

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: METALUX

Report Number: P601023

Luminaire Tested: FM119S1EWHR_3500K

Issue Date: 3/13/2023

Test Information

Test Method: LM-79-2019
Report Number: P601023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2117163A001)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: FM119S1EWHR_3500K
Description: FM119S1EWHR at 3500K
Light Source: -
Ballast/Driver: -

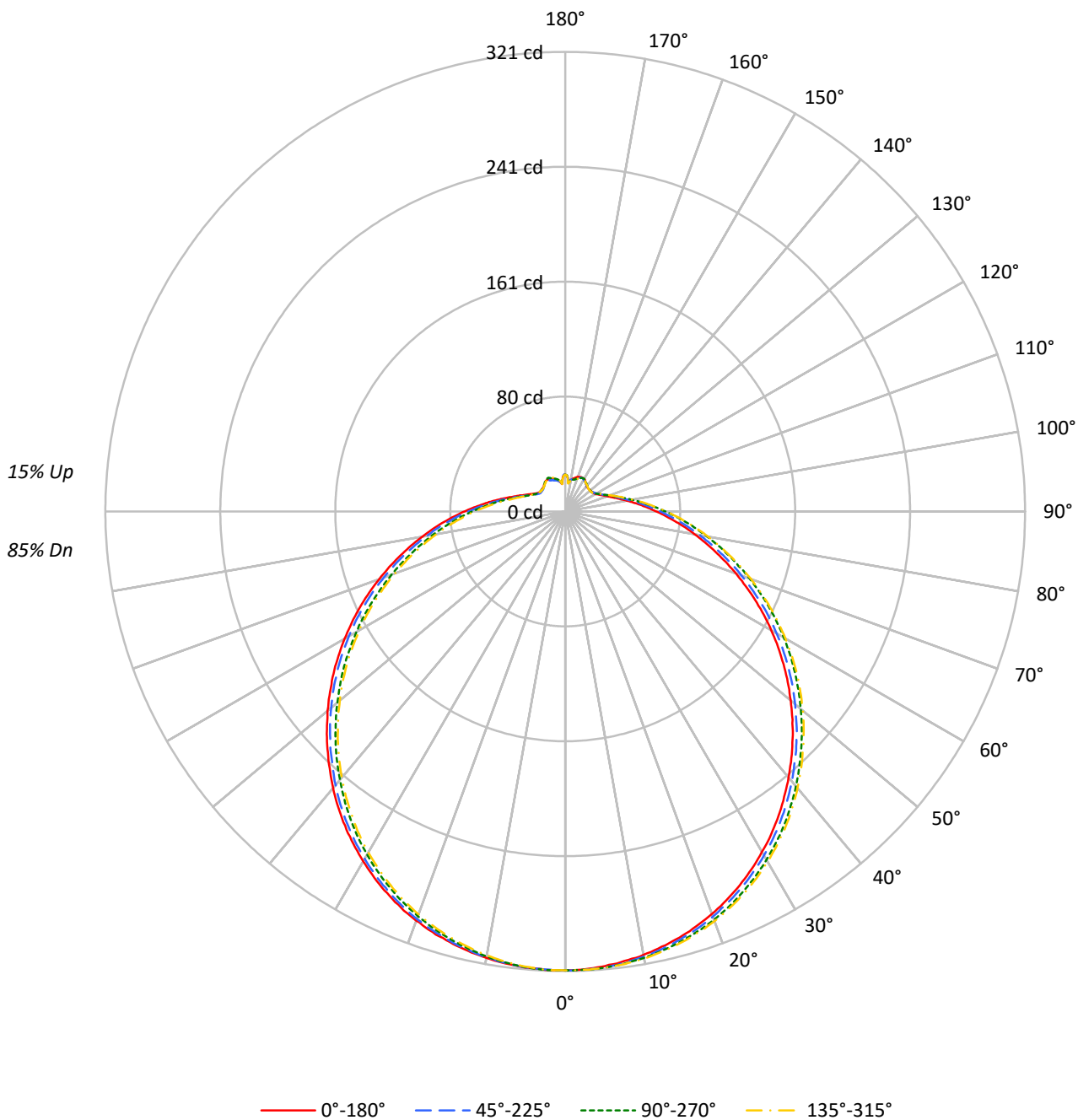
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1329.9 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.42
Luminous Opening: Vertical Cylinder (Dia: 1.08' x H: 0.33')
CIE Type: Semi-Direct

Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: FM119S1EWHR_3500K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85
1	103	97	92	87	98	93	88	84	86	82	79	79	76	74	73	71	69	65
2	92	83	75	69	88	80	73	67	74	68	63	68	63	59	63	59	56	53
3	84	72	63	56	80	70	61	55	64	57	52	59	54	49	55	50	46	43
4	76	64	54	47	73	61	53	46	57	49	44	53	46	41	49	44	39	36
5	70	57	47	40	67	54	46	39	51	43	37	47	41	36	44	38	34	31
6	64	51	41	35	62	49	40	34	45	38	32	42	36	31	39	34	29	27
7	60	46	37	30	57	44	36	30	41	34	28	38	32	27	36	30	26	24
8	55	42	33	27	53	40	32	26	38	30	25	35	29	24	33	27	23	21
9	52	38	30	24	49	37	29	24	35	28	23	32	26	22	30	25	21	19
10	48	35	27	22	46	34	26	21	32	25	20	30	24	20	28	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3766	3766	3766	3766
5°	3636	3649	3648	3644
10°	3511	3536	3536	3524
15°	3395	3427	3430	3407
20°	3278	3324	3331	3295
25°	3162	3218	3227	3180
30°	3042	3113	3125	3064
35°	2925	3008	3020	2950
40°	2805	2897	2915	2828
45°	2686	2787	2809	2711
50°	2566	2680	2706	2593
55°	2451	2577	2598	2480
60°	2332	2474	2495	2363
65°	2216	2372	2396	2249
70°	2107	2273	2295	2140
75°	2009	2188	2207	2046
80°	1937	2121	2138	1977
85°	1898	2089	2104	1940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 2815 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.4	2.3
10°-20°	87.6	6.6
20°-30°	134.4	10.1
30°-40°	165.3	12.4
40°-50°	177.4	13.3
50°-60°	171.7	12.9
60°-70°	150.9	11.3
70°-80°	120.7	9.1
80°-90°	88.7	6.7
90°-100°	60.7	4.6
100°-110°	40.3	3.0
110°-120°	27.7	2.1
120°-130°	20.8	1.6
130°-140°	17.5	1.3
140°-150°	15.4	1.2
150°-160°	11.8	0.9
160°-170°	6.7	0.5
170°-180°	2.1	0.2
0°-30°	252.3	19.0
0°-40°	417.6	31.4
0°-60°	766.7	57.7
0°-90°	1126.9	84.7
90°-120°	128.8	9.7
90°-150°	182.5	13.7
90°-180°	203.0	15.3
0°-180°	1329.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	320	320	320	320	320	
5°	319	320	320	320	319	30
15°	308	311	311	309	308	87
25°	288	293	294	290	288	133
35°	260	267	268	262	260	162
45°	224	233	235	227	224	173
55°	186	196	197	188	186	166
65°	146	156	158	148	146	145
75°	108	118	119	110	108	115
85°	77	84	85	78	77	66
90°	64	70	70	65	64	35
95°	53	58	58	54	53	41
105°	36	39	39	37	36	39
115°	27	28	28	27	27	27
125°	23	23	23	23	23	21
135°	23	23	22	22	23	18
145°	25	25	24	25	25	16
155°	26	26	25	26	26	12
165°	24	23	23	23	24	7
175°	23	22	21	23	23	2
180°	26	26	26	26	26	



TEST NUMBER: P601023
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	320.5	320.5	320.5	320.5	320.5	320.5	320.5	320.5	320.5	320.5	320.5
0.5°	320.4	320.5	320.6	320.6	320.6	320.5	320.5	320.5	320.5	320.5	320.5
1°	320.4	320.4	320.6	320.6	320.6	320.5	320.5	320.6	320.5	320.4	320.5
1.5°	320.4	320.4	320.6	320.6	320.4	320.5	320.5	320.6	320.5	320.3	320.4
2°	320.2	320.3	320.6	320.6	320.4	320.6	320.6	320.4	320.5	320.2	320.3
2.5°	320.0	320.1	320.4	320.6	320.4	320.6	320.4	320.5	320.5	320.1	320.2
3°	319.8	320.0	320.4	320.6	320.3	320.5	320.5	320.4	320.0	320.0	320.2
3.5°	319.6	319.8	320.0	320.4	320.3	320.4	320.2	320.4	319.9	319.9	320.0
4°	319.3	319.5	320.0	320.2	320.1	320.2	320.2	320.2	319.8	319.7	320.0
4.5°	319.1	319.3	319.7	320.1	320.0	320.1	320.1	320.0	319.7	319.6	319.7
5°	318.8	319.1	319.4	320.0	319.9	320.0	319.9	320.0	319.8	319.5	319.6
5.5°	318.2	318.8	319.3	319.6	319.5	320.0	319.8	320.0	319.6	319.3	319.4
6°	318.0	318.4	318.9	319.3	319.3	319.6	319.5	319.7	319.2	319.0	319.0
6.5°	317.8	318.0	318.8	319.0	319.0	319.3	319.2	319.3	318.8	318.8	318.8
7°	317.3	317.7	318.3	318.7	318.8	319.0	319.0	319.1	318.6	318.5	318.4
7.5°	316.6	317.3	317.9	318.4	318.5	318.8	318.8	318.8	318.5	318.3	318.1
8°	316.4	316.9	317.5	317.9	318.1	318.4	318.3	318.5	318.2	317.9	317.8
8.5°	315.9	316.4	317.1	317.6	317.7	318.0	318.1	318.1	317.8	317.5	317.6
9°	315.7	315.9	316.7	317.1	317.4	317.7	317.8	317.8	317.6	317.2	316.8
9.5°	315.2	315.4	316.2	316.8	317.0	317.3	317.4	317.5	317.0	316.8	316.6
10°	314.5	315.0	315.7	316.3	316.7	316.9	317.0	317.0	316.7	316.3	316.1
10.5°	313.9	314.4	315.2	315.9	316.1	316.5	316.7	316.6	316.2	315.9	315.8
11°	313.4	313.9	314.7	315.3	315.6	316.0	316.2	316.3	315.7	315.5	315.2
11.5°	312.7	313.3	314.1	314.7	315.1	315.5	315.7	315.9	315.3	315.0	314.7
12°	312.1	312.6	313.5	314.1	314.7	315.1	315.2	315.4	314.9	314.5	314.2
12.5°	311.4	312.0	312.9	313.6	314.1	314.5	314.7	314.7	314.3	313.9	313.6
13°	311.0	311.4	312.3	313.0	313.5	314.0	314.3	314.2	313.7	313.4	313.2
13.5°	310.1	310.8	311.6	312.4	312.9	313.4	313.7	313.8	313.2	312.9	312.5
14°	309.4	309.9	311.0	311.8	312.3	312.9	313.1	313.2	312.6	312.2	311.9
14.5°	308.8	309.3	310.3	311.0	311.7	312.4	312.5	312.5	312.1	311.7	311.3
15°	308.2	308.5	309.6	310.3	311.1	311.6	311.8	311.9	311.4	311.0	310.5
15.5°	307.3	307.8	308.8	309.5	310.4	311.1	311.3	311.3	310.8	310.4	309.9
16°	306.5	307.1	308.0	308.8	309.7	310.2	310.6	310.7	309.9	309.7	309.1
16.5°	305.8	306.3	307.4	308.0	308.9	309.5	309.9	309.9	309.5	308.9	308.4
17°	304.7	305.5	306.5	307.6	308.2	309.0	309.2	309.2	309.0	308.3	307.7
17.5°	303.8	304.6	305.8	306.7	307.5	308.0	308.4	308.4	308.0	307.6	306.9
18°	303.0	303.7	304.8	305.8	306.9	307.3	307.7	307.7	307.3	306.7	306.3
18.5°	302.0	302.9	304.0	305.1	306.0	306.8	307.0	306.9	306.6	306.1	305.5
19°	301.1	301.9	303.1	304.1	305.2	305.8	306.2	306.3	305.8	305.3	304.5
19.5°	300.2	301.0	302.2	303.3	304.4	305.1	305.4	305.5	304.6	304.3	303.7
20°	299.3	300.0	301.1	302.2	303.5	304.2	304.6	304.6	304.1	303.5	302.8
20.5°	298.3	299.0	300.2	301.3	302.6	303.3	303.7	303.8	303.2	302.6	301.9
21°	297.2	298.0	299.2	300.3	301.6	302.4	302.8	302.9	302.3	301.9	301.0
21.5°	296.2	296.9	297.7	299.3	300.6	301.5	301.8	302.0	301.4	300.8	300.1
22°	295.0	295.7	297.2	298.4	299.7	300.3	300.9	301.0	300.7	299.8	299.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	293.9	294.7	296.0	297.3	298.7	299.5	299.9	300.0	299.5	298.7	298.0
23°	292.8	293.6	295.0	296.3	297.7	298.4	298.9	299.0	298.2	297.7	297.0
23.5°	291.6	292.5	294.0	295.2	296.6	297.4	297.9	298.0	297.6	296.7	295.9
24°	290.5	291.3	292.7	294.1	295.5	296.3	296.9	297.0	296.4	295.7	294.8
24.5°	289.3	290.1	291.5	293.0	294.4	295.3	295.7	295.8	295.2	294.6	293.6
25°	288.1	289.1	290.4	291.7	293.2	294.0	294.6	294.7	294.1	293.5	292.6
25.5°	286.7	287.8	289.2	290.5	292.1	293.1	293.6	293.6	293.3	292.3	291.2
26°	285.5	286.4	288.0	289.5	291.0	292.0	292.4	292.4	292.1	291.1	290.3
26.5°	284.3	285.1	286.7	288.1	289.7	290.9	291.3	291.3	290.7	290.0	289.0
27°	282.9	283.9	285.5	286.9	288.7	289.6	290.0	290.1	289.7	288.8	287.8
27.5°	281.7	282.5	284.2	285.6	287.4	288.4	288.9	288.9	288.6	287.6	286.6
28°	280.4	281.2	282.9	284.4	286.1	287.1	287.6	287.8	287.1	286.3	285.3
28.5°	279.0	279.9	281.5	283.0	284.8	285.9	286.4	286.5	285.9	285.1	284.1
29°	277.4	278.5	280.3	281.8	283.7	284.6	285.1	285.2	284.6	283.8	282.7
29.5°	276.2	277.1	278.9	280.4	282.3	283.4	283.8	284.0	283.3	282.6	281.5
30°	274.6	276.0	277.5	279.0	281.0	282.0	282.5	282.6	282.1	281.2	280.1
30.5°	273.3	274.4	276.1	277.7	279.6	280.6	281.2	281.3	280.7	279.8	278.7
31°	271.9	272.9	274.6	276.2	278.2	279.4	279.8	280.0	279.4	278.5	277.3
31.5°	270.5	271.7	273.3	274.8	276.8	278.0	278.4	278.6	277.9	277.1	275.9
32°	269.0	270.2	272.0	273.4	275.5	276.6	277.1	277.2	276.6	275.7	274.5
32.5°	267.5	268.6	270.4	272.0	274.0	275.1	275.6	275.8	275.3	274.3	273.1
33°	265.9	267.2	268.8	270.8	272.6	273.6	274.2	274.4	273.9	273.0	271.6
33.5°	264.3	265.6	267.5	269.0	271.3	272.2	272.8	272.9	272.3	271.4	270.2
34°	262.7	264.0	265.8	267.7	269.8	270.8	271.4	271.6	271.2	270.1	268.7
34.5°	261.2	262.3	264.3	266.0	268.2	269.4	270.0	270.2	269.6	268.7	267.2
35°	259.5	260.8	262.7	264.4	266.8	267.9	268.4	268.7	267.9	267.2	265.7
35.5°	258.0	259.2	261.1	262.9	265.3	266.4	266.9	267.1	266.6	265.6	264.2
36°	256.3	257.5	259.6	261.2	263.6	264.8	265.4	265.6	264.9	264.0	262.5
36.5°	254.6	255.9	257.9	259.6	262.0	263.2	263.8	264.0	263.4	262.5	261.0
37°	252.9	254.2	256.2	258.1	260.4	261.8	262.2	262.5	261.9	260.9	259.3
37.5°	251.1	252.6	254.5	256.5	258.8	260.0	260.6	260.8	260.3	259.2	257.8
38°	249.5	250.8	253.0	254.8	257.2	258.3	258.9	259.2	258.7	257.6	256.1
38.5°	247.7	249.1	251.2	253.1	255.6	256.8	257.3	257.7	257.2	256.0	254.4
39°	246.1	247.4	249.5	251.4	253.8	254.9	255.7	255.9	255.4	254.2	252.8
39.5°	244.4	245.7	247.8	249.7	252.3	253.5	254.1	254.3	253.9	252.8	251.1
40°	242.6	243.9	246.1	248.0	250.5	251.6	252.3	252.5	252.1	251.0	249.3
40.5°	240.8	242.2	244.3	246.3	248.9	249.9	250.6	250.8	250.4	249.3	247.7
41°	239.0	240.4	242.5	244.5	247.1	248.3	249.0	249.1	248.7	247.6	245.9
41.5°	237.2	238.5	240.9	242.8	245.4	246.6	247.1	247.4	246.9	245.9	244.1
42°	235.5	236.7	238.9	241.0	243.6	244.9	245.4	245.7	245.2	244.1	242.3
42.5°	233.7	235.1	237.2	239.3	241.8	243.1	243.7	244.0	243.4	242.3	240.5
43°	231.9	233.3	235.6	237.5	240.1	241.3	241.9	242.2	241.7	240.6	238.7
43.5°	230.1	231.6	233.8	235.9	238.3	239.5	240.2	240.5	240.0	238.8	237.0
44°	228.3	229.8	232.0	234.1	236.4	237.8	238.4	238.7	238.1	236.9	235.4
44.5°	226.3	227.8	230.1	232.3	234.8	235.9	236.5	236.9	236.3	235.4	233.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	224.5	226.1	228.2	230.4	233.0	234.3	234.9	235.3	234.8	233.5	231.8
45.5°	222.8	224.1	226.4	228.6	231.3	232.5	233.2	233.4	233.0	231.9	230.1
46°	220.8	222.3	224.6	226.7	229.5	230.5	231.3	231.6	231.1	230.0	228.1
46.5°	218.9	220.5	222.9	224.9	227.7	228.9	229.5	229.8	229.2	228.3	226.3
47°	216.9	218.5	220.9	223.0	225.9	227.0	227.6	227.9	227.6	226.4	224.4
47.5°	215.2	216.6	219.0	221.2	224.0	225.2	225.8	226.2	225.7	224.5	222.6
48°	213.2	214.8	217.0	219.3	222.2	223.2	224.0	224.3	223.8	222.7	220.9
48.5°	211.3	212.9	215.1	217.5	220.3	221.5	222.2	222.4	221.9	220.8	219.0
49°	209.4	210.9	213.3	215.5	218.4	219.6	220.2	220.6	220.0	219.0	217.1
49.5°	207.4	209.0	211.4	213.7	216.5	217.8	218.4	218.7	218.3	217.2	215.3
50°	205.5	207.1	209.5	211.7	214.6	215.8	216.6	216.9	216.7	215.4	213.2
50.5°	203.5	205.1	207.6	209.9	212.7	213.9	214.5	214.9	214.5	213.4	211.3
51°	201.6	203.3	205.7	207.9	210.9	212.1	212.6	213.0	212.6	211.5	209.5
51.5°	199.8	201.3	203.8	206.0	209.0	210.3	210.8	211.2	210.9	209.7	207.6
52°	197.9	199.5	201.9	204.1	207.1	208.2	208.9	209.3	208.8	207.8	205.8
52.5°	195.9	197.5	200.0	202.1	205.2	206.4	206.9	207.3	207.0	205.8	203.7
53°	194.0	195.6	198.1	200.5	203.2	204.5	205.0	205.4	205.0	203.9	201.9
53.5°	192.0	193.6	196.2	198.5	201.3	202.5	203.1	203.5	203.0	201.9	200.0
54°	190.0	191.7	194.1	196.6	199.6	200.5	201.2	201.4	201.3	200.1	197.8
54.5°	187.9	189.7	192.2	194.6	197.6	198.7	199.3	199.6	199.4	198.2	196.0
55°	186.1	187.7	190.2	192.7	195.7	196.8	197.4	197.8	197.3	196.4	194.2
55.5°	184.0	185.7	188.2	190.7	193.7	194.9	195.5	195.8	195.5	194.3	192.2
56°	182.0	183.7	186.3	188.7	191.7	192.8	193.4	193.7	193.6	192.3	190.2
56.5°	180.1	181.7	184.3	186.8	189.9	191.0	191.4	191.8	191.5	190.4	188.2
57°	178.1	179.7	182.3	184.8	187.9	188.9	189.5	189.8	189.6	188.5	186.3
57.5°	176.0	177.7	180.3	183.0	186.0	187.1	187.5	187.8	187.6	186.6	184.2
58°	174.2	175.9	178.5	180.8	184.0	185.0	185.5	185.9	185.6	184.7	182.3
58.5°	172.1	173.8	176.4	178.9	182.0	183.1	183.5	183.9	183.7	182.5	180.1
59°	170.1	171.9	174.5	176.9	180.1	181.1	181.5	182.0	181.7	180.7	178.2
59.5°	168.1	169.8	172.4	174.9	178.1	179.2	179.5	179.9	179.8	178.7	176.2
60°	166.1	167.9	170.5	173.0	176.2	177.2	177.6	178.0	177.7	176.7	174.4
60.5°	164.2	165.9	168.4	171.0	174.2	175.1	175.5	175.9	175.7	174.6	172.3
61°	162.3	164.0	166.5	169.0	172.2	173.1	173.5	174.0	173.7	172.7	170.3
61.5°	160.3	161.9	164.6	167.2	170.2	171.0	171.5	172.0	171.8	170.6	168.3
62°	158.3	160.0	162.6	165.3	168.3	169.2	169.5	170.0	169.8	168.7	166.4
62.5°	156.3	157.9	160.6	163.3	166.2	167.2	167.5	168.0	167.9	166.6	164.7
63°	154.3	155.9	158.6	161.2	164.4	165.2	165.5	165.9	165.9	164.8	162.5
63.5°	152.3	153.9	156.7	159.3	162.5	163.3	163.7	164.1	163.8	162.8	160.5
64°	150.2	151.9	154.6	157.3	160.5	161.4	161.7	162.1	162.0	160.8	158.5
64.5°	148.3	150.0	152.6	155.3	158.5	159.4	159.7	160.1	160.0	158.9	156.5
65°	146.2	147.9	150.6	153.3	156.5	157.4	157.6	158.1	158.1	156.9	154.5
65.5°	144.3	146.0	148.6	151.3	154.6	155.4	155.7	156.1	156.0	154.9	152.5
66°	142.3	143.9	146.5	149.3	152.6	153.4	153.7	154.1	154.0	152.7	150.5
66.5°	140.3	142.0	144.6	147.4	150.6	151.5	151.7	152.1	152.0	150.8	148.5
67°	138.4	139.9	142.7	145.5	148.6	149.5	149.7	150.2	150.0	148.9	146.6



TEST NUMBER: P601023
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	136.4	138.1	140.6	143.4	146.8	147.5	147.8	148.2	148.1	147.0	144.8
68°	134.4	136.0	138.8	141.4	144.8	145.5	145.8	146.2	146.2	145.0	142.5
68.5°	132.6	134.2	136.8	139.5	142.7	143.5	143.8	144.1	144.1	142.9	140.5
69°	130.6	132.2	134.9	137.5	140.8	141.6	141.8	142.2	142.1	140.9	138.6
69.5°	128.8	130.4	132.9	135.6	138.9	139.6	139.8	140.2	140.1	139.0	136.5
70°	126.9	128.6	131.0	133.8	136.9	137.6	138.0	138.3	138.2	137.0	134.6
70.5°	125.0	126.6	129.2	131.7	135.0	135.8	135.9	136.3	136.3	135.1	132.8
71°	123.2	124.7	127.3	130.0	133.1	133.7	134.0	134.4	134.3	133.2	130.8
71.5°	121.2	122.9	125.4	128.1	131.5	131.8	132.0	132.4	132.4	131.2	129.1
72°	119.4	121.0	123.5	126.2	129.4	130.0	130.2	130.4	130.4	129.3	126.8
72.5°	117.6	119.1	121.8	124.3	126.8	128.2	128.3	128.7	128.7	127.4	125.1
73°	115.7	117.3	119.8	122.5	125.3	126.3	126.4	126.8	126.7	125.6	123.4
73.5°	113.9	115.5	117.9	120.6	123.6	124.5	124.6	124.9	124.8	123.7	121.4
74°	112.1	113.6	116.1	118.8	121.8	122.6	122.7	123.1	123.0	121.8	119.5
74.5°	110.3	112.0	114.3	116.9	120.1	120.7	120.8	121.2	121.2	119.9	117.6
75°	108.5	110.0	112.5	115.1	118.2	118.9	119.0	119.3	119.2	118.0	115.8
75.5°	106.8	108.3	110.7	113.2	116.3	117.1	117.1	117.5	117.3	116.2	113.9
76°	105.1	106.5	108.9	111.6	114.5	115.2	115.3	115.6	115.5	114.5	111.9
76.5°	103.3	104.8	107.2	109.7	112.7	113.4	113.5	113.9	113.6	112.5	110.3
77°	101.7	103.1	105.4	107.9	111.1	111.6	111.7	112.0	112.0	110.7	108.4
77.5°	100.0	101.3	103.7	106.3	109.2	109.8	110.0	110.3	110.1	108.9	106.9
78°	98.2	99.6	102.0	104.5	107.4	108.1	108.2	108.3	108.3	107.1	104.9
78.5°	96.6	98.0	100.3	102.8	105.7	106.3	106.4	106.8	106.6	105.4	103.3
79°	95.0	96.3	98.7	101.1	103.9	104.5	104.7	104.9	104.8	103.5	101.5
79.5°	93.5	94.8	96.9	99.4	102.2	102.8	103.0	103.2	103.0	101.8	99.9
80°	91.8	93.3	95.3	97.7	100.5	101.1	101.2	101.6	101.3	100.1	98.2
80.5°	90.3	91.7	93.8	96.1	98.8	99.4	99.5	99.8	99.6	98.3	96.3
81°	88.8	90.1	92.3	94.6	97.1	97.8	97.9	98.2	98.0	96.6	94.6
81.5°	87.1	88.5	90.6	93.1	95.5	96.1	96.2	96.5	96.1	94.9	93.3
82°	85.6	86.9	89.1	91.3	93.9	94.4	94.5	94.7	94.5	93.5	91.6
82.5°	84.2	85.5	87.5	89.8	92.4	92.9	93.1	93.4	93.1	91.8	90.0
83°	82.6	84.0	85.9	88.2	90.7	91.4	91.5	91.7	91.4	90.2	88.4
83.5°	81.1	82.4	84.5	86.6	89.2	89.8	89.9	90.1	89.8	88.6	86.8
84°	79.6	81.1	82.9	85.1	87.6	88.2	88.2	88.5	88.2	87.0	85.2
84.5°	78.2	79.5	81.5	83.6	86.0	86.5	86.7	86.9	86.6	85.4	83.6
85°	76.7	78.1	80.0	82.1	84.4	85.0	85.1	85.3	85.0	83.8	81.9
85.5°	75.4	76.7	78.5	80.7	82.9	83.5	83.6	83.9	83.5	82.3	80.5
86°	74.0	75.3	77.1	79.2	81.4	81.9	82.0	82.3	81.9	80.7	79.0
86.5°	72.6	73.9	75.7	77.7	79.9	80.4	80.6	80.8	80.4	79.2	77.6
87°	71.3	72.5	74.3	76.4	78.4	79.0	79.0	79.3	79.0	77.7	76.0
87.5°	70.0	71.3	72.9	74.9	76.9	77.5	77.6	77.9	77.4	76.2	74.7
88°	68.7	69.9	71.6	73.5	75.6	76.1	76.1	76.3	75.9	74.7	73.2
88.5°	67.5	68.6	70.3	72.2	74.1	74.7	74.8	74.9	74.5	73.3	71.7
89°	66.1	67.3	69.0	70.8	72.7	73.2	73.4	73.5	73.2	71.9	70.4
89.5°	64.9	66.1	67.7	69.6	71.4	71.9	72.0	72.1	71.8	70.5	69.1



TEST NUMBER: P601023
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	63.7	64.8	66.5	68.2	70.1	70.5	70.5	70.7	70.4	69.3	67.6
90.5°	62.4	63.6	65.2	66.9	68.6	69.1	69.2	69.4	69.0	67.9	66.4
91°	61.2	62.4	64.0	65.7	67.3	67.9	68.0	68.2	67.6	66.7	65.0
91.5°	60.1	61.2	62.8	64.5	66.0	66.5	66.7	66.8	66.3	64.9	63.5
92°	59.1	60.1	61.6	63.3	64.7	65.2	65.3	65.5	65.0	63.9	62.7
92.5°	57.9	59.0	60.5	62.1	63.4	63.9	64.0	64.2	63.8	62.6	61.4
93°	56.9	58.0	59.4	60.8	62.2	62.6	62.8	63.0	62.5	61.4	60.0
93.5°	55.8	56.9	58.3	59.7	61.1	61.5	61.5	61.7	61.3	60.3	58.9
94°	54.7	55.8	57.2	58.7	59.8	60.3	60.4	60.5	60.0	59.1	58.0
94.5°	53.7	54.8	56.1	57.7	58.7	59.1	59.2	59.4	58.9	58.2	56.7
95°	52.7	53.8	55.1	56.5	57.6	58.2	58.2	58.2	57.8	57.0	55.6
95.5°	51.6	52.7	54.2	55.4	56.4	56.9	57.0	57.0	56.8	55.7	54.5
96°	50.6	51.6	53.1	54.4	55.3	55.8	55.9	56.0	55.6	54.6	53.6
96.5°	49.8	50.8	52.0	53.3	54.4	54.8	54.8	54.8	54.4	53.7	52.5
97°	48.8	49.8	51.1	52.3	53.5	53.7	53.8	53.8	53.7	52.6	51.2
97.5°	47.8	48.9	50.1	51.2	52.4	52.6	52.7	52.5	52.4	51.3	50.3
98°	47.0	47.9	49.1	50.3	51.2	51.5	51.6	51.6	51.4	50.3	49.2
98.5°	46.1	47.1	48.2	49.3	50.3	50.5	50.6	50.6	50.3	49.4	48.2
99°	45.2	46.2	47.3	48.4	49.2	49.5	49.6	49.7	49.3	48.4	47.2
99.5°	44.4	45.3	46.3	47.5	48.2	48.5	48.8	48.6	48.3	47.7	46.3
100°	43.6	44.5	45.6	46.6	47.3	47.9	47.7	47.6	47.4	46.5	45.4
100.5°	42.8	43.6	44.7	45.7	46.3	46.7	46.7	47.0	46.5	45.7	44.7
101°	41.9	42.8	43.9	44.9	45.5	45.9	45.5	45.8	45.7	44.8	43.7
101.5°	41.2	42.1	43.0	44.0	44.6	44.9	44.9	44.9	44.7	44.1	42.9
102°	40.5	41.3	42.3	43.2	43.8	44.0	44.1	44.0	43.8	43.0	41.9
102.5°	39.6	40.5	41.5	42.5	42.8	43.2	43.1	43.5	42.9	42.3	41.3
103°	39.0	40.0	40.6	41.5	42.0	42.4	42.5	42.3	42.0	41.5	40.5
103.5°	38.3	39.2	40.0	40.9	41.5	41.6	41.6	41.8	41.3	40.5	39.6
104°	37.6	38.5	39.4	40.1	40.5	40.9	40.8	41.0	40.6	39.7	39.1
104.5°	37.0	37.9	38.7	39.4	39.7	40.5	40.4	40.2	40.2	38.9	38.2
105°	36.4	37.2	38.0	38.7	39.2	39.4	39.3	39.4	39.0	38.4	37.5
105.5°	35.8	36.7	37.4	38.0	38.4	38.6	38.6	38.5	38.3	37.6	36.7
106°	35.2	35.9	36.8	37.4	37.7	38.1	38.0	37.9	37.5	37.1	36.3
106.5°	34.5	35.5	36.2	36.9	37.0	37.3	37.4	37.1	37.0	36.3	35.7
107°	34.0	34.8	35.7	36.2	36.4	36.4	36.7	36.5	36.3	35.9	34.9
107.5°	33.5	34.3	35.0	35.6	35.9	36.1	36.1	35.9	35.8	35.0	34.2
108°	33.0	33.6	34.5	35.0	35.0	35.3	35.4	35.3	35.1	34.5	33.6
108.5°	32.5	33.1	33.9	34.4	34.5	34.8	34.8	34.8	34.5	34.0	33.1
109°	32.0	32.6	33.3	33.9	33.8	34.2	34.2	34.1	34.1	33.5	32.8
109.5°	31.5	32.2	32.8	33.3	33.3	33.7	33.8	33.7	33.5	32.8	31.9
110°	31.1	31.6	32.4	32.8	32.7	33.1	33.1	33.0	32.7	32.1	31.4
110.5°	30.7	31.1	31.8	32.3	32.2	32.5	32.7	32.5	32.1	31.6	30.9
111°	30.2	30.7	31.4	31.9	31.7	32.0	32.1	31.9	31.6	31.3	30.4
111.5°	29.8	30.3	31.0	31.4	31.3	31.6	31.5	31.6	31.3	30.6	29.9
112°	29.4	29.8	30.5	31.0	30.8	31.1	31.1	31.0	30.8	30.3	29.5



TEST NUMBER: P601023
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	29.1	29.4	30.1	30.5	30.5	30.6	30.6	30.5	30.4	29.7	29.1
113°	28.7	29.0	29.7	30.1	29.8	30.4	30.4	30.0	29.8	29.3	28.5
113.5°	28.3	28.6	29.3	29.6	29.3	29.6	29.7	29.5	29.4	28.8	28.3
114°	28.0	28.3	28.9	29.3	29.0	29.4	29.3	29.2	28.9	28.4	27.7
114.5°	27.7	27.9	28.5	28.9	28.6	28.9	28.8	28.7	28.5	28.1	27.3
115°	27.3	27.6	28.2	28.5	28.3	28.4	28.5	28.3	28.3	27.6	27.3
115.5°	26.9	27.2	27.9	28.2	27.8	28.2	28.1	28.1	27.8	27.2	26.8
116°	26.6	26.9	27.6	27.9	27.5	27.6	27.7	27.5	27.4	27.1	26.1
116.5°	26.3	26.6	27.2	27.5	27.2	27.3	27.5	27.2	27.2	26.6	26.1
117°	26.0	26.2	26.9	27.2	26.9	27.3	27.2	27.2	26.7	26.2	25.5
117.5°	25.8	26.0	26.6	26.9	26.4	26.9	26.9	26.5	26.3	26.0	25.2
118°	25.5	25.7	26.2	26.6	26.1	26.3	26.3	26.1	26.0	25.6	24.9
118.5°	25.2	25.3	25.9	26.3	25.9	26.1	26.1	26.0	25.9	25.3	24.7
119°	24.9	25.1	25.7	26.0	25.4	26.0	25.9	25.5	25.4	25.0	24.3
119.5°	24.7	24.9	25.4	25.8	25.2	25.4	25.4	25.2	25.1	24.9	24.1
120°	24.5	24.6	25.1	25.4	24.9	25.1	25.2	24.9	24.9	24.6	23.8
120.5°	24.2	24.4	24.9	25.2	24.7	25.0	25.0	24.8	24.7	24.2	23.7
121°	24.1	24.2	24.7	25.0	24.4	24.8	24.7	24.4	24.2	24.0	23.3
121.5°	24.0	24.0	24.5	24.7	24.1	24.3	24.3	24.2	24.0	23.8	23.0
122°	24.0	24.0	24.3	24.6	23.9	24.1	24.1	24.0	23.9	23.9	23.0
122.5°	23.8	23.8	24.1	24.4	23.8	23.9	23.9	23.7	23.8	23.3	22.8
123°	23.8	23.7	24.1	24.2	23.6	23.8	23.8	23.7	23.3	23.1	22.8
123.5°	23.6	23.5	24.0	24.0	23.3	23.6	23.5	23.3	23.1	23.1	22.4
124°	23.5	23.4	23.8	24.1	23.1	23.3	23.3	23.1	23.1	22.9	22.2
124.5°	23.4	23.3	23.7	24.0	23.0	23.1	23.1	23.0	22.9	22.8	22.1
125°	23.4	23.1	23.6	23.8	22.9	23.0	23.0	22.9	22.8	22.6	21.9
125.5°	23.3	23.0	23.4	23.7	22.9	23.0	22.9	22.8	22.7	22.4	21.8
126°	23.1	22.8	23.4	23.6	22.9	22.9	22.9	22.8	22.4	22.2	21.7
126.5°	23.1	22.8	23.3	23.6	22.8	22.9	22.9	22.5	22.3	22.2	21.7
127°	23.0	22.6	23.2	23.4	22.8	22.7	22.7	22.5	22.3	22.2	21.8
127.5°	22.8	22.6	23.1	23.4	22.8	22.8	22.7	22.5	22.3	22.2	21.6
128°	22.8	22.6	22.9	23.3	22.8	22.8	22.6	22.4	22.2	22.2	21.6
128.5°	22.8	22.6	22.9	23.2	22.8	22.7	22.6	22.4	22.2	22.1	21.6
129°	22.8	22.6	22.9	23.2	22.8	22.7	22.6	22.4	22.2	22.1	21.6
129.5°	22.8	22.6	22.9	23.1	22.8	22.7	22.6	22.4	22.2	22.1	21.6
130°	22.8	22.6	22.8	23.1	22.8	22.7	22.6	22.4	22.2	22.1	21.6
130.5°	22.8	22.6	22.8	23.0	22.8	22.7	22.6	22.4	22.2	22.1	21.6
131°	22.8	22.6	22.8	23.0	22.8	22.7	22.6	22.4	22.2	22.1	21.6
131.5°	22.7	22.6	22.8	23.0	22.8	22.7	22.6	22.4	22.2	22.1	21.6
132°	22.7	22.6	22.8	23.0	22.8	22.7	22.6	22.5	22.2	22.1	21.6
132.5°	22.7	22.6	22.8	23.0	22.8	22.8	22.6	22.5	22.2	22.1	21.6
133°	22.7	22.6	22.8	23.0	22.8	22.8	22.6	22.5	22.2	22.2	21.6
133.5°	22.7	22.6	22.8	23.0	22.8	22.8	22.6	22.5	22.2	22.2	21.8
134°	22.7	22.6	22.8	23.0	22.9	22.9	22.7	22.5	22.2	22.2	21.8
134.5°	22.7	22.6	22.8	23.0	22.9	22.9	22.7	22.5	22.4	22.3	21.8



TEST NUMBER: P601023
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	22.7	22.8	22.8	23.0	23.0	22.9	22.8	22.6	22.3	22.4	21.8
135.5°	22.8	22.8	22.8	23.0	23.1	22.9	22.8	22.6	22.4	22.3	21.9
136°	22.7	22.8	22.9	23.0	23.2	23.0	23.0	22.7	22.4	22.4	22.0
136.5°	22.7	22.9	22.9	23.0	23.2	23.1	23.0	22.7	22.6	22.5	22.0
137°	22.9	23.0	22.9	23.1	23.3	23.2	23.2	22.8	22.5	22.5	22.2
137.5°	22.9	23.0	22.9	23.0	23.3	23.3	23.2	22.9	22.7	22.6	22.3
138°	22.9	23.1	23.0	23.0	23.4	23.4	23.4	23.0	22.8	22.8	22.3
138.5°	22.9	23.1	23.0	23.2	23.6	23.5	23.4	23.2	22.9	22.9	22.5
139°	23.1	23.3	23.1	23.3	23.7	23.6	23.5	23.2	23.1	23.0	22.6
139.5°	23.0	23.4	23.2	23.5	23.8	23.6	23.7	23.4	23.1	23.0	22.7
140°	23.2	23.7	23.4	23.8	23.9	23.9	23.8	23.5	23.2	23.1	22.9
140.5°	23.3	23.7	23.8	23.9	24.0	23.9	23.8	23.6	23.4	23.3	23.0
141°	23.8	23.8	23.8	23.9	24.0	23.9	23.9	23.8	23.5	23.3	23.1
141.5°	23.9	24.0	23.9	23.9	24.1	24.1	23.9	23.8	23.7	23.5	23.1
142°	23.9	24.1	23.9	24.0	24.2	24.1	24.0	24.0	23.8	23.7	23.3
142.5°	24.0	24.2	23.9	24.1	24.4	24.2	24.1	24.1	23.9	23.7	23.4
143°	24.2	24.7	23.9	24.2	24.5	24.3	24.1	24.1	24.0	23.9	23.4
143.5°	24.4	24.9	24.1	24.4	24.7	24.5	24.3	24.3	24.1	23.9	23.6
144°	24.8	24.9	24.2	24.6	24.8	24.5	24.5	24.4	24.2	24.0	23.6
144.5°	24.9	25.0	24.4	24.9	25.0	24.8	24.6	24.5	24.4	24.2	23.8
145°	24.9	25.3	24.7	24.9	25.2	24.9	24.8	24.7	24.5	24.3	23.9
145.5°	25.1	25.4	25.0	25.0	25.4	25.1	24.8	24.7	24.7	24.4	24.0
146°	25.2	25.7	24.9	25.1	25.5	25.2	25.0	25.0	24.9	24.5	24.1
146.5°	25.3	26.0	25.0	25.2	25.7	25.4	25.2	25.1	25.0	24.6	24.1
147°	25.5	26.0	25.2	25.4	25.7	25.7	25.4	25.2	25.1	24.8	24.3
147.5°	25.9	26.0	25.2	25.4	25.9	25.7	25.4	25.4	25.1	24.9	24.3
148°	26.0	26.1	25.3	25.5	26.0	25.9	25.6	25.4	25.3	24.9	24.4
148.5°	26.2	26.0	25.3	25.8	26.1	26.0	25.6	25.4	25.4	25.0	24.3
149°	26.2	26.2	25.4	25.8	26.3	26.1	25.6	25.4	25.4	25.0	24.3
149.5°	26.2	26.2	25.6	26.0	26.3	26.1	25.6	25.4	25.4	25.1	24.3
150°	26.3	26.2	25.8	26.0	26.3	26.1	25.6	25.4	25.4	25.1	24.3
150.5°	26.3	26.5	26.0	26.1	26.3	26.1	25.6	25.4	25.4	25.0	24.3
151°	26.4	26.7	26.1	26.1	26.3	26.1	25.6	25.4	25.4	25.0	24.3
151.5°	26.4	26.7	26.1	26.1	26.3	26.1	25.5	25.4	25.5	24.9	24.3
152°	26.4	26.7	26.2	26.1	26.3	26.2	25.5	25.5	25.5	24.9	24.3
152.5°	26.4	26.7	26.2	26.2	26.3	26.1	25.5	25.5	25.4	24.9	24.3
153°	26.4	26.7	26.1	26.2	26.2	26.1	25.5	25.4	25.3	24.9	24.4
153.5°	26.4	26.7	26.2	26.3	26.2	26.0	25.5	25.3	25.2	24.9	24.4
154°	26.4	26.7	26.2	26.2	26.0	25.9	25.4	25.3	25.2	24.9	24.3
154.5°	26.4	26.7	26.0	26.1	25.9	25.7	25.4	25.2	25.0	24.9	24.3
155°	26.4	26.6	26.0	26.1	25.6	25.5	25.2	25.0	25.0	24.9	24.1
155.5°	26.4	26.4	25.9	25.9	25.4	25.4	25.2	25.1	25.0	24.8	24.1
156°	26.4	26.3	25.7	25.9	25.2	25.2	25.1	25.0	24.9	24.4	24.0
156.5°	26.4	26.2	25.6	25.7	25.1	25.1	25.0	25.0	24.9	24.3	24.0
157°	26.2	26.1	25.5	25.6	25.0	25.0	25.0	25.0	24.9	24.2	23.8



TEST NUMBER: P601023
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	26.1	26.0	25.4	25.6	25.0	25.0	25.0	24.9	24.9	24.2	23.8
158°	26.1	25.9	25.3	25.4	25.0	25.1	25.0	24.9	24.7	24.1	23.8
158.5°	26.0	25.7	25.3	25.2	24.9	25.0	24.8	24.7	24.4	24.0	23.8
159°	25.8	25.7	25.2	25.2	24.7	24.8	24.5	24.6	24.3	23.9	23.6
159.5°	25.8	25.4	25.0	25.0	24.4	24.6	24.3	24.3	24.2	24.0	23.2
160°	25.8	25.4	25.0	24.8	24.4	24.4	24.2	24.3	24.2	23.8	23.1
160.5°	25.6	25.3	24.8	24.7	24.1	24.3	24.1	24.3	24.1	23.5	23.1
161°	25.5	25.2	24.7	24.5	24.0	24.1	24.0	24.2	23.9	23.3	23.1
161.5°	25.3	25.1	24.6	24.5	23.9	23.9	23.9	24.0	23.9	23.3	22.9
162°	25.1	25.0	24.4	24.3	24.0	23.8	23.8	23.9	23.9	23.2	22.9
162.5°	24.9	24.7	24.3	24.2	23.8	23.8	23.8	24.0	23.7	23.0	22.8
163°	24.7	24.6	24.1	24.1	23.4	23.6	23.7	24.0	23.3	23.1	22.9
163.5°	24.4	24.4	24.1	24.0	23.2	23.3	23.6	23.8	23.1	22.9	22.8
164°	24.2	24.2	24.1	24.0	23.1	23.1	23.4	23.6	23.0	22.9	22.7
164.5°	24.1	24.0	24.0	23.9	23.0	23.0	23.3	23.3	22.9	22.8	22.4
165°	24.0	24.0	23.9	23.9	22.9	23.0	23.1	23.1	22.9	22.4	22.2
165.5°	23.9	23.8	23.8	23.7	22.9	22.9	23.0	23.1	22.9	22.3	22.2
166°	23.7	23.7	23.8	23.6	22.8	22.9	23.0	23.1	22.8	22.2	22.2
166.5°	23.5	23.6	23.6	23.5	22.9	22.9	22.9	22.9	22.3	22.0	22.0
167°	23.4	23.5	23.4	23.3	22.8	22.7	22.8	22.9	22.2	21.9	22.0
167.5°	23.2	23.3	23.2	23.2	22.4	22.4	22.6	22.9	22.0	21.8	21.8
168°	23.0	23.1	23.1	22.9	22.3	22.3	22.3	22.8	21.8	21.7	21.7
168.5°	22.8	23.0	22.9	22.7	22.2	22.1	22.0	22.5	21.5	21.7	21.6
169°	22.7	22.8	22.7	22.5	22.0	22.0	21.9	22.0	21.6	21.7	21.6
169.5°	22.6	22.6	22.6	22.4	21.8	21.8	21.6	21.7	21.1	21.4	21.3
170°	22.4	22.4	22.4	22.3	21.8	21.7	21.6	21.5	20.9	21.0	21.0
170.5°	22.2	22.2	22.2	22.0	21.7	21.7	21.6	21.0	20.7	20.8	20.9
171°	22.0	22.2	22.0	21.9	21.8	21.7	21.1	20.7	20.6	20.7	20.7
171.5°	21.7	21.9	21.8	21.7	21.5	21.4	21.0	20.4	20.4	20.6	20.5
172°	21.5	21.7	21.6	21.5	21.1	21.1	20.7	20.0	20.3	20.4	20.4
172.5°	21.3	21.4	21.3	21.2	20.7	20.9	20.4	19.7	19.8	20.1	20.2
173°	20.9	20.9	20.9	20.8	20.4	20.5	20.0	19.5	19.5	19.7	19.8
173.5°	20.5	20.7	20.5	20.5	20.2	20.3	19.7	19.5	19.3	19.7	19.8
174°	20.5	20.7	20.5	20.5	20.1	20.3	19.7	19.6	19.4	19.7	19.9
174.5°	21.8	22.3	22.2	21.8	20.7	20.5	19.9	19.8	19.6	19.9	20.2
175°	22.9	23.3	23.2	23.1	22.2	21.6	21.3	21.3	21.1	21.4	21.7
175.5°	23.4	23.9	23.9	23.8	23.6	23.3	23.0	23.0	22.9	22.9	23.4
176°	23.8	24.2	24.3	23.9	24.1	24.0	23.9	23.9	23.8	23.8	24.1
176.5°	24.1	24.7	24.7	24.3	24.5	24.5	24.3	24.3	24.2	24.2	24.6
177°	24.8	24.9	24.9	25.0	25.0	24.9	24.8	24.8	24.8	24.7	25.0
177.5°	25.0	25.1	25.3	25.0	25.4	25.4	25.3	25.4	25.3	25.3	25.5
178°	25.2	25.2	25.4	25.3	25.4	25.5	25.5	25.4	25.7	25.7	25.8
178.5°	25.3	25.4	25.4	25.3	25.4	25.5	25.4	25.4	25.7	25.8	25.8
179°	25.5	25.5	25.4	25.5	25.4	25.4	25.5	25.4	25.6	25.8	25.7
179.5°	25.7	25.6	25.5	25.9	25.4	25.4	25.5	25.4	25.6	25.8	25.8



TEST NUMBER: P601023
CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9



TEST NUMBER: P601023
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	320.5	320.5	320.5	320.5	320.5	320.5
0.5°	320.6	320.5	320.5	320.5	320.5	320.4
1°	320.4	320.5	320.5	320.5	320.6	320.4
1.5°	320.4	320.5	320.6	320.5	320.6	320.4
2°	320.2	320.6	320.6	320.5	320.5	320.2
2.5°	320.2	320.6	320.4	320.4	320.2	320.0
3°	320.0	320.4	320.2	320.2	320.1	319.8
3.5°	320.0	320.2	319.9	320.0	319.9	319.6
4°	319.9	320.0	319.7	319.6	319.5	319.3
4.5°	319.7	319.8	319.5	319.3	319.3	319.1
5°	319.3	319.5	319.2	319.1	319.1	318.8
5.5°	319.1	319.2	319.0	318.8	318.7	318.2
6°	318.8	318.9	318.7	318.4	318.4	318.0
6.5°	318.6	318.6	318.2	318.0	317.9	317.8
7°	318.2	318.2	318.0	317.6	317.5	317.3
7.5°	317.8	317.8	317.6	317.3	317.1	316.6
8°	317.5	317.4	317.1	316.8	316.7	316.4
8.5°	317.0	317.0	316.6	316.4	316.2	315.9
9°	316.7	316.6	316.2	315.8	315.8	315.7
9.5°	316.2	316.1	315.6	315.3	315.3	315.2
10°	315.8	315.6	315.1	314.8	314.7	314.5
10.5°	315.3	315.1	314.7	314.2	314.2	313.9
11°	314.8	314.5	314.0	313.7	313.5	313.4
11.5°	314.3	313.9	313.4	313.1	313.0	312.7
12°	313.8	313.3	312.7	312.4	312.3	312.1
12.5°	313.2	312.7	312.1	311.7	311.6	311.4
13°	312.5	312.1	311.5	311.1	311.0	311.0
13.5°	312.0	311.4	310.7	310.4	310.2	310.1
14°	311.4	310.7	310.1	309.6	309.6	309.4
14.5°	310.6	310.1	309.3	308.8	308.9	308.8
15°	310.0	309.3	308.6	308.1	308.0	308.2
15.5°	309.2	308.5	308.0	307.6	307.4	307.3
16°	308.5	307.8	307.0	306.7	306.6	306.5
16.5°	307.7	307.1	306.4	305.8	305.8	305.8
17°	307.1	306.3	305.6	305.0	304.9	304.7
17.5°	306.4	305.3	304.7	304.0	304.0	303.8
18°	305.6	304.5	303.7	303.2	303.2	303.0
18.5°	304.7	303.6	302.9	302.3	302.2	302.0
19°	303.8	302.6	301.8	301.4	301.3	301.1
19.5°	303.0	301.7	300.9	300.4	300.2	300.2
20°	302.1	300.8	300.0	299.4	299.2	299.3
20.5°	301.1	299.7	298.9	298.4	298.2	298.3
21°	300.0	298.7	297.9	297.4	297.3	297.2
21.5°	299.0	297.7	296.8	296.2	296.1	296.2
22°	298.0	296.6	295.8	295.2	295.0	295.0



TEST NUMBER: P601023
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	296.9	295.5	294.6	294.1	293.9	293.9
23°	295.9	294.5	293.5	293.0	292.7	292.8
23.5°	294.8	293.4	292.4	291.8	291.6	291.6
24°	293.6	292.2	291.2	290.6	290.4	290.5
24.5°	292.4	291.0	290.0	289.5	289.3	289.3
25°	291.4	289.8	288.7	288.2	288.0	288.1
25.5°	290.3	288.6	287.6	287.0	286.7	286.7
26°	289.0	287.3	286.4	285.7	285.4	285.5
26.5°	287.9	286.1	285.2	284.4	284.3	284.3
27°	286.6	284.8	283.7	283.1	282.8	282.9
27.5°	285.2	283.5	282.4	281.7	281.5	281.7
28°	284.0	282.2	281.1	280.4	280.3	280.4
28.5°	282.6	280.9	279.7	279.0	278.8	279.0
29°	281.3	279.5	278.4	277.7	277.2	277.4
29.5°	280.1	278.0	276.6	276.3	275.8	276.2
30°	278.6	276.6	275.5	274.9	274.5	274.6
30.5°	277.2	275.2	273.8	273.5	273.1	273.3
31°	275.8	273.8	272.7	272.0	271.7	271.9
31.5°	274.4	272.4	271.2	270.5	270.4	270.5
32°	272.9	271.0	269.8	269.1	268.9	269.0
32.5°	271.7	269.5	268.3	267.4	267.4	267.5
33°	270.1	268.0	266.7	266.1	265.6	265.9
33.5°	268.6	266.4	265.1	264.4	264.1	264.3
34°	267.0	264.8	263.5	262.8	262.5	262.7
34.5°	265.6	263.2	261.9	261.2	260.9	261.2
35°	263.9	261.7	260.3	259.5	259.4	259.5
35.5°	262.4	260.0	258.8	257.9	257.7	258.0
36°	260.8	258.4	257.2	256.2	256.0	256.3
36.5°	259.1	256.7	255.4	254.5	254.4	254.6
37°	257.6	255.1	253.7	252.9	252.8	252.9
37.5°	255.8	253.3	252.0	251.3	251.1	251.1
38°	254.3	251.6	250.3	249.6	249.3	249.5
38.5°	252.4	250.0	248.6	247.8	247.6	247.7
39°	250.9	248.2	246.8	246.0	245.8	246.1
39.5°	249.1	246.4	245.2	244.3	244.1	244.4
40°	247.4	244.6	243.4	242.5	242.4	242.6
40.5°	245.5	242.9	241.6	240.8	240.6	240.8
41°	243.9	241.1	239.9	239.0	238.8	239.0
41.5°	242.1	239.3	238.0	237.2	237.0	237.2
42°	240.3	237.6	236.4	235.5	235.3	235.5
42.5°	238.5	235.9	234.6	233.7	233.3	233.7
43°	236.7	234.1	232.7	231.9	231.8	231.9
43.5°	235.1	232.2	230.9	230.0	229.8	230.1
44°	233.2	230.4	228.9	228.1	228.0	228.3
44.5°	231.4	228.5	227.1	226.3	226.1	226.3



TEST NUMBER: P601023
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	229.7	226.6	225.3	224.5	224.2	224.5
45.5°	227.8	224.8	223.4	222.6	222.4	222.8
46°	226.0	223.0	221.6	220.6	220.5	220.8
46.5°	224.1	221.0	219.7	218.9	218.6	218.9
47°	222.3	219.1	217.7	217.0	216.6	216.9
47.5°	220.3	217.2	215.8	215.0	214.8	215.2
48°	218.5	215.3	214.0	213.1	212.8	213.2
48.5°	216.5	213.5	212.0	211.2	211.0	211.3
49°	214.8	211.5	210.0	209.3	209.0	209.4
49.5°	212.8	209.5	208.1	207.3	207.0	207.4
50°	210.9	207.6	206.2	205.4	205.1	205.5
50.5°	209.0	205.6	204.3	203.4	203.2	203.5
51°	207.0	203.7	202.4	201.6	201.2	201.6
51.5°	205.1	201.8	200.6	199.7	199.4	199.8
52°	203.2	200.0	198.6	197.7	197.4	197.9
52.5°	201.1	198.0	196.6	195.8	195.5	195.9
53°	199.3	196.1	194.7	193.8	193.6	194.0
53.5°	197.4	194.1	192.6	191.8	191.7	192.0
54°	195.6	192.2	190.8	189.9	189.6	190.0
54.5°	193.5	190.2	188.8	188.0	187.6	187.9
55°	191.5	188.3	186.8	186.0	185.6	186.1
55.5°	189.5	186.2	184.8	184.0	183.6	184.0
56°	187.6	184.4	183.0	182.0	181.6	182.0
56.5°	185.7	182.3	180.9	179.9	179.6	180.1
57°	183.6	180.2	178.8	177.9	177.7	178.1
57.5°	181.5	178.2	176.7	175.9	175.7	176.0
58°	179.5	176.3	174.8	174.0	173.5	174.2
58.5°	177.6	174.3	172.9	172.0	171.6	172.1
59°	175.5	172.2	170.8	169.9	169.7	170.1
59.5°	173.6	170.2	168.8	167.9	167.7	168.1
60°	171.5	168.3	166.8	166.0	165.8	166.1
60.5°	169.4	166.2	165.0	164.1	163.7	164.2
61°	167.5	164.5	163.0	162.1	161.8	162.3
61.5°	165.5	162.4	161.0	160.0	159.7	160.3
62°	163.7	160.4	158.9	158.0	157.8	158.3
62.5°	161.8	158.5	156.9	156.0	155.7	156.3
63°	159.7	156.5	154.8	154.0	153.8	154.3
63.5°	157.7	154.5	152.9	152.0	151.7	152.3
64°	155.7	152.4	150.8	150.0	149.7	150.2
64.5°	153.7	150.4	148.8	147.9	147.7	148.3
65°	151.7	148.4	146.8	146.0	145.8	146.2
65.5°	149.6	146.4	144.8	144.0	143.7	144.3
66°	147.7	144.4	142.9	142.1	141.7	142.3
66.5°	145.7	142.4	140.9	140.0	139.9	140.3
67°	143.7	140.5	139.0	138.1	137.9	138.4



TEST NUMBER: P601023
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	141.9	138.5	137.0	136.1	135.9	136.4
68°	139.8	136.5	135.0	134.2	134.0	134.4
68.5°	137.9	134.6	133.0	132.2	132.0	132.6
69°	135.9	132.6	131.1	130.3	130.2	130.6
69.5°	134.0	130.8	129.3	128.4	128.3	128.8
70°	132.0	128.9	127.3	126.5	126.4	126.9
70.5°	130.1	127.1	125.5	124.6	124.5	125.0
71°	128.4	125.1	123.6	122.7	122.6	123.2
71.5°	126.4	123.3	121.7	120.8	120.7	121.2
72°	124.5	121.4	119.8	118.9	118.9	119.4
72.5°	122.6	119.5	118.0	117.1	117.0	117.6
73°	120.7	117.7	116.1	115.4	115.2	115.7
73.5°	118.9	115.9	114.4	113.5	113.4	113.9
74°	117.1	114.1	112.5	111.7	111.6	112.1
74.5°	115.3	112.4	110.9	109.9	109.9	110.3
75°	113.3	110.5	109.0	108.1	108.0	108.5
75.5°	111.6	108.8	107.4	106.4	106.3	106.8
76°	109.8	107.0	105.5	104.6	104.4	105.1
76.5°	108.0	105.3	103.7	102.8	102.7	103.3
77°	106.2	103.5	102.1	101.1	101.0	101.7
77.5°	104.6	101.8	100.3	99.5	99.4	100.0
78°	102.8	100.1	98.6	97.8	97.7	98.2
78.5°	101.0	98.4	96.9	96.1	96.0	96.6
79°	99.3	96.7	95.3	94.6	94.6	95.0
79.5°	97.7	95.2	93.8	93.1	93.0	93.5
80°	95.9	93.7	92.3	91.4	91.3	91.8
80.5°	94.4	92.1	90.7	89.8	89.8	90.3
81°	92.9	90.5	89.1	88.2	88.1	88.8
81.5°	91.3	88.9	87.5	86.6	86.7	87.1
82°	89.6	87.3	85.9	85.1	85.1	85.6
82.5°	87.9	85.7	84.5	83.6	83.5	84.2
83°	86.5	84.2	82.9	82.1	82.1	82.6
83.5°	85.0	82.7	81.4	80.5	80.5	81.1
84°	83.4	81.2	79.9	79.2	79.1	79.6
84.5°	81.8	79.8	78.4	77.7	77.7	78.2
85°	80.4	78.4	77.1	76.4	76.3	76.7
85.5°	78.9	77.0	75.6	74.8	74.8	75.4
86°	77.5	75.6	74.2	73.4	73.4	74.0
86.5°	76.0	74.2	72.8	72.1	72.1	72.6
87°	74.6	72.8	71.5	70.8	70.8	71.3
87.5°	73.0	71.4	70.2	69.4	69.4	70.0
88°	71.8	70.2	68.9	68.1	68.1	68.7
88.5°	70.3	68.9	67.5	66.8	66.8	67.5
89°	69.0	67.5	66.2	65.6	65.6	66.1
89.5°	67.7	66.2	64.9	64.3	64.3	64.9



TEST NUMBER: P601023
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	66.3	64.9	63.8	63.1	63.1	63.7
90.5°	65.0	63.7	62.6	61.9	61.9	62.4
91°	63.8	62.5	61.4	60.7	60.7	61.2
91.5°	62.6	61.3	60.2	59.6	59.6	60.1
92°	61.2	60.1	59.1	58.5	58.6	59.1
92.5°	60.0	59.1	58.0	57.3	57.5	57.9
93°	58.9	58.0	56.9	56.2	56.3	56.9
93.5°	58.0	56.9	55.7	55.1	55.2	55.8
94°	56.7	55.8	54.7	54.1	54.3	54.7
94.5°	55.4	54.7	53.7	53.2	53.1	53.7
95°	54.4	53.7	52.7	52.1	52.1	52.7
95.5°	53.6	52.6	51.7	51.1	51.0	51.6
96°	52.4	51.6	50.6	50.0	50.1	50.6
96.5°	51.3	50.6	49.7	49.1	49.1	49.8
97°	50.3	49.6	48.8	48.1	48.1	48.8
97.5°	49.2	48.7	47.9	47.2	47.2	47.8
98°	48.3	47.8	47.0	46.3	46.4	47.0
98.5°	47.4	46.9	46.1	45.4	45.4	46.1
99°	46.4	45.9	45.1	44.6	44.6	45.2
99.5°	45.5	45.1	44.4	43.7	43.7	44.4
100°	44.6	44.2	43.5	42.9	42.9	43.6
100.5°	43.7	43.4	42.6	42.1	42.1	42.8
101°	43.0	42.6	41.8	41.3	41.4	41.9
101.5°	41.8	41.8	41.1	40.6	40.6	41.2
102°	41.4	41.1	40.4	39.9	39.8	40.5
102.5°	40.5	40.2	39.6	39.0	39.2	39.6
103°	39.7	39.4	38.9	38.4	38.5	39.0
103.5°	38.8	38.7	38.2	37.8	37.6	38.3
104°	38.2	38.0	37.5	37.2	37.2	37.6
104.5°	37.2	37.3	36.5	36.5	36.5	37.0
105°	36.7	36.7	36.3	35.9	36.0	36.4
105.5°	36.1	36.1	35.7	35.4	35.3	35.8
106°	35.6	35.4	35.0	34.8	34.8	35.2
106.5°	34.8	34.7	34.5	34.3	34.2	34.5
107°	34.4	34.2	33.9	33.7	33.6	34.0
107.5°	33.7	33.7	33.3	33.2	33.1	33.5
108°	33.1	33.1	32.9	32.7	32.7	33.0
108.5°	32.5	32.5	32.3	32.2	32.1	32.5
109°	31.9	32.0	31.8	31.7	31.7	32.0
109.5°	31.4	31.5	31.3	31.3	31.2	31.5
110°	30.8	31.0	30.9	30.8	30.7	31.1
110.5°	30.4	30.5	30.4	30.4	30.3	30.7
111°	29.8	30.1	30.0	30.0	29.9	30.2
111.5°	29.4	29.6	29.5	29.6	29.5	29.8
112°	28.9	29.1	29.2	29.2	29.1	29.4



TEST NUMBER: P601023
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	28.4	28.8	28.8	28.8	28.7	29.1
113°	28.2	28.4	28.4	28.4	28.4	28.7
113.5°	27.6	28.0	28.1	28.1	28.0	28.3
114°	27.3	27.6	27.7	27.8	27.7	28.0
114.5°	27.1	27.3	27.4	27.5	27.3	27.7
115°	26.5	27.0	27.0	27.1	27.0	27.3
115.5°	26.1	26.8	26.8	26.8	26.7	26.9
116°	25.9	26.4	26.4	26.6	26.3	26.6
116.5°	25.4	26.1	26.1	26.2	26.0	26.3
117°	25.1	25.7	25.9	25.9	25.6	26.0
117.5°	24.9	25.5	25.6	25.7	25.4	25.8
118°	24.6	25.2	25.3	25.4	25.1	25.5
118.5°	24.3	24.9	25.0	25.1	24.8	25.2
119°	24.0	24.6	24.8	24.8	24.5	24.9
119.5°	23.8	24.5	24.5	24.6	24.3	24.7
120°	23.7	24.1	24.3	24.4	24.0	24.5
120.5°	23.2	24.1	24.1	24.1	24.0	24.2
121°	23.0	23.9	24.1	24.1	23.8	24.1
121.5°	23.0	23.7	23.8	23.8	23.6	24.0
122°	22.9	23.6	23.7	23.6	23.5	24.0
122.5°	22.9	23.4	23.6	23.5	23.2	23.8
123°	22.5	23.3	23.4	23.4	23.1	23.8
123.5°	22.3	23.2	23.3	23.2	23.0	23.6
124°	22.1	23.0	23.2	23.0	22.9	23.5
124.5°	22.0	23.0	23.1	22.8	22.9	23.4
125°	21.9	22.8	22.9	22.7	22.7	23.4
125.5°	22.0	22.7	22.9	22.6	22.5	23.3
126°	21.9	22.7	22.8	22.5	22.5	23.1
126.5°	21.9	22.5	22.7	22.4	22.5	23.1
127°	21.9	22.5	22.6	22.4	22.3	23.0
127.5°	21.9	22.4	22.6	22.3	22.4	22.8
128°	21.9	22.4	22.5	22.2	22.3	22.8
128.5°	21.9	22.3	22.5	22.3	22.2	22.8
129°	21.9	22.3	22.5	22.2	22.2	22.8
129.5°	21.9	22.3	22.5	22.2	22.2	22.8
130°	21.9	22.3	22.5	22.2	22.2	22.8
130.5°	21.9	22.3	22.5	22.1	22.2	22.8
131°	21.9	22.3	22.4	22.1	22.2	22.8
131.5°	21.9	22.3	22.4	22.1	22.2	22.7
132°	21.9	22.3	22.4	22.1	22.2	22.7
132.5°	22.0	22.3	22.4	22.1	22.2	22.7
133°	22.0	22.3	22.4	22.1	22.2	22.7
133.5°	22.1	22.3	22.4	22.1	22.2	22.7
134°	22.2	22.3	22.4	22.1	22.2	22.7
134.5°	22.3	22.3	22.4	22.1	22.2	22.7



TEST NUMBER: P601023
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	22.3	22.3	22.4	22.1	22.2	22.7
135.5°	22.4	22.3	22.4	22.1	22.2	22.8
136°	22.4	22.3	22.4	22.2	22.2	22.7
136.5°	22.5	22.3	22.4	22.2	22.2	22.7
137°	22.6	22.4	22.5	22.3	22.2	22.9
137.5°	22.7	22.6	22.5	22.4	22.2	22.9
138°	22.8	22.9	22.5	22.4	22.3	22.9
138.5°	22.9	22.9	22.8	22.7	22.7	22.9
139°	23.0	22.9	22.8	22.9	22.9	23.1
139.5°	23.2	22.9	22.9	22.9	22.9	23.0
140°	23.2	23.1	22.9	22.9	22.9	23.2
140.5°	23.2	23.0	23.1	23.0	23.0	23.3
141°	23.2	23.2	23.0	23.0	23.1	23.8
141.5°	23.3	23.4	23.2	23.1	23.1	23.9
142°	23.4	23.8	23.4	23.2	23.4	23.9
142.5°	23.4	23.9	23.7	23.4	23.8	24.0
143°	23.6	23.9	23.8	23.8	23.9	24.2
143.5°	23.6	24.0	23.8	23.9	23.9	24.4
144°	23.8	24.2	24.0	23.9	24.0	24.8
144.5°	24.0	24.3	24.2	23.9	24.1	24.9
145°	24.0	24.8	24.3	24.1	24.4	24.9
145.5°	24.2	25.0	24.3	24.3	24.6	25.1
146°	24.3	25.0	24.6	24.4	25.0	25.2
146.5°	24.5	25.1	24.9	24.7	25.0	25.3
147°	24.7	25.2	25.0	24.9	25.0	25.5
147.5°	24.9	25.2	25.0	25.0	25.1	25.9
148°	25.0	25.4	25.0	25.0	25.2	26.0
148.5°	25.0	25.4	25.1	25.0	25.4	26.2
149°	25.1	25.6	25.2	25.2	25.4	26.2
149.5°	25.0	25.8	25.4	25.3	25.7	26.2
150°	25.0	26.2	25.4	25.4	25.9	26.3
150.5°	25.0	26.1	25.5	25.5	26.1	26.3
151°	25.0	26.2	25.8	25.7	26.1	26.4
151.5°	25.0	26.1	25.9	25.7	26.1	26.4
152°	25.1	26.3	25.9	25.7	26.1	26.4
152.5°	25.1	26.3	25.9	25.7	26.2	26.4
153°	25.0	26.3	25.9	25.7	26.1	26.4
153.5°	24.9	26.1	25.9	25.7	26.1	26.4
154°	24.9	26.1	25.9	25.7	26.1	26.4
154.5°	24.6	25.9	25.9	25.7	26.1	26.4
155°	24.4	25.8	25.8	25.7	26.1	26.4
155.5°	24.3	25.7	25.7	25.7	26.1	26.4
156°	24.2	25.5	25.6	25.7	26.1	26.4
156.5°	24.1	25.4	25.6	25.7	25.9	26.4
157°	24.0	25.3	25.5	25.6	25.8	26.2



TEST NUMBER: P601023
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	23.9	25.2	25.5	25.6	25.8	26.1
158°	23.9	25.1	25.4	25.4	25.7	26.1
158.5°	23.8	25.0	25.3	25.4	25.6	26.0
159°	23.6	24.9	25.2	25.2	25.5	25.8
159.5°	23.5	24.8	25.1	25.2	25.5	25.8
160°	23.3	24.7	25.0	25.1	25.3	25.8
160.5°	23.2	24.7	25.0	25.0	25.3	25.6
161°	23.0	24.5	24.8	24.9	25.2	25.5
161.5°	23.0	24.3	24.7	24.8	25.1	25.3
162°	22.9	24.2	24.5	24.7	25.0	25.1
162.5°	22.9	24.0	24.5	24.6	24.9	24.9
163°	22.9	23.9	24.3	24.5	24.8	24.7
163.5°	22.8	23.8	24.2	24.4	24.7	24.4
164°	22.7	23.7	24.0	24.3	24.6	24.2
164.5°	22.5	23.5	24.1	24.2	24.5	24.1
165°	22.4	23.4	23.9	24.2	24.5	24.0
165.5°	22.3	23.3	23.8	24.0	24.3	23.9
166°	22.2	23.2	23.6	24.1	24.1	23.7
166.5°	22.1	23.1	23.5	24.0	24.0	23.5
167°	22.0	22.9	23.3	23.9	23.8	23.4
167.5°	21.8	22.7	23.1	23.6	23.5	23.2
168°	21.6	22.5	22.8	23.5	23.3	23.0
168.5°	21.7	22.4	22.7	23.2	22.9	22.8
169°	21.7	22.3	22.5	22.8	22.7	22.7
169.5°	21.3	22.1	22.3	22.4	22.4	22.6
170°	21.1	21.9	22.1	22.0	22.3	22.4
170.5°	20.9	21.6	21.8	21.6	22.0	22.2
171°	20.7	21.5	21.6	21.3	21.8	22.0
171.5°	20.6	21.2	21.2	20.8	21.5	21.7
172°	20.5	20.9	20.9	20.4	21.1	21.5
172.5°	20.4	20.5	20.3	20.0	20.7	21.3
173°	19.9	20.1	19.8	19.6	20.2	20.9
173.5°	19.8	19.8	19.5	19.3	19.8	20.5
174°	19.9	19.8	19.5	19.3	19.7	20.5
174.5°	20.0	21.5	21.1	20.9	21.2	21.8
175°	21.6	22.7	22.3	22.3	22.4	22.9
175.5°	23.4	23.0	23.0	23.0	23.0	23.4
176°	24.3	23.6	23.5	23.4	23.6	23.8
176.5°	24.8	24.1	24.0	24.0	24.0	24.1
177°	25.2	24.6	24.6	24.5	24.7	24.8
177.5°	25.5	24.9	24.9	25.0	24.9	25.0
178°	25.5	25.0	25.0	25.1	25.2	25.2
178.5°	25.5	25.2	25.2	25.2	25.4	25.3
179°	25.5	25.3	25.2	25.3	25.5	25.5
179.5°	25.5	25.5	25.4	25.4	25.6	25.7



TEST NUMBER: P601023
CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	25.9	25.9	25.9	25.9	25.9	25.9

(END OF REPORT)