
乐达凯

Client:

LumCAT: SYDV2807LAJUDBK

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.242

Lamp flux(lm): 1913.1

Power (W): 28.740

Number of Lamps: 1

PF: 0.992

Length(mm): 710

Width(mm): 110

Phm Type: C

Height(mm): 80

Photometric Results

Lumens(lm): 1913.10, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 66.57

Central intensity(cd): 159.155, Maximum intensity(cd): 202.393

Angle of maximum intensity: C=75.0 γ =50.0

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

[C90/270]Total=286.6

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

[C90/270]Total=N.A.

Maximum s/h(1/2): C0_180=1.83 C90_270=1.84

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

Up flux rate of lamp(%): 42.24%

Down flux rate of lamp(%): 57.76%

Up flux rate of LUM(%): 42.24%

Down flux rate of LUM(%): 57.76%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 31.587%

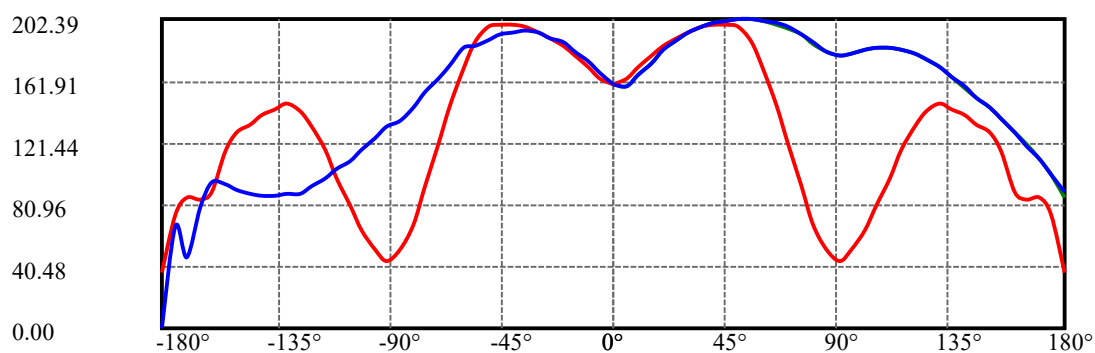
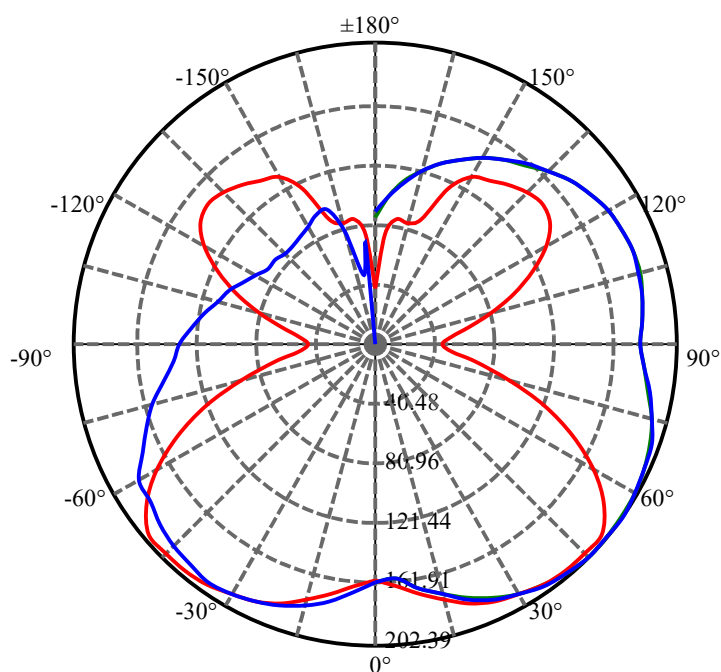
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	159.308	0.000	0	0.00%	0.00%
5.0	162.873	3.852	3.852	0.20%	0.20%
10.0	170.463	11.924	15.776	0.62%	0.82%
15.0	177.937	20.667	36.443	1.08%	1.90%
20.0	184.607	29.879	66.322	1.56%	3.47%
25.0	189.897	39.279	105.6	2.05%	5.52%
30.0	193.922	48.573	154.173	2.54%	8.06%
35.0	196.643	57.513	211.686	3.01%	11.07%
40.0	197.985	65.841	277.527	3.44%	14.51%
45.0	197.947	73.310	350.837	3.83%	18.34%
50.0	197.257	79.857	430.694	4.17%	22.51%
55.0	194.152	85.105	515.799	4.45%	26.96%
60.0	188.670	88.488	604.287	4.63%	31.59%
65.0	180.506	89.747	694.035	4.69%	36.28%
70.0	170.923	88.984	783.019	4.65%	40.93%
75.0	160.305	86.578	869.596	4.53%	45.45%
80.0	148.920	82.740	952.336	4.32%	49.78%
85.0	139.030	78.243	1030.579	4.09%	53.87%
90.0	133.051	74.498	1105.077	3.89%	57.76%
95.0	130.099	72.052	1177.13	3.77%	61.53%
100.0	130.061	70.692	1247.821	3.70%	65.23%
105.0	131.364	69.950	1317.771	3.66%	68.88%
110.0	133.817	69.314	1387.085	3.62%	72.50%
115.0	135.734	68.252	1455.337	3.57%	76.07%
120.0	136.999	66.302	1521.639	3.47%	79.54%
125.0	137.114	63.360	1585	3.31%	82.85%
130.0	135.887	59.359	1644.359	3.10%	85.95%
135.0	132.859	54.304	1698.663	2.84%	88.79%
140.0	129.371	48.554	1747.217	2.54%	91.33%
145.0	125.346	42.498	1789.715	2.22%	93.55%
150.0	120.899	36.261	1825.976	1.90%	95.45%
155.0	114.076	29.736	1855.712	1.55%	97.00%
160.0	103.803	22.852	1878.564	1.19%	98.19%
165.0	93.837	16.288	1894.852	0.85%	99.05%
170.0	86.669	10.707	1905.56	0.56%	99.61%
175.0	82.721	6.060	1911.619	0.32%	99.92%
180.0	40.900	1.478	1913.097	0.08%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	154.17	8.06%	8.06%
0-40	277.53	14.51%	14.51%
0-60	604.29	31.59%	31.59%
0-90	1105.08	57.76%	57.76%
0-120	1521.64	79.54%	79.54%
0-180	1913.10	100.00%	100.00%
60-90	500.79	26.18%	26.18%
90-120	416.56	21.77%	21.77%
90-130	539.28	28.19%	28.19%
90-150	720.90	37.68%	37.68%
90-180	806.54	42.16%	42.16%
0-120.70	1530.48	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	15.78
10-20	50.55
20-30	87.85
30-40	123.35
40-50	153.17
50-60	173.59
60-70	178.73
70-80	169.32
80-90	152.74
90-100	142.74
100-110	139.26
110-120	134.55
120-130	122.72
130-140	102.86
140-150	78.76
150-160	52.59
160-170	27.00
170-180	6.06

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

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

:C90/270Left:0.0 Right:0.0

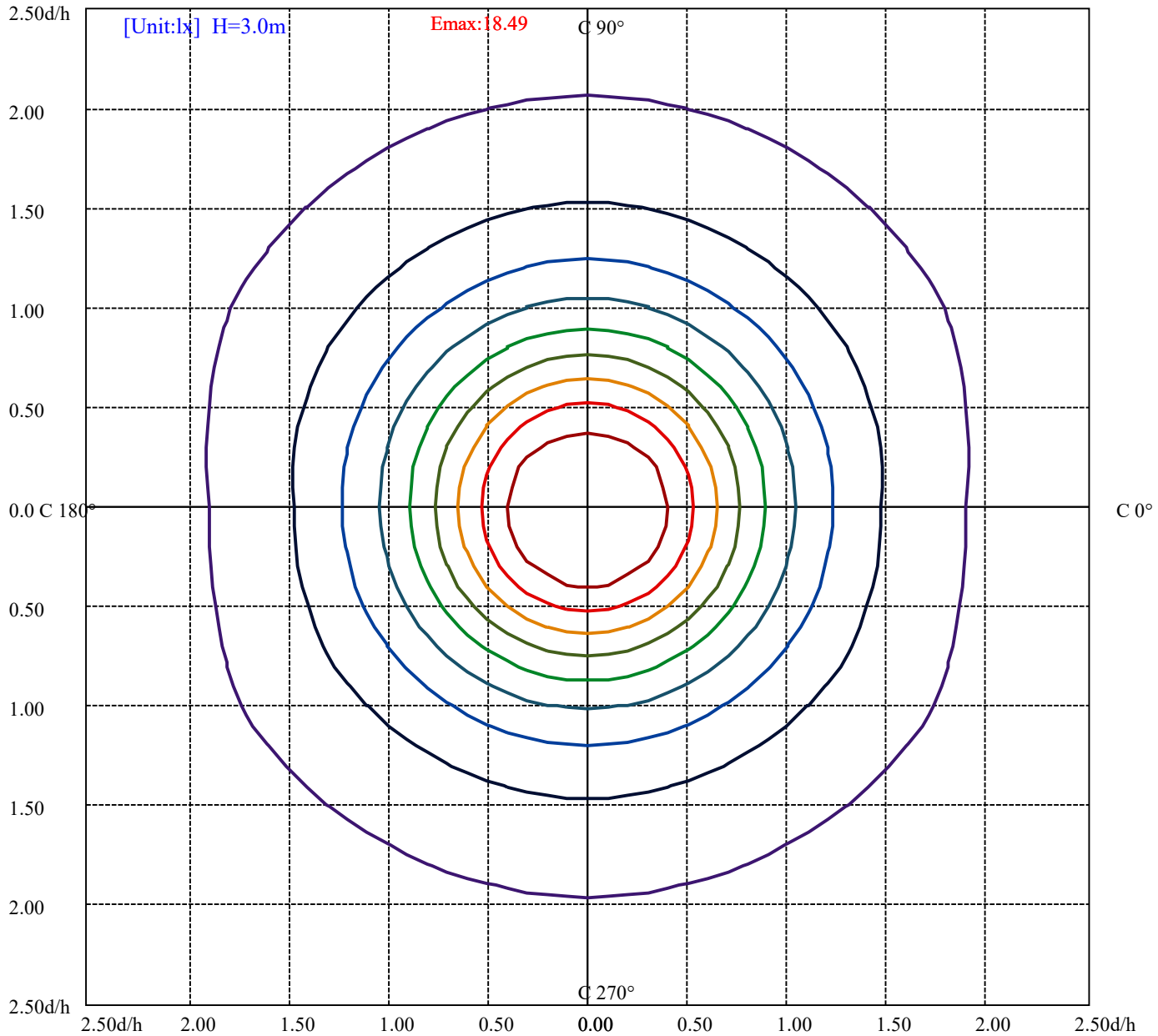
Beam Angle(50%Imax):C0/180Left:203.2 Right:113.2

:C90/270Left:167.1 Right:119.5

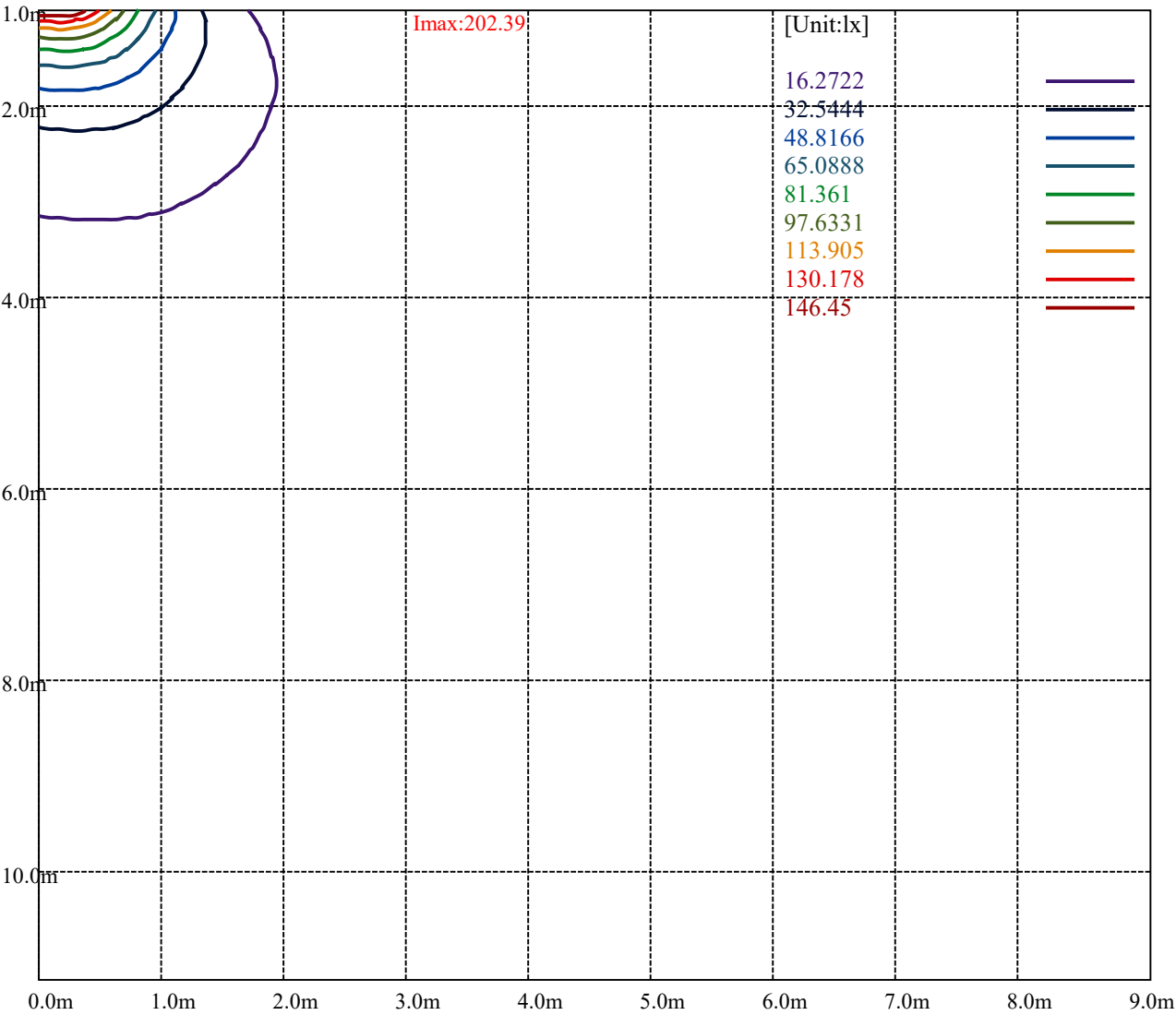


Max , Ave

Beam angle of C75 plane 341.74



(10%Emax) 1.848867	—
(20%Emax) 3.697733	—
(30%Emax) 5.5466	—
(40%Emax) 7.395455	—
(50%Emax) 9.244322	—
(60%Emax) 11.09319	—
(70%Emax) 12.94211	—
(80%Emax) 14.79089	—
(90%Emax) 16.63978	—



Luminance Table

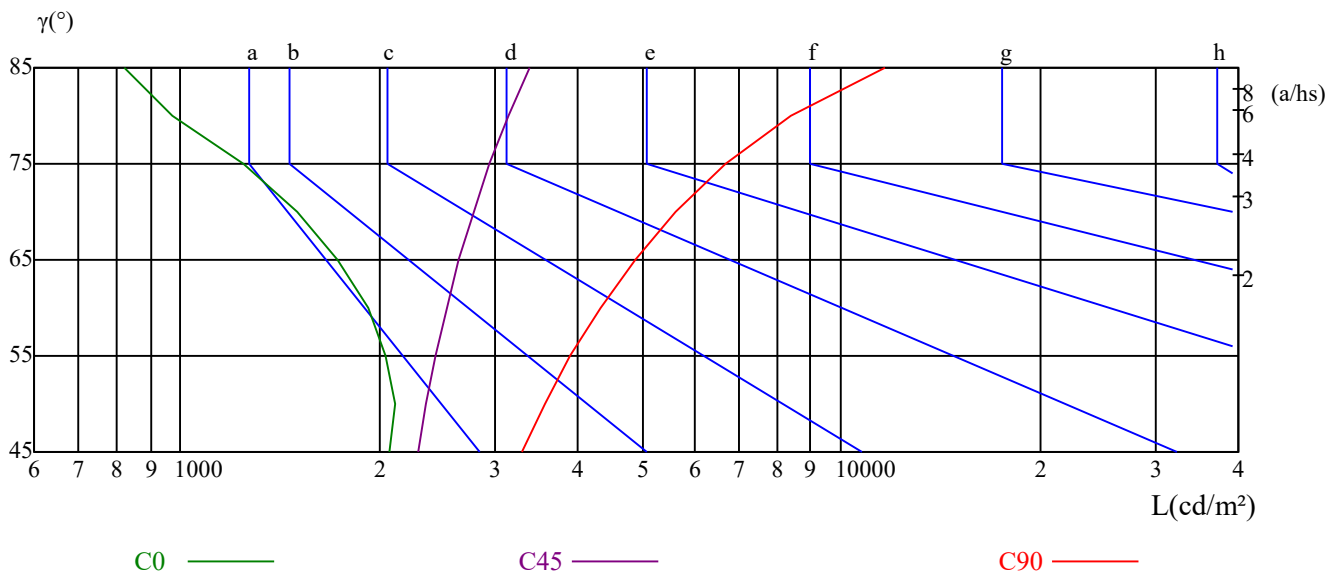
γ	45	50	55	60	65	70	75	80	85
C0	2078	2111	2050	1929	1731	1505	1244	973	820
C45	2289	2350	2433	2526	2642	2781	2929	3129	3384
C90	3279	3554	3892	4317	4871	5628	6696	8402	11637

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4432	5630	5742	4619	8579	8772	7636	23314	23652

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	159.15	160.07	167.43	175.71	183.07	188.59	193.19	196.87	197.79		
15.0	159.15	160.07	168.35	175.71	183.07	189.51	194.11	197.79	200.55		
30.0	159.15	159.15	166.51	174.79	182.15	189.51	194.11	197.79	200.55		
45.0	159.15	157.31	164.67	173.87	181.23	187.67	193.19	197.79	200.55		
60.0	159.15	157.31	164.67	172.95	181.23	187.67	193.19	196.87	199.63		
75.0	159.15	157.31	164.67	172.95	181.23	187.67	193.19	196.87	199.63		
90.0	160.07	158.23	165.59	173.87	182.15	188.59	193.19	197.79	199.63		
105.0	160.07	159.15	166.51	174.79	182.15	188.59	194.11	197.79	200.55		
120.0	159.15	159.15	166.51	175.71	183.07	189.51	195.03	197.79	200.55		
135.0	160.07	160.99	168.35	176.63	183.99	189.51	194.11	197.79	199.63		
150.0	159.15	160.99	169.27	177.55	189.51	190.43	195.03	197.79	199.63		
165.0	158.23	161.91	170.19	176.63	183.99	189.51	194.11	196.87	198.71		
180.0	159.15	165.59	173.87	180.31	187.67	192.27	195.03	196.87	198.71		
195.0	159.15	166.51	174.79	182.15	187.67	192.27	195.95	197.79	198.71		
210.0	159.15	167.43	174.79	182.15	187.67	192.27	195.03	197.79	197.79		
225.0	159.15	166.51	174.79	181.23	186.75	191.35	194.11	195.95	196.87		
240.0	159.15	167.43	174.79	181.23	185.83	190.43	193.19	194.11	194.11		
255.0	159.15	166.51	173.87	181.23	186.75	190.43	193.19	194.11	194.11		
270.0	160.07	167.43	174.79	181.23	186.75	190.43	193.19	195.03	193.19		
285.0	160.07	167.43	174.79	181.23	186.75	190.43	194.11	195.03	195.95		
300.0	159.15	166.51	173.87	180.31	182.15	190.43	193.19	195.03	195.03		
315.0	160.07	166.51	173.87	180.31	185.83	190.43	193.19	195.95	195.95		
330.0	159.15	165.59	172.95	179.39	184.91	190.43	194.11	195.95	196.87		
345.0	158.23	163.75	171.11	178.47	184.91	189.51	193.19	195.95	196.87		
360.0	159.15	160.07	167.43	175.71	183.07	188.59	193.19	196.87	197.79		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	198.71	198.71	189.51	173.87	149.96	125.12	97.52	70.84	52.44		
15.0	200.55	201.47	197.79	186.75	171.11	154.55	138.00	121.44	108.56		
30.0	202.39	201.47	201.47	200.55	197.79	190.43	183.99	175.71	168.35		
45.0	202.39	202.39	202.39	201.47	199.63	197.79	192.27	187.67	181.23		
60.0	201.47	201.47	201.47	201.47	199.63	196.87	193.19	187.67	182.15		
75.0	201.47	202.39	201.47	201.47	199.63	195.95	192.27	186.75	182.15		
90.0	201.47	202.39	202.39	201.47	199.63	196.87	192.27	186.75	181.23		
105.0	201.47	202.39	202.39	201.47	198.71	195.95	191.35	185.83	180.31		
120.0	200.55	200.55	200.55	199.63	197.79	195.03	190.43	184.91	179.39		
135.0	200.55	200.55	200.55	198.71	196.87	193.19	188.59	183.07	177.55		
150.0	199.63	199.63	198.71	197.79	192.27	185.83	177.55	169.27	160.99		
165.0	198.71	198.71	195.03	183.99	167.43	149.96	132.48	115.00	102.12		
180.0	197.79	196.87	184.91	166.51	142.60	115.92	89.24	64.40	51.52		
195.0	198.71	197.79	191.35	178.47	162.83	146.28	127.88	109.48	93.84		
210.0	196.87	196.87	195.03	190.43	183.99	175.71	164.67	149.96	134.32		
225.0	195.95	194.11	190.43	184.91	180.31	171.11	163.75	151.79	142.60		
240.0	192.27	190.43	186.75	181.23	174.79	166.51	157.31	148.12	141.68		
255.0	191.35	188.59	184.91	179.39	172.03	163.75	154.55	151.79	137.08		
270.0	192.27	188.59	184.91	183.07	172.03	162.83	154.55	144.44	136.16		
285.0	193.19	190.43	185.83	181.23	173.87	165.59	155.47	146.28	139.84		
300.0	193.19	191.35	186.75	182.15	176.63	168.35	159.15	149.96	142.60		
315.0	195.95	194.11	191.35	186.75	181.23	173.87	164.67	153.63	142.60		
330.0	196.87	195.95	194.11	190.43	183.07	174.79	163.75	147.20	130.64		
345.0	196.87	196.87	189.51	174.79	158.23	139.84	122.36	102.12	87.40		
360.0	198.71	198.71	189.51	173.87	149.96	125.12	97.52	70.84	52.44		

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Intensity data(cd)										Appendix Page: 11 Total:12	
C/ $\gamma(^{\circ})$	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0		
0.0	43.24	49.68	61.64	77.28	95.68	114.08	129.72	140.76	147.20		
15.0	103.04	107.64	116.84	126.96	137.08	145.36	152.71	156.39	156.39		
30.0	163.75	167.43	172.03	175.71	178.47	177.55	175.71	171.11	165.59		
45.0	178.47	180.31	182.15	183.07	183.07	182.15	178.47	173.87	168.35		
60.0	178.47	180.31	182.15	183.99	183.07	182.15	179.39	174.79	169.27		
75.0	178.47	179.39	182.15	183.07	183.07	182.15	179.39	175.71	171.11		
90.0	178.47	179.39	182.15	183.07	183.99	182.15	179.39	175.71	171.11		
105.0	178.47	180.31	182.15	183.99	183.99	182.15	180.31	176.63	171.11		
120.0	177.55	179.39	181.23	183.07	183.07	182.15	179.39	174.79	168.35		
135.0	176.63	178.47	180.31	182.15	182.15	180.31	176.63	170.19	165.59		
150.0	158.23	160.99	166.51	171.11	174.79	173.87	172.03	168.35	162.83		
165.0	98.44	102.12	110.40	119.60	130.64	139.84	147.20	152.71	153.63		
180.0	46.00	54.28	66.24	82.80	101.20	119.60	134.32	144.44	147.20		
195.0	80.96	71.76	70.84	75.44	85.56	98.44	112.24	123.28	128.80		
210.0	120.52	103.04	96.60	91.08	90.16	91.08	94.76	99.36	102.12		
225.0	134.32	121.44	109.48	103.96	100.28	98.44	97.52	98.44	100.28		
240.0	134.32	125.12	122.36	111.32	107.64	103.04	100.28	97.52	96.60		
255.0	132.48	125.12	116.84	111.32	106.72	102.12	96.60	92.92	89.24		
270.0	131.56	124.20	116.84	109.48	103.96	97.52	92.92	88.32	87.40		
285.0	134.32	126.96	119.60	114.08	109.48	104.88	99.36	94.76	92.92		
300.0	137.08	127.88	120.52	117.76	115.00	111.32	106.72	103.04	100.28		
315.0	134.32	123.28	113.16	109.48	107.64	105.80	104.88	105.80	107.64		
330.0	115.92	102.12	96.60	94.76	95.68	97.52	101.20	104.88	105.80		
345.0	78.20	71.76	72.68	78.20	89.24	103.96	116.84	126.96	132.48		
360.0	43.24	49.68	61.64	77.28	95.68	114.08	129.72	140.76	147.20		
C/ $\gamma(^{\circ})$	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0		
0.0	144.44	139.84	135.24	130.64	120.52	95.68	85.56	88.32	74.52		
15.0	151.79	145.36	140.76	134.32	127.88	113.16	86.48	87.40	80.96		
30.0	159.15	152.71	146.28	138.92	132.48	124.20	105.80	82.80	85.56		
45.0	162.83	156.39	149.96	142.60	135.24	126.96	117.76	96.60	77.28		
60.0	163.75	157.31	150.88	144.44	136.16	127.88	118.68	109.48	89.24		
75.0	164.67	157.31	150.88	144.44	137.08	128.80	119.60	110.40	100.28		
90.0	164.67	158.23	150.88	144.44	137.08	128.80	119.60	110.40	100.28		
105.0	164.67	157.31	150.88	144.44	137.08	128.80	120.52	111.32	100.28		
120.0	162.83	156.39	150.88	143.52	136.16	127.88	119.60	109.48	99.36		
135.0	160.07	154.55	148.12	140.76	133.40	125.12	115.92	106.72	97.52		
150.0	156.39	149.96	143.52	136.16	128.80	121.44	113.16	104.88	95.68		
165.0	148.12	142.60	138.00	131.56	126.04	118.68	110.40	102.12	93.84		
180.0	142.60	138.00	132.48	126.96	111.32	83.72	81.88	81.88	72.68		
195.0	126.96	121.44	114.08	110.40	96.60	91.08	78.20	73.60	77.28		
210.0	105.80	105.80	100.28	97.52	94.76	86.48	76.36	72.68	73.60		
225.0	102.12	104.88	107.64	103.96	99.36	92.92	80.96	70.84	69.00		
240.0	94.76	94.76	93.84	92.00	89.24	83.72	78.20	65.32	59.80		
255.0	88.32	89.24	90.16	91.08	90.16	90.16	82.80	59.80	49.68		
270.0	86.48	86.48	88.32	91.08	94.76	95.68	79.12	46.92	67.16		
285.0	92.00	92.00	92.92	93.84	94.76	87.40	64.40	60.72	80.04		
300.0	98.44	98.44	98.44	96.60	91.08	70.84	57.96	71.76	82.80		
315.0	110.40	111.32	110.40	106.72	92.92	68.08	67.16	77.28	83.72		
330.0	107.64	108.56	104.88	101.20	88.32	78.20	79.12	85.56	85.56		
345.0	129.72	126.04	118.68	114.08	106.72	95.68	92.92	93.84	89.24		
360.0	144.44	139.84	135.24	130.64	120.52	95.68	85.56	88.32	74.52		

Intensity data(cd)

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C/γ(°)	180.0
0.0	73.60
15.0	77.28
30.0	70.84
45.0	77.28
60.0	67.16
75.0	80.96
90.0	89.24
105.0	90.16
120.0	90.16
135.0	88.32
150.0	88.32
165.0	88.32
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	73.60