
乐达凯

Client:

LumCAT: SYDV2107LAJUDLB

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 119.990

LampCAT:

Current(A): 0.165

Lamp flux(lm): 1381.9

Power (W): 19.660

Number of Lamps: 1

PF: 0.991

Length(mm): 520

Width(mm): 110

Phm Type: C

Height(mm): 80

Photometric Results

Lumens(lm): 1381.87, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 70.29

Central intensity(cd): 115.916, Maximum intensity(cd): 145.815

Angle of maximum intensity: C=60.0 γ =55.0

Beam Angle(50%Imax): [C0/180]Total=N.A.

[C90/270]Total=N.A.

Field angle(10%Imax): [C0/180]Total=N.A.

[C90/270]Total=N.A.

Maximum s/h(1/2): C0_180=1.82 C90_270=1.87

Maximum s/h(1/4): C0_180=1.92 C90_270=1.99

Up flux rate of lamp(%): 43.12%

Down flux rate of lamp(%): 56.88%

Up flux rate of LUM(%): 43.12%

Down flux rate of LUM(%): 56.88%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 30.947%

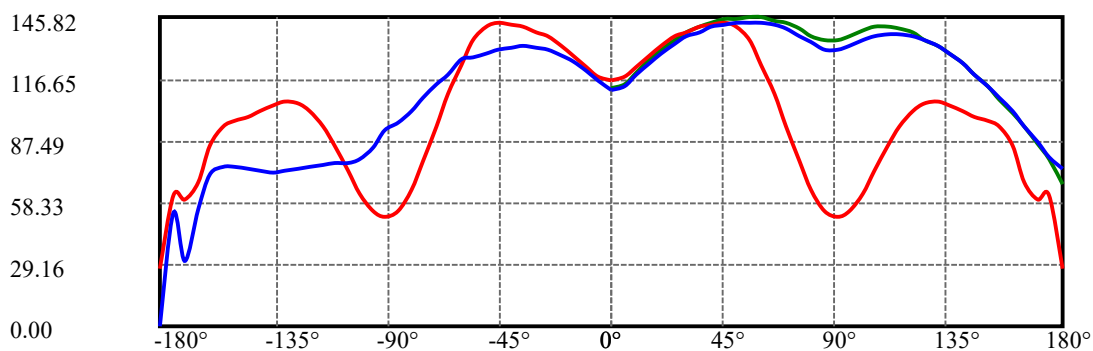
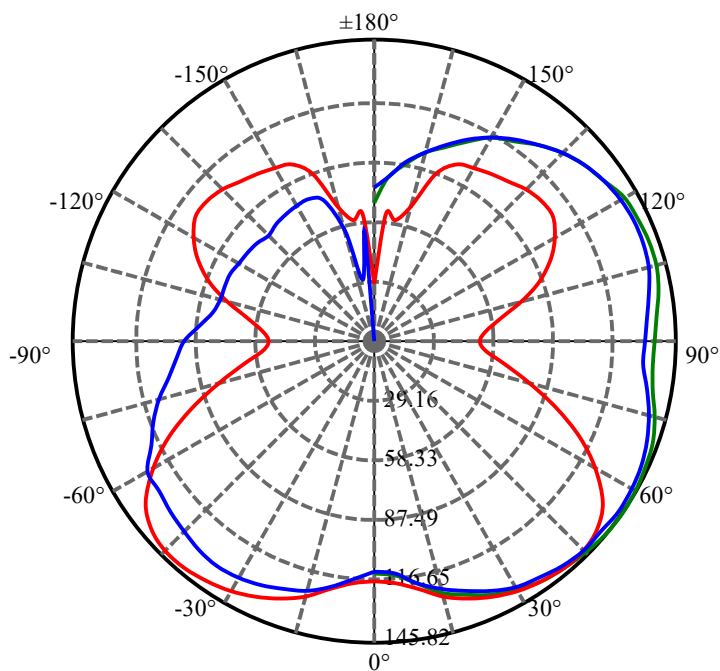
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	113.080	0.000	0	0.00%	0.00%
5.0	115.456	2.732	2.732	0.20%	0.20%
10.0	120.669	8.447	11.179	0.61%	0.81%
15.0	126.112	14.639	25.818	1.06%	1.87%
20.0	130.291	21.131	46.949	1.53%	3.40%
25.0	133.932	27.712	74.661	2.01%	5.40%
30.0	136.769	34.257	108.919	2.48%	7.88%
35.0	138.570	40.546	149.464	2.93%	10.82%
40.0	139.759	46.437	195.901	3.36%	14.18%
45.0	140.065	51.812	247.713	3.75%	17.93%
50.0	139.835	56.558	304.271	4.09%	22.02%
55.0	138.034	60.418	364.689	4.37%	26.39%
60.0	134.354	62.962	427.651	4.56%	30.95%
65.0	128.796	63.972	491.623	4.63%	35.58%
70.0	122.356	63.593	555.216	4.60%	40.18%
75.0	114.690	61.960	617.176	4.48%	44.66%
80.0	106.755	59.252	676.428	4.29%	48.95%
85.0	99.817	56.130	732.559	4.06%	53.01%
90.0	95.524	53.486	786.045	3.87%	56.88%
95.0	93.224	51.680	837.725	3.74%	60.62%
100.0	93.837	50.829	888.554	3.68%	64.30%
105.0	95.485	50.657	939.211	3.67%	67.97%
110.0	97.402	50.418	989.629	3.65%	71.61%
115.0	98.973	49.723	1039.352	3.60%	75.21%
120.0	100.123	48.401	1087.753	3.50%	78.72%
125.0	100.315	46.331	1134.084	3.35%	82.07%
130.0	99.472	43.440	1177.524	3.14%	85.21%
135.0	97.900	39.882	1217.406	2.89%	88.10%
140.0	96.443	35.984	1253.39	2.60%	90.70%
145.0	94.680	31.888	1285.278	2.31%	93.01%
150.0	92.764	27.602	1312.88	2.00%	95.01%
155.0	90.042	23.134	1336.014	1.67%	96.68%
160.0	84.829	18.341	1354.355	1.33%	98.01%
165.0	74.441	13.126	1367.481	0.95%	98.96%
170.0	67.579	8.425	1375.906	0.61%	99.57%
175.0	66.046	4.780	1380.686	0.35%	99.91%
180.0	33.426	1.189	1381.875	0.09%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	108.92	7.88%	7.88%
0-40	195.90	14.18%	14.18%
0-60	427.65	30.95%	30.95%
0-90	786.04	56.88%	56.88%
0-120	1087.75	78.72%	78.72%
0-180	1381.87	100.00%	100.00%
60-90	358.39	25.94%	25.94%
90-120	301.71	21.83%	21.83%
90-130	391.48	28.33%	28.33%
90-150	526.84	38.12%	38.12%
90-180	594.64	43.03%	43.03%
0-121.92	1105.50	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	11.18
10-20	35.77
20-30	61.97
30-40	86.98
40-50	108.37
50-60	123.38
60-70	127.57
70-80	121.21
80-90	109.62
90-100	102.51
100-110	101.07
110-120	98.12
120-130	89.77
130-140	75.87
140-150	59.49
150-160	41.47
160-170	21.55
170-180	4.78



C60(Max): —————

C0/C180: —————

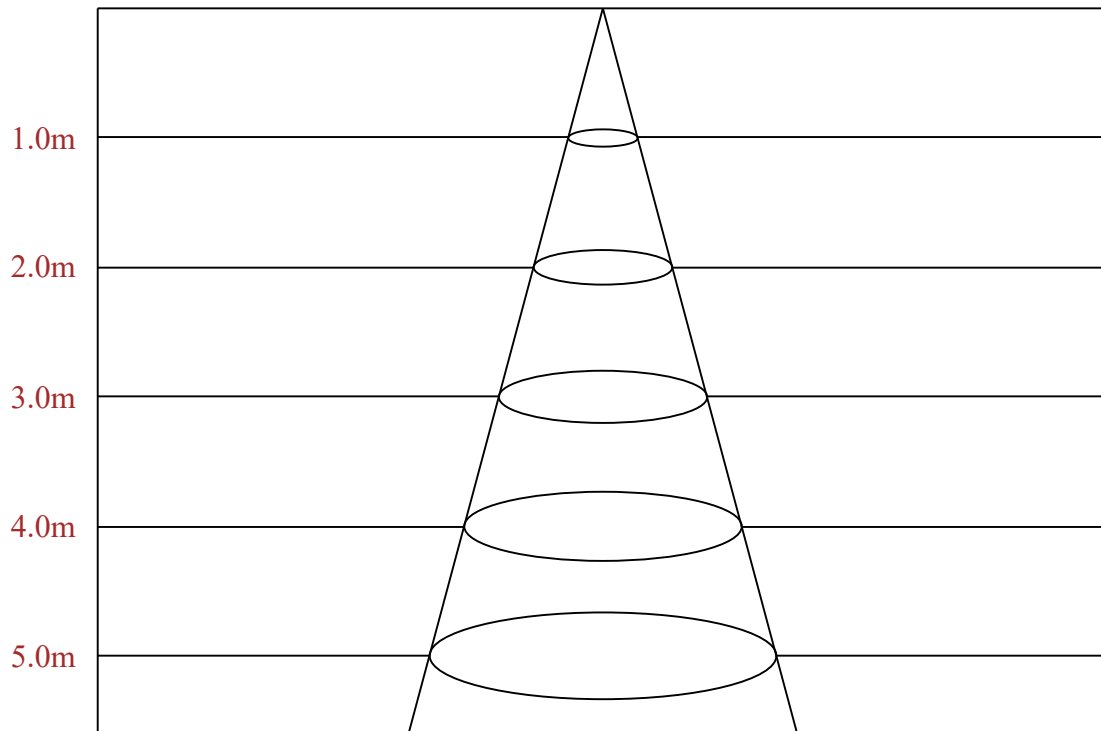
C90/C270: —————

Field angle(10%Imax):C0/180Left:0.0 Right:0.0

:C90/270Left:0.0 Right:0.0

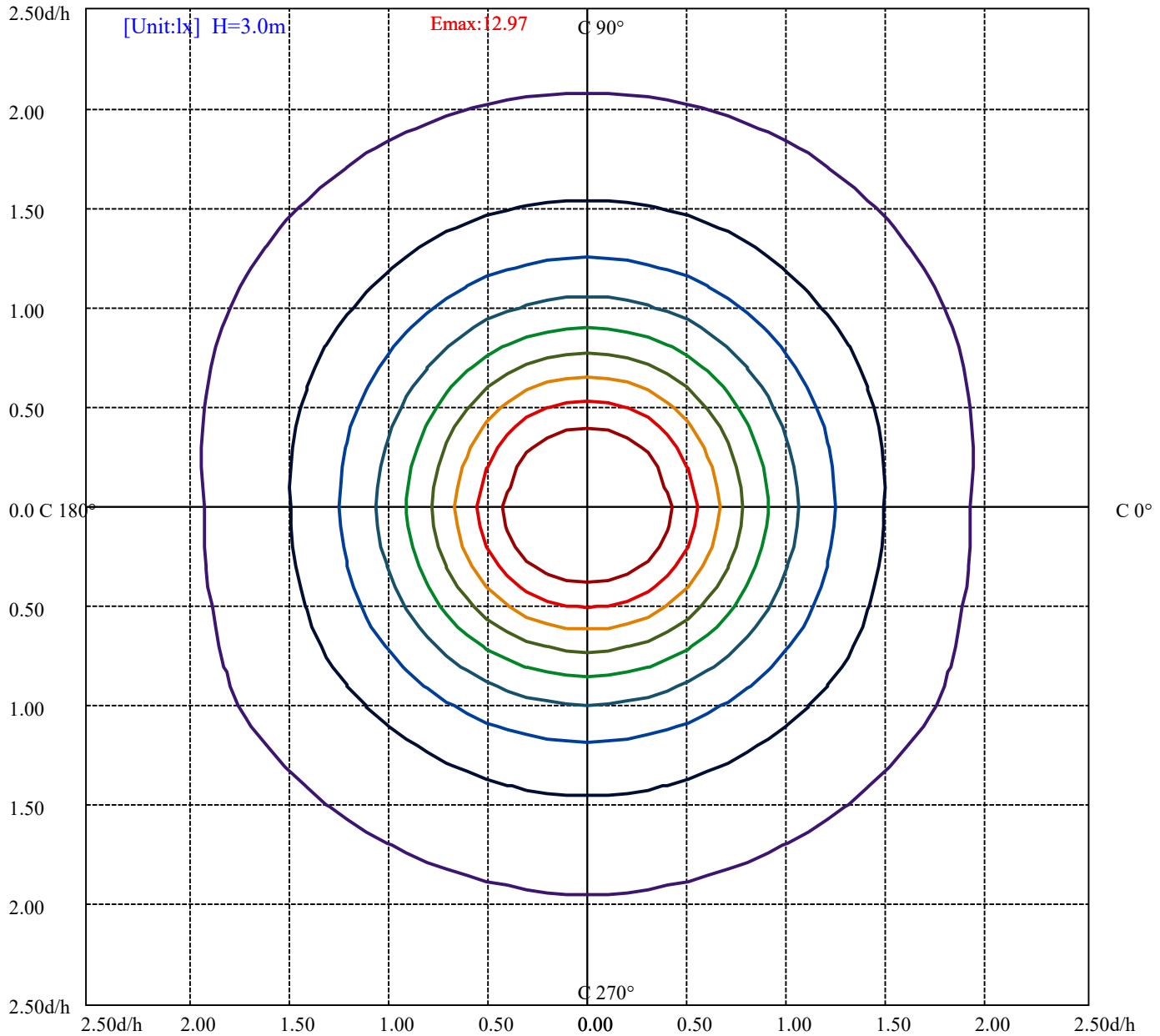
Beam Angle(50%Imax):C0/180Left:208.9 Right:118.9

:C90/270Left:176.3 Right:117.5

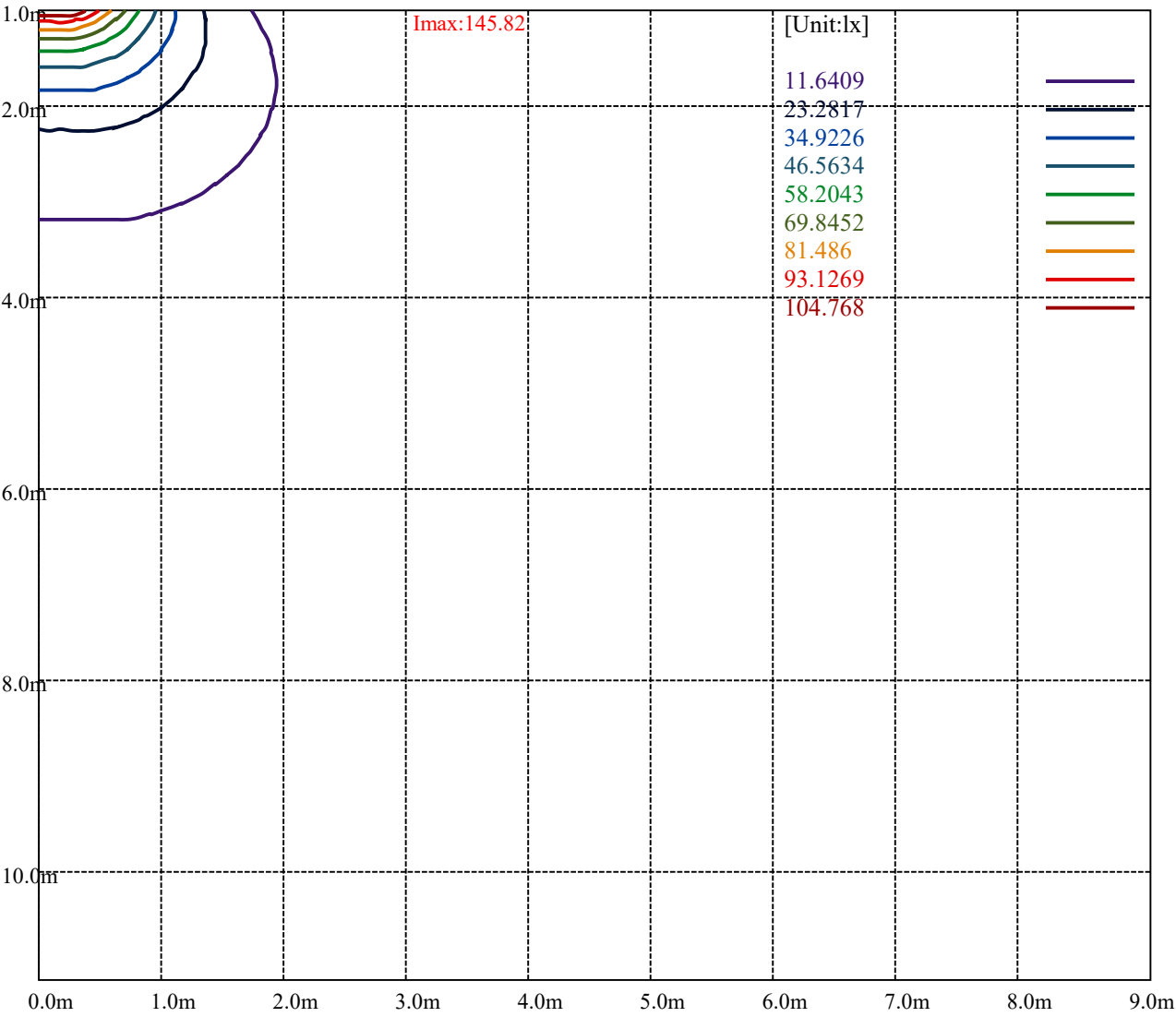


Max , Ave

Beam angle of C60 plane 345.45



(10%Emax) 1.2965	—
(20%Emax) 2.593	—
(30%Emax) 3.889489	—
(40%Emax) 5.185989	—
(50%Emax) 6.482489	—
(60%Emax) 7.778989	—
(70%Emax) 9.075478	—
(80%Emax) 10.37198	—
(90%Emax) 11.66844	—



Luminance Table

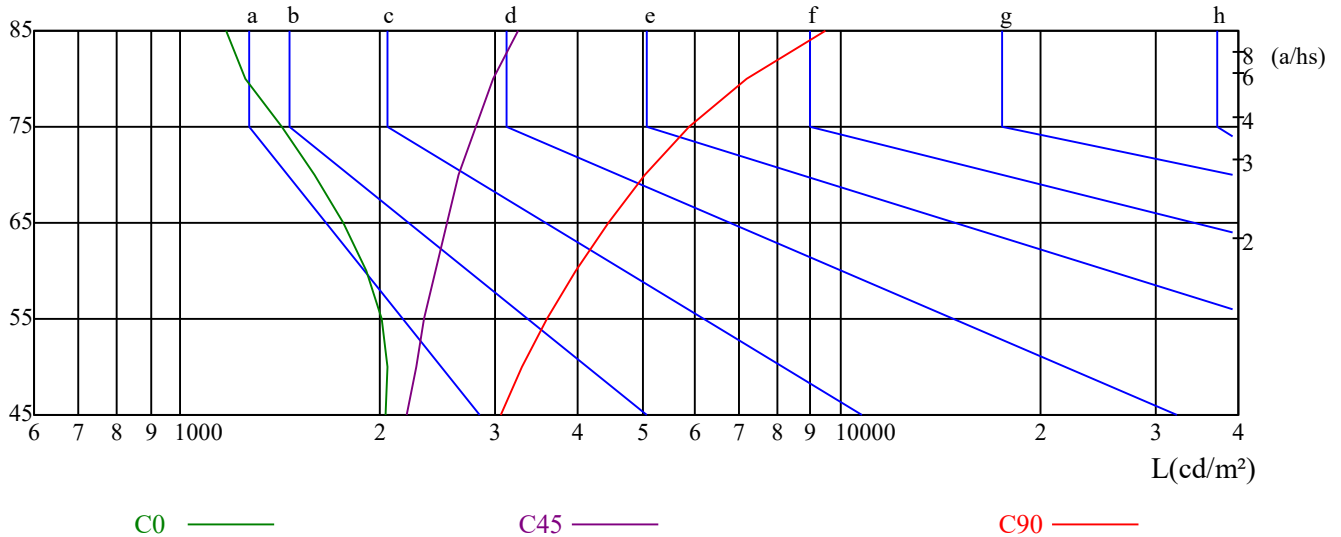
γ	45	50	55	60	65	70	75	80	85
C0	2048	2057	2022	1908	1769	1600	1422	1256	1169
C45	2200	2269	2337	2429	2533	2644	2794	2983	3238
C90	3055	3299	3586	3962	4435	5057	5882	7222	9500

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4529	5404	5575	5282	8265	8389	10888	22698	22098

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	1.09	1.09	1.09	1.01	1.01	1.01	0.87	0.87	0.87	0.74	0.74	0.74	0.62	0.62	0.62	0.57
1	0.89	0.84	0.79	0.83	0.78	0.74	0.71	0.67	0.63	0.59	0.56	0.54	0.49	0.47	0.45	0.40
2	0.76	0.68	0.61	0.70	0.63	0.57	0.59	0.54	0.49	0.50	0.46	0.42	0.41	0.38	0.35	0.30
3	0.65	0.56	0.49	0.60	0.52	0.46	0.51	0.45	0.40	0.43	0.38	0.34	0.35	0.31	0.28	0.24
4	0.57	0.47	0.40	0.53	0.44	0.38	0.45	0.38	0.33	0.37	0.32	0.28	0.30	0.26	0.23	0.19
5	0.50	0.41	0.34	0.46	0.38	0.32	0.39	0.33	0.27	0.33	0.27	0.23	0.27	0.23	0.19	0.16
6	0.45	0.35	0.29	0.41	0.33	0.27	0.35	0.28	0.23	0.29	0.24	0.20	0.24	0.20	0.16	0.13
7	0.40	0.31	0.25	0.37	0.29	0.23	0.32	0.25	0.20	0.26	0.21	0.17	0.22	0.17	0.14	0.11
8	0.36	0.27	0.22	0.33	0.26	0.20	0.29	0.22	0.18	0.24	0.19	0.15	0.20	0.16	0.12	0.10
9	0.33	0.25	0.19	0.30	0.23	0.18	0.26	0.20	0.15	0.22	0.17	0.13	0.18	0.14	0.11	0.09
10	0.30	0.22	0.17	0.28	0.21	0.16	0.24	0.18	0.14	0.20	0.15	0.12	0.17	0.13	0.10	0.08

Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	115.92	112.24	115.92	122.36	126.96	132.48	135.24	138.00	139.84
15.0	115.00	111.32	115.00	122.36	126.96	131.56	136.16	138.00	140.76
30.0	115.00	112.24	115.92	122.36	127.88	132.48	137.08	139.84	141.68
45.0	115.00	113.16	117.76	123.28	127.88	133.40	137.08	140.76	142.60
60.0	114.08	113.16	117.76	124.20	128.80	133.40	137.08	140.76	142.60
75.0	113.16	113.16	117.76	124.20	128.80	132.48	137.08	139.84	141.68
90.0	111.32	113.16	118.68	124.20	128.80	133.40	137.08	138.92	141.68
105.0	111.32	114.08	120.52	125.12	130.64	134.32	138.00	140.76	142.60
120.0	111.32	115.00	120.52	126.96	131.56	136.16	139.84	141.68	143.52
135.0	114.08	115.92	121.44	127.88	131.56	136.16	138.92	141.68	143.52
150.0	110.40	115.92	122.36	127.88	135.24	136.16	138.92	140.76	142.60
165.0	110.40	115.92	122.36	127.88	132.48	136.16	138.92	140.76	141.68
180.0	115.92	122.36	127.88	133.40	137.08	140.76	142.60	144.44	145.36
195.0	115.00	121.44	126.96	132.48	137.08	139.84	142.60	143.52	144.44
210.0	115.00	121.44	126.96	131.56	135.24	138.00	140.76	141.68	141.68
225.0	115.00	120.52	126.04	130.64	134.32	137.08	138.92	139.84	139.84
240.0	114.08	119.60	125.12	128.80	132.48	134.32	136.16	136.16	136.16
255.0	113.16	117.76	122.36	126.96	129.72	131.56	133.40	133.40	133.40
270.0	111.32	115.92	120.52	125.12	127.88	130.64	131.56	132.48	131.56
285.0	111.32	115.00	120.52	125.12	127.88	130.64	131.56	132.48	132.48
300.0	111.32	114.08	119.60	124.20	125.12	130.64	132.48	133.40	134.32
315.0	114.08	113.16	118.68	123.28	127.88	130.64	133.40	135.24	136.16
330.0	110.40	112.24	117.76	123.28	126.96	130.64	133.40	135.24	137.08
345.0	110.40	112.24	117.76	123.28	127.88	131.56	134.32	136.16	137.08
360.0	115.92	112.24	115.92	122.36	126.96	132.48	135.24	138.00	139.84
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	140.76	141.68	139.84	130.64	118.68	103.04	87.40	70.84	57.04
15.0	141.68	142.60	142.60	138.92	131.56	123.28	115.00	105.80	96.60
30.0	143.52	143.52	143.52	143.52	141.68	139.84	137.08	133.40	128.80
45.0	144.44	145.36	145.36	145.36	144.44	142.60	139.84	137.08	133.40
60.0	144.44	145.36	146.28	146.28	145.36	144.44	142.60	138.92	136.16
75.0	142.60	143.52	144.44	144.44	143.52	141.68	138.92	136.16	133.40
90.0	142.60	143.52	143.52	143.52	142.60	140.76	137.08	134.32	130.64
105.0	143.52	144.44	145.36	144.44	143.52	141.68	139.84	136.16	134.32
120.0	145.36	145.36	145.36	145.36	143.52	141.68	138.00	135.24	133.40
135.0	144.44	145.36	144.44	143.52	141.68	138.00	135.24	131.56	128.80
150.0	143.52	143.52	143.52	139.84	133.40	126.96	120.52	113.16	109.48
165.0	142.60	142.60	137.08	126.04	114.08	100.28	87.40	75.44	69.00
180.0	145.36	140.76	130.64	115.92	100.28	84.64	69.00	57.04	51.52
195.0	144.44	144.44	138.92	130.64	120.52	109.48	95.68	83.72	74.52
210.0	142.60	142.60	140.76	138.00	132.48	125.12	114.08	101.20	91.08
225.0	138.92	138.00	135.24	131.56	126.04	119.60	109.48	99.36	88.32
240.0	135.24	133.40	130.64	126.96	122.36	115.00	107.64	98.44	92.00
255.0	131.56	129.72	127.88	124.20	119.60	114.08	107.64	105.80	94.76
270.0	130.64	128.80	126.96	126.04	118.68	114.08	107.64	101.20	95.68
285.0	130.64	129.72	127.88	124.20	119.60	114.08	107.64	99.36	92.92
300.0	133.40	132.48	129.72	126.96	122.36	116.84	108.56	99.36	90.16
315.0	135.24	135.24	134.32	131.56	126.96	121.44	112.24	101.20	90.16
330.0	137.08	137.08	136.16	133.40	127.88	119.60	108.56	95.68	82.80
345.0	137.08	137.08	132.48	123.28	110.40	98.44	85.56	71.76	60.72
360.0	140.76	141.68	139.84	130.64	118.68	103.04	87.40	70.84	57.04

乐达凯 SYDV2107LAJUDLB

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	49.68	50.60	57.04	67.16	79.12	89.24	97.52	103.96	106.72
15.0	92.00	92.92	97.52	105.80	112.24	116.84	120.52	121.44	120.52
30.0	126.04	126.96	130.64	133.40	136.16	137.08	137.08	135.24	131.56
45.0	131.56	133.40	136.16	138.92	140.76	140.76	138.92	136.16	133.40
60.0	136.16	137.08	139.84	141.68	141.68	140.76	139.84	136.16	133.40
75.0	132.48	134.32	137.08	138.92	139.84	138.92	138.00	136.16	133.40
90.0	130.64	132.48	135.24	137.08	138.00	138.00	137.08	135.24	132.48
105.0	134.32	137.08	138.92	140.76	140.76	139.84	138.92	136.16	132.48
120.0	134.32	137.08	139.84	141.68	141.68	140.76	138.00	134.32	131.56
135.0	130.64	132.48	136.16	138.00	139.84	138.92	137.08	134.32	129.72
150.0	107.64	113.16	119.60	125.12	129.72	131.56	132.48	129.72	125.12
165.0	67.16	72.68	80.04	90.16	97.52	104.88	109.48	112.24	111.32
180.0	53.36	57.96	68.08	80.04	91.08	99.36	104.88	106.72	104.88
195.0	67.16	62.56	63.48	67.16	72.68	78.20	83.72	86.48	86.48
210.0	79.12	68.08	64.40	59.80	56.12	56.12	57.04	59.80	62.56
225.0	80.04	69.00	62.56	57.96	54.28	53.36	53.36	55.20	57.96
240.0	85.56	78.20	76.36	67.16	64.40	63.48	63.48	63.48	64.40
255.0	90.16	83.72	77.28	74.52	74.52	73.60	72.68	72.68	71.76
270.0	92.00	84.64	79.12	77.28	77.28	76.36	75.44	74.52	73.60
285.0	87.40	80.04	73.60	69.00	67.16	64.40	64.40	63.48	63.48
300.0	80.96	70.84	64.40	59.80	56.12	54.28	54.28	55.20	57.04
315.0	78.20	65.32	58.88	56.12	52.44	50.60	49.68	50.60	52.44
330.0	71.76	63.48	60.72	60.72	62.56	66.24	69.92	72.68	73.60
345.0	54.28	53.36	55.20	63.48	71.76	81.88	89.24	95.68	97.52
360.0	49.68	50.60	57.04	67.16	79.12	89.24	97.52	103.96	106.72
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	105.80	103.04	100.28	98.44	95.68	93.84	80.96	59.80	65.32
15.0	116.84	112.24	108.56	103.96	100.28	97.52	90.16	69.00	61.64
30.0	126.04	121.44	115.92	111.32	105.80	100.28	93.84	80.96	59.80
45.0	128.80	124.20	118.68	114.08	107.64	101.20	95.68	88.32	70.84
60.0	129.72	125.12	119.60	115.00	108.56	102.12	95.68	88.32	80.96
75.0	128.80	125.12	119.60	114.08	108.56	102.12	94.76	88.32	80.04
90.0	128.80	124.20	118.68	113.16	107.64	101.20	93.84	87.40	80.04
105.0	127.88	123.28	118.68	113.16	106.72	100.28	92.92	86.48	79.12
120.0	126.96	122.36	116.84	111.32	104.88	98.44	92.00	84.64	77.28
135.0	125.12	120.52	114.08	108.56	103.04	96.60	89.24	82.80	76.36
150.0	119.60	114.08	109.48	103.96	98.44	92.92	87.40	80.96	74.52
165.0	107.64	103.96	101.20	98.44	94.76	90.16	84.64	79.12	73.60
180.0	102.12	99.36	97.52	94.76	92.92	77.28	54.28	59.80	57.96
195.0	86.48	85.56	83.72	80.04	78.20	77.28	53.36	55.20	51.52
210.0	65.32	66.24	67.16	69.92	70.84	60.72	53.36	52.44	52.44
225.0	63.48	69.92	74.52	77.28	78.20	75.44	59.80	53.36	53.36
240.0	66.24	69.92	73.60	77.28	77.28	77.28	67.16	52.44	44.16
255.0	71.76	72.68	73.60	74.52	73.60	70.84	61.64	40.48	44.16
270.0	72.68	73.60	74.52	75.44	75.44	71.76	55.20	30.36	53.36
285.0	64.40	67.16	69.92	73.60	75.44	69.92	48.76	44.16	65.32
300.0	60.72	65.32	70.84	75.44	78.20	69.00	50.60	55.20	67.16
315.0	55.20	58.88	63.48	65.32	66.24	62.56	55.20	61.64	69.00
330.0	73.60	72.68	71.76	69.92	67.16	65.32	61.64	67.16	72.68
345.0	95.68	93.84	90.16	87.40	85.56	81.88	74.52	73.60	74.52
360.0	105.80	103.04	100.28	98.44	95.68	93.84	80.96	59.80	65.32

Intensity data(cd)

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C/ $\gamma(^{\circ})$	180.0
0.0	55.20
15.0	65.32
30.0	59.80
45.0	52.44
60.0	61.64
75.0	74.52
90.0	74.52
105.0	73.60
120.0	72.68
135.0	71.76
150.0	70.84
165.0	69.92
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	55.20