
乐达凯

Client:

LumCAT: BRIP04LAJUDBK

Luminaire: LED LAMP

Report No:

Ballast type:

Test No: LCZP25120109

Voltage(V): 120.000

LampCAT:

Current(A): 0.124

Lamp flux(lm): 1519.1

Power (W): 14.640

Number of Lamps: 1

PF: 0.987

Length(mm): -90

Width(mm): -90

Phm Type: C

Height(mm): 375

Photometric Results

Lumens(lm): 1519.12, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 103.77

Central intensity(cd): 12.202, Maximum intensity(cd): 166.427

Angle of maximum intensity: C=0.0 γ =90.0

Beam Angle(50%Imax): [C0/180]Total=282.4

[C90/270]Total=282.4

Field angle(10%Imax): [C0/180]Total=340.6

[C90/270]Total=332.6

Maximum s/h(1/2): C0_180=5.55 C90_270=5.59

Maximum s/h(1/4): C0_180=5.14 C90_270=5.16

Up flux rate of lamp(%): 49.06%

Down flux rate of lamp(%): 50.94%

Up flux rate of LUM(%): 49.06%

Down flux rate of LUM(%): 50.94%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 18.650%

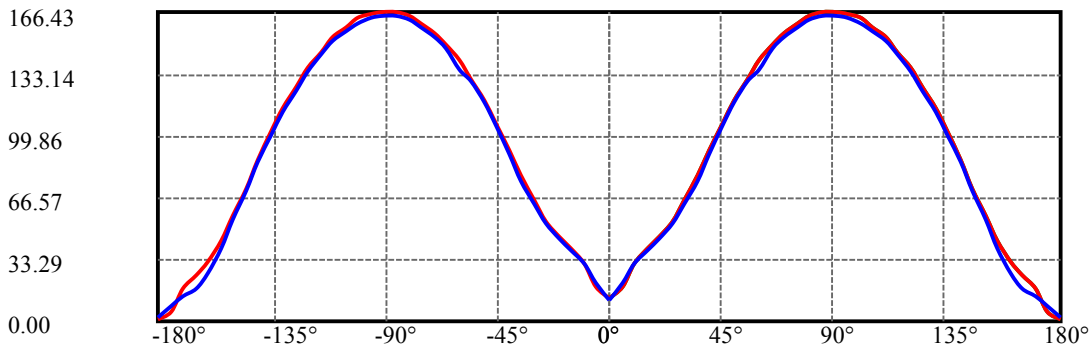
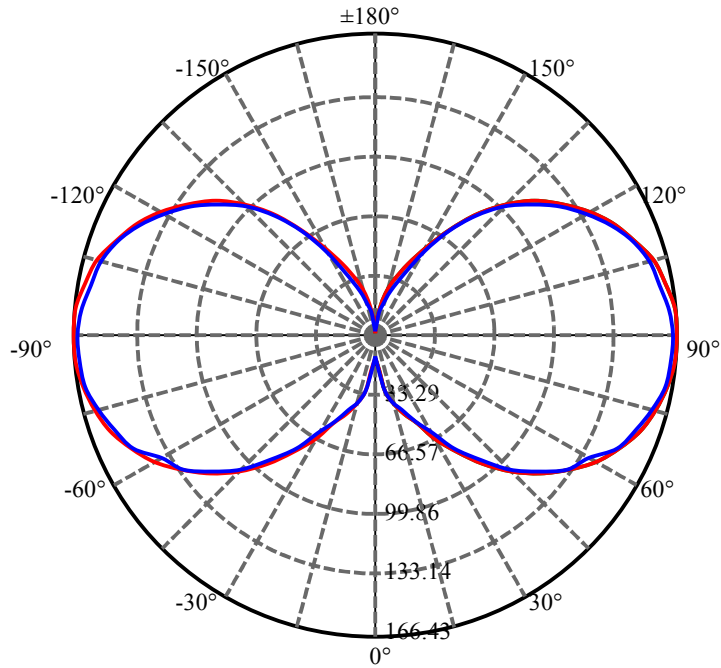
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	12.441	0.000	0	0.00%	0.00%
5.0	20.422	0.393	0.393	0.03%	0.03%
10.0	31.521	1.858	2.251	0.12%	0.15%
15.0	38.777	4.170	6.421	0.27%	0.42%
20.0	44.863	6.893	13.314	0.45%	0.88%
25.0	52.739	10.237	23.551	0.67%	1.55%
30.0	63.483	14.708	38.259	0.97%	2.52%
35.0	76.526	20.617	58.876	1.36%	3.88%
40.0	90.425	27.854	86.731	1.83%	5.71%
45.0	104.720	36.133	122.863	2.38%	8.09%
50.0	117.695	44.942	167.805	2.96%	11.05%
55.0	129.082	53.658	221.463	3.53%	14.58%
60.0	138.536	61.859	283.322	4.07%	18.65%
65.0	146.798	69.365	352.687	4.57%	23.22%
70.0	153.127	75.943	428.63	5.00%	28.22%
75.0	158.110	81.352	509.982	5.36%	33.57%
80.0	161.702	85.573	595.555	5.63%	39.20%
85.0	163.874	88.467	684.022	5.82%	45.03%
90.0	164.308	89.859	773.881	5.92%	50.94%
95.0	163.059	89.636	863.516	5.90%	56.84%
100.0	160.528	87.926	951.443	5.79%	62.63%
105.0	156.285	84.771	1036.213	5.58%	68.21%
110.0	150.790	80.265	1116.478	5.28%	73.49%
115.0	143.564	74.532	1191.01	4.91%	78.40%
120.0	135.018	67.724	1258.734	4.46%	82.86%
125.0	124.521	59.992	1318.726	3.95%	86.81%
130.0	113.052	51.656	1370.383	3.40%	90.21%
135.0	100.193	43.089	1413.472	2.84%	93.05%
140.0	86.552	34.577	1448.049	2.28%	95.32%
145.0	70.421	26.190	1474.239	1.72%	97.05%
150.0	54.904	18.455	1492.694	1.21%	98.26%
155.0	40.579	12.083	1504.777	0.80%	99.06%
160.0	28.691	7.265	1512.043	0.48%	99.53%
165.0	20.516	4.055	1516.098	0.27%	99.80%
170.0	14.807	2.095	1518.193	0.14%	99.94%
175.0	7.835	0.810	1519.003	0.05%	99.99%
180.0	2.202	0.120	1519.123	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	38.26	2.52%	2.52%
0-40	86.73	5.71%	5.71%
0-60	283.32	18.65%	18.65%
0-90	773.88	50.94%	50.94%
0-120	1258.73	82.86%	82.86%
0-180	1519.12	100.00%	100.00%
60-90	490.56	32.29%	32.29%
90-120	484.85	31.92%	31.92%
90-130	596.50	39.27%	39.27%
90-150	718.81	47.32%	47.32%
90-180	745.12	49.05%	49.05%
0-116.79	1215.30	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	2.25
10-20	11.06
20-30	24.94
30-40	48.47
40-50	81.07
50-60	115.52
60-70	145.31
70-80	166.92
80-90	178.33
90-100	177.56
100-110	165.04
110-120	142.26
120-130	111.65
130-140	77.67
140-150	44.64
150-160	19.35
160-170	6.15
170-180	0.81



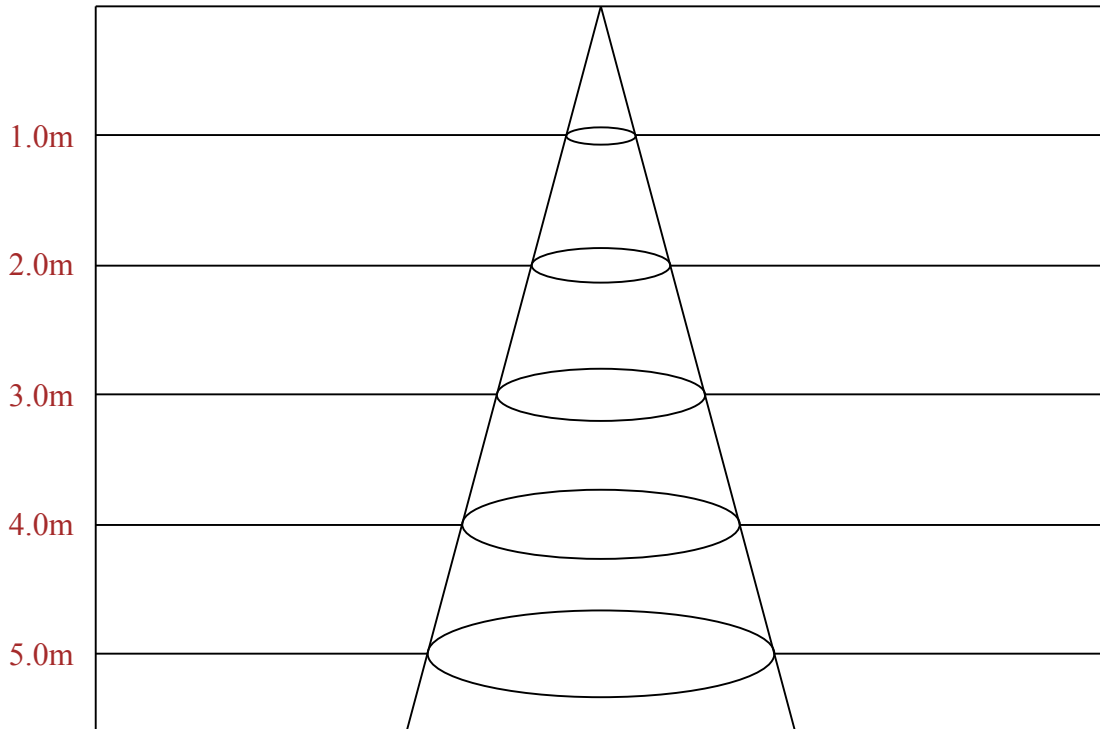
C0(Max): ———

C0/C180: ———

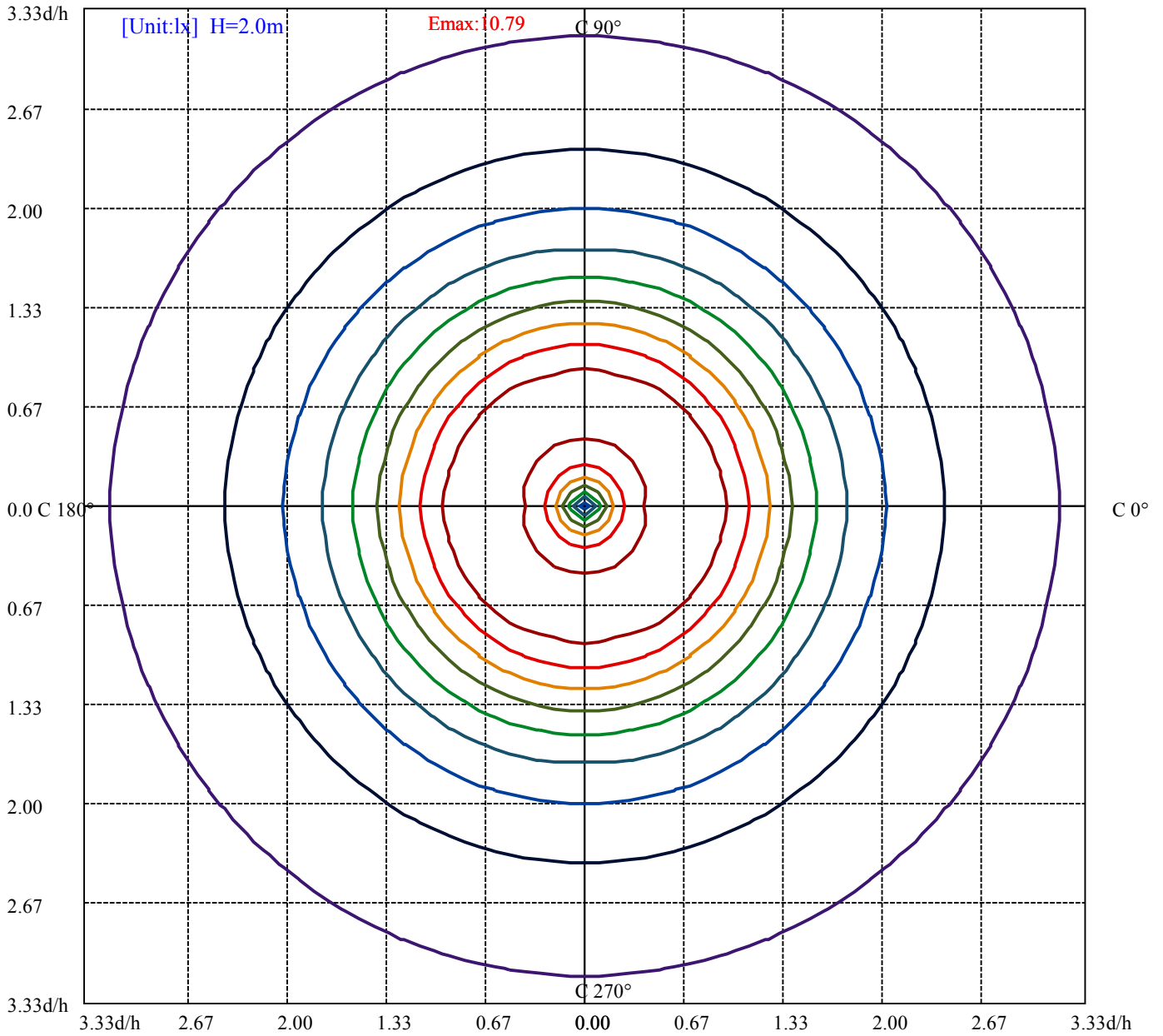
C90/C270: ———

Field angle(10%Imax):C0/180Left:260.3 Right:80.3
:C90/270Left:256.3 Right:76.3

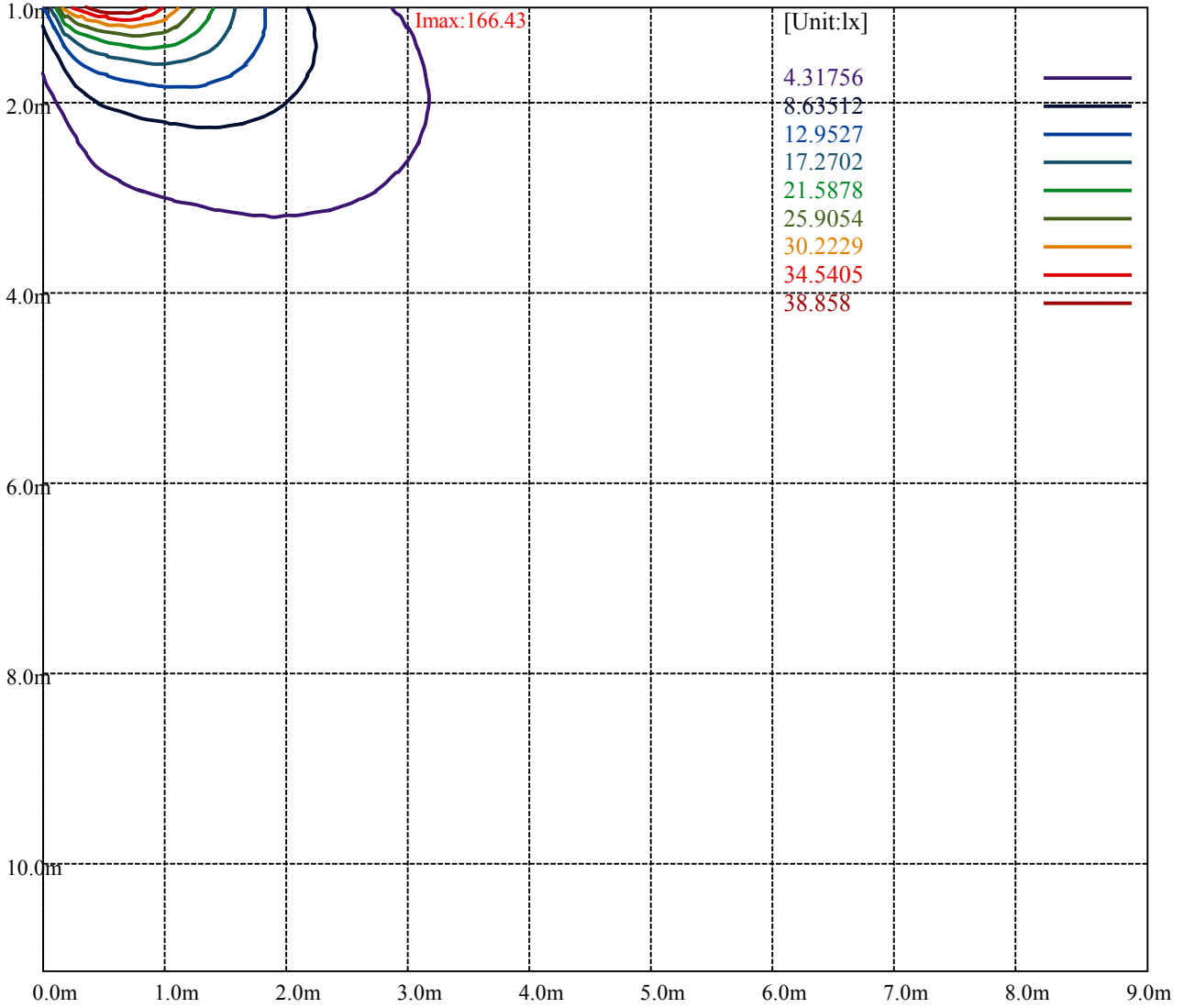
Beam Angle(50%Imax):C0/180Left:231.2 Right:51.2
:C90/270Left:231.2 Right:51.2



Max , Ave Beam angle of C0 plane 346.34



(10%Emax) 1.07939	—
(20%Emax) 2.158777	—
(30%Emax) 3.238175	—
(40%Emax) 4.31755	—
(50%Emax) 5.39695	—
(60%Emax) 6.476325	—
(70%Emax) 7.555725	—
(80%Emax) 8.635125	—
(90%Emax) 9.7145	—



Luminance Table

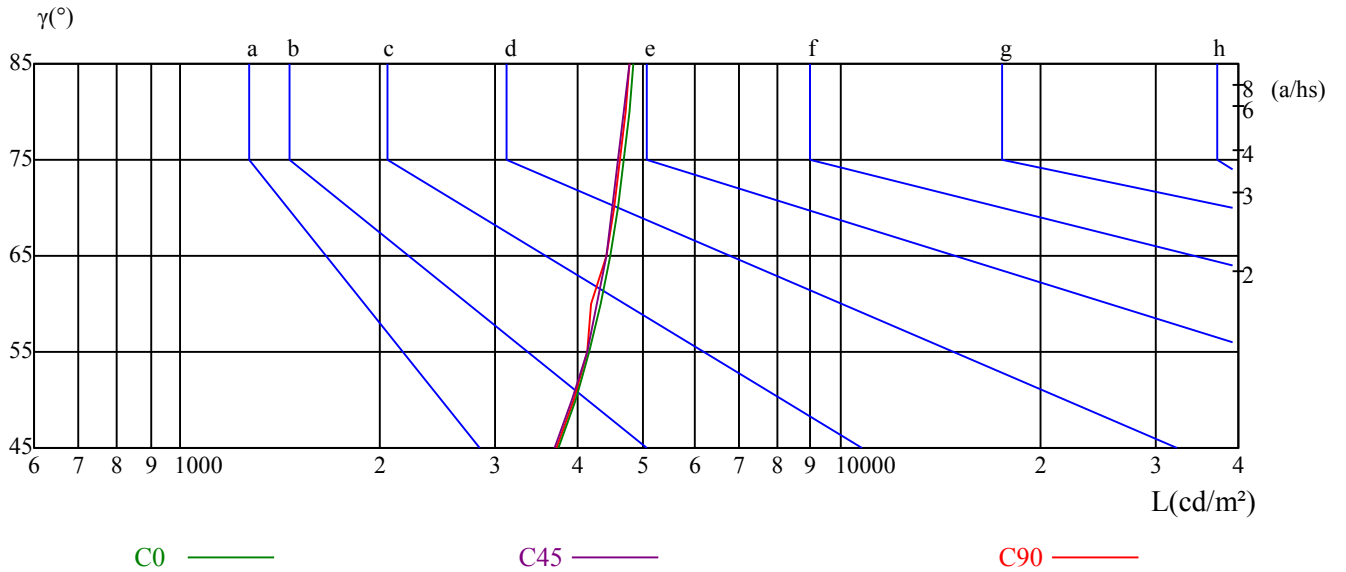
γ	45	50	55	60	65	70	75	80	85
C0	3745	3961	4163	4334	4468	4584	4682	4776	4861
C45	3687	3927	4123	4273	4403	4506	4605	4696	4781
C90	3699	3931	4131	4191	4415	4522	4624	4718	4796

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
55294	54644	54493	97372	96173	95778	299594	295630	294699

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



RHOCC	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	1.07	1.07	1.07	0.99	0.99	0.99	0.84	0.84	0.84	0.70	0.70	0.70	0.57	0.57	0.57	0.51
1	0.85	0.79	0.73	0.78	0.72	0.67	0.64	0.60	0.56	0.52	0.49	0.46	0.41	0.38	0.36	0.30
2	0.71	0.62	0.55	0.65	0.57	0.51	0.53	0.47	0.42	0.42	0.38	0.34	0.32	0.29	0.26	0.21
3	0.60	0.51	0.43	0.55	0.46	0.40	0.45	0.38	0.33	0.36	0.30	0.26	0.27	0.23	0.19	0.15
4	0.52	0.42	0.35	0.48	0.39	0.32	0.39	0.32	0.26	0.31	0.25	0.21	0.23	0.19	0.15	0.11
5	0.46	0.36	0.29	0.42	0.33	0.26	0.34	0.27	0.21	0.27	0.21	0.17	0.20	0.16	0.12	0.09
6	0.40	0.31	0.24	0.37	0.28	0.22	0.30	0.23	0.18	0.24	0.18	0.14	0.18	0.13	0.10	0.07
7	0.36	0.27	0.20	0.33	0.25	0.19	0.27	0.20	0.15	0.21	0.16	0.12	0.16	0.12	0.08	0.06
8	0.32	0.24	0.18	0.30	0.22	0.16	0.24	0.18	0.13	0.19	0.14	0.10	0.14	0.10	0.07	0.05
9	0.29	0.21	0.15	0.27	0.19	0.14	0.22	0.16	0.11	0.17	0.12	0.09	0.13	0.09	0.06	0.04
10	0.27	0.19	0.13	0.24	0.17	0.12	0.20	0.14	0.10	0.16	0.11	0.08	0.12	0.08	0.05	0.03

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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	12.20	14.71	32.03	42.98	50.42	56.34	63.97	74.02	86.58
15.0	11.57	15.61	31.76	43.06	50.06	56.07	63.16	73.30	85.86
30.0	11.30	16.42	31.67	42.17	48.99	54.46	62.00	71.86	85.77
45.0	10.68	15.79	31.31	40.73	47.46	52.84	60.74	71.33	84.25
60.0	10.59	15.07	29.97	39.30	45.22	50.87	58.77	70.34	83.35
75.0	11.39	15.25	29.07	37.41	42.98	48.18	55.89	67.38	81.64
90.0	11.84	14.09	27.63	35.71	40.73	45.76	53.83	65.58	80.21
105.0	13.46	13.73	26.47	34.09	38.49	43.78	51.95	63.79	79.49
120.0	15.16	13.28	24.85	32.21	36.78	42.44	51.41	62.98	79.31
135.0	9.24	12.02	23.78	31.13	35.17	41.27	50.06	62.62	78.68
150.0	15.97	11.21	22.70	29.97	38.22	39.57	49.17	62.98	79.58
165.0	15.88	11.13	21.80	28.98	33.02	38.94	48.90	62.98	79.94
180.0	12.20	23.51	30.32	34.63	41.36	52.13	67.02	83.08	98.24
195.0	11.57	22.70	30.24	34.99	41.81	52.84	67.11	82.09	97.25
210.0	11.30	22.43	30.68	34.99	41.81	53.11	66.93	82.45	97.16
225.0	10.68	23.06	30.95	35.62	42.35	52.66	67.38	82.27	96.63
240.0	10.59	24.04	31.40	36.52	43.33	53.83	67.74	83.26	97.88
255.0	11.39	24.94	32.93	38.31	45.67	56.34	69.44	84.51	98.78
270.0	11.84	26.83	34.90	41.09	48.27	58.68	71.77	86.31	100.30
285.0	13.46	28.26	37.41	44.05	51.14	61.46	73.75	88.01	91.33
300.0	15.16	29.79	39.39	46.29	47.73	62.89	75.81	89.18	102.82
315.0	9.24	31.58	40.91	47.73	54.28	63.43	76.26	89.00	102.37
330.0	15.97	32.21	41.72	49.08	55.45	63.88	75.99	89.09	101.83
345.0	15.88	32.48	42.62	49.61	55.98	63.97	74.56	88.19	100.93
360.0	12.20	14.71	32.03	42.98	50.42	56.34	63.97	74.02	86.58
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	100.39	114.03	126.50	137.54	146.51	153.78	158.80	162.93	165.71
15.0	99.41	113.22	125.34	136.55	145.43	152.16	157.46	161.40	164.18
30.0	98.51	112.15	124.44	135.30	143.82	150.55	155.75	159.61	162.12
45.0	97.70	111.07	123.99	134.40	143.01	149.56	154.76	158.62	161.67
60.0	97.16	110.89	123.45	134.13	142.83	149.47	154.85	158.80	161.76
75.0	96.36	110.80	123.54	133.95	142.74	149.47	154.67	159.43	161.85
90.0	96.45	110.26	122.91	133.77	142.38	148.84	154.76	159.25	162.03
105.0	95.19	109.82	121.93	132.87	141.49	148.04	153.96	158.62	161.85
120.0	94.56	109.46	122.29	133.05	141.13	148.21	154.14	158.80	162.03
135.0	95.19	109.73	122.02	131.71	140.32	147.41	153.60	158.35	161.67
150.0	94.83	108.92	121.03	130.81	139.96	147.32	153.51	158.53	161.85
165.0	93.22	107.21	118.97	129.46	138.35	145.79	151.80	157.10	160.42
180.0	112.06	123.18	134.04	143.37	150.82	156.92	161.85	165.08	166.52
195.0	110.53	122.29	132.87	142.20	149.65	155.66	160.33	163.92	165.53
210.0	110.35	122.20	132.33	141.75	149.02	154.58	159.34	162.57	164.36
225.0	109.90	121.84	132.33	141.40	149.11	154.85	159.34	162.30	164.45
240.0	110.35	122.91	133.14	141.93	149.38	155.57	159.70	162.75	164.27
255.0	111.61	123.72	133.95	142.83	150.19	156.20	160.78	161.31	164.99
270.0	113.40	125.16	135.65	137.90	151.44	157.63	161.94	164.81	165.80
285.0	115.29	126.68	137.09	145.61	152.61	158.44	162.66	165.53	166.43
300.0	116.27	127.94	138.08	146.60	153.60	159.43	163.83	166.52	166.88
315.0	115.47	127.67	137.81	146.42	153.60	159.07	163.11	165.80	165.80
330.0	114.93	127.13	137.27	145.79	152.97	158.44	162.30	164.72	165.62
345.0	114.12	126.41	137.00	145.52	152.79	157.63	161.40	164.09	165.17
360.0	100.39	114.03	126.50	137.54	146.51	153.78	158.80	162.93	165.71

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Appendix Page: 11 Total:12

Intensity data(cd)

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	166.61	166.25	163.65	159.70	154.58	147.86	140.14	130.45	119.15
15.0	165.17	164.45	161.94	157.37	152.79	146.42	138.52	128.48	116.99
30.0	163.29	162.30	160.42	155.93	151.44	144.89	136.73	126.41	115.92
45.0	162.39	161.67	159.52	155.03	150.37	144.18	135.56	125.78	114.93
60.0	162.39	161.76	159.61	155.84	150.91	144.27	135.65	126.23	115.20
75.0	163.11	162.48	160.42	156.56	151.18	145.07	136.10	126.86	115.65
90.0	163.11	162.66	160.24	157.55	152.34	145.79	136.82	127.58	116.99
105.0	163.20	162.66	160.69	157.81	152.88	146.15	137.99	128.12	117.98
120.0	163.20	162.84	161.31	158.08	154.14	147.41	138.61	128.84	118.97
135.0	163.47	163.20	161.58	158.80	154.41	148.39	139.24	130.18	119.77
150.0	163.38	163.29	161.85	159.16	155.48	148.93	140.68	130.90	120.58
165.0	162.03	162.39	161.04	158.62	154.32	147.68	140.32	130.99	121.03
180.0	166.25	165.35	162.03	157.63	150.73	142.38	133.14	122.02	110.71
195.0	165.53	164.09	161.04	156.11	149.47	142.02	133.41	122.64	110.35
210.0	164.90	162.75	160.33	155.48	149.11	141.31	132.69	122.20	111.16
225.0	164.63	163.02	159.61	154.94	149.83	142.02	139.69	123.27	110.80
240.0	164.54	163.38	162.30	154.23	149.29	141.58	132.42	122.20	109.82
255.0	164.45	163.20	159.43	154.94	148.84	141.04	131.62	121.57	109.37
270.0	165.26	163.02	159.43	155.39	149.11	141.40	131.80	120.40	108.65
285.0	165.53	163.29	160.15	155.21	149.11	140.59	131.44	120.40	108.38
300.0	165.89	163.47	160.24	155.66	149.11	140.77	130.90	119.95	107.39
315.0	165.89	163.11	159.97	154.76	148.04	139.78	129.82	119.33	105.33
330.0	164.90	161.58	158.26	153.69	146.24	138.08	129.01	117.35	104.43
345.0	164.27	161.22	157.63	152.34	145.25	137.54	128.12	116.36	103.71
360.0	166.61	166.25	163.65	159.70	154.58	147.86	140.14	130.45	119.15
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	106.85	93.13	80.03	64.51	49.52	36.87	29.07	20.19	7.45
15.0	104.70	91.78	78.41	63.07	48.00	36.96	30.50	23.78	10.14
30.0	104.34	91.33	77.79	62.09	47.82	36.61	30.77	24.49	14.00
45.0	103.45	90.71	76.62	61.01	47.46	36.61	30.95	24.67	15.16
60.0	103.18	90.71	75.36	60.11	46.38	37.05	31.40	24.85	15.43
75.0	103.27	89.99	75.18	60.20	46.56	37.50	31.76	24.94	15.34
90.0	104.70	92.32	76.98	61.46	47.55	37.50	31.04	24.31	15.34
105.0	105.87	93.04	77.70	63.07	48.45	37.77	31.04	25.21	16.42
120.0	107.21	93.85	79.04	63.70	50.51	39.21	30.95	24.76	17.23
135.0	108.29	94.92	80.48	64.96	51.05	39.21	31.04	24.67	16.78
150.0	109.28	96.45	80.84	64.24	50.60	38.94	30.15	23.51	16.33
165.0	109.55	97.16	80.75	64.51	49.70	38.49	29.16	22.88	16.15
180.0	96.99	80.84	63.34	48.54	36.78	27.54	21.17	14.44	2.69
195.0	96.36	80.21	64.51	49.61	37.14	34.45	20.64	13.46	2.33
210.0	97.08	93.31	64.24	50.78	37.77	26.47	19.92	11.75	1.26
225.0	97.25	81.46	64.69	50.15	37.05	25.30	18.57	8.88	0.72
240.0	96.18	81.11	64.60	48.36	32.57	19.74	14.18	6.64	0.54
255.0	95.55	79.85	62.89	48.90	33.46	18.48	7.90	3.95	0.54
270.0	95.19	79.31	63.34	47.28	30.41	13.64	4.04	2.15	0.54
285.0	93.85	78.86	62.98	45.31	28.80	11.48	1.97	0.81	0.54
300.0	92.23	77.61	59.12	42.62	26.56	10.59	0.90	0.54	0.63
315.0	92.23	76.98	58.23	41.54	25.39	9.60	0.90	0.54	0.63
330.0	91.15	76.71	61.55	45.49	30.95	14.89	3.50	0.99	0.63
345.0	89.90	75.63	61.46	46.20	33.38	23.69	10.86	2.96	1.26
360.0	106.85	93.13	80.03	64.51	49.52	36.87	29.07	20.19	7.45

Intensity data(cd)

C/ γ ($^{\circ}$)	180.0
0.0	1.70
15.0	1.17
30.0	1.79
45.0	2.24
60.0	3.23
75.0	3.68
90.0	5.02
105.0	6.28
120.0	6.73
135.0	7.00
150.0	7.36
165.0	6.64
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	1.70