
AFX

Client:

LumCAT: ARNC17LAJD4LB

Luminaire: LED LAMP

Report No:

Ballast type:

Test No:

Voltage(V): 120.020

LampCAT:

Current(A): 0.238

Lamp flux(lm): 2605.1

Power (W): 27.980

Number of Lamps: 1

PF: 0.980

Length(mm): 400

Width(mm): 360

Phm Type: C

Height(mm): 360

Photometric Results

Lumens(lm): 2605.13, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 93.11

Central intensity(cd): 250.314, Maximum intensity(cd): 250.314

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=N.A.

[C90/270]Total=N.A.

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

[C90/270]Total=N.A.

Maximum s/h(1/2): C0_180=1.43 C90_270=1.53

Maximum s/h(1/4): C0_180=1.59 C90_270=1.73

Up flux rate of lamp(%): 48.07%

Down flux rate of lamp(%): 51.93%

Up flux rate of LUM(%): 48.07%

Down flux rate of LUM(%): 51.93%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 27.324%

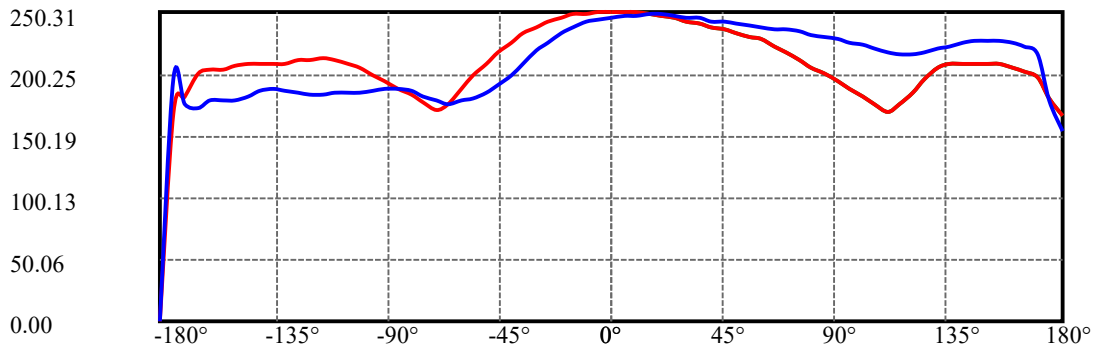
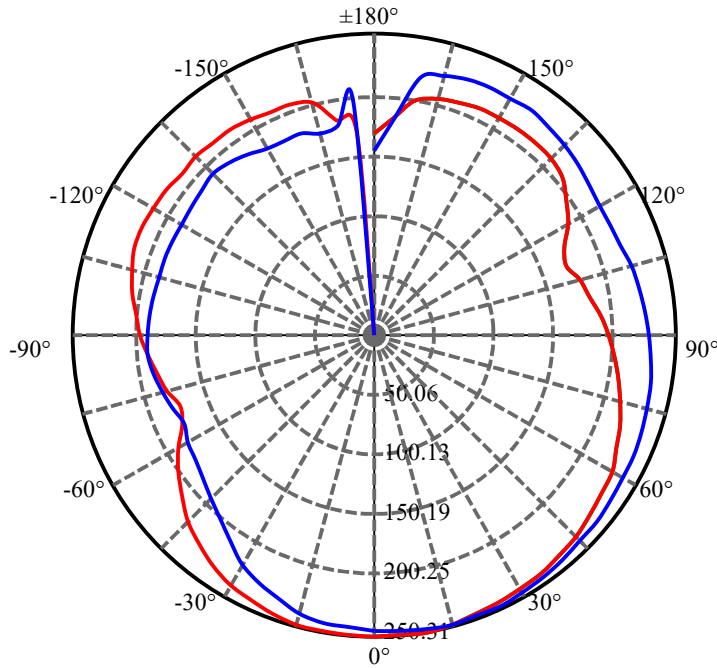
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	246.127	0.000	0	0.00%	0.00%
5.0	246.277	5.887	5.887	0.23%	0.23%
10.0	245.903	17.607	23.493	0.68%	0.90%
15.0	244.706	29.103	52.596	1.12%	2.02%
20.0	242.763	40.174	92.77	1.54%	3.56%
25.0	239.809	50.613	143.383	1.94%	5.50%
30.0	235.996	60.214	203.597	2.31%	7.82%
35.0	231.697	68.871	272.468	2.64%	10.46%
40.0	226.987	76.528	348.996	2.94%	13.40%
45.0	221.940	83.123	432.118	3.19%	16.59%
50.0	217.118	88.718	520.837	3.41%	19.99%
55.0	212.707	93.458	614.295	3.59%	23.58%
60.0	209.268	97.538	711.833	3.74%	27.32%
65.0	205.791	100.902	812.735	3.87%	31.20%
70.0	203.885	103.733	916.467	3.98%	35.18%
75.0	203.249	106.418	1022.886	4.08%	39.26%
80.0	202.913	108.678	1131.563	4.17%	43.44%
85.0	202.950	110.283	1241.846	4.23%	47.67%
90.0	202.502	111.016	1352.862	4.26%	51.93%
95.0	201.006	110.484	1463.345	4.24%	56.17%
100.0	199.436	108.810	1572.155	4.18%	60.35%
105.0	197.754	106.277	1678.432	4.08%	64.43%
110.0	196.819	103.135	1781.567	3.96%	68.39%
115.0	197.006	99.719	1881.286	3.83%	72.21%
120.0	197.866	95.994	1977.28	3.68%	75.90%
125.0	199.174	91.775	2069.055	3.52%	79.42%
130.0	200.782	86.964	2156.019	3.34%	82.76%
135.0	202.315	81.452	2237.471	3.13%	85.89%
140.0	203.361	75.114	2312.585	2.88%	88.77%
145.0	203.361	67.859	2380.443	2.60%	91.38%
150.0	203.212	59.871	2440.314	2.30%	93.67%
155.0	202.987	51.405	2491.719	1.97%	95.65%
160.0	201.417	42.415	2534.133	1.63%	97.27%
165.0	195.511	32.712	2566.846	1.26%	98.53%
170.0	182.203	22.406	2589.252	0.86%	99.39%
175.0	173.979	12.742	2601.993	0.49%	99.88%
180.0	88.447	3.137	2605.131	0.12%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	203.60	7.82%	7.82%
0-40	349.00	13.40%	13.40%
0-60	711.83	27.32%	27.32%
0-90	1352.86	51.93%	51.93%
0-120	1977.28	75.90%	75.90%
0-180	2605.13	100.00%	100.00%
60-90	641.03	24.61%	24.61%
90-120	624.42	23.97%	23.97%
90-130	803.16	30.83%	30.83%
90-150	1087.45	41.74%	41.74%
90-180	1249.13	47.95%	47.95%
0-125.87	2084.10	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	23.49
10-20	69.28
20-30	110.83
30-40	145.40
40-50	171.84
50-60	191.00
60-70	204.63
70-80	215.10
80-90	221.30
90-100	219.29
100-110	209.41
110-120	195.71
120-130	178.74
130-140	156.57
140-150	127.73
150-160	93.82
160-170	55.12
170-180	12.74



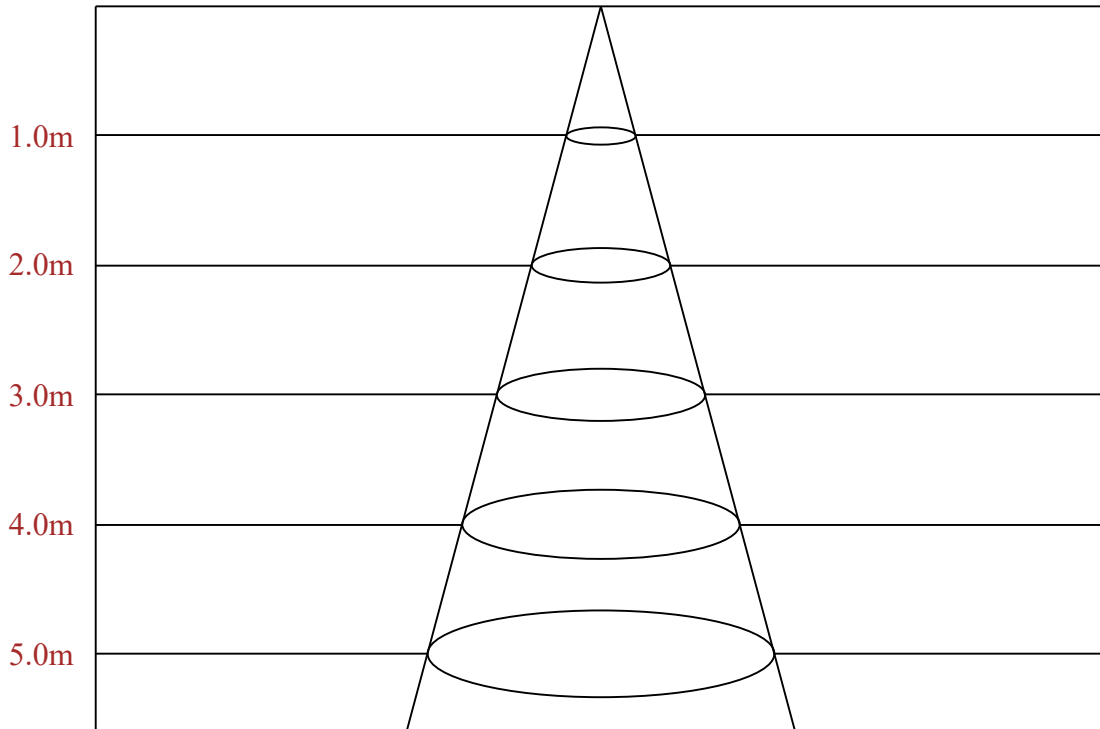
C0(Max): —————

C0/C180: —————

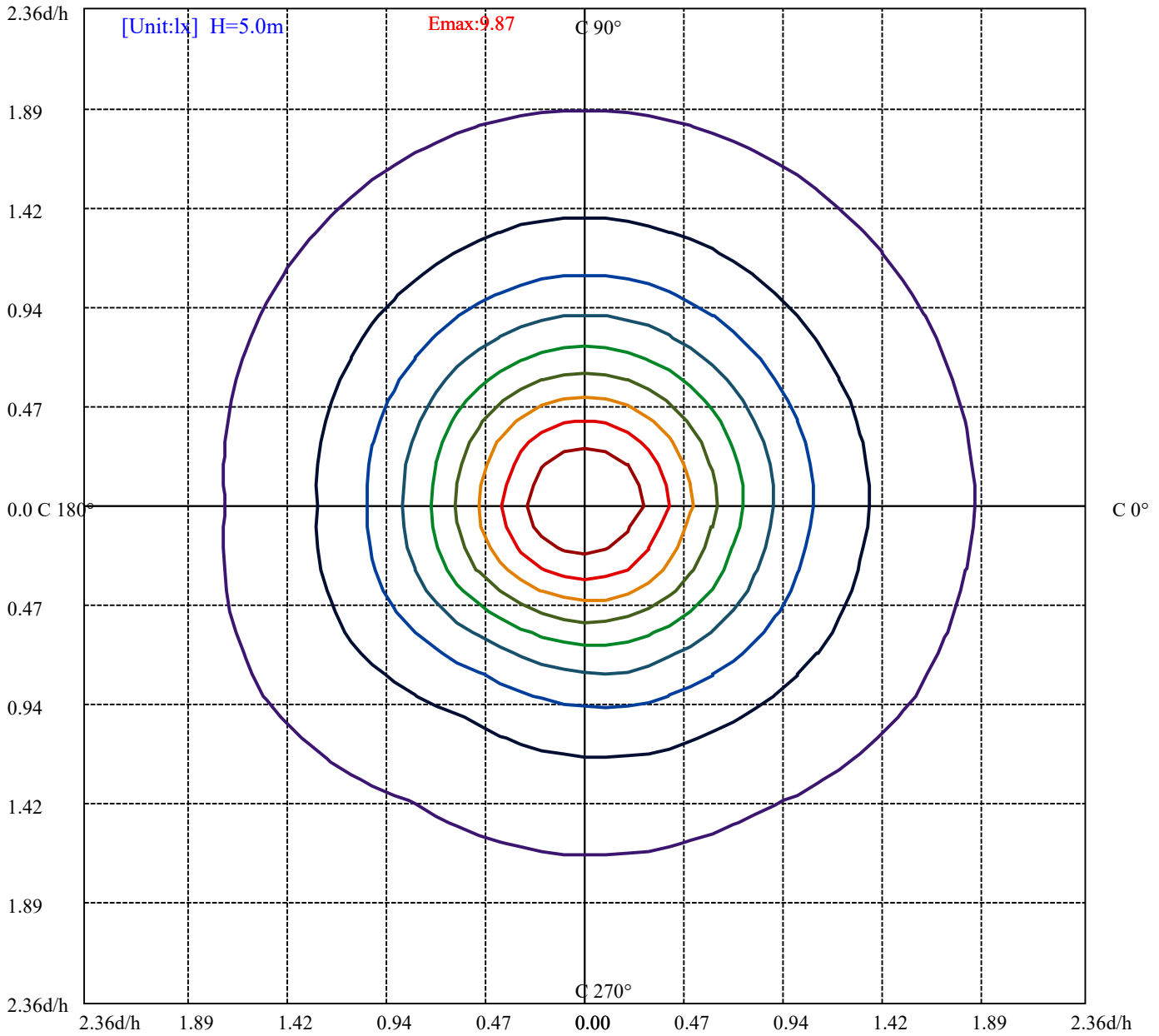
C90/C270: —————

Field angle(10%Imax):C0/180Left:0.0 Right:0.0
:C90/270Left:0.0 Right:0.0

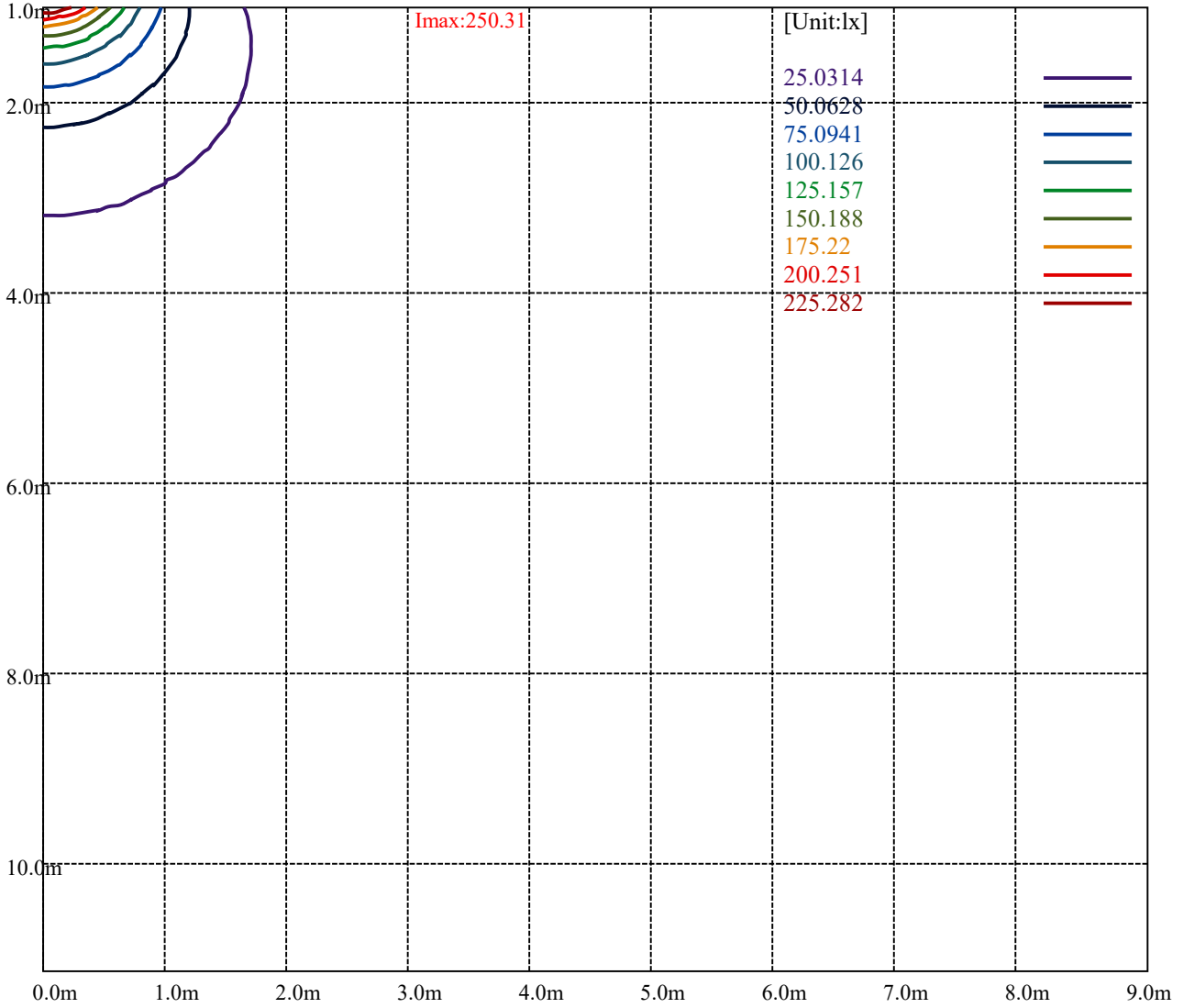
Beam Angle(50%Imax):C0/180Left:0.0 Right:0.0
:C90/270Left:0.0 Right:0.0



Max , Ave Beam angle of C0 plane 180.00



- (10%Emax) 0.9869
- (20%Emax) 1.9738
- (30%Emax) 2.9607
- (40%Emax) 3.9476
- (50%Emax) 4.93448
- (60%Emax) 5.9214
- (70%Emax) 6.90828
- (80%Emax) 7.8952
- (90%Emax) 8.88208



Luminance Table

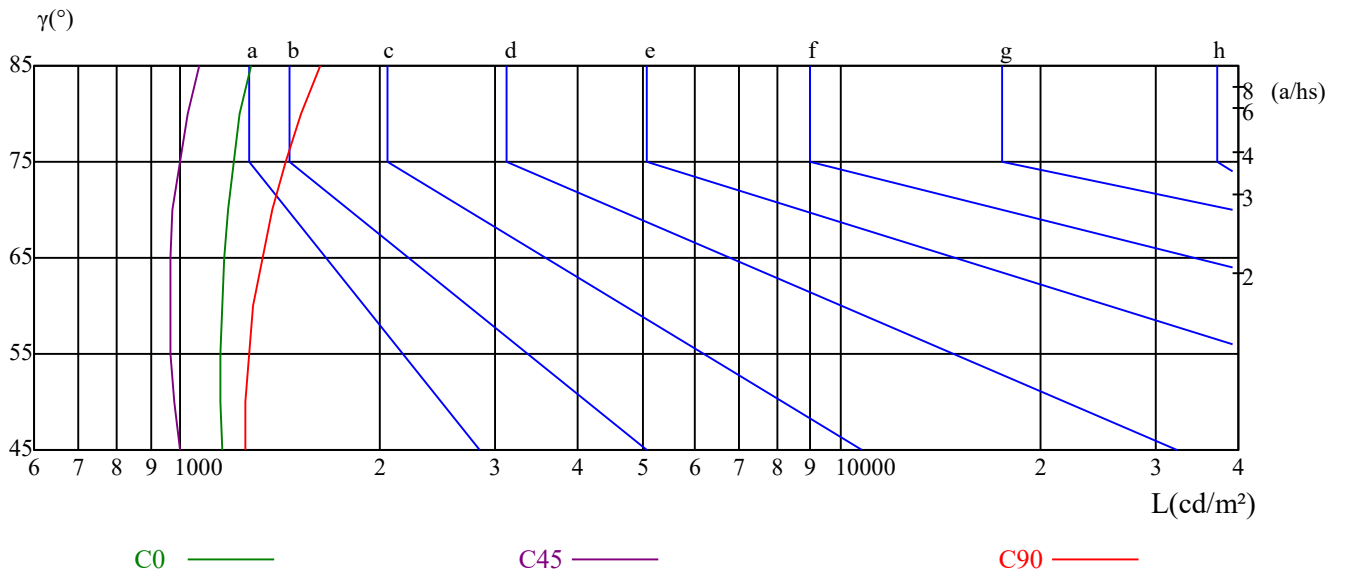
γ	45	50	55	60	65	70	75	80	85
C0	1159	1150	1150	1158	1163	1176	1201	1232	1282
C45	1000	980	964	963	965	975	997	1024	1071
C90	1252	1253	1269	1290	1328	1380	1441	1522	1628

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3273	3383	3424	5224	5585	5549	15477	16692	16442

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



RHOCC	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	0.84	0.84	0.84	0.71	0.71	0.71	0.58	0.58	0.58	0.52
1	0.88	0.83	0.78	0.81	0.76	0.72	0.68	0.64	0.61	0.56	0.53	0.51	0.45	0.43	0.41	0.35
2	0.75	0.67	0.61	0.69	0.62	0.56	0.57	0.52	0.48	0.47	0.43	0.39	0.37	0.34	0.32	0.27
3	0.65	0.56	0.49	0.59	0.52	0.45	0.50	0.43	0.38	0.40	0.36	0.32	0.32	0.28	0.25	0.21
4	0.57	0.47	0.40	0.52	0.44	0.37	0.43	0.37	0.32	0.35	0.30	0.26	0.28	0.24	0.21	0.17
5	0.50	0.41	0.34	0.46	0.38	0.32	0.38	0.32	0.27	0.31	0.26	0.22	0.25	0.21	0.18	0.14
6	0.45	0.36	0.29	0.41	0.33	0.27	0.34	0.28	0.23	0.28	0.23	0.19	0.22	0.18	0.15	0.12
7	0.40	0.31	0.25	0.37	0.29	0.23	0.31	0.25	0.20	0.25	0.20	0.17	0.20	0.16	0.13	0.11
8	0.36	0.28	0.22	0.33	0.26	0.20	0.28	0.22	0.18	0.23	0.18	0.15	0.19	0.15	0.12	0.09
9	0.33	0.25	0.19	0.30	0.23	0.18	0.26	0.20	0.15	0.21	0.16	0.13	0.17	0.13	0.10	0.08
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	0.16	0.12	0.09	0.07

AFX ARNC17LAJD4LB

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	250.31	250.31	250.31	249.42	246.73	244.93	243.14	241.34	238.65
15.0	249.42	249.42	249.42	248.52	247.62	245.83	243.14	241.34	239.55
30.0	248.52	248.52	249.42	248.52	247.62	245.83	244.03	242.24	240.44
45.0	246.73	247.62	248.52	249.42	247.62	246.73	245.83	244.03	241.34
60.0	245.83	247.62	247.62	248.52	248.52	247.62	245.83	244.03	241.34
75.0	244.93	246.73	248.52	248.52	248.52	247.62	245.83	244.03	243.14
90.0	244.93	246.73	247.62	248.52	248.52	247.62	245.83	244.93	243.14
105.0	244.03	246.73	248.52	248.52	248.52	247.62	245.83	244.03	242.24
120.0	244.03	245.83	247.62	247.62	248.52	247.62	245.83	243.14	240.44
135.0	244.93	245.83	246.73	247.62	247.62	246.73	244.93	242.24	238.65
150.0	244.93	244.93	245.83	246.73	244.03	244.03	241.34	239.55	234.16
165.0	244.93	244.93	244.93	244.93	244.03	241.34	239.55	235.06	228.78
180.0	250.31	250.31	249.42	248.52	245.83	243.14	238.65	233.27	226.09
195.0	249.42	248.52	247.62	245.83	244.03	241.34	237.75	232.37	226.99
210.0	248.52	247.62	246.73	244.03	242.24	238.65	234.16	227.88	221.60
225.0	246.73	246.73	244.93	242.24	237.75	231.47	224.30	216.22	208.15
240.0	245.83	244.93	243.14	240.44	235.06	226.99	217.12	206.35	194.69
255.0	244.93	244.03	242.24	238.65	233.27	226.09	216.22	205.45	194.69
270.0	244.93	244.03	242.24	238.65	233.27	226.09	218.91	209.04	199.17
285.0	244.03	243.14	242.24	238.65	235.06	229.68	222.50	214.43	212.63
300.0	244.03	244.03	241.34	238.65	237.75	230.58	224.30	218.91	212.63
315.0	244.93	244.03	242.24	239.55	237.75	235.06	231.47	226.99	221.60
330.0	244.93	244.03	242.24	240.44	237.75	235.96	233.27	231.47	227.88
345.0	244.93	244.03	242.24	240.44	238.65	236.86	234.16	232.37	229.68
360.0	250.31	250.31	250.31	249.42	246.73	244.93	243.14	241.34	238.65

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	235.96	233.27	230.58	227.88	222.50	217.12	211.74	205.45	200.07
15.0	237.75	235.06	231.47	226.99	222.50	217.12	211.74	206.35	200.97
30.0	237.75	235.06	230.58	227.88	224.30	221.60	217.12	214.43	210.84
45.0	238.65	235.96	232.37	230.58	227.88	225.19	223.40	220.71	219.81
60.0	239.55	237.75	235.96	233.27	231.47	229.68	228.78	226.99	226.99
75.0	241.34	239.55	237.75	236.86	235.06	234.16	232.37	232.37	231.47
90.0	242.24	240.44	239.55	237.75	236.86	235.96	234.16	232.37	230.58
105.0	241.34	239.55	238.65	236.86	235.06	231.47	228.78	224.30	219.81
120.0	237.75	234.16	231.47	229.68	226.99	223.40	218.91	213.53	208.15
135.0	234.16	229.68	225.19	220.71	217.12	213.53	209.04	204.56	200.07
150.0	228.78	222.50	215.32	209.94	202.76	198.28	194.69	192.89	192.00
165.0	224.30	216.22	207.25	198.28	189.31	182.13	178.54	177.64	180.33
180.0	218.02	209.04	198.28	187.51	175.85	171.36	177.64	183.03	188.41
195.0	221.60	214.43	207.25	200.07	194.69	192.89	192.89	195.59	198.28
210.0	217.12	212.63	209.04	206.35	204.56	204.56	205.45	207.25	209.04
225.0	199.17	193.79	191.10	191.10	192.89	195.59	199.17	203.66	206.35
240.0	182.13	171.36	168.67	172.26	177.64	182.13	187.51	192.00	195.59
255.0	185.72	178.54	174.95	174.95	175.85	178.54	183.03	183.92	192.89
270.0	191.10	184.82	180.33	178.54	174.95	178.54	182.13	186.61	188.41
285.0	199.17	192.00	184.82	179.44	174.95	173.16	174.05	177.64	180.33
300.0	205.45	197.38	188.41	179.44	171.36	170.46	175.85	181.23	185.72
315.0	216.22	209.94	203.66	199.17	195.59	194.69	195.59	196.48	199.17
330.0	224.30	221.60	218.91	216.22	212.63	209.94	208.15	207.25	206.35
345.0	226.99	226.09	223.40	220.71	216.22	211.74	207.25	203.66	199.17
360.0	235.96	233.27	230.58	227.88	222.50	217.12	211.74	205.45	200.07

Intensity data(cd)

C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	194.69	188.41	182.13	175.85	169.57	174.95	185.72	195.59	204.56
15.0	196.48	192.00	187.51	183.92	182.13	183.92	187.51	192.00	196.48
30.0	207.25	203.66	199.17	192.89	187.51	184.82	184.82	187.51	187.51
45.0	217.12	210.84	202.76	196.48	190.20	185.72	182.13	181.23	182.13
60.0	223.40	217.12	210.84	203.66	197.38	191.10	183.92	177.64	180.33
75.0	230.58	226.99	223.40	217.12	212.63	209.04	206.35	205.45	207.25
90.0	228.78	226.09	223.40	220.71	218.02	216.22	216.22	218.02	220.71
105.0	215.32	209.94	203.66	200.07	196.48	196.48	200.07	204.56	209.04
120.0	201.87	195.59	188.41	181.23	174.05	174.05	179.44	185.72	190.20
135.0	195.59	192.00	189.31	185.72	183.92	183.03	182.13	182.13	183.03
150.0	191.10	191.10	190.20	191.10	192.00	191.10	189.31	186.61	184.82
165.0	183.92	186.61	190.20	193.79	198.28	200.07	200.07	197.38	194.69
180.0	194.69	199.17	204.56	208.15	211.74	212.63	211.74	210.84	209.04
195.0	201.87	205.45	209.04	211.74	214.43	216.22	217.12	216.22	214.43
210.0	209.94	210.84	211.74	212.63	212.63	212.63	213.53	215.32	215.32
225.0	208.15	208.15	207.25	206.35	206.35	206.35	205.45	208.15	209.94
240.0	200.07	200.07	200.07	197.38	197.38	197.38	198.28	198.28	200.07
255.0	194.69	192.89	191.10	188.41	187.51	187.51	187.51	187.51	188.41
270.0	188.41	186.61	185.72	184.82	184.82	183.92	183.92	185.72	186.61
285.0	183.92	185.72	187.51	189.31	191.10	192.89	193.79	193.79	194.69
300.0	189.31	192.89	196.48	200.07	203.66	206.35	207.25	208.15	208.15
315.0	201.87	204.56	206.35	209.04	211.74	214.43	215.32	216.22	218.02
330.0	205.45	205.45	206.35	207.25	209.04	211.74	214.43	217.12	218.91
345.0	195.59	192.00	189.31	188.41	191.10	195.59	202.76	209.04	214.43
360.0	194.69	188.41	182.13	175.85	169.57	174.95	185.72	195.59	204.56
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	208.15	208.15	208.15	208.15	208.15	205.45	202.76	197.38	180.33
15.0	196.48	195.59	193.79	192.89	191.10	189.31	186.61	180.33	173.16
30.0	186.61	184.82	183.03	183.03	184.82	181.23	175.85	169.57	161.49
45.0	183.03	184.82	186.61	189.31	192.00	190.20	187.51	174.95	157.01
60.0	187.51	194.69	200.07	204.56	207.25	206.35	204.56	190.20	160.60
75.0	210.84	215.32	217.12	218.91	219.81	219.81	217.12	204.56	167.77
90.0	222.50	225.19	226.99	226.99	226.99	226.09	222.50	216.22	179.44
105.0	212.63	216.22	218.91	220.71	221.60	219.81	216.22	212.63	187.51
120.0	195.59	199.17	201.87	204.56	205.45	204.56	202.76	199.17	189.31
135.0	183.92	185.72	187.51	189.31	188.41	186.61	184.82	180.33	178.54
150.0	183.03	183.03	184.82	186.61	183.03	177.64	175.85	168.67	163.29
165.0	192.00	191.10	191.10	191.10	188.41	184.82	183.92	172.26	158.80
180.0	209.04	209.04	209.04	206.35	203.66	203.66	200.07	181.23	167.77
195.0	214.43	215.32	215.32	215.32	213.53	212.63	206.35	176.74	158.80
210.0	216.22	215.32	217.12	216.22	215.32	213.53	199.17	169.57	172.26
225.0	211.74	213.53	211.74	209.04	209.04	209.94	187.51	164.18	187.51
240.0	201.87	200.97	199.17	197.38	198.28	196.48	177.64	163.29	199.17
255.0	191.10	190.20	186.61	183.92	185.72	182.13	170.46	166.88	202.76
270.0	188.41	186.61	182.13	178.54	178.54	178.54	173.16	175.85	195.59
285.0	195.59	195.59	193.79	191.10	192.00	192.00	188.41	189.31	181.23
300.0	209.04	209.94	208.15	206.35	207.25	207.25	203.66	190.20	164.18
315.0	218.91	220.71	220.71	218.91	217.12	217.12	213.53	185.72	152.52
330.0	220.71	223.40	222.50	222.50	220.71	218.02	212.63	177.64	158.80
345.0	216.22	216.22	214.43	215.32	213.53	210.84	199.17	165.98	177.64
360.0	208.15	208.15	208.15	208.15	208.15	205.45	202.76	197.38	180.33

Intensity data(cd)

C/ γ (°)	180.0
0.0	166.88
15.0	183.03
30.0	192.00
45.0	194.69
60.0	185.72
75.0	165.98
90.0	153.42
105.0	151.62
120.0	165.98
135.0	179.44
150.0	190.20
165.0	193.79
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	166.88