
乐达凯

Client:

LumCAT: CADP36L30UDSN

Luminaire: LED 灯具

Report No:

Ballast type:

Test No:

Voltage(V): 120.020

LampCAT:

Current(A): 0.244

Lamp flux(lm): 2110.9

Power (W): 29.000

Number of Lamps: 1

PF: 0.991

Length(mm): 900

Width(mm): 60

Phm Type: C

Height(mm): 60

Photometric Results

Lumens(lm): 2110.86, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 72.79

Central intensity(cd): 233.502, Maximum intensity(cd): 233.588

Angle of maximum intensity: C=0.0 γ =10.0

Beam Angle(50%Imax): [C0/180]Total=354.6

[C90/270]Total=356.4

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

[C90/270]Total=N.A.

Maximum s/h(1/2): C0_180=1.53 C90_270=1.26

Maximum s/h(1/4): C0_180=1.74 C90_270=1.38

Up flux rate of lamp(%): 47.02%

Down flux rate of lamp(%): 52.98%

Up flux rate of LUM(%): 47.02%

Down flux rate of LUM(%): 52.98%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 30.114%

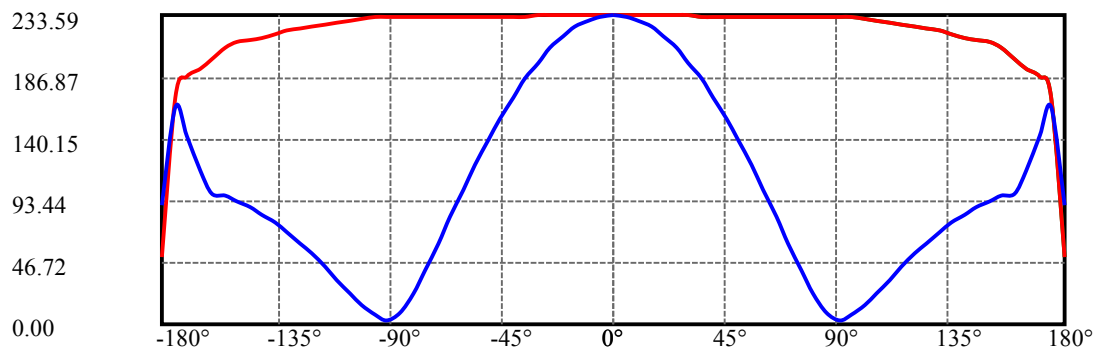
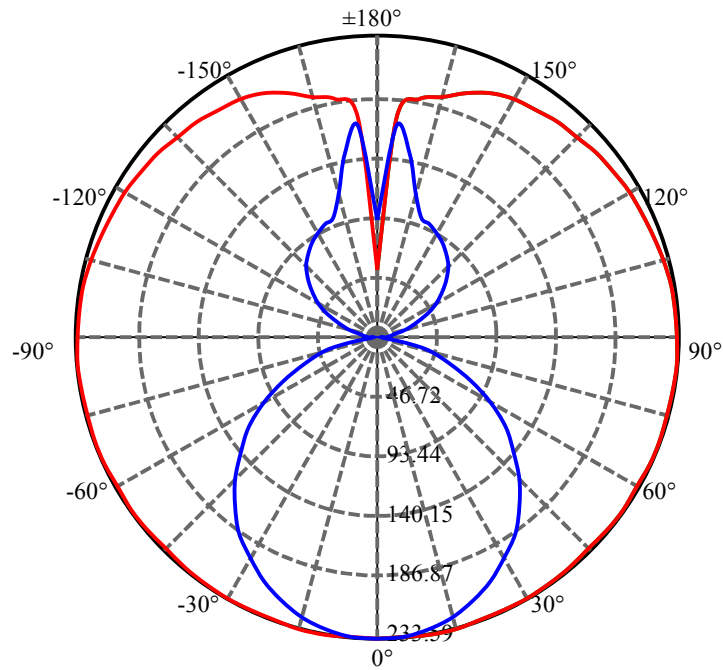
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	233.502	0.000	0	0.00%	0.00%
5.0	232.917	5.576	5.576	0.26%	0.26%
10.0	231.527	16.615	22.191	0.79%	1.05%
15.0	229.042	27.321	49.511	1.29%	2.35%
20.0	225.704	37.477	86.989	1.78%	4.12%
25.0	221.377	46.890	133.879	2.22%	6.34%
30.0	216.259	55.383	189.262	2.62%	8.97%
35.0	210.205	62.800	252.062	2.98%	11.94%
40.0	203.531	69.029	321.091	3.27%	15.21%
45.0	196.587	74.085	395.176	3.51%	18.72%
50.0	189.017	77.917	473.093	3.69%	22.41%
55.0	181.336	80.527	553.62	3.81%	26.23%
60.0	173.635	82.050	635.671	3.89%	30.11%
65.0	165.803	82.518	718.188	3.91%	34.02%
70.0	158.541	82.126	800.314	3.89%	37.91%
75.0	152.331	81.257	881.571	3.85%	41.76%
80.0	146.755	80.027	961.598	3.79%	45.55%
85.0	143.058	78.749	1040.347	3.73%	49.29%
90.0	141.607	77.943	1118.29	3.69%	52.98%
95.0	142.175	77.702	1195.992	3.68%	56.66%
100.0	144.339	77.853	1273.845	3.69%	60.35%
105.0	147.331	78.043	1351.887	3.70%	64.04%
110.0	151.222	78.037	1429.924	3.70%	67.74%
115.0	155.642	77.700	1507.624	3.68%	71.42%
120.0	159.708	76.662	1584.287	3.63%	75.05%
125.0	163.514	74.712	1658.998	3.54%	78.59%
130.0	166.559	71.769	1730.767	3.40%	81.99%
135.0	169.744	67.955	1798.722	3.22%	85.21%
140.0	172.314	63.335	1862.057	3.00%	88.21%
145.0	174.279	57.826	1919.883	2.74%	90.95%
150.0	175.411	51.494	1971.378	2.44%	93.39%
155.0	172.608	44.042	2015.42	2.09%	95.48%
160.0	165.315	35.442	2050.862	1.68%	97.16%
165.0	160.386	26.842	2077.704	1.27%	98.43%
170.0	158.845	18.937	2096.641	0.90%	99.33%
175.0	158.521	11.353	2107.994	0.54%	99.86%
180.0	80.899	2.862	2110.856	0.14%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	189.26	8.97%	8.97%
0-40	321.09	15.21%	15.21%
0-60	635.67	30.11%	30.11%
0-90	1118.29	52.98%	52.98%
0-120	1584.29	75.05%	75.05%
0-180	2110.86	100.00%	100.00%
60-90	482.62	22.86%	22.86%
90-120	466.00	22.08%	22.08%
90-130	612.48	29.02%	29.02%
90-150	853.09	40.41%	40.41%
90-180	989.70	46.89%	46.89%
0-127.07	1688.69	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	22.19
10-20	64.80
20-30	102.27
30-40	131.83
40-50	152.00
50-60	162.58
60-70	164.64
70-80	161.28
80-90	156.69
90-100	155.55
100-110	156.08
110-120	154.36
120-130	146.48
130-140	131.29
140-150	109.32
150-160	79.48
160-170	45.78
170-180	11.35

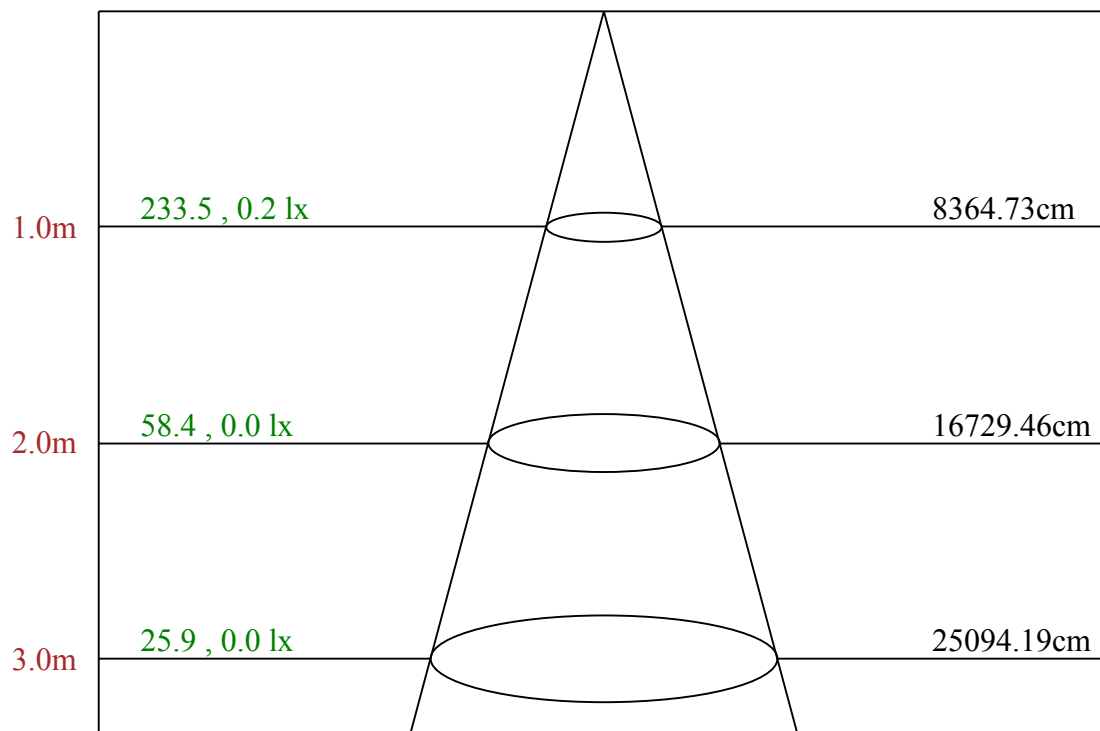
C0(Max): C0/C180: C90/C270: 

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

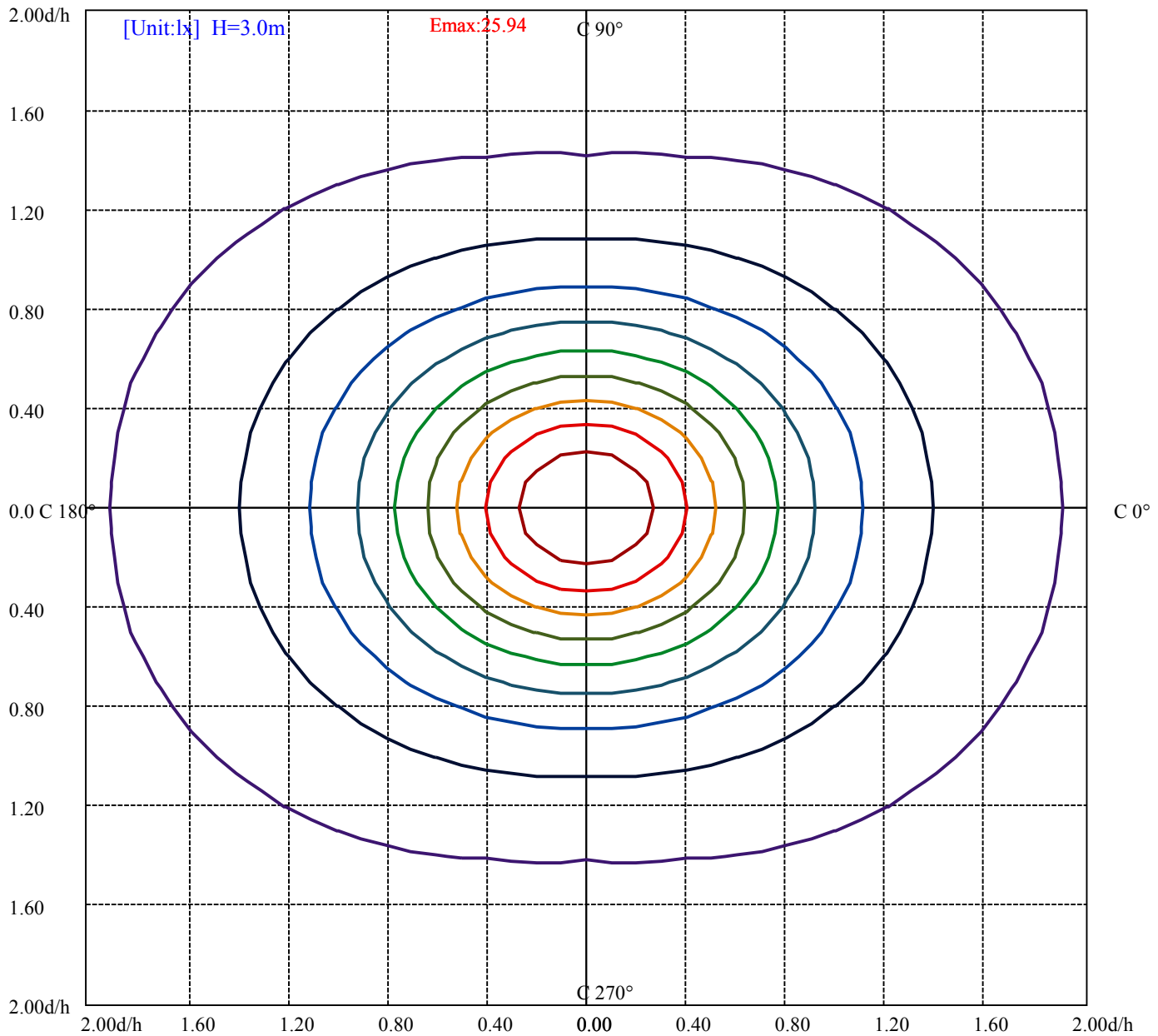
:C90/270Left:0.0 Right:0.0

Beam Angle(50%Imax):C0/180Left:177.3 Right:177.3

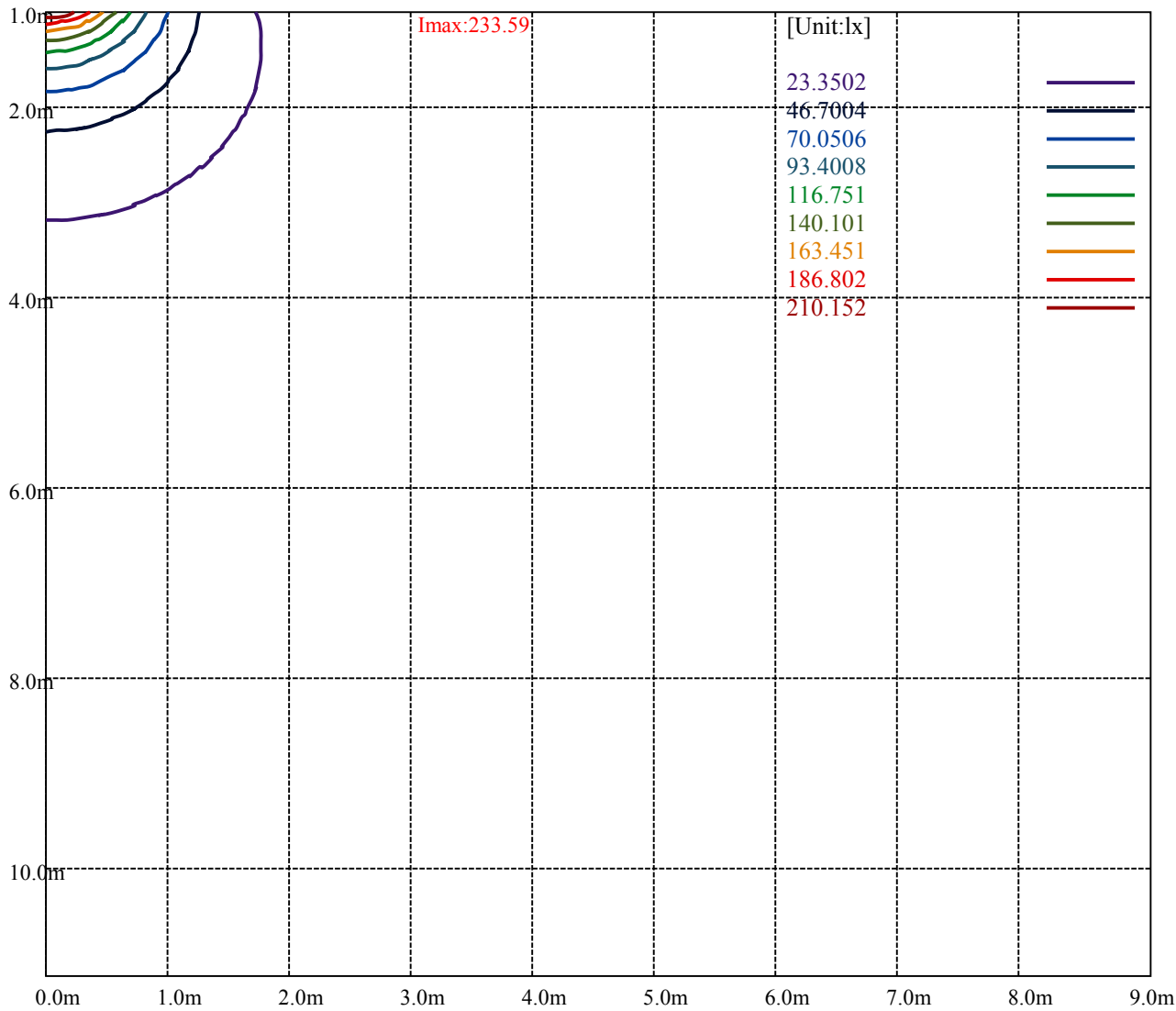
:C90/270Left:178.2 Right:178.2



Max , Ave Beam angle of C0 plane 177.26



(10%Emax) 2.594467	—
(20%Emax) 5.188933	—
(30%Emax) 7.7834	—
(40%Emax) 10.37786	—
(50%Emax) 12.97233	—
(60%Emax) 15.56678	—
(70%Emax) 18.16122	—
(80%Emax) 20.75567	—
(90%Emax) 23.35022	—



Luminance Table

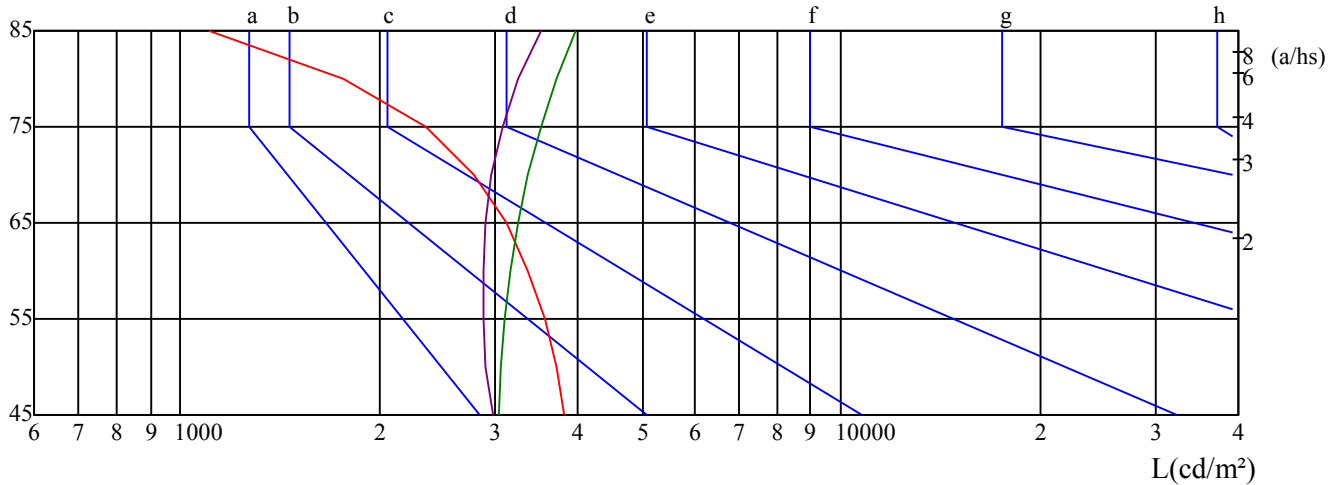
γ	45	50	55	60	65	70	75	80	85
C0	3044	3052	3089	3153	3244	3364	3516	3719	3975
C45	2967	2905	2879	2869	2898	2960	3076	3254	3515
C90	3823	3702	3563	3365	3109	2775	2348	1764	1107

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
10202	3553	7586	16639	2933	11733	49403	1951	33815

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

 $\gamma(^{\circ})$ 

C0 ———

C45 ———

C90 ———

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	1.08	1.08	1.08	1.00	1.00	1.00	0.85	0.85	0.85	0.71	0.71	0.71	0.59	0.59	0.59	0.53
1	0.89	0.84	0.79	0.82	0.78	0.73	0.69	0.66	0.63	0.57	0.55	0.52	0.47	0.45	0.43	0.37
2	0.76	0.68	0.62	0.70	0.63	0.58	0.59	0.54	0.49	0.49	0.45	0.41	0.39	0.36	0.34	0.29
3	0.66	0.57	0.50	0.61	0.53	0.47	0.51	0.45	0.40	0.42	0.37	0.34	0.34	0.30	0.27	0.23
4	0.58	0.49	0.42	0.53	0.45	0.39	0.45	0.38	0.33	0.37	0.32	0.28	0.30	0.26	0.23	0.19
5	0.51	0.42	0.35	0.47	0.39	0.33	0.40	0.33	0.28	0.33	0.28	0.24	0.26	0.22	0.19	0.16
6	0.45	0.37	0.30	0.42	0.34	0.28	0.36	0.29	0.24	0.29	0.24	0.20	0.24	0.20	0.17	0.14
7	0.41	0.32	0.26	0.38	0.30	0.24	0.32	0.26	0.21	0.27	0.22	0.18	0.22	0.18	0.15	0.12
8	0.37	0.29	0.23	0.34	0.27	0.21	0.29	0.23	0.19	0.24	0.19	0.16	0.20	0.16	0.13	0.10
9	0.34	0.26	0.20	0.31	0.24	0.19	0.27	0.21	0.16	0.22	0.17	0.14	0.18	0.14	0.12	0.09
10	0.31	0.23	0.18	0.29	0.22	0.17	0.24	0.19	0.15	0.21	0.16	0.13	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	233.50	232.90	232.90	231.95	231.78	231.35	231.09	230.23	229.97
15.0	233.50	233.16	232.38	231.68	230.81	230.12	228.99	227.87	226.91
30.0	233.50	233.33	232.37	230.63	229.06	226.62	224.00	220.69	217.64
45.0	233.50	232.89	231.48	228.76	225.52	221.13	216.13	210.51	203.93
60.0	233.50	233.15	230.95	227.17	222.34	215.84	208.02	199.49	189.30
75.0	233.50	232.53	230.24	226.18	220.53	212.32	202.88	192.03	179.49
90.0	233.50	232.88	230.57	225.96	219.75	211.50	201.48	189.76	176.28
105.0	233.50	233.24	231.28	227.55	221.78	214.50	205.45	194.79	182.54
120.0	233.50	233.59	231.91	229.00	224.85	219.12	212.32	204.03	194.85
135.0	233.50	233.77	233.24	231.56	228.92	225.39	221.07	215.70	209.53
150.0	233.50	233.59	233.68	232.97	232.00	230.77	228.48	226.36	223.54
165.0	233.50	234.03	234.29	234.82	234.64	234.99	234.47	233.85	233.06
180.0	233.50	233.85	234.28	234.79	234.96	235.14	234.96	234.71	234.71
195.0	233.50	233.59	234.02	234.02	233.94	233.33	232.90	231.77	230.73
210.0	233.50	233.50	233.07	232.11	230.28	228.62	225.83	223.13	219.82
225.0	233.50	232.62	231.40	228.59	225.34	220.60	215.69	209.99	203.32
240.0	233.50	232.18	229.90	225.68	220.41	213.38	205.12	195.27	184.82
255.0	233.50	232.09	228.56	223.62	216.65	207.82	197.85	185.58	172.61
270.0	233.50	231.64	228.27	222.50	214.96	205.56	194.11	181.60	166.52
285.0	233.50	231.82	228.62	223.47	216.37	207.58	197.37	185.20	172.33
300.0	233.50	231.74	228.74	224.68	218.85	211.97	203.94	194.94	185.14
315.0	233.50	232.36	230.33	227.42	223.63	218.78	213.32	207.59	201.33
330.0	233.50	232.53	231.74	229.89	228.30	225.92	224.60	220.54	217.81
345.0	233.50	233.06	232.45	232.01	231.22	230.69	230.17	229.29	228.59
360.0	233.50	232.90	232.90	231.95	231.78	231.35	231.09	230.23	229.97
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	230.06	229.72	229.72	230.06	230.49	230.23	229.97	230.49	230.15
15.0	225.96	225.44	224.57	224.23	223.62	223.19	222.75	222.41	221.80
30.0	214.50	211.62	208.40	205.35	203.08	200.64	199.16	197.33	196.46
45.0	197.44	190.77	184.10	177.43	171.55	165.85	161.55	158.12	155.84
60.0	178.93	167.68	156.08	144.65	133.49	123.30	114.42	107.48	102.65
75.0	165.82	150.73	134.93	118.25	101.31	84.36	68.74	55.15	45.09
90.0	161.29	144.43	126.95	107.97	87.92	67.07	47.11	28.12	12.33
105.0	169.13	154.48	138.24	122.08	105.48	88.96	73.51	59.66	50.07
120.0	184.88	174.02	162.73	151.08	139.96	129.46	120.72	113.57	108.28
135.0	203.53	196.66	190.31	183.43	177.79	172.15	167.74	164.57	162.10
150.0	220.72	217.98	215.16	212.43	209.87	207.84	205.99	205.02	204.40
165.0	232.45	232.10	231.31	230.78	230.34	229.99	229.82	229.02	229.46
180.0	234.79	234.62	234.96	235.05	235.14	235.39	235.14	234.79	234.88
195.0	230.03	229.60	228.99	228.30	227.78	227.35	227.17	226.57	225.96
210.0	216.94	214.24	210.75	207.88	205.79	203.69	201.78	200.73	199.86
225.0	196.30	189.80	183.48	176.82	171.20	166.11	162.16	159.27	157.60
240.0	174.18	163.11	151.95	140.17	129.27	119.61	111.79	105.90	102.47
255.0	157.61	141.72	125.58	108.46	91.60	75.63	60.71	49.24	42.27
270.0	150.11	132.99	114.80	94.75	74.26	54.21	34.87	17.48	6.03
285.0	158.04	142.32	126.52	109.74	93.13	77.86	70.14	53.80	47.50
300.0	174.46	163.52	152.05	145.96	130.69	122.13	115.16	110.22	107.04
315.0	197.80	188.72	182.91	177.00	171.98	167.66	164.48	162.19	161.04
330.0	214.72	212.60	209.69	207.93	205.81	204.49	203.61	203.08	202.73
345.0	228.41	227.53	227.88	227.44	227.71	227.80	227.44	227.88	227.36
360.0	230.06	229.72	229.72	230.06	230.49	230.23	229.97	230.49	230.15

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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	230.49	229.63	228.77	227.74	226.36	225.41	224.21	222.92	221.71		
15.0	221.71	221.37	220.41	219.63	218.85	217.64	216.95	215.91	215.21		
30.0	195.94	195.24	195.24	194.72	194.80	195.76	196.37	197.77	198.90		
45.0	154.53	153.74	154.35	156.11	158.74	162.16	166.20	170.41	174.89		
60.0	100.19	100.19	102.56	107.30	113.28	120.84	129.10	138.15	146.94		
75.0	40.15	41.12	46.77	55.95	66.98	78.98	89.75	99.81	108.28		
90.0	3.19	4.35	10.56	18.72	27.59	37.70	46.13	53.76	61.30		
105.0	45.28	45.81	51.14	60.37	68.81	79.91	92.51	102.01	100.06		
120.0	105.72	105.63	107.57	111.46	117.19	123.10	129.72	137.14	145.25		
135.0	161.04	160.43	160.78	161.93	163.60	166.33	169.68	172.15	175.24		
150.0	203.96	203.17	202.46	202.11	201.58	201.23	201.58	202.46	201.85		
165.0	228.85	228.41	227.27	226.22	224.20	222.27	221.21	220.07	218.32		
180.0	234.88	234.10	233.16	232.04	230.15	228.17	226.02	224.30	221.20		
195.0	225.79	225.01	224.49	223.27	222.15	220.33	218.85	217.29	214.26		
210.0	199.16	199.16	198.81	198.81	198.64	198.73	198.90	198.55	198.73		
225.0	156.90	157.07	158.74	160.93	163.04	166.64	169.97	173.92	176.99		
240.0	101.85	102.82	107.04	112.40	119.08	126.81	131.30	142.54	151.68		
255.0	40.95	45.27	53.04	57.71	72.80	85.69	96.98	97.51	99.63		
270.0	3.55	9.85	18.54	28.39	39.48	50.75	59.79	69.29	78.87		
285.0	46.61	50.70	59.04	68.99	80.97	94.02	102.72	111.87	120.39		
300.0	106.78	108.37	111.99	117.81	124.87	132.37	140.49	149.05	157.52		
315.0	161.04	161.22	162.63	165.01	168.63	172.33	176.56	179.73	183.70		
330.0	202.55	202.55	202.64	202.90	203.52	204.67	205.37	206.34	206.61		
345.0	227.44	227.01	226.13	225.43	224.02	223.58	222.62	221.39	219.90		
360.0	230.49	229.63	228.77	227.74	226.36	225.41	224.21	222.92	221.71		
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0		
0.0	219.99	218.70	217.07	214.92	211.82	207.86	201.07	190.91	177.49		
15.0	214.52	213.57	212.18	210.53	206.98	203.17	197.71	189.47	180.98		
30.0	200.12	201.08	201.95	201.51	199.07	196.46	192.71	187.05	180.86		
45.0	179.62	184.19	187.43	188.66	188.40	186.82	185.68	184.01	178.92		
60.0	155.11	161.26	165.83	167.24	168.91	171.55	174.45	171.37	169.17		
75.0	116.75	123.81	130.25	136.87	142.43	142.78	140.58	145.08	160.35		
90.0	68.58	74.61	80.55	85.43	88.63	91.11	108.59	138.04	161.46		
105.0	97.57	105.39	116.13	127.58	119.41	107.34	111.07	135.84	158.12		
120.0	154.26	154.52	148.78	145.87	143.75	123.72	115.43	134.14	153.81		
135.0	178.85	182.91	186.87	181.32	170.65	154.79	126.93	121.47	146.77		
150.0	201.58	201.67	201.85	202.11	193.91	180.24	168.16	126.72	124.42		
165.0	215.86	213.93	211.64	209.27	206.64	193.47	183.55	179.78	110.43		
180.0	217.93	214.57	211.91	210.27	206.66	193.58	185.41	183.95	163.55		
195.0	211.83	208.97	207.15	207.15	201.00	187.13	183.40	165.46	99.94		
210.0	198.64	198.90	200.29	200.90	189.75	180.77	160.64	120.37	133.27		
225.0	180.68	184.98	185.94	177.61	172.43	158.21	131.19	130.22	149.61		
240.0	158.19	154.41	149.31	153.71	150.72	134.46	128.13	136.39	156.96		
255.0	110.75	123.28	135.55	143.75	133.43	119.49	124.34	142.34	162.55		
270.0	86.32	92.00	97.06	101.23	104.51	105.66	123.76	147.62	166.96		
285.0	128.12	135.66	143.83	150.76	153.60	149.78	146.76	152.35	166.38		
300.0	164.40	169.08	171.73	174.11	175.96	177.38	177.02	170.58	168.20		
315.0	188.19	191.72	194.28	195.60	194.10	190.84	187.67	182.38	174.97		
330.0	207.67	208.55	208.90	209.08	207.84	203.61	195.76	188.18	180.42		
345.0	218.32	217.79	216.21	214.37	212.00	207.34	199.27	188.56	178.90		
360.0	219.99	218.70	217.07	214.92	211.82	207.86	201.07	190.91	177.49		

Intensity data(cd)

C/γ(°)	180.0
0.0	102.90
15.0	152.63
30.0	167.87
45.0	174.53
60.0	176.38
75.0	178.70
90.0	180.09
105.0	178.90
120.0	176.14
135.0	169.60
150.0	159.34
165.0	124.48
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	102.90