
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): 2670.1

Power (W): 28.020

Number of Lamps: 1

PF: 0.979

Length(mm): 400

Width(mm): 360

Phm Type: C

Height(mm): 360

Photometric Results

Lumens(lm): 2670.09, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 95.29

Central intensity(cd): 256.594, Maximum intensity(cd): 256.594

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(%): 48.06%

Down flux rate of lamp(%): 51.94%

Up flux rate of LUM(%): 48.06%

Down flux rate of LUM(%): 51.94%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 27.328%

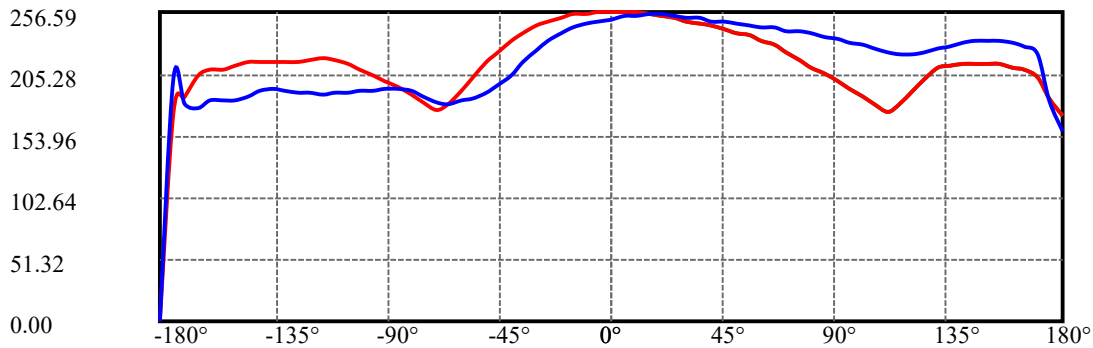
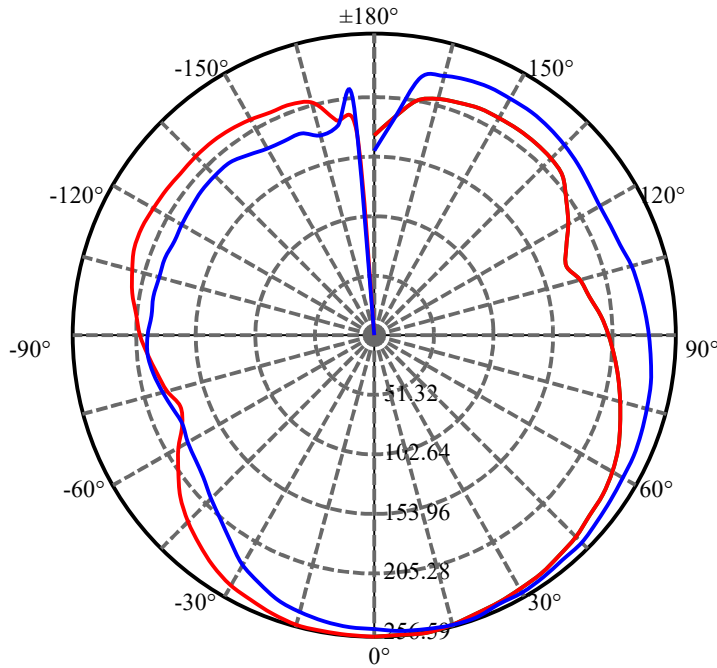
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	252.108	0.000	0	0.00%	0.00%
5.0	252.332	6.030	6.03	0.23%	0.23%
10.0	251.921	18.039	24.069	0.68%	0.90%
15.0	250.725	29.817	53.886	1.12%	2.02%
20.0	248.856	41.172	95.058	1.54%	3.56%
25.0	245.865	51.887	146.945	1.94%	5.50%
30.0	241.903	61.727	208.673	2.31%	7.82%
35.0	237.454	70.589	279.262	2.64%	10.46%
40.0	232.856	78.468	357.729	2.94%	13.40%
45.0	227.623	85.261	442.991	3.19%	16.59%
50.0	222.539	90.962	533.952	3.41%	20.00%
55.0	218.015	95.791	629.743	3.59%	23.59%
60.0	214.314	99.932	729.675	3.74%	27.33%
65.0	211.062	103.410	833.085	3.87%	31.20%
70.0	208.894	106.336	939.421	3.98%	35.18%
75.0	208.408	109.076	1048.497	4.09%	39.27%
80.0	207.959	111.408	1159.905	4.17%	43.44%
85.0	208.034	113.035	1272.94	4.23%	47.67%
90.0	207.548	113.790	1386.73	4.26%	51.94%
95.0	205.941	113.216	1499.946	4.24%	56.18%
100.0	204.296	111.471	1611.417	4.17%	60.35%
105.0	202.688	108.898	1720.315	4.08%	64.43%
110.0	201.754	105.715	1826.03	3.96%	68.39%
115.0	202.016	102.237	1928.267	3.83%	72.22%
120.0	202.801	98.412	2026.678	3.69%	75.90%
125.0	204.109	94.056	2120.734	3.52%	79.43%
130.0	205.754	89.118	2209.852	3.34%	82.76%
135.0	207.286	83.461	2293.313	3.13%	85.89%
140.0	208.258	76.942	2370.254	2.88%	88.77%
145.0	208.483	69.530	2439.785	2.60%	91.37%
150.0	208.371	61.385	2501.169	2.30%	93.67%
155.0	208.184	52.715	2553.884	1.97%	95.65%
160.0	206.240	43.465	2597.35	1.63%	97.28%
165.0	200.296	33.504	2630.854	1.25%	98.53%
170.0	186.801	22.962	2653.816	0.86%	99.39%
175.0	178.240	13.059	2666.875	0.49%	99.88%
180.0	90.615	3.214	2670.089	0.12%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	208.67	7.82%	7.82%
0-40	357.73	13.40%	13.40%
0-60	729.68	27.33%	27.33%
0-90	1386.73	51.94%	51.94%
0-120	2026.68	75.90%	75.90%
0-180	2670.09	100.00%	100.00%
60-90	657.05	24.61%	24.61%
90-120	639.95	23.97%	23.97%
90-130	823.12	30.83%	30.83%
90-150	1114.44	41.74%	41.74%
90-180	1280.15	47.94%	47.94%
0-125.86	2136.07	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	24.07
10-20	70.99
20-30	113.61
30-40	149.06
40-50	176.22
50-60	195.72
60-70	209.75
70-80	220.48
80-90	226.83
90-100	224.69
100-110	214.61
110-120	200.65
120-130	183.17
130-140	160.40
140-150	130.91
150-160	96.18
160-170	56.47
170-180	13.06



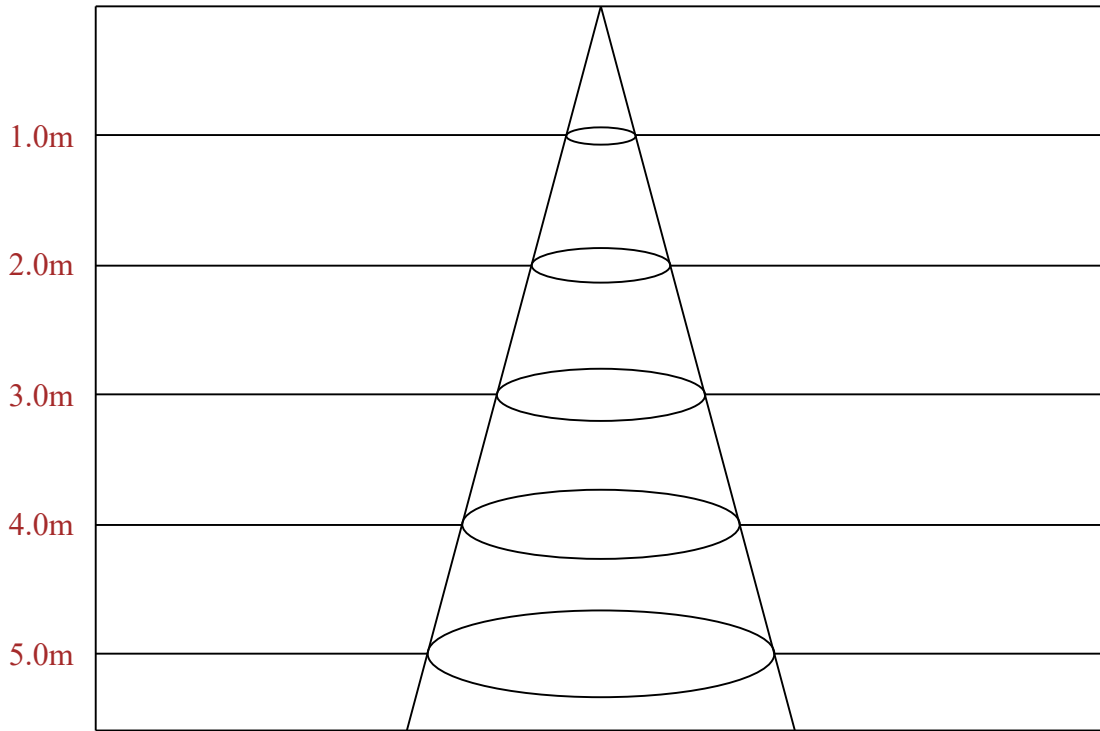
C0(Max): —————

C0/C180: —————

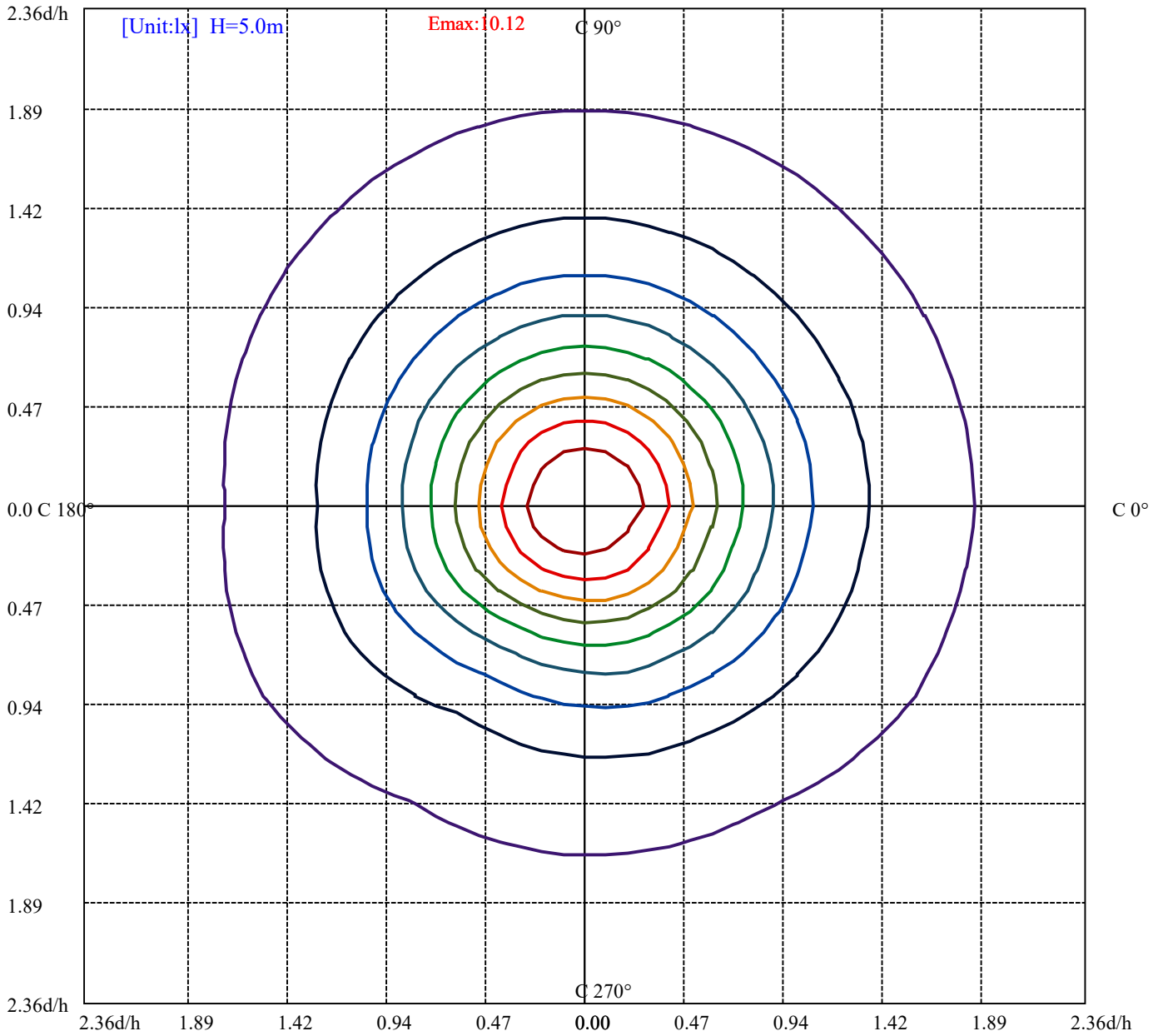
C90/C270: —————

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

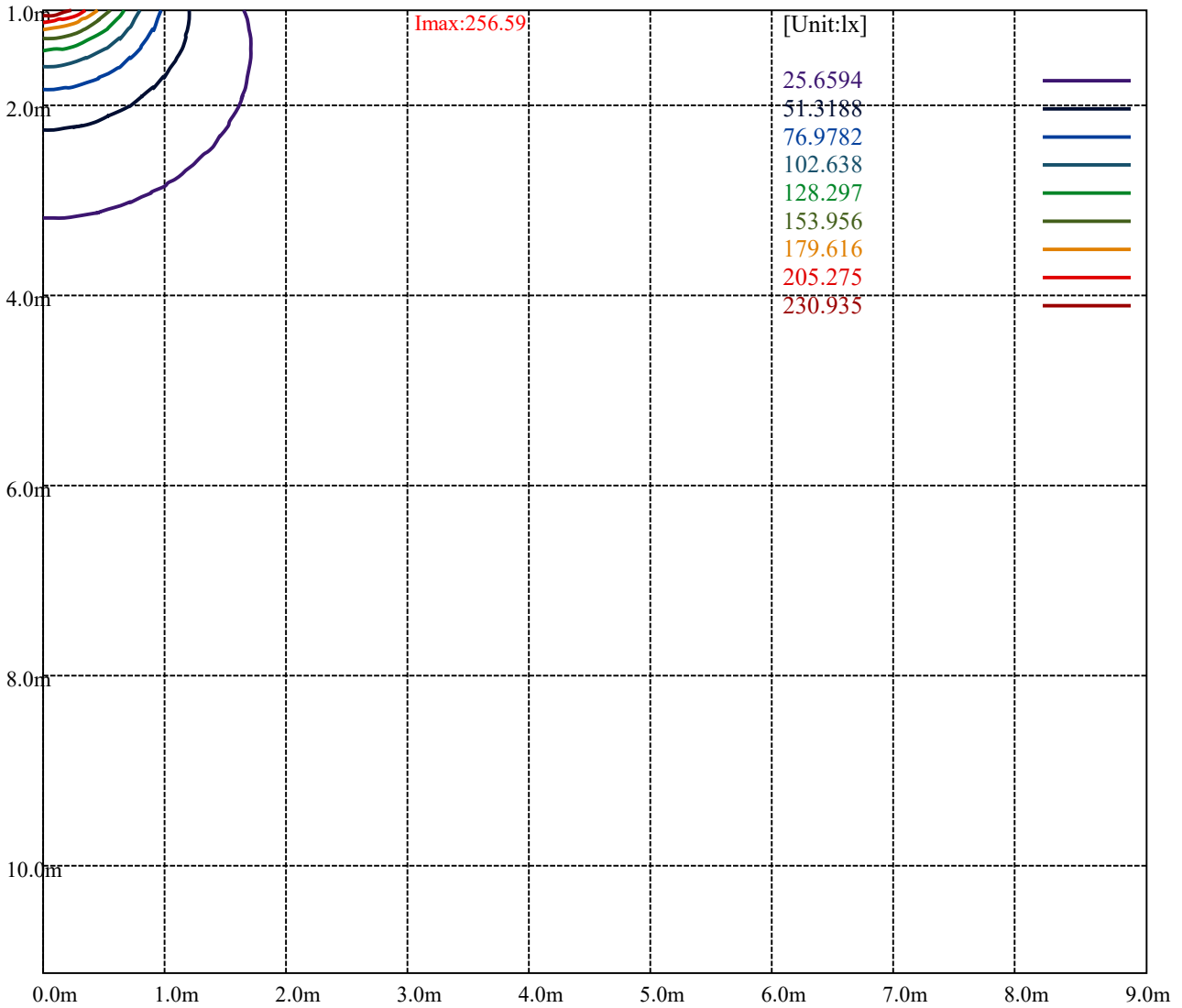
Beam Angle(50%Imax):C0/180Left:0.0 Right:0.0
:C90/270Left:0.0 Right:0.0



Max , Ave Beam angle of C0 plane 180.00



(10%Emax) 1.01202	—
(20%Emax) 2.02404	—
(30%Emax) 3.036064	—
(40%Emax) 4.04808	—
(50%Emax) 5.06012	—
(60%Emax) 6.07212	—
(70%Emax) 7.08416	—
(80%Emax) 8.09616	—
(90%Emax) 9.1082	—



Luminance Table

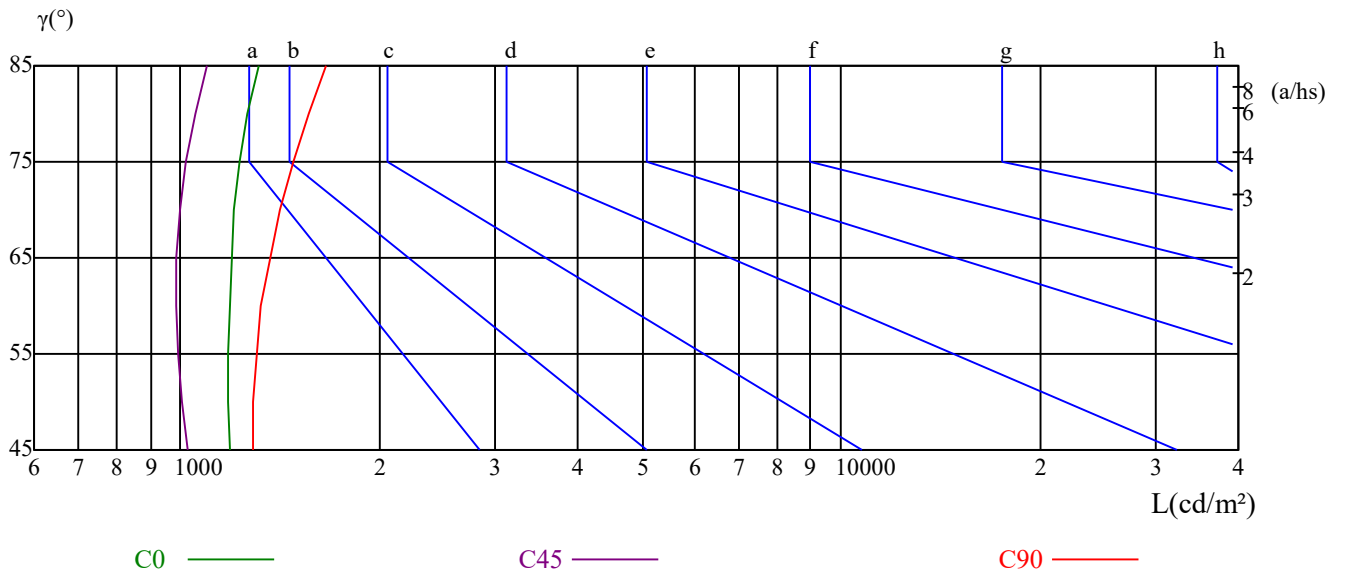
γ	45	50	55	60	65	70	75	80	85
C0	1190	1181	1181	1186	1196	1206	1226	1264	1317
C45	1023	1002	990	985	988	998	1021	1053	1097
C90	1285	1286	1302	1325	1364	1411	1480	1564	1666

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3361	3472	3509	5344	5729	5687	15906	17085	16853

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

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	256.59	256.59	256.59	254.80	253.01	251.21	249.42	247.62	244.93
15.0	255.70	255.70	255.70	254.80	253.01	252.11	249.42	247.62	245.83
30.0	253.90	254.80	254.80	254.80	253.01	252.11	250.31	248.52	246.73
45.0	253.01	253.90	254.80	254.80	253.90	253.01	252.11	249.42	247.62
60.0	252.11	253.01	253.90	254.80	254.80	253.01	252.11	250.31	247.62
75.0	251.21	253.01	253.90	254.80	254.80	253.90	252.11	250.31	249.42
90.0	250.31	253.01	253.90	254.80	254.80	253.01	252.11	251.21	249.42
105.0	250.31	252.11	253.90	254.80	254.80	253.90	252.11	250.31	248.52
120.0	250.31	252.11	253.90	253.90	254.80	253.90	252.11	249.42	246.73
135.0	251.21	252.11	253.01	253.01	253.90	253.01	250.31	247.62	244.03
150.0	250.31	251.21	252.11	252.11	250.31	250.31	247.62	244.93	240.44
165.0	250.31	250.31	251.21	251.21	249.42	247.62	244.93	241.34	235.06
180.0	256.59	256.59	255.70	254.80	252.11	249.42	244.93	239.55	232.37
195.0	255.70	254.80	253.90	252.11	250.31	247.62	243.14	238.65	233.27
210.0	253.90	253.90	253.01	250.31	248.52	244.93	239.55	233.27	227.88
225.0	253.01	252.11	250.31	247.62	244.03	237.75	230.58	221.60	212.63
240.0	252.11	251.21	249.42	246.73	240.44	233.27	222.50	210.84	199.17
255.0	251.21	250.31	248.52	244.93	239.55	231.47	221.60	210.84	199.17
270.0	250.31	249.42	247.62	244.03	239.55	232.37	224.30	214.43	204.56
285.0	250.31	249.42	247.62	244.93	241.34	235.96	227.88	219.81	218.02
300.0	250.31	250.31	247.62	244.93	244.03	235.96	230.58	224.30	218.02
315.0	251.21	249.42	247.62	245.83	244.03	241.34	236.86	232.37	227.88
330.0	250.31	250.31	248.52	245.83	244.03	241.34	238.65	236.86	233.27
345.0	250.31	250.31	248.52	246.73	244.03	242.24	240.44	237.75	235.96
360.0	256.59	256.59	256.59	254.80	253.01	251.21	249.42	247.62	244.93

C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	242.24	239.55	236.86	233.27	228.78	222.50	216.22	210.84	205.45
15.0	243.14	240.44	236.86	232.37	228.78	222.50	217.12	211.74	206.35
30.0	244.03	240.44	236.86	233.27	229.68	226.99	223.40	219.81	216.22
45.0	244.03	241.34	238.65	235.96	233.27	230.58	228.78	226.99	225.19
60.0	245.83	244.03	241.34	239.55	237.75	235.96	234.16	232.37	232.37
75.0	247.62	245.83	244.03	242.24	241.34	239.55	238.65	237.75	237.75
90.0	248.52	246.73	245.83	244.03	243.14	241.34	240.44	238.65	235.96
105.0	247.62	245.83	244.03	242.24	240.44	237.75	234.16	230.58	225.19
120.0	244.03	240.44	237.75	235.06	232.37	228.78	224.30	218.91	213.53
135.0	240.44	235.96	230.58	226.09	222.50	218.91	214.43	209.04	205.45
150.0	235.06	228.78	220.71	214.43	208.15	202.76	200.07	197.38	196.48
165.0	229.68	221.60	212.63	202.76	193.79	186.61	183.03	182.13	184.82
180.0	223.40	214.43	202.76	192.00	180.33	175.85	182.13	187.51	193.79
195.0	226.99	219.81	212.63	204.56	200.07	197.38	198.28	200.07	203.66
210.0	222.50	218.02	213.53	210.84	209.94	209.04	210.84	212.63	214.43
225.0	204.56	199.17	196.48	196.48	197.38	200.97	204.56	209.04	210.84
240.0	186.61	174.95	172.26	176.74	182.13	186.61	192.00	196.48	200.97
255.0	190.20	182.13	179.44	179.44	180.33	183.03	187.51	188.41	197.38
270.0	196.48	189.31	184.82	183.03	179.44	182.13	186.61	191.10	192.89
285.0	203.66	196.48	189.31	183.92	179.44	177.64	178.54	182.13	184.82
300.0	210.84	201.87	192.89	183.92	175.85	174.95	180.33	185.72	190.20
315.0	221.60	215.32	209.04	203.66	200.97	199.17	200.07	201.87	204.56
330.0	230.58	226.99	224.30	221.60	218.02	215.32	213.53	211.74	210.84
345.0	233.27	231.47	228.78	226.09	221.60	217.12	212.63	208.15	203.66
360.0	242.24	239.55	236.86	233.27	228.78	222.50	216.22	210.84	205.45

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	199.17	192.89	186.61	180.33	174.05	179.44	191.10	200.07	209.94
15.0	200.97	196.48	192.00	188.41	186.61	188.41	192.00	197.38	200.97
30.0	212.63	209.04	203.66	197.38	192.00	189.31	189.31	192.00	192.89
45.0	222.50	216.22	208.15	201.87	195.59	190.20	186.61	186.61	186.61
60.0	228.78	222.50	216.22	209.04	202.76	195.59	188.41	182.13	184.82
75.0	236.86	232.37	228.78	223.40	218.02	214.43	211.74	210.84	212.63
90.0	234.16	231.47	228.78	226.09	223.40	221.60	221.60	223.40	226.09
105.0	220.71	215.32	209.04	204.56	200.97	200.97	204.56	209.04	213.53
120.0	207.25	200.07	192.89	185.72	178.54	178.54	183.92	190.20	195.59
135.0	200.97	197.38	193.79	190.20	188.41	187.51	186.61	186.61	187.51
150.0	195.59	195.59	194.69	195.59	196.48	196.48	193.79	192.00	189.31
165.0	188.41	191.10	195.59	198.28	202.76	205.45	204.56	202.76	200.07
180.0	199.17	203.66	209.04	213.53	217.12	218.02	217.12	215.32	214.43
195.0	207.25	210.84	213.53	217.12	219.81	221.60	222.50	221.60	219.81
210.0	215.32	216.22	217.12	217.12	218.02	218.02	218.91	219.81	220.71
225.0	213.53	212.63	211.74	211.74	210.84	211.74	210.84	212.63	214.43
240.0	204.56	205.45	204.56	202.76	202.76	202.76	202.76	203.66	204.56
255.0	200.07	197.38	195.59	193.79	192.89	192.00	192.00	192.00	192.89
270.0	192.89	191.10	191.10	189.31	189.31	188.41	189.31	190.20	191.10
285.0	188.41	190.20	192.00	193.79	196.48	198.28	199.17	199.17	199.17
300.0	193.79	198.28	201.87	205.45	208.15	211.74	212.63	212.63	213.53
315.0	206.35	209.04	211.74	214.43	217.12	219.81	220.71	221.60	223.40
330.0	210.84	210.84	210.84	211.74	214.43	217.12	219.81	222.50	224.30
345.0	200.97	196.48	193.79	192.89	195.59	200.97	207.25	214.43	219.81
360.0	199.17	192.89	186.61	180.33	174.05	179.44	191.10	200.07	209.94
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	212.63	213.53	213.53	213.53	213.53	210.84	208.15	202.76	184.82
15.0	200.97	200.07	198.28	197.38	196.48	193.79	191.10	184.82	177.64
30.0	191.10	189.31	187.51	188.41	189.31	185.72	180.33	174.05	165.08
45.0	187.51	189.31	191.10	194.69	197.38	194.69	192.00	179.44	160.60
60.0	192.00	199.17	205.45	209.94	212.63	210.84	209.94	194.69	164.18
75.0	216.22	219.81	222.50	224.30	225.19	225.19	222.50	209.94	172.26
90.0	227.88	230.58	232.37	232.37	232.37	231.47	227.88	221.60	183.92
105.0	218.02	221.60	224.30	226.09	226.99	225.19	221.60	218.02	192.00
120.0	200.07	203.66	207.25	209.94	210.84	209.94	208.15	203.66	193.79
135.0	188.41	190.20	192.89	194.69	193.79	191.10	189.31	184.82	182.13
150.0	187.51	187.51	189.31	191.10	187.51	182.13	180.33	173.16	166.88
165.0	197.38	195.59	195.59	195.59	192.89	189.31	188.41	176.74	163.29
180.0	214.43	214.43	214.43	211.74	209.04	208.15	204.56	185.72	172.26
195.0	219.81	220.71	220.71	220.71	218.91	217.12	211.74	181.23	163.29
210.0	221.60	220.71	222.50	221.60	220.71	218.91	204.56	174.05	175.85
225.0	217.12	218.91	217.12	214.43	214.43	214.43	192.00	168.67	192.00
240.0	206.35	206.35	204.56	202.76	203.66	200.97	182.13	166.88	204.56
255.0	195.59	194.69	192.00	189.31	190.20	186.61	174.05	171.36	207.25
270.0	192.89	191.10	186.61	183.03	183.03	183.03	176.74	180.33	200.07
285.0	200.97	200.07	198.28	195.59	197.38	196.48	192.89	193.79	185.72
300.0	214.43	214.43	213.53	211.74	212.63	212.63	208.15	194.69	168.67
315.0	224.30	226.09	226.09	224.30	222.50	222.50	218.91	191.10	156.11
330.0	226.09	228.78	227.88	227.88	226.09	223.40	218.02	182.13	163.29
345.0	221.60	221.60	219.81	219.81	218.91	215.32	203.66	169.57	182.13
360.0	212.63	213.53	213.53	213.53	213.53	210.84	208.15	202.76	184.82

Intensity data(cd)

C/ γ (°)	180.0
0.0	170.46
15.0	187.51
30.0	196.48
45.0	199.17
60.0	190.20
75.0	170.46
90.0	157.01
105.0	155.21
120.0	169.57
135.0	183.92
150.0	195.59
165.0	199.17
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	170.46