

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: P601024

Luminaire Tested: FM119S1EWHR_4000K

Issue Date: 3/13/2023

Test Information

Test Method: LM-79-2019
Report Number: P601024
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_4000K
Description: FM119S1EWHR at 4000K
Light Source: -
Ballast/Driver: -

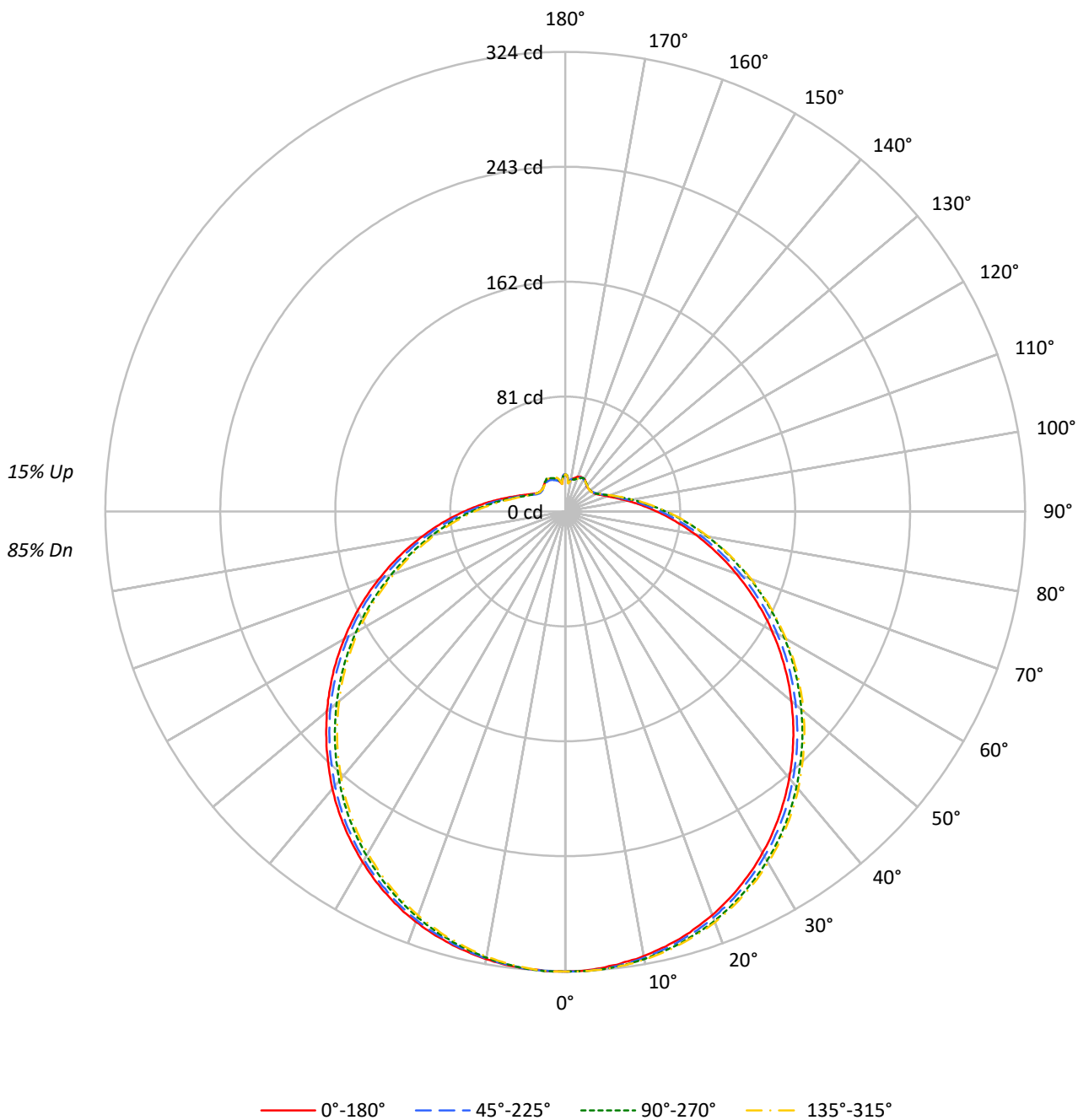
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1345.9 lumens
Efficiency: N/A
Efficacy: 93.5 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

TEST NUMBER: P601024
CATALOG NUMBER: FM119S1EWHR_4000K

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°	3812	3812	3812	3812
5°	3680	3692	3691	3689
10°	3554	3578	3578	3566
15°	3436	3469	3471	3448
20°	3318	3365	3371	3334
25°	3199	3257	3267	3219
30°	3079	3151	3163	3102
35°	2961	3044	3056	2986
40°	2839	2931	2951	2863
45°	2718	2821	2842	2744
50°	2598	2713	2739	2624
55°	2480	2609	2630	2509
60°	2360	2503	2526	2391
65°	2243	2401	2425	2277
70°	2132	2301	2323	2167
75°	2033	2214	2233	2070
80°	1960	2146	2163	2001
85°	1923	2114	2129	1965

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 2848 cd/sqm



TEST NUMBER: P601024
 CATALOG NUMBER: FM119S1EWHR_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.7	2.3
10°-20°	88.6	6.6
20°-30°	136.0	10.1
30°-40°	167.3	12.4
40°-50°	179.6	13.3
50°-60°	173.8	12.9
60°-70°	152.7	11.3
70°-80°	122.1	9.1
80°-90°	89.7	6.7
90°-100°	61.5	4.6
100°-110°	40.8	3.0
110°-120°	28.0	2.1
120°-130°	21.0	1.6
130°-140°	17.7	1.3
140°-150°	15.6	1.2
150°-160°	11.9	0.9
160°-170°	6.7	0.5
170°-180°	2.1	0.2
0°-30°	255.4	19.0
0°-40°	422.6	31.4
0°-60°	776.0	57.7
0°-90°	1140.5	84.7
90°-120°	130.3	9.7
90°-150°	184.7	13.7
90°-180°	205.0	15.2
0°-180°	1345.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	324	324	324	324	324	
5°	323	324	324	323	323	31
15°	312	315	315	313	312	88
25°	292	297	298	293	292	134
35°	263	270	271	265	263	164
45°	227	236	238	229	227	175
55°	188	198	200	190	188	168
65°	148	158	160	150	148	147
75°	110	120	121	112	110	116
85°	78	85	86	79	78	67
90°	64	71	71	66	64	35
95°	53	58	58	54	53	42
105°	37	40	40	37	37	39
115°	28	29	29	27	28	28
125°	24	23	23	23	24	21
135°	23	23	23	22	23	18
145°	25	26	25	25	25	16
155°	27	26	25	26	27	12
165°	24	23	23	24	24	7
175°	23	22	21	23	23	2
180°	26	26	26	26	26	



TEST NUMBER: P601024
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	324.4	324.4	324.4	324.4	324.4	324.4	324.4	324.4	324.4	324.4	324.4
0.5°	324.3	324.4	324.4	324.5	324.4	324.4	324.4	324.4	324.4	324.4	324.4
1°	324.2	324.3	324.4	324.5	324.4	324.4	324.4	324.4	324.4	324.2	324.4
1.5°	324.2	324.3	324.4	324.4	324.3	324.4	324.4	324.4	324.4	324.2	324.2
2°	324.1	324.2	324.4	324.4	324.3	324.4	324.4	324.3	324.4	324.0	324.2
2.5°	323.9	324.0	324.3	324.5	324.2	324.4	324.3	324.4	324.4	323.9	324.1
3°	323.6	323.8	324.2	324.4	324.2	324.4	324.4	324.2	323.8	323.9	324.0
3.5°	323.5	323.6	323.9	324.3	324.1	324.2	324.1	324.2	323.7	323.7	323.9
4°	323.2	323.4	323.8	324.0	323.9	324.0	324.1	324.1	323.6	323.6	323.8
4.5°	323.0	323.1	323.5	324.0	323.9	324.0	324.0	323.9	323.5	323.5	323.6
5°	322.6	322.9	323.3	323.9	323.7	323.9	323.7	323.9	323.6	323.4	323.5
5.5°	322.0	322.6	323.2	323.5	323.4	323.8	323.7	323.9	323.5	323.2	323.2
6°	321.8	322.3	322.8	323.1	323.2	323.5	323.4	323.5	323.0	322.8	322.8
6.5°	321.6	321.9	322.6	322.8	322.9	323.2	323.1	323.1	322.7	322.7	322.6
7°	321.1	321.5	322.1	322.5	322.6	322.8	322.8	322.9	322.5	322.4	322.3
7.5°	320.4	321.1	321.7	322.2	322.3	322.7	322.7	322.7	322.3	322.1	321.9
8°	320.2	320.7	321.4	321.8	322.0	322.3	322.2	322.3	322.1	321.7	321.6
8.5°	319.7	320.2	320.9	321.4	321.6	321.9	322.0	322.0	321.6	321.4	321.4
9°	319.5	319.7	320.5	320.9	321.2	321.5	321.6	321.6	321.4	321.0	320.7
9.5°	319.0	319.2	320.0	320.6	320.8	321.1	321.2	321.3	320.8	320.6	320.4
10°	318.3	318.7	319.5	320.2	320.5	320.7	320.8	320.8	320.5	320.2	319.9
10.5°	317.7	318.2	319.0	319.7	319.9	320.4	320.5	320.4	320.0	319.7	319.6
11°	317.2	317.7	318.5	319.1	319.4	319.8	320.0	320.1	319.5	319.3	319.0
11.5°	316.4	317.1	317.9	318.5	319.0	319.3	319.5	319.7	319.1	318.8	318.5
12°	315.8	316.4	317.3	317.9	318.5	318.9	319.0	319.2	318.7	318.3	318.0
12.5°	315.2	315.8	316.7	317.3	317.9	318.3	318.5	318.5	318.0	317.7	317.4
13°	314.8	315.1	316.1	316.8	317.3	317.8	318.0	318.0	317.5	317.2	316.9
13.5°	313.8	314.5	315.4	316.1	316.7	317.2	317.5	317.5	316.9	316.7	316.3
14°	313.1	313.7	314.8	315.5	316.1	316.7	316.8	316.9	316.4	316.0	315.7
14.5°	312.5	313.0	314.0	314.8	315.5	316.2	316.2	316.3	315.9	315.5	315.0
15°	311.9	312.2	313.3	314.1	314.9	315.4	315.6	315.7	315.1	314.8	314.3
15.5°	311.0	311.5	312.5	313.3	314.2	314.9	315.0	315.1	314.6	314.1	313.6
16°	310.2	310.9	311.7	312.5	313.4	314.0	314.3	314.4	313.7	313.4	312.8
16.5°	309.5	310.0	311.1	311.8	312.6	313.3	313.6	313.7	313.2	312.6	312.1
17°	308.4	309.2	310.2	311.3	311.9	312.7	312.9	312.9	312.7	312.0	311.4
17.5°	307.5	308.3	309.5	310.4	311.2	311.8	312.2	312.2	311.8	311.3	310.6
18°	306.6	307.4	308.5	309.5	310.6	311.0	311.4	311.4	311.0	310.4	310.0
18.5°	305.6	306.5	307.6	308.7	309.7	310.5	310.7	310.6	310.3	309.8	309.1
19°	304.7	305.5	306.8	307.7	308.9	309.5	309.9	310.0	309.5	308.9	308.2
19.5°	303.8	304.6	305.8	306.9	308.1	308.8	309.1	309.2	308.3	308.0	307.4
20°	302.9	303.6	304.8	305.9	307.2	307.8	308.3	308.3	307.8	307.2	306.4
20.5°	301.9	302.6	303.8	304.9	306.2	306.9	307.3	307.4	306.9	306.2	305.6
21°	300.8	301.6	302.9	303.9	305.3	306.1	306.4	306.5	305.9	305.5	304.7
21.5°	299.7	300.4	301.3	303.0	304.3	305.1	305.5	305.7	305.0	304.5	303.7
22°	298.5	299.3	300.8	302.0	303.3	303.9	304.5	304.6	304.3	303.4	302.6



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 CATALOG NUMBER: FM119S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	297.4	298.3	299.6	300.9	302.3	303.1	303.5	303.6	303.1	302.3	301.6
23°	296.3	297.2	298.6	299.8	301.3	302.0	302.5	302.6	301.8	301.3	300.5
23.5°	295.1	296.0	297.5	298.7	300.1	301.0	301.5	301.5	301.2	300.3	299.5
24°	294.0	294.8	296.3	297.6	299.1	299.9	300.4	300.6	300.0	299.3	298.4
24.5°	292.8	293.6	295.1	296.5	298.0	298.8	299.2	299.4	298.8	298.1	297.1
25°	291.5	292.6	293.9	295.2	296.8	297.5	298.2	298.3	297.7	297.0	296.1
25.5°	290.2	291.3	292.7	294.0	295.6	296.6	297.1	297.1	296.8	295.8	294.7
26°	288.9	289.8	291.4	293.0	294.5	295.5	295.9	295.9	295.6	294.6	293.8
26.5°	287.7	288.5	290.1	291.6	293.2	294.4	294.8	294.8	294.2	293.5	292.5
27°	286.3	287.3	289.0	290.3	292.2	293.1	293.5	293.6	293.2	292.3	291.3
27.5°	285.1	285.9	287.6	289.1	290.9	291.9	292.4	292.4	292.0	291.1	290.1
28°	283.8	284.6	286.3	287.9	289.6	290.5	291.1	291.3	290.6	289.7	288.8
28.5°	282.3	283.2	284.9	286.4	288.3	289.3	289.9	290.0	289.4	288.6	287.5
29°	280.8	281.8	283.6	285.2	287.1	288.1	288.5	288.7	288.1	287.3	286.2
29.5°	279.6	280.5	282.2	283.8	285.7	286.8	287.3	287.4	286.7	286.0	284.9
30°	277.9	279.3	280.8	282.4	284.4	285.4	285.9	286.0	285.5	284.5	283.5
30.5°	276.5	277.7	279.5	281.1	283.0	284.0	284.6	284.7	284.1	283.2	282.1
31°	275.2	276.2	277.9	279.5	281.6	282.7	283.2	283.3	282.8	281.9	280.6
31.5°	273.7	275.0	276.6	278.1	280.2	281.3	281.7	282.0	281.3	280.4	279.3
32°	272.3	273.5	275.3	276.7	278.8	280.0	280.4	280.5	279.9	279.1	277.8
32.5°	270.7	271.9	273.7	275.3	277.3	278.4	279.0	279.2	278.6	277.7	276.4
33°	269.1	270.4	272.0	274.1	275.9	276.9	277.6	277.7	277.2	276.3	274.9
33.5°	267.5	268.8	270.7	272.3	274.5	275.4	276.1	276.2	275.6	274.7	273.4
34°	265.9	267.1	269.0	270.9	273.1	274.1	274.7	274.9	274.4	273.3	271.9
34.5°	264.3	265.5	267.4	269.3	271.4	272.6	273.2	273.5	272.9	271.9	270.4
35°	262.7	263.9	265.9	267.6	270.0	271.2	271.6	271.9	271.1	270.4	268.9
35.5°	261.1	262.3	264.3	266.1	268.5	269.6	270.1	270.3	269.8	268.8	267.3
36°	259.4	260.6	262.7	264.4	266.8	268.0	268.6	268.8	268.1	267.2	265.7
36.5°	257.6	259.0	261.0	262.8	265.2	266.4	267.0	267.1	266.6	265.7	264.2
37°	255.9	257.2	259.3	261.2	263.5	265.0	265.4	265.7	265.1	264.0	262.4
37.5°	254.2	255.6	257.6	259.6	261.9	263.1	263.7	264.0	263.4	262.3	260.9
38°	252.5	253.8	256.0	257.9	260.3	261.4	262.0	262.3	261.9	260.7	259.1
38.5°	250.7	252.1	254.2	256.2	258.6	259.9	260.4	260.8	260.3	259.0	257.5
39°	249.1	250.4	252.5	254.5	256.9	258.0	258.8	259.0	258.5	257.3	255.8
39.5°	247.3	248.6	250.8	252.8	255.4	256.5	257.2	257.3	256.9	255.8	254.1
40°	245.5	246.9	249.0	251.0	253.5	254.7	255.4	255.6	255.2	254.0	252.4
40.5°	243.7	245.1	247.3	249.3	251.9	252.9	253.6	253.9	253.5	252.3	250.7
41°	241.9	243.3	245.5	247.5	250.0	251.3	252.0	252.1	251.7	250.6	248.8
41.5°	240.1	241.4	243.8	245.7	248.4	249.6	250.1	250.4	249.9	248.8	247.0
42°	238.4	239.6	241.8	243.9	246.5	247.9	248.4	248.7	248.2	247.0	245.2
42.5°	236.5	238.0	240.1	242.1	244.7	246.0	246.7	246.9	246.3	245.2	243.4
43°	234.7	236.1	238.4	240.4	243.0	244.2	244.8	245.1	244.6	243.5	241.6
43.5°	232.9	234.4	236.6	238.7	241.2	242.4	243.1	243.4	242.9	241.7	239.9
44°	231.0	232.6	234.8	236.9	239.3	240.7	241.2	241.6	241.0	239.8	238.2
44.5°	229.0	230.6	232.9	235.1	237.7	238.8	239.3	239.7	239.2	238.2	236.5



TEST NUMBER: P601024
 CATALOG NUMBER: FM119S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	227.2	228.8	231.0	233.2	235.8	237.2	237.7	238.1	237.6	236.4	234.6
45.5°	225.5	226.8	229.2	231.4	234.1	235.3	236.0	236.2	235.8	234.7	232.9
46°	223.5	225.0	227.3	229.5	232.2	233.3	234.1	234.4	233.8	232.8	230.9
46.5°	221.5	223.1	225.6	227.6	230.4	231.7	232.3	232.6	232.0	231.1	229.1
47°	219.6	221.2	223.6	225.7	228.6	229.7	230.4	230.7	230.3	229.2	227.2
47.5°	217.8	219.2	221.6	223.8	226.7	227.9	228.5	228.9	228.4	227.2	225.3
48°	215.8	217.4	219.7	221.9	224.9	225.9	226.7	227.0	226.5	225.4	223.6
48.5°	213.8	215.5	217.7	220.1	222.9	224.1	224.8	225.1	224.6	223.5	221.6
49°	211.9	213.5	215.8	218.1	221.0	222.3	222.8	223.3	222.6	221.6	219.7
49.5°	209.9	211.5	213.9	216.3	219.1	220.4	221.0	221.4	220.9	219.8	217.9
50°	208.0	209.6	212.0	214.3	217.2	218.4	219.2	219.5	219.3	218.0	215.8
50.5°	206.0	207.6	210.1	212.4	215.3	216.5	217.1	217.5	217.0	216.0	213.9
51°	204.1	205.7	208.1	210.4	213.4	214.6	215.2	215.6	215.2	214.1	212.0
51.5°	202.2	203.7	206.2	208.5	211.5	212.8	213.4	213.8	213.5	212.3	210.1
52°	200.3	201.9	204.3	206.6	209.6	210.7	211.4	211.8	211.3	210.3	208.2
52.5°	198.3	199.9	202.5	204.6	207.6	208.9	209.4	209.8	209.5	208.3	206.2
53°	196.4	198.0	200.5	202.9	205.7	206.9	207.5	207.8	207.5	206.4	204.3
53.5°	194.3	196.0	198.5	200.9	203.8	204.9	205.6	205.9	205.5	204.4	202.4
54°	192.3	194.0	196.5	198.9	202.0	203.0	203.6	203.8	203.7	202.5	200.2
54.5°	190.2	192.0	194.5	197.0	200.0	201.1	201.7	202.0	201.8	200.6	198.4
55°	188.3	189.9	192.5	195.1	198.1	199.2	199.8	200.1	199.7	198.7	196.5
55.5°	186.3	187.9	190.5	193.0	196.0	197.3	197.9	198.2	197.9	196.7	194.5
56°	184.2	186.0	188.5	190.9	194.1	195.1	195.7	196.1	195.9	194.7	192.5
56.5°	182.3	183.9	186.5	189.0	192.2	193.3	193.7	194.1	193.8	192.7	190.5
57°	180.3	181.9	184.5	187.0	190.2	191.2	191.8	192.1	191.9	190.8	188.6
57.5°	178.1	179.8	182.5	185.2	188.2	189.4	189.7	190.1	189.9	188.8	186.4
58°	176.3	178.0	180.6	183.0	186.2	187.3	187.8	188.1	187.8	186.9	184.5
58.5°	174.2	175.9	178.5	181.0	184.2	185.3	185.7	186.1	185.9	184.7	182.3
59°	172.1	174.0	176.6	179.1	182.3	183.2	183.7	184.2	183.9	182.9	180.4
59.5°	170.1	171.9	174.4	177.1	180.3	181.4	181.7	182.1	181.9	180.8	178.3
60°	168.1	169.9	172.5	175.1	178.3	179.3	179.7	180.1	179.9	178.8	176.5
60.5°	166.2	167.9	170.5	173.0	176.3	177.2	177.6	178.0	177.8	176.7	174.4
61°	164.3	166.0	168.5	171.1	174.2	175.2	175.6	176.0	175.8	174.7	172.4
61.5°	162.3	163.9	166.6	169.2	172.2	173.1	173.5	174.0	173.9	172.7	170.4
62°	160.2	161.9	164.6	167.3	170.3	171.2	171.5	172.0	171.8	170.7	168.4
62.5°	158.2	159.8	162.6	165.2	168.3	169.2	169.6	170.0	169.9	168.6	166.7
63°	156.2	157.8	160.5	163.2	166.4	167.2	167.5	167.9	167.9	166.8	164.4
63.5°	154.1	155.7	158.5	161.2	164.4	165.3	165.7	166.0	165.8	164.7	162.4
64°	152.0	153.7	156.5	159.2	162.4	163.3	163.6	164.1	164.0	162.7	160.4
64.5°	150.0	151.8	154.4	157.2	160.4	161.3	161.6	162.1	161.9	160.8	158.3
65°	148.0	149.7	152.4	155.2	158.4	159.3	159.5	160.0	160.0	158.8	156.3
65.5°	146.1	147.7	150.4	153.1	156.5	157.3	157.6	158.0	157.9	156.8	154.4
66°	144.0	145.6	148.3	151.1	154.5	155.3	155.5	155.9	155.9	154.6	152.3
66.5°	142.0	143.7	146.3	149.1	152.4	153.3	153.5	153.9	153.9	152.6	150.2
67°	140.1	141.6	144.4	147.2	150.4	151.3	151.5	152.0	151.8	150.7	148.3



TEST NUMBER: P601024
 CATALOG NUMBER: FM119S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	138.0	139.7	142.3	145.1	148.6	149.3	149.6	150.0	149.9	148.7	146.5
68°	136.1	137.7	140.5	143.1	146.5	147.3	147.6	148.0	147.9	146.7	144.2
68.5°	134.2	135.9	138.5	141.2	144.5	145.3	145.5	145.9	145.8	144.7	142.2
69°	132.2	133.8	136.5	139.2	142.5	143.3	143.6	143.9	143.8	142.6	140.3
69.5°	130.4	131.9	134.5	137.3	140.5	141.3	141.5	141.9	141.8	140.7	138.2
70°	128.4	130.1	132.6	135.4	138.6	139.3	139.6	140.0	139.9	138.6	136.2
70.5°	126.5	128.1	130.7	133.3	136.6	137.5	137.5	138.0	137.9	136.8	134.4
71°	124.7	126.2	128.8	131.6	134.7	135.3	135.6	136.0	135.9	134.8	132.4
71.5°	122.7	124.4	126.9	129.6	133.1	133.4	133.6	134.0	134.0	132.8	130.6
72°	120.9	122.4	125.0	127.7	131.0	131.5	131.7	132.0	132.0	130.9	128.4
72.5°	119.0	120.6	123.2	125.8	128.3	129.8	129.9	130.3	130.3	129.0	126.6
73°	117.1	118.7	121.3	123.9	126.8	127.8	127.9	128.3	128.3	127.1	124.8
73.5°	115.3	116.9	119.4	122.0	125.1	126.0	126.1	126.4	126.3	125.2	122.9
74°	113.4	115.0	117.5	120.3	123.3	124.1	124.2	124.6	124.4	123.2	120.9
74.5°	111.6	113.3	115.7	118.3	121.6	122.1	122.2	122.7	122.6	121.4	119.1
75°	109.8	111.4	113.9	116.5	119.6	120.4	120.4	120.8	120.6	119.4	117.2
75.5°	108.1	109.6	112.0	114.6	117.7	118.5	118.5	118.9	118.7	117.6	115.3
76°	106.4	107.8	110.2	112.9	115.9	116.6	116.7	117.0	116.9	115.8	113.3
76.5°	104.6	106.1	108.5	111.1	114.1	114.8	114.8	115.2	115.0	113.8	111.7
77°	102.9	104.4	106.6	109.2	112.4	113.0	113.1	113.4	113.3	112.0	109.7
77.5°	101.2	102.5	104.9	107.6	110.5	111.1	111.3	111.6	111.4	110.2	108.2
78°	99.4	100.8	103.3	105.7	108.6	109.4	109.5	109.7	109.6	108.4	106.2
78.5°	97.8	99.2	101.5	104.0	107.0	107.6	107.7	108.1	107.9	106.7	104.6
79°	96.1	97.5	99.9	102.3	105.2	105.8	106.0	106.2	106.1	104.7	102.7
79.5°	94.7	96.0	98.1	100.6	103.4	104.0	104.2	104.4	104.3	103.0	101.1
80°	92.9	94.4	96.5	98.9	101.7	102.3	102.4	102.8	102.5	101.3	99.4
80.5°	91.4	92.8	95.0	97.2	100.0	100.6	100.7	101.0	100.8	99.5	97.5
81°	89.8	91.2	93.4	95.7	98.3	99.0	99.1	99.4	99.2	97.8	95.8
81.5°	88.2	89.6	91.7	94.2	96.6	97.2	97.3	97.6	97.3	96.1	94.4
82°	86.7	88.0	90.2	92.4	95.1	95.5	95.7	95.9	95.7	94.6	92.7
82.5°	85.2	86.5	88.5	90.9	93.5	94.0	94.2	94.5	94.2	92.9	91.1
83°	83.6	85.0	87.0	89.2	91.8	92.5	92.6	92.8	92.5	91.3	89.4
83.5°	82.1	83.4	85.5	87.7	90.3	90.9	90.9	91.2	90.9	89.7	87.8
84°	80.6	82.0	83.9	86.1	88.6	89.2	89.3	89.5	89.2	88.0	86.2
84.5°	79.1	80.5	82.5	84.6	87.0	87.6	87.7	88.0	87.6	86.4	84.6
85°	77.7	79.0	80.9	83.1	85.4	86.0	86.1	86.4	86.0	84.8	82.9
85.5°	76.3	77.6	79.5	81.7	83.9	84.5	84.6	84.9	84.5	83.2	81.4
86°	74.9	76.2	78.0	80.1	82.4	82.9	83.0	83.3	82.9	81.7	79.9
86.5°	73.5	74.8	76.6	78.7	80.9	81.4	81.6	81.8	81.3	80.2	78.6
87°	72.2	73.4	75.1	77.3	79.3	80.0	80.0	80.3	79.9	78.6	76.9
87.5°	70.9	72.1	73.7	75.9	77.9	78.4	78.6	78.8	78.3	77.1	75.6
88°	69.6	70.8	72.5	74.4	76.5	77.0	77.1	77.2	76.9	75.6	74.1
88.5°	68.3	69.4	71.1	73.1	75.0	75.6	75.7	75.8	75.4	74.2	72.6
89°	66.9	68.2	69.8	71.7	73.6	74.1	74.2	74.4	74.0	72.8	71.3
89.5°	65.7	66.9	68.6	70.4	72.2	72.8	72.8	73.0	72.6	71.4	69.9



TEST NUMBER: P601024
 CATALOG NUMBER: FM119S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	64.4	65.6	67.3	69.0	70.9	71.3	71.4	71.5	71.2	70.1	68.4
90.5°	63.2	64.4	66.0	67.7	69.4	70.0	70.0	70.2	69.8	68.7	67.2
91°	62.0	63.1	64.8	66.5	68.1	68.7	68.9	69.0	68.5	67.5	65.8
91.5°	60.8	61.9	63.5	65.2	66.8	67.3	67.5	67.6	67.1	65.7	64.3
92°	59.8	60.8	62.3	64.0	65.5	65.9	66.1	66.3	65.8	64.7	63.4
92.5°	58.6	59.7	61.2	62.8	64.2	64.6	64.7	64.9	64.6	63.4	62.2
93°	57.6	58.7	60.1	61.5	63.0	63.4	63.6	63.7	63.3	62.2	60.8
93.5°	56.4	57.5	59.0	60.4	61.8	62.2	62.3	62.5	62.1	61.0	59.6
94°	55.4	56.5	57.9	59.4	60.5	61.0	61.1	61.3	60.8	59.8	58.7
94.5°	54.3	55.4	56.8	58.3	59.4	59.8	60.0	60.1	59.6	58.9	57.4
95°	53.3	54.4	55.7	57.1	58.3	58.9	58.9	58.9	58.5	57.6	56.2
95.5°	52.3	53.4	54.9	56.1	57.1	57.6	57.7	57.7	57.5	56.4	55.2
96°	51.2	52.3	53.7	55.1	56.0	56.4	56.6	56.6	56.3	55.3	54.2
96.5°	50.4	51.4	52.6	53.9	55.0	55.4	55.4	55.5	55.1	54.3	53.1
97°	49.4	50.4	51.7	52.9	54.2	54.3	54.4	54.5	54.3	53.2	51.9
97.5°	48.4	49.5	50.7	51.8	53.0	53.2	53.3	53.2	53.0	52.0	50.9
98°	47.6	48.5	49.7	50.9	51.8	52.2	52.2	52.2	52.0	51.0	49.8
98.5°	46.6	47.7	48.8	49.9	50.9	51.1	51.2	51.2	50.9	50.0	48.8
99°	45.8	46.7	47.9	49.0	49.8	50.1	50.2	50.3	49.9	49.0	47.8
99.5°	44.9	45.9	46.9	48.0	48.8	49.1	49.4	49.2	48.9	48.3	46.9
100°	44.1	45.0	46.1	47.2	47.9	48.5	48.2	48.2	48.0	47.1	45.9
100.5°	43.3	44.2	45.3	46.3	46.9	47.2	47.2	47.5	47.0	46.2	45.2
101°	42.5	43.3	44.4	45.4	46.0	46.5	46.1	46.4	46.2	45.3	44.2
101.5°	41.7	42.6	43.5	44.5	45.2	45.4	45.4	45.4	45.3	44.6	43.4
102°	40.9	41.8	42.8	43.7	44.3	44.6	44.7	44.5	44.3	43.5	42.4
102.5°	40.1	41.0	42.0	43.0	43.3	43.7	43.6	44.0	43.4	42.8	41.8
103°	39.5	40.5	41.1	42.0	42.6	43.0	43.0	42.9	42.5	42.0	40.9
103.5°	38.7	39.7	40.5	41.4	42.0	42.1	42.1	42.3	41.8	41.0	40.1
104°	38.1	39.0	39.9	40.6	41.0	41.3	41.3	41.5	41.1	40.2	39.5
104.5°	37.4	38.3	39.2	39.8	40.2	41.0	40.9	40.7	40.7	39.4	38.7
105°	36.8	37.7	38.5	39.2	39.6	39.8	39.8	39.9	39.5	38.8	37.9
105.5°	36.2	37.1	37.8	38.5	38.8	39.1	39.1	38.9	38.8	38.1	37.2
106°	35.6	36.4	37.2	37.8	38.2	38.6	38.5	38.3	38.0	37.5	36.7
106.5°	35.0	35.9	36.7	37.3	37.5	37.8	37.8	37.6	37.4	36.7	36.1
107°	34.4	35.2	36.1	36.6	36.8	36.8	37.2	37.0	36.7	36.3	35.3
107.5°	33.9	34.7	35.4	36.0	36.3	36.6	36.5	36.4	36.2	35.5	34.6
108°	33.4	34.0	34.9	35.4	35.5	35.8	35.9	35.8	35.5	34.9	34.0
108.5°	32.9	33.5	34.3	34.8	34.9	35.2	35.2	35.3	34.9	34.4	33.5
109°	32.4	33.0	33.7	34.3	34.2	34.6	34.7	34.5	34.5	33.9	33.2
109.5°	31.9	32.6	33.2	33.7	33.7	34.1	34.2	34.1	33.9	33.2	32.3
110°	31.5	31.9	32.8	33.2	33.1	33.5	33.5	33.4	33.1	32.5	31.8
110.5°	31.0	31.5	32.2	32.7	32.6	32.9	33.1	32.9	32.5	31.9	31.3
111°	30.6	31.0	31.8	32.3	32.1	32.4	32.5	32.3	32.0	31.7	30.8
111.5°	30.1	30.6	31.4	31.8	31.6	32.0	31.9	32.0	31.7	31.0	30.2
112°	29.8	30.2	30.9	31.4	31.1	31.4	31.5	31.3	31.1	30.7	29.8



TEST NUMBER: P601024
 CATALOG NUMBER: FM119S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	29.4	29.8	30.5	30.9	30.8	31.0	31.0	30.9	30.8	30.1	29.4
113°	29.0	29.4	30.0	30.5	30.2	30.8	30.7	30.4	30.1	29.6	28.8
113.5°	28.7	29.0	29.6	30.0	29.7	30.0	30.1	29.9	29.7	29.2	28.6
114°	28.3	28.6	29.2	29.7	29.3	29.8	29.7	29.6	29.3	28.7	28.1
114.5°	28.0	28.2	28.9	29.3	28.9	29.2	29.2	29.0	28.9	28.5	27.6
115°	27.6	27.9	28.6	28.9	28.6	28.7	28.8	28.7	28.6	28.0	27.6
115.5°	27.3	27.5	28.2	28.6	28.1	28.6	28.5	28.4	28.1	27.5	27.1
116°	26.9	27.2	27.9	28.3	27.8	27.9	28.1	27.8	27.8	27.5	26.4
116.5°	26.6	26.9	27.5	27.9	27.6	27.7	27.8	27.6	27.5	26.9	26.4
117°	26.3	26.6	27.2	27.6	27.3	27.6	27.6	27.5	27.0	26.6	25.8
117.5°	26.1	26.3	26.9	27.2	26.7	27.2	27.2	26.8	26.6	26.3	25.5
118°	25.8	26.0	26.5	27.0	26.4	26.6	26.7	26.4	26.3	25.9	25.2
118.5°	25.5	25.7	26.2	26.7	26.2	26.4	26.4	26.3	26.2	25.6	25.0
119°	25.2	25.4	26.0	26.3	25.7	26.3	26.2	25.8	25.7	25.3	24.6
119.5°	25.0	25.2	25.7	26.1	25.5	25.7	25.8	25.5	25.4	25.2	24.3
120°	24.8	24.9	25.4	25.7	25.2	25.4	25.5	25.3	25.2	24.9	24.1
120.5°	24.5	24.7	25.2	25.5	25.0	25.3	25.3	25.1	25.0	24.5	24.0
121°	24.4	24.5	25.0	25.3	24.7	25.1	25.0	24.7	24.5	24.2	23.6
121.5°	24.2	24.3	24.8	25.0	24.4	24.6	24.6	24.5	24.3	24.1	23.3
122°	24.2	24.2	24.6	24.9	24.2	24.4	24.4	24.3	24.2	24.2	23.3
122.5°	24.1	24.1	24.4	24.7	24.1	24.2	24.1	24.0	24.0	23.5	23.1
123°	24.0	24.0	24.3	24.5	23.9	24.1	24.1	24.0	23.5	23.3	23.1
123.5°	23.9	23.8	24.3	24.3	23.6	23.9	23.8	23.6	23.3	23.3	22.7
124°	23.8	23.7	24.1	24.3	23.4	23.6	23.6	23.4	23.3	23.2	22.5
124.5°	23.7	23.5	24.0	24.3	23.3	23.4	23.4	23.3	23.2	23.1	22.4
125°	23.7	23.3	23.9	24.1	23.2	23.3	23.3	23.2	23.1	22.9	22.2
125.5°	23.5	23.3	23.7	24.0	23.2	23.3	23.2	23.1	23.0	22.6	22.1
126°	23.4	23.1	23.6	23.9	23.2	23.2	23.2	23.1	22.7	22.5	22.0
126.5°	23.3	23.1	23.6	23.9	23.1	23.2	23.2	22.7	22.6	22.4	22.0
127°	23.3	22.9	23.4	23.6	23.1	23.0	23.0	22.7	22.6	22.4	22.0
127.5°	23.1	22.9	23.4	23.6	23.1	23.1	22.9	22.7	22.6	22.4	21.9
128°	23.1	22.9	23.2	23.6	23.1	23.1	22.9	22.7	22.5	22.4	21.9
128.5°	23.1	22.9	23.2	23.4	23.1	23.0	22.9	22.7	22.5	22.4	21.9
129°	23.1	22.8	23.2	23.4	23.1	23.0	22.9	22.7	22.5	22.4	21.9
129.5°	23.1	22.8	23.2	23.4	23.1	23.0	22.9	22.7	22.5	22.4	21.9
130°	23.1	22.8	23.1	23.4	23.1	23.0	22.9	22.7	22.5	22.4	21.9
130.5°	23.1	22.8	23.1	23.3	23.1	23.0	22.9	22.7	22.5	22.4	21.9
131°	23.1	22.8	23.1	23.3	23.1	23.0	22.9	22.7	22.5	22.4	21.9
131.5°	23.0	22.8	23.1	23.3	23.1	23.0	22.9	22.7	22.5	22.4	21.9
132°	23.0	22.8	23.1	23.3	23.1	23.0	22.9	22.7	22.5	22.4	21.9
132.5°	23.0	22.8	23.1	23.3	23.1	23.1	22.9	22.7	22.5	22.4	21.9
133°	23.0	22.8	23.1	23.3	23.1	23.1	22.9	22.7	22.5	22.4	21.9
133.5°	23.0	22.8	23.1	23.3	23.1	23.1	22.9	22.8	22.5	22.4	22.0
134°	23.0	22.9	23.1	23.3	23.2	23.2	22.9	22.8	22.5	22.4	22.0
134.5°	23.0	22.9	23.1	23.3	23.2	23.2	23.0	22.8	22.6	22.6	22.0



TEST NUMBER: P601024
 CATALOG NUMBER: FM119S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	23.0	23.1	23.1	23.3	23.2	23.2	23.1	22.9	22.6	22.6	22.1
135.5°	23.1	23.1	23.1	23.3	23.4	23.2	23.1	22.9	22.7	22.6	22.2
136°	23.0	23.1	23.1	23.3	23.4	23.3	23.2	23.0	22.7	22.6	22.2
136.5°	23.0	23.1	23.1	23.3	23.4	23.4	23.3	23.0	22.8	22.8	22.3
137°	23.2	23.3	23.2	23.4	23.6	23.5	23.5	23.1	22.8	22.8	22.4
137.5°	23.2	23.3	23.2	23.3	23.6	23.6	23.5	23.2	23.0	22.9	22.6
138°	23.2	23.3	23.3	23.3	23.7	23.6	23.7	23.3	23.1	23.1	22.6
138.5°	23.2	23.4	23.3	23.5	23.9	23.8	23.7	23.4	23.2	23.1	22.8
139°	23.3	23.5	23.4	23.6	24.0	23.9	23.8	23.4	23.3	23.3	22.9
139.5°	23.3	23.7	23.5	23.8	24.1	23.9	24.0	23.6	23.4	23.3	23.0
140°	23.5	24.0	23.6	24.1	24.2	24.1	24.1	23.8	23.5	23.4	23.1
140.5°	23.6	24.0	24.0	24.2	24.3	24.2	24.1	23.9	23.7	23.6	23.3
141°	24.1	24.0	24.1	24.2	24.3	24.2	24.2	24.1	23.8	23.6	23.4
141.5°	24.2	24.2	24.2	24.2	24.4	24.3	24.2	24.1	24.0	23.8	23.4
142°	24.2	24.4	24.2	24.3	24.5	24.3	24.3	24.3	24.1	24.0	23.6
142.5°	24.3	24.5	24.2	24.4	24.7	24.5	24.4	24.3	24.2	24.0	23.6
143°	24.5	25.0	24.2	24.5	24.8	24.6	24.4	24.4	24.3	24.2	23.7
143.5°	24.7	25.2	24.4	24.7	25.0	24.8	24.6	24.6	24.4	24.2	23.9
144°	25.1	25.2	24.5	24.9	25.1	24.8	24.8	24.7	24.5	24.3	23.9
144.5°	25.2	25.3	24.7	25.2	25.3	25.0	24.8	24.8	24.7	24.5	24.1
145°	25.2	25.6	25.0	25.2	25.5	25.2	25.1	25.0	24.8	24.6	24.2
145.5°	25.4	25.7	25.3	25.3	25.7	25.4	25.1	25.0	25.0	24.7	24.3
146°	25.5	26.0	25.2	25.4	25.8	25.5	25.3	25.3	25.2	24.8	24.3
146.5°	25.7	26.3	25.3	25.5	26.0	25.7	25.5	25.4	25.3	24.9	24.4
147°	25.8	26.3	25.5	25.7	26.0	26.0	25.7	25.5	25.4	25.1	24.6
147.5°	26.2	26.3	25.5	25.7	26.2	26.0	25.8	25.7	25.4	25.2	24.6
148°	26.3	26.4	25.6	25.8	26.3	26.2	25.9	25.7	25.6	25.2	24.7
148.5°	26.5	26.3	25.6	26.1	26.5	26.3	25.9	25.7	25.7	25.3	24.6
149°	26.5	26.6	25.7	26.1	26.6	26.5	25.9	25.7	25.7	25.3	24.6
149.5°	26.5	26.6	25.9	26.3	26.6	26.5	25.9	25.7	25.7	25.4	24.6
150°	26.6	26.6	26.1	26.3	26.6	26.5	25.9	25.7	25.7	25.4	24.6
150.5°	26.6	26.8	26.3	26.5	26.6	26.5	25.9	25.7	25.7	25.3	24.6
151°	26.7	27.0	26.4	26.5	26.6	26.5	25.9	25.7	25.7	25.3	24.6
151.5°	26.7	27.0	26.4	26.5	26.6	26.5	25.8	25.7	25.8	25.2	24.6
152°	26.7	27.0	26.5	26.5	26.7	26.5	25.8	25.8	25.8	25.2	24.6
152.5°	26.7	27.0	26.5	26.5	26.7	26.5	25.8	25.8	25.7	25.2	24.6
153°	26.7	27.0	26.4	26.5	26.5	26.5	25.8	25.7	25.6	25.2	24.7
153.5°	26.7	27.0	26.5	26.6	26.5	26.3	25.8	25.6	25.5	25.2	24.7
154°	26.7	27.0	26.5	26.5	26.3	26.2	25.8	25.6	25.5	25.2	24.6
154.5°	26.7	27.0	26.3	26.5	26.2	26.0	25.7	25.5	25.3	25.2	24.5
155°	26.7	26.9	26.3	26.4	26.0	25.8	25.5	25.3	25.3	25.2	24.4
155.5°	26.8	26.7	26.2	26.2	25.7	25.8	25.5	25.4	25.3	25.1	24.4
156°	26.8	26.6	26.0	26.2	25.5	25.5	25.4	25.3	25.2	24.7	24.3
156.5°	26.7	26.5	26.0	26.0	25.4	25.4	25.3	25.3	25.2	24.6	24.3
157°	26.5	26.4	25.8	25.9	25.3	25.3	25.3	25.3	25.2	24.5	24.1



TEST NUMBER: P601024
 CATALOG NUMBER: FM119S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	26.4	26.4	25.7	25.9	25.3	25.3	25.3	25.2	25.2	24.5	24.1
158°	26.4	26.2	25.6	25.7	25.3	25.4	25.3	25.2	25.0	24.4	24.1
158.5°	26.3	26.0	25.6	25.5	25.2	25.3	25.1	25.0	24.7	24.3	24.1
159°	26.1	26.0	25.5	25.5	25.0	25.1	24.8	24.9	24.6	24.2	23.9
159.5°	26.1	25.7	25.3	25.3	24.7	24.9	24.6	24.6	24.5	24.2	23.5
160°	26.1	25.7	25.3	25.1	24.7	24.7	24.5	24.6	24.5	24.1	23.4
160.5°	25.9	25.6	25.1	25.0	24.4	24.6	24.4	24.6	24.4	23.8	23.4
161°	25.8	25.5	25.0	24.8	24.3	24.4	24.3	24.5	24.2	23.5	23.4
161.5°	25.6	25.4	24.9	24.8	24.2	24.2	24.1	24.3	24.2	23.5	23.2
162°	25.4	25.3	24.7	24.6	24.3	24.1	24.1	24.2	24.2	23.5	23.1
162.5°	25.2	25.0	24.6	24.5	24.1	24.1	24.1	24.3	24.0	23.3	23.1
163°	25.0	24.9	24.4	24.4	23.6	23.8	24.0	24.3	23.6	23.3	23.1
163.5°	24.7	24.7	24.4	24.3	23.4	23.6	23.9	24.1	23.4	23.2	23.1
164°	24.5	24.5	24.3	24.3	23.4	23.4	23.7	23.8	23.3	23.1	22.9
164.5°	24.4	24.2	24.3	24.2	23.3	23.3	23.6	23.6	23.2	23.1	22.7
165°	24.3	24.2	24.2	24.2	23.2	23.3	23.4	23.4	23.2	22.7	22.5
165.5°	24.2	24.1	24.1	24.0	23.2	23.2	23.3	23.4	23.2	22.6	22.5
166°	24.0	24.0	24.1	23.9	23.1	23.2	23.3	23.4	23.1	22.5	22.4
166.5°	23.8	23.9	23.9	23.8	23.2	23.2	23.2	23.2	22.6	22.3	22.3
167°	23.7	23.8	23.7	23.6	23.1	23.0	23.1	23.2	22.5	22.2	22.2
167.5°	23.5	23.6	23.5	23.4	22.7	22.7	22.9	23.2	22.3	22.1	22.0
168°	23.3	23.4	23.4	23.2	22.6	22.5	22.5	23.1	22.1	21.9	22.0
168.5°	23.1	23.3	23.2	23.0	22.5	22.4	22.3	22.8	21.8	21.9	21.9
169°	23.0	23.1	23.0	22.8	22.3	22.3	22.2	22.3	21.9	21.9	21.9
169.5°	22.8	22.9	22.9	22.7	22.1	22.1	21.9	22.0	21.4	21.6	21.5
170°	22.6	22.7	22.7	22.5	22.0	22.0	21.9	21.8	21.2	21.2	21.3
170.5°	22.5	22.5	22.5	22.3	22.0	22.0	21.8	21.3	20.9	21.1	21.1
171°	22.3	22.4	22.3	22.2	22.0	22.0	21.3	21.0	20.8	20.9	21.0
171.5°	22.0	22.2	22.1	22.0	21.7	21.7	21.2	20.7	20.7	20.8	20.8
172°	21.8	21.9	21.8	21.7	21.3	21.3	21.0	20.3	20.5	20.7	20.7
172.5°	21.5	21.6	21.5	21.5	21.0	21.1	20.6	19.9	20.0	20.4	20.5
173°	21.2	21.2	21.1	21.0	20.7	20.8	20.2	19.8	19.7	19.9	20.1
173.5°	20.8	21.0	20.8	20.8	20.4	20.6	19.9	19.8	19.6	19.9	20.1
174°	20.7	20.9	20.8	20.8	20.4	20.6	19.9	19.8	19.6	19.9	20.1
174.5°	22.1	22.5	22.5	22.1	20.9	20.7	20.1	20.0	19.8	20.2	20.5
175°	23.2	23.6	23.5	23.4	22.5	21.9	21.5	21.6	21.4	21.7	22.0
175.5°	23.7	24.2	24.2	24.1	23.9	23.6	23.2	23.3	23.2	23.2	23.7
176°	24.1	24.5	24.6	24.2	24.4	24.3	24.1	24.2	24.1	24.1	24.4
176.5°	24.4	25.0	25.0	24.6	24.8	24.8	24.6	24.6	24.5	24.4	24.9
177°	25.1	25.2	25.2	25.3	25.3	25.2	25.1	25.1	25.1	25.0	25.3
177.5°	25.3	25.4	25.6	25.3	25.8	25.7	25.6	25.7	25.6	25.6	25.8
178°	25.5	25.5	25.7	25.6	25.8	25.8	25.8	25.7	26.0	26.0	26.1
178.5°	25.7	25.7	25.7	25.6	25.8	25.8	25.8	25.7	26.0	26.1	26.1
179°	25.8	25.8	25.7	25.8	25.8	25.8	25.8	25.7	25.9	26.1	26.0
179.5°	26.0	25.9	25.8	26.2	25.8	25.8	25.8	25.7	25.9	26.1	26.1



TEST NUMBER: P601024
CATALOG NUMBER: FM119S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2



TEST NUMBER: P601024
 CATALOG NUMBER: FM119S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	324.4	324.4	324.4	324.4	324.4	324.4
0.5°	324.4	324.4	324.4	324.4	324.4	324.3
1°	324.2	324.4	324.4	324.4	324.4	324.2
1.5°	324.2	324.4	324.4	324.4	324.4	324.2
2°	324.1	324.4	324.4	324.4	324.4	324.1
2.5°	324.1	324.4	324.2	324.2	324.1	323.9
3°	323.9	324.2	324.1	324.0	324.0	323.6
3.5°	323.9	324.1	323.7	323.8	323.7	323.5
4°	323.7	323.9	323.6	323.5	323.4	323.2
4.5°	323.5	323.7	323.4	323.2	323.1	323.0
5°	323.1	323.4	323.1	322.9	322.9	322.6
5.5°	323.0	323.0	322.8	322.6	322.5	322.0
6°	322.6	322.8	322.6	322.3	322.2	321.8
6.5°	322.4	322.4	322.0	321.9	321.8	321.6
7°	322.1	322.1	321.8	321.4	321.4	321.1
7.5°	321.6	321.6	321.4	321.1	320.9	320.4
8°	321.3	321.2	320.9	320.6	320.5	320.2
8.5°	320.9	320.9	320.5	320.2	320.0	319.7
9°	320.5	320.4	320.0	319.6	319.6	319.5
9.5°	320.0	319.9	319.4	319.1	319.1	319.0
10°	319.6	319.4	318.9	318.6	318.5	318.3
10.5°	319.1	318.9	318.5	318.0	317.9	317.7
11°	318.6	318.3	317.8	317.5	317.3	317.2
11.5°	318.1	317.7	317.2	316.8	316.8	316.4
12°	317.5	317.1	316.5	316.2	316.1	315.8
12.5°	317.0	316.5	315.9	315.5	315.3	315.2
13°	316.3	315.8	315.3	314.8	314.7	314.8
13.5°	315.8	315.1	314.5	314.1	313.9	313.8
14°	315.1	314.5	313.8	313.4	313.3	313.1
14.5°	314.4	313.9	313.0	312.6	312.6	312.5
15°	313.7	313.0	312.3	311.8	311.7	311.9
15.5°	312.9	312.2	311.7	311.3	311.1	311.0
16°	312.2	311.6	310.7	310.4	310.3	310.2
16.5°	311.4	310.8	310.1	309.5	309.5	309.5
17°	310.8	310.0	309.3	308.6	308.6	308.4
17.5°	310.1	309.0	308.3	307.7	307.7	307.5
18°	309.2	308.2	307.4	306.8	306.8	306.6
18.5°	308.4	307.3	306.6	306.0	305.8	305.6
19°	307.4	306.2	305.4	305.0	304.9	304.7
19.5°	306.6	305.3	304.6	304.0	303.8	303.8
20°	305.7	304.4	303.6	303.0	302.8	302.9
20.5°	304.8	303.3	302.5	302.0	301.8	301.9
21°	303.6	302.3	301.5	301.0	300.8	300.8
21.5°	302.6	301.3	300.4	299.8	299.6	299.7
22°	301.6	300.2	299.3	298.7	298.6	298.5



TEST NUMBER: P601024
 CATALOG NUMBER: FM119S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	300.4	299.1	298.1	297.7	297.5	297.4
23°	299.4	298.0	297.1	296.5	296.3	296.3
23.5°	298.3	296.9	295.9	295.3	295.1	295.1
24°	297.1	295.8	294.7	294.1	293.9	294.0
24.5°	296.0	294.5	293.5	293.0	292.8	292.8
25°	294.9	293.3	292.2	291.7	291.4	291.5
25.5°	293.8	292.1	291.0	290.4	290.2	290.2
26°	292.5	290.8	289.8	289.2	288.9	288.9
26.5°	291.4	289.6	288.6	287.8	287.7	287.7
27°	290.0	288.3	287.1	286.5	286.3	286.3
27.5°	288.6	286.9	285.8	285.1	284.9	285.1
28°	287.5	285.6	284.5	283.8	283.7	283.8
28.5°	286.0	284.3	283.1	282.3	282.2	282.3
29°	284.7	282.9	281.8	281.0	280.5	280.8
29.5°	283.4	281.4	279.9	279.6	279.2	279.6
30°	281.9	280.0	278.9	278.2	277.8	277.9
30.5°	280.5	278.6	277.1	276.8	276.4	276.5
31°	279.1	277.1	276.0	275.3	275.0	275.2
31.5°	277.7	275.6	274.4	273.7	273.7	273.7
32°	276.2	274.2	273.1	272.3	272.2	272.3
32.5°	274.9	272.8	271.6	270.6	270.6	270.7
33°	273.4	271.2	269.9	269.3	268.8	269.1
33.5°	271.8	269.6	268.3	267.6	267.3	267.5
34°	270.3	268.0	266.7	266.0	265.7	265.9
34.5°	268.8	266.4	265.0	264.3	264.0	264.3
35°	267.0	264.9	263.4	262.6	262.5	262.7
35.5°	265.6	263.1	261.9	261.0	260.8	261.1
36°	263.9	261.5	260.3	259.3	259.1	259.4
36.5°	262.2	259.8	258.5	257.6	257.5	257.6
37°	260.7	258.2	256.8	256.0	255.8	255.9
37.5°	258.9	256.4	255.1	254.3	254.1	254.2
38°	257.4	254.6	253.4	252.6	252.3	252.5
38.5°	255.5	253.0	251.6	250.8	250.6	250.7
39°	253.9	251.2	249.8	249.0	248.8	249.1
39.5°	252.1	249.4	248.2	247.3	247.0	247.3
40°	250.4	247.6	246.3	245.5	245.3	245.5
40.5°	248.5	245.8	244.5	243.7	243.5	243.7
41°	246.9	244.0	242.8	241.9	241.7	241.9
41.5°	245.1	242.2	240.9	240.0	239.8	240.1
42°	243.2	240.4	239.2	238.3	238.1	238.4
42.5°	241.4	238.8	237.4	236.5	236.1	236.5
43°	239.5	236.9	235.5	234.7	234.6	234.7
43.5°	237.9	235.0	233.6	232.8	232.6	232.9
44°	236.0	233.2	231.7	230.9	230.7	231.0
44.5°	234.2	231.2	229.9	229.1	228.9	229.0



TEST NUMBER: P601024
 CATALOG NUMBER: FM119S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	232.4	229.4	228.0	227.2	226.9	227.2
45.5°	230.5	227.5	226.0	225.3	225.0	225.5
46°	228.8	225.7	224.3	223.3	223.1	223.5
46.5°	226.8	223.7	222.3	221.5	221.2	221.5
47°	225.0	221.7	220.3	219.6	219.3	219.6
47.5°	223.0	219.8	218.4	217.6	217.4	217.8
48°	221.1	217.9	216.5	215.7	215.4	215.8
48.5°	219.1	216.0	214.5	213.8	213.5	213.8
49°	217.3	214.0	212.6	211.8	211.5	211.9
49.5°	215.4	212.1	210.6	209.8	209.5	209.9
50°	213.4	210.1	208.7	207.9	207.6	208.0
50.5°	211.5	208.1	206.8	205.9	205.7	206.0
51°	209.5	206.2	204.8	204.0	203.6	204.1
51.5°	207.6	204.2	203.0	202.1	201.8	202.2
52°	205.6	202.5	201.0	200.1	199.8	200.3
52.5°	203.5	200.4	199.0	198.1	197.9	198.3
53°	201.8	198.5	197.0	196.2	195.9	196.4
53.5°	199.8	196.5	195.0	194.2	194.0	194.3
54°	197.9	194.5	193.1	192.1	191.9	192.3
54.5°	195.9	192.5	191.0	190.2	189.9	190.2
55°	193.8	190.5	189.0	188.3	187.8	188.3
55.5°	191.8	188.5	187.0	186.2	185.9	186.3
56°	189.9	186.6	185.2	184.2	183.8	184.2
56.5°	187.9	184.5	183.0	182.1	181.8	182.3
57°	185.8	182.4	181.0	180.1	179.9	180.3
57.5°	183.7	180.4	178.8	178.0	177.8	178.1
58°	181.7	178.4	176.9	176.1	175.6	176.3
58.5°	179.7	176.4	174.9	174.1	173.7	174.2
59°	177.6	174.3	172.9	172.0	171.8	172.1
59.5°	175.7	172.3	170.9	169.9	169.7	170.1
60°	173.6	170.3	168.8	168.0	167.8	168.1
60.5°	171.5	168.2	166.9	166.1	165.7	166.2
61°	169.6	166.5	165.0	164.0	163.7	164.3
61.5°	167.5	164.3	162.9	162.0	161.7	162.3
62°	165.7	162.3	160.9	159.9	159.7	160.2
62.5°	163.7	160.4	158.8	157.9	157.6	158.2
63°	161.6	158.3	156.7	155.8	155.7	156.2
63.5°	159.6	156.3	154.8	153.8	153.6	154.1
64°	157.6	154.2	152.6	151.8	151.5	152.0
64.5°	155.5	152.2	150.6	149.7	149.5	150.0
65°	153.6	150.2	148.6	147.8	147.5	148.0
65.5°	151.5	148.2	146.6	145.8	145.5	146.1
66°	149.5	146.1	144.6	143.8	143.4	144.0
66.5°	147.4	144.1	142.6	141.7	141.5	142.0
67°	145.4	142.2	140.7	139.7	139.5	140.1



TEST NUMBER: P601024
 CATALOG NUMBER: FM119S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	143.6	140.2	138.6	137.8	137.5	138.0
68°	141.5	138.2	136.7	135.8	135.6	136.1
68.5°	139.5	136.2	134.6	133.8	133.6	134.2
69°	137.6	134.2	132.7	131.9	131.7	132.2
69.5°	135.6	132.3	130.9	130.0	129.8	130.4
70°	133.6	130.5	128.9	128.0	127.9	128.4
70.5°	131.7	128.6	127.0	126.1	126.0	126.5
71°	129.9	126.6	125.1	124.2	124.1	124.7
71.5°	128.0	124.8	123.2	122.3	122.2	122.7
72°	126.0	122.9	121.3	120.4	120.3	120.9
72.5°	124.1	121.0	119.5	118.5	118.4	119.0
73°	122.2	119.1	117.6	116.7	116.6	117.1
73.5°	120.3	117.3	115.8	114.9	114.8	115.3
74°	118.5	115.5	113.9	113.0	113.0	113.4
74.5°	116.6	113.7	112.2	111.3	111.2	111.6
75°	114.7	111.8	110.3	109.4	109.3	109.8
75.5°	112.9	110.1	108.7	107.7	107.5	108.1
76°	111.1	108.3	106.8	105.8	105.7	106.4
76.5°	109.3	106.5	104.9	104.0	103.9	104.6
77°	107.5	104.8	103.3	102.4	102.2	102.9
77.5°	105.8	103.0	101.5	100.7	100.6	101.2
78°	104.0	101.3	99.8	98.9	98.9	99.4
78.5°	102.2	99.6	98.1	97.2	97.2	97.8
79°	100.5	97.9	96.4	95.8	95.8	96.1
79.5°	98.8	96.3	95.0	94.2	94.1	94.7
80°	97.1	94.8	93.4	92.5	92.4	92.9
80.5°	95.6	93.2	91.8	90.9	90.9	91.4
81°	94.0	91.5	90.1	89.2	89.2	89.8
81.5°	92.4	89.9	88.6	87.6	87.8	88.2
82°	90.6	88.4	86.9	86.2	86.1	86.7
82.5°	89.0	86.8	85.5	84.6	84.5	85.2
83°	87.5	85.3	83.9	83.1	83.1	83.6
83.5°	86.0	83.7	82.3	81.5	81.5	82.1
84°	84.4	82.2	80.9	80.1	80.0	80.6
84.5°	82.8	80.7	79.4	78.7	78.6	79.1
85°	81.3	79.4	78.0	77.3	77.2	77.7
85.5°	79.9	77.9	76.6	75.7	75.7	76.3
86°	78.4	76.5	75.1	74.3	74.3	74.9
86.5°	76.9	75.0	73.7	73.0	73.0	73.5
87°	75.5	73.6	72.3	71.6	71.6	72.2
87.5°	73.9	72.3	71.0	70.2	70.3	70.9
88°	72.7	71.0	69.7	68.9	68.9	69.6
88.5°	71.2	69.7	68.3	67.6	67.6	68.3
89°	69.8	68.3	67.0	66.4	66.4	66.9
89.5°	68.5	67.0	65.7	65.1	65.1	65.7



TEST NUMBER: P601024
 CATALOG NUMBER: FM119S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	67.1	65.7	64.5	63.9	63.9	64.4
90.5°	65.8	64.4	63.3	62.6	62.6	63.2
91°	64.6	63.3	62.1	61.4	61.4	62.0
91.5°	63.3	62.0	60.9	60.3	60.3	60.8
92°	62.0	60.9	59.8	59.2	59.3	59.8
92.5°	60.7	59.8	58.7	58.0	58.2	58.6
93°	59.6	58.7	57.6	56.9	57.0	57.6
93.5°	58.7	57.5	56.4	55.8	55.9	56.4
94°	57.3	56.5	55.4	54.7	55.0	55.4
94.5°	56.0	55.3	54.4	53.8	53.7	54.3
95°	55.1	54.3	53.3	52.7	52.7	53.3
95.5°	54.2	53.3	52.3	51.7	51.6	52.3
96°	53.0	52.3	51.2	50.6	50.7	51.2
96.5°	51.9	51.2	50.3	49.7	49.7	50.4
97°	50.9	50.2	49.4	48.7	48.7	49.4
97.5°	49.8	49.3	48.5	47.8	47.8	48.4
98°	48.9	48.4	47.5	46.8	46.9	47.6
98.5°	48.0	47.4	46.6	45.9	46.0	46.6
99°	46.9	46.5	45.7	45.1	45.1	45.8
99.5°	46.0	45.6	44.9	44.2	44.2	44.9
100°	45.1	44.7	44.0	43.4	43.4	44.1
100.5°	44.2	43.9	43.1	42.6	42.7	43.3
101°	43.5	43.1	42.3	41.8	41.9	42.5
101.5°	42.3	42.3	41.6	41.1	41.1	41.7
102°	41.9	41.6	40.8	40.3	40.3	40.9
102.5°	41.0	40.7	40.1	39.4	39.6	40.1
103°	40.2	39.9	39.4	38.9	38.9	39.5
103.5°	39.3	39.2	38.7	38.3	38.0	38.7
104°	38.7	38.5	37.9	37.6	37.6	38.1
104.5°	37.7	37.8	37.0	37.0	37.0	37.4
105°	37.2	37.1	36.7	36.4	36.4	36.8
105.5°	36.6	36.5	36.1	35.8	35.8	36.2
106°	36.0	35.9	35.5	35.2	35.2	35.6
106.5°	35.2	35.2	34.9	34.7	34.6	35.0
107°	34.8	34.6	34.3	34.1	34.0	34.4
107.5°	34.1	34.1	33.8	33.6	33.5	33.9
108°	33.5	33.5	33.3	33.1	33.0	33.4
108.5°	32.9	32.9	32.7	32.6	32.5	32.9
109°	32.3	32.4	32.2	32.1	32.1	32.4
109.5°	31.8	31.9	31.7	31.7	31.6	31.9
110°	31.1	31.4	31.2	31.2	31.1	31.5
110.5°	30.7	30.9	30.8	30.7	30.7	31.0
111°	30.2	30.5	30.4	30.3	30.2	30.6
111.5°	29.7	30.0	29.9	29.9	29.8	30.1
112°	29.3	29.5	29.5	29.6	29.5	29.8



TEST NUMBER: P601024
 CATALOG NUMBER: FM119S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	28.8	29.1	29.1	29.2	29.1	29.4
113°	28.5	28.7	28.8	28.8	28.7	29.0
113.5°	27.9	28.4	28.4	28.5	28.3	28.7
114°	27.6	27.9	28.1	28.2	28.0	28.3
114.5°	27.4	27.7	27.7	27.8	27.6	28.0
115°	26.9	27.3	27.3	27.4	27.3	27.6
115.5°	26.4	27.1	27.1	27.2	27.0	27.3
116°	26.2	26.7	26.7	26.9	26.7	26.9
116.5°	25.7	26.4	26.5	26.5	26.3	26.6
117°	25.4	26.1	26.2	26.2	26.0	26.3
117.5°	25.2	25.8	25.9	26.0	25.7	26.1
118°	24.8	25.5	25.6	25.7	25.4	25.8
118.5°	24.6	25.2	25.3	25.4	25.1	25.5
119°	24.3	24.9	25.1	25.1	24.8	25.2
119.5°	24.1	24.8	24.8	24.9	24.6	25.0
120°	24.0	24.4	24.6	24.7	24.3	24.8
120.5°	23.5	24.4	24.4	24.4	24.3	24.5
121°	23.3	24.2	24.3	24.3	24.1	24.4
121.5°	23.3	24.0	24.1	24.1	23.9	24.2
122°	23.2	23.9	24.0	23.9	23.8	24.2
122.5°	23.2	23.7	23.9	23.8	23.5	24.1
123°	22.8	23.6	23.7	23.7	23.4	24.0
123.5°	22.6	23.4	23.6	23.5	23.3	23.9
124°	22.4	23.3	23.4	23.3	23.2	23.8
124.5°	22.3	23.2	23.4	23.1	23.1	23.7
125°	22.2	23.1	23.2	23.0	22.9	23.7
125.5°	22.2	23.0	23.2	22.9	22.8	23.5
126°	22.2	22.9	23.1	22.8	22.8	23.4
126.5°	22.2	22.7	23.0	22.7	22.7	23.3
127°	22.2	22.7	22.9	22.7	22.6	23.3
127.5°	22.2	22.7	22.9	22.6	22.7	23.1
128°	22.2	22.7	22.8	22.5	22.5	23.1
128.5°	22.2	22.5	22.7	22.5	22.4	23.1
129°	22.2	22.5	22.7	22.5	22.4	23.1
129.5°	22.2	22.6	22.7	22.5	22.4	23.1
130°	22.2	22.5	22.7	22.5	22.4	23.1
130.5°	22.2	22.5	22.7	22.4	22.4	23.1
131°	22.2	22.5	22.7	22.4	22.4	23.1
131.5°	22.2	22.5	22.7	22.4	22.4	23.0
132°	22.2	22.5	22.7	22.4	22.4	23.0
132.5°	22.2	22.5	22.7	22.4	22.4	23.0
133°	22.3	22.5	22.7	22.4	22.4	23.0
133.5°	22.4	22.5	22.7	22.4	22.4	23.0
134°	22.5	22.5	22.7	22.4	22.4	23.0
134.5°	22.5	22.5	22.7	22.4	22.4	23.0



TEST NUMBER: P601024
 CATALOG NUMBER: FM119S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	22.6	22.5	22.7	22.4	22.4	23.0
135.5°	22.7	22.5	22.7	22.4	22.4	23.1
136°	22.7	22.5	22.7	22.5	22.4	23.0
136.5°	22.8	22.5	22.7	22.5	22.4	23.0
137°	22.9	22.7	22.7	22.5	22.4	23.2
137.5°	22.9	22.9	22.7	22.7	22.5	23.2
138°	23.1	23.2	22.7	22.7	22.6	23.2
138.5°	23.2	23.2	23.1	23.0	22.9	23.2
139°	23.3	23.2	23.1	23.1	23.1	23.3
139.5°	23.4	23.2	23.2	23.2	23.1	23.3
140°	23.4	23.4	23.2	23.2	23.2	23.5
140.5°	23.4	23.3	23.4	23.3	23.3	23.6
141°	23.4	23.5	23.3	23.3	23.4	24.1
141.5°	23.6	23.7	23.5	23.4	23.4	24.2
142°	23.6	24.1	23.7	23.5	23.7	24.2
142.5°	23.7	24.2	24.0	23.7	24.1	24.3
143°	23.9	24.2	24.1	24.1	24.2	24.5
143.5°	23.9	24.3	24.1	24.2	24.2	24.7
144°	24.1	24.5	24.3	24.1	24.3	25.1
144.5°	24.3	24.6	24.5	24.2	24.4	25.2
145°	24.3	25.1	24.6	24.4	24.7	25.2
145.5°	24.5	25.3	24.6	24.6	24.9	25.4
146°	24.6	25.3	24.9	24.7	25.3	25.5
146.5°	24.8	25.4	25.2	25.0	25.3	25.7
147°	25.0	25.5	25.3	25.2	25.3	25.8
147.5°	25.2	25.5	25.3	25.3	25.4	26.2
148°	25.3	25.7	25.3	25.3	25.5	26.3
148.5°	25.3	25.8	25.4	25.3	25.7	26.5
149°	25.4	25.9	25.5	25.5	25.7	26.5
149.5°	25.3	26.2	25.7	25.6	26.0	26.5
150°	25.3	26.5	25.8	25.7	26.2	26.6
150.5°	25.3	26.5	25.8	25.8	26.4	26.6
151°	25.3	26.5	26.1	26.0	26.4	26.7
151.5°	25.3	26.5	26.2	26.0	26.4	26.7
152°	25.4	26.6	26.2	26.0	26.4	26.7
152.5°	25.4	26.6	26.2	26.0	26.5	26.7
153°	25.3	26.6	26.2	26.0	26.4	26.7
153.5°	25.2	26.5	26.2	26.0	26.4	26.7
154°	25.2	26.4	26.2	26.0	26.4	26.7
154.5°	24.9	26.2	26.2	26.0	26.4	26.7
155°	24.7	26.1	26.1	26.0	26.4	26.7
155.5°	24.6	26.0	26.0	26.0	26.4	26.8
156°	24.5	25.8	26.0	26.0	26.4	26.8
156.5°	24.4	25.7	25.9	26.0	26.2	26.7
157°	24.3	25.6	25.8	25.9	26.1	26.5



TEST NUMBER: P601024
 CATALOG NUMBER: FM119S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	24.2	25.5	25.8	25.9	26.1	26.4
158°	24.1	25.4	25.7	25.8	26.0	26.4
158.5°	24.1	25.3	25.6	25.7	25.9	26.3
159°	23.9	25.2	25.5	25.5	25.8	26.1
159.5°	23.8	25.1	25.4	25.5	25.8	26.1
160°	23.6	25.0	25.3	25.4	25.6	26.1
160.5°	23.4	25.0	25.3	25.3	25.6	25.9
161°	23.3	24.8	25.1	25.2	25.5	25.8
161.5°	23.3	24.6	25.0	25.1	25.4	25.6
162°	23.2	24.5	24.8	25.0	25.3	25.4
162.5°	23.2	24.3	24.8	24.9	25.2	25.2
163°	23.2	24.2	24.6	24.8	25.1	25.0
163.5°	23.1	24.1	24.5	24.7	25.0	24.7
164°	22.9	24.0	24.3	24.6	24.9	24.5
164.5°	22.8	23.8	24.3	24.5	24.8	24.4
165°	22.7	23.7	24.2	24.5	24.8	24.3
165.5°	22.5	23.6	24.1	24.3	24.6	24.2
166°	22.5	23.5	23.9	24.3	24.3	24.0
166.5°	22.4	23.4	23.8	24.3	24.3	23.8
167°	22.2	23.2	23.6	24.1	24.1	23.7
167.5°	22.1	23.0	23.4	23.9	23.8	23.5
168°	21.9	22.7	23.1	23.8	23.6	23.3
168.5°	22.0	22.7	22.9	23.4	23.2	23.1
169°	22.0	22.5	22.7	23.0	22.9	23.0
169.5°	21.6	22.3	22.5	22.7	22.7	22.8
170°	21.3	22.2	22.4	22.2	22.5	22.6
170.5°	21.2	21.9	22.1	21.9	22.3	22.5
171°	20.9	21.8	21.8	21.5	22.1	22.3
171.5°	20.8	21.5	21.5	21.1	21.8	22.0
172°	20.8	21.1	21.1	20.6	21.4	21.8
172.5°	20.6	20.8	20.5	20.2	20.9	21.5
173°	20.1	20.3	20.0	19.9	20.4	21.2
173.5°	20.1	20.0	19.7	19.5	20.0	20.8
174°	20.1	20.0	19.7	19.5	19.9	20.7
174.5°	20.3	21.7	21.3	21.2	21.4	22.1
175°	21.9	22.9	22.6	22.5	22.7	23.2
175.5°	23.7	23.3	23.2	23.3	23.3	23.7
176°	24.6	23.9	23.7	23.7	23.9	24.1
176.5°	25.1	24.3	24.3	24.3	24.3	24.4
177°	25.5	24.9	24.9	24.8	25.0	25.1
177.5°	25.8	25.2	25.2	25.3	25.3	25.3
178°	25.8	25.3	25.3	25.4	25.5	25.5
178.5°	25.8	25.5	25.5	25.5	25.7	25.7
179°	25.8	25.6	25.5	25.6	25.8	25.8
179.5°	25.8	25.8	25.7	25.7	25.9	26.0



TEST NUMBER: P601024
CATALOG NUMBER: FM119S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	26.2	26.2	26.2	26.2	26.2	26.2

(END OF REPORT)