	1.07	1.07	0.99	0.99	0.99	0.84	0.84	0.84	0.70	0.70	0.70	0.57	0.57	0.57	0.51
1	0.85	0.79	0.73	0.78	0.73	0.68	0.64	0.60	0.56	0.52	0.49	0.46	0.41	0.38	0.36	0.30
2	0.71	0.63	0.55	0.65	0.57	0.51	0.53	0.47	0.42	0.42	0.38	0.34	0.32	0.29	0.26	0.21
3	0.61	0.51	0.43	0.55	0.47	0.40	0.45	0.38	0.33	0.36	0.30	0.26	0.27	0.23	0.20	0.15
4	0.52	0.43	0.35	0.48	0.39	0.32	0.39	0.32	0.26	0.31	0.25	0.21	0.23	0.19	0.15	0.11
5	0.46	0.36	0.29	0.42	0.33	0.26	0.34	0.27	0.22	0.27	0.21	0.17	0.20	0.16	0.12	0.09
6	0.41	0.31	0.24	0.37	0.28	0.22	0.30	0.23	0.18	0.24	0.18	0.14	0.18	0.13	0.10	0.07
7	0.36	0.27	0.21	0.33	0.25	0.19	0.27	0.20	0.15	0.21	0.16	0.12	0.16	0.12	0.08	0.06
8	0.32	0.24	0.18	0.30	0.22	0.16	0.24	0.18	0.13	0.19	0.14	0.10	0.14	0.10	0.07	0.05
9	0.29	0.21	0.15	0.27	0.19	0.14	0.22	0.16	0.11	0.17	0.12	0.09	0.13	0.09	0.06	0.04
10	0.27	0.19	0.13	0.24	0.17	0.12	0.20	0.14	0.10	0.16	0.11	0.08	0.12	0.08	0.05	0.03

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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	10.02	3.64	13.66	31.87	52.82	75.59	99.27	121.12	143.89		
15.0	9.11	4.55	14.57	30.96	53.73	76.50	100.18	123.86	146.62		
30.0	9.11	6.37	17.30	35.52	56.46	79.23	102.91	128.41	149.36		
45.0	9.11	7.29	23.68	44.62	67.39	91.98	115.66	138.43	161.20		
60.0	8.20	9.11	26.41	51.00	77.41	104.73	130.23	155.73	178.50		
75.0	8.20	10.02	28.23	53.73	81.05	106.55	133.87	159.37	183.96		
90.0	7.29	10.93	26.41	50.09	75.59	102.00	128.41	152.09	176.68		
105.0	6.37	11.84	27.32	47.36	70.12	92.89	114.75	136.61	156.64		
120.0	6.37	13.66	27.32	47.36	69.21	92.89	116.57	140.25	161.20		
135.0	11.84	14.57	30.05	51.00	72.86	98.36	121.12	144.80	167.57		
150.0	5.46	16.39	34.61	54.64	93.80	100.18	122.95	145.71	166.66		
165.0	5.46	19.12	39.16	63.75	87.43	111.11	134.79	157.55	179.41		
180.0	10.02	28.23	53.73	79.23	106.55	132.05	157.55	181.23	202.18		
195.0	9.11	29.14	53.73	81.96	109.29	134.79	162.11	183.96	206.73		
210.0	9.11	28.23	51.00	78.32	104.73	130.23	154.82	177.59	198.54		
225.0	9.11	24.59	45.54	69.21	91.07	115.66	135.70	156.64	175.77		
240.0	8.20	20.04	36.43	55.55	76.50	98.36	119.30	140.25	159.37		
255.0	8.20	15.48	30.96	50.09	71.95	94.71	116.57	138.43	159.37		
270.0	7.29	12.75	27.32	46.45	67.39	89.25	111.11	132.96	152.09		
285.0	6.37	10.93	26.41	46.45	69.21	91.07	112.93	133.87	138.43		
300.0	6.37	10.93	29.14	53.73	59.20	106.55	130.23	153.00	175.77		
315.0	11.84	10.02	30.96	56.46	83.79	110.20	134.79	161.20	183.05		
330.0	5.46	10.02	29.14	52.82	79.23	105.64	131.14	154.82	177.59		
345.0	5.46	8.20	24.59	45.54	68.30	91.98	115.66	135.70	156.64		
360.0	10.02	3.64	13.66	31.87	52.82	75.59	99.27	121.12	143.89		
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	163.93	183.05	200.36	216.75	230.41	241.34	250.45	257.73	262.28		
15.0	168.48	187.61	205.82	221.30	234.05	244.98	254.09	261.37	265.93		
30.0	170.30	189.43	206.73	221.30	232.23	243.16	251.36	258.64	262.28		
45.0	181.23	200.36	216.75	231.32	243.16	252.27	260.46	266.84	271.39		
60.0	201.27	222.21	241.34	258.64	273.21	285.05	295.07	300.53	305.09		
75.0	206.73	227.68	246.80	263.20	279.59	292.34	303.27	310.55	316.02		
90.0	197.62	217.66	235.87	252.27	266.84	278.68	289.61	295.98	301.45		
105.0	175.77	193.98	209.46	223.12	235.87	245.89	255.00	260.46	265.02		
120.0	181.23	201.27	218.57	233.14	244.98	255.91	264.11	269.57	273.21		
135.0	188.52	208.55	224.95	241.34	254.09	264.11	272.30	277.77	281.41		
150.0	185.79	204.00	220.39	234.96	246.80	256.82	265.02	269.57	273.21		
165.0	196.71	213.11	229.50	243.16	254.09	264.11	271.39	275.95	278.68		
180.0	223.12	241.34	257.73	272.30	284.14	294.16	301.45	306.00	307.82		
195.0	227.68	246.80	264.11	278.68	291.43	301.45	308.73	314.20	316.02		
210.0	217.66	236.79	252.27	266.84	278.68	288.70	295.98	300.53	302.36		
225.0	193.07	208.55	223.12	235.87	245.89	254.09	260.46	264.11	265.02		
240.0	179.41	195.80	212.20	224.95	236.79	245.89	253.18	257.73	259.55		
255.0	179.41	196.71	213.11	227.68	239.52	249.54	256.82	258.64	264.11		
270.0	172.12	188.52	204.91	207.64	229.50	238.61	245.89	250.45	252.27		
285.0	172.12	190.34	204.91	218.57	230.41	240.43	248.62	254.09	257.73		
300.0	196.71	215.84	233.14	249.54	261.37	273.21	281.41	287.78	292.34		
315.0	205.82	225.86	243.16	259.55	273.21	285.05	294.16	301.45	305.09		
330.0	199.45	218.57	236.79	251.36	265.93	275.95	285.96	292.34	295.98		
345.0	176.68	194.89	210.37	224.95	237.70	247.71	255.91	261.37	265.93		
360.0	163.93	183.05	200.36	216.75	230.41	241.34	250.45	257.73	262.28		

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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	265.02	265.02	262.28	256.82	249.54	239.52	227.68	213.11	195.80
15.0	268.66	268.66	265.93	261.37	252.27	242.25	229.50	214.93	197.62
30.0	264.11	263.20	260.46	255.00	245.89	235.87	222.21	208.55	193.07
45.0	273.21	273.21	271.39	265.93	258.64	248.62	237.70	224.04	207.64
60.0	306.00	306.00	303.27	297.80	289.61	279.59	265.93	251.36	234.05
75.0	317.84	316.93	314.20	307.82	298.71	286.87	275.03	259.55	241.34
90.0	303.27	303.27	300.53	294.16	286.87	275.95	262.28	246.80	230.41
105.0	266.84	266.84	264.11	258.64	251.36	243.16	230.41	218.57	203.09
120.0	274.12	272.30	267.75	260.46	251.36	239.52	225.86	209.46	193.07
135.0	281.41	278.68	274.12	266.84	256.82	244.07	230.41	213.11	193.98
150.0	273.21	271.39	265.93	258.64	249.54	238.61	224.04	207.64	188.52
165.0	278.68	275.95	270.48	264.11	254.09	243.16	228.59	213.11	195.80
180.0	306.91	303.27	296.89	288.70	276.86	263.20	247.71	229.50	210.37
195.0	315.11	311.46	305.09	295.98	285.05	270.48	255.00	235.87	215.84
210.0	301.45	297.80	292.34	283.23	272.30	258.64	243.16	225.86	206.73
225.0	264.11	261.37	255.91	247.71	237.70	226.77	224.04	196.71	179.41
240.0	259.55	257.73	255.91	244.98	235.87	223.12	209.46	193.98	175.77
255.0	264.11	261.37	256.82	248.62	239.52	226.77	213.11	194.89	177.59
270.0	252.27	249.54	244.98	237.70	228.59	217.66	204.00	189.43	173.04
285.0	258.64	257.73	254.09	248.62	241.34	232.23	219.48	206.73	191.25
300.0	292.34	291.43	287.78	281.41	273.21	262.28	248.62	234.05	215.84
315.0	306.00	304.18	300.53	293.25	285.05	272.30	259.55	243.16	224.95
330.0	296.89	295.98	291.43	285.05	275.95	265.02	250.45	234.96	218.57
345.0	266.84	265.93	262.28	256.82	248.62	238.61	224.95	211.29	194.89
360.0	265.02	265.02	262.28	256.82	249.54	239.52	227.68	213.11	195.80
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	177.59	158.46	135.70	113.84	90.16	67.39	45.54	26.41	11.84
15.0	179.41	157.55	135.70	111.11	87.43	61.93	39.16	20.95	8.20
30.0	175.77	154.82	131.14	109.29	86.52	63.75	39.16	19.12	5.46
45.0	189.43	170.30	147.54	122.95	96.54	69.21	46.45	22.77	5.46
60.0	215.84	194.89	171.21	145.71	120.21	90.16	59.20	29.14	9.11
75.0	222.21	199.45	175.77	151.18	123.86	94.71	66.48	36.43	10.02
90.0	210.37	188.52	166.66	141.16	117.48	91.07	63.75	37.34	10.02
105.0	185.79	167.57	147.54	125.68	102.91	79.23	57.37	33.70	9.11
120.0	173.04	152.09	130.23	109.29	84.70	63.75	42.80	25.50	6.37
135.0	173.95	153.00	128.41	104.73	80.14	56.46	34.61	18.21	4.55
150.0	170.30	148.45	125.68	102.00	79.23	53.73	32.79	15.48	4.55
165.0	176.68	155.73	134.79	111.11	87.43	61.02	37.34	18.21	4.55
180.0	188.52	164.84	140.25	113.84	88.34	61.93	35.52	13.66	2.73
195.0	193.07	171.21	143.89	118.39	91.07	84.70	37.34	14.57	2.73
210.0	184.87	179.41	137.52	112.02	85.61	58.29	34.61	12.75	2.73
225.0	161.20	140.25	118.39	96.54	72.86	50.09	28.23	10.93	2.73
240.0	155.73	135.70	112.93	90.16	67.39	45.54	27.32	11.84	4.55
255.0	157.55	136.61	113.84	92.89	70.12	48.27	30.05	15.48	5.46
270.0	154.82	136.61	116.57	95.62	74.68	56.46	37.34	21.86	7.29
285.0	173.95	156.64	137.52	114.75	93.80	70.12	47.36	25.50	8.20
300.0	197.62	176.68	154.82	130.23	106.55	79.23	54.64	30.05	9.11
315.0	204.91	183.05	160.29	135.70	109.29	82.87	55.55	29.14	9.11
330.0	197.62	176.68	153.91	129.32	103.82	79.23	52.82	28.23	8.20
345.0	176.68	156.64	136.61	113.84	91.07	67.39	44.62	24.59	7.29
360.0	177.59	158.46	135.70	113.84	90.16	67.39	45.54	26.41	11.84

Intensity data(cd)

C/ $\gamma(^{\circ})$	180.0
0.0	2.73
15.0	1.82
30.0	1.82
45.0	1.82
60.0	1.82
75.0	1.82
90.0	1.82
105.0	1.82
120.0	1.82
135.0	1.82
150.0	1.82
165.0	1.82
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	2.73