
乐达凯

Client:

LumCAT: SYDV2107LAJUDLB

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 119.990

LampCAT:

Current(A): 0.168

Lamp flux(lm): 1284.0

Power (W): 19.990

Number of Lamps: 1

PF: 0.991

Length(mm): 520

Width(mm): 110

Phm Type: C

Height(mm): 80

Photometric Results

Lumens(lm): 1284.02, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 64.23

Central intensity(cd): 107.636, Maximum intensity(cd): 135.696

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(%): 43.13%

Down flux rate of lamp(%): 56.87%

Up flux rate of LUM(%): 43.13%

Down flux rate of LUM(%): 56.87%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 30.943%

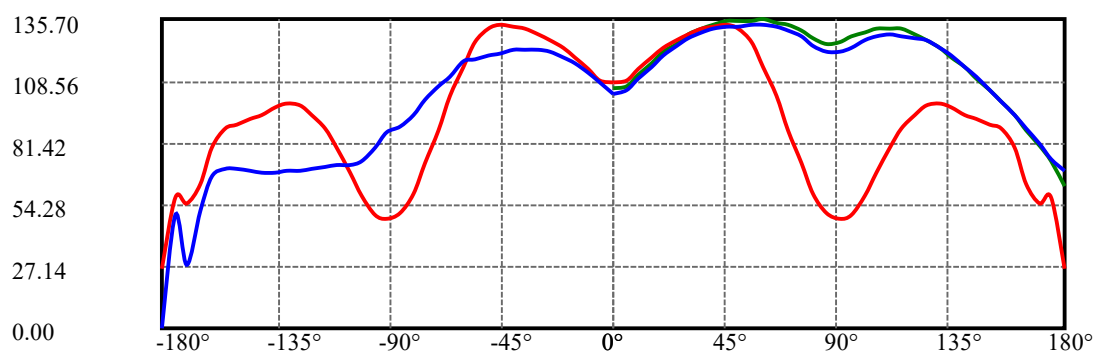
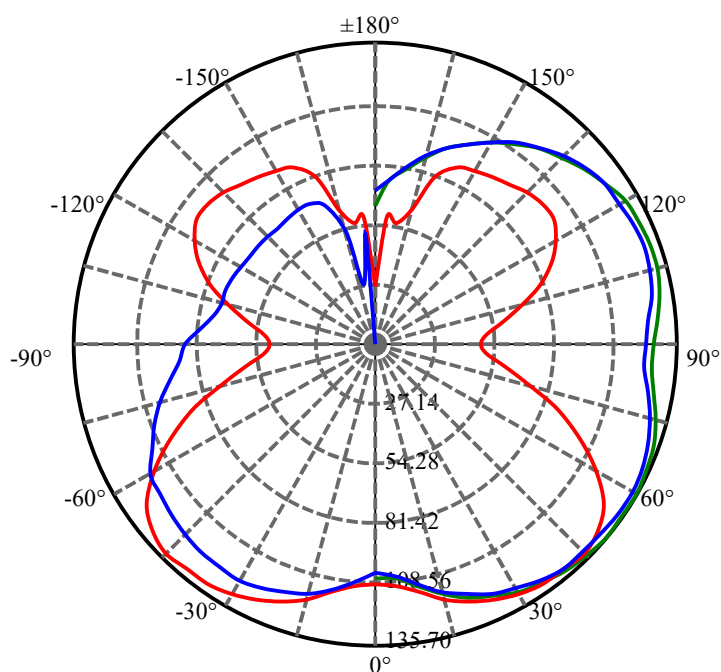
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	105.107	0.000	0	0.00%	0.00%
5.0	107.253	2.539	2.539	0.20%	0.20%
10.0	112.121	7.848	10.386	0.61%	0.81%
15.0	117.028	13.593	23.979	1.06%	1.87%
20.0	121.206	19.634	43.613	1.53%	3.40%
25.0	124.426	25.762	69.375	2.01%	5.40%
30.0	127.032	31.822	101.198	2.48%	7.88%
35.0	128.796	37.672	138.87	2.93%	10.82%
40.0	129.792	43.143	182.014	3.36%	14.18%
45.0	130.137	48.128	230.142	3.75%	17.92%
50.0	129.946	52.554	282.695	4.09%	22.02%
55.0	128.221	56.134	338.829	4.37%	26.39%
60.0	124.809	58.487	397.316	4.56%	30.94%
65.0	119.788	59.462	456.778	4.63%	35.57%
70.0	113.616	59.099	515.878	4.60%	40.18%
75.0	106.448	57.521	573.399	4.48%	44.66%
80.0	99.165	55.016	628.415	4.28%	48.94%
85.0	92.764	52.152	680.567	4.06%	53.00%
90.0	88.777	49.707	730.274	3.87%	56.87%
95.0	86.707	48.049	778.323	3.74%	60.62%
100.0	87.282	47.277	825.6	3.68%	64.30%
105.0	88.777	47.109	872.709	3.67%	67.97%
110.0	90.540	46.871	919.58	3.65%	71.62%
115.0	92.035	46.229	965.809	3.60%	75.22%
120.0	92.994	44.981	1010.79	3.50%	78.72%
125.0	93.185	43.035	1053.824	3.35%	82.07%
130.0	92.419	40.356	1094.181	3.14%	85.22%
135.0	91.000	37.062	1131.243	2.89%	88.10%
140.0	89.544	33.429	1164.673	2.60%	90.71%
145.0	88.010	29.624	1194.296	2.31%	93.01%
150.0	86.017	25.627	1219.923	2.00%	95.01%
155.0	83.717	21.480	1241.403	1.67%	96.68%
160.0	78.734	17.038	1258.441	1.33%	98.01%
165.0	69.266	12.197	1270.638	0.95%	98.96%
170.0	62.788	7.833	1278.472	0.61%	99.57%
175.0	61.408	4.443	1282.915	0.35%	99.91%
180.0	31.011	1.105	1284.019	0.09%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	101.20	7.88%	7.88%
0-40	182.01	14.18%	14.18%
0-60	397.32	30.94%	30.94%
0-90	730.27	56.87%	56.87%
0-120	1010.79	78.72%	78.72%
0-180	1284.02	100.00%	100.00%
60-90	332.96	25.93%	25.93%
90-120	280.52	21.85%	21.85%
90-130	363.91	28.34%	28.34%
90-150	489.65	38.13%	38.13%
90-180	552.64	43.04%	43.04%
0-121.91	1027.22	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	10.39
10-20	33.23
20-30	57.58
30-40	80.82
40-50	100.68
50-60	114.62
60-70	118.56
70-80	112.54
80-90	101.86
90-100	95.33
100-110	93.98
110-120	91.21
120-130	83.39
130-140	70.49
140-150	55.25
150-160	38.52
160-170	20.03
170-180	4.44



C60(Max): —————

C0/C180: —————

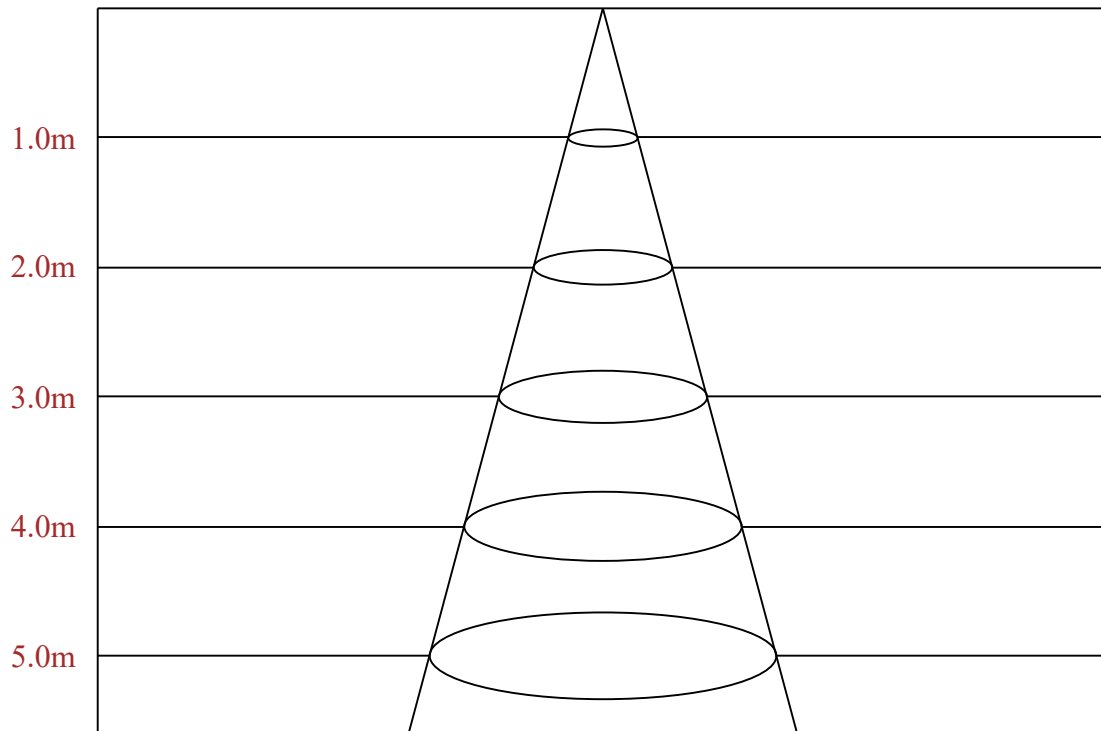
C90/C270: —————

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

:C90/270Left:0.0 Right:0.0

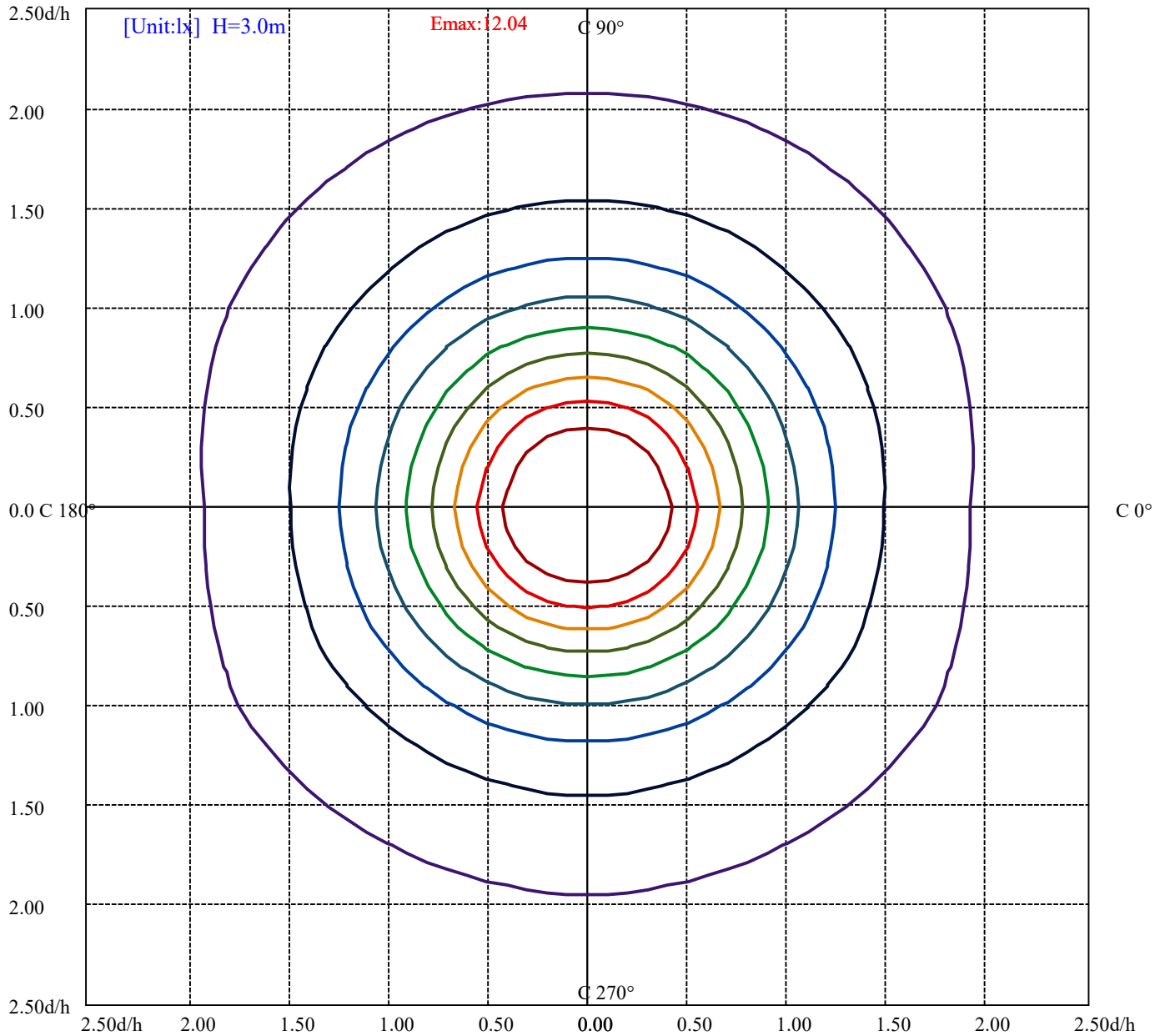
Beam Angle(50%Imax):C0/180Left:209.0 Right:119.0

:C90/270Left:176.3 Right:117.5

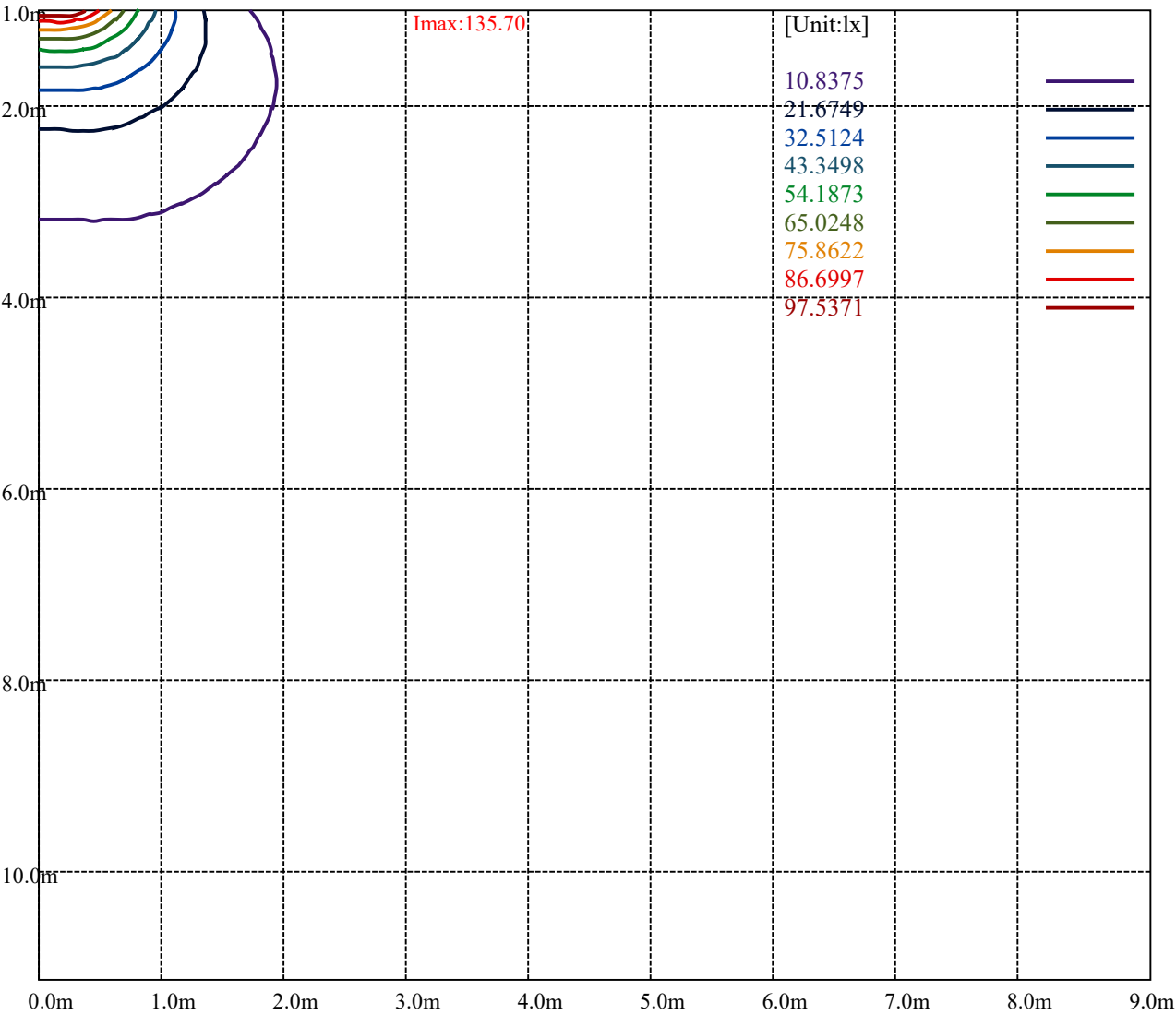


Max , Ave

Beam angle of C60 plane 345.25



(10%Emax) 1.204167	—
(20%Emax) 2.408333	—
(30%Emax) 3.6125	—
(40%Emax) 4.816667	—
(50%Emax) 6.020833	—
(60%Emax) 7.225	—
(70%Emax) 8.429167	—
(80%Emax) 9.633333	—
(90%Emax) 10.8375	—



Luminance Table

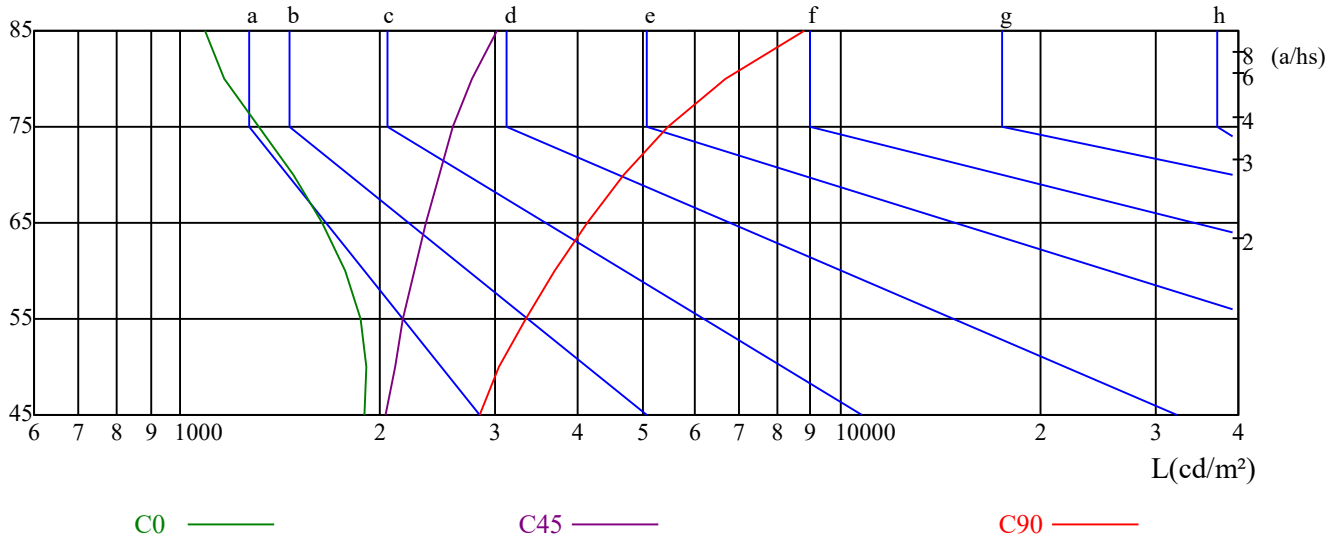
γ	45	50	55	60	65	70	75	80	85
C0	1903	1910	1877	1772	1643	1482	1313	1166	1090
C45	2046	2111	2174	2259	2354	2462	2588	2758	3011
C90	2839	3045	3333	3683	4121	4694	5487	6678	8831

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4205	5023	5195	4878	7706	7783	10149	21037	20576

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	107.64	103.96	107.64	113.16	118.68	122.36	126.04	128.80	129.72
15.0	106.72	103.04	107.64	113.16	118.68	122.36	126.04	128.80	130.64
30.0	106.72	103.96	107.64	114.08	118.68	123.28	126.96	129.72	131.56
45.0	106.72	104.88	109.48	115.00	119.60	123.28	126.96	130.64	132.48
60.0	106.72	104.88	109.48	115.00	119.60	124.20	127.88	130.64	132.48
75.0	104.88	104.88	109.48	115.00	119.60	123.28	126.96	129.72	131.56
90.0	103.04	104.88	109.48	115.00	119.60	124.20	126.96	129.72	131.56
105.0	103.96	106.72	111.32	115.92	121.44	125.12	127.88	130.64	132.48
120.0	103.96	106.72	112.24	117.76	122.36	126.04	129.72	131.56	133.40
135.0	105.80	107.64	113.16	118.68	122.36	126.96	129.72	131.56	133.40
150.0	102.12	107.64	113.16	118.68	126.04	126.04	129.72	131.56	132.48
165.0	103.04	107.64	113.16	118.68	123.28	126.04	128.80	130.64	131.56
180.0	107.64	114.08	119.60	124.20	127.88	130.64	132.48	134.32	134.32
195.0	106.72	113.16	118.68	123.28	126.96	129.72	132.48	133.40	134.32
210.0	106.72	112.24	117.76	122.36	126.04	128.80	130.64	131.56	131.56
225.0	106.72	112.24	116.84	121.44	125.12	126.96	128.80	129.72	129.72
240.0	106.72	111.32	115.92	119.60	123.28	125.12	126.04	126.96	126.96
255.0	104.88	109.48	114.08	117.76	120.52	122.36	124.20	124.20	124.20
270.0	103.04	107.64	112.24	115.92	118.68	121.44	122.36	122.36	122.36
285.0	103.96	107.64	111.32	115.92	118.68	121.44	122.36	123.28	123.28
300.0	103.96	106.72	111.32	115.00	115.92	121.44	123.28	124.20	124.20
315.0	105.80	104.88	110.40	115.00	118.68	121.44	123.28	125.12	126.04
330.0	102.12	103.96	109.48	114.08	118.68	121.44	124.20	126.04	126.96
345.0	103.04	103.96	109.48	114.08	118.68	122.36	125.12	126.04	127.88
360.0	107.64	103.96	107.64	113.16	118.68	122.36	126.04	128.80	129.72
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	130.64	131.56	129.72	121.44	110.40	95.68	80.96	66.24	53.36
15.0	131.56	132.48	132.48	128.80	122.36	114.08	106.72	98.44	90.16
30.0	133.40	133.40	133.40	133.40	131.56	130.64	126.96	124.20	119.60
45.0	134.32	135.24	135.24	135.24	134.32	132.48	129.72	126.96	124.20
60.0	134.32	135.24	135.24	136.16	135.24	134.32	132.48	129.72	126.96
75.0	132.48	133.40	134.32	134.32	133.40	131.56	128.80	126.04	124.20
90.0	132.48	132.48	133.40	133.40	132.48	130.64	127.88	124.20	121.44
105.0	133.40	134.32	135.24	134.32	133.40	131.56	129.72	126.96	124.20
120.0	135.24	135.24	135.24	135.24	133.40	131.56	128.80	125.12	123.28
135.0	134.32	135.24	134.32	133.40	131.56	128.80	125.12	121.44	119.60
150.0	133.40	133.40	133.40	129.72	124.20	117.76	111.32	105.80	101.20
165.0	132.48	132.48	126.96	117.76	105.80	93.84	80.96	69.92	64.40
180.0	135.24	130.64	121.44	107.64	92.92	78.20	63.48	52.44	47.84
195.0	134.32	134.32	128.80	121.44	112.24	101.20	88.32	77.28	69.00
210.0	132.48	132.48	130.64	127.88	123.28	115.92	105.80	93.84	84.64
225.0	128.80	128.80	126.04	122.36	117.76	111.32	101.20	92.00	82.80
240.0	125.12	124.20	121.44	117.76	113.16	106.72	100.28	92.00	85.56
255.0	122.36	120.52	118.68	115.00	111.32	105.80	100.28	98.44	88.32
270.0	120.52	119.60	117.76	116.84	110.40	105.80	100.28	93.84	88.32
285.0	121.44	120.52	118.68	115.00	111.32	105.80	99.36	92.92	86.48
300.0	124.20	123.28	120.52	117.76	114.08	108.56	101.20	92.92	83.72
315.0	126.04	125.12	124.20	122.36	118.68	112.24	104.88	93.84	83.72
330.0	126.96	126.96	126.96	124.20	118.68	111.32	101.20	89.24	77.28
345.0	127.88	127.88	123.28	114.08	103.04	91.08	79.12	66.24	56.12
360.0	130.64	131.56	129.72	121.44	110.40	95.68	80.96	66.24	53.36

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	46.00	46.92	53.36	62.56	73.60	82.80	90.16	96.60	99.36
15.0	84.64	85.56	91.08	98.44	103.96	108.56	111.32	113.16	112.24
30.0	117.76	118.68	121.44	124.20	126.96	127.88	126.96	125.12	122.36
45.0	122.36	124.20	126.96	128.80	130.64	130.64	129.72	126.96	124.20
60.0	126.04	127.88	129.72	131.56	131.56	131.56	129.72	126.96	124.20
75.0	123.28	125.12	126.96	128.80	129.72	128.80	128.80	126.96	124.20
90.0	121.44	123.28	126.04	127.88	128.80	127.88	126.96	126.04	123.28
105.0	125.12	126.96	129.72	130.64	130.64	130.64	128.80	126.04	123.28
120.0	125.12	127.88	129.72	131.56	131.56	130.64	128.80	125.12	121.44
135.0	120.52	123.28	126.04	128.80	129.72	128.80	126.96	125.12	120.52
150.0	100.28	104.88	111.32	116.84	120.52	122.36	122.36	120.52	115.92
165.0	62.56	68.08	74.52	83.72	91.08	97.52	102.12	103.96	103.04
180.0	49.68	53.36	63.48	74.52	84.64	92.92	97.52	99.36	97.52
195.0	62.56	57.96	58.88	62.56	68.08	72.68	77.28	80.04	80.04
210.0	73.60	63.48	59.80	55.20	52.44	52.44	53.36	55.20	57.96
225.0	74.52	64.40	57.96	53.36	50.60	49.68	49.68	51.52	54.28
240.0	80.04	72.68	70.84	62.56	59.80	58.88	58.88	58.88	59.80
255.0	83.72	77.28	71.76	69.92	69.00	68.08	68.08	67.16	67.16
270.0	85.56	79.12	73.60	71.76	71.76	70.84	69.92	69.00	69.00
285.0	80.96	74.52	69.00	64.40	61.64	59.80	59.80	58.88	58.88
300.0	75.44	66.24	59.80	55.20	52.44	50.60	50.60	50.60	52.44
315.0	72.68	60.72	55.20	51.52	48.76	46.92	46.00	46.92	48.76
330.0	66.24	58.88	56.12	57.04	57.96	61.64	65.32	68.08	68.08
345.0	50.60	49.68	51.52	58.88	67.16	76.36	82.80	88.32	90.16
360.0	46.00	46.92	53.36	62.56	73.60	82.80	90.16	96.60	99.36
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	98.44	95.68	93.84	91.08	89.24	87.40	75.44	55.20	60.72
15.0	108.56	103.96	100.28	96.60	93.84	90.16	83.72	64.40	57.04
30.0	117.76	112.24	107.64	103.04	98.44	92.92	87.40	75.44	55.20
45.0	119.60	115.00	110.40	105.80	100.28	94.76	88.32	81.88	66.24
60.0	120.52	115.92	111.32	106.72	101.20	94.76	88.32	81.88	75.44
75.0	119.60	115.92	111.32	105.80	100.28	94.76	88.32	81.88	74.52
90.0	119.60	115.00	110.40	104.88	99.36	93.84	87.40	80.96	74.52
105.0	119.60	115.00	110.40	104.88	99.36	92.92	86.48	80.04	73.60
120.0	117.76	113.16	108.56	103.04	97.52	92.00	85.56	78.20	71.76
135.0	115.92	111.32	105.80	101.20	95.68	89.24	82.80	77.28	70.84
150.0	111.32	106.72	102.12	96.60	92.00	86.48	80.96	75.44	69.00
165.0	100.28	96.60	93.84	91.08	88.32	83.72	79.12	73.60	68.08
180.0	94.76	92.00	90.16	88.32	86.48	71.76	50.60	55.20	54.28
195.0	80.04	79.12	78.20	73.60	72.68	71.76	49.68	51.52	47.84
210.0	60.72	61.64	62.56	65.32	65.32	56.12	49.68	48.76	48.76
225.0	58.88	65.32	69.92	71.76	72.68	69.92	56.12	49.68	49.68
240.0	61.64	65.32	68.08	71.76	71.76	71.76	62.56	48.76	41.40
255.0	66.24	67.16	68.08	69.00	68.08	66.24	57.04	37.72	40.48
270.0	68.08	68.08	69.00	69.92	69.92	66.24	51.52	27.60	49.68
285.0	59.80	62.56	65.32	68.08	69.92	65.32	46.00	41.40	60.72
300.0	56.12	60.72	66.24	69.92	72.68	63.48	46.92	51.52	62.56
315.0	51.52	55.20	58.88	60.72	61.64	57.96	51.52	57.04	64.40
330.0	68.08	68.08	66.24	64.40	62.56	60.72	57.04	62.56	67.16
345.0	89.24	87.40	83.72	80.96	80.04	75.44	69.92	69.00	69.92
360.0	98.44	95.68	93.84	91.08	89.24	87.40	75.44	55.20	60.72

Intensity data(cd)

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C/ γ (°)	180.0
0.0	51.52
15.0	60.72
30.0	55.20
45.0	48.76
60.0	57.96
75.0	69.00
90.0	69.00
105.0	68.08
120.0	67.16
135.0	66.24
150.0	65.32
165.0	65.32
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	51.52