
AFX

Client:

LumCAT: ARNC17LAJD4BKLB

Luminaire: LED LAMP

Report No:

Ballast type:

Test No:

Voltage(V): 119.990

LampCAT:

Current(A): 0.238

Lamp flux(lm): 2540.0

Power (W): 27.990

Number of Lamps: 1

PF: 0.979

Length(mm): 400

Width(mm): 360

Phm Type: C

Height(mm): 360

Photometric Results

Lumens(lm): 2540.02, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 90.75

Central intensity(cd): 242.239, Maximum intensity(cd): 243.136

Angle of maximum intensity: C=0.0 γ =5.0

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=1.38 C90_270=1.49

Maximum s/h(1/4): C0_180=1.57 C90_270=1.66

Up flux rate of lamp(%): 48.48%

Down flux rate of lamp(%): 51.52%

Up flux rate of LUM(%): 48.48%

Down flux rate of LUM(%): 51.52%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 27.163%

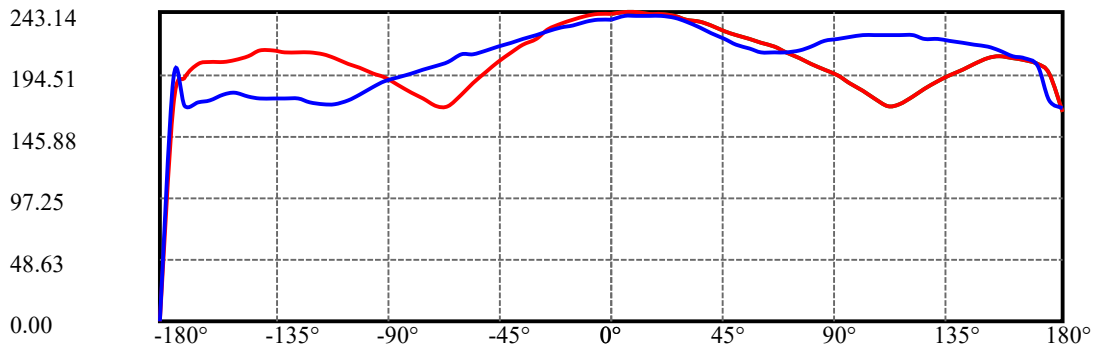
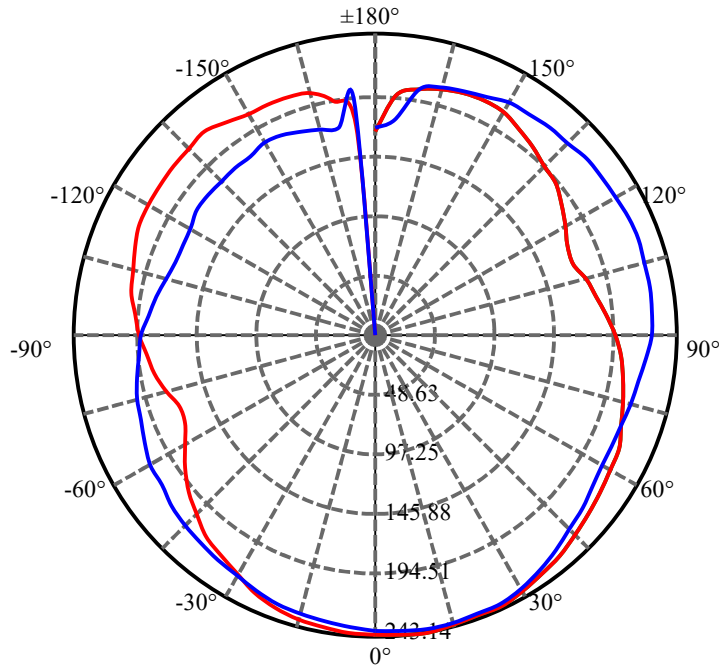
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	239.024	0.000	0	0.00%	0.00%
5.0	239.024	5.715	5.715	0.22%	0.22%
10.0	238.464	17.081	22.796	0.67%	0.90%
15.0	237.230	28.218	51.014	1.11%	2.01%
20.0	235.323	38.945	89.959	1.53%	3.54%
25.0	232.819	49.099	139.058	1.93%	5.47%
30.0	229.193	58.468	197.526	2.30%	7.78%
35.0	225.043	66.889	264.416	2.63%	10.41%
40.0	220.408	74.320	338.736	2.93%	13.34%
45.0	215.212	80.658	419.394	3.18%	16.51%
50.0	210.240	85.969	505.363	3.38%	19.90%
55.0	205.567	90.410	595.773	3.56%	23.46%
60.0	201.829	94.168	689.942	3.71%	27.16%
65.0	198.651	97.357	787.299	3.83%	31.00%
70.0	196.371	100.022	887.321	3.94%	34.93%
75.0	195.548	102.441	989.762	4.03%	38.97%
80.0	196.109	104.797	1094.559	4.13%	43.09%
85.0	196.371	106.646	1201.205	4.20%	47.29%
90.0	196.296	107.515	1308.72	4.23%	51.52%
95.0	195.735	107.341	1416.062	4.23%	55.75%
100.0	194.726	106.098	1522.159	4.18%	59.93%
105.0	193.604	103.906	1626.066	4.09%	64.02%
110.0	193.455	101.171	1727.237	3.98%	68.00%
115.0	194.539	98.243	1825.479	3.87%	71.87%
120.0	195.586	94.840	1920.319	3.73%	75.60%
125.0	197.193	90.790	2011.109	3.57%	79.18%
130.0	198.502	86.037	2097.146	3.39%	82.56%
135.0	199.660	80.454	2177.601	3.17%	85.73%
140.0	200.819	74.152	2251.753	2.92%	88.65%
145.0	201.193	67.073	2318.825	2.64%	91.29%
150.0	200.745	59.188	2378.014	2.33%	93.62%
155.0	198.352	50.506	2428.52	1.99%	95.61%
160.0	196.146	41.376	2469.895	1.63%	97.24%
165.0	193.118	32.081	2501.976	1.26%	98.50%
170.0	180.894	22.186	2524.162	0.87%	99.38%
175.0	173.866	12.691	2536.853	0.50%	99.88%
180.0	90.877	3.165	2540.018	0.12%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	197.53	7.78%	7.78%
0-40	338.74	13.34%	13.34%
0-60	689.94	27.16%	27.16%
0-90	1308.72	51.52%	51.52%
0-120	1920.32	75.60%	75.60%
0-180	2540.02	100.00%	100.00%
60-90	618.78	24.36%	24.36%
90-120	611.60	24.08%	24.08%
90-130	788.43	31.04%	31.04%
90-150	1069.29	42.10%	42.10%
90-180	1228.13	48.35%	48.35%
0-126.21	2032.01	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	22.80
10-20	67.16
20-30	107.57
30-40	141.21
40-50	166.63
50-60	184.58
60-70	197.38
70-80	207.24
80-90	214.16
90-100	213.44
100-110	205.08
110-120	193.08
120-130	176.83
130-140	154.61
140-150	126.26
150-160	91.88
160-170	54.27
170-180	12.69



C0(Max): —————

C0/C180: —————

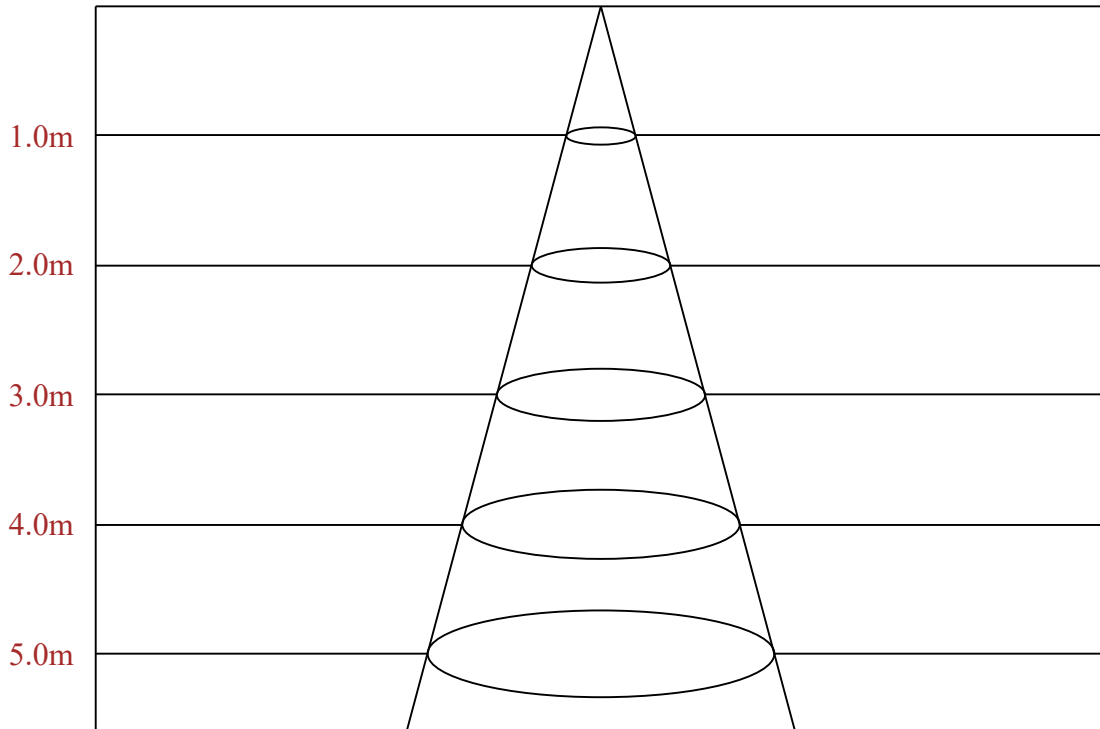
C90/C270: —————

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

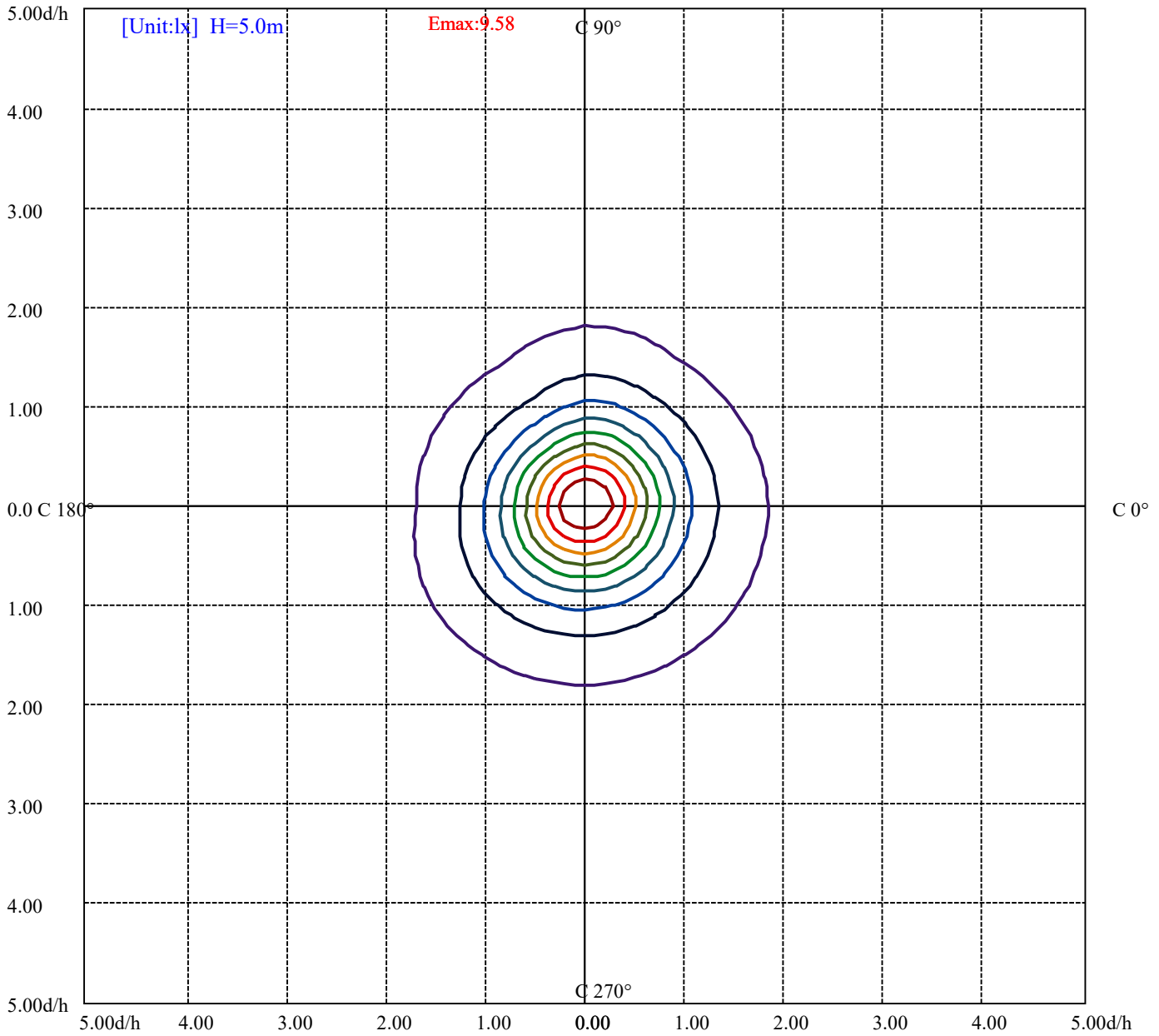
:C90/270Left:0.0 Right:0.0

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

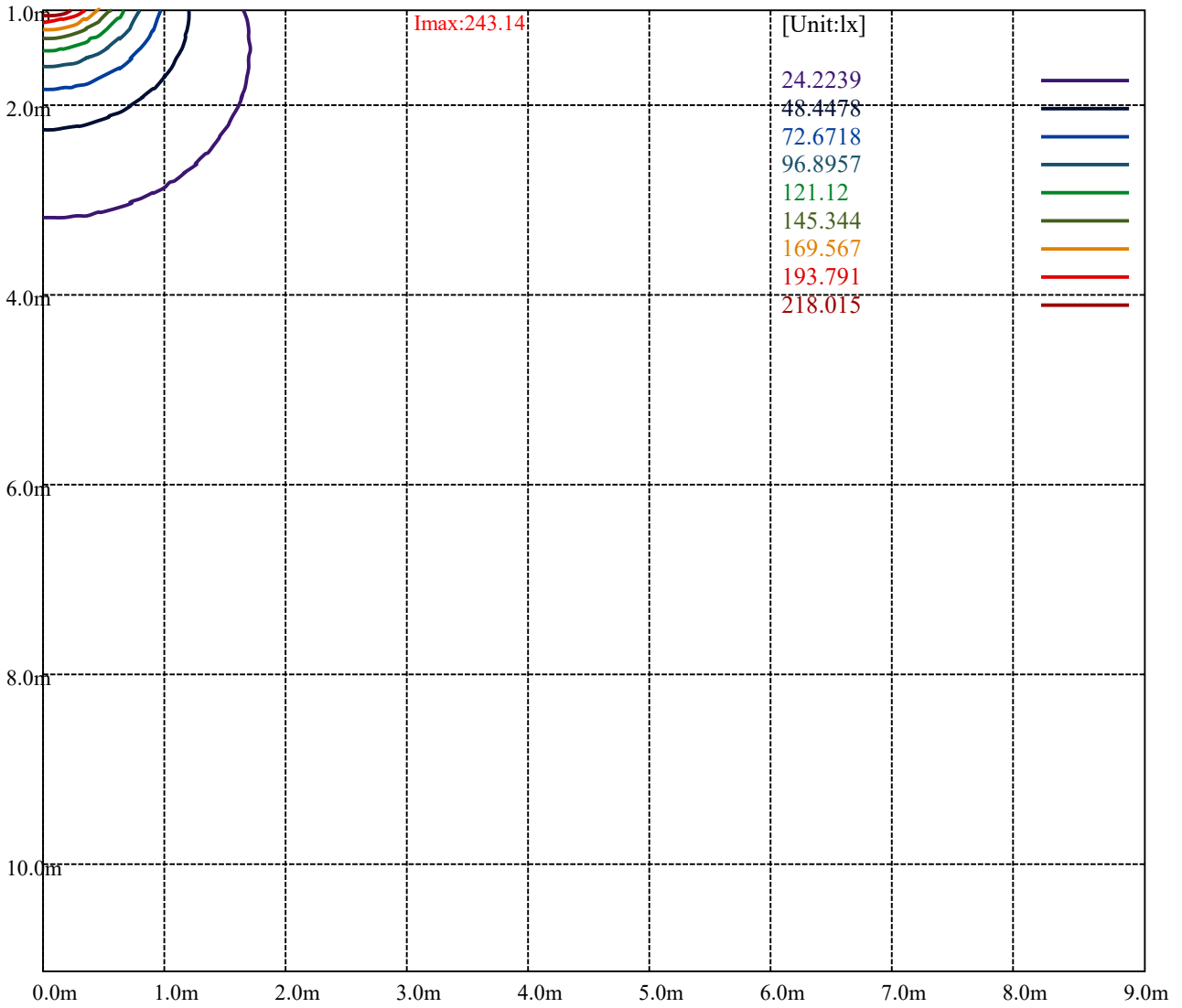
:C90/270Left:0.0 Right:0.0



Max , Ave Beam angle of C0 plane 180.00



- (10%Emax) 0.958192 ———
- (20%Emax) 1.91638 ———
- (30%Emax) 2.874572 ———
- (40%Emax) 3.832764 ———
- (50%Emax) 4.79096 ———
- (60%Emax) 5.74916 ———
- (70%Emax) 6.70732 ———
- (80%Emax) 7.66552 ———
- (90%Emax) 8.62372 ———



Luminance Table

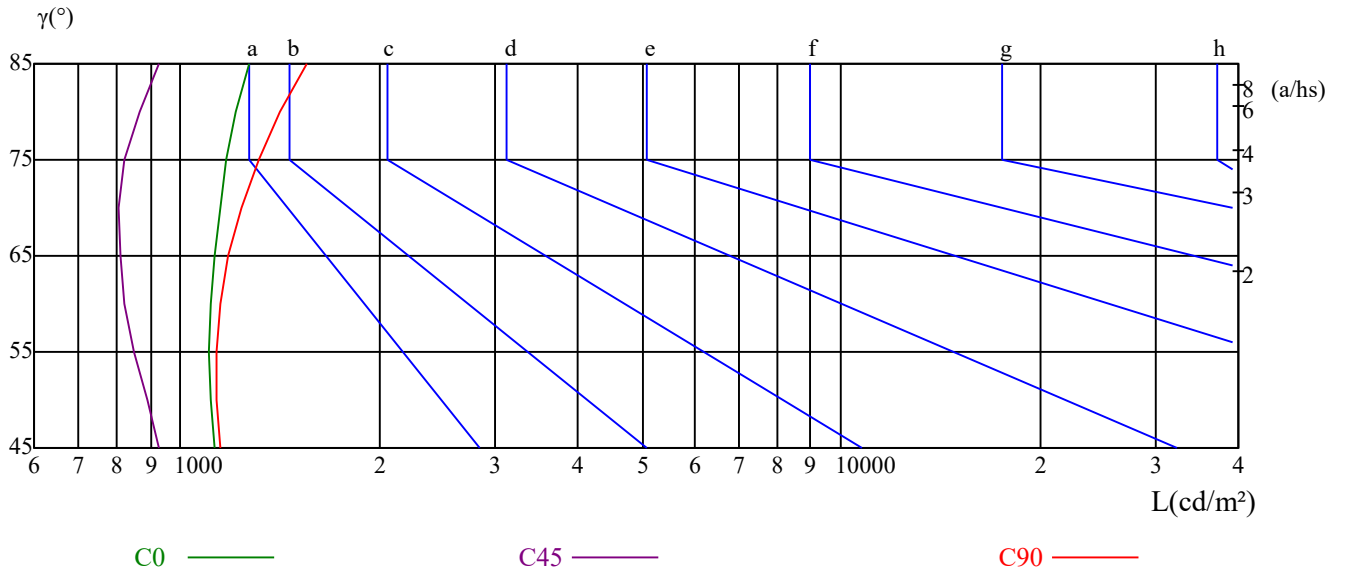
γ	45	50	55	60	65	70	75	80	85
C0	1123	1110	1105	1113	1130	1147	1175	1215	1271
C45	929	891	852	824	809	804	821	866	927
C90	1145	1136	1136	1149	1182	1238	1314	1417	1552

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3170	3413	3243	5127	5525	5206	15298	16370	15655

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	0.99	0.99	0.99	0.84	0.84	0.84	0.70	0.70	0.70	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	0.50	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	0.31	0.27
3	0.65	0.56	0.49	0.59	0.52	0.45	0.49	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	0.38	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	0.18	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 ARNC17LAJD4BKLB

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	242.24	243.14	243.14	242.24	241.34	240.44	237.75	235.06	232.37
15.0	241.34	242.24	242.24	242.24	241.34	240.44	237.75	235.06	231.47
30.0	240.44	241.34	242.24	242.24	241.34	240.44	237.75	234.16	229.68
45.0	239.55	240.44	241.34	241.34	241.34	240.44	237.75	233.27	228.78
60.0	239.55	240.44	241.34	241.34	241.34	240.44	238.65	235.06	229.68
75.0	238.65	239.55	240.44	240.44	241.34	240.44	238.65	235.96	232.37
90.0	237.75	239.55	240.44	240.44	239.55	238.65	235.96	231.47	226.99
105.0	237.75	238.65	239.55	239.55	237.75	233.27	226.99	220.71	212.63
120.0	237.75	238.65	239.55	237.75	235.06	229.68	221.60	212.63	200.97
135.0	237.75	238.65	237.75	236.86	234.16	227.88	219.81	209.94	200.07
150.0	237.75	238.65	237.75	235.96	229.68	227.88	220.71	212.63	202.76
165.0	237.75	237.75	237.75	235.96	233.27	229.68	223.40	216.22	208.15
180.0	242.24	241.34	239.55	237.75	234.16	229.68	222.50	217.12	211.74
195.0	241.34	240.44	239.55	236.86	234.16	231.47	227.88	224.30	219.81
210.0	240.44	239.55	237.75	235.96	234.16	232.37	230.58	226.99	224.30
225.0	239.55	238.65	235.96	235.06	233.27	231.47	228.78	226.99	224.30
240.0	239.55	237.75	235.96	234.16	231.47	229.68	226.99	225.19	222.50
255.0	238.65	236.86	235.06	233.27	230.58	227.88	226.09	223.40	220.71
270.0	237.75	236.86	235.06	232.37	230.58	227.88	224.30	221.60	218.91
285.0	237.75	236.86	235.06	233.27	230.58	226.99	225.19	222.50	221.60
300.0	237.75	236.86	235.96	233.27	232.37	228.78	226.09	223.40	219.81
315.0	237.75	236.86	235.96	234.16	231.47	229.68	226.99	224.30	221.60
330.0	237.75	237.75	236.86	235.06	233.27	230.58	228.78	226.09	224.30
345.0	237.75	237.75	236.86	235.96	234.16	231.47	229.68	226.99	224.30
360.0	242.24	243.14	243.14	242.24	241.34	240.44	237.75	235.06	232.37

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	228.78	225.19	221.60	218.91	216.22	211.74	207.25	202.76	198.28
15.0	226.99	222.50	217.12	212.63	209.94	206.35	202.76	199.17	195.59
30.0	223.40	218.02	210.84	205.45	200.07	196.48	194.69	193.79	193.79
45.0	221.60	214.43	205.45	197.38	191.10	185.72	183.92	186.61	190.20
60.0	222.50	214.43	206.35	196.48	187.51	178.54	179.44	186.61	192.89
75.0	226.99	221.60	216.22	210.84	205.45	203.66	202.76	204.56	207.25
90.0	221.60	218.02	214.43	211.74	210.84	211.74	213.53	216.22	219.81
105.0	204.56	197.38	193.79	192.89	194.69	198.28	202.76	208.15	213.53
120.0	190.20	178.54	170.46	170.46	175.85	181.23	186.61	193.79	198.28
135.0	189.31	182.13	175.85	174.05	174.05	175.85	179.44	185.72	192.00
150.0	193.79	186.61	181.23	176.74	174.05	173.16	175.85	180.33	185.72
165.0	200.97	193.79	186.61	179.44	174.05	169.57	167.77	169.57	172.26
180.0	204.56	196.48	186.61	177.64	169.57	168.67	174.95	180.33	185.72
195.0	214.43	208.15	202.76	197.38	193.79	192.89	193.79	195.59	199.17
210.0	221.60	218.02	215.32	212.63	210.84	208.15	206.35	205.45	204.56
225.0	222.50	220.71	218.91	216.22	213.53	209.04	204.56	200.97	197.38
240.0	220.71	218.02	216.22	212.63	208.15	203.66	197.38	192.89	186.61
255.0	218.02	215.32	212.63	209.94	205.45	200.07	195.59	193.79	184.82
270.0	216.22	213.53	209.94	209.94	204.56	200.97	198.28	194.69	191.10
285.0	216.22	212.63	209.94	207.25	204.56	202.76	200.07	199.17	197.38
300.0	217.12	214.43	211.74	209.04	206.35	205.45	203.66	202.76	200.07
315.0	218.91	216.22	214.43	212.63	210.84	209.04	208.15	207.25	206.35
330.0	221.60	219.81	217.12	215.32	213.53	211.74	209.04	206.35	204.56
345.0	222.50	219.81	218.02	216.22	212.63	208.15	204.56	200.07	195.59
360.0	228.78	225.19	221.60	218.91	216.22	211.74	207.25	202.76	198.28

AFX ARNC17LAJD4BKLB

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	192.89	186.61	181.23	175.85	169.57	170.46	176.74	183.03	189.31
15.0	192.89	190.20	187.51	185.72	183.92	183.92	183.92	184.82	185.72
30.0	193.79	194.69	195.59	196.48	198.28	197.38	195.59	192.00	190.20
45.0	194.69	198.28	201.87	205.45	209.94	211.74	209.94	206.35	202.76
60.0	198.28	204.56	209.04	214.43	218.02	220.71	220.71	218.91	216.22
75.0	211.74	215.32	218.91	222.50	224.30	226.99	227.88	226.09	223.40
90.0	222.50	223.40	224.30	225.19	225.19	225.19	224.30	222.50	221.60
105.0	217.12	218.91	218.91	218.02	217.12	216.22	214.43	213.53	213.53
120.0	203.66	207.25	207.25	205.45	203.66	202.76	201.87	200.97	200.97
135.0	196.48	198.28	195.59	192.00	190.20	188.41	188.41	189.31	187.51
150.0	187.51	187.51	185.72	184.82	184.82	184.82	185.72	186.61	187.51
165.0	175.85	179.44	182.13	183.92	187.51	190.20	192.89	193.79	194.69
180.0	191.10	194.69	199.17	202.76	206.35	209.94	210.84	211.74	211.74
195.0	201.87	204.56	207.25	209.94	212.63	214.43	215.32	216.22	216.22
210.0	204.56	203.66	203.66	204.56	205.45	207.25	210.84	213.53	215.32
225.0	192.89	189.31	185.72	183.92	184.82	189.31	190.20	200.97	207.25
240.0	181.23	175.85	174.05	164.18	165.08	174.05	182.13	189.31	194.69
255.0	181.23	177.64	174.05	172.26	170.46	173.16	176.74	182.13	183.92
270.0	188.41	183.92	178.54	174.05	171.36	170.46	172.26	174.95	174.95
285.0	191.10	185.72	180.33	174.95	170.46	167.77	165.98	167.77	170.46
300.0	195.59	191.10	185.72	181.23	175.85	171.36	166.88	166.88	174.05
315.0	203.66	200.07	197.38	192.89	191.10	190.20	190.20	192.00	194.69
330.0	201.87	200.07	197.38	195.59	195.59	196.48	199.17	202.76	206.35
345.0	190.20	186.61	182.13	180.33	181.23	185.72	191.10	196.48	200.97
360.0	192.89	186.61	181.23	175.85	169.57	170.46	176.74	183.03	189.31

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	193.79	198.28	202.76	207.25	208.15	207.25	205.45	201.87	194.69
15.0	186.61	189.31	192.00	194.69	193.79	192.00	191.10	188.41	185.72
30.0	188.41	188.41	191.10	192.00	188.41	183.92	181.23	176.74	173.16
45.0	199.17	198.28	198.28	197.38	192.89	187.51	183.03	174.05	165.98
60.0	212.63	210.84	209.94	209.04	202.76	198.28	195.59	183.03	166.88
75.0	219.81	217.12	215.32	214.43	211.74	207.25	203.66	192.89	167.77
90.0	219.81	218.91	217.12	216.22	212.63	209.04	206.35	200.97	174.05
105.0	213.53	213.53	213.53	209.04	204.56	202.76	204.56	200.07	176.74
120.0	200.07	200.97	200.07	195.59	192.00	192.00	192.00	188.41	174.95
135.0	188.41	189.31	187.51	183.03	177.64	176.74	176.74	173.16	171.36
150.0	188.41	190.20	187.51	182.13	175.85	172.26	170.46	161.49	160.60
165.0	196.48	197.38	195.59	192.00	186.61	187.51	183.92	165.98	156.11
180.0	213.53	213.53	209.04	205.45	204.56	204.56	202.76	192.00	169.57
195.0	218.02	218.91	218.91	213.53	210.84	209.94	208.15	187.51	159.70
210.0	216.22	216.22	215.32	214.43	212.63	209.94	206.35	179.44	168.67
225.0	209.94	209.04	207.25	206.35	205.45	202.76	196.48	170.46	182.13
240.0	197.38	198.28	197.38	197.38	192.00	190.20	182.13	163.29	190.20
255.0	184.82	184.82	184.82	183.92	182.13	175.85	170.46	161.49	193.79
270.0	175.85	175.85	176.74	179.44	178.54	174.05	172.26	169.57	190.20
285.0	174.05	176.74	180.33	183.92	185.72	186.61	185.72	183.03	181.23
300.0	181.23	187.51	192.89	198.28	200.07	200.07	200.07	187.51	169.57
315.0	200.07	203.66	207.25	209.94	211.74	211.74	209.04	187.51	159.70
330.0	209.04	213.53	215.32	217.12	217.12	215.32	208.15	179.44	161.49
345.0	204.56	209.04	212.63	215.32	212.63	209.94	199.17	173.16	178.54
360.0	193.79	198.28	202.76	207.25	208.15	207.25	205.45	201.87	194.69

Intensity data(cd)

C/γ(°)	180.0
0.0	164.18
15.0	186.61
30.0	194.69
45.0	197.38
60.0	194.69
75.0	182.13
90.0	167.77
105.0	160.60
120.0	167.77
135.0	181.23
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	164.18