
乐达凯

Client:

LumCAT: SYDV2807LAJUDBK

Luminaire: LED lamp

Report No:

Ballast type:

Test No: LCZP24100221

Voltage(V): 120.180

LampCAT:

Current(A): 0.229

Lamp flux(lm): 1754.3

Power (W): 27.260

Number of Lamps: 1

PF: 0.991

Length(mm): 710

Width(mm): 110

Phm Type: C

Height(mm): 80

Photometric Results

Lumens(lm): 1754.25, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 64.35

Central intensity(cd): 145.631, Maximum intensity(cd): 185.282

Angle of maximum intensity: C=75.0 γ =50.0

Beam Angle(50%Imax): [C0/180]Total=316.4

[C90/270]Total=286.9

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

[C90/270]Total=N.A.

Maximum s/h(1/2): C0_180=1.84 C90_270=1.84

Maximum s/h(1/4): C0_180=1.93 C90_270=1.98

Up flux rate of lamp(%): 42.23%

Down flux rate of lamp(%): 57.77%

Up flux rate of LUM(%): 42.23%

Down flux rate of LUM(%): 57.77%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 31.586%

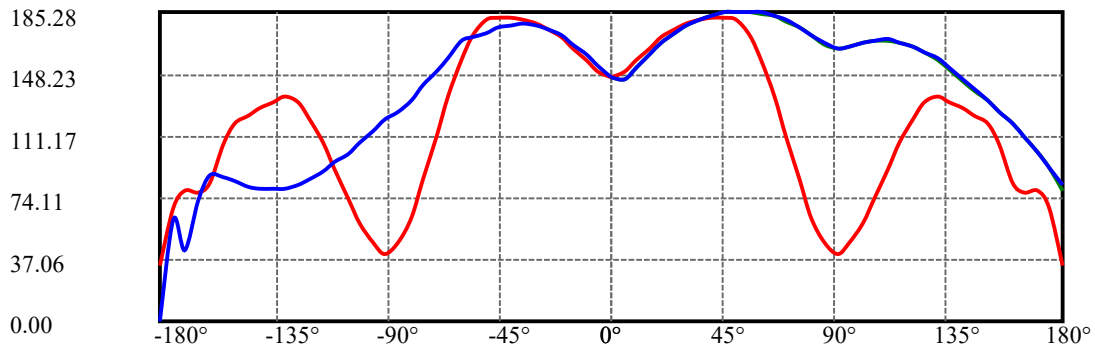
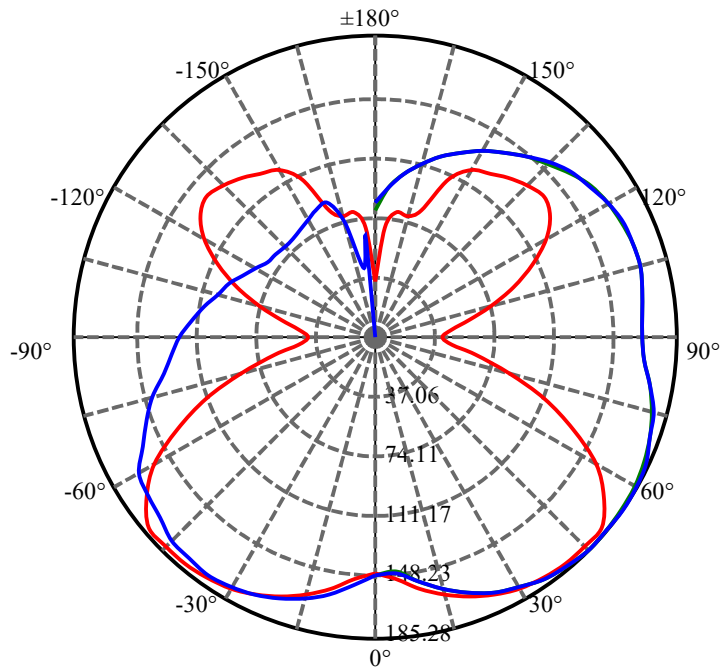
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	146.038	0.000	0	0.00%	0.00%
5.0	149.342	3.531	3.531	0.20%	0.20%
10.0	156.387	10.937	14.468	0.62%	0.82%
15.0	163.245	18.960	33.428	1.08%	1.91%
20.0	169.324	27.408	60.837	1.56%	3.47%
25.0	174.123	36.021	96.858	2.05%	5.52%
30.0	177.788	44.535	141.393	2.54%	8.06%
35.0	180.322	52.734	194.127	3.01%	11.07%
40.0	181.487	60.365	254.492	3.44%	14.51%
45.0	181.556	67.220	321.712	3.83%	18.34%
50.0	180.812	73.222	394.934	4.17%	22.51%
55.0	178.018	78.022	472.956	4.45%	26.96%
60.0	173.012	81.140	554.095	4.63%	31.59%
65.0	165.457	82.282	636.378	4.69%	36.28%
70.0	156.682	81.568	717.945	4.65%	40.93%
75.0	147.049	79.391	797.336	4.53%	45.45%
80.0	136.596	75.896	873.232	4.33%	49.78%
85.0	127.515	71.765	944.997	4.09%	53.87%
90.0	122.118	68.352	1013.349	3.90%	57.77%
95.0	119.266	66.093	1079.442	3.77%	61.53%
100.0	119.278	64.818	1144.26	3.69%	65.23%
105.0	120.485	64.154	1208.414	3.66%	68.89%
110.0	122.628	63.546	1271.96	3.62%	72.51%
115.0	124.407	62.551	1334.511	3.57%	76.07%
120.0	125.610	60.780	1395.29	3.46%	79.54%
125.0	125.771	58.106	1453.396	3.31%	82.85%
130.0	124.656	54.451	1507.848	3.10%	85.95%
135.0	121.808	49.802	1557.649	2.84%	88.79%
140.0	118.653	44.523	1602.173	2.54%	91.33%
145.0	114.839	38.956	1641.129	2.22%	93.55%
150.0	110.864	33.236	1674.365	1.89%	95.45%
155.0	104.581	27.265	1701.63	1.55%	97.00%
160.0	95.221	20.956	1722.586	1.19%	98.20%
165.0	86.002	14.935	1737.521	0.85%	99.05%
170.0	79.466	9.815	1747.336	0.56%	99.61%
175.0	75.813	5.555	1752.891	0.32%	99.92%
180.0	37.535	1.355	1754.246	0.08%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	141.39	8.06%	8.06%
0-40	254.49	14.51%	14.51%
0-60	554.10	31.59%	31.59%
0-90	1013.35	57.77%	57.77%
0-120	1395.29	79.54%	79.54%
0-180	1754.25	100.00%	100.00%
60-90	459.25	26.18%	26.18%
90-120	381.94	21.77%	21.77%
90-130	494.50	28.19%	28.19%
90-150	661.02	37.68%	37.68%
90-180	739.54	42.16%	42.16%
0-120.70	1403.40	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	14.47
10-20	46.37
20-30	80.56
30-40	113.10
40-50	140.44
50-60	159.16
60-70	163.85
70-80	155.29
80-90	140.12
90-100	130.91
100-110	127.70
110-120	123.33
120-130	112.56
130-140	94.32
140-150	72.19
150-160	48.22
160-170	24.75
170-180	5.55



C75(Max): —————

C0/C180: —————

C90/C270: —————

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

:C90/270Left:0.0 Right:0.0

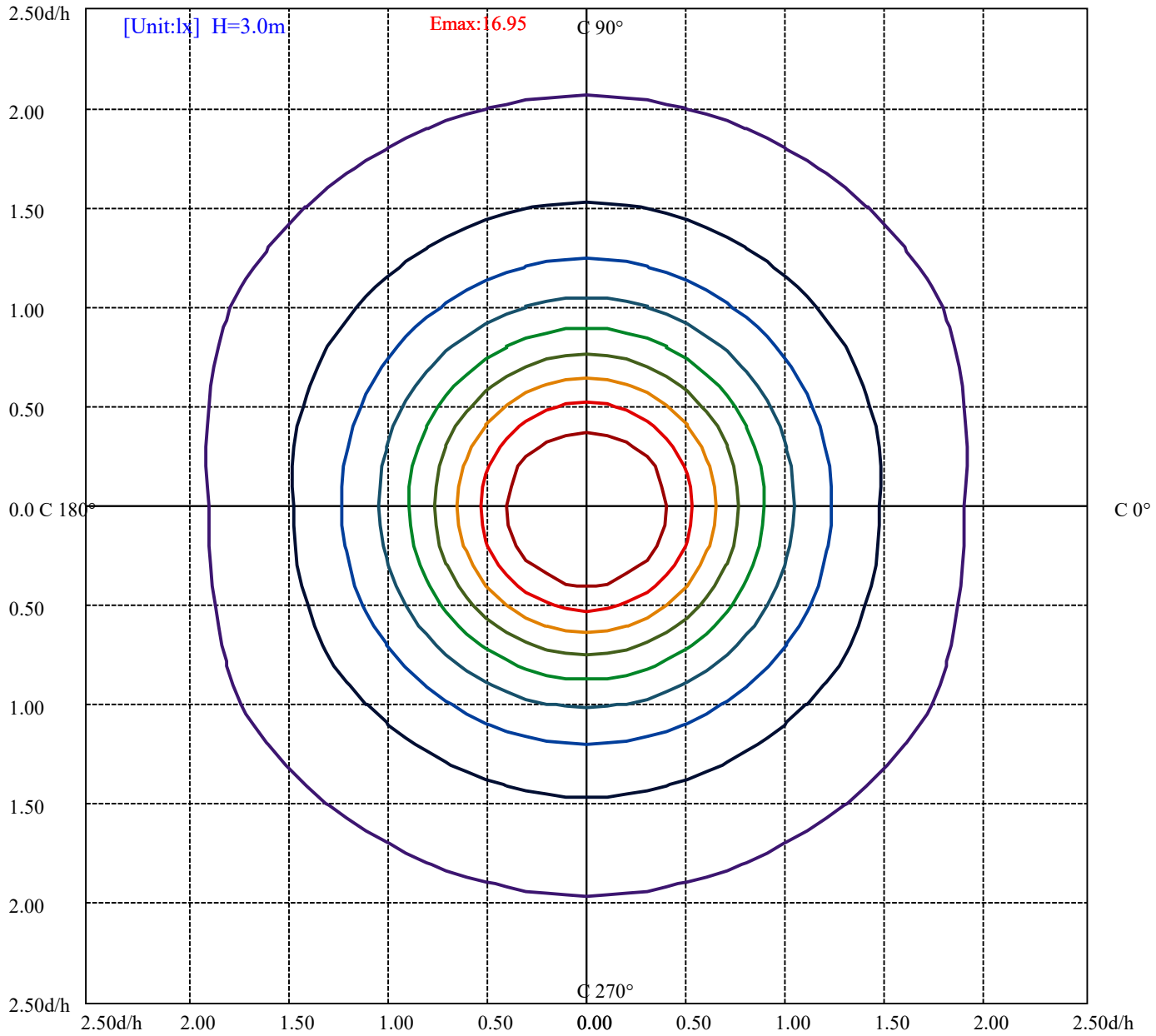
Beam Angle(50%Imax):C0/180Left:203.2 Right:113.2

:C90/270Left:167.3 Right:119.6

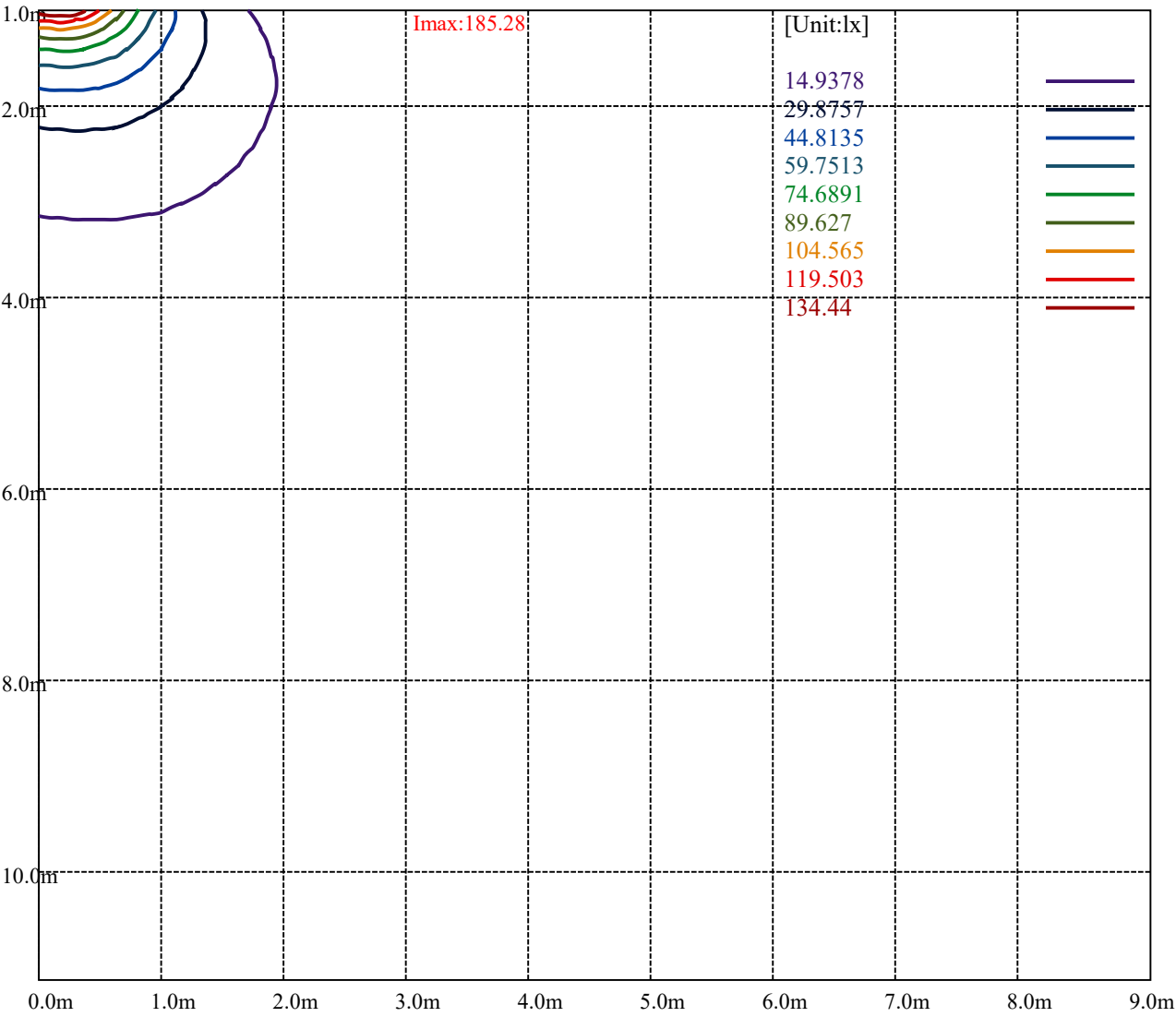


Max , Ave

Beam angle of C75 plane 341.63



(10%Emax) 1.695078	—
(20%Emax) 3.390144	—
(30%Emax) 5.085222	—
(40%Emax) 6.780289	—
(50%Emax) 8.475367	—
(60%Emax) 10.17043	—
(70%Emax) 11.86556	—
(80%Emax) 13.56056	—
(90%Emax) 15.25567	—



Luminance Table

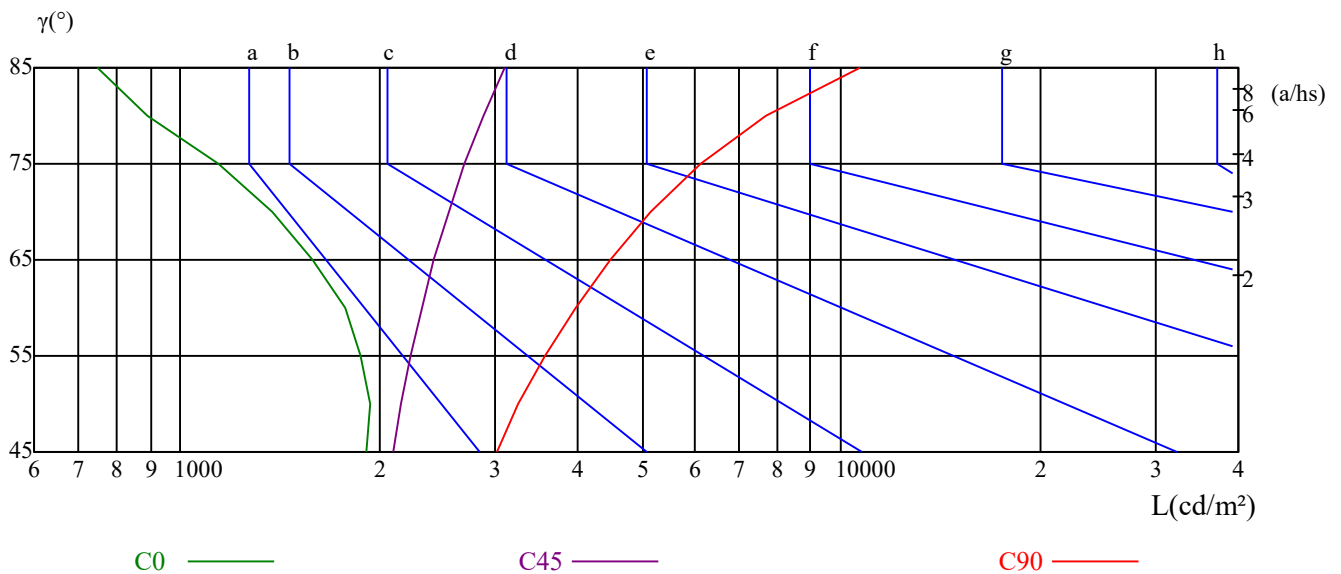
γ	45	50	55	60	65	70	75	80	85
C0	1909	1933	1877	1771	1589	1381	1140	893	750
C45	2100	2155	2230	2318	2424	2547	2686	2869	3099
C90	3008	3252	3563	3958	4474	5149	6152	7710	10680

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4068	5172	5263	4235	7864	8039	6981	21415	21682

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	0.75	0.75	0.75	0.63	0.63	0.63	0.58
1	0.89	0.84	0.79	0.83	0.78	0.74	0.71	0.67	0.64	0.60	0.57	0.54	0.50	0.47	0.45	0.40
2	0.76	0.68	0.61	0.70	0.63	0.57	0.60	0.54	0.50	0.50	0.46	0.42	0.41	0.38	0.35	0.31
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	0.48	0.40	0.53	0.44	0.38	0.45	0.38	0.33	0.38	0.32	0.28	0.31	0.27	0.23	0.19
5	0.50	0.41	0.34	0.47	0.38	0.32	0.40	0.33	0.28	0.33	0.28	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	0.29	0.23	0.30	0.24	0.20	0.24	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	0.21	0.17	0.22	0.18	0.14	0.12
8	0.36	0.28	0.22	0.34	0.26	0.20	0.29	0.22	0.18	0.24	0.19	0.15	0.20	0.16	0.13	0.10
9	0.33	0.25	0.19	0.31	0.23	0.18	0.26	0.20	0.16	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

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Intensity data(cd)										Appendix Page: 10 Total:12	
C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0		
0.0	145.63	146.74	153.91	161.09	167.62	172.86	177.09	180.41	181.79		
15.0	146.28	146.64	154.00	161.27	167.89	173.60	177.83	180.96	183.53		
30.0	146.37	146.09	152.62	160.35	167.43	173.41	178.11	181.60	184.09		
45.0	145.72	144.44	151.43	159.43	166.42	172.49	177.55	181.23	183.90		
60.0	146.18	144.07	150.97	158.79	166.05	172.03	177.09	180.68	183.35		
75.0	145.82	143.98	151.33	158.88	166.61	172.13	176.91	180.68	183.17		
90.0	146.55	145.36	151.61	159.80	166.97	172.86	177.46	181.23	183.44		
105.0	146.64	145.63	152.71	160.63	167.43	173.05	177.74	181.42	183.90		
120.0	146.00	146.37	152.71	160.72	167.80	173.78	178.47	181.69	183.63		
135.0	146.46	147.29	154.65	162.10	168.91	173.69	178.01	181.42	183.07		
150.0	145.91	148.02	155.57	163.11	173.69	174.43	178.66	181.51	182.80		
165.0	144.90	148.21	155.84	162.19	168.63	173.78	177.74	180.41	182.06		
180.0	145.63	151.98	159.43	165.69	171.94	175.90	178.84	180.77	181.97		
195.0	146.28	152.90	160.35	166.79	172.13	176.63	179.67	181.60	182.15		
210.0	146.37	153.36	160.53	166.97	172.22	176.17	179.21	180.96	181.14		
225.0	145.72	152.81	159.98	166.15	171.21	175.44	177.83	179.67	180.13		
240.0	146.18	153.63	160.35	166.05	170.65	174.61	176.91	178.20	177.83		
255.0	145.82	153.08	159.80	165.78	170.84	174.61	177.00	178.38	177.74		
270.0	146.55	153.36	160.26	166.15	171.02	174.89	177.55	178.47	177.55		
285.0	146.64	153.45	160.17	166.05	171.21	174.89	177.83	178.93	179.30		
300.0	146.00	152.90	159.71	165.69	167.16	174.61	177.00	179.03	179.03		
315.0	146.46	152.62	159.61	165.69	170.56	174.43	177.28	179.30	179.49		
330.0	145.91	151.52	158.51	164.77	169.92	174.52	177.74	179.58	180.22		
345.0	144.90	149.77	157.22	163.75	169.46	174.15	177.37	179.58	180.41		
360.0	145.63	146.74	153.91	161.09	167.62	172.86	177.09	180.41	181.79		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	182.43	182.06	173.51	159.61	137.44	114.72	89.24	65.13	48.02		
15.0	184.18	184.36	181.60	171.21	156.95	141.31	126.77	111.78	99.54		
30.0	185.19	185.10	185.01	184.09	180.96	174.33	168.91	161.45	154.37		
45.0	185.65	185.28	185.56	184.82	183.35	180.96	176.36	172.03	165.96		
60.0	184.45	184.82	184.82	184.36	182.71	180.41	176.82	171.94	166.79		
75.0	184.64	185.28	185.01	184.64	182.89	180.04	176.36	171.30	166.88		
90.0	184.82	185.19	185.28	184.73	183.35	180.13	176.63	171.39	166.33		
105.0	185.10	185.28	185.19	184.36	182.43	179.49	175.53	170.65	165.69		
120.0	184.27	184.18	184.09	183.07	181.33	178.75	174.24	169.83	164.77		
135.0	183.99	184.18	183.63	182.52	180.41	177.09	172.86	167.89	162.65		
150.0	183.44	183.17	182.52	181.42	176.63	170.01	163.11	154.83	147.84		
165.0	182.43	182.34	179.03	168.54	153.54	137.54	121.25	105.52	93.28		
180.0	181.69	180.22	169.27	152.99	131.10	106.53	81.97	58.97	47.01		
195.0	181.97	181.42	175.53	163.57	148.94	134.32	117.48	100.64	86.11		
210.0	180.77	180.59	178.75	174.98	168.63	160.81	151.43	137.63	123.18		
225.0	179.39	177.74	174.43	169.92	165.04	157.22	149.77	139.47	130.82		
240.0	176.54	174.79	170.84	166.15	160.26	152.71	144.25	135.51	129.81		
255.0	175.71	173.05	169.37	164.12	157.68	150.51	142.04	139.10	126.04		
270.0	176.17	172.86	169.83	168.17	158.05	149.40	141.31	132.11	125.21		
285.0	176.91	174.43	170.75	165.87	159.15	151.79	142.96	134.04	128.15		
300.0	177.37	175.16	171.67	166.88	161.73	154.37	146.28	137.54	131.00		
315.0	179.30	177.74	175.25	171.21	166.05	159.25	150.97	140.85	130.91		
330.0	180.13	179.58	178.01	174.52	167.53	160.35	150.23	135.14	119.60		
345.0	180.77	180.68	173.51	160.53	144.80	128.34	112.42	93.56	80.41		
360.0	182.43	182.06	173.51	159.61	137.44	114.72	89.24	65.13	48.02		

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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	39.37	45.81	56.85	71.11	87.77	104.60	119.23	129.07	134.96
15.0	94.76	98.80	106.81	116.01	125.39	133.03	139.65	143.79	143.61
30.0	150.42	153.17	157.59	161.36	163.29	162.65	160.72	157.31	152.16
45.0	164.03	165.04	167.16	168.17	167.99	166.88	163.57	159.06	154.55
60.0	163.94	165.04	166.97	168.54	168.26	167.07	164.49	160.53	155.29
75.0	163.94	164.67	166.97	168.26	168.08	167.07	164.77	161.45	156.76
90.0	163.57	164.86	166.88	168.17	168.63	167.34	164.77	161.45	157.31
105.0	163.94	165.23	167.25	168.54	168.54	166.88	164.95	161.73	157.04
120.0	162.65	164.12	166.15	167.89	167.80	166.79	164.21	160.17	154.65
135.0	161.91	163.48	165.50	166.79	166.70	164.95	161.64	156.30	152.25
150.0	145.17	147.75	153.08	157.31	159.89	159.34	157.68	154.37	149.68
165.0	90.43	93.65	100.83	109.75	119.60	128.34	135.33	140.11	140.76
180.0	42.13	49.40	61.09	75.71	93.10	109.75	123.00	132.20	134.68
195.0	74.33	66.05	65.32	68.91	78.38	90.53	103.13	113.43	117.94
210.0	110.58	94.66	88.23	83.72	82.98	83.63	87.31	90.89	93.47
225.0	122.91	111.41	100.55	95.12	92.09	89.97	89.51	89.88	91.54
240.0	123.46	115.00	112.05	101.93	98.44	94.57	91.72	89.05	88.23
255.0	121.90	114.44	107.27	102.02	97.70	93.38	88.69	84.82	82.25
270.0	120.79	113.80	106.90	100.09	95.12	89.70	84.82	81.14	79.85
285.0	123.37	116.19	109.29	104.60	100.28	95.77	91.17	87.31	85.28
300.0	125.94	117.48	110.58	108.00	105.52	101.93	98.07	94.76	92.09
315.0	123.37	112.70	103.68	100.64	98.62	96.78	96.23	97.15	98.99
330.0	106.35	93.47	88.59	86.85	87.49	89.61	93.10	95.77	96.96
345.0	71.57	66.15	67.07	72.13	81.42	95.22	106.90	116.74	121.44
360.0	39.37	45.81	56.85	71.11	87.77	104.60	119.23	129.07	134.96
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	132.48	128.52	124.38	119.78	110.86	87.77	78.11	80.59	68.08
15.0	138.82	133.67	128.70	123.37	117.66	104.05	79.49	79.85	74.24
30.0	146.18	140.02	133.86	127.78	121.34	114.26	96.60	76.17	78.47
45.0	149.13	143.52	137.63	131.10	124.10	116.28	108.37	88.78	71.11
60.0	149.77	144.25	138.46	132.20	125.21	117.66	109.20	100.37	81.69
75.0	150.97	144.44	138.55	132.20	125.30	117.85	109.57	100.92	91.63
90.0	151.43	144.71	138.73	132.38	125.58	118.03	110.03	101.47	91.90
105.0	150.69	144.34	138.36	132.38	125.58	118.40	110.30	101.84	92.27
120.0	149.40	143.79	138.00	131.56	124.84	117.57	109.38	100.55	90.80
135.0	147.10	141.58	135.42	129.26	122.17	114.54	106.53	97.98	89.15
150.0	143.70	137.44	131.28	124.93	118.31	111.22	103.86	95.86	87.58
165.0	136.06	131.10	126.40	120.88	115.36	108.83	100.83	93.74	85.93
180.0	130.45	126.13	121.34	116.19	102.02	77.09	74.98	74.98	67.07
195.0	116.01	111.78	104.97	101.29	88.78	83.26	71.48	67.16	70.56
210.0	96.60	96.87	92.00	89.05	86.48	78.93	69.92	66.97	67.62
225.0	93.65	96.23	98.44	95.12	91.17	85.37	73.87	65.32	63.20
240.0	86.94	86.66	85.83	84.73	82.15	76.54	72.03	59.80	54.74
255.0	81.23	81.60	82.34	83.17	83.07	82.34	75.53	55.11	45.63
270.0	79.21	79.21	80.59	83.63	86.48	87.86	72.77	42.69	61.18
285.0	84.09	84.27	84.91	85.74	86.48	80.13	58.79	55.57	73.51
300.0	90.34	90.16	90.07	88.41	83.53	64.86	53.54	65.59	75.90
315.0	101.29	102.39	101.01	98.16	85.10	62.56	61.27	71.11	76.73
330.0	98.99	99.45	96.04	92.82	80.87	71.94	72.49	78.66	78.75
345.0	118.86	115.55	108.83	104.60	97.52	87.95	85.10	86.11	81.79
360.0	132.48	128.52	124.38	119.78	110.86	87.77	78.11	80.59	68.08

Intensity data(cd)

C/ $\gamma(^{\circ})$	180.0
0.0	67.89
15.0	70.93
30.0	64.77
45.0	70.75
60.0	61.82
75.0	74.43
90.0	82.25
105.0	82.52
120.0	82.61
135.0	81.33
150.0	80.87
165.0	80.68
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	67.89