
乐达凯

Client:

LumCAT: SYDV2107LAJUDBK

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 119.990

LampCAT:

Current(A): 0.171

Lamp flux(lm): 1264.1

Power (W): 20.280

Number of Lamps: 1

PF: 0.991

Length(mm): 520

Width(mm): 110

Phm Type: C

Height(mm): 80

Photometric Results

Lumens(lm): 1264.09, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 62.33

Central intensity(cd): 112.236, Maximum intensity(cd): 136.616

Angle of maximum intensity: C=45.0 γ =45.0

Beam Angle(50%Imax): [C0/180]Total=323.0

[C90/270]Total=292.5

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

[C90/270]Total=N.A.

Maximum s/h(1/2): C0_180=1.79 C90_270=1.81

Maximum s/h(1/4): C0_180=1.90 C90_270=1.95

Up flux rate of lamp(%): 40.79%

Down flux rate of lamp(%): 59.21%

Up flux rate of LUM(%): 40.79%

Down flux rate of LUM(%): 59.21%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 32.543%

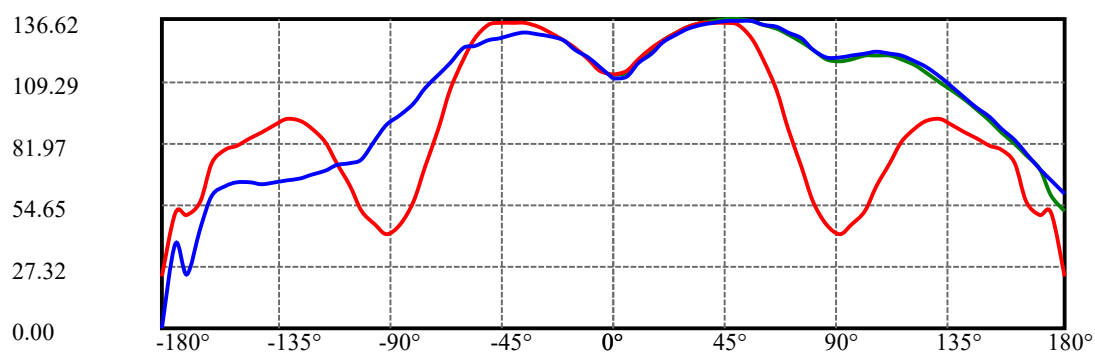
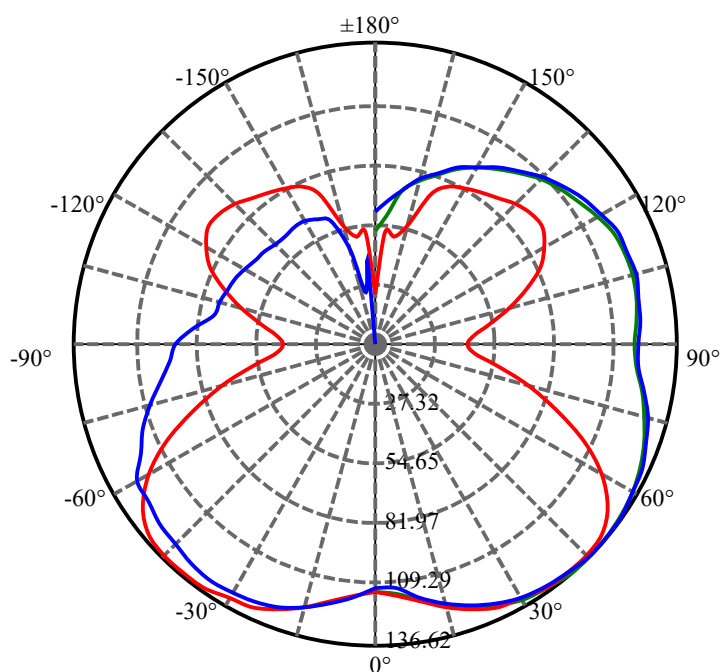
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	111.470	0.000	0	0.00%	0.00%
5.0	113.961	2.695	2.695	0.21%	0.21%
10.0	118.791	8.326	11.021	0.66%	0.87%
15.0	123.391	14.366	25.387	1.14%	2.01%
20.0	127.224	20.654	46.042	1.63%	3.64%
25.0	130.367	27.017	73.058	2.14%	5.78%
30.0	132.476	33.263	106.321	2.63%	8.41%
35.0	133.702	39.197	145.518	3.10%	11.51%
40.0	134.316	44.717	190.234	3.54%	15.05%
45.0	133.971	49.675	239.91	3.93%	18.98%
50.0	133.319	54.010	293.919	4.27%	23.25%
55.0	131.364	57.551	351.47	4.55%	27.80%
60.0	127.761	59.896	411.366	4.74%	32.54%
65.0	122.394	60.813	472.179	4.81%	37.35%
70.0	115.840	60.322	532.502	4.77%	42.13%
75.0	107.905	58.483	590.985	4.63%	46.75%
80.0	99.625	55.529	646.514	4.39%	51.14%
85.0	92.879	52.308	698.822	4.14%	55.28%
90.0	88.355	49.623	748.445	3.93%	59.21%
95.0	85.289	47.545	795.99	3.76%	62.97%
100.0	84.599	46.163	842.153	3.65%	66.62%
105.0	84.637	45.283	887.436	3.58%	70.20%
110.0	85.136	44.376	931.812	3.51%	73.71%
115.0	85.710	43.259	975.071	3.42%	77.14%
120.0	85.710	41.673	1016.744	3.30%	80.43%
125.0	85.442	39.561	1056.305	3.13%	83.56%
130.0	84.331	36.914	1093.22	2.92%	86.48%
135.0	82.529	33.716	1126.936	2.67%	89.15%
140.0	80.689	30.221	1157.157	2.39%	91.54%
145.0	79.117	26.662	1183.82	2.11%	93.65%
150.0	77.392	23.047	1206.867	1.82%	95.47%
155.0	75.016	19.287	1226.154	1.53%	97.00%
160.0	70.684	15.281	1241.435	1.21%	98.21%
165.0	61.753	10.915	1252.35	0.86%	99.07%
170.0	55.083	6.931	1259.281	0.55%	99.62%
175.0	52.668	3.855	1263.135	0.30%	99.92%
180.0	26.909	0.951	1264.087	0.08%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	106.32	8.41%	8.41%
0-40	190.23	15.05%	15.05%
0-60	411.37	32.54%	32.54%
0-90	748.45	59.21%	59.21%
0-120	1016.74	80.43%	80.43%
0-180	1264.09	100.00%	100.00%
60-90	337.08	26.67%	26.67%
90-120	268.30	21.22%	21.22%
90-130	344.77	27.27%	27.27%
90-150	458.42	36.26%	36.27%
90-180	514.69	40.72%	40.72%
0-119.34	1011.27	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	11.02
10-20	35.02
20-30	60.28
30-40	83.91
40-50	103.69
50-60	117.45
60-70	121.14
70-80	114.01
80-90	101.93
90-100	93.71
100-110	89.66
110-120	84.93
120-130	76.48
130-140	63.94
140-150	49.71
150-160	34.57
160-170	17.85
170-180	3.85



C45(Max): —————

C0/C180: —————

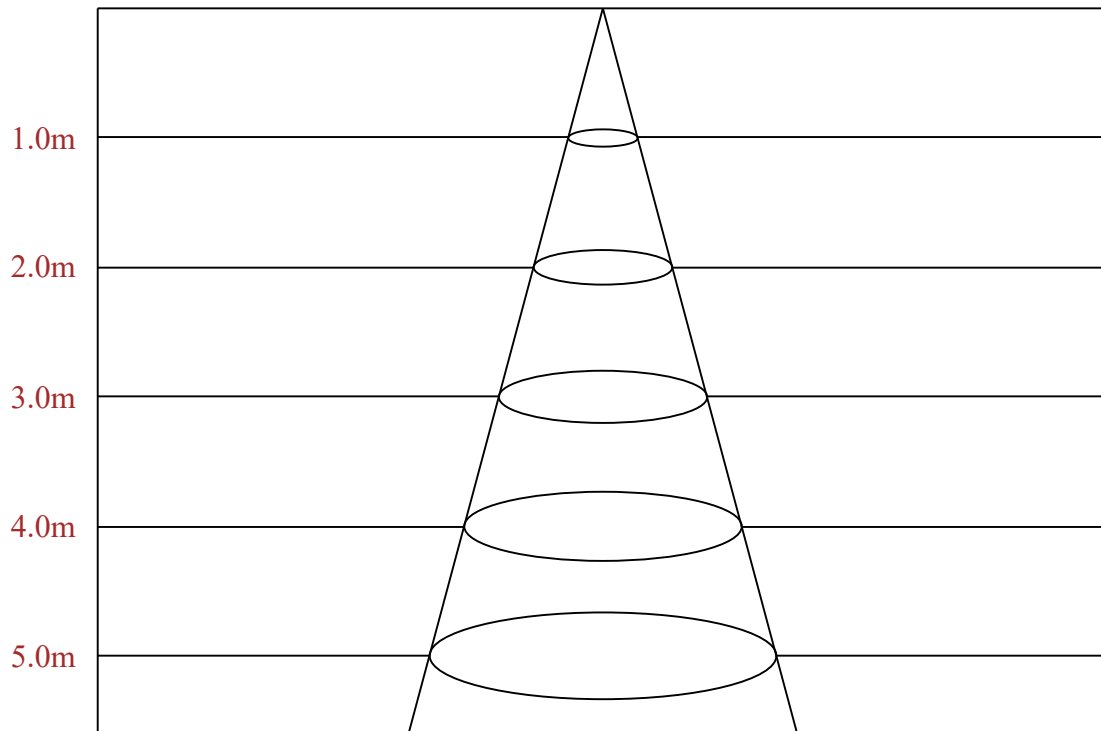
C90/C270: —————

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

:C90/270Left:0.0 Right:0.0

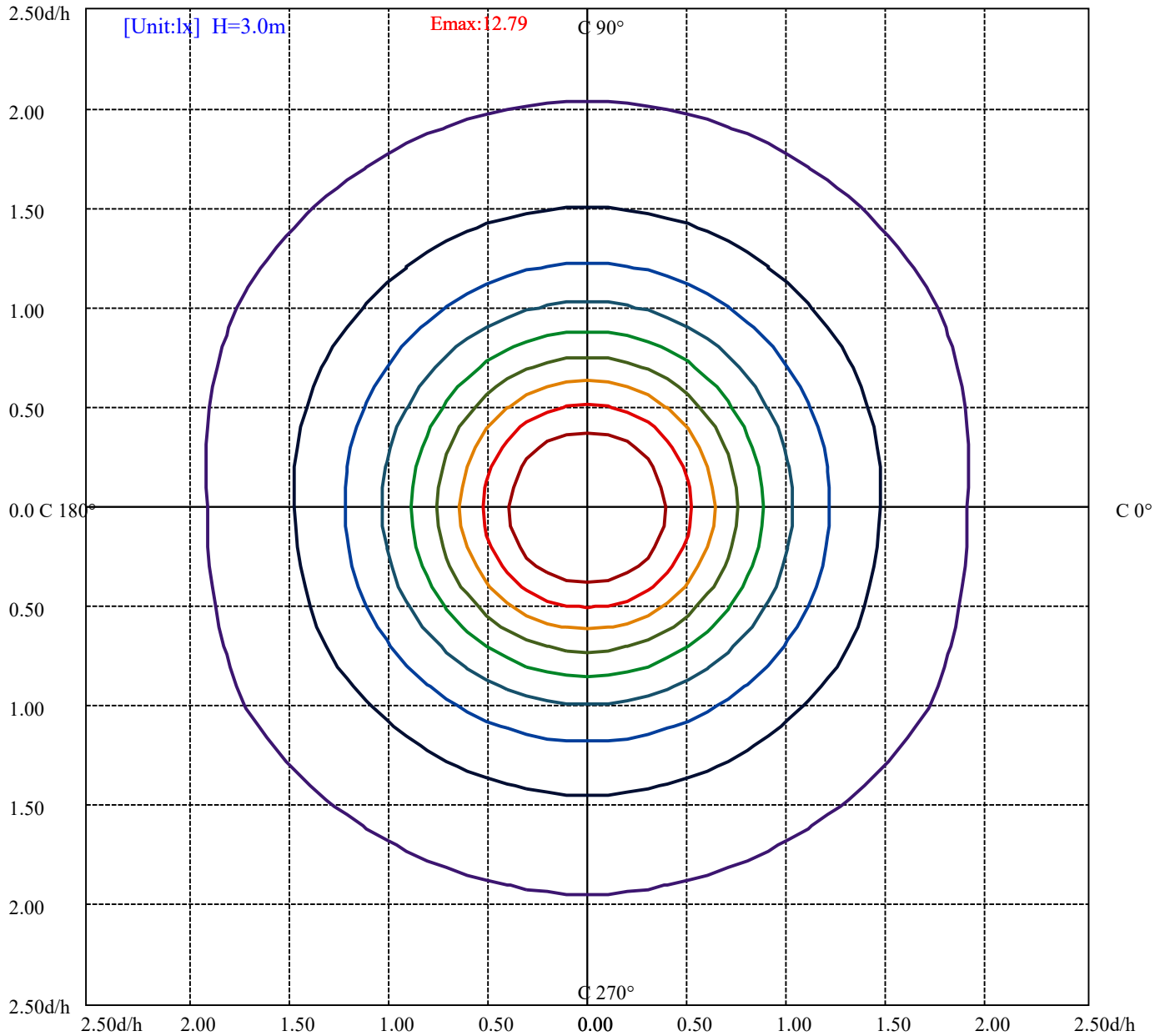
Beam Angle(50%Imax):C0/180Left:206.5 Right:116.5

:C90/270Left:175.0 Right:117.5

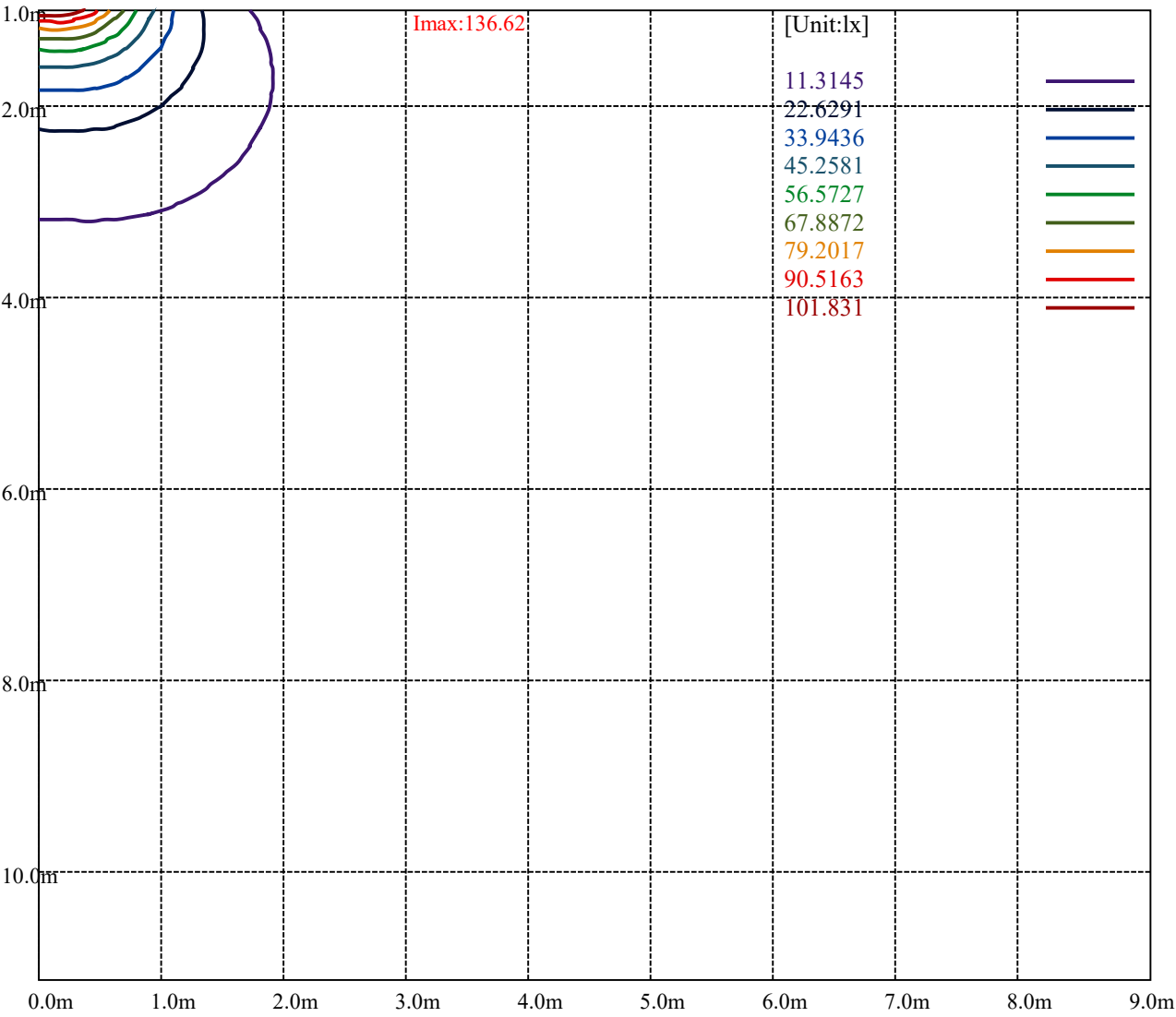


Max , Ave

Beam angle of C45 plane 274.38



(10%Emax) 1.278589	—
(20%Emax) 2.557178	—
(30%Emax) 3.835767	—
(40%Emax) 5.114356	—
(50%Emax) 6.392933	—
(60%Emax) 7.671522	—
(70%Emax) 8.950111	—
(80%Emax) 10.2287	—
(90%Emax) 11.50733	—



Luminance Table

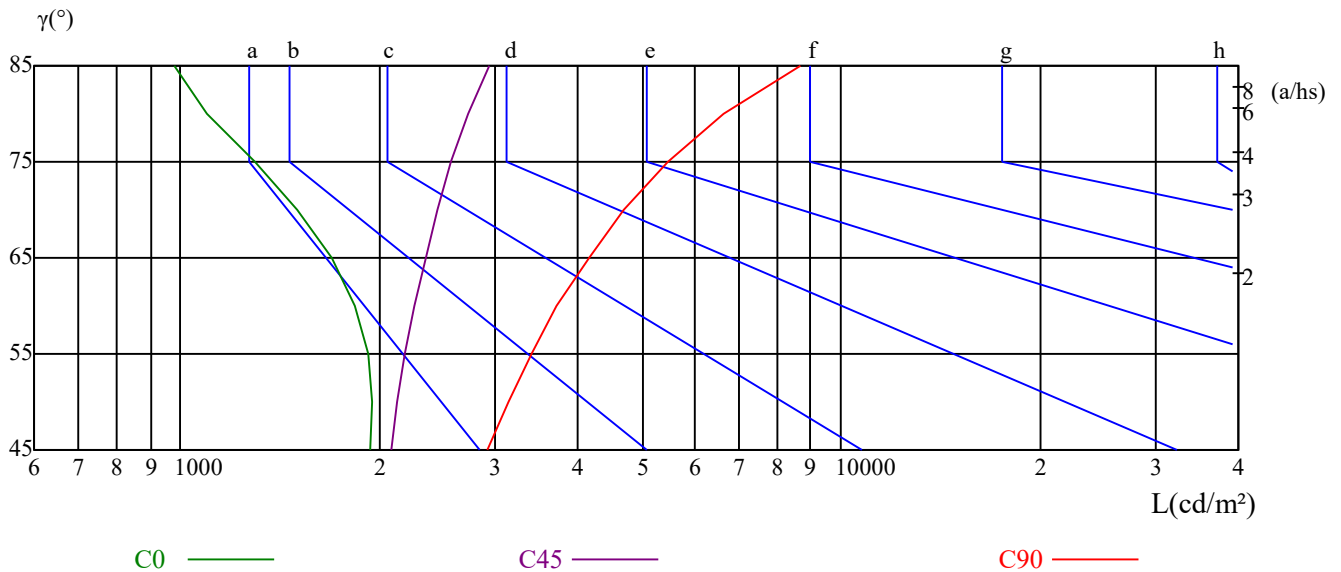
γ	45	50	55	60	65	70	75	80	85
C0	1936	1950	1919	1836	1695	1506	1297	1093	981
C45	2081	2132	2189	2259	2346	2445	2560	2727	2931
C90	2917	3129	3402	3708	4149	4694	5487	6628	8697

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4338	5176	5252	4816	7892	7845	9135	21406	20530

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



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	1.02	1.02	1.02	0.88	0.88	0.88	0.76	0.76	0.76	0.65	0.65	0.65	0.59
1	0.90	0.84	0.79	0.83	0.79	0.74	0.72	0.68	0.64	0.61	0.58	0.55	0.51	0.49	0.47	0.42
2	0.76	0.68	0.61	0.71	0.64	0.58	0.60	0.55	0.50	0.51	0.47	0.43	0.42	0.39	0.36	0.32
3	0.65	0.56	0.49	0.61	0.53	0.46	0.52	0.45	0.40	0.44	0.39	0.34	0.36	0.32	0.29	0.25
4	0.57	0.48	0.40	0.53	0.45	0.38	0.45	0.38	0.33	0.38	0.33	0.28	0.31	0.27	0.24	0.20
5	0.50	0.41	0.34	0.47	0.38	0.32	0.40	0.33	0.28	0.34	0.28	0.24	0.28	0.23	0.20	0.17
6	0.45	0.35	0.29	0.42	0.33	0.27	0.36	0.29	0.24	0.30	0.25	0.20	0.25	0.20	0.17	0.14
7	0.40	0.31	0.25	0.37	0.29	0.23	0.32	0.25	0.20	0.27	0.22	0.18	0.23	0.18	0.15	0.12
8	0.36	0.28	0.22	0.34	0.26	0.20	0.29	0.23	0.18	0.25	0.19	0.15	0.21	0.16	0.13	0.10
9	0.33	0.25	0.19	0.31	0.23	0.18	0.27	0.20	0.16	0.23	0.17	0.14	0.19	0.15	0.11	0.09
10	0.30	0.22	0.17	0.28	0.21	0.16	0.24	0.18	0.14	0.21	0.16	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	111.32	116.84	123.28	128.80	133.40	137.08	140.76	142.60
15.0	112.24	112.24	116.84	123.28	128.80	133.40	137.08	140.76	142.60
30.0	112.24	111.32	116.84	123.28	128.80	133.40	137.08	139.84	141.68
45.0	112.24	112.24	117.76	123.28	128.80	133.40	137.08	139.84	141.68
60.0	112.24	112.24	117.76	123.28	127.88	132.48	136.16	138.92	140.76
75.0	111.32	112.24	116.84	122.36	126.96	130.64	134.32	136.16	138.00
90.0	110.40	111.32	116.84	121.44	126.04	129.72	132.48	134.32	135.24
105.0	110.40	112.24	116.84	121.44	125.12	128.80	130.64	132.48	133.40
120.0	111.32	114.08	117.76	122.36	126.04	128.80	130.64	131.56	132.48
135.0	112.24	114.08	117.76	122.36	125.12	127.88	129.72	130.64	130.64
150.0	110.40	113.16	117.76	121.44	126.04	126.96	128.80	129.72	128.80
165.0	110.40	114.08	117.76	121.44	124.20	126.96	127.88	127.88	127.88
180.0	112.24	116.84	120.52	124.20	126.04	128.80	128.80	128.80	127.88
195.0	112.24	116.84	121.44	124.20	126.96	127.88	128.80	128.80	128.80
210.0	112.24	116.84	120.52	124.20	126.96	127.88	128.80	128.80	127.88
225.0	112.24	116.84	121.44	124.20	126.96	128.80	129.72	128.80	128.80
240.0	112.24	116.84	121.44	125.12	127.88	129.72	129.72	129.72	128.80
255.0	111.32	115.92	120.52	124.20	126.96	128.80	129.72	128.80	128.80
270.0	110.40	115.00	119.60	123.28	126.96	128.80	129.72	130.64	129.72
285.0	110.40	114.08	119.60	123.28	126.96	129.72	131.56	131.56	132.48
300.0	111.32	115.00	120.52	125.12	126.04	131.56	134.32	134.32	135.24
315.0	112.24	114.08	119.60	125.12	129.72	133.40	135.24	137.08	138.00
330.0	110.40	113.16	118.68	124.20	128.80	133.40	136.16	138.92	139.84
345.0	110.40	113.16	119.60	125.12	130.64	134.32	138.00	139.84	141.68
360.0	112.24	111.32	116.84	123.28	128.80	133.40	137.08	140.76	142.60
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	143.52	143.52	139.84	130.64	116.84	99.36	81.88	65.32	52.44
15.0	143.52	144.44	142.60	136.16	126.96	116.84	103.96	92.92	83.72
30.0	143.52	143.52	143.52	143.52	140.76	137.08	132.48	126.04	120.52
45.0	142.60	143.52	143.52	142.60	140.76	138.92	135.24	132.48	127.88
60.0	141.68	141.68	141.68	140.76	139.84	137.08	134.32	130.64	126.96
75.0	138.92	138.92	138.92	138.00	137.08	134.32	131.56	126.96	123.28
90.0	136.16	136.16	136.16	134.32	133.40	130.64	127.88	123.28	119.60
105.0	133.40	133.40	132.48	131.56	129.72	126.96	124.20	119.60	116.84
120.0	131.56	131.56	130.64	128.80	126.96	123.28	119.60	115.92	113.16
135.0	130.64	129.72	127.88	126.04	124.20	120.52	116.84	113.16	109.48
150.0	127.88	126.96	126.04	124.20	119.60	115.00	109.48	103.04	99.36
165.0	126.96	126.04	123.28	115.92	106.72	96.60	85.56	74.52	68.08
180.0	126.96	124.20	116.84	106.72	92.92	77.28	60.72	46.00	38.64
195.0	126.96	126.04	120.52	113.16	103.96	93.84	80.96	69.00	61.64
210.0	126.96	125.12	123.28	120.52	114.08	107.64	97.52	86.48	78.20
225.0	126.96	125.12	123.28	119.60	114.08	107.64	98.44	89.24	80.04
240.0	126.96	125.12	122.36	118.68	114.08	107.64	99.36	92.00	84.64
255.0	126.96	125.12	122.36	119.60	115.00	109.48	102.12	95.68	90.16
270.0	127.88	126.96	125.12	124.20	116.84	112.24	105.80	99.36	93.84
285.0	130.64	129.72	127.88	124.20	119.60	114.08	107.64	100.28	92.92
300.0	134.32	133.40	131.56	127.88	123.28	116.84	109.48	100.28	92.00
315.0	138.00	137.08	135.24	133.40	128.80	122.36	114.08	103.04	92.00
330.0	140.76	140.76	139.84	137.08	132.48	126.04	115.92	103.96	92.00
345.0	141.68	141.68	138.00	128.80	119.60	108.56	94.76	81.88	71.76
360.0	143.52	143.52	139.84	130.64	116.84	99.36	81.88	65.32	52.44

乐达凯 SYDV2107LAJUDBK

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	45.08	47.84	53.36	65.32	76.36	87.40	94.76	99.36	101.20
15.0	79.12	81.88	86.48	92.00	97.52	103.04	106.72	108.56	108.56
30.0	116.84	117.76	121.44	124.20	125.12	125.12	124.20	121.44	116.84
45.0	126.04	126.96	128.80	128.80	128.80	126.96	124.20	120.52	116.84
60.0	125.12	126.04	126.96	127.88	126.96	126.04	123.28	119.60	115.00
75.0	122.36	123.28	124.20	125.12	125.12	123.28	120.52	117.76	113.16
90.0	119.60	120.52	121.44	122.36	121.44	120.52	117.76	115.00	111.32
105.0	115.92	116.84	118.68	118.68	118.68	116.84	115.00	112.24	108.56
120.0	113.16	114.08	115.00	115.92	115.00	114.08	111.32	108.56	104.88
135.0	109.48	111.32	112.24	112.24	112.24	111.32	107.64	104.88	101.20
150.0	97.52	100.28	103.04	104.88	105.80	105.80	103.96	102.12	98.44
165.0	65.32	67.16	71.76	76.36	80.04	84.64	87.40	89.24	89.24
180.0	37.72	43.24	50.60	60.72	69.92	77.28	81.88	84.64	83.72
195.0	55.20	50.60	50.60	53.36	57.96	62.56	67.16	71.76	72.68
210.0	68.08	57.04	52.44	49.68	46.92	46.92	46.92	48.76	51.52
225.0	70.84	58.88	51.52	46.00	42.32	39.56	39.56	39.56	42.32
240.0	79.12	70.84	69.00	57.96	54.28	51.52	50.60	50.60	51.52
255.0	85.56	78.20	71.76	67.16	64.40	62.56	60.72	59.80	58.88
270.0	90.16	82.80	74.52	72.68	71.76	69.92	68.08	66.24	65.32
285.0	88.32	80.04	72.68	68.08	65.32	62.56	60.72	59.80	58.88
300.0	84.64	75.44	68.08	61.64	57.04	54.28	53.36	53.36	53.36
315.0	80.04	67.16	59.80	54.28	49.68	47.84	46.92	46.92	47.84
330.0	80.04	68.08	64.40	61.64	59.80	59.80	61.64	62.56	64.40
345.0	65.32	60.72	61.64	64.40	70.84	77.28	82.80	87.40	88.32
360.0	45.08	47.84	53.36	65.32	76.36	87.40	94.76	99.36	101.20
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	98.44	94.76	91.08	87.40	84.64	80.96	65.32	50.60	53.36
15.0	104.88	100.28	95.68	92.00	88.32	84.64	74.52	53.36	53.36
30.0	111.32	105.80	101.20	96.60	91.08	85.56	80.04	66.24	47.84
45.0	112.24	107.64	103.04	97.52	92.00	85.56	80.04	73.60	56.12
60.0	111.32	106.72	102.12	97.52	92.00	85.56	79.12	72.68	64.40
75.0	108.56	103.96	100.28	95.68	90.16	84.64	78.20	71.76	65.32
90.0	106.72	102.12	97.52	92.92	88.32	82.80	77.28	70.84	65.32
105.0	103.96	99.36	95.68	91.08	86.48	80.96	75.44	69.92	64.40
120.0	101.20	96.60	92.92	89.24	84.64	80.04	74.52	69.00	62.56
135.0	98.44	94.76	91.08	86.48	81.88	77.28	72.68	67.16	61.64
150.0	94.76	91.08	87.40	83.72	79.12	75.44	70.84	65.32	60.72
165.0	86.48	83.72	80.96	79.12	76.36	73.60	69.00	64.40	59.80
180.0	80.96	78.20	76.36	74.52	73.60	64.40	46.00	48.76	47.84
195.0	71.76	71.76	69.00	67.16	66.24	63.48	45.08	47.84	41.40
210.0	54.28	54.28	54.28	53.36	55.20	48.76	46.00	45.08	38.64
225.0	45.08	49.68	54.28	57.96	57.04	57.04	50.60	44.16	40.48
240.0	52.44	55.20	57.96	61.64	62.56	60.72	54.28	43.24	34.96
255.0	57.96	57.96	58.88	59.80	59.80	58.88	51.52	34.04	29.44
270.0	64.40	63.48	64.40	64.40	62.56	58.88	44.16	23.92	37.72
285.0	58.88	59.80	60.72	62.56	61.64	58.88	43.24	32.20	48.76
300.0	55.20	57.04	61.64	65.32	67.16	60.72	40.48	42.32	53.36
315.0	50.60	54.28	58.88	61.64	62.56	57.04	46.92	48.76	55.20
330.0	64.40	64.40	62.56	61.64	61.64	57.96	52.44	55.20	59.80
345.0	86.48	83.72	80.96	78.20	75.44	72.68	64.40	61.64	61.64
360.0	98.44	94.76	91.08	87.40	84.64	80.96	65.32	50.60	53.36

Intensity data(cd)

C/ γ (°)	180.0
0.0	45.08
15.0	47.84
30.0	49.68
45.0	44.16
60.0	48.76
75.0	57.04
90.0	59.80
105.0	59.80
120.0	58.88
135.0	58.88
150.0	57.96
165.0	57.96
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	45.08