
乐达凯

Client:

LumCAT: SYDV2107LAJUDLB

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 119.990

LampCAT:

Current(A): 0.172

Lamp flux(lm): 1372.0

Power (W): 20.410

Number of Lamps: 1

PF: 0.991

Length(mm): 520

Width(mm): 110

Phm Type: C

Height(mm): 80

Photometric Results

Lumens(lm): 1371.99, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 67.22

Central intensity(cd): 114.996, Maximum intensity(cd): 144.895

Angle of maximum intensity: C=60.0 γ =60.0

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=2.00

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 : 30.950%

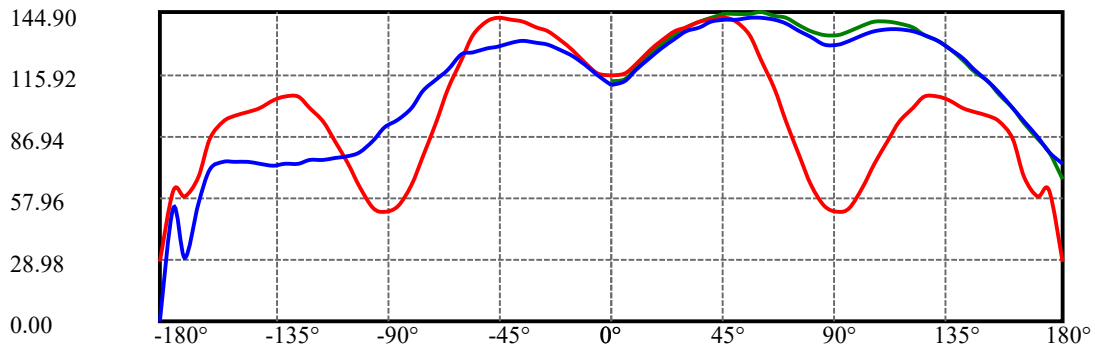
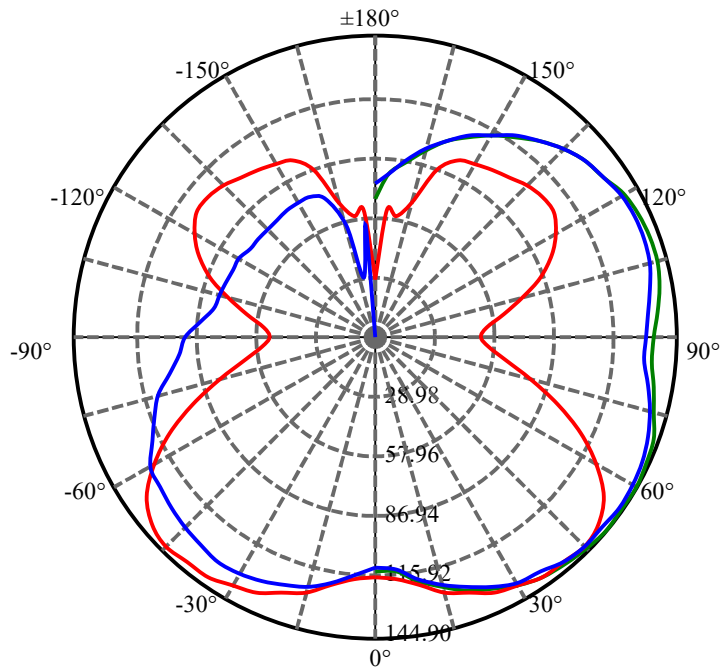
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	112.313	0.000	0	0.00%	0.00%
5.0	114.613	2.713	2.713	0.20%	0.20%
10.0	119.826	8.387	11.099	0.61%	0.81%
15.0	125.193	14.534	25.634	1.06%	1.87%
20.0	129.371	20.980	46.613	1.53%	3.40%
25.0	133.012	27.519	74.133	2.01%	5.40%
30.0	135.811	34.020	108.152	2.48%	7.88%
35.0	137.612	40.263	148.416	2.93%	10.82%
40.0	138.762	46.111	194.527	3.36%	14.18%
45.0	139.030	51.436	245.962	3.75%	17.93%
50.0	138.839	56.148	302.11	4.09%	22.02%
55.0	137.075	59.993	362.103	4.37%	26.39%
60.0	133.434	62.527	424.63	4.56%	30.95%
65.0	127.837	63.516	488.146	4.63%	35.58%
70.0	121.513	63.137	551.283	4.60%	40.18%
75.0	113.770	61.499	612.782	4.48%	44.66%
80.0	105.950	58.791	671.572	4.29%	48.95%
85.0	99.127	55.724	727.297	4.06%	53.01%
90.0	94.757	53.087	780.383	3.87%	56.88%
95.0	92.495	51.271	831.655	3.74%	60.62%
100.0	93.262	50.475	882.129	3.68%	64.30%
105.0	94.795	50.319	932.448	3.67%	67.96%
110.0	96.712	50.057	982.505	3.65%	71.61%
115.0	98.207	49.355	1031.86	3.60%	75.21%
120.0	99.395	48.037	1079.897	3.50%	78.71%
125.0	99.625	46.003	1125.9	3.35%	82.06%
130.0	98.820	43.149	1169.048	3.14%	85.21%
135.0	97.210	39.611	1208.659	2.89%	88.10%
140.0	95.792	35.736	1244.395	2.60%	90.70%
145.0	94.029	31.670	1276.065	2.31%	93.01%
150.0	92.035	27.399	1303.464	2.00%	95.01%
155.0	89.429	22.964	1326.429	1.67%	96.68%
160.0	84.292	18.220	1344.649	1.33%	98.01%
165.0	74.058	13.050	1357.699	0.95%	98.96%
170.0	67.043	8.370	1366.069	0.61%	99.57%
175.0	65.586	4.745	1370.814	0.35%	99.91%
180.0	33.157	1.180	1371.994	0.09%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	108.15	7.88%	7.88%
0-40	194.53	14.18%	14.18%
0-60	424.63	30.95%	30.95%
0-90	780.38	56.88%	56.88%
0-120	1079.90	78.71%	78.71%
0-180	1371.99	100.00%	100.00%
60-90	355.75	25.93%	25.93%
90-120	299.51	21.83%	21.83%
90-130	388.66	28.33%	28.33%
90-150	523.08	38.13%	38.13%
90-180	590.43	43.03%	43.03%
0-121.92	1097.60	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	11.10
10-20	35.51
20-30	61.54
30-40	86.37
40-50	107.58
50-60	122.52
60-70	126.65
70-80	120.29
80-90	108.81
90-100	101.75
100-110	100.38
110-120	97.39
120-130	89.15
130-140	75.35
140-150	59.07
150-160	41.18
160-170	21.42
170-180	4.74



C60(Max): —————

C0/C180: —————

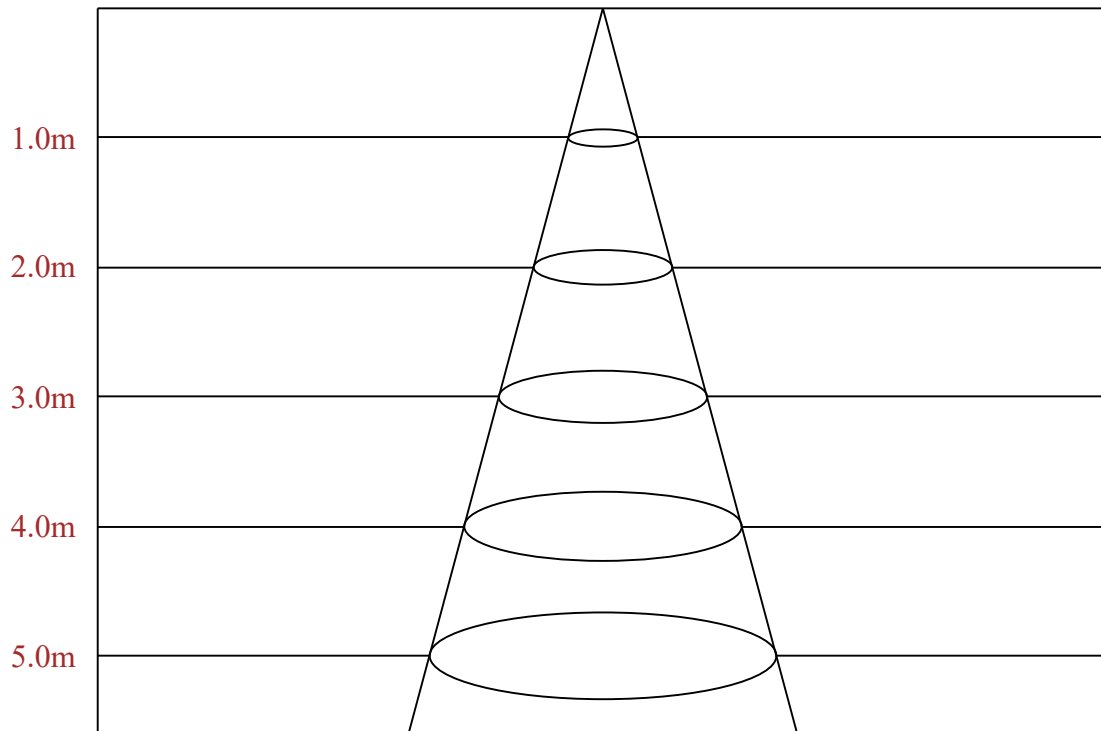
C90/C270: —————

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

:C90/270Left:0.0 Right:0.0

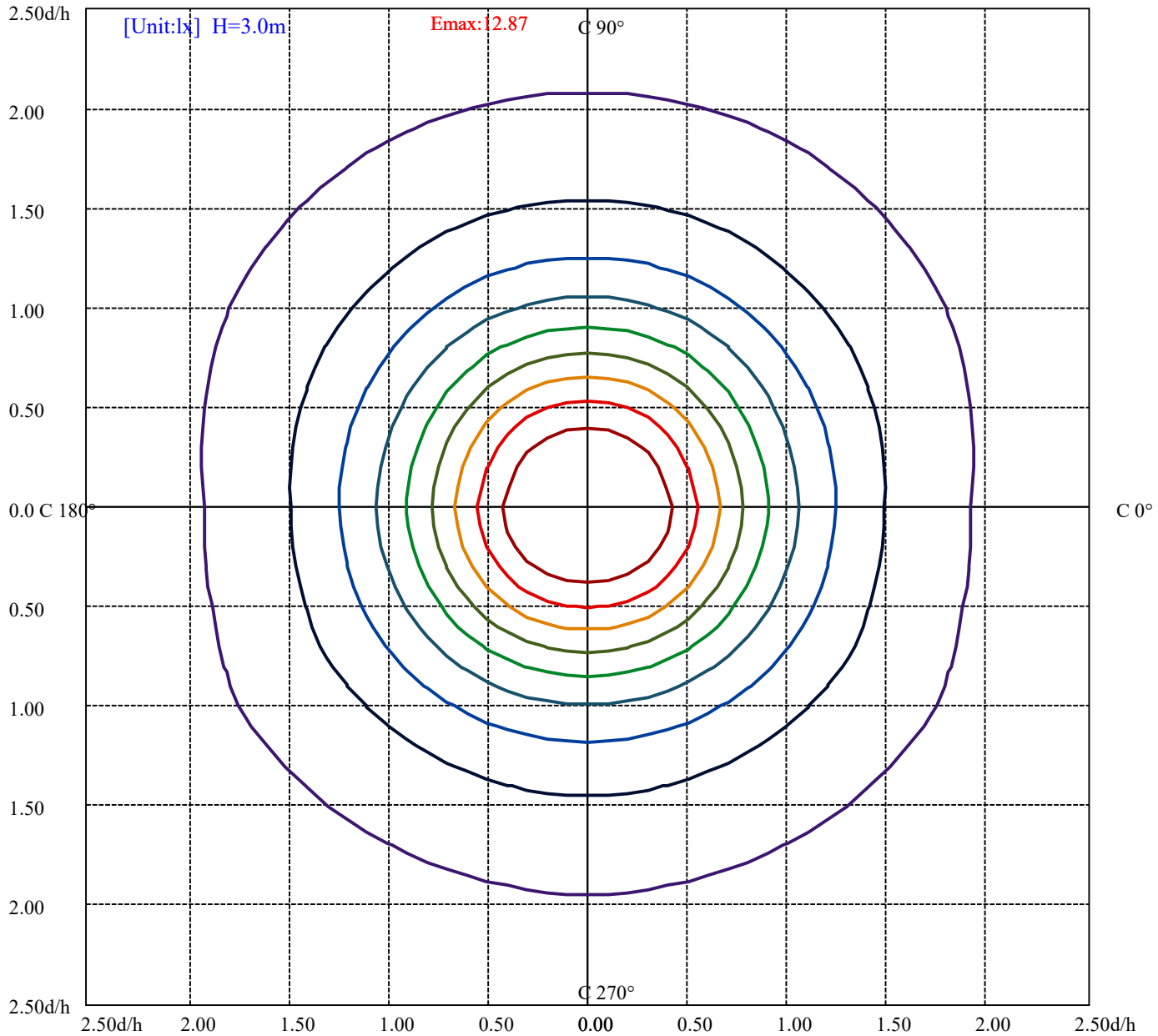
Beam Angle(50%Imax):C0/180Left:208.9 Right:118.9

:C90/270Left:176.3 Right:117.5

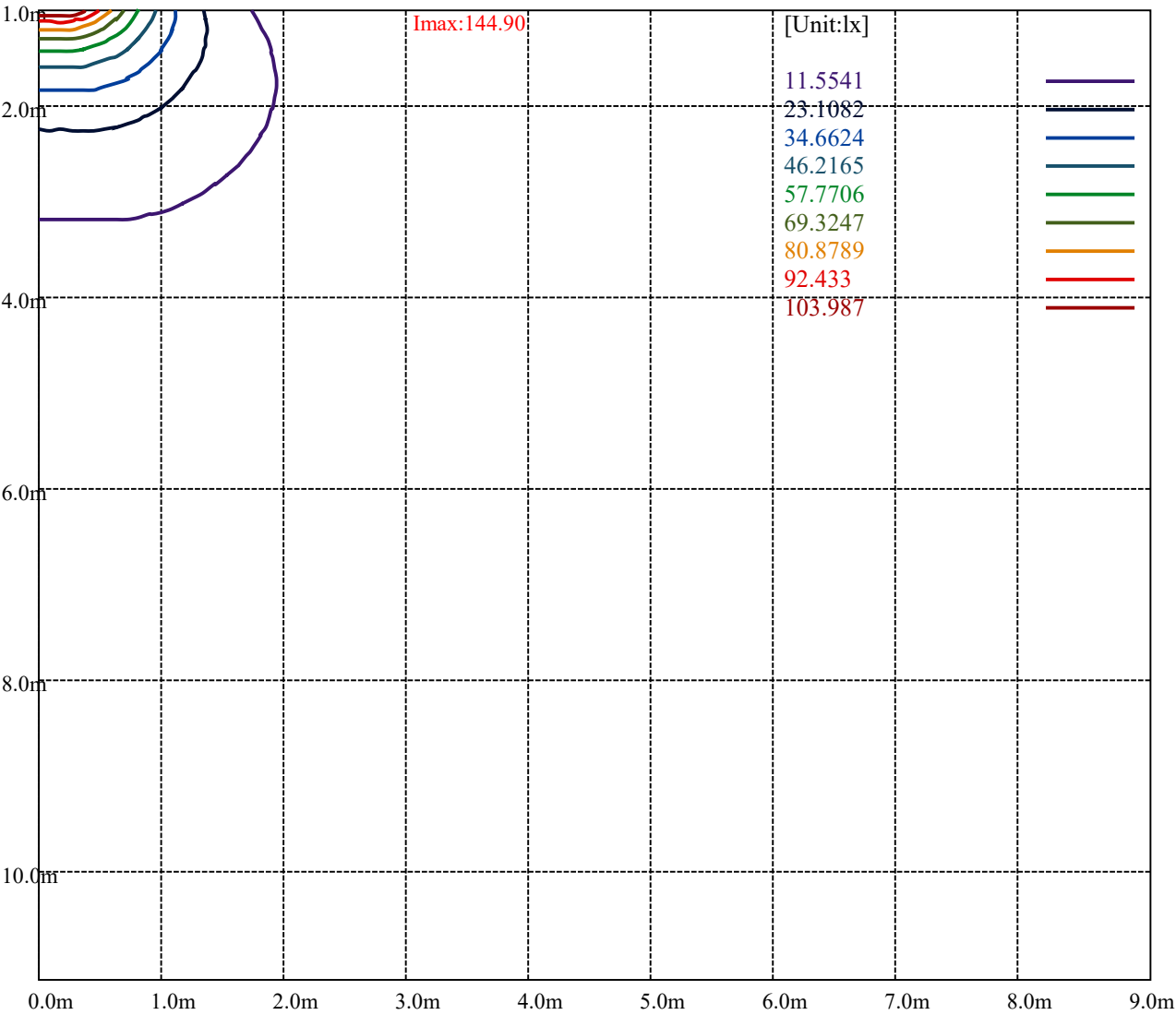


Max , Ave

Beam angle of C60 plane 294.50



(10%Emax)	1.286578	
(20%Emax)	2.573144	
(30%Emax)	3.859722	
(40%Emax)	5.1463	
(50%Emax)	6.432878	
(60%Emax)	7.719444	
(70%Emax)	9.006022	
(80%Emax)	10.2926	
(90%Emax)	11.57922	



Luminance Table

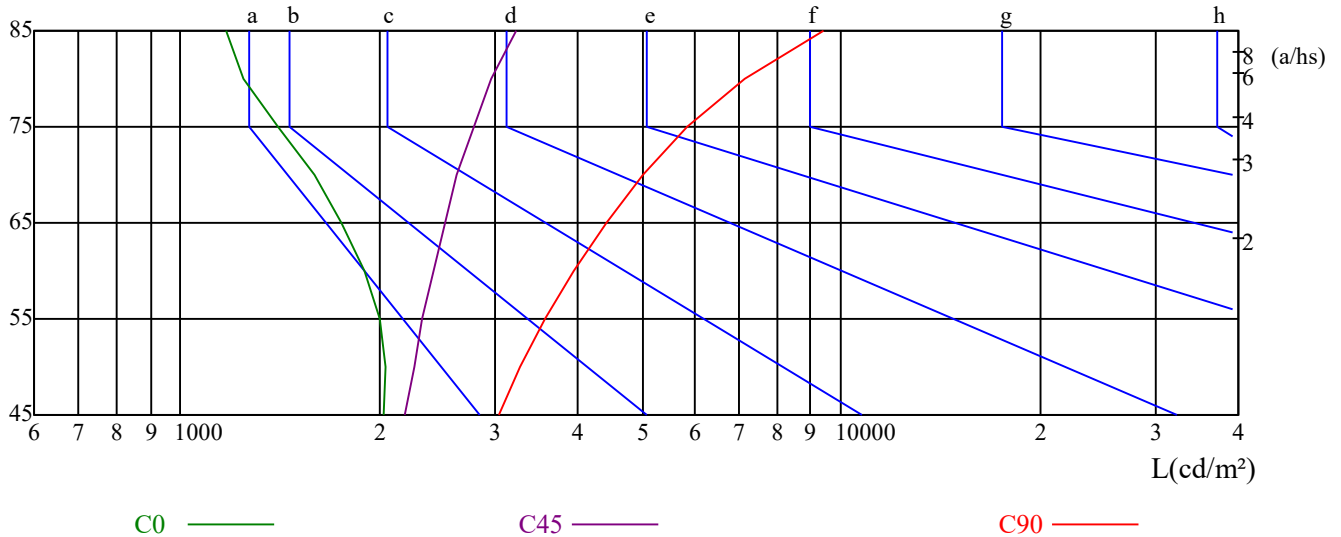
γ	45	50	55	60	65	70	75	80	85
C0	2035	2044	2008	1893	1754	1592	1405	1247	1169
C45	2186	2254	2322	2413	2509	2627	2775	2962	3215
C90	3036	3256	3563	3937	4407	5024	5842	7172	9433

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4491	5366	5528	5220	8234	8327	10888	22513	21960

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	115.00	111.32	115.00	121.44	126.04	131.56	134.32	137.08	138.92
15.0	114.08	110.40	115.00	121.44	126.04	130.64	135.24	137.08	139.84
30.0	114.08	111.32	115.00	121.44	126.96	131.56	136.16	138.92	140.76
45.0	114.08	112.24	116.84	122.36	126.96	132.48	136.16	139.84	141.68
60.0	113.16	112.24	116.84	123.28	127.88	132.48	136.16	139.84	141.68
75.0	112.24	112.24	116.84	123.28	127.88	131.56	136.16	138.92	140.76
90.0	110.40	112.24	117.76	123.28	127.88	132.48	136.16	138.00	140.76
105.0	111.32	113.16	119.60	124.20	129.72	133.40	137.08	139.84	141.68
120.0	111.32	114.08	120.52	126.04	130.64	135.24	138.92	140.76	142.60
135.0	113.16	115.00	120.52	126.96	130.64	135.24	138.00	140.76	142.60
150.0	109.48	115.00	121.44	126.96	134.32	135.24	138.00	139.84	141.68
165.0	109.48	115.00	121.44	126.96	131.56	135.24	138.00	139.84	140.76
180.0	115.00	121.44	126.96	132.48	136.16	139.84	141.68	143.52	143.52
195.0	114.08	120.52	126.04	131.56	136.16	138.92	141.68	142.60	143.52
210.0	114.08	120.52	126.04	130.64	134.32	137.08	138.92	140.76	140.76
225.0	114.08	119.60	125.12	129.72	133.40	136.16	138.00	138.92	138.92
240.0	113.16	118.68	124.20	127.88	131.56	133.40	135.24	135.24	135.24
255.0	112.24	116.84	121.44	126.04	128.80	130.64	132.48	132.48	132.48
270.0	110.40	115.00	119.60	124.20	126.96	129.72	130.64	131.56	130.64
285.0	111.32	115.00	119.60	124.20	126.96	129.72	130.64	131.56	131.56
300.0	111.32	114.08	118.68	123.28	124.20	129.72	131.56	132.48	133.40
315.0	113.16	112.24	117.76	122.36	126.96	129.72	132.48	133.40	135.24
330.0	109.48	111.32	116.84	122.36	126.04	129.72	132.48	134.32	135.24
345.0	109.48	111.32	116.84	122.36	126.96	130.64	133.40	135.24	136.16
360.0	115.00	111.32	115.00	121.44	126.04	131.56	134.32	137.08	138.92
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	139.84	140.76	138.92	129.72	117.76	103.04	86.48	70.84	57.04
15.0	140.76	141.68	141.68	138.00	130.64	122.36	114.08	104.88	96.60
30.0	141.68	142.60	142.60	142.60	140.76	138.92	136.16	132.48	127.88
45.0	143.52	144.44	144.44	144.44	143.52	141.68	138.92	136.16	132.48
60.0	143.52	144.44	144.44	145.36	143.52	141.68	140.76	138.00	135.24
75.0	141.68	142.60	143.52	143.52	142.60	140.76	138.00	135.24	132.48
90.0	141.68	141.68	142.60	142.60	141.68	139.84	136.16	133.40	129.72
105.0	142.60	143.52	144.44	143.52	142.60	140.76	138.92	135.24	133.40
120.0	144.44	144.44	144.44	144.44	142.60	140.76	137.08	134.32	132.48
135.0	143.52	144.44	143.52	142.60	139.84	137.08	134.32	130.64	127.88
150.0	142.60	142.60	142.60	138.92	132.48	126.04	119.60	112.24	108.56
165.0	141.68	141.68	136.16	125.12	113.16	100.28	86.48	74.52	68.08
180.0	144.44	139.84	129.72	115.00	99.36	83.72	68.08	56.12	51.52
195.0	143.52	143.52	138.00	129.72	119.60	108.56	94.76	82.80	73.60
210.0	140.76	140.76	139.84	137.08	131.56	124.20	113.16	100.28	90.16
225.0	138.00	137.08	134.32	130.64	125.12	118.68	108.56	98.44	88.32
240.0	134.32	132.48	129.72	126.04	121.44	114.08	106.72	98.44	91.08
255.0	130.64	128.80	126.96	123.28	118.68	113.16	106.72	104.88	93.84
270.0	128.80	127.88	126.04	125.12	117.76	113.16	107.64	100.28	94.76
285.0	129.72	128.80	126.96	123.28	118.68	113.16	106.72	99.36	92.00
300.0	132.48	131.56	128.80	126.04	121.44	115.92	107.64	98.44	89.24
315.0	134.32	134.32	133.40	130.64	126.04	120.52	111.32	100.28	89.24
330.0	136.16	136.16	135.24	132.48	126.96	118.68	107.64	94.76	82.80
345.0	136.16	136.16	131.56	122.36	109.48	97.52	84.64	70.84	60.72
360.0	139.84	140.76	138.92	129.72	117.76	103.04	86.48	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	49.68	57.04	67.16	78.20	88.32	96.60	103.04	106.72	
15.0	91.08	92.00	96.60	104.88	111.32	115.92	119.60	120.52	119.60	
30.0	125.12	126.04	129.72	132.48	135.24	136.16	135.24	134.32	130.64	
45.0	130.64	132.48	135.24	138.00	138.92	139.84	138.00	135.24	132.48	
60.0	134.32	136.16	138.92	140.76	140.76	139.84	138.92	135.24	132.48	
75.0	131.56	133.40	135.24	137.08	137.08	138.00	137.08	135.24	132.48	
90.0	129.72	131.56	134.32	136.16	137.08	137.08	136.16	134.32	131.56	
105.0	133.40	136.16	138.00	139.84	139.84	138.92	138.00	135.24	131.56	
120.0	133.40	136.16	138.92	140.76	140.76	139.84	137.08	133.40	130.64	
135.0	128.80	131.56	135.24	137.08	138.00	138.00	136.16	133.40	128.80	
150.0	107.64	112.24	118.68	124.20	128.80	130.64	131.56	128.80	124.20	
165.0	67.16	72.68	79.12	89.24	96.60	103.96	108.56	111.32	110.40	
180.0	52.44	57.04	68.08	80.04	91.08	99.36	103.96	106.72	103.96	
195.0	67.16	61.64	63.48	66.24	72.68	77.28	82.80	85.56	85.56	
210.0	79.12	67.16	63.48	58.88	56.12	55.20	57.04	59.80	61.64	
225.0	79.12	68.08	62.56	57.04	54.28	53.36	53.36	54.28	57.96	
240.0	84.64	78.20	75.44	66.24	64.40	62.56	62.56	63.48	64.40	
255.0	89.24	82.80	77.28	74.52	73.60	72.68	72.68	71.76	71.76	
270.0	91.08	84.64	79.12	77.28	76.36	75.44	75.44	73.60	73.60	
285.0	86.48	79.12	73.60	69.00	66.24	64.40	63.48	63.48	63.48	
300.0	80.04	70.84	64.40	59.80	56.12	53.36	53.36	54.28	56.12	
315.0	77.28	65.32	58.88	55.20	52.44	49.68	49.68	50.60	52.44	
330.0	70.84	62.56	59.80	60.72	62.56	66.24	69.92	72.68	72.68	
345.0	54.28	52.44	55.20	62.56	71.76	80.96	88.32	94.76	96.60	
360.0	49.68	49.68	57.04	67.16	78.20	88.32	96.60	103.04	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	102.12	99.36	97.52	94.76	92.92	80.04	58.88	64.40	
15.0	115.92	111.32	107.64	103.96	100.28	96.60	89.24	69.00	61.64	
30.0	125.12	120.52	115.00	110.40	104.88	99.36	93.84	80.04	58.88	
45.0	127.88	123.28	118.68	113.16	107.64	101.20	94.76	87.40	70.84	
60.0	128.80	124.20	118.68	114.08	107.64	102.12	94.76	87.40	80.96	
75.0	127.88	124.20	118.68	113.16	107.64	101.20	93.84	87.40	80.04	
90.0	127.88	123.28	117.76	112.24	106.72	100.28	93.84	86.48	79.12	
105.0	126.96	122.36	117.76	112.24	105.80	99.36	92.92	85.56	78.20	
120.0	126.04	121.44	115.92	110.40	103.96	97.52	91.08	83.72	77.28	
135.0	124.20	119.60	113.16	107.64	102.12	95.68	89.24	82.80	75.44	
150.0	118.68	113.16	108.56	103.96	98.44	92.92	86.48	80.04	73.60	
165.0	106.72	103.96	100.28	97.52	94.76	90.16	84.64	78.20	72.68	
180.0	101.20	98.44	96.60	94.76	92.92	77.28	54.28	58.88	57.96	
195.0	85.56	84.64	82.80	79.12	78.20	76.36	53.36	55.20	51.52	
210.0	65.32	65.32	67.16	69.92	69.92	60.72	53.36	52.44	52.44	
225.0	62.56	69.92	74.52	76.36	77.28	74.52	59.80	52.44	52.44	
240.0	66.24	69.00	72.68	76.36	76.36	77.28	66.24	52.44	44.16	
255.0	70.84	71.76	72.68	73.60	72.68	70.84	61.64	40.48	43.24	
270.0	72.68	73.60	74.52	74.52	74.52	70.84	55.20	29.44	53.36	
285.0	64.40	67.16	69.92	72.68	74.52	69.92	48.76	44.16	64.40	
300.0	59.80	65.32	70.84	74.52	77.28	68.08	49.68	54.28	67.16	
315.0	55.20	58.88	62.56	65.32	66.24	61.64	55.20	61.64	68.08	
330.0	72.68	72.68	70.84	69.00	66.24	65.32	60.72	67.16	71.76	
345.0	94.76	92.92	90.16	86.48	85.56	80.96	74.52	73.60	74.52	
360.0	105.80	102.12	99.36	97.52	94.76	92.92	80.04	58.88	64.40	

Intensity data(cd)

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C/ $\gamma(^{\circ})$	180.0
0.0	55.20
15.0	65.32
30.0	58.88
45.0	52.44
60.0	61.64
75.0	73.60
90.0	73.60
105.0	72.68
120.0	71.76
135.0	70.84
150.0	69.92
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