
乐达凯

Client:

LumCAT: SYDV2107LAJUDLB

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.171

Lamp flux(lm): 1342.0

Power (W): 20.370

Number of Lamps: 1

PF: 0.992

Length(mm): 520

Width(mm): 110

Phm Type: C

Height(mm): 80

Photometric Results

Lumens(lm): 1341.95, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 65.88

Central intensity(cd): 112.236, Maximum intensity(cd): 141.675

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=1.86

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 : 30.949%

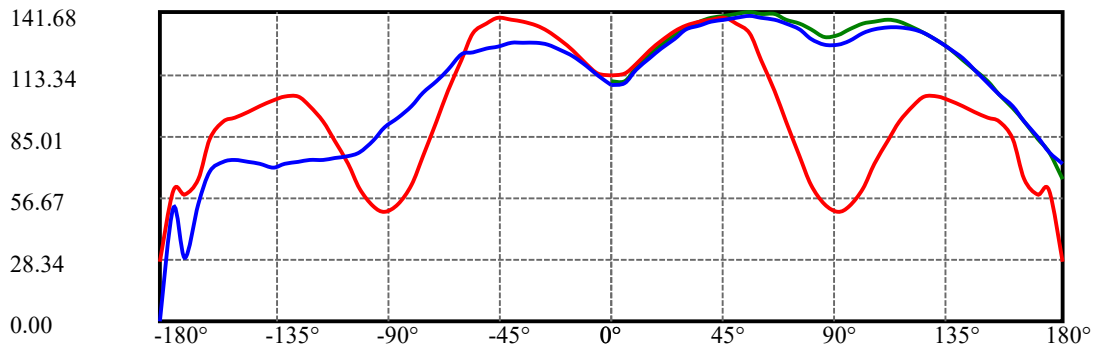
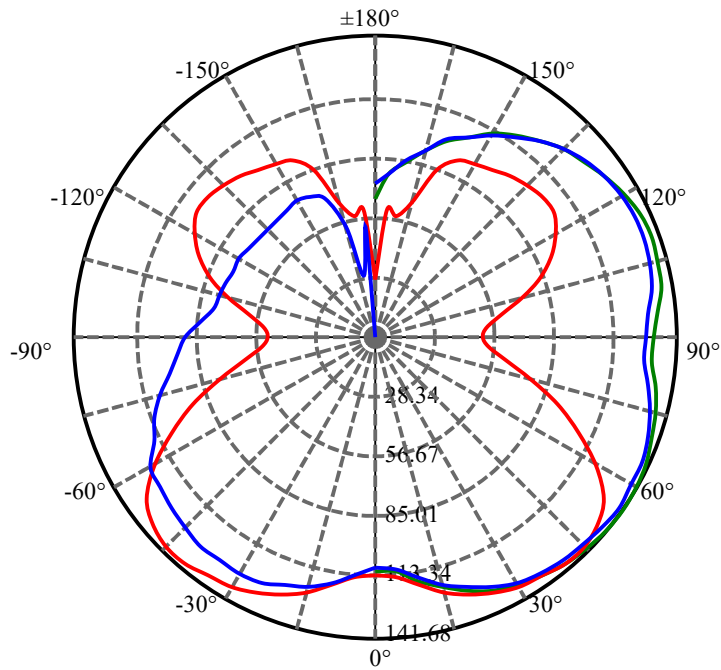
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	109.936	0.000	0	0.00%	0.00%
5.0	112.045	2.654	2.654	0.20%	0.20%
10.0	117.181	8.200	10.854	0.61%	0.81%
15.0	122.433	14.214	25.068	1.06%	1.87%
20.0	126.572	20.522	45.589	1.53%	3.40%
25.0	130.176	26.928	72.517	2.01%	5.40%
30.0	132.782	33.278	105.795	2.48%	7.88%
35.0	134.584	39.372	145.166	2.93%	10.82%
40.0	135.657	45.088	190.254	3.36%	14.18%
45.0	136.002	50.300	240.554	3.75%	17.93%
50.0	135.811	54.924	295.478	4.09%	22.02%
55.0	134.086	58.684	354.162	4.37%	26.39%
60.0	130.482	61.154	415.316	4.56%	30.95%
65.0	125.078	62.127	477.443	4.63%	35.58%
70.0	118.753	61.739	539.183	4.60%	40.18%
75.0	111.278	60.126	599.309	4.48%	44.66%
80.0	103.612	57.498	656.807	4.28%	48.94%
85.0	96.980	54.506	711.313	4.06%	53.01%
90.0	92.687	51.932	763.245	3.87%	56.88%
95.0	90.540	50.169	813.414	3.74%	60.61%
100.0	91.192	49.381	862.795	3.68%	64.29%
105.0	92.764	49.221	912.017	3.67%	67.96%
110.0	94.527	48.955	960.972	3.65%	71.61%
115.0	96.137	48.277	1009.249	3.60%	75.21%
120.0	97.172	46.994	1056.243	3.50%	78.71%
125.0	97.517	45.002	1101.244	3.35%	82.06%
130.0	96.597	42.207	1143.451	3.15%	85.21%
135.0	95.102	38.736	1182.186	2.89%	88.09%
140.0	93.799	34.976	1217.163	2.61%	90.70%
145.0	92.150	31.024	1248.187	2.31%	93.01%
150.0	89.889	26.807	1274.994	2.00%	95.01%
155.0	87.359	22.431	1297.424	1.67%	96.68%
160.0	82.376	17.802	1315.226	1.33%	98.01%
165.0	72.333	12.750	1327.977	0.95%	98.96%
170.0	65.586	8.181	1336.158	0.61%	99.57%
175.0	64.130	4.640	1340.798	0.35%	99.91%
180.0	32.467	1.155	1341.953	0.09%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	105.79	7.88%	7.88%
0-40	190.25	14.18%	14.18%
0-60	415.32	30.95%	30.95%
0-90	763.25	56.88%	56.88%
0-120	1056.24	78.71%	78.71%
0-180	1341.95	100.00%	100.00%
60-90	347.93	25.93%	25.93%
90-120	293.00	21.83%	21.83%
90-130	380.21	28.33%	28.33%
90-150	511.75	38.13%	38.13%
90-180	577.55	43.04%	43.04%
0-121.92	1073.56	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	10.85
10-20	34.74
20-30	60.21
30-40	84.46
40-50	105.22
50-60	119.84
60-70	123.87
70-80	117.62
80-90	106.44
90-100	99.55
100-110	98.18
110-120	95.27
120-130	87.21
130-140	73.71
140-150	57.83
150-160	40.23
160-170	20.93
170-180	4.64



C60(Max): ———

C0/C180: ———

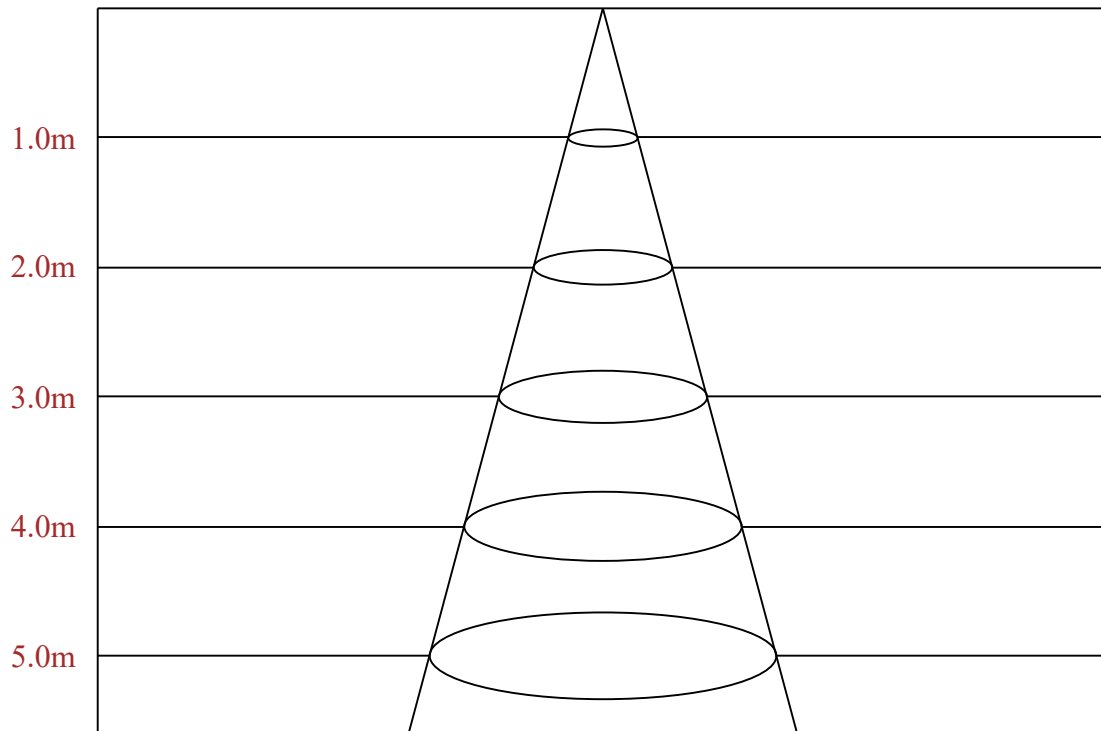
C90/C270: ———

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

:C90/270Left:0.0 Right:0.0

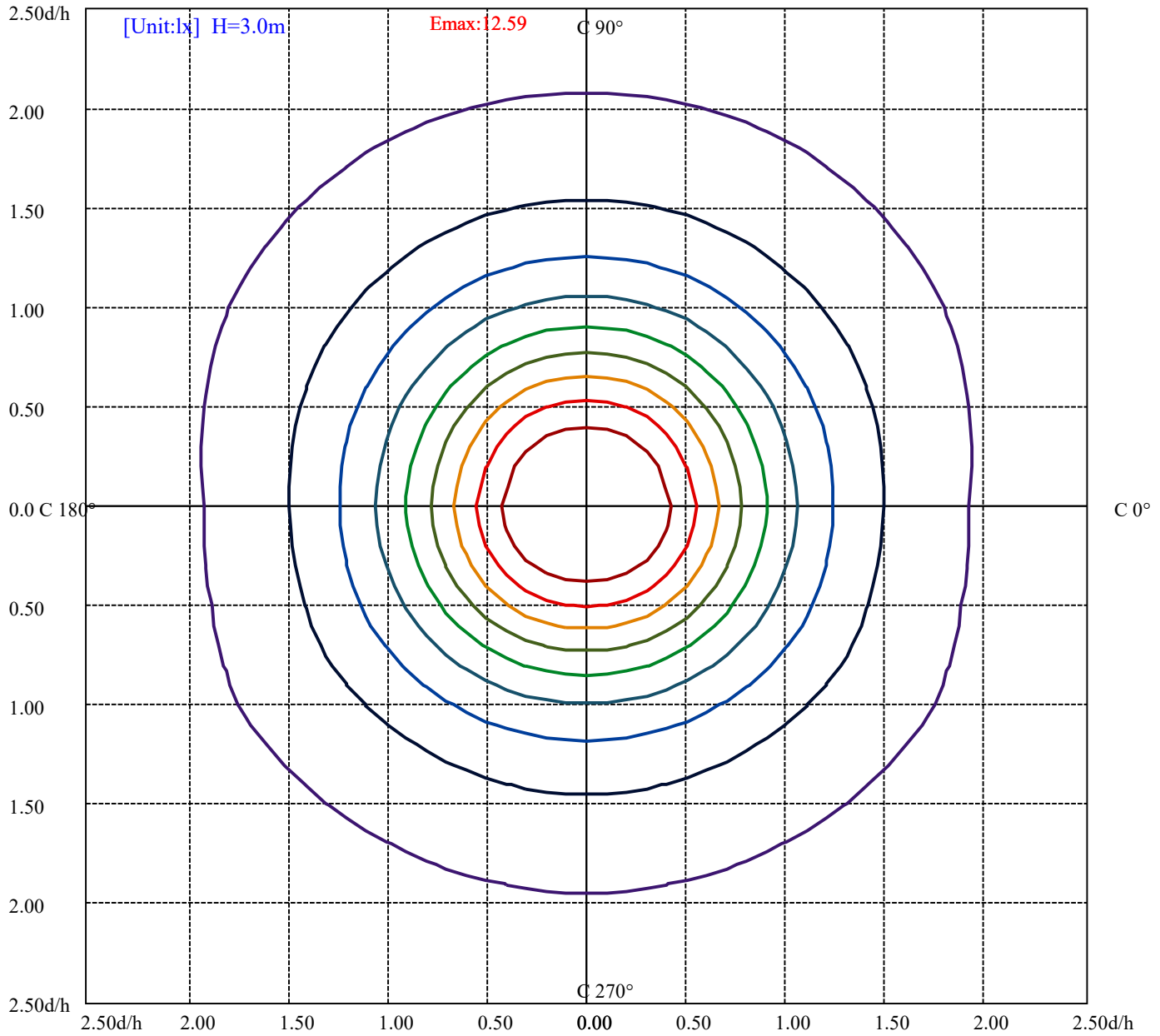
Beam Angle(50%Imax):C0/180Left:208.8 Right:118.8

:C90/270Left:176.3 Right:117.5

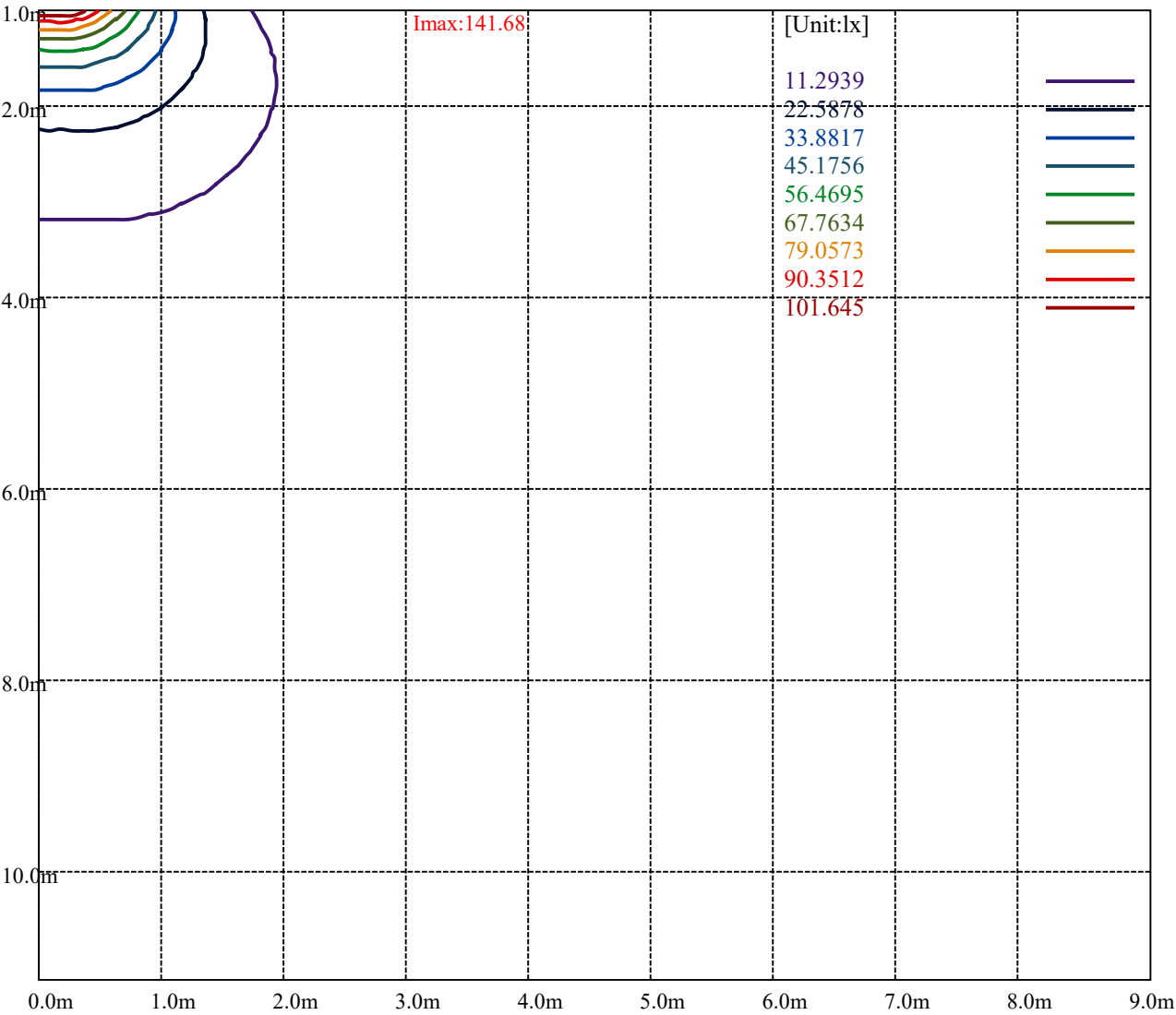


Max , Ave

Beam angle of C60 plane 345.25



(10%Emax) 1.258744	—
(20%Emax) 2.517489	—
(30%Emax) 3.776222	—
(40%Emax) 5.034967	—
(50%Emax) 6.293711	—
(60%Emax) 7.552455	—
(70%Emax) 8.811189	—
(80%Emax) 10.06993	—
(90%Emax) 11.32867	—



Luminance Table

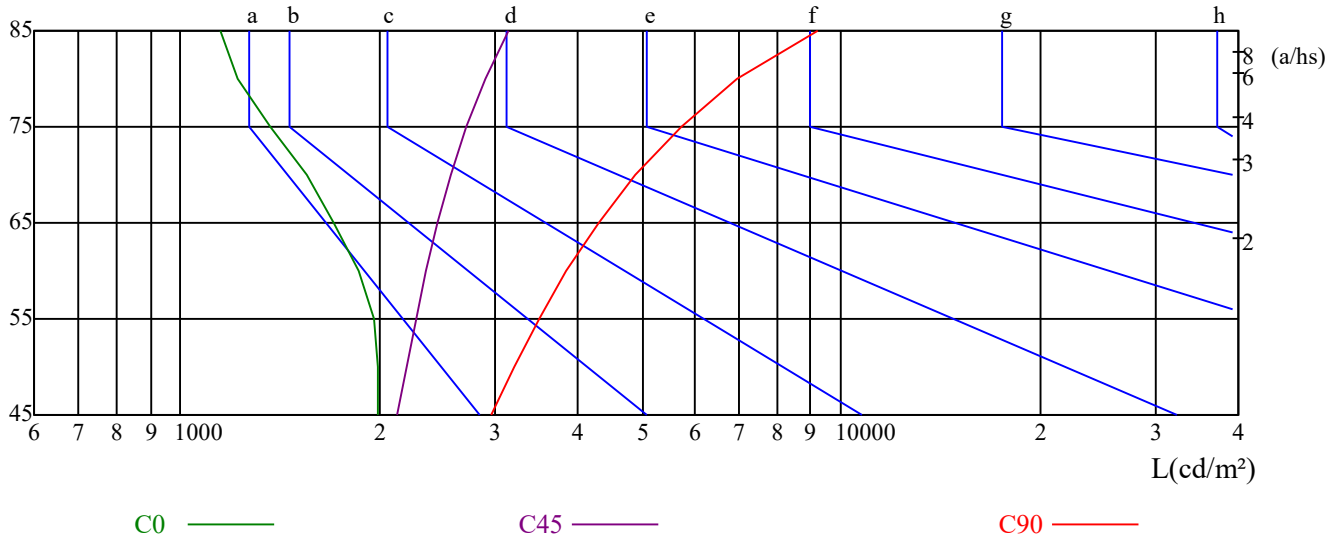
γ	45	50	55	60	65	70	75	80	85
C0	1988	1990	1967	1858	1710	1553	1372	1220	1149
C45	2130	2197	2278	2359	2452	2566	2710	2891	3147
C90	2957	3193	3494	3835	4292	4892	5724	6974	9232

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4377	5233	5404	5096	8047	8141	10703	22052	21498

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	112.24	108.56	112.24	118.68	123.28	127.88	131.56	134.32	136.16
15.0	112.24	108.56	112.24	118.68	123.28	127.88	131.56	134.32	136.16
30.0	111.32	108.56	113.16	118.68	124.20	128.80	132.48	135.24	138.00
45.0	111.32	109.48	114.08	119.60	124.20	128.80	133.40	137.08	138.00
60.0	111.32	109.48	115.00	120.52	125.12	129.72	133.40	136.16	138.92
75.0	109.48	109.48	114.08	120.52	125.12	128.80	132.48	136.16	138.00
90.0	108.56	109.48	115.00	120.52	125.12	129.72	133.40	135.24	137.08
105.0	108.56	111.32	116.84	121.44	126.96	130.64	134.32	137.08	138.92
120.0	108.56	111.32	117.76	123.28	127.88	132.48	135.24	138.00	138.92
135.0	110.40	112.24	118.68	124.20	127.88	132.48	135.24	138.00	138.92
150.0	107.64	112.24	118.68	124.20	131.56	132.48	135.24	137.08	138.92
165.0	107.64	113.16	118.68	124.20	128.80	132.48	135.24	137.08	138.00
180.0	112.24	118.68	124.20	129.72	133.40	137.08	138.92	139.84	140.76
195.0	112.24	117.76	123.28	128.80	132.48	136.16	138.00	138.92	139.84
210.0	111.32	117.76	123.28	127.88	131.56	134.32	136.16	137.08	138.00
225.0	111.32	116.84	122.36	126.96	130.64	133.40	134.32	136.16	135.24
240.0	111.32	115.92	121.44	125.12	128.80	130.64	132.48	132.48	132.48
255.0	109.48	114.08	118.68	123.28	126.04	127.88	129.72	129.72	129.72
270.0	108.56	112.24	116.84	121.44	124.20	126.96	127.88	127.88	127.88
285.0	108.56	112.24	116.84	121.44	124.20	126.96	127.88	128.80	128.80
300.0	108.56	111.32	115.92	120.52	121.44	126.96	128.80	129.72	129.72
315.0	110.40	110.40	115.00	119.60	124.20	126.96	128.80	130.64	131.56
330.0	107.64	109.48	114.08	119.60	123.28	126.96	129.72	131.56	132.48
345.0	107.64	108.56	114.08	119.60	124.20	127.88	130.64	131.56	133.40
360.0	112.24	108.56	112.24	118.68	123.28	127.88	131.56	134.32	136.16
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	137.08	137.08	136.16	126.96	115.00	100.28	84.64	69.00	56.12
15.0	138.00	138.00	138.92	135.24	127.88	119.60	111.32	103.04	93.84
30.0	138.92	139.84	139.84	139.84	138.00	136.16	133.40	129.72	125.12
45.0	139.84	140.76	141.68	140.76	139.84	138.00	136.16	133.40	129.72
60.0	139.84	140.76	141.68	141.68	141.68	139.84	138.00	135.24	132.48
75.0	138.92	139.84	139.84	139.84	138.92	137.08	135.24	131.56	129.72
90.0	138.00	138.92	139.84	138.92	138.00	136.16	133.40	129.72	126.96
105.0	139.84	140.76	140.76	140.76	139.84	138.00	135.24	132.48	129.72
120.0	140.76	141.68	141.68	140.76	139.84	137.08	134.32	131.56	128.80
135.0	139.84	140.76	140.76	139.84	137.08	134.32	130.64	126.96	125.12
150.0	139.84	139.84	138.92	135.24	129.72	123.28	116.84	110.40	105.80
165.0	138.92	138.92	133.40	122.36	110.40	97.52	84.64	72.68	67.16
180.0	140.76	136.16	126.96	113.16	96.60	81.88	66.24	55.20	50.60
195.0	140.76	139.84	134.32	126.96	116.84	105.80	92.92	80.96	72.68
210.0	138.00	138.00	136.16	134.32	128.80	121.44	110.40	98.44	88.32
225.0	135.24	134.32	131.56	127.88	122.36	116.84	105.80	96.60	86.48
240.0	130.64	129.72	126.96	123.28	118.68	112.24	103.96	95.68	89.24
255.0	127.88	126.04	124.20	120.52	116.84	110.40	104.88	102.12	92.00
270.0	126.04	125.12	123.28	122.36	115.00	110.40	104.88	98.44	92.92
285.0	126.96	126.04	124.20	120.52	116.84	111.32	103.96	96.60	90.16
300.0	129.72	128.80	126.04	123.28	118.68	113.16	105.80	96.60	87.40
315.0	131.56	131.56	129.72	127.88	123.28	117.76	109.48	98.44	87.40
330.0	133.40	133.40	132.48	129.72	124.20	115.92	105.80	92.92	80.96
345.0	133.40	133.40	128.80	119.60	107.64	95.68	82.80	69.00	58.88
360.0	137.08	137.08	136.16	126.96	115.00	100.28	84.64	69.00	56.12

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	48.76	48.76	55.20	65.32	77.28	86.48	94.76	101.20	103.96
15.0	89.24	90.16	94.76	103.04	108.56	113.16	116.84	117.76	116.84
30.0	122.36	123.28	126.96	129.72	132.48	133.40	132.48	131.56	127.88
45.0	127.88	129.72	132.48	135.24	136.16	137.08	135.24	132.48	129.72
60.0	131.56	133.40	136.16	137.08	138.00	137.08	135.24	132.48	129.72
75.0	128.80	130.64	132.48	134.32	135.24	135.24	134.32	132.48	129.72
90.0	126.96	128.80	131.56	133.40	134.32	134.32	133.40	131.56	128.80
105.0	130.64	132.48	135.24	136.16	136.16	136.16	134.32	132.48	128.80
120.0	130.64	133.40	136.16	138.00	138.00	137.08	134.32	130.64	126.96
135.0	126.04	128.80	131.56	134.32	135.24	134.32	132.48	130.64	126.04
150.0	104.88	109.48	115.92	121.44	126.04	127.88	127.88	126.04	121.44
165.0	65.32	70.84	78.20	87.40	94.76	101.20	106.72	109.48	107.64
180.0	51.52	56.12	66.24	78.20	88.32	96.60	102.12	103.96	102.12
195.0	65.32	60.72	61.64	65.32	70.84	76.36	80.96	83.72	83.72
210.0	77.28	66.24	62.56	57.96	55.20	54.28	55.20	57.96	60.72
225.0	77.28	67.16	60.72	56.12	53.36	52.44	52.44	53.36	56.12
240.0	82.80	76.36	74.52	65.32	62.56	61.64	61.64	61.64	62.56
255.0	87.40	80.96	75.44	72.68	71.76	71.76	70.84	69.92	69.92
270.0	89.24	82.80	77.28	75.44	74.52	73.60	73.60	72.68	71.76
285.0	84.64	77.28	71.76	67.16	64.40	62.56	61.64	61.64	61.64
300.0	79.12	69.00	62.56	57.96	54.28	52.44	52.44	53.36	55.20
315.0	75.44	63.48	57.04	54.28	50.60	48.76	48.76	49.68	50.60
330.0	69.00	61.64	58.88	58.88	60.72	64.40	68.08	70.84	71.76
345.0	52.44	51.52	53.36	61.64	69.92	79.12	86.48	92.92	94.76
360.0	48.76	48.76	55.20	65.32	77.28	86.48	94.76	101.20	103.96
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	103.04	100.28	97.52	94.76	92.92	91.08	78.20	57.96	63.48
15.0	113.16	109.48	104.88	101.20	97.52	94.76	87.40	67.16	59.80
30.0	122.36	117.76	113.16	107.64	103.04	97.52	91.08	78.20	57.96
45.0	125.12	120.52	115.92	110.40	104.88	98.44	92.92	85.56	69.00
60.0	126.04	121.44	116.84	111.32	105.80	99.36	92.92	85.56	79.12
75.0	125.12	121.44	115.92	110.40	104.88	98.44	92.00	85.56	78.20
90.0	125.12	120.52	115.00	109.48	103.96	98.44	91.08	84.64	77.28
105.0	124.20	120.52	115.00	109.48	103.04	97.52	90.16	83.72	76.36
120.0	123.28	118.68	114.08	108.56	102.12	95.68	89.24	81.88	75.44
135.0	121.44	116.84	111.32	105.80	100.28	93.84	87.40	80.96	74.52
150.0	115.92	111.32	106.72	101.20	95.68	90.16	84.64	78.20	72.68
165.0	104.88	101.20	98.44	95.68	92.00	88.32	82.80	76.36	70.84
180.0	99.36	96.60	94.76	92.00	90.16	75.44	52.44	57.96	56.12
195.0	83.72	82.80	80.96	77.28	76.36	74.52	52.44	54.28	49.68
210.0	63.48	64.40	65.32	68.08	69.00	58.88	51.52	50.60	51.52
225.0	61.64	68.08	72.68	74.52	75.44	72.68	57.96	51.52	51.52
240.0	64.40	68.08	71.76	74.52	74.52	75.44	65.32	51.52	43.24
255.0	69.92	70.84	71.76	72.68	70.84	69.00	59.80	39.56	42.32
270.0	70.84	71.76	72.68	73.60	72.68	69.00	53.36	29.44	51.52
285.0	62.56	65.32	68.08	70.84	72.68	68.08	47.84	43.24	63.48
300.0	58.88	63.48	69.00	72.68	75.44	67.16	48.76	53.36	65.32
315.0	53.36	57.96	61.64	63.48	64.40	60.72	54.28	59.80	67.16
330.0	71.76	70.84	69.92	67.16	65.32	63.48	59.80	65.32	69.92
345.0	92.92	91.08	88.32	84.64	83.72	79.12	72.68	71.76	72.68
360.0	103.04	100.28	97.52	94.76	92.92	91.08	78.20	57.96	63.48

Intensity data(cd)

Appendix Page: 12 Total:12

C/ $\gamma(^{\circ})$	180.0
0.0	54.28
15.0	63.48
30.0	57.96
45.0	51.52
60.0	59.80
75.0	72.68
90.0	71.76
105.0	70.84
120.0	70.84
135.0	69.92
150.0	68.08
165.0	68.08
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	54.28