
乐达凯

Client:

LumCAT: SYDV2107LAJUDBK

Luminaire: LED lamp

Report No:

Ballast type:

Test No: LCZP24100221

Voltage(V): 119.990

LampCAT:

Current(A): 0.163

Lamp flux(lm): 1193.5

Power (W): 19.390

Number of Lamps: 1

PF: 0.991

Length(mm): 520

Width(mm): 110

Phm Type: C

Height(mm): 80

Photometric Results

Lumens(lm): 1193.45, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 61.55

Central intensity(cd): 105.352, Maximum intensity(cd): 129.393

Angle of maximum intensity: C=90.0 γ =45.0

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

[C90/270]Total=293.9

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 : 32.546%

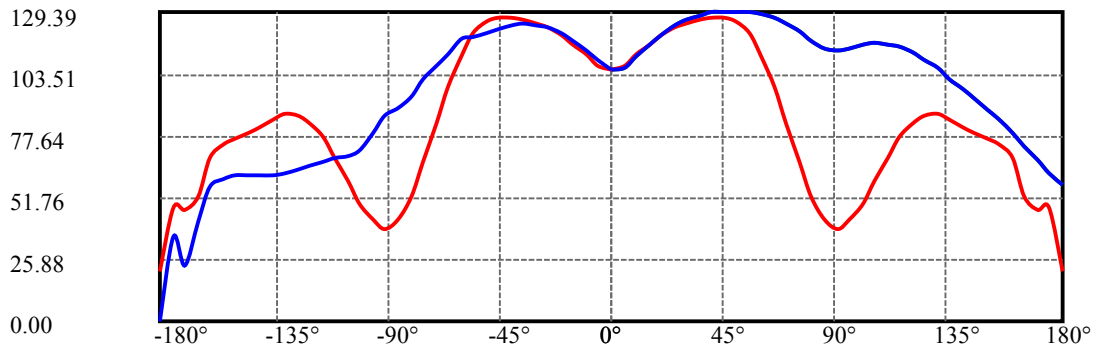
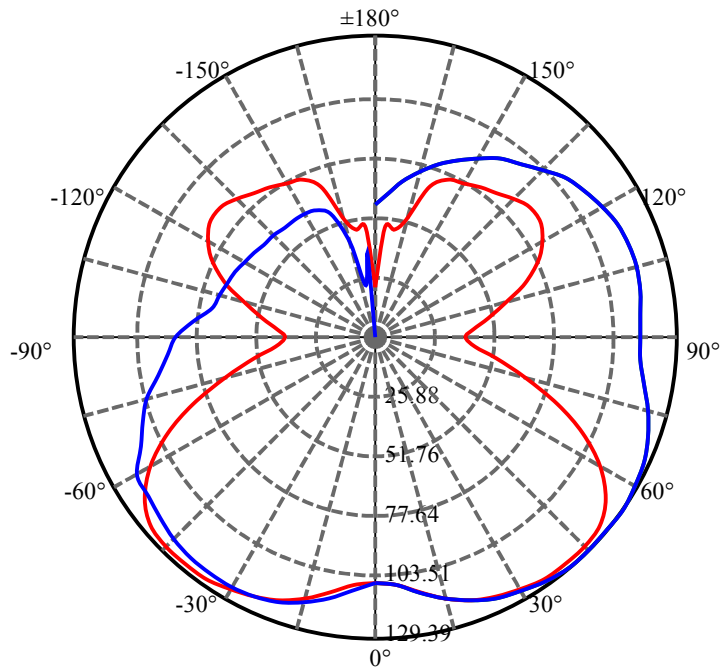
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	105.352	0.000	0	0.00%	0.00%
5.0	107.602	2.546	2.546	0.21%	0.21%
10.0	112.187	7.863	10.408	0.66%	0.87%
15.0	116.538	13.568	23.976	1.14%	2.01%
20.0	120.131	19.505	43.481	1.63%	3.64%
25.0	123.062	25.506	68.988	2.14%	5.78%
30.0	125.094	31.404	100.392	2.63%	8.41%
35.0	126.320	37.023	137.414	3.10%	11.51%
40.0	126.826	42.236	179.65	3.54%	15.05%
45.0	126.545	46.914	226.564	3.93%	18.98%
50.0	125.848	51.000	277.564	4.27%	23.26%
55.0	124.006	54.326	331.89	4.55%	27.81%
60.0	120.576	56.534	388.424	4.74%	32.55%
65.0	115.499	57.390	445.815	4.81%	37.36%
70.0	109.311	56.923	502.738	4.77%	42.12%
75.0	101.906	55.209	557.947	4.63%	46.75%
80.0	94.095	52.444	610.391	4.39%	51.14%
85.0	87.722	49.404	659.795	4.14%	55.28%
90.0	83.468	46.873	706.668	3.93%	59.21%
95.0	80.492	44.893	751.562	3.76%	62.97%
100.0	79.863	43.572	795.134	3.65%	66.62%
105.0	79.878	42.742	837.876	3.58%	70.21%
110.0	80.367	41.885	879.762	3.51%	73.72%
115.0	80.830	40.816	920.578	3.42%	77.14%
120.0	81.047	39.353	959.93	3.30%	80.43%
125.0	80.709	37.389	997.32	3.13%	83.57%
130.0	79.579	34.852	1032.172	2.92%	86.49%
135.0	77.832	31.807	1063.979	2.67%	89.15%
140.0	76.243	28.528	1092.507	2.39%	91.54%
145.0	74.707	25.185	1117.692	2.11%	93.65%
150.0	72.996	21.750	1139.442	1.82%	95.47%
155.0	70.864	18.206	1157.648	1.53%	97.00%
160.0	66.756	14.434	1172.081	1.21%	98.21%
165.0	58.199	10.298	1182.38	0.86%	99.07%
170.0	52.012	6.538	1188.917	0.55%	99.62%
175.0	49.700	3.639	1192.556	0.30%	99.92%
180.0	25.357	0.897	1193.453	0.08%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	100.39	8.41%	8.41%
0-40	179.65	15.05%	15.05%
0-60	388.42	32.55%	32.55%
0-90	706.67	59.21%	59.21%
0-120	959.93	80.43%	80.43%
0-180	1193.45	100.00%	100.00%
60-90	318.24	26.67%	26.67%
90-120	253.26	21.22%	21.22%
90-130	325.50	27.27%	27.27%
90-150	432.77	36.26%	36.26%
90-180	485.89	40.71%	40.71%
0-119.34	954.76	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	10.41
10-20	33.07
20-30	56.91
30-40	79.26
40-50	97.91
50-60	110.86
60-70	114.31
70-80	107.65
80-90	96.28
90-100	88.47
100-110	84.63
110-120	80.17
120-130	72.24
130-140	60.34
140-150	46.94
150-160	32.64
160-170	16.84
170-180	3.64



C90(Max): —————

C0/C180: —————

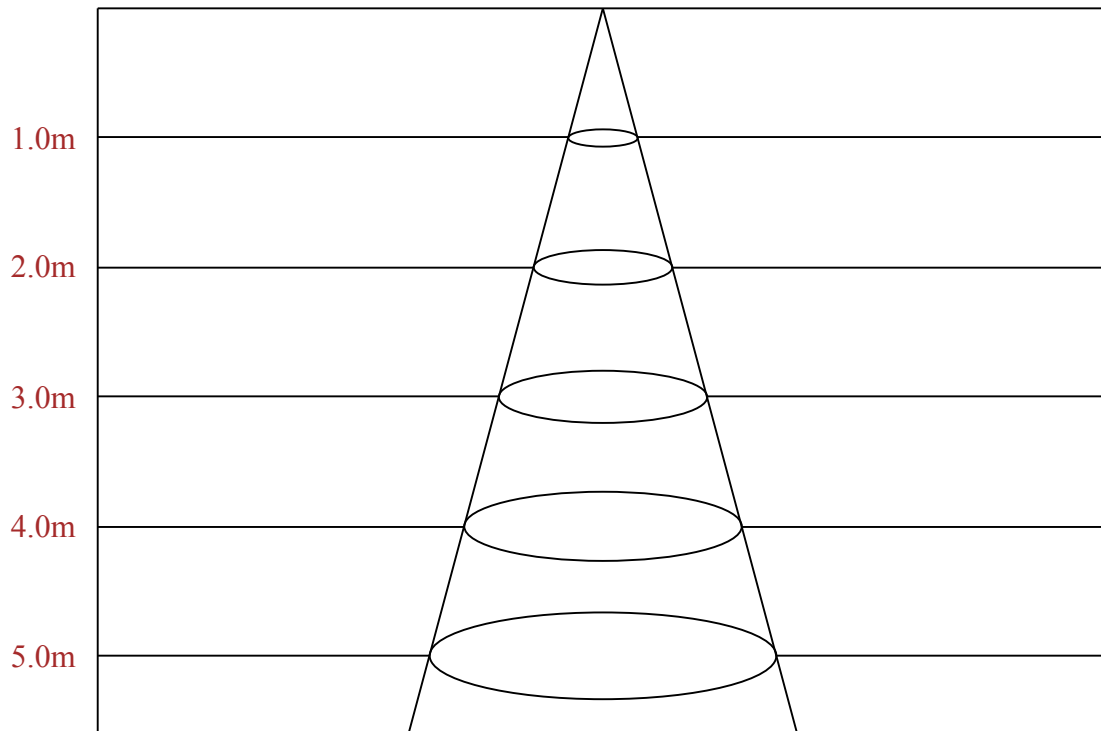
C90/C270: —————

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

:C90/270Left:0.0 Right:0.0

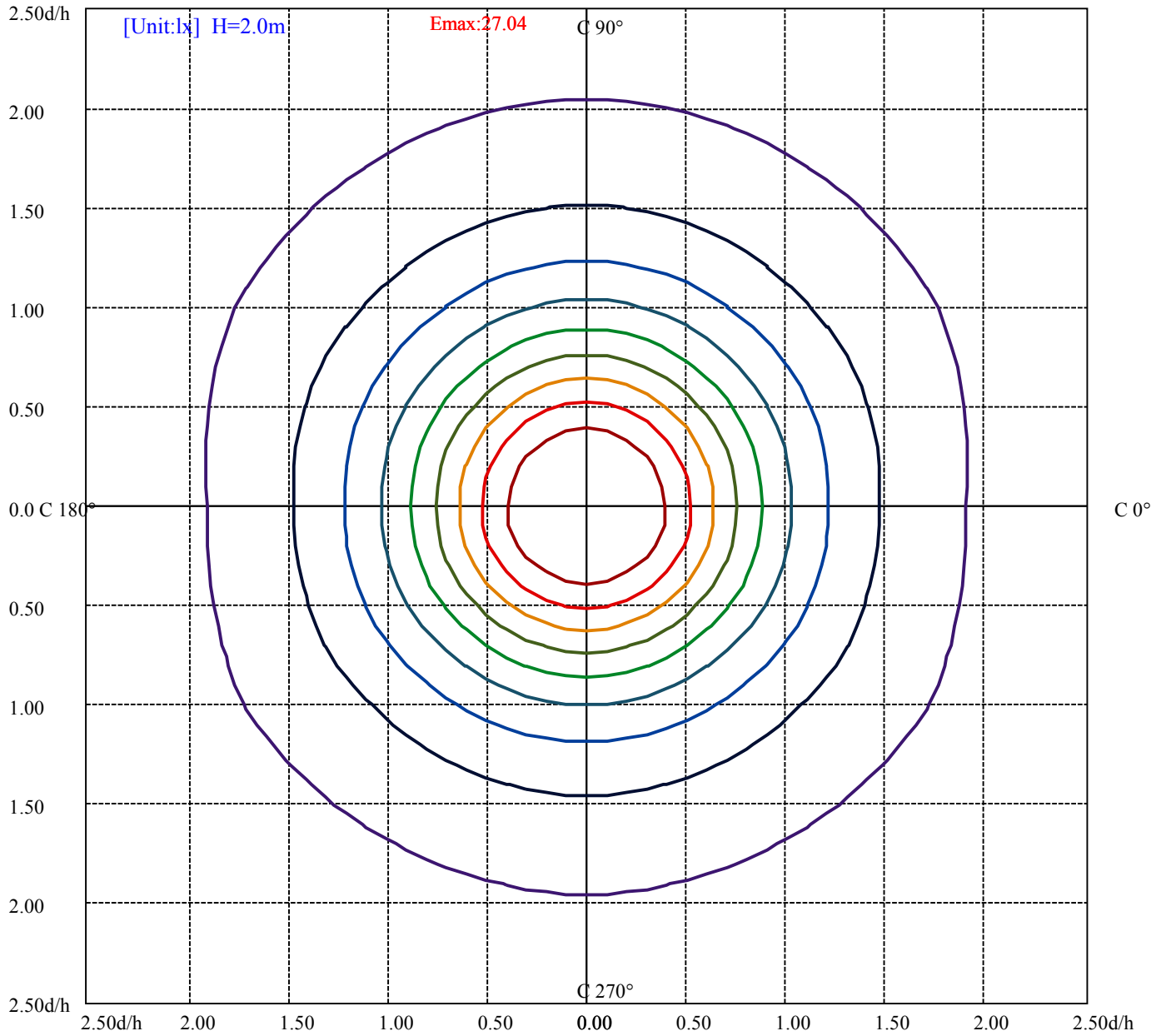
Beam Angle(50%Imax):C0/180Left:206.5 Right:116.5

:C90/270Left:176.2 Right:117.7

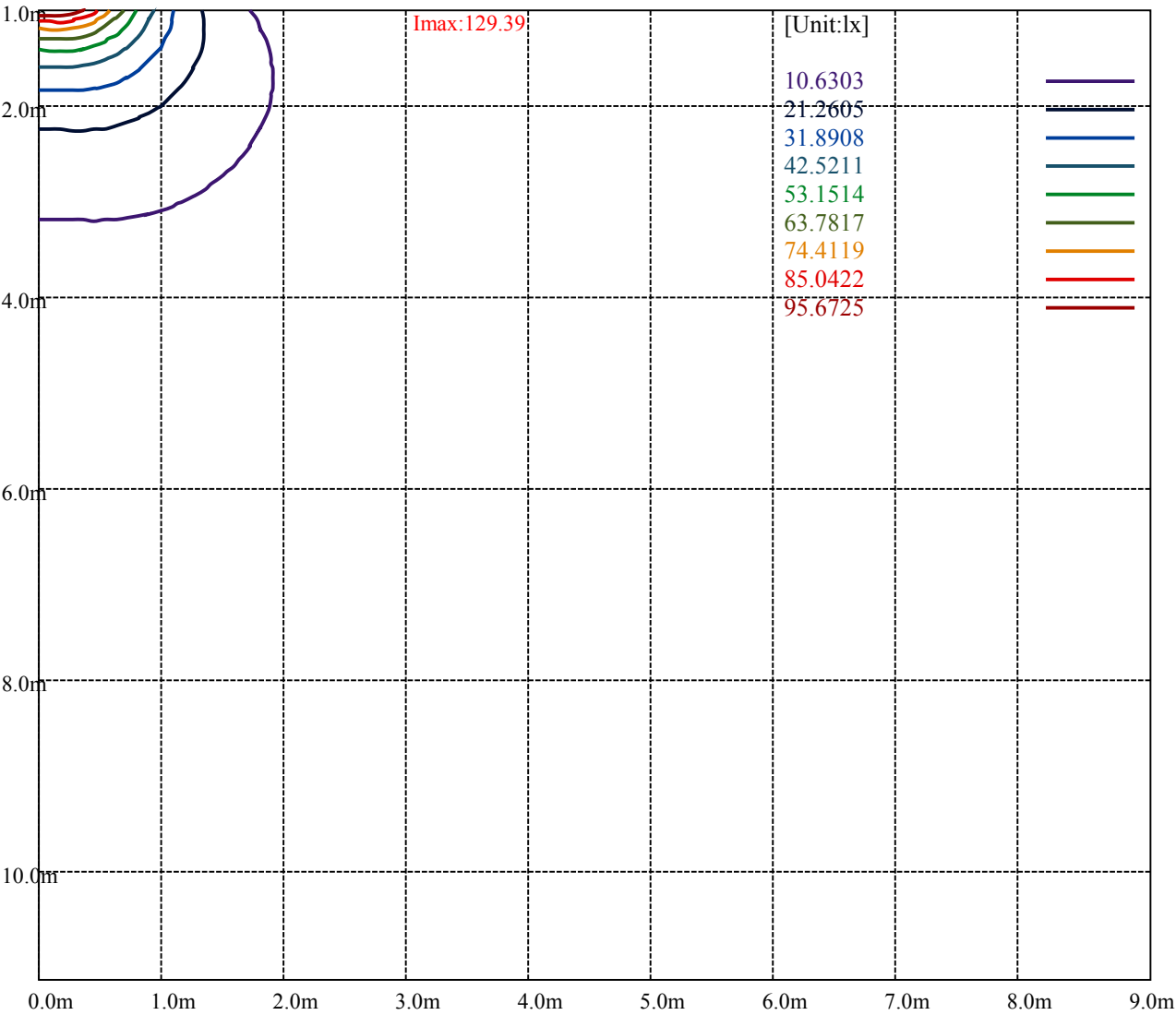


Max , Ave

Beam angle of C90 plane 340.58



(10%Emax) 2.704425	—
(20%Emax) 5.408875	—
(30%Emax) 8.1133	—
(40%Emax) 10.81773	—
(50%Emax) 13.52215	—
(60%Emax) 16.2266	—
(70%Emax) 18.93102	—
(80%Emax) 21.63545	—
(90%Emax) 24.3399	—



Luminance Table

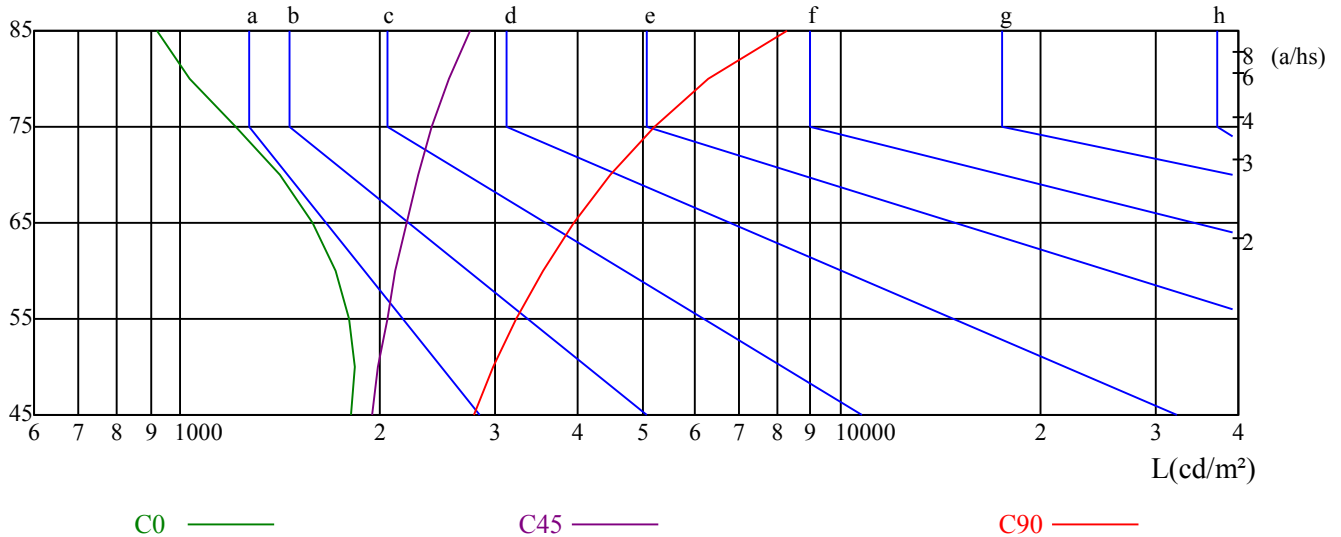
γ	45	50	55	60	65	70	75	80	85
C0	1818	1832	1802	1720	1585	1418	1216	1033	922
C45	1950	1996	2052	2119	2202	2289	2400	2549	2752
C90	2773	2972	3233	3542	3950	4475	5214	6313	8316

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4057	4930	4926	4516	7521	7344	8585	20444	19246

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	1.02	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

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Intensity data(cd)

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C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	105.35	104.71	110.02	115.87	120.99	125.38	128.85	131.69	133.61
15.0	105.35	104.71	109.73	115.48	120.58	124.96	128.52	131.35	133.45
30.0	105.35	104.71	109.83	115.49	120.52	124.91	128.38	131.30	133.13
45.0	105.35	104.99	110.37	115.48	120.68	124.78	128.16	130.89	132.81
60.0	105.35	105.35	110.18	115.47	119.93	124.22	127.22	129.59	131.42
75.0	105.35	105.90	110.41	115.47	119.89	123.66	126.70	128.91	130.65
90.0	105.35	106.47	111.20	116.03	120.11	123.54	125.96	127.81	129.02
105.0	105.35	107.21	111.58	115.66	119.47	122.54	124.95	126.63	127.46
120.0	105.35	107.84	111.63	115.88	119.39	122.25	123.91	125.02	125.30
135.0	105.35	106.63	110.83	114.40	117.60	120.06	121.71	122.62	122.80
150.0	105.35	108.33	112.15	116.33	120.80	121.45	122.66	123.50	123.31
165.0	105.35	108.89	112.62	116.16	119.04	121.00	122.31	122.49	122.49
180.0	105.35	109.38	113.13	116.23	118.52	120.53	121.08	121.26	120.17
195.0	105.35	109.37	113.47	116.30	118.58	119.95	120.95	120.77	120.22
210.0	105.35	109.55	113.30	116.41	118.69	120.15	120.89	120.89	120.06
225.0	105.35	109.46	113.38	116.48	119.03	120.49	121.13	120.86	120.13
240.0	105.35	109.45	113.55	116.83	119.20	120.94	121.57	121.39	120.30
255.0	105.35	109.31	113.54	117.13	119.71	121.45	122.47	122.01	121.36
270.0	105.35	109.16	113.71	117.60	120.67	122.80	123.92	124.19	123.64
285.0	105.35	108.98	113.81	117.89	121.24	123.47	125.05	125.70	125.88
300.0	105.35	108.68	113.85	118.37	119.20	124.65	126.87	127.70	128.25
315.0	105.35	107.00	112.39	117.41	121.43	124.72	127.10	128.65	129.38
330.0	105.35	108.14	113.73	119.03	123.41	127.13	130.20	132.43	133.74
345.0	105.35	108.24	114.11	119.51	124.45	128.45	131.71	134.04	135.25
360.0	105.35	104.71	110.02	115.87	120.99	125.38	128.85	131.69	133.61
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	134.80	134.80	131.32	122.54	109.28	93.55	76.91	61.64	48.93
15.0	134.72	135.09	133.72	127.61	118.49	109.09	97.23	87.38	78.54
30.0	134.32	134.86	134.96	134.59	132.31	128.47	123.81	118.51	113.03
45.0	133.90	134.36	134.18	133.54	132.17	129.98	126.97	123.78	119.95
60.0	132.42	132.69	132.42	131.78	130.60	128.59	125.67	121.76	118.48
75.0	131.21	131.39	131.30	130.47	129.18	126.70	124.12	119.89	116.76
90.0	129.39	129.30	129.39	128.28	126.98	124.57	121.50	117.42	114.36
105.0	127.56	127.28	126.44	125.33	123.56	120.96	118.08	114.36	111.30
120.0	125.02	124.37	123.45	122.06	120.13	117.17	113.75	109.78	107.11
135.0	122.16	121.43	120.25	118.42	116.50	112.94	109.28	105.81	102.88
150.0	122.48	121.64	120.34	118.20	114.29	109.82	104.42	98.84	94.74
165.0	121.56	120.72	117.46	110.66	101.72	91.94	82.16	71.17	64.74
180.0	119.16	116.69	109.74	99.77	86.88	72.80	56.79	43.53	36.67
195.0	118.94	117.67	113.01	105.72	97.14	87.47	76.07	64.67	57.83
210.0	118.87	117.32	115.59	112.84	107.00	100.69	91.28	81.50	72.91
225.0	118.58	117.03	115.02	111.55	106.81	100.43	92.03	83.46	75.07
240.0	118.75	117.02	114.37	111.37	106.72	100.70	93.32	85.76	79.47
255.0	119.98	118.33	115.93	112.71	108.39	102.96	96.70	90.35	85.02
270.0	122.06	120.57	118.90	117.88	111.39	106.56	101.17	94.31	89.48
285.0	124.77	123.28	121.61	117.99	114.18	108.70	102.29	95.23	88.72
300.0	127.60	126.22	124.28	121.23	116.52	110.71	103.87	95.10	87.44
315.0	129.29	128.83	127.10	124.91	120.79	114.85	106.63	96.49	85.89
330.0	134.02	134.02	133.37	130.85	126.66	120.43	110.84	99.58	87.86
345.0	135.53	135.44	131.99	123.52	114.29	103.40	90.82	77.97	68.19
360.0	134.80	134.80	131.32	122.54	109.28	93.55	76.91	61.64	48.93

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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	42.25	44.72	50.39	61.27	71.61	81.94	88.89	93.46	94.93
15.0	74.43	76.35	80.82	86.11	91.49	96.05	99.88	101.98	101.61
30.0	109.28	110.83	113.67	116.13	117.23	117.05	116.13	113.48	109.19
45.0	118.21	118.94	120.22	120.95	120.68	119.22	116.48	113.10	109.64
60.0	116.83	117.93	119.02	119.48	118.93	117.66	115.29	111.82	107.90
75.0	115.56	116.49	117.68	117.96	117.77	116.39	114.18	111.15	107.19
90.0	113.71	114.45	115.84	116.40	115.93	114.54	112.50	109.44	106.00
105.0	110.65	111.76	112.88	113.16	113.06	111.76	109.72	106.93	103.12
120.0	107.01	107.94	109.23	109.69	109.14	107.84	105.91	102.49	99.17
135.0	102.79	103.98	105.08	105.53	105.35	103.98	101.24	98.32	95.30
150.0	93.25	95.49	98.19	100.23	101.07	100.61	99.67	97.44	93.90
165.0	62.41	64.46	68.28	72.66	76.76	80.48	83.74	85.70	85.60
180.0	35.30	40.24	47.65	56.70	65.39	72.16	76.64	79.01	78.19
195.0	51.44	46.98	47.07	49.53	54.18	58.38	62.94	67.13	68.14
210.0	63.69	53.18	49.07	46.42	44.04	43.95	44.41	45.96	47.97
225.0	66.68	55.46	48.16	43.24	39.22	37.22	37.03	37.22	39.22
240.0	74.00	66.35	64.61	54.41	50.49	47.75	47.21	47.12	47.75
255.0	81.06	73.61	67.63	63.40	61.09	59.07	57.51	56.59	55.57
270.0	85.77	78.53	71.38	69.06	67.94	66.65	65.07	63.49	62.10
285.0	84.26	76.27	69.68	64.75	61.87	59.55	58.06	57.14	56.39
300.0	80.61	71.56	64.17	58.17	54.11	51.43	50.69	50.51	50.69
315.0	75.11	63.23	56.29	51.26	46.97	44.86	43.86	43.68	44.77
330.0	76.87	65.33	61.24	58.82	56.96	57.33	58.63	59.94	61.15
345.0	62.04	57.75	58.50	61.76	67.53	74.05	79.46	83.93	84.39
360.0	42.25	44.72	50.39	61.27	71.61	81.94	88.89	93.46	94.93
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	92.27	88.52	85.42	82.03	79.38	76.09	61.55	47.74	49.66
15.0	97.78	93.68	89.75	86.01	82.64	79.08	70.05	49.89	49.89
30.0	104.35	99.41	94.75	90.28	85.43	80.41	74.83	61.95	44.95
45.0	105.44	101.16	96.60	91.49	86.01	80.45	74.61	68.50	52.63
60.0	103.98	99.70	95.69	91.04	86.03	80.20	74.09	68.26	60.51
75.0	102.78	98.54	94.40	89.99	85.20	79.96	74.16	68.18	62.01
90.0	101.64	97.28	93.19	88.64	84.00	78.81	73.33	67.76	62.00
105.0	98.85	94.95	91.14	86.96	82.40	77.57	72.28	66.80	61.04
120.0	95.47	91.87	88.27	84.30	80.05	75.44	70.36	65.00	59.46
135.0	92.10	88.63	85.34	81.32	77.12	72.55	67.80	62.77	57.66
150.0	90.27	86.74	83.39	79.76	75.94	71.75	67.29	62.45	57.61
165.0	82.81	80.29	77.59	75.45	73.22	69.96	65.67	61.39	56.73
180.0	75.72	73.71	71.88	70.23	69.14	60.54	43.35	45.82	45.27
195.0	67.41	66.95	64.49	62.94	62.03	59.11	42.41	44.42	38.77
210.0	50.62	50.99	50.71	50.16	51.72	45.96	42.76	42.03	35.91
225.0	42.32	46.25	50.81	54.27	53.82	53.36	47.70	41.50	38.22
240.0	49.12	51.67	54.59	57.69	58.51	56.78	50.40	40.65	32.90
255.0	54.84	55.11	55.57	56.13	56.59	55.76	48.21	32.39	27.88
270.0	61.26	60.80	60.98	60.98	59.68	56.25	41.96	22.93	35.64
285.0	55.93	56.58	57.88	59.27	59.09	56.39	40.78	30.38	46.45
300.0	52.17	54.48	58.08	61.86	63.62	57.25	38.41	39.98	50.14
315.0	47.24	50.71	55.10	57.56	58.30	53.64	43.77	45.78	51.35
330.0	61.33	61.70	59.84	58.82	59.00	55.00	49.79	52.58	56.77
345.0	82.25	80.11	77.50	74.71	71.82	69.86	61.20	59.15	59.34
360.0	92.27	88.52	85.42	82.03	79.38	76.09	61.55	47.74	49.66

Intensity data(cd)

C/ $\gamma(^{\circ})$	180.0
0.0	42.16
15.0	44.79
30.0	46.33
45.0	41.41
60.0	45.66
75.0	53.55
90.0	56.81
105.0	56.58
120.0	55.86
135.0	54.82
150.0	55.37
165.0	55.24
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	42.16