
乐达凯

Client:

LumCAT: SYDV2107LAJUDLB

Luminaire: LED lamp

Report No:

Ballast type:

Test No: LCZP24100221

Voltage(V): 120.020

LampCAT:

Current(A): 0.165

Lamp flux(lm): 1265.1

Power (W): 19.560

Number of Lamps: 1

PF: 0.991

Length(mm): 520

Width(mm): 110

Phm Type: C

Height(mm): 80

Photometric Results

Lumens(lm): 1265.08, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 64.68

Central intensity(cd): 103.543, Maximum intensity(cd): 133.701

Angle of maximum intensity: C=75.0 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(%): 43.13%

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 : 30.938%

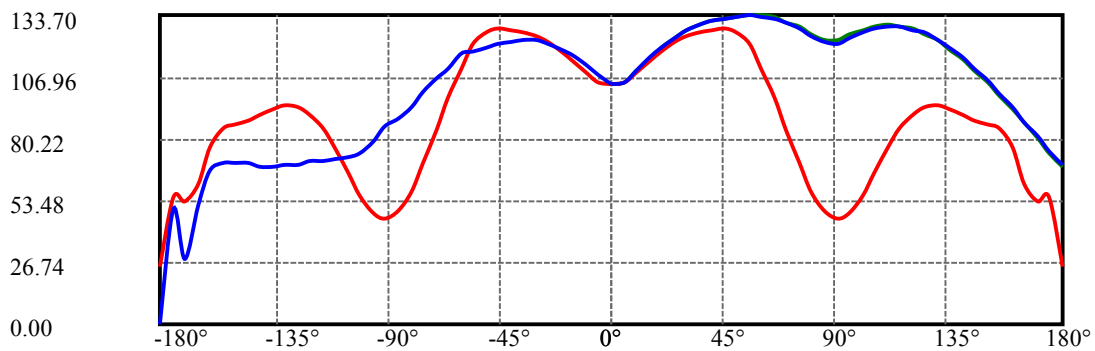
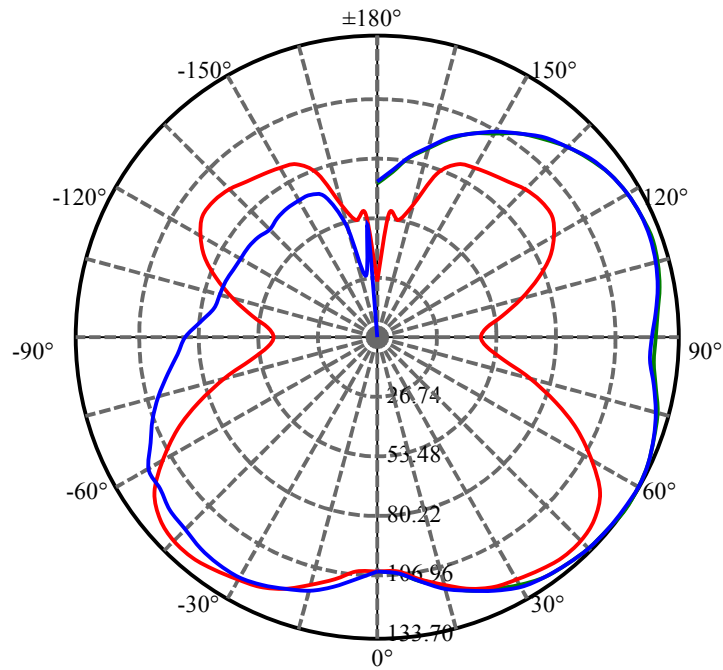
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	103.543	0.000	0	0.00%	0.00%
5.0	105.603	2.500	2.5	0.20%	0.20%
10.0	110.431	7.728	10.228	0.61%	0.81%
15.0	115.283	13.389	23.618	1.06%	1.87%
20.0	119.329	19.335	42.953	1.53%	3.40%
25.0	122.646	25.379	68.332	2.01%	5.40%
30.0	125.137	31.357	99.689	2.48%	7.88%
35.0	126.872	37.110	136.799	2.93%	10.81%
40.0	127.879	42.503	179.302	3.36%	14.17%
45.0	128.199	47.415	226.717	3.75%	17.92%
50.0	127.949	51.759	278.476	4.09%	22.01%
55.0	126.339	55.291	333.767	4.37%	26.38%
60.0	122.968	57.627	391.393	4.56%	30.94%
65.0	118.004	58.581	449.974	4.63%	35.57%
70.0	111.985	58.235	508.209	4.60%	40.17%
75.0	104.928	56.697	564.906	4.48%	44.65%
80.0	97.707	54.219	619.125	4.29%	48.94%
85.0	91.409	51.387	670.513	4.06%	53.00%
90.0	87.502	48.987	719.5	3.87%	56.87%
95.0	85.408	47.344	766.844	3.74%	60.62%
100.0	85.999	46.575	813.419	3.68%	64.30%
105.0	87.457	46.412	859.831	3.67%	67.97%
110.0	89.162	46.165	905.996	3.65%	71.62%
115.0	90.653	45.530	951.527	3.60%	75.21%
120.0	91.612	44.309	995.836	3.50%	78.72%
125.0	91.847	42.406	1038.242	3.35%	82.07%
130.0	91.036	39.765	1078.007	3.14%	85.21%
135.0	89.657	36.512	1114.518	2.89%	88.10%
140.0	88.282	32.947	1147.465	2.60%	90.70%
145.0	86.741	29.201	1176.666	2.31%	93.01%
150.0	84.801	25.261	1201.927	2.00%	95.01%
155.0	82.408	21.160	1223.087	1.67%	96.68%
160.0	77.645	16.787	1239.874	1.33%	98.01%
165.0	68.187	12.019	1251.893	0.95%	98.96%
170.0	61.870	7.715	1259.608	0.61%	99.57%
175.0	60.536	4.379	1263.986	0.35%	99.91%
180.0	30.628	1.090	1265.076	0.09%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	99.69	7.88%	7.88%
0-40	179.30	14.17%	14.17%
0-60	391.39	30.94%	30.94%
0-90	719.50	56.87%	56.87%
0-120	995.84	78.72%	78.72%
0-180	1265.08	100.00%	100.00%
60-90	328.11	25.94%	25.94%
90-120	276.34	21.84%	21.84%
90-130	358.51	28.34%	28.34%
90-150	482.43	38.13%	38.13%
90-180	544.49	43.04%	43.04%
0-121.91	1012.06	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	10.23
10-20	32.72
20-30	56.74
30-40	79.61
40-50	99.17
50-60	112.92
60-70	116.82
70-80	110.92
80-90	100.37
90-100	93.92
100-110	92.58
110-120	89.84
120-130	82.17
130-140	69.46
140-150	54.46
150-160	37.95
160-170	19.73
170-180	4.38

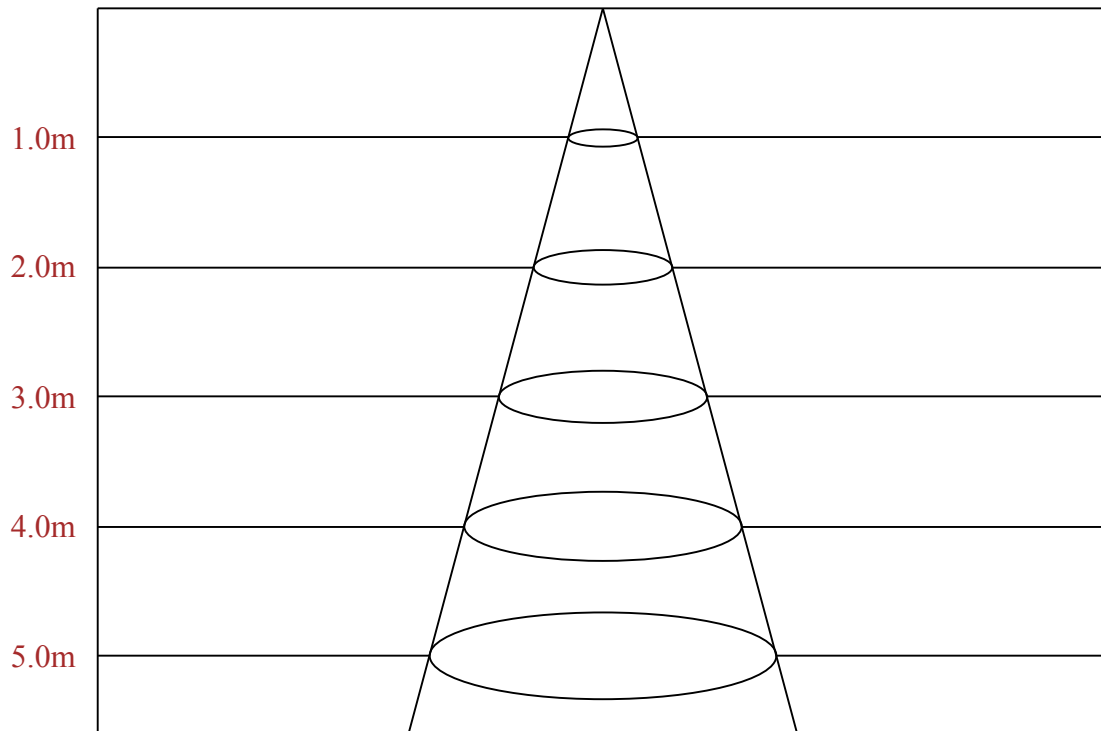
C75(Max): C0/C180: C90/C270: 

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

:C90/270Left:0.0 Right:0.0

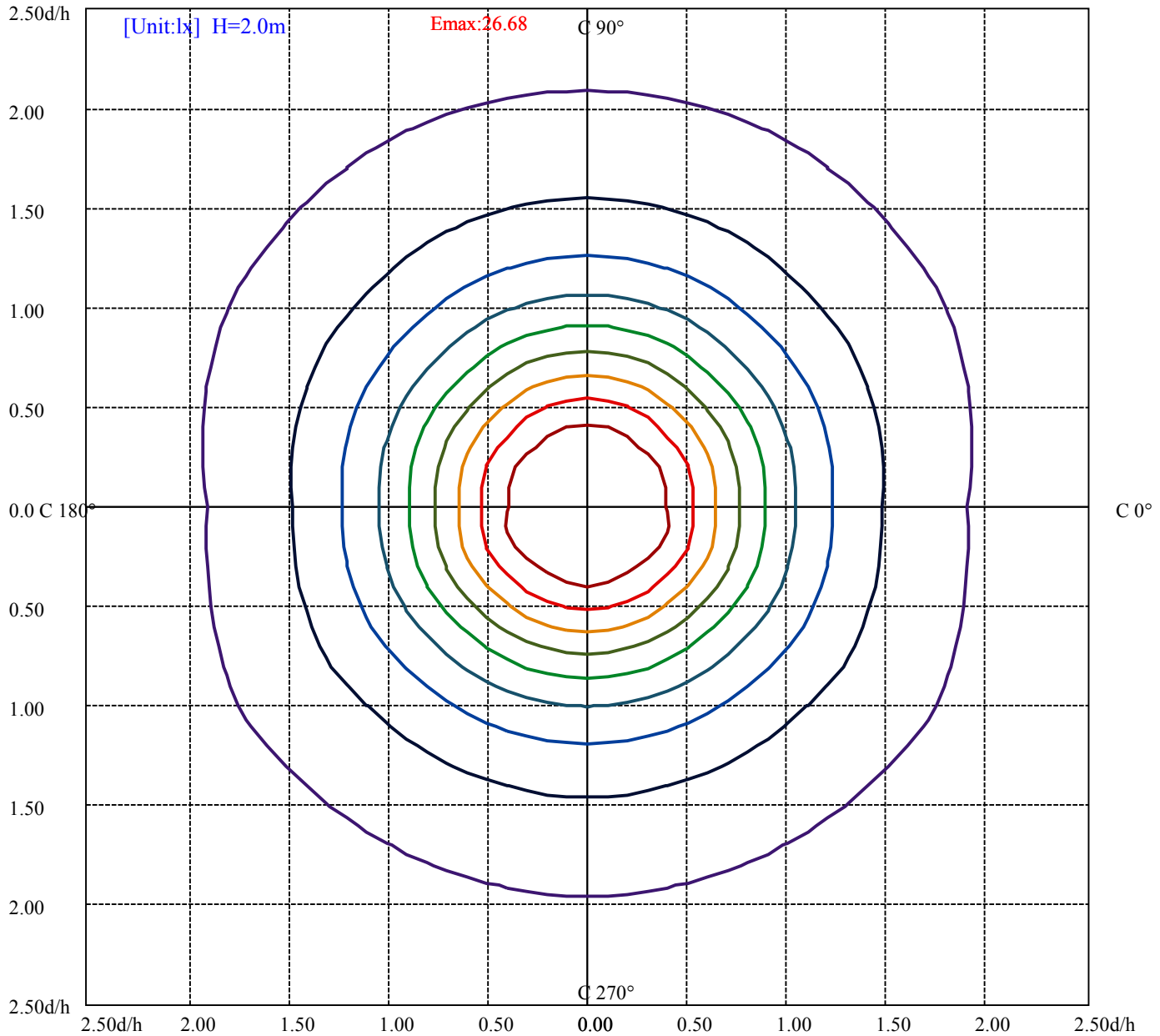
Beam Angle(50%Imax):C0/180Left:208.9 Right:118.9

:C90/270Left:176.2 Right:117.7

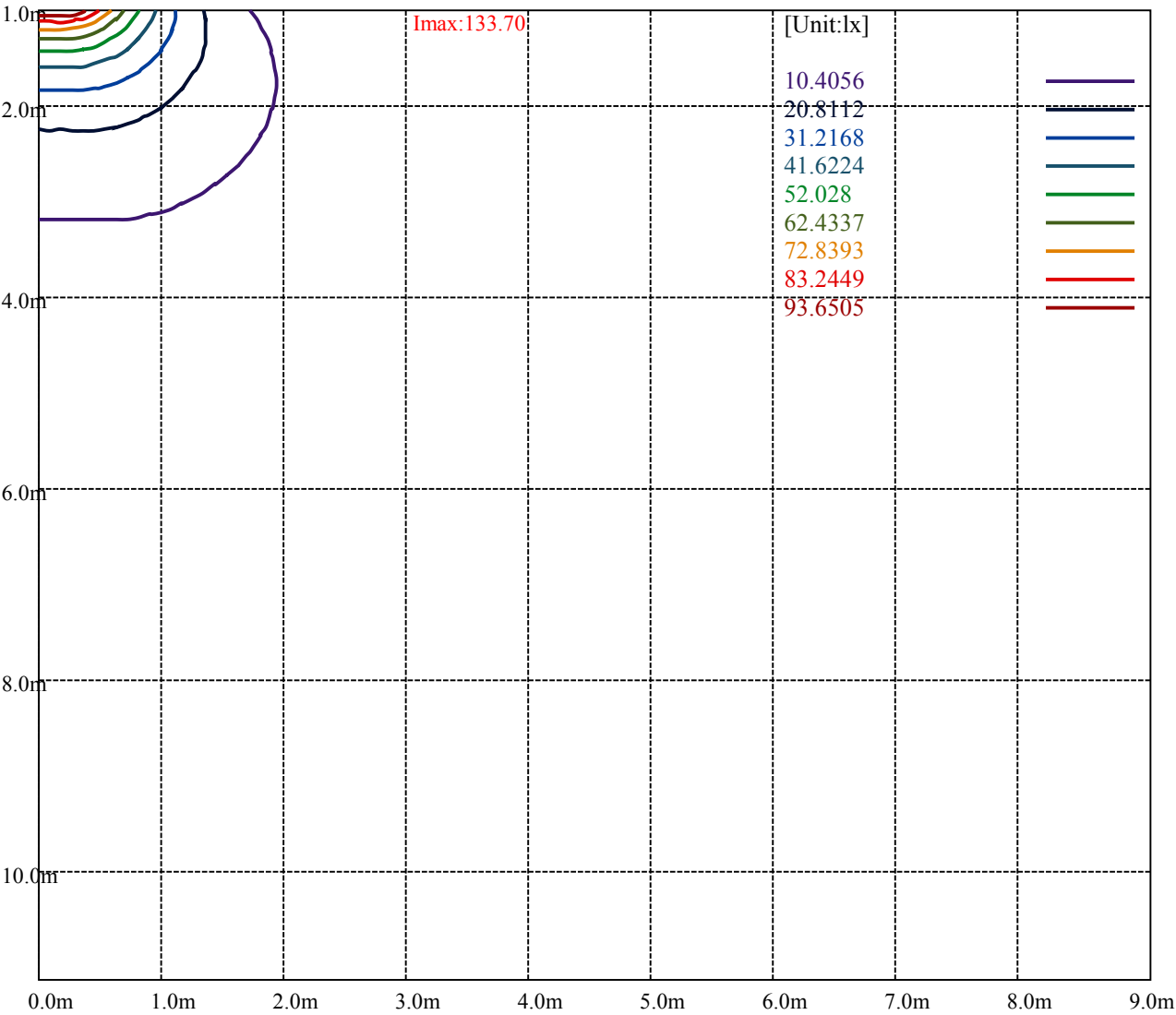


Max , Ave

Beam angle of C75 plane 344.10



(10%Emax) 2.668125	—
(20%Emax) 5.336275	—
(30%Emax) 8.0044	—
(40%Emax) 10.67253	—
(50%Emax) 13.34068	—
(60%Emax) 16.0088	—
(70%Emax) 18.67693	—
(80%Emax) 21.34508	—
(90%Emax) 24.0132	—



Luminance Table

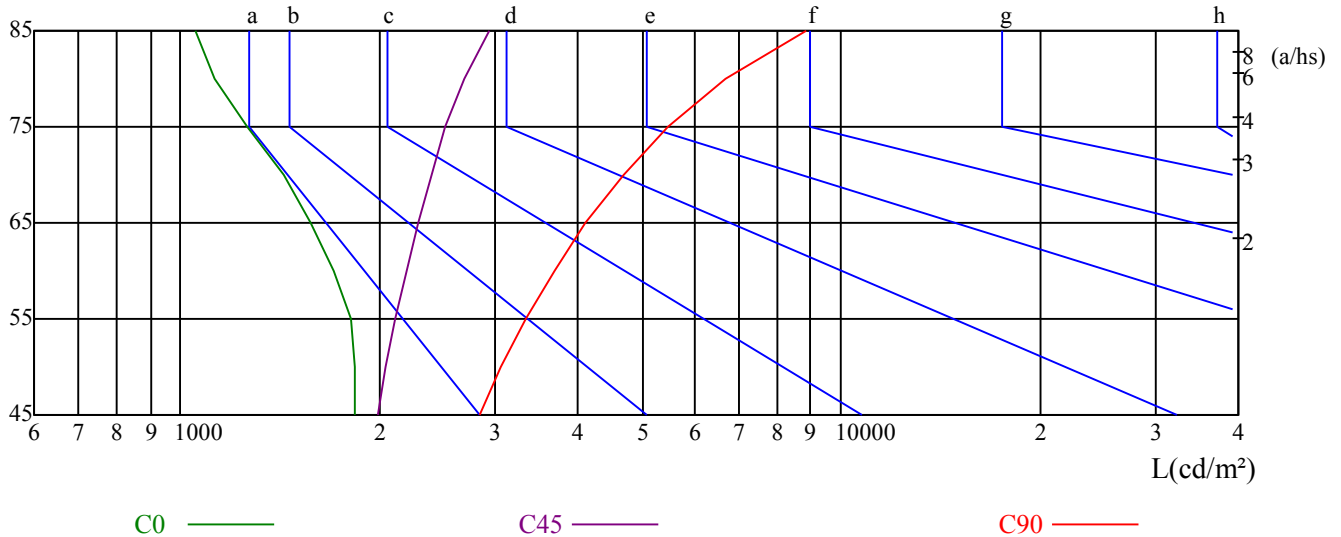
γ	45	50	55	60	65	70	75	80	85
C0	1831	1835	1808	1705	1578	1430	1264	1124	1051
C45	1989	2050	2117	2196	2287	2393	2523	2692	2931
C90	2837	3056	3335	3679	4113	4690	5486	6693	8848

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4040	5020	5044	4695	7707	7582	9790	21107	20017

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	103.54	99.86	103.45	108.93	113.78	118.00	120.96	123.39	125.10
15.0	103.54	100.20	103.81	109.78	114.48	118.73	122.26	124.52	126.51
30.0	103.54	100.74	104.63	110.15	115.13	119.56	123.09	125.63	127.71
45.0	103.54	101.64	105.90	111.15	115.59	119.85	123.47	126.82	128.45
60.0	103.54	102.45	106.82	112.00	116.83	121.01	124.38	127.11	129.29
75.0	103.54	103.82	108.07	113.80	118.04	122.11	125.62	128.48	130.24
90.0	103.54	104.76	109.90	115.22	119.90	123.91	127.37	129.52	131.58
105.0	103.54	106.06	111.37	116.03	121.25	124.61	127.87	130.48	132.34
120.0	103.54	106.43	112.12	117.43	122.09	126.19	129.36	131.69	132.99
135.0	103.54	104.91	110.48	115.68	119.69	123.79	126.35	128.63	130.09
150.0	103.54	108.45	114.48	119.67	126.83	127.59	130.51	132.40	134.10
165.0	103.54	108.82	114.38	119.65	124.08	127.57	130.11	131.90	132.84
180.0	103.54	109.47	114.59	119.35	122.85	125.90	127.52	128.87	129.50
195.0	103.54	109.33	114.58	119.19	122.99	125.88	127.96	129.04	129.77
210.0	103.54	109.06	114.22	118.30	121.92	124.54	126.35	127.44	127.89
225.0	103.54	108.62	113.51	117.76	120.94	123.38	124.92	125.92	125.83
240.0	103.54	108.36	113.01	116.92	119.74	121.83	123.10	123.56	123.29
255.0	103.54	107.88	112.50	116.29	119.24	121.18	122.57	122.94	122.39
270.0	103.54	107.56	112.14	116.16	119.15	121.20	122.51	122.79	122.33
285.0	103.54	106.99	111.46	115.57	118.55	120.88	122.09	123.02	122.74
300.0	103.54	106.15	111.00	115.10	115.84	120.88	122.83	123.86	124.14
315.0	103.54	102.81	107.47	111.94	115.77	118.69	120.78	122.34	123.25
330.0	103.54	105.33	110.43	115.33	119.39	122.87	125.51	127.21	128.16
345.0	103.54	104.77	110.04	115.41	119.84	123.33	125.78	127.38	128.60
360.0	103.54	99.86	103.45	108.93	113.78	118.00	120.96	123.39	125.10
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	125.99	126.35	124.83	116.65	106.15	92.32	77.68	63.58	51.28
15.0	127.69	128.14	128.41	125.06	118.73	110.87	103.36	95.04	87.17
30.0	128.89	129.34	129.61	129.43	127.89	126.26	123.45	120.02	116.30
45.0	129.99	130.90	131.26	130.81	130.08	128.36	126.01	123.38	120.21
60.0	130.57	131.38	132.02	132.20	131.93	130.66	128.65	126.02	123.38
75.0	131.34	132.08	132.64	132.55	131.81	129.96	127.65	124.79	122.39
90.0	132.42	132.98	133.45	133.26	132.23	130.55	127.84	124.48	121.67
105.0	133.37	134.20	134.76	134.30	133.27	131.60	129.36	126.38	124.23
120.0	134.48	135.04	135.04	134.58	133.18	131.04	128.33	125.26	123.39
135.0	131.09	131.73	131.28	130.36	128.17	125.53	122.43	119.05	117.14
150.0	134.66	135.04	134.47	130.89	125.33	119.10	112.78	106.37	102.32
165.0	133.79	133.88	128.42	118.52	106.93	94.31	81.87	70.38	64.54
180.0	129.85	125.54	117.01	103.72	89.17	75.43	61.34	50.83	46.34
195.0	130.04	129.68	124.70	117.29	108.52	98.12	85.73	74.97	67.01
210.0	127.98	127.98	126.44	124.18	119.56	112.59	102.37	91.23	81.73
225.0	125.28	124.47	122.02	118.76	113.87	108.07	98.56	89.23	79.90
240.0	122.10	120.74	118.10	115.10	110.64	104.36	97.26	89.35	83.07
255.0	121.00	119.15	117.12	114.16	110.19	104.56	98.92	96.98	87.01
270.0	121.02	119.80	117.84	116.81	110.46	105.97	100.37	94.10	88.78
285.0	121.44	120.04	118.17	115.19	111.18	105.87	99.54	92.36	85.93
300.0	123.49	122.55	120.50	117.71	113.70	107.92	100.75	92.27	83.23
315.0	123.07	122.52	121.61	119.23	115.58	110.02	101.99	92.05	81.92
330.0	128.44	128.44	128.06	125.33	119.86	112.22	101.85	89.96	77.89
345.0	128.79	128.79	124.36	115.13	103.64	91.95	80.18	66.89	57.00
360.0	125.99	126.35	124.83	116.65	106.15	92.32	77.68	63.58	51.28

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	44.45	45.08	50.92	60.26	70.76	79.66	86.93	92.86	95.64
15.0	82.38	83.20	87.90	95.04	100.65	105.08	108.06	109.42	108.34
30.0	113.86	114.58	117.48	120.29	122.82	123.55	123.00	121.55	118.21
45.0	118.67	120.30	123.02	125.28	126.46	126.82	125.46	122.84	120.21
60.0	122.83	124.38	126.74	127.93	128.47	127.74	126.29	123.56	120.56
75.0	121.74	123.40	125.53	127.28	128.11	127.65	127.10	125.34	122.39
90.0	121.58	123.54	125.88	127.65	128.40	128.31	127.37	125.88	122.89
105.0	124.88	126.84	128.99	130.29	130.20	129.92	128.52	126.10	122.83
120.0	124.61	127.31	129.73	131.50	131.50	130.48	128.05	124.51	121.62
135.0	118.14	120.60	123.34	125.44	126.53	125.89	124.07	121.79	118.05
150.0	101.37	105.99	111.94	117.59	121.46	123.82	123.91	121.37	117.03
165.0	63.31	68.31	75.09	84.32	91.58	97.98	102.79	105.24	104.30
180.0	47.51	51.55	61.16	71.75	81.54	89.08	93.84	95.64	93.75
195.0	60.77	56.16	57.24	60.41	65.47	70.35	75.06	77.77	77.86
210.0	71.50	61.09	57.65	53.58	50.87	50.41	51.59	53.85	56.12
225.0	72.02	62.05	56.53	52.09	49.28	48.46	48.28	49.64	52.45
240.0	77.52	71.15	69.15	60.60	58.32	57.23	57.14	57.59	58.41
255.0	82.76	76.57	71.31	68.72	68.17	67.52	66.87	66.50	66.13
270.0	85.32	78.97	73.92	72.24	71.58	70.84	70.27	69.25	68.69
285.0	80.90	74.19	68.50	64.31	61.88	60.02	59.27	59.18	59.18
300.0	75.12	66.08	59.74	55.45	52.00	50.23	50.23	50.79	52.47
315.0	70.79	59.48	53.64	50.72	47.62	45.80	45.16	46.07	47.62
330.0	67.05	59.22	56.77	57.15	58.75	62.24	65.63	68.27	68.93
345.0	50.97	49.75	51.82	59.07	67.46	76.60	83.76	89.32	91.20
360.0	44.45	45.08	50.92	60.26	70.76	79.66	86.93	92.86	95.64
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	94.83	92.14	89.80	87.56	85.67	83.97	72.11	53.16	58.28
15.0	104.90	101.01	97.39	93.87	90.61	87.36	80.75	62.40	55.43
30.0	113.86	109.15	104.54	99.92	95.13	90.24	84.81	72.86	53.58
45.0	116.41	111.79	107.35	102.55	97.38	91.58	85.88	79.45	63.96
60.0	117.28	113.10	108.55	103.72	98.54	92.72	86.26	79.61	73.52
75.0	118.69	114.63	109.82	104.84	99.48	93.47	87.19	80.73	73.89
90.0	119.52	115.22	110.46	105.22	99.80	93.92	87.56	81.11	74.39
105.0	118.92	114.63	109.79	104.47	98.79	92.82	86.39	79.87	73.16
120.0	117.71	113.14	108.58	103.26	97.39	91.43	85.00	78.47	71.86
135.0	113.30	109.02	103.73	98.80	93.33	87.40	81.28	75.35	69.24
150.0	111.94	107.31	102.69	97.88	92.70	87.51	81.57	75.72	69.88
165.0	100.90	97.70	94.59	92.05	89.03	84.89	79.71	74.05	68.68
180.0	91.15	88.81	86.75	84.95	83.34	69.24	48.49	53.07	51.82
195.0	77.50	76.78	75.33	71.62	70.45	69.36	48.20	50.01	46.30
210.0	59.10	59.28	60.55	62.99	63.63	54.67	48.06	47.16	47.43
225.0	57.07	63.32	67.40	69.57	70.21	67.67	53.99	47.74	47.83
240.0	60.05	63.24	66.60	69.70	69.88	70.15	60.78	47.86	40.03
255.0	65.95	66.69	67.61	68.54	67.34	65.49	56.81	37.59	40.36
270.0	67.84	68.50	69.43	70.09	69.90	66.44	51.40	27.85	49.62
285.0	59.93	62.35	65.15	68.03	69.62	64.96	45.57	41.10	60.49
300.0	55.92	60.67	65.98	69.53	72.23	63.75	46.79	51.07	62.54
315.0	50.17	53.82	57.47	59.39	60.30	56.47	50.36	56.01	62.58
330.0	68.93	68.46	67.33	65.16	62.71	61.58	57.43	63.37	67.90
345.0	89.88	88.00	84.89	81.50	80.37	76.41	70.10	69.25	70.10
360.0	94.83	92.14	89.80	87.56	85.67	83.97	72.11	53.16	58.28

Intensity data(cd)

C/ $\gamma(^{\circ})$	180.0
0.0	49.57
15.0	59.14
30.0	53.58
45.0	47.56
60.0	56.14
75.0	68.35
90.0	68.87
105.0	67.94
120.0	67.20
135.0	64.95
150.0	66.20
165.0	65.57
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	49.57