
乐达凯

Client:

LumCAT: SYDV2807LAJUDBK

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.241

Lamp flux(lm): 1886.0

Power (W): 28.650

Number of Lamps: 1

PF: 0.992

Length(mm): 710

Width(mm): 110

Phm Type: C

Height(mm): 80

Photometric Results

Lumens(lm): 1886.04, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 65.83

Central intensity(cd): 156.395, Maximum intensity(cd): 199.633

Angle of maximum intensity: C=75.0 γ =50.0

Beam Angle(50%Imax): [C0/180]Total=316.6

[C90/270]Total=286.5

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(%): 42.24%

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%

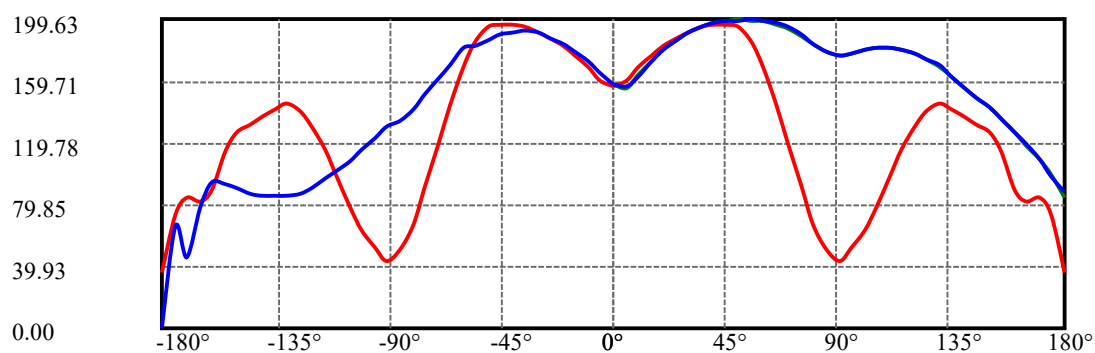
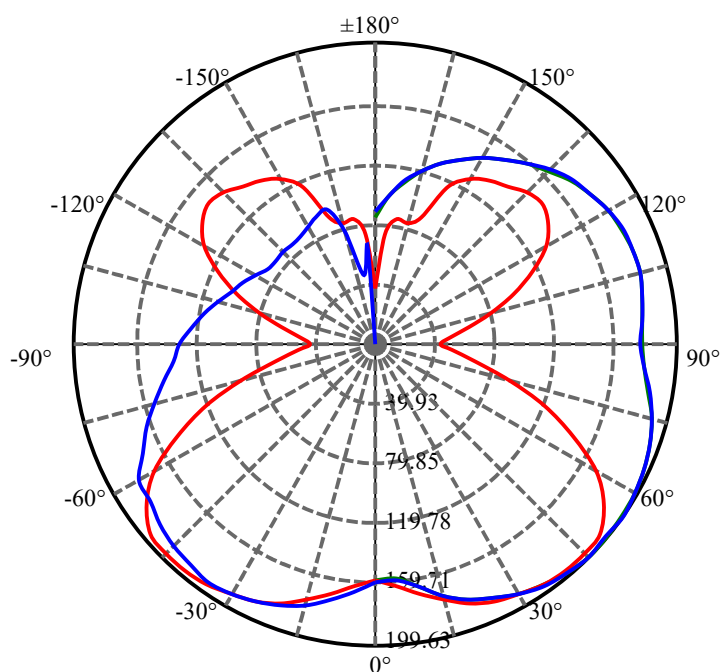
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	156.931	0.000	0	0.00%	0.00%
5.0	160.535	3.795	3.795	0.20%	0.20%
10.0	168.086	11.756	15.551	0.62%	0.82%
15.0	175.561	20.385	35.936	1.08%	1.91%
20.0	182.001	29.468	65.404	1.56%	3.47%
25.0	187.214	38.724	104.128	2.05%	5.52%
30.0	191.162	47.884	152.012	2.54%	8.06%
35.0	193.807	56.689	208.701	3.01%	11.07%
40.0	195.187	64.901	273.602	3.44%	14.51%
45.0	195.149	72.274	345.875	3.83%	18.34%
50.0	194.420	78.718	424.593	4.17%	22.51%
55.0	191.430	83.897	508.49	4.45%	26.96%
60.0	186.026	87.248	595.738	4.63%	31.59%
65.0	177.822	88.452	684.19	4.69%	36.28%
70.0	168.431	87.674	771.864	4.65%	40.93%
75.0	158.081	85.345	857.209	4.53%	45.45%
80.0	146.850	81.591	938.8	4.33%	49.78%
85.0	137.114	77.160	1015.96	4.09%	53.87%
90.0	131.326	73.501	1089.461	3.90%	57.76%
95.0	128.221	71.066	1160.527	3.77%	61.53%
100.0	128.144	69.660	1230.187	3.69%	65.23%
105.0	129.562	68.955	1299.142	3.66%	68.88%
110.0	131.862	68.332	1367.474	3.62%	72.51%
115.0	133.741	67.252	1434.727	3.57%	76.07%
120.0	135.121	65.361	1500.087	3.47%	79.54%
125.0	135.274	62.501	1562.588	3.31%	82.85%
130.0	134.047	58.559	1621.148	3.10%	85.96%
135.0	130.981	53.553	1674.7	2.84%	88.79%
140.0	127.531	47.865	1722.566	2.54%	91.33%
145.0	123.391	41.864	1764.43	2.22%	93.55%
150.0	119.098	35.708	1800.138	1.89%	95.45%
155.0	112.505	29.309	1829.448	1.55%	97.00%
160.0	102.423	22.542	1851.99	1.20%	98.19%
165.0	92.534	16.067	1868.057	0.85%	99.05%
170.0	85.442	10.557	1878.614	0.56%	99.61%
175.0	81.456	5.970	1884.585	0.32%	99.92%
180.0	40.364	1.456	1886.041	0.08%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	152.01	8.06%	8.06%
0-40	273.60	14.51%	14.51%
0-60	595.74	31.59%	31.59%
0-90	1089.46	57.76%	57.76%
0-120	1500.09	79.54%	79.54%
0-180	1886.04	100.00%	100.00%
60-90	493.72	26.18%	26.18%
90-120	410.63	21.77%	21.77%
90-130	531.69	28.19%	28.19%
90-150	710.68	37.68%	37.68%
90-180	795.12	42.16%	42.16%
0-120.70	1508.83	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	15.55
10-20	49.85
20-30	86.61
30-40	121.59
40-50	150.99
50-60	171.14
60-70	176.13
70-80	166.94
80-90	150.66
90-100	140.73
100-110	137.29
110-120	132.61
120-130	121.06
130-140	101.42
140-150	77.57
150-160	51.85
160-170	26.62
170-180	5.97

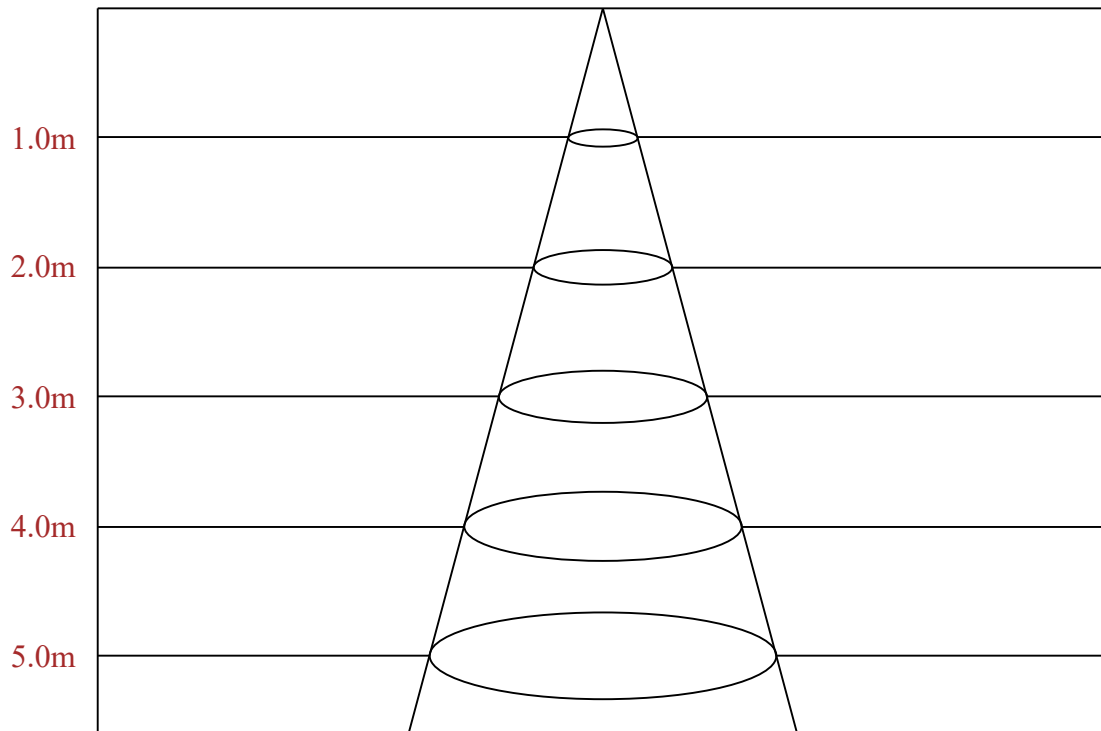
C75(Max): —————C0/C180: —————C90/C270: —————

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

:C90/270Left:0.0 Right:0.0

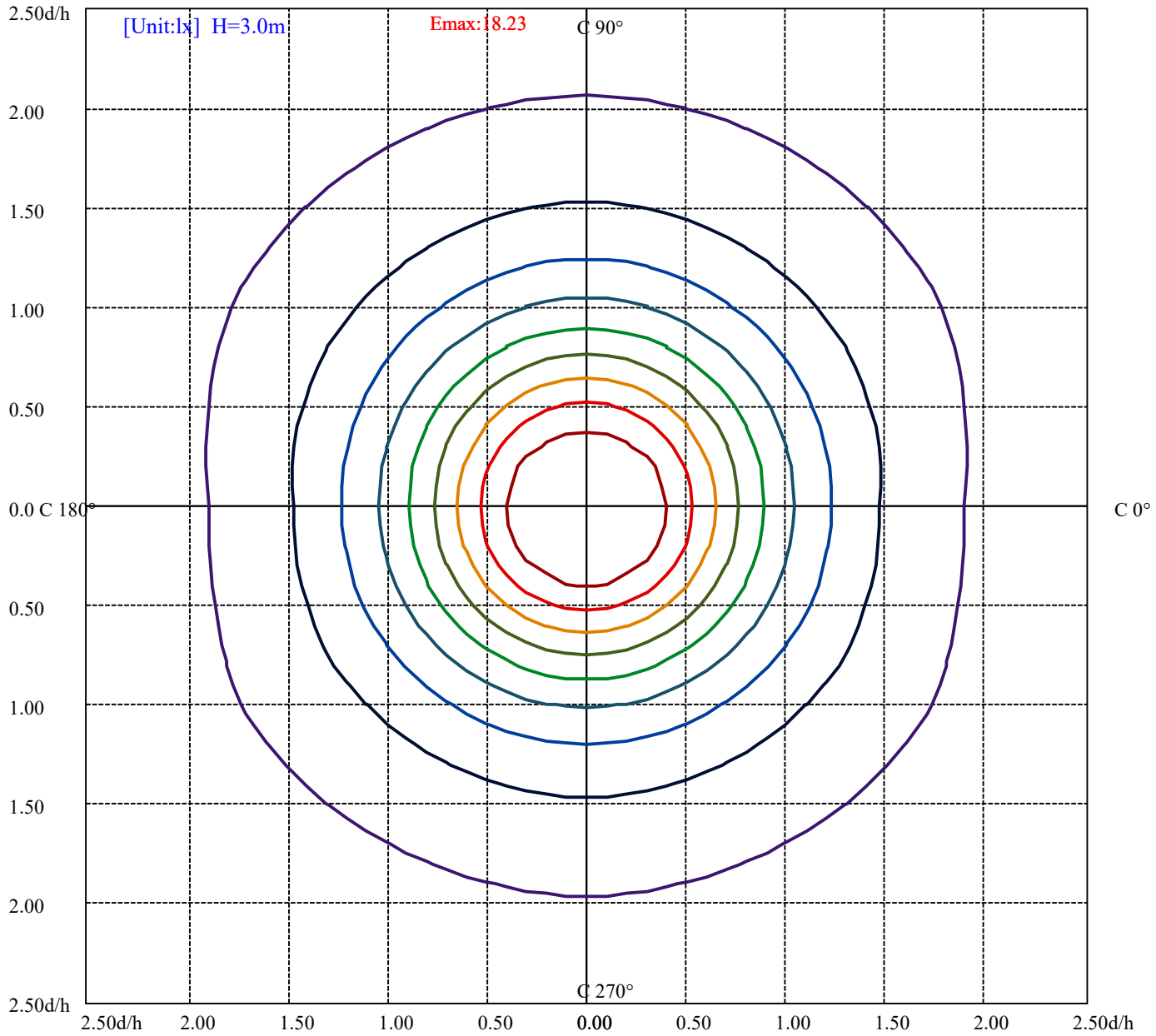
Beam Angle(50%Imax):C0/180Left:203.3 Right:113.3

:C90/270Left:167.1 Right:119.4

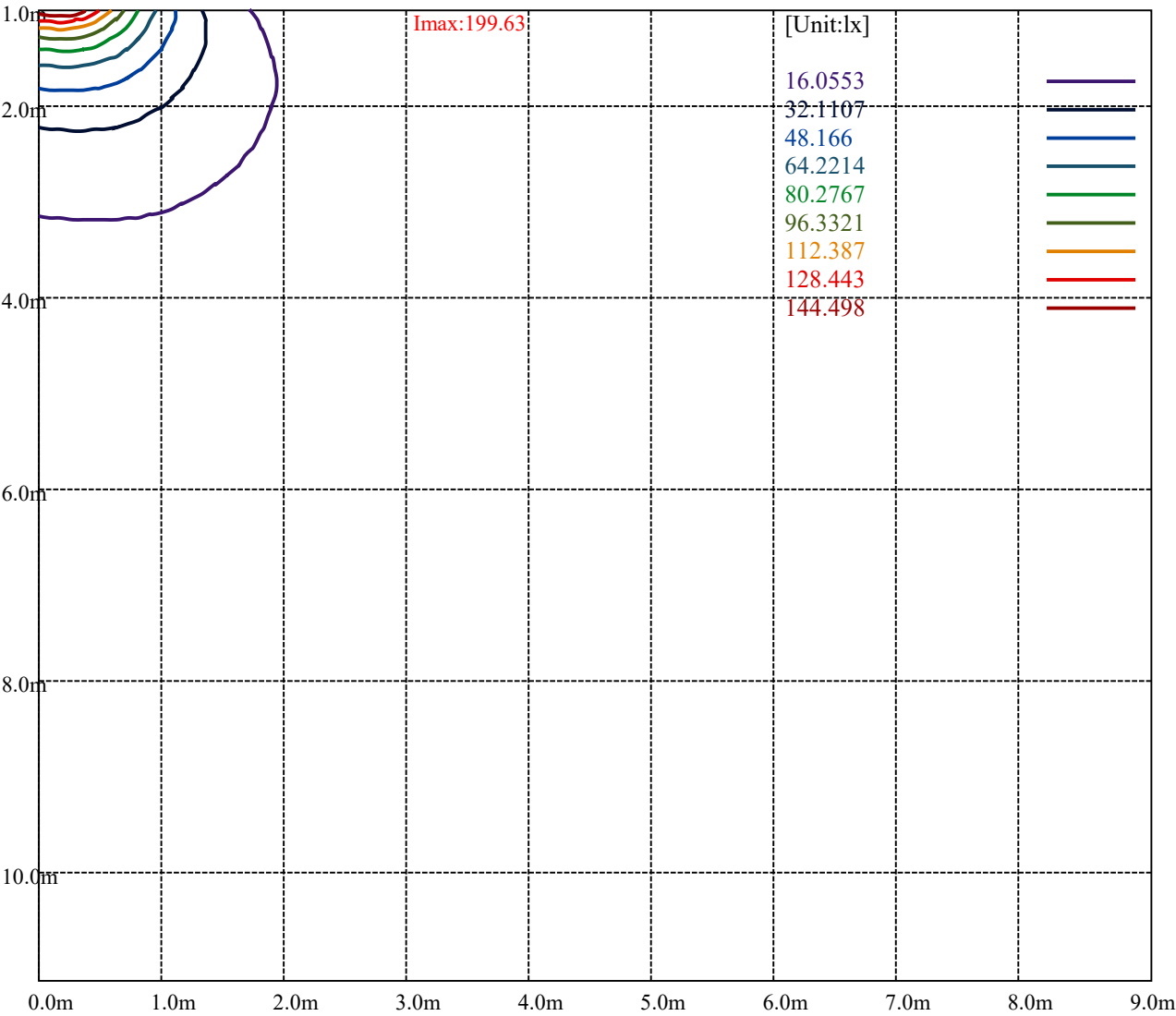


Max , Ave

Beam angle of C75 plane 341.67



(10%Emax) 1.822644	—
(20%Emax) 3.6453	—
(30%Emax) 5.467944	—
(40%Emax) 7.290589	—
(50%Emax) 9.113245	—
(60%Emax) 10.93589	—
(70%Emax) 12.75856	—
(80%Emax) 14.58122	—
(90%Emax) 16.40378	—



Luminance Table

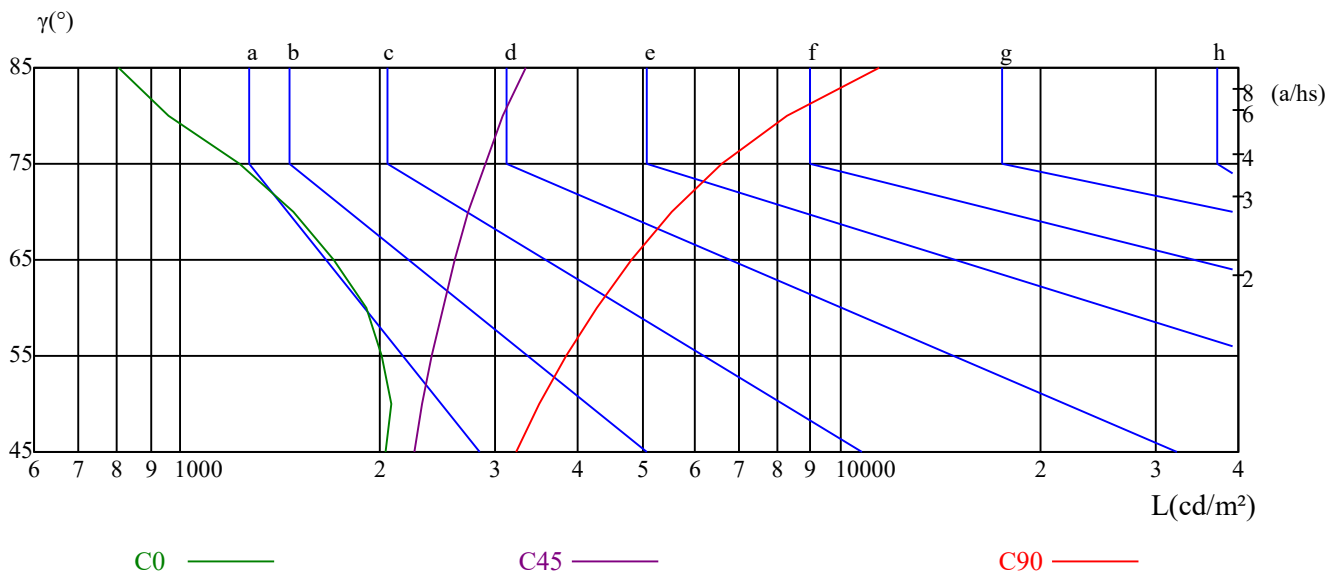
γ	45	50	55	60	65	70	75	80	85
C0	2049	2081	2020	1908	1710	1482	1225	960	805
C45	2257	2318	2400	2491	2605	2735	2886	3082	3332
C90	3234	3490	3839	4258	4804	5549	6600	8277	11460

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4376	5561	5658	4551	8442	8636	7501	22976	23314

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	156.39	157.31	165.59	172.95	180.31	185.83	190.43	194.11	195.03		
15.0	157.31	157.31	165.59	172.95	180.31	186.75	191.35	194.11	196.87		
30.0	157.31	157.31	163.75	172.03	180.31	186.75	191.35	195.03	197.79		
45.0	156.39	155.47	162.83	171.11	178.47	185.83	190.43	195.03	197.79		
60.0	157.31	154.55	161.91	171.11	178.47	184.91	190.43	194.11	196.87		
75.0	156.39	154.55	162.83	171.11	179.39	184.91	190.43	194.11	196.87		
90.0	157.31	156.39	162.83	172.03	179.39	185.83	190.43	195.03	196.87		
105.0	157.31	156.39	163.75	172.95	180.31	185.83	191.35	195.03	197.79		
120.0	157.31	157.31	163.75	172.95	180.31	186.75	192.27	195.03	197.79		
135.0	157.31	158.23	166.51	173.87	181.23	186.75	191.35	195.03	196.87		
150.0	157.31	159.15	167.43	175.71	186.75	187.67	192.27	195.03	196.87		
165.0	155.47	159.15	167.43	174.79	181.23	186.75	191.35	194.11	195.95		
180.0	156.39	163.75	171.11	178.47	184.91	189.51	192.27	194.11	195.95		
195.0	157.31	164.67	172.03	179.39	184.91	189.51	193.19	195.03	195.95		
210.0	157.31	164.67	172.95	179.39	184.91	189.51	192.27	194.11	195.03		
225.0	156.39	164.67	172.03	178.47	183.99	188.59	191.35	193.19	194.11		
240.0	157.31	165.59	172.03	178.47	183.07	187.67	190.43	191.35	191.35		
255.0	156.39	164.67	172.03	178.47	183.99	187.67	190.43	191.35	191.35		
270.0	157.31	164.67	172.03	178.47	183.99	187.67	190.43	192.27	190.43		
285.0	157.31	164.67	172.03	178.47	183.99	187.67	191.35	192.27	193.19		
300.0	157.31	164.67	172.03	178.47	179.39	187.67	190.43	192.27	192.27		
315.0	157.31	163.75	172.03	178.47	183.07	187.67	190.43	193.19	193.19		
330.0	157.31	162.83	170.19	177.55	183.07	187.67	191.35	193.19	194.11		
345.0	155.47	160.99	169.27	175.71	182.15	187.67	190.43	193.19	194.11		
360.0	156.39	157.31	165.59	172.95	180.31	185.83	190.43	194.11	195.03		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	195.95	195.95	186.75	172.03	148.12	123.28	95.68	69.92	51.52		
15.0	197.79	197.79	195.03	183.99	168.35	151.79	136.16	120.52	106.72		
30.0	198.71	198.71	198.71	197.79	194.11	187.67	181.23	173.87	165.59		
45.0	199.63	199.63	199.63	198.71	196.87	194.11	189.51	184.91	178.47		
60.0	198.71	198.71	198.71	197.79	196.87	194.11	190.43	184.91	179.39		
75.0	198.71	199.63	198.71	198.71	196.87	193.19	189.51	183.99	179.39		
90.0	198.71	198.71	199.63	198.71	196.87	194.11	189.51	183.99	178.47		
105.0	198.71	199.63	198.71	197.79	195.95	193.19	188.59	183.07	178.47		
120.0	197.79	197.79	197.79	196.87	195.03	192.27	187.67	182.15	177.55		
135.0	197.79	197.79	197.79	195.95	194.11	190.43	185.83	180.31	174.79		
150.0	196.87	196.87	195.95	195.03	189.51	183.07	175.71	166.51	159.15		
165.0	195.95	195.95	192.27	181.23	164.67	148.12	130.64	113.16	100.28		
180.0	195.03	194.11	182.15	164.67	140.76	114.08	88.32	63.48	50.60		
195.0	195.95	195.03	188.59	175.71	160.07	144.44	126.04	108.56	92.92		
210.0	194.11	194.11	192.27	187.67	181.23	172.95	162.83	148.12	132.48		
225.0	193.19	191.35	187.67	183.07	177.55	169.27	160.99	149.96	140.76		
240.0	189.51	187.67	183.99	178.47	172.03	163.75	155.47	145.36	139.84		
255.0	188.59	185.83	182.15	176.63	169.27	161.91	152.71	149.96	135.24		
270.0	189.51	185.83	182.15	181.23	170.19	160.99	151.79	141.68	134.32		
285.0	190.43	187.67	183.99	178.47	171.11	162.83	153.63	144.44	138.00		
300.0	190.43	188.59	184.91	179.39	173.87	165.59	157.31	148.12	140.76		
315.0	193.19	191.35	188.59	183.99	178.47	171.11	161.91	151.79	140.76		
330.0	194.11	193.19	191.35	187.67	180.31	172.03	161.91	145.36	128.80		
345.0	194.11	194.11	186.75	172.95	155.47	138.00	120.52	100.28	86.48		
360.0	195.95	195.95	186.75	172.03	148.12	123.28	95.68	69.92	51.52		

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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	42.32	49.68	60.72	76.36	94.76	112.24	127.88	138.92	145.36		
15.0	102.12	105.80	115.00	125.12	135.24	142.60	149.96	154.55	154.55		
30.0	161.91	164.67	169.27	173.87	175.71	174.79	172.95	169.27	163.75		
45.0	176.63	177.55	179.39	181.23	180.31	179.39	175.71	171.11	166.51		
60.0	176.63	177.55	179.39	181.23	181.23	179.39	176.63	172.95	166.51		
75.0	176.63	176.63	179.39	181.23	180.31	179.39	177.55	173.87	168.35		
90.0	175.71	177.55	179.39	181.23	181.23	180.31	177.55	173.87	169.27		
105.0	176.63	177.55	179.39	181.23	181.23	179.39	177.55	173.87	169.27		
120.0	174.79	176.63	178.47	180.31	180.31	179.39	176.63	172.03	166.51		
135.0	173.87	175.71	177.55	179.39	179.39	177.55	173.87	168.35	163.75		
150.0	156.39	159.15	164.67	169.27	172.03	171.11	169.27	165.59	160.99		
165.0	97.52	100.28	108.56	117.76	128.80	138.00	145.36	150.88	150.88		
180.0	45.08	53.36	65.32	80.96	100.28	117.76	132.48	141.68	144.44		
195.0	80.04	70.84	69.92	74.52	84.64	97.52	111.32	122.36	126.96		
210.0	118.68	102.12	94.76	90.16	89.24	90.16	93.84	97.52	100.28		
225.0	132.48	119.60	108.56	102.12	99.36	96.60	96.60	96.60	98.44		
240.0	132.48	123.28	120.52	109.48	105.80	102.12	98.44	95.68	94.76		
255.0	130.64	123.28	115.00	109.48	104.88	100.28	95.68	91.08	88.32		
270.0	129.72	122.36	115.00	107.64	102.12	96.60	91.08	87.40	85.56		
285.0	132.48	125.12	117.76	112.24	107.64	103.04	98.44	93.84	92.00		
300.0	135.24	126.04	118.68	115.92	113.16	109.48	105.80	102.12	99.36		
315.0	132.48	121.44	111.32	108.56	105.80	103.96	103.04	104.88	106.72		
330.0	114.08	100.28	95.68	92.92	93.84	96.60	100.28	103.04	103.96		
345.0	77.28	70.84	71.76	77.28	87.40	102.12	115.00	125.12	130.64		
360.0	42.32	49.68	60.72	76.36	94.76	112.24	127.88	138.92	145.36		
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0		
0.0	142.60	138.00	133.40	128.80	119.60	94.76	83.72	86.48	73.60		
15.0	149.04	143.52	138.00	132.48	126.96	112.24	85.56	85.56	80.04		
30.0	157.31	150.88	143.52	137.08	130.64	123.28	103.96	81.88	84.64		
45.0	160.07	154.55	148.12	140.76	133.40	125.12	116.84	95.68	76.36		
60.0	160.99	155.47	149.04	141.68	134.32	126.96	117.76	107.64	87.40		
75.0	161.91	155.47	149.04	141.68	134.32	126.96	117.76	108.56	98.44		
90.0	162.83	155.47	149.04	142.60	135.24	126.96	118.68	109.48	98.44		
105.0	161.91	155.47	149.04	142.60	135.24	126.96	118.68	109.48	99.36		
120.0	160.99	154.55	148.12	141.68	134.32	126.04	117.76	108.56	97.52		
135.0	158.23	151.79	145.36	138.92	131.56	123.28	114.08	104.88	95.68		
150.0	154.55	148.12	140.76	134.32	126.96	119.60	111.32	103.04	93.84		
165.0	146.28	140.76	136.16	129.72	124.20	116.84	108.56	101.20	92.00		
180.0	139.84	135.24	130.64	125.12	109.48	82.80	80.96	80.96	71.76		
195.0	125.12	120.52	113.16	108.56	95.68	89.24	77.28	71.76	75.44		
210.0	103.96	103.96	99.36	95.68	92.92	84.64	75.44	71.76	72.68		
225.0	100.28	103.04	105.80	102.12	98.44	92.00	79.12	69.92	68.08		
240.0	93.84	92.92	92.00	91.08	88.32	81.88	77.28	64.40	58.88		
255.0	87.40	87.40	88.32	89.24	89.24	88.32	80.96	58.88	48.76		
270.0	85.56	85.56	86.48	90.16	92.92	94.76	78.20	46.00	65.32		
285.0	90.16	90.16	91.08	92.00	92.92	86.48	63.48	59.80	79.12		
300.0	97.52	96.60	96.60	94.76	90.16	69.92	57.96	70.84	81.88		
315.0	108.56	110.40	108.56	105.80	91.08	67.16	66.24	76.36	82.80		
330.0	106.72	106.72	103.04	99.36	87.40	77.28	78.20	84.64	84.64		
345.0	127.88	124.20	116.84	112.24	104.88	94.76	91.08	92.92	88.32		
360.0	142.60	138.00	133.40	128.80	119.60	94.76	83.72	86.48	73.60		

Intensity data(cd)

C/ $\gamma(^{\circ})$	180.0
0.0	72.68
15.0	76.36
30.0	69.92
45.0	76.36
60.0	66.24
75.0	80.04
90.0	88.32
105.0	88.32
120.0	89.24
135.0	87.40
150.0	87.40
165.0	86.48
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	72.68