
乐达凯

Client:

LumCAT: SYDV2807LAJUDBK

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.010

LampCAT:

Current(A): 0.235

Lamp flux(lm): 1808.9

Power (W): 27.970

Number of Lamps: 1

PF: 0.992

Length(mm): 710

Width(mm): 110

Phm Type: C

Height(mm): 80

Photometric Results

Lumens(lm): 1808.91, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 64.67

Central intensity(cd): 149.955, Maximum intensity(cd): 191.354

Angle of maximum intensity: C=75.0 γ =50.0

Beam Angle(50%Imax): [C0/180]Total=316.2

[C90/270]Total=287.0

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=1.85

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%

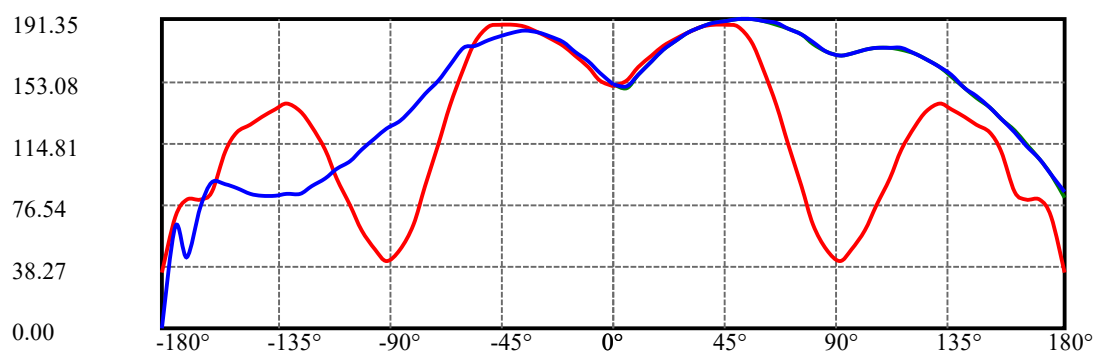
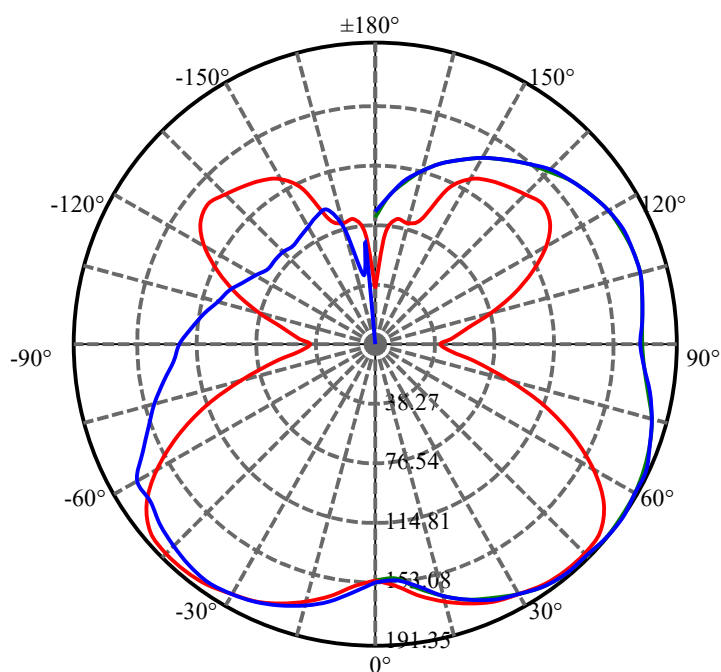
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	150.492	0.000	0	0.00%	0.00%
5.0	153.903	3.639	3.639	0.20%	0.20%
10.0	161.340	11.277	14.916	0.62%	0.82%
15.0	168.431	19.562	34.478	1.08%	1.91%
20.0	174.603	28.271	62.749	1.56%	3.47%
25.0	179.662	37.156	99.905	2.05%	5.52%
30.0	183.266	45.929	145.833	2.54%	8.06%
35.0	185.987	54.375	200.209	3.01%	11.07%
40.0	187.137	62.253	262.461	3.44%	14.51%
45.0	187.214	69.314	331.776	3.83%	18.34%
50.0	186.409	75.496	407.272	4.17%	22.51%
55.0	183.534	80.438	487.709	4.45%	26.96%
60.0	178.397	83.659	571.369	4.62%	31.59%
65.0	170.616	84.846	656.215	4.69%	36.28%
70.0	161.570	84.112	740.326	4.65%	40.93%
75.0	151.642	81.868	822.195	4.53%	45.45%
80.0	140.794	78.248	900.442	4.33%	49.78%
85.0	131.594	74.014	974.456	4.09%	53.87%
90.0	125.844	70.489	1044.945	3.90%	57.77%
95.0	123.008	68.138	1113.083	3.77%	61.53%
100.0	123.008	66.848	1179.931	3.70%	65.23%
105.0	124.273	66.165	1246.096	3.66%	68.89%
110.0	126.419	65.527	1311.623	3.62%	72.51%
115.0	128.259	64.486	1376.109	3.56%	76.07%
120.0	129.562	62.677	1438.786	3.46%	79.54%
125.0	129.677	59.923	1498.708	3.31%	82.85%
130.0	128.604	56.159	1554.867	3.10%	85.96%
135.0	125.576	51.361	1606.228	2.84%	88.80%
140.0	122.356	45.907	1652.135	2.54%	91.33%
145.0	118.369	40.163	1692.298	2.22%	93.55%
150.0	114.268	34.257	1726.555	1.89%	95.45%
155.0	107.828	28.106	1754.662	1.55%	97.00%
160.0	98.168	21.605	1776.267	1.19%	98.20%
165.0	88.662	15.397	1791.665	0.85%	99.05%
170.0	81.992	10.123	1801.788	0.56%	99.61%
175.0	78.159	5.729	1807.517	0.32%	99.92%
180.0	38.677	1.397	1808.913	0.08%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	145.83	8.06%	8.06%
0-40	262.46	14.51%	14.51%
0-60	571.37	31.59%	31.59%
0-90	1044.94	57.77%	57.77%
0-120	1438.79	79.54%	79.54%
0-180	1808.91	100.00%	100.00%
60-90	473.58	26.18%	26.18%
90-120	393.84	21.77%	21.77%
90-130	509.92	28.19%	28.19%
90-150	681.61	37.68%	37.68%
90-180	762.57	42.16%	42.16%
0-120.70	1447.13	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	14.92
10-20	47.83
20-30	83.08
30-40	116.63
40-50	144.81
50-60	164.10
60-70	168.96
70-80	160.12
80-90	144.50
90-100	134.99
100-110	131.69
110-120	127.16
120-130	116.08
130-140	97.27
140-150	74.42
150-160	49.71
160-170	25.52
170-180	5.73



C75(Max): —————

C0/C180: —————

C90/C270: —————

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

:C90/270Left:0.0 Right:0.0

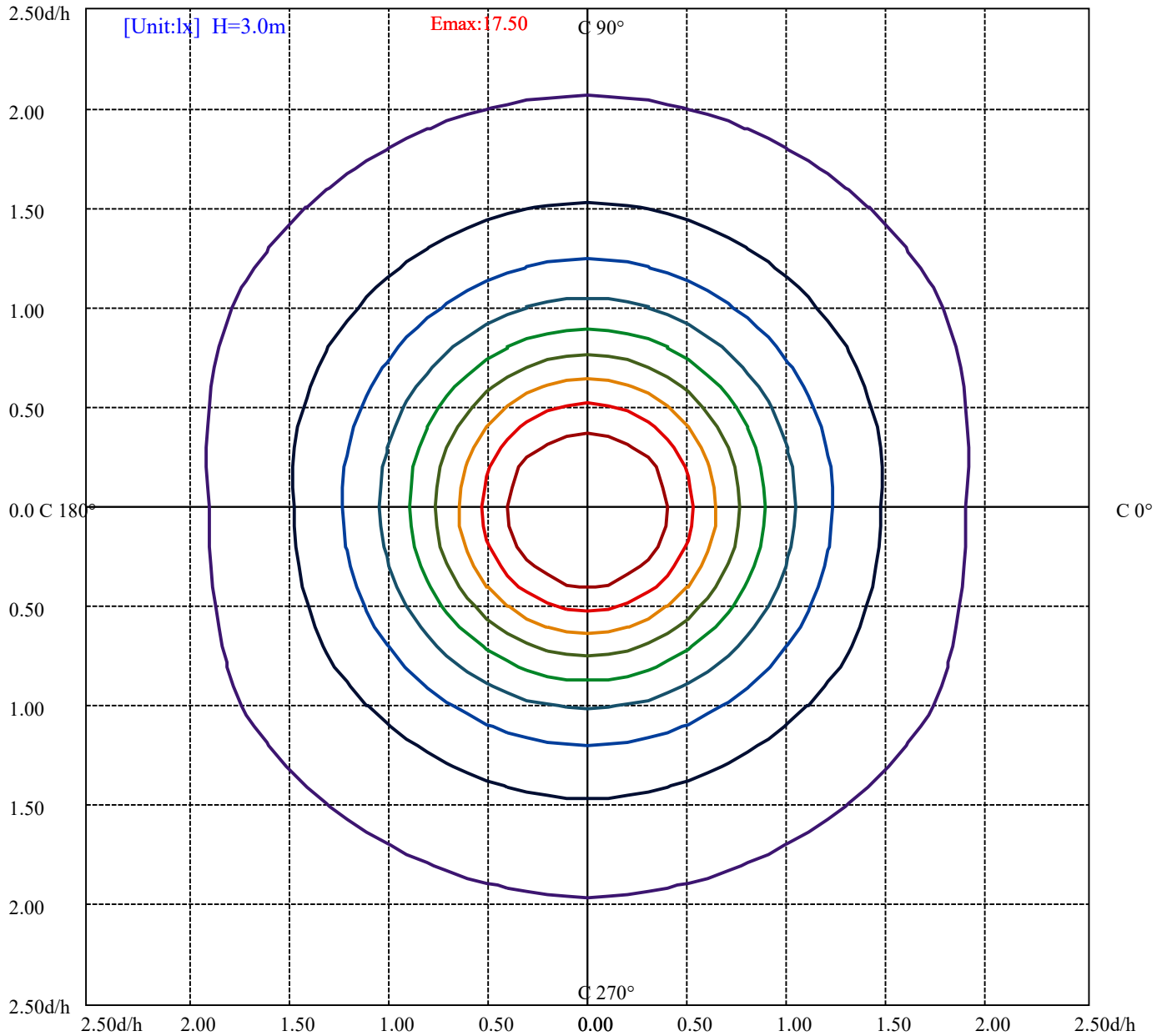
Beam Angle(50%Imax):C0/180Left:203.1 Right:113.1

:C90/270Left:167.5 Right:119.5

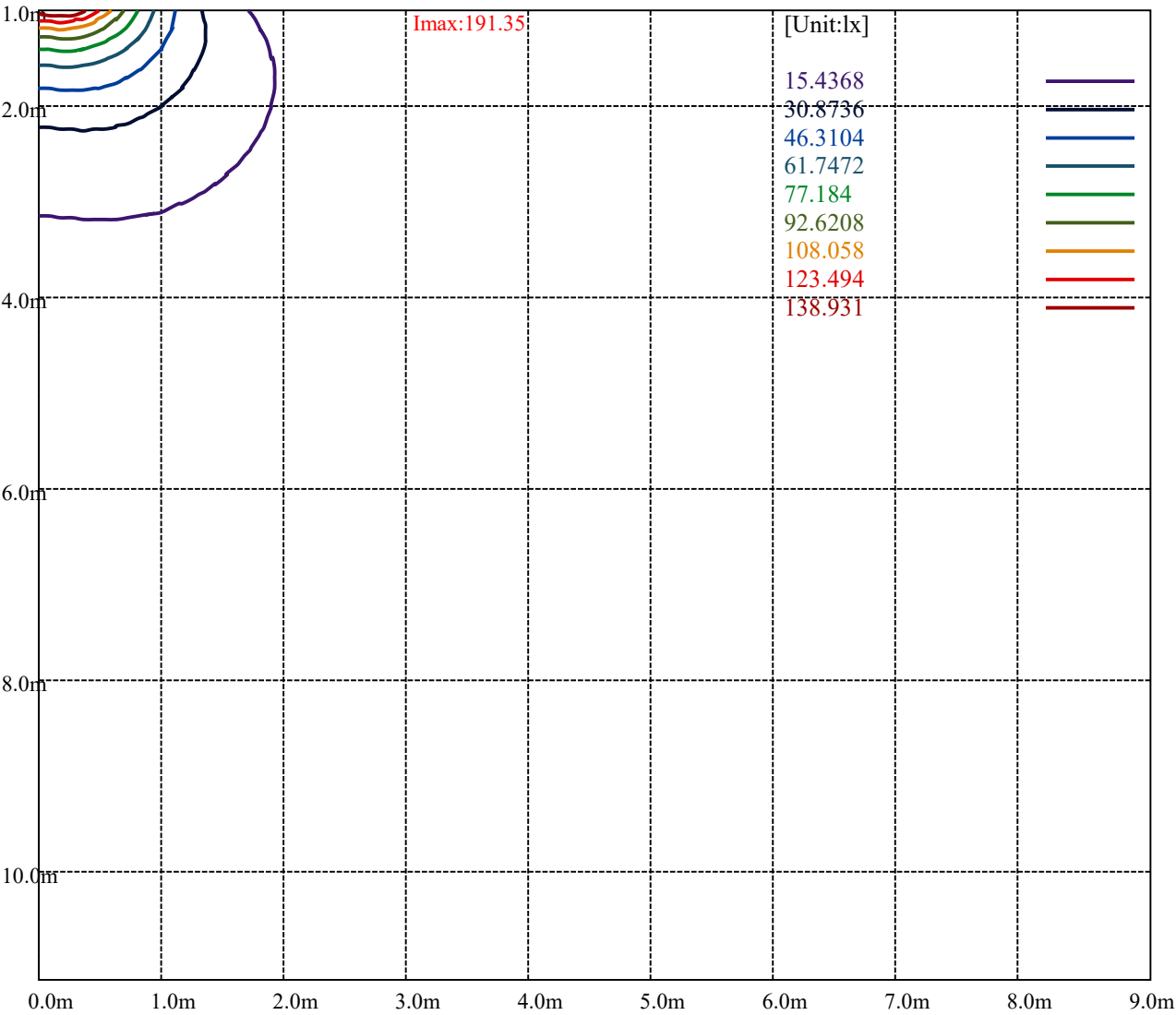


Max , Ave

Beam angle of C75 plane 341.61



(10%Emax) 1.749956
(20%Emax) 3.499922
(30%Emax) 5.249878
(40%Emax) 6.999845
(50%Emax) 8.7498
(60%Emax) 10.49977
(70%Emax) 12.24978
(80%Emax) 13.99967
(90%Emax) 15.74967



Luminance Table

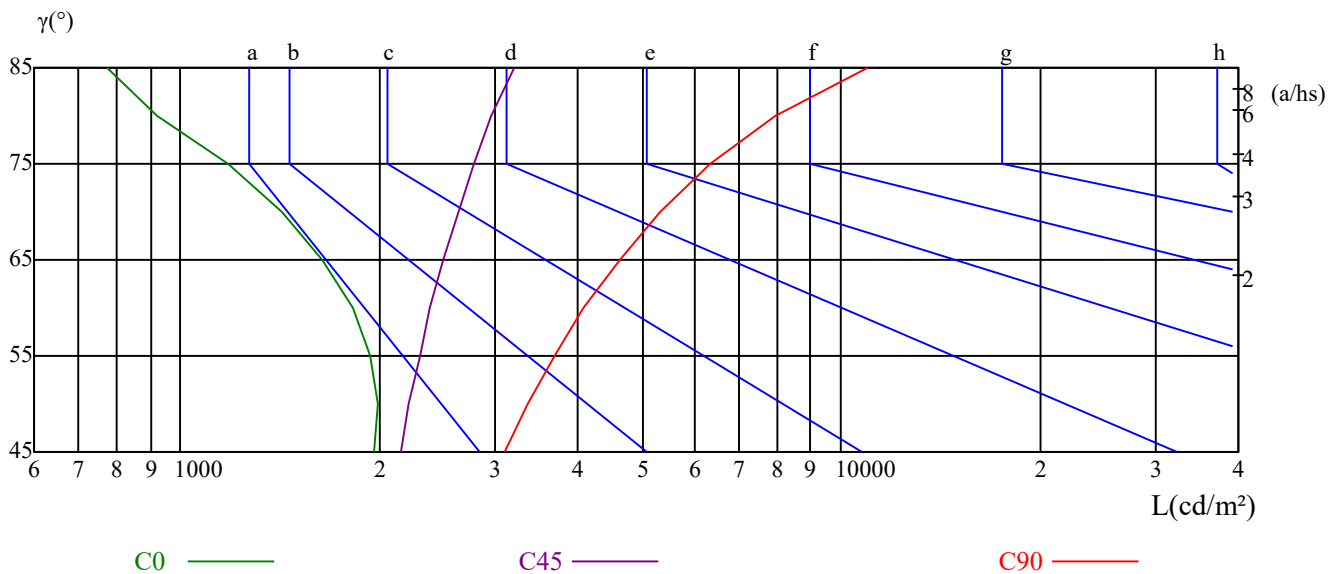
γ	45	50	55	60	65	70	75	80	85
C0	1967	1993	1934	1825	1639	1424	1176	920	776
C45	2163	2221	2300	2392	2501	2630	2773	2958	3193
C90	3099	3360	3680	4080	4624	5312	6344	7946	10988

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4195	5338	5428	4369	8101	8295	7231	22030	22368

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

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	149.96	150.88	159.15	166.51	172.95	178.47	183.07	185.83	187.67
15.0	150.88	150.88	159.15	166.51	172.95	179.39	183.07	186.75	189.51
30.0	150.88	150.88	157.31	165.59	172.95	178.47	183.99	187.67	189.51
45.0	149.96	149.04	156.39	164.67	172.03	177.55	183.07	186.75	189.51
60.0	150.88	148.12	155.47	163.75	171.11	177.55	183.07	186.75	189.51
75.0	149.96	148.12	156.39	163.75	172.03	177.55	182.15	186.75	188.59
90.0	150.88	149.96	156.39	164.67	172.03	178.47	183.07	186.75	189.51
105.0	150.88	149.96	157.31	165.59	172.95	178.47	183.07	186.75	189.51
120.0	150.88	150.88	157.31	165.59	172.95	179.39	183.99	187.67	189.51
135.0	150.88	151.79	159.15	167.43	173.87	179.39	183.99	186.75	188.59
150.0	150.88	152.71	160.07	168.35	179.39	180.31	183.99	186.75	188.59
165.0	149.04	152.71	160.99	167.43	173.87	179.39	183.07	185.83	187.67
180.0	149.96	156.39	164.67	171.11	177.55	181.23	183.99	186.75	187.67
195.0	150.88	157.31	165.59	172.03	177.55	182.15	184.91	187.67	187.67
210.0	150.88	158.23	165.59	172.03	177.55	181.23	184.91	186.75	186.75
225.0	149.96	157.31	164.67	171.11	176.63	181.23	183.07	184.91	185.83
240.0	150.88	158.23	165.59	171.11	175.71	180.31	182.15	183.99	183.07
255.0	149.96	158.23	164.67	171.11	175.71	180.31	182.15	183.99	183.07
270.0	150.88	158.23	165.59	171.11	176.63	180.31	183.07	183.99	183.07
285.0	150.88	158.23	165.59	171.11	176.63	180.31	183.07	184.91	184.91
300.0	150.88	157.31	164.67	171.11	172.03	180.31	182.15	184.91	184.91
315.0	150.88	157.31	164.67	171.11	175.71	180.31	183.07	184.91	184.91
330.0	150.88	156.39	163.75	170.19	174.79	180.31	183.07	184.91	185.83
345.0	149.04	154.55	161.91	169.27	174.79	179.39	183.07	184.91	185.83
360.0	149.96	150.88	159.15	166.51	172.95	178.47	183.07	185.83	187.67
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	187.67	187.67	178.47	164.67	141.68	118.68	92.00	67.16	49.68
15.0	189.51	190.43	187.67	176.63	161.91	145.36	130.64	115.00	103.04
30.0	191.35	190.43	190.43	189.51	186.75	179.39	173.87	166.51	159.15
45.0	191.35	191.35	191.35	190.43	189.51	186.75	182.15	177.55	171.11
60.0	190.43	190.43	190.43	190.43	188.59	185.83	182.15	177.55	172.03
75.0	190.43	191.35	190.43	190.43	188.59	185.83	182.15	176.63	172.03
90.0	190.43	191.35	191.35	190.43	189.51	185.83	182.15	176.63	171.11
105.0	190.43	191.35	191.35	190.43	187.67	184.91	181.23	175.71	171.11
120.0	190.43	189.51	189.51	188.59	186.75	183.99	179.39	174.79	170.19
135.0	189.51	189.51	189.51	188.59	185.83	183.07	178.47	172.95	167.43
150.0	189.51	188.59	188.59	186.75	182.15	175.71	168.35	160.07	152.71
165.0	187.67	187.67	184.91	173.87	158.23	141.68	125.12	108.56	96.60
180.0	187.67	185.83	174.79	157.31	135.24	109.48	84.64	60.72	48.76
195.0	187.67	186.75	181.23	168.35	153.63	138.92	121.44	103.96	89.24
210.0	186.75	185.83	183.99	180.31	173.87	165.59	156.39	141.68	126.96
225.0	184.91	183.07	180.31	174.79	170.19	161.91	154.55	143.52	135.24
240.0	182.15	180.31	175.71	171.11	165.59	157.31	149.04	139.84	134.32
255.0	181.23	178.47	174.79	169.27	162.83	155.47	146.28	143.52	129.72
270.0	181.23	178.47	174.79	173.87	162.83	153.63	145.36	136.16	128.80
285.0	182.15	180.31	175.71	171.11	163.75	156.39	147.20	138.00	132.48
300.0	183.07	180.31	176.63	172.03	166.51	159.15	150.88	141.68	135.24
315.0	184.91	183.07	180.31	176.63	171.11	164.67	155.47	145.36	135.24
330.0	185.83	184.91	183.99	180.31	172.95	165.59	154.55	138.92	123.28
345.0	186.75	186.75	178.47	165.59	149.04	132.48	115.92	96.60	82.80
360.0	187.67	187.67	178.47	164.67	141.68	118.68	92.00	67.16	49.68

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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	40.48	46.92	58.88	73.60	90.16	107.64	123.28	133.40	138.92		
15.0	97.52	102.12	110.40	119.60	129.72	137.08	144.44	148.12	148.12		
30.0	155.47	158.23	162.83	166.51	168.35	167.43	165.59	161.91	157.31		
45.0	169.27	170.19	172.03	173.87	172.95	172.03	168.35	163.75	159.15		
60.0	169.27	170.19	172.03	173.87	173.87	172.03	169.27	165.59	160.07		
75.0	169.27	170.19	172.03	173.87	172.95	172.03	170.19	166.51	161.91		
90.0	168.35	170.19	172.03	173.87	173.87	172.95	170.19	166.51	161.91		
105.0	169.27	170.19	172.03	173.87	173.87	172.03	170.19	166.51	161.91		
120.0	167.43	169.27	171.11	172.95	172.95	172.03	169.27	165.59	159.15		
135.0	166.51	168.35	171.11	172.03	172.03	170.19	166.51	160.99	157.31		
150.0	149.96	152.71	158.23	161.91	164.67	164.67	162.83	159.15	154.55		
165.0	92.92	96.60	103.96	113.16	123.28	132.48	139.84	144.44	145.36		
180.0	43.24	50.60	62.56	78.20	95.68	113.16	126.96	136.16	138.92		
195.0	76.36	68.08	67.16	70.84	80.96	92.92	106.72	116.84	121.44		
210.0	114.08	97.52	91.08	86.48	85.56	86.48	90.16	93.84	96.60		
225.0	126.96	115.00	103.96	98.44	94.76	92.92	92.00	92.92	94.76		
240.0	126.96	118.68	115.92	104.88	101.20	97.52	94.76	92.00	91.08		
255.0	126.04	117.76	110.40	104.88	101.20	96.60	91.08	87.40	84.64		
270.0	124.20	117.76	110.40	103.04	98.44	92.92	87.40	83.72	82.80		
285.0	126.96	119.60	113.16	107.64	103.04	98.44	93.84	90.16	88.32		
300.0	129.72	121.44	114.08	111.32	108.56	104.88	101.20	97.52	94.76		
315.0	126.96	115.92	106.72	103.96	102.12	99.36	99.36	100.28	102.12		
330.0	109.48	96.60	91.08	89.24	90.16	92.00	95.68	98.44	100.28		
345.0	73.60	68.08	69.00	74.52	83.72	98.44	110.40	120.52	125.12		
360.0	40.48	46.92	58.88	73.60	90.16	107.64	123.28	133.40	138.92		
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0		
0.0	136.16	132.48	127.88	123.28	114.08	90.16	80.96	82.80	69.92		
15.0	143.52	138.00	132.48	126.96	121.44	107.64	81.88	82.80	76.36		
30.0	150.88	144.44	138.00	131.56	125.12	117.76	99.36	78.20	80.96		
45.0	153.63	148.12	141.68	135.24	127.88	119.60	111.32	92.00	73.60		
60.0	154.55	149.04	142.60	136.16	128.80	121.44	112.24	103.96	84.64		
75.0	155.47	149.04	142.60	136.16	128.80	121.44	113.16	103.96	94.76		
90.0	156.39	149.04	143.52	136.16	129.72	121.44	113.16	104.88	94.76		
105.0	155.47	149.04	142.60	136.16	129.72	122.36	114.08	104.88	94.76		
120.0	153.63	148.12	142.60	135.24	128.80	121.44	113.16	103.96	93.84		
135.0	151.79	146.28	139.84	133.40	126.04	117.76	109.48	101.20	92.00		
150.0	148.12	141.68	135.24	128.80	122.36	115.00	106.72	98.44	90.16		
165.0	140.76	135.24	130.64	125.12	118.68	112.24	103.96	96.60	88.32		
180.0	134.32	129.72	125.12	119.60	104.88	79.12	77.28	77.28	69.00		
195.0	119.60	115.00	108.56	104.88	92.00	85.56	73.60	69.00	72.68		
210.0	99.36	100.28	94.76	92.00	89.24	80.96	71.76	69.00	69.92		
225.0	96.60	99.36	101.20	98.44	93.84	88.32	76.36	67.16	65.32		
240.0	89.24	89.24	88.32	87.40	84.64	79.12	74.52	61.64	56.12		
255.0	83.72	83.72	84.64	85.56	85.56	84.64	78.20	57.04	46.92		
270.0	81.88	81.88	82.80	86.48	89.24	90.16	75.44	44.16	63.48		
285.0	86.48	86.48	87.40	88.32	89.24	82.80	60.72	57.04	75.44		
300.0	92.92	92.92	92.92	91.08	86.48	67.16	55.20	68.08	78.20		
315.0	104.88	105.80	103.96	101.20	87.40	64.40	63.48	73.60	79.12		
330.0	102.12	102.12	99.36	95.68	83.72	74.52	74.52	80.96	80.96		
345.0	122.36	119.60	112.24	107.64	100.28	91.08	87.40	89.24	84.64		
360.0	136.16	132.48	127.88	123.28	114.08	90.16	80.96	82.80	69.92		

Intensity data(cd)

C/ $\gamma(^{\circ})$	180.0
0.0	69.92
15.0	73.60
30.0	67.16
45.0	72.68
60.0	63.48
75.0	76.36
90.0	84.64
105.0	84.64
120.0	85.56
135.0	83.72
150.0	83.72
165.0	82.80
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	69.92