
弗格斯莱

Client:

LumCAT: KNOP36LAJUDBK

Luminaire: LED LAMP

Report No:

Ballast type:

Test No:

Voltage(V): 119.990

LampCAT:

Current(A): 0.460

Lamp flux(lm): 2563.8

Power (W): 54.660

Number of Lamps: 1

PF: 0.991

Length(mm): 1020

Width(mm): 140

Phm Type: C

Height(mm): 120

Photometric Results

Lumens(lm): 2563.80, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 46.90

Central intensity(cd): 9.107, Maximum intensity(cd): 305.088

Angle of maximum intensity: C=75.0 γ =90.0

Beam Angle(50%Imax): [C0/180]Total=283.1

[C90/270]Total=283.7

Field angle(10%Imax): [C0/180]Total=334.9

[C90/270]Total=338.6

Maximum s/h(1/2): C0_180=7.83 C90_270=8.50

Maximum s/h(1/4): C0_180=7.24 C90_270=7.63

Up flux rate of lamp(%): 49.44%

Down flux rate of lamp(%): 50.56%

Up flux rate of LUM(%): 49.44%

Down flux rate of LUM(%): 50.56%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 18.996%

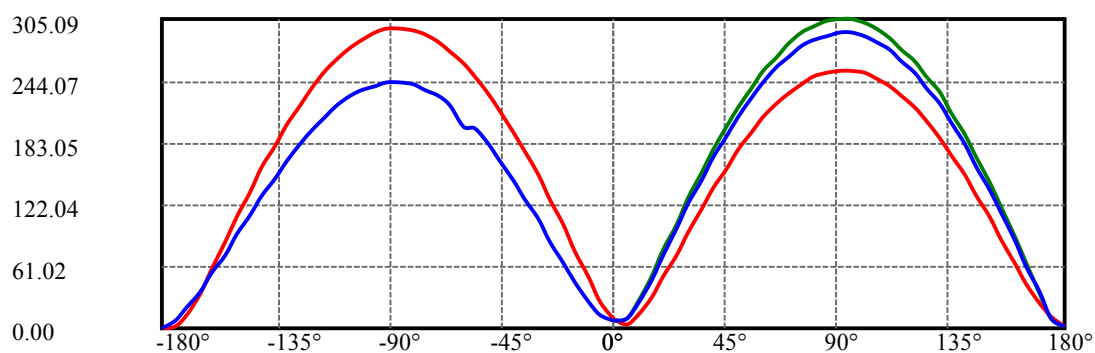
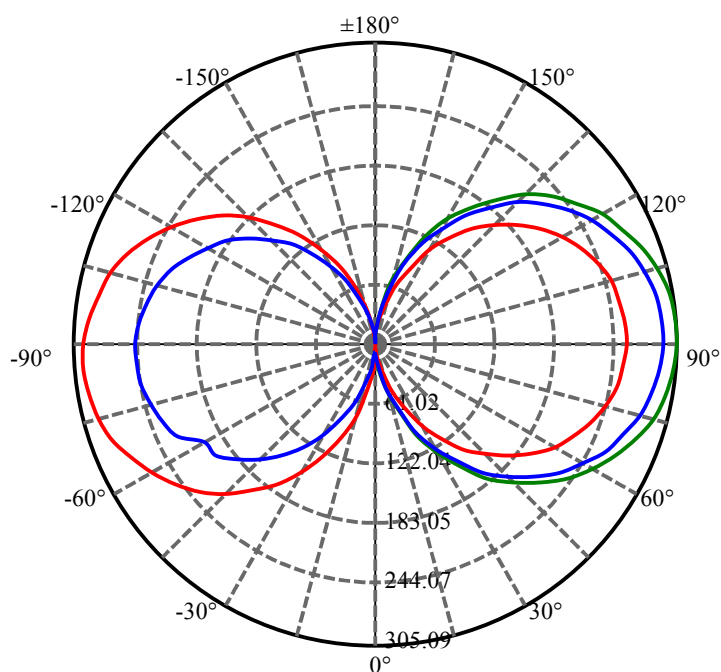
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7.513	0.000	0	0.00%	0.00%
5.0	13.395	0.250	0.25	0.01%	0.01%
10.0	30.053	1.554	1.804	0.06%	0.07%
15.0	51.114	4.815	6.619	0.19%	0.26%
20.0	73.768	10.292	16.911	0.40%	0.66%
25.0	97.370	17.949	34.86	0.70%	1.36%
30.0	120.138	27.526	62.386	1.07%	2.43%
35.0	142.185	38.629	101.015	1.51%	3.94%
40.0	162.448	50.826	151.841	1.98%	5.92%
45.0	182.484	63.867	215.708	2.49%	8.41%
50.0	200.357	77.359	293.066	3.02%	11.43%
55.0	216.560	90.651	383.718	3.54%	14.97%
60.0	230.296	103.289	487.007	4.03%	19.00%
65.0	242.819	115.015	602.022	4.49%	23.48%
70.0	252.874	125.513	727.535	4.90%	28.38%
75.0	260.767	134.258	861.792	5.24%	33.61%
80.0	266.118	140.980	1002.772	5.50%	39.11%
85.0	269.533	145.549	1148.321	5.68%	44.79%
90.0	270.330	147.819	1296.14	5.77%	50.56%
95.0	268.698	147.590	1443.73	5.76%	56.31%
100.0	264.941	145.003	1588.732	5.66%	61.97%
105.0	258.339	140.015	1728.747	5.46%	67.43%
110.0	249.763	132.809	1861.557	5.18%	72.61%
115.0	238.796	123.706	1985.263	4.83%	77.43%
120.0	226.388	113.087	2098.35	4.41%	81.85%
125.0	211.019	101.105	2199.455	3.94%	85.79%
130.0	194.285	88.127	2287.582	3.44%	89.23%
135.0	175.843	74.790	2362.372	2.92%	92.14%
140.0	156.529	61.541	2423.913	2.40%	94.54%
145.0	134.292	48.521	2472.435	1.89%	96.44%
150.0	111.638	36.215	2508.649	1.41%	97.85%
155.0	88.339	25.307	2533.957	0.99%	98.84%
160.0	65.419	16.126	2550.083	0.63%	99.47%
165.0	42.007	8.853	2558.937	0.35%	99.81%
170.0	21.591	3.773	2562.709	0.15%	99.96%
175.0	6.413	1.002	2563.711	0.04%	100.00%
180.0	0.911	0.088	2563.799	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	62.39	2.43%	2.43%
0-40	151.84	5.92%	5.92%
0-60	487.01	19.00%	19.00%
0-90	1296.14	50.56%	50.56%
0-120	2098.35	81.85%	81.85%
0-180	2563.80	100.00%	100.00%
60-90	809.13	31.56%	31.56%
90-120	802.21	31.29%	31.29%
90-130	991.44	38.67%	38.67%
90-150	1212.51	47.29%	47.29%
90-180	1267.57	49.44%	49.44%
0-117.91	2051.04	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	1.80
10-20	15.11
20-30	45.48
30-40	89.45
40-50	141.23
50-60	193.94
60-70	240.53
70-80	275.24
80-90	293.37
90-100	292.59
100-110	272.82
110-120	236.79
120-130	189.23
130-140	136.33
140-150	84.74
150-160	41.43
160-170	12.63
170-180	1.00



C75(Max): —————

C0/C180: —————

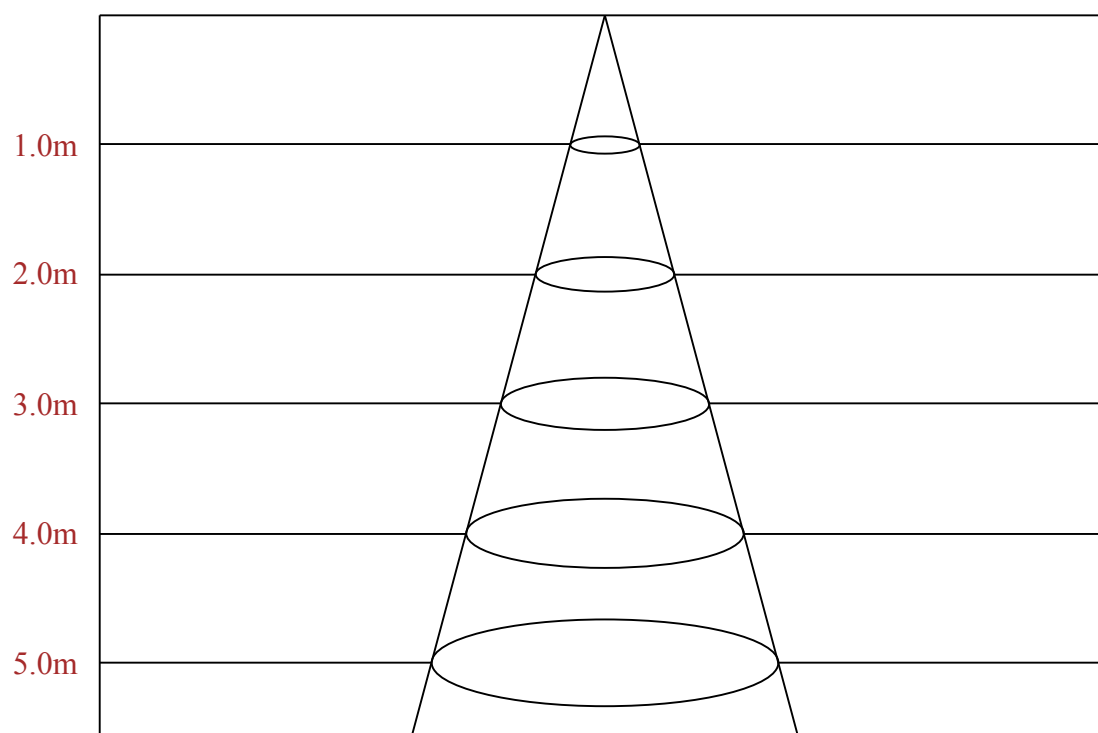
C90/C270: —————

Field angle(10%Imax):C0/180Left:81.0 Right:253.9

:C90/270Left:262.4 Right:76.3

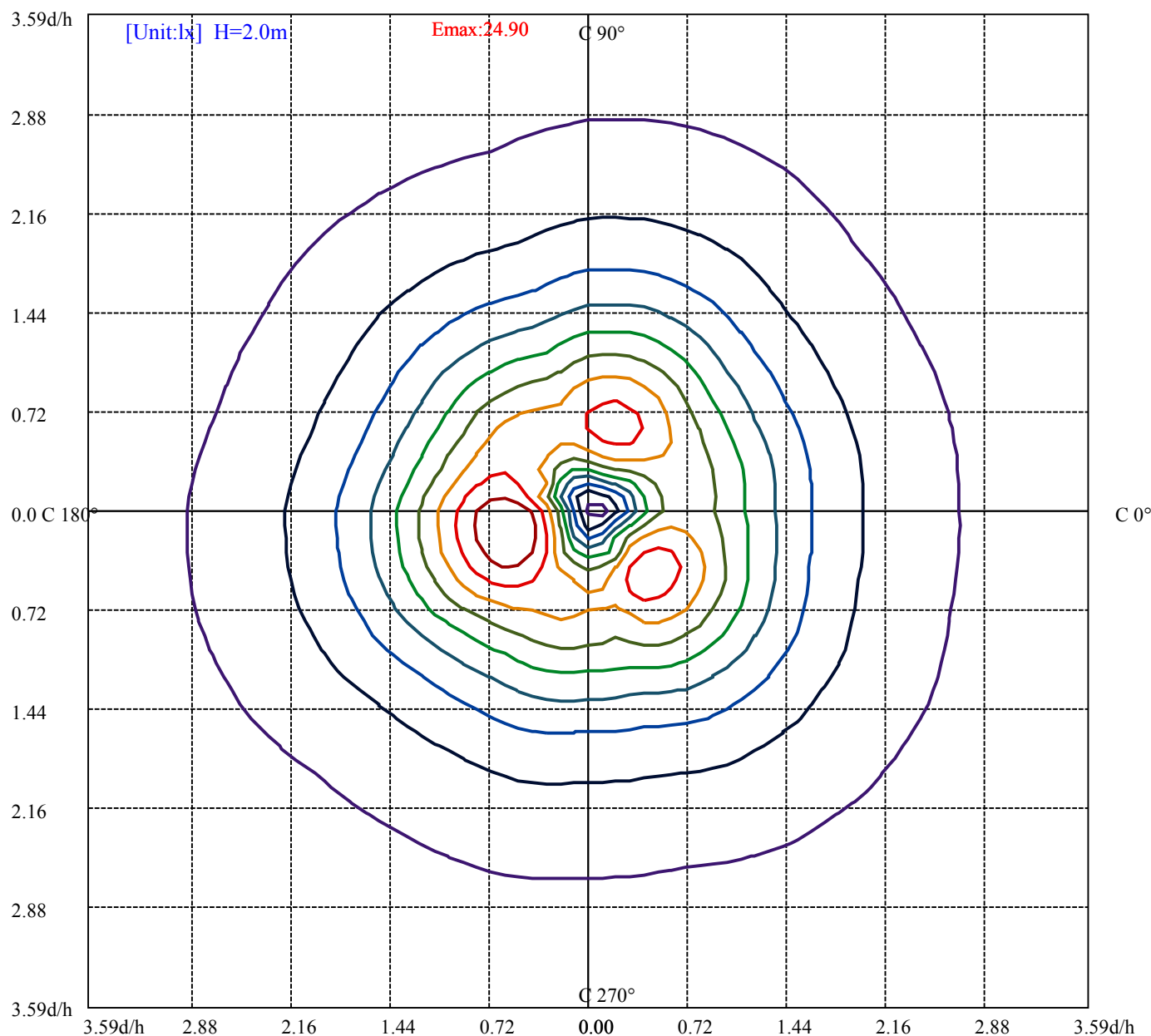
Beam Angle(50%Imax):C0/180Left:57.2 Right:225.9

:C90/270Left:230.8 Right:52.9

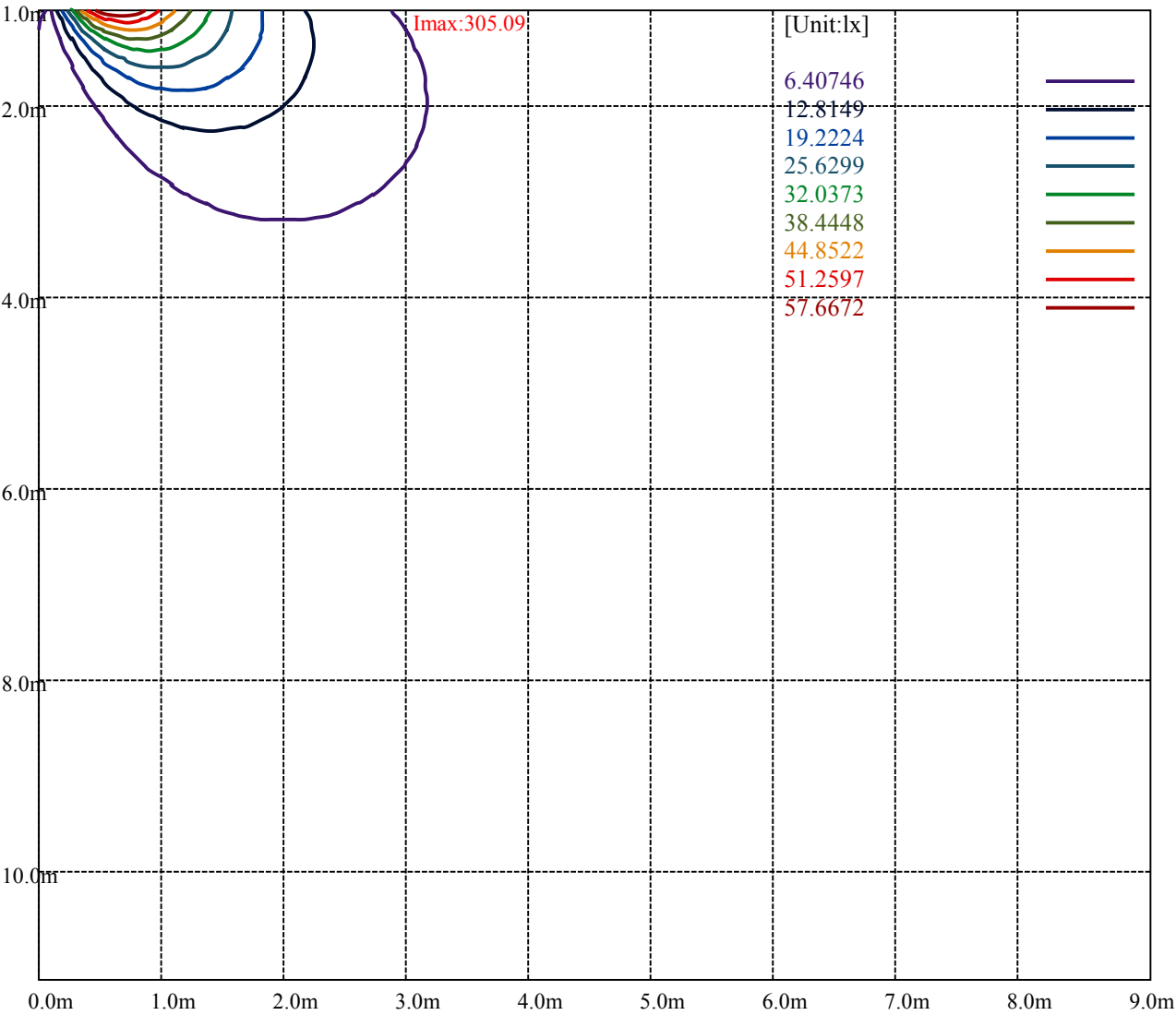


Max , Ave

Beam angle of C75 plane 350.14



(10%Emax) 2.490083	—
(20%Emax) 4.980175	—
(30%Emax) 7.47025	—
(40%Emax) 9.960325	—
(50%Emax) 12.4504	—
(60%Emax) 14.9405	—
(70%Emax) 17.43057	—
(80%Emax) 19.92065	—
(90%Emax) 22.41072	—



Luminance Table

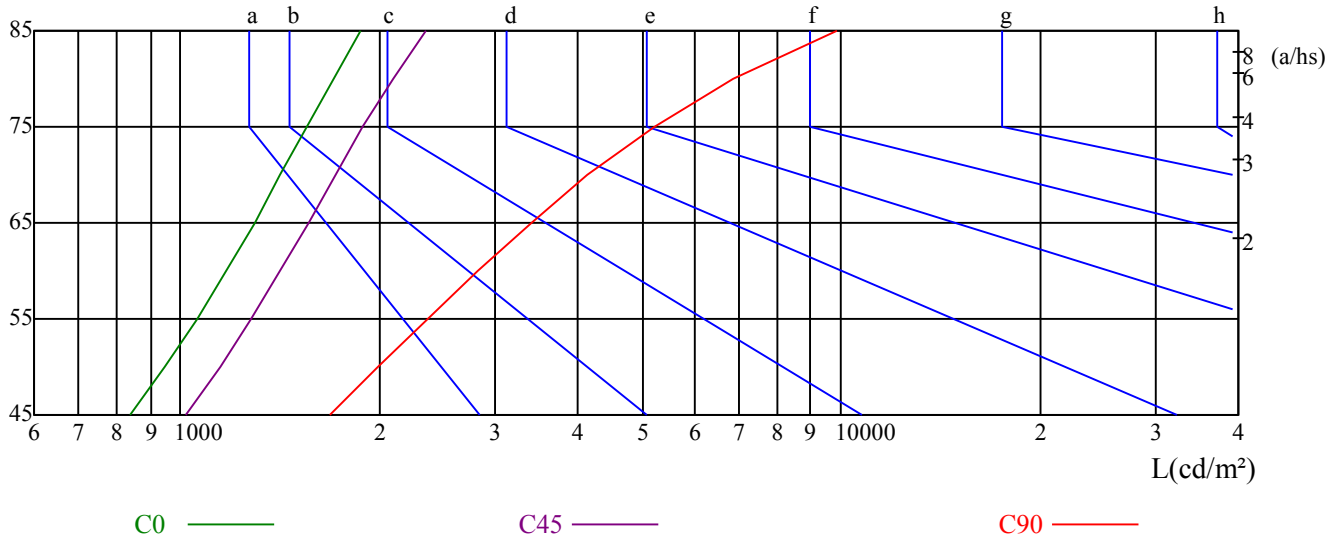
γ	45	50	55	60	65	70	75	80	85
C0	840	947	1060	1176	1292	1412	1549	1704	1870
C45	1020	1149	1283	1419	1559	1714	1890	2102	2357
C90	1679	1993	2370	2819	3398	4143	5222	6873	9893

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4097	3954	4037	7170	6949	7053	21989	21330	21641

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

弗格斯莱 KNOP36LAJUDBK

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	9.11	3.64	13.66	30.05	51.00	72.86	95.62	116.57	138.43		
15.0	9.11	4.55	14.57	30.05	51.91	73.77	96.54	119.30	141.16		
30.0	8.20	6.37	17.30	33.70	54.64	76.50	98.36	122.95	143.89		
45.0	8.20	7.29	22.77	42.80	64.66	88.34	111.11	132.96	153.91		
60.0	8.20	8.20	25.50	49.18	74.68	100.18	124.77	149.36	171.21		
75.0	7.29	9.11	27.32	51.91	77.41	102.91	128.41	153.00	176.68		
90.0	7.29	10.02	25.50	48.27	72.86	98.36	122.95	145.71	169.39		
105.0	6.37	11.84	26.41	45.54	67.39	89.25	110.20	131.14	151.18		
120.0	6.37	12.75	26.41	45.54	66.48	89.25	112.02	134.79	154.82		
135.0	10.93	13.66	29.14	49.18	70.12	93.80	115.66	139.34	161.20		
150.0	4.55	15.48	32.79	52.82	90.16	95.62	118.39	139.34	160.29		
165.0	4.55	18.21	37.34	61.02	83.79	106.55	129.32	151.18	172.12		
180.0	9.11	26.41	51.91	76.50	102.00	127.50	151.18	173.95	193.98		
195.0	9.11	27.32	51.91	78.32	104.73	129.32	155.73	176.68	198.54		
210.0	8.20	27.32	49.18	74.68	100.18	124.77	148.45	170.30	191.25		
225.0	8.20	23.68	43.71	66.48	87.43	111.11	130.23	150.27	168.48		
240.0	8.20	19.12	34.61	53.73	73.77	94.71	114.75	134.79	153.00		
255.0	7.29	15.48	30.05	48.27	68.30	91.07	112.02	132.96	153.00		
270.0	7.29	12.75	26.41	44.62	64.66	85.61	107.46	127.50	146.62		
285.0	6.37	10.93	25.50	44.62	66.48	87.43	108.37	128.41	132.96		
300.0	6.37	10.02	28.23	51.00	56.46	102.00	124.77	147.54	169.39		
315.0	10.93	10.02	29.14	53.73	80.14	106.55	130.23	154.82	175.77		
330.0	4.55	10.02	28.23	51.00	75.59	101.09	125.68	149.36	171.21		
345.0	4.55	7.29	23.68	43.71	65.57	88.34	111.11	130.23	150.27		
360.0	9.11	3.64	13.66	30.05	51.00	72.86	95.62	116.57	138.43		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	157.55	175.77	193.07	208.55	221.30	231.32	240.43	247.71	251.36		
15.0	162.11	180.32	197.62	212.20	224.95	234.96	244.07	250.45	255.91		
30.0	163.93	182.14	198.54	212.20	223.12	233.14	241.34	247.71	252.27		
45.0	173.95	192.16	208.55	222.21	233.14	242.25	249.54	255.91	260.46		
60.0	193.07	213.11	232.23	247.71	262.28	274.12	283.23	288.70	292.34		
75.0	198.54	218.57	236.79	253.18	267.75	280.50	291.43	297.80	303.27		
90.0	189.43	208.55	226.77	242.25	256.82	267.75	277.77	284.14	288.70		
105.0	168.48	185.79	201.27	214.02	226.77	236.79	244.07	250.45	254.09		
120.0	173.95	193.07	209.46	224.04	235.87	245.89	253.18	259.55	262.28		
135.0	181.23	200.36	215.84	231.32	243.16	254.09	261.37	266.84	269.57		
150.0	178.50	195.80	211.29	224.95	236.79	246.80	254.09	258.64	262.28		
165.0	188.52	204.91	220.39	233.14	244.07	253.18	260.46	265.02	266.84		
180.0	214.02	231.32	247.71	261.37	273.21	282.32	289.61	294.16	295.98		
195.0	218.57	236.79	253.18	267.75	279.59	289.61	296.89	301.45	303.27		
210.0	209.46	227.68	242.25	255.91	267.75	276.86	284.14	288.70	289.61		
225.0	185.79	200.36	214.93	226.77	235.87	244.07	249.54	253.18	255.00		
240.0	172.12	187.61	203.09	215.84	226.77	235.87	243.16	246.80	249.54		
255.0	172.12	189.43	204.91	218.57	230.41	239.52	246.80	247.71	254.09		
270.0	165.75	181.23	196.71	199.45	220.39	228.59	235.87	240.43	242.25		
285.0	165.75	183.05	196.71	209.46	221.30	231.32	238.61	244.07	247.71		
300.0	188.52	207.64	223.12	239.52	251.36	262.28	270.48	276.86	280.50		
315.0	197.62	216.75	234.05	249.54	262.28	274.12	282.32	288.70	292.34		
330.0	191.25	209.46	226.77	241.34	255.00	265.02	274.12	280.50	284.14		
345.0	169.39	186.70	202.18	215.84	227.68	238.61	245.89	251.36	255.00		
360.0	157.55	175.77	193.07	208.55	221.30	231.32	240.43	247.71	251.36		

弗格斯莱 KNOP36LAJUDBK

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	254.09	254.09	251.36	246.80	239.52	229.50	218.57	204.00	187.61		
15.0	257.73	257.73	255.00	250.45	242.25	233.14	220.39	206.73	189.43		
30.0	254.09	253.18	249.54	244.07	236.79	225.86	214.02	200.36	185.79		
45.0	262.28	262.28	260.46	255.00	248.62	238.61	227.68	214.93	199.45		
60.0	294.16	293.25	290.52	285.96	277.77	267.75	255.91	241.34	224.95		
75.0	305.09	304.18	301.45	295.07	286.87	275.03	264.11	248.62	232.23		
90.0	291.43	291.43	288.70	282.32	275.03	264.11	252.27	237.70	221.30		
105.0	255.91	255.91	253.18	248.62	241.34	233.14	221.30	209.46	194.89		
120.0	263.20	261.37	256.82	250.45	241.34	230.41	216.75	201.27	184.87		
135.0	270.48	267.75	263.20	255.91	245.89	234.05	221.30	204.91	186.70		
150.0	262.28	260.46	255.91	248.62	239.52	228.59	214.93	198.54	181.23		
165.0	266.84	264.11	260.46	253.18	244.07	233.14	219.48	204.91	188.52		
180.0	295.07	291.43	285.05	276.86	265.93	253.18	237.70	219.48	201.27		
195.0	302.36	298.71	292.34	284.14	273.21	259.55	244.98	226.77	206.73		
210.0	288.70	285.96	280.50	271.39	261.37	248.62	233.14	216.75	197.62		
225.0	254.09	250.45	245.89	237.70	228.59	217.66	214.93	188.52	172.12		
240.0	249.54	246.80	245.89	234.96	225.86	214.93	201.27	185.79	168.48		
255.0	254.09	251.36	245.89	238.61	229.50	217.66	204.00	187.61	170.30		
270.0	242.25	239.52	234.96	228.59	219.48	208.55	195.80	182.14	165.75		
285.0	248.62	247.71	244.07	238.61	231.32	222.21	210.37	197.62	183.96		
300.0	281.41	279.59	276.86	270.48	262.28	251.36	238.61	224.95	207.64		
315.0	293.25	292.34	288.70	281.41	274.12	261.37	248.62	234.05	215.84		
330.0	285.05	284.14	279.59	274.12	265.02	254.09	240.43	225.86	209.46		
345.0	255.91	255.00	252.27	246.80	238.61	228.59	216.75	202.18	186.70		
360.0	254.09	254.09	251.36	246.80	239.52	229.50	218.57	204.00	187.61		
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0		
0.0	170.30	152.09	130.23	109.29	86.52	64.66	43.71	25.50	10.93		
15.0	172.12	151.18	130.23	107.46	83.79	59.20	37.34	20.04	8.20		
30.0	168.48	148.45	125.68	104.73	82.87	61.02	37.34	18.21	5.46		
45.0	182.14	163.93	142.07	117.48	91.98	66.48	44.62	21.86	5.46		
60.0	207.64	187.61	164.84	140.25	114.75	86.52	56.46	27.32	8.20		
75.0	213.11	191.25	169.39	144.80	119.30	91.07	63.75	34.61	10.02		
90.0	202.18	181.23	159.37	135.70	112.93	87.43	61.02	35.52	10.02		
105.0	178.50	160.29	141.16	121.12	98.36	75.59	54.64	32.79	9.11		
120.0	166.66	145.71	124.77	104.73	81.05	61.02	40.98	24.59	6.37		
135.0	166.66	146.62	122.95	100.18	76.50	53.73	33.70	17.30	4.55		
150.0	163.02	142.07	120.21	97.45	75.59	51.00	31.87	14.57	3.64		
165.0	169.39	149.36	129.32	106.55	83.79	59.20	35.52	17.30	4.55		
180.0	180.32	158.46	134.79	109.29	84.70	59.20	33.70	13.66	2.73		
195.0	185.79	163.93	138.43	113.84	87.43	81.05	35.52	13.66	2.73		
210.0	177.59	172.12	132.05	107.46	81.96	56.46	32.79	11.84	1.82		
225.0	153.91	134.79	113.84	92.89	70.12	48.27	27.32	10.93	2.73		
240.0	149.36	130.23	108.37	86.52	64.66	43.71	26.41	11.84	3.64		
255.0	151.18	131.14	109.29	88.34	67.39	46.45	29.14	14.57	5.46		
270.0	148.45	131.14	112.02	91.98	71.95	54.64	36.43	20.95	7.29		
285.0	167.57	150.27	132.05	110.20	90.16	67.39	45.54	24.59	8.20		
300.0	190.34	169.39	148.45	124.77	102.00	76.50	52.82	28.23	8.20		
315.0	196.71	175.77	153.91	130.23	104.73	79.23	53.73	28.23	9.11		
330.0	189.43	169.39	148.45	124.77	100.18	75.59	51.00	26.41	8.20		
345.0	169.39	150.27	131.14	109.29	87.43	64.66	42.80	23.68	7.29		
360.0	170.30	152.09	130.23	109.29	86.52	64.66	43.71	25.50	10.93		

Intensity data(cd)

C/ $\gamma(^{\circ})$	180.0
0.0	1.82
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	1.82