

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: P601022

Luminaire Tested: FM119S1EWHR_3000K

Issue Date: 3/13/2023

Test Information

Test Method: LM-79-2019
Report Number: P601022
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_3000K
Description: FM119S1EWHR at 3000K
Light Source: -
Ballast/Driver: -

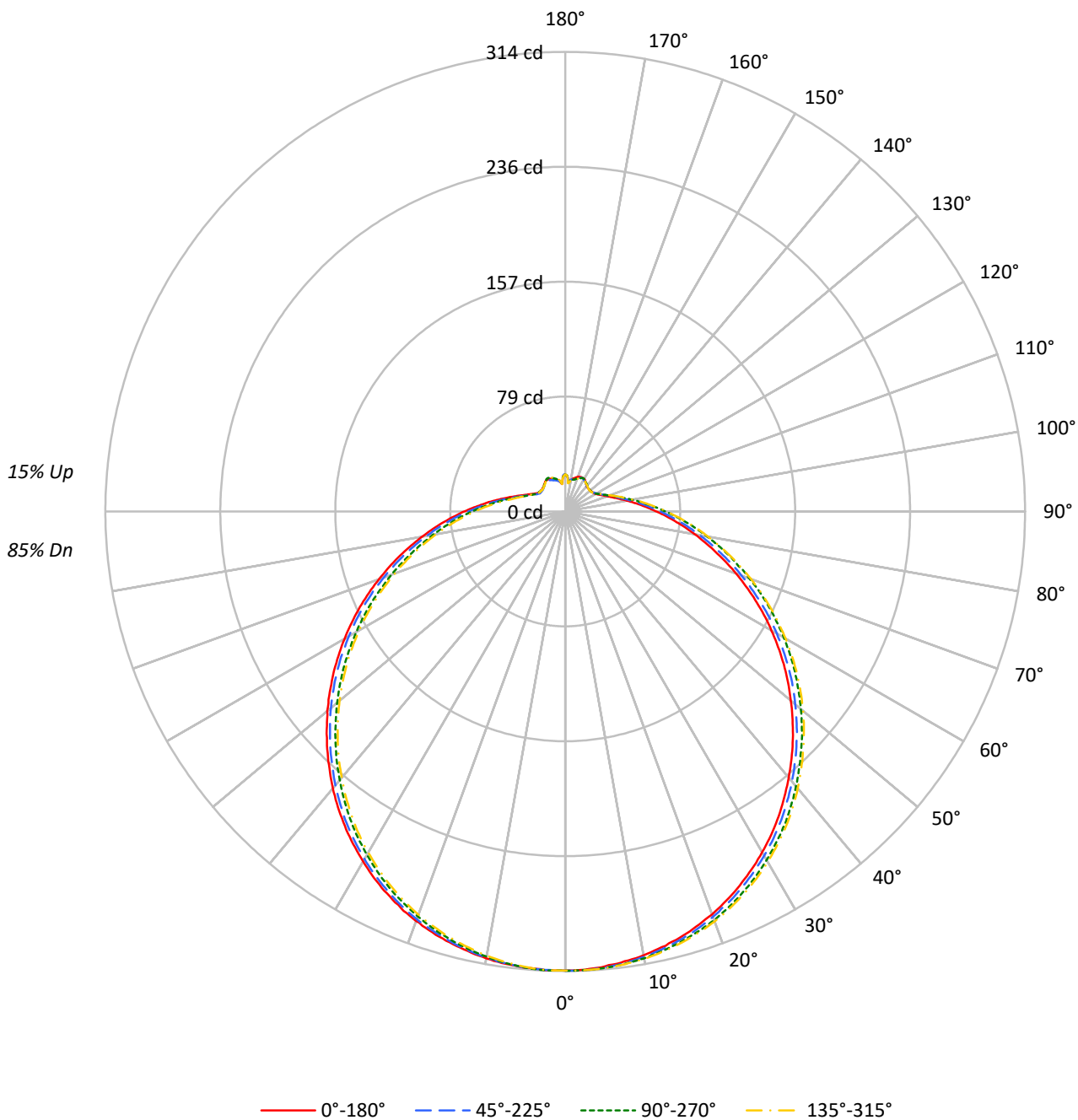
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1301.7 lumens
Efficiency: N/A
Efficacy: 90.4 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 (A_{in}): 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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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°	3686	3686	3686	3686
5°	3559	3571	3570	3568
10°	3438	3461	3461	3449
15°	3324	3354	3358	3335
20°	3209	3254	3261	3225
25°	3095	3149	3159	3113
30°	2978	3047	3059	3000
35°	2864	2943	2956	2888
40°	2745	2835	2854	2769
45°	2629	2729	2749	2653
50°	2512	2624	2649	2538
55°	2399	2523	2544	2427
60°	2283	2422	2443	2312
65°	2169	2322	2345	2202
70°	2062	2225	2247	2096
75°	1966	2142	2161	2001
80°	1897	2074	2093	1935
85°	1859	2044	2059	1901

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 2755 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.7	2.3
10°-20°	85.7	6.6
20°-30°	131.5	10.1
30°-40°	161.8	12.4
40°-50°	173.7	13.3
50°-60°	168.1	12.9
60°-70°	147.7	11.3
70°-80°	118.1	9.1
80°-90°	86.8	6.7
90°-100°	59.4	4.6
100°-110°	39.5	3.0
110°-120°	27.1	2.1
120°-130°	20.3	1.6
130°-140°	17.1	1.3
140°-150°	15.1	1.2
150°-160°	11.5	0.9
160°-170°	6.5	0.5
170°-180°	2.0	0.2
0°-30°	247.0	19.0
0°-40°	408.8	31.4
0°-60°	750.5	57.7
0°-90°	1103.1	84.7
90°-120°	126.1	9.7
90°-150°	178.6	13.7
90°-180°	199.0	15.3
0°-180°	1301.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	314	314	314	314	314	
5°	312	313	313	313	312	30
15°	302	304	305	303	302	85
25°	282	287	288	284	282	130
35°	254	261	262	256	254	159
45°	220	228	230	222	220	170
55°	182	192	193	184	182	163
65°	143	153	155	145	143	142
75°	106	116	117	108	106	113
85°	75	83	83	77	75	64
90°	62	69	69	64	62	34
95°	52	56	57	53	52	40
105°	36	38	38	36	36	38
115°	27	28	28	26	27	27
125°	23	22	22	22	23	21
135°	22	22	22	22	22	17
145°	24	25	24	24	24	15
155°	26	25	24	25	26	12
165°	24	22	22	23	24	7
175°	22	22	21	22	22	2
180°	25	25	25	25	25	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	313.7	313.7	313.7	313.7	313.7	313.7	313.7	313.7	313.7	313.7	313.7
0.5°	313.7	313.7	313.8	313.9	313.8	313.7	313.7	313.7	313.7	313.7	313.7
1°	313.6	313.7	313.8	313.9	313.8	313.7	313.7	313.8	313.7	313.6	313.7
1.5°	313.6	313.7	313.8	313.8	313.7	313.7	313.7	313.8	313.7	313.5	313.6
2°	313.5	313.5	313.8	313.8	313.7	313.8	313.8	313.7	313.7	313.4	313.5
2.5°	313.3	313.3	313.7	313.9	313.6	313.8	313.7	313.7	313.7	313.3	313.5
3°	313.0	313.2	313.6	313.8	313.5	313.7	313.7	313.6	313.2	313.3	313.4
3.5°	312.8	313.0	313.3	313.7	313.5	313.6	313.5	313.6	313.1	313.1	313.3
4°	312.6	312.8	313.2	313.4	313.3	313.4	313.5	313.5	313.0	313.0	313.2
4.5°	312.4	312.5	312.9	313.3	313.2	313.3	313.3	313.3	312.9	312.9	313.0
5°	312.0	312.3	312.7	313.3	313.1	313.3	313.1	313.3	313.0	312.8	312.8
5.5°	311.4	312.0	312.6	312.9	312.8	313.2	313.1	313.2	312.8	312.6	312.6
6°	311.3	311.7	312.2	312.5	312.6	312.8	312.8	312.9	312.4	312.2	312.2
6.5°	311.1	311.3	312.0	312.2	312.3	312.6	312.5	312.5	312.1	312.1	312.0
7°	310.6	311.0	311.6	311.9	312.0	312.2	312.2	312.3	311.9	311.8	311.7
7.5°	309.9	310.6	311.2	311.6	311.8	312.1	312.1	312.1	311.8	311.6	311.4
8°	309.7	310.2	310.8	311.2	311.4	311.7	311.6	311.8	311.5	311.2	311.1
8.5°	309.3	309.7	310.4	310.9	311.0	311.3	311.4	311.4	311.1	310.8	310.8
9°	309.0	309.2	310.0	310.4	310.7	311.0	311.1	311.1	310.9	310.5	310.1
9.5°	308.5	308.8	309.5	310.1	310.3	310.6	310.7	310.8	310.3	310.1	309.9
10°	307.9	308.3	309.0	309.7	310.0	310.2	310.3	310.3	310.0	309.7	309.5
10.5°	307.3	307.8	308.5	309.2	309.5	309.9	310.0	309.9	309.5	309.2	309.1
11°	306.8	307.3	308.1	308.6	309.0	309.3	309.5	309.6	309.1	308.8	308.5
11.5°	306.1	306.7	307.4	308.0	308.5	308.9	309.1	309.2	308.7	308.3	308.0
12°	305.5	306.0	306.9	307.5	308.0	308.4	308.6	308.7	308.2	307.8	307.6
12.5°	304.9	305.4	306.3	306.9	307.5	307.9	308.0	308.1	307.6	307.3	307.0
13°	304.5	304.8	305.7	306.4	306.9	307.4	307.6	307.6	307.1	306.8	306.5
13.5°	303.5	304.2	305.0	305.7	306.3	306.8	307.1	307.1	306.5	306.3	305.9
14°	302.8	303.4	304.5	305.2	305.7	306.3	306.4	306.5	306.0	305.6	305.3
14.5°	302.3	302.7	303.7	304.4	305.2	305.8	305.9	305.9	305.5	305.1	304.7
15°	301.7	302.0	303.0	303.8	304.5	305.0	305.2	305.3	304.8	304.4	304.0
15.5°	300.8	301.3	302.3	303.0	303.8	304.6	304.7	304.8	304.3	303.8	303.3
16°	300.0	300.7	301.5	302.3	303.1	303.7	304.0	304.1	303.4	303.1	302.6
16.5°	299.3	299.8	300.9	301.5	302.4	303.0	303.3	303.4	303.0	302.4	301.9
17°	298.3	299.0	300.1	301.1	301.7	302.4	302.6	302.7	302.5	301.8	301.2
17.5°	297.4	298.2	299.3	300.2	301.0	301.5	301.9	301.9	301.5	301.1	300.4
18°	296.6	297.3	298.4	299.4	300.4	300.8	301.2	301.2	300.8	300.2	299.8
18.5°	295.6	296.5	297.5	298.6	299.5	300.3	300.6	300.5	300.1	299.6	299.0
19°	294.7	295.5	296.7	297.6	298.8	299.3	299.7	299.8	299.4	298.8	298.1
19.5°	293.8	294.6	295.8	296.8	298.0	298.6	298.9	299.0	298.2	297.9	297.3
20°	293.0	293.7	294.8	295.8	297.1	297.7	298.1	298.2	297.7	297.1	296.4
20.5°	292.0	292.6	293.8	294.9	296.2	296.8	297.2	297.4	296.8	296.2	295.6
21°	290.9	291.7	292.9	293.9	295.2	296.0	296.4	296.5	295.9	295.5	294.7
21.5°	289.9	290.6	291.4	293.0	294.3	295.1	295.5	295.6	295.0	294.5	293.7
22°	288.8	289.5	290.9	292.1	293.4	294.0	294.5	294.6	294.4	293.5	292.7



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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°	287.7	288.5	289.8	291.0	292.4	293.1	293.5	293.7	293.2	292.4	291.7
23°	286.6	287.4	288.8	290.0	291.4	292.0	292.6	292.7	291.9	291.4	290.7
23.5°	285.5	286.3	287.8	288.9	290.3	291.1	291.6	291.7	291.3	290.4	289.7
24°	284.4	285.1	286.5	287.9	289.3	290.1	290.6	290.7	290.1	289.5	288.6
24.5°	283.2	284.0	285.4	286.8	288.2	289.0	289.4	289.5	289.0	288.4	287.4
25°	282.0	283.0	284.3	285.5	287.0	287.8	288.4	288.5	287.9	287.3	286.4
25.5°	280.7	281.8	283.1	284.4	285.9	286.9	287.3	287.4	287.1	286.1	285.1
26°	279.4	280.3	281.9	283.4	284.9	285.8	286.2	286.2	285.9	284.9	284.2
26.5°	278.3	279.1	280.6	282.0	283.6	284.7	285.1	285.1	284.6	283.8	282.9
27°	276.9	277.9	279.5	280.8	282.6	283.5	283.9	284.0	283.6	282.7	281.7
27.5°	275.7	276.6	278.2	279.6	281.4	282.3	282.8	282.8	282.4	281.5	280.5
28°	274.4	275.2	276.9	278.4	280.1	281.0	281.5	281.7	281.1	280.2	279.3
28.5°	273.1	273.9	275.6	277.1	278.8	279.8	280.4	280.5	279.9	279.1	278.1
29°	271.6	272.6	274.3	275.8	277.7	278.6	279.1	279.2	278.6	277.8	276.8
29.5°	270.4	271.3	273.0	274.4	276.3	277.4	277.8	278.0	277.3	276.6	275.5
30°	268.8	270.2	271.6	273.1	275.0	276.1	276.5	276.6	276.1	275.2	274.2
30.5°	267.5	268.6	270.3	271.9	273.7	274.7	275.2	275.3	274.8	273.9	272.8
31°	266.2	267.1	268.8	270.3	272.3	273.4	273.9	274.1	273.5	272.6	271.4
31.5°	264.7	265.9	267.5	269.0	271.0	272.1	272.5	272.8	272.1	271.2	270.1
32°	263.4	264.5	266.3	267.6	269.7	270.8	271.2	271.3	270.7	269.9	268.7
32.5°	261.8	262.9	264.7	266.3	268.2	269.3	269.8	270.0	269.5	268.5	267.3
33°	260.3	261.5	263.1	265.1	266.8	267.8	268.5	268.6	268.1	267.2	265.9
33.5°	258.8	259.9	261.8	263.4	265.5	266.4	267.1	267.2	266.6	265.7	264.5
34°	257.2	258.4	260.2	262.0	264.1	265.1	265.7	265.8	265.4	264.4	263.0
34.5°	255.7	256.8	258.7	260.4	262.5	263.7	264.3	264.5	263.9	263.0	261.6
35°	254.1	255.3	257.2	258.8	261.1	262.3	262.7	263.0	262.2	261.5	260.1
35.5°	252.5	253.7	255.6	257.3	259.7	260.7	261.3	261.5	260.9	260.0	258.6
36°	250.9	252.0	254.1	255.7	258.0	259.2	259.8	260.0	259.3	258.4	257.0
36.5°	249.2	250.5	252.4	254.1	256.5	257.7	258.3	258.4	257.9	257.0	255.5
37°	247.5	248.8	250.8	252.6	254.9	256.3	256.7	257.0	256.4	255.4	253.8
37.5°	245.8	247.2	249.1	251.1	253.3	254.5	255.1	255.3	254.8	253.7	252.3
38°	244.2	245.5	247.6	249.4	251.7	252.9	253.4	253.7	253.3	252.1	250.6
38.5°	242.5	243.8	245.9	247.8	250.2	251.4	251.9	252.2	251.7	250.5	249.1
39°	240.9	242.2	244.3	246.1	248.4	249.5	250.3	250.5	250.0	248.8	247.4
39.5°	239.2	240.5	242.6	244.5	247.0	248.1	248.8	248.9	248.5	247.4	245.8
40°	237.4	238.8	240.9	242.8	245.2	246.3	247.0	247.2	246.8	245.6	244.1
40.5°	235.7	237.0	239.1	241.1	243.6	244.6	245.3	245.5	245.1	244.0	242.5
41°	233.9	235.3	237.4	239.4	241.8	243.0	243.7	243.9	243.5	242.4	240.7
41.5°	232.2	233.5	235.8	237.6	240.2	241.4	241.9	242.2	241.7	240.7	238.9
42°	230.5	231.7	233.9	235.9	238.4	239.8	240.2	240.5	240.0	238.9	237.2
42.5°	228.8	230.2	232.2	234.2	236.7	238.0	238.6	238.8	238.2	237.2	235.4
43°	227.0	228.4	230.6	232.5	235.1	236.2	236.7	237.1	236.6	235.5	233.7
43.5°	225.2	226.7	228.8	230.9	233.3	234.4	235.2	235.4	235.0	233.8	232.0
44°	223.4	224.9	227.1	229.1	231.4	232.8	233.3	233.6	233.1	231.9	230.4
44.5°	221.5	223.0	225.2	227.4	229.9	230.9	231.5	231.9	231.3	230.4	228.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	219.8	221.3	223.4	225.6	228.1	229.4	229.9	230.3	229.8	228.6	226.9
45.5°	218.1	219.4	221.7	223.8	226.4	227.5	228.2	228.5	228.1	227.0	225.3
46°	216.2	217.6	219.9	221.9	224.6	225.7	226.4	226.7	226.2	225.2	223.3
46.5°	214.2	215.8	218.2	220.2	222.9	224.1	224.6	224.9	224.4	223.5	221.5
47°	212.4	213.9	216.2	218.3	221.1	222.2	222.8	223.1	222.8	221.6	219.7
47.5°	210.6	212.0	214.4	216.5	219.2	220.4	221.0	221.4	220.9	219.7	217.9
48°	208.7	210.2	212.5	214.6	217.5	218.5	219.2	219.6	219.0	218.0	216.2
48.5°	206.8	208.4	210.5	212.9	215.6	216.8	217.5	217.7	217.2	216.2	214.4
49°	205.0	206.5	208.8	210.9	213.8	215.0	215.5	215.9	215.3	214.3	212.5
49.5°	203.0	204.6	206.9	209.2	212.0	213.2	213.8	214.1	213.6	212.6	210.8
50°	201.1	202.7	205.0	207.3	210.1	211.2	212.0	212.3	212.1	210.9	208.7
50.5°	199.2	200.8	203.2	205.4	208.2	209.4	210.0	210.4	209.9	208.9	206.9
51°	197.4	199.0	201.3	203.5	206.4	207.6	208.1	208.5	208.1	207.0	205.0
51.5°	195.5	197.1	199.5	201.6	204.6	205.8	206.4	206.7	206.5	205.3	203.2
52°	193.7	195.3	197.6	199.8	202.7	203.8	204.5	204.8	204.4	203.4	201.4
52.5°	191.8	193.3	195.8	197.9	200.8	202.0	202.6	202.9	202.6	201.5	199.4
53°	189.9	191.5	193.9	196.2	198.9	200.2	200.7	201.0	200.7	199.6	197.6
53.5°	188.0	189.5	192.0	194.3	197.1	198.2	198.8	199.2	198.7	197.7	195.8
54°	186.0	187.6	190.0	192.4	195.3	196.3	196.9	197.2	197.0	195.9	193.7
54.5°	184.0	185.7	188.2	190.5	193.4	194.5	195.1	195.4	195.2	194.0	191.9
55°	182.2	183.7	186.2	188.7	191.6	192.7	193.2	193.6	193.2	192.2	190.1
55.5°	180.1	181.8	184.3	186.7	189.6	190.8	191.4	191.7	191.4	190.2	188.1
56°	178.2	179.8	182.3	184.7	187.7	188.7	189.3	189.6	189.5	188.3	186.2
56.5°	176.3	177.9	180.4	182.8	185.9	187.0	187.4	187.8	187.4	186.4	184.3
57°	174.4	175.9	178.5	180.9	183.9	184.9	185.5	185.8	185.6	184.6	182.4
57.5°	172.2	173.9	176.5	179.2	182.1	183.2	183.5	183.9	183.6	182.7	180.3
58°	170.5	172.2	174.7	177.0	180.1	181.1	181.6	182.0	181.7	180.8	178.5
58.5°	168.5	170.1	172.7	175.1	178.1	179.2	179.6	180.0	179.8	178.7	176.3
59°	166.5	168.3	170.8	173.2	176.3	177.2	177.7	178.1	177.9	176.9	174.4
59.5°	164.5	166.3	168.7	171.2	174.4	175.4	175.7	176.1	176.0	174.9	172.5
60°	162.6	164.3	166.9	169.3	172.5	173.5	173.8	174.2	174.0	172.9	170.7
60.5°	160.8	162.4	164.9	167.3	170.5	171.4	171.8	172.2	172.0	170.9	168.7
61°	158.9	160.6	163.0	165.4	168.5	169.4	169.9	170.3	170.1	169.0	166.7
61.5°	156.9	158.5	161.2	163.6	166.6	167.4	167.8	168.3	168.1	167.0	164.8
62°	155.0	156.6	159.2	161.8	164.7	165.6	165.9	166.4	166.2	165.1	162.9
62.5°	153.0	154.6	157.2	159.8	162.7	163.7	164.0	164.4	164.3	163.1	161.2
63°	151.1	152.7	155.2	157.8	160.9	161.7	162.0	162.4	162.4	161.3	159.0
63.5°	149.0	150.6	153.3	156.0	159.0	159.9	160.2	160.6	160.4	159.3	157.1
64°	147.0	148.7	151.3	154.0	157.1	158.0	158.3	158.7	158.6	157.4	155.1
64.5°	145.1	146.8	149.4	152.0	155.1	156.0	156.3	156.8	156.6	155.5	153.1
65°	143.1	144.8	147.4	150.1	153.2	154.1	154.3	154.8	154.7	153.6	151.2
65.5°	141.3	142.9	145.4	148.1	151.3	152.1	152.4	152.8	152.7	151.6	149.3
66°	139.3	140.8	143.4	146.1	149.4	150.2	150.4	150.8	150.8	149.5	147.3
66.5°	137.4	139.0	141.5	144.2	147.4	148.3	148.4	148.9	148.8	147.6	145.3
67°	135.5	137.0	139.6	142.4	145.5	146.4	146.5	147.0	146.8	145.8	143.5



TEST NUMBER: P601022
 CATALOG NUMBER: FM119S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	133.5	135.2	137.6	140.4	143.7	144.4	144.7	145.1	144.9	143.9	141.7
68°	131.6	133.2	135.9	138.4	141.7	142.4	142.7	143.1	143.1	141.9	139.5
68.5°	129.8	131.4	134.0	136.5	139.7	140.5	140.7	141.1	141.0	139.9	137.5
69°	127.8	129.4	132.0	134.6	137.8	138.6	138.8	139.2	139.1	138.0	135.7
69.5°	126.1	127.6	130.1	132.8	135.9	136.7	136.9	137.2	137.1	136.1	133.6
70°	124.2	125.9	128.2	130.9	134.0	134.7	135.0	135.4	135.3	134.1	131.8
70.5°	122.4	123.9	126.5	129.0	132.1	132.9	133.0	133.4	133.4	132.3	130.0
71°	120.6	122.0	124.6	127.3	130.3	130.9	131.2	131.5	131.4	130.4	128.1
71.5°	118.7	120.3	122.7	125.4	128.7	129.0	129.2	129.6	129.6	128.4	126.3
72°	116.9	118.4	120.9	123.5	126.7	127.2	127.4	127.7	127.7	126.6	124.1
72.5°	115.1	116.6	119.2	121.7	124.1	125.5	125.6	126.0	126.0	124.7	122.4
73°	113.2	114.8	117.3	119.9	122.7	123.6	123.7	124.1	124.1	122.9	120.7
73.5°	111.5	113.1	115.4	118.0	121.0	121.9	121.9	122.3	122.2	121.1	118.8
74°	109.7	111.2	113.7	116.3	119.3	120.0	120.1	120.5	120.4	119.2	117.0
74.5°	107.9	109.6	111.9	114.5	117.6	118.1	118.2	118.7	118.6	117.4	115.2
75°	106.2	107.7	110.1	112.6	115.7	116.4	116.5	116.8	116.7	115.5	113.4
75.5°	104.5	106.0	108.3	110.9	113.9	114.6	114.6	115.0	114.8	113.7	111.5
76°	102.9	104.3	106.6	109.2	112.1	112.8	112.9	113.2	113.1	112.0	109.6
76.5°	101.1	102.6	104.9	107.4	110.3	111.0	111.1	111.5	111.2	110.1	108.0
77°	99.5	100.9	103.1	105.7	108.8	109.3	109.3	109.7	109.6	108.3	106.1
77.5°	97.8	99.2	101.5	104.1	106.9	107.5	107.7	107.9	107.7	106.6	104.6
78°	96.1	97.5	99.9	102.3	105.1	105.8	105.9	106.1	106.0	104.9	102.7
78.5°	94.6	95.9	98.2	100.6	103.5	104.0	104.2	104.5	104.4	103.2	101.2
79°	93.0	94.3	96.6	99.0	101.7	102.3	102.5	102.7	102.6	101.3	99.4
79.5°	91.6	92.8	94.9	97.3	100.0	100.6	100.8	101.0	100.9	99.6	97.8
80°	89.9	91.3	93.3	95.7	98.3	99.0	99.0	99.4	99.2	98.0	96.1
80.5°	88.4	89.8	91.8	94.0	96.7	97.3	97.4	97.7	97.5	96.2	94.3
81°	86.9	88.2	90.4	92.6	95.0	95.8	95.8	96.1	95.9	94.6	92.6
81.5°	85.3	86.6	88.7	91.1	93.5	94.0	94.1	94.4	94.1	92.9	91.3
82°	83.8	85.1	87.2	89.4	91.9	92.4	92.5	92.7	92.5	91.5	89.6
82.5°	82.4	83.6	85.6	87.9	90.4	90.9	91.2	91.4	91.1	89.9	88.1
83°	80.9	82.2	84.1	86.3	88.8	89.4	89.5	89.7	89.5	88.3	86.5
83.5°	79.4	80.7	82.7	84.8	87.3	87.9	88.0	88.2	87.9	86.8	84.9
84°	77.9	79.3	81.1	83.3	85.7	86.3	86.3	86.6	86.3	85.1	83.4
84.5°	76.5	77.9	79.7	81.9	84.1	84.7	84.8	85.1	84.7	83.6	81.9
85°	75.1	76.4	78.3	80.3	82.6	83.2	83.3	83.5	83.2	82.0	80.2
85.5°	73.8	75.1	76.9	79.0	81.1	81.8	81.8	82.1	81.7	80.5	78.8
86°	72.5	73.7	75.4	77.5	79.7	80.2	80.3	80.6	80.2	79.0	77.3
86.5°	71.1	72.4	74.1	76.1	78.2	78.7	78.9	79.1	78.7	77.5	76.0
87°	69.8	71.0	72.7	74.8	76.7	77.3	77.4	77.6	77.3	76.0	74.4
87.5°	68.6	69.8	71.3	73.4	75.3	75.8	76.0	76.2	75.7	74.6	73.1
88°	67.3	68.5	70.1	72.0	74.0	74.4	74.5	74.7	74.3	73.1	71.6
88.5°	66.0	67.1	68.8	70.7	72.5	73.1	73.2	73.4	73.0	71.8	70.2
89°	64.7	65.9	67.5	69.3	71.2	71.7	71.8	71.9	71.6	70.4	68.9
89.5°	63.5	64.7	66.3	68.1	69.8	70.4	70.4	70.6	70.3	69.0	67.6



TEST NUMBER: P601022
 CATALOG NUMBER: FM119S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	62.3	63.4	65.1	66.7	68.6	69.0	69.1	69.2	68.9	67.8	66.2
90.5°	61.1	62.3	63.9	65.5	67.2	67.7	67.8	67.9	67.6	66.4	65.0
91°	59.9	61.1	62.6	64.3	65.9	66.4	66.6	66.7	66.2	65.3	63.6
91.5°	58.8	59.9	61.4	63.1	64.6	65.1	65.2	65.4	64.9	63.5	62.2
92°	57.8	58.8	60.3	61.9	63.3	63.8	63.9	64.1	63.6	62.5	61.3
92.5°	56.7	57.8	59.2	60.7	62.1	62.5	62.6	62.8	62.4	61.3	60.1
93°	55.7	56.7	58.1	59.5	60.9	61.3	61.5	61.6	61.2	60.1	58.8
93.5°	54.6	55.7	57.1	58.4	59.8	60.2	60.2	60.4	60.0	59.0	57.6
94°	53.6	54.6	56.0	57.5	58.6	59.0	59.1	59.3	58.8	57.8	56.8
94.5°	52.5	53.6	54.9	56.4	57.5	57.9	58.0	58.1	57.7	57.0	55.5
95°	51.6	52.6	53.9	55.3	56.4	57.0	57.0	57.0	56.6	55.7	54.4
95.5°	50.5	51.6	53.1	54.2	55.2	55.7	55.8	55.8	55.6	54.5	53.4
96°	49.6	50.6	51.9	53.3	54.1	54.6	54.7	54.8	54.4	53.5	52.5
96.5°	48.7	49.7	50.9	52.2	53.2	53.6	53.6	53.6	53.3	52.5	51.4
97°	47.8	48.7	50.0	51.2	52.4	52.5	52.6	52.7	52.5	51.4	50.2
97.5°	46.8	47.9	49.0	50.1	51.3	51.5	51.6	51.4	51.3	50.3	49.2
98°	46.0	46.9	48.1	49.2	50.1	50.4	50.5	50.5	50.3	49.3	48.2
98.5°	45.1	46.1	47.2	48.3	49.3	49.4	49.5	49.6	49.2	48.3	47.2
99°	44.3	45.2	46.3	47.4	48.2	48.5	48.5	48.6	48.3	47.4	46.2
99.5°	43.5	44.4	45.4	46.5	47.2	47.5	47.8	47.6	47.3	46.7	45.4
100°	42.6	43.6	44.6	45.6	46.3	46.9	46.7	46.6	46.4	45.5	44.4
100.5°	41.9	42.7	43.8	44.7	45.4	45.7	45.7	46.0	45.5	44.7	43.7
101°	41.1	41.9	42.9	43.9	44.5	44.9	44.6	44.9	44.7	43.9	42.8
101.5°	40.4	41.2	42.1	43.1	43.7	43.9	44.0	43.9	43.8	43.1	42.0
102°	39.6	40.4	41.4	42.2	42.9	43.1	43.2	43.1	42.8	42.1	41.0
102.5°	38.8	39.6	40.6	41.6	41.9	42.3	42.1	42.5	42.0	41.4	40.4
103°	38.2	39.2	39.7	40.7	41.2	41.5	41.6	41.4	41.2	40.6	39.6
103.5°	37.5	38.4	39.2	40.0	40.6	40.7	40.7	41.0	40.5	39.7	38.8
104°	36.9	37.7	38.6	39.3	39.7	40.0	40.0	40.1	39.7	38.9	38.2
104.5°	36.2	37.1	37.9	38.5	38.9	39.6	39.5	39.4	39.4	38.1	37.4
105°	35.6	36.5	37.2	37.9	38.3	38.5	38.5	38.6	38.2	37.5	36.7
105.5°	35.0	35.9	36.6	37.2	37.6	37.8	37.8	37.6	37.5	36.8	36.0
106°	34.4	35.2	36.0	36.6	36.9	37.3	37.2	37.1	36.7	36.3	35.5
106.5°	33.8	34.7	35.5	36.1	36.2	36.5	36.6	36.4	36.2	35.5	34.9
107°	33.3	34.1	34.9	35.4	35.6	35.6	36.0	35.7	35.5	35.1	34.1
107.5°	32.8	33.5	34.2	34.9	35.1	35.4	35.3	35.2	35.0	34.3	33.5
108°	32.3	32.9	33.7	34.2	34.3	34.6	34.7	34.6	34.3	33.7	32.9
108.5°	31.8	32.4	33.2	33.7	33.8	34.1	34.1	34.1	33.8	33.3	32.4
109°	31.4	31.9	32.6	33.2	33.1	33.5	33.5	33.4	33.4	32.8	32.1
109.5°	30.8	31.5	32.1	32.6	32.6	33.0	33.0	33.0	32.7	32.1	31.3
110°	30.4	30.9	31.7	32.1	32.0	32.4	32.4	32.3	32.0	31.4	30.7
110.5°	30.0	30.5	31.2	31.6	31.5	31.8	32.0	31.8	31.4	30.9	30.3
111°	29.6	30.0	30.7	31.2	31.0	31.3	31.4	31.3	31.0	30.6	29.8
111.5°	29.1	29.6	30.3	30.7	30.6	31.0	30.9	30.9	30.6	30.0	29.2
112°	28.8	29.2	29.8	30.3	30.1	30.4	30.5	30.3	30.1	29.7	28.8



TEST NUMBER: P601022
 CATALOG NUMBER: FM119S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	28.5	28.8	29.5	29.9	29.8	29.9	30.0	29.8	29.8	29.1	28.5
113°	28.1	28.4	29.1	29.5	29.2	29.8	29.7	29.4	29.1	28.7	27.9
113.5°	27.7	28.0	28.6	29.0	28.7	29.0	29.1	28.9	28.7	28.2	27.7
114°	27.4	27.7	28.3	28.7	28.4	28.8	28.7	28.6	28.3	27.8	27.1
114.5°	27.1	27.3	27.9	28.3	28.0	28.2	28.2	28.1	27.9	27.5	26.7
115°	26.7	27.0	27.6	27.9	27.7	27.8	27.9	27.7	27.7	27.0	26.7
115.5°	26.4	26.6	27.3	27.6	27.2	27.6	27.5	27.5	27.2	26.6	26.2
116°	26.0	26.3	27.0	27.4	26.9	27.0	27.1	26.9	26.8	26.6	25.6
116.5°	25.7	26.0	26.6	26.9	26.7	26.7	26.9	26.7	26.6	26.0	25.5
117°	25.4	25.7	26.3	26.7	26.4	26.7	26.7	26.6	26.1	25.7	25.0
117.5°	25.2	25.4	26.0	26.3	25.8	26.3	26.3	25.9	25.8	25.4	24.6
118°	24.9	25.1	25.7	26.1	25.5	25.7	25.8	25.6	25.4	25.1	24.4
118.5°	24.7	24.8	25.4	25.8	25.4	25.5	25.5	25.4	25.3	24.7	24.2
119°	24.4	24.5	25.2	25.4	24.9	25.5	25.3	25.0	24.8	24.5	23.7
119.5°	24.2	24.3	24.9	25.2	24.6	24.9	24.9	24.7	24.5	24.3	23.5
120°	24.0	24.1	24.6	24.9	24.4	24.6	24.6	24.4	24.3	24.1	23.3
120.5°	23.7	23.9	24.4	24.7	24.2	24.4	24.4	24.3	24.2	23.7	23.2
121°	23.6	23.6	24.2	24.4	23.9	24.3	24.2	23.9	23.7	23.4	22.8
121.5°	23.5	23.5	24.0	24.2	23.6	23.8	23.8	23.7	23.5	23.3	22.5
122°	23.4	23.5	23.8	24.1	23.4	23.6	23.6	23.5	23.4	23.4	22.5
122.5°	23.3	23.3	23.6	23.9	23.3	23.4	23.3	23.2	23.2	22.8	22.3
123°	23.2	23.2	23.5	23.7	23.1	23.3	23.3	23.2	22.8	22.6	22.3
123.5°	23.1	23.0	23.5	23.5	22.8	23.1	23.0	22.8	22.6	22.6	21.9
124°	23.0	22.9	23.3	23.5	22.6	22.8	22.8	22.6	22.6	22.4	21.8
124.5°	22.9	22.8	23.2	23.5	22.5	22.6	22.6	22.5	22.4	22.4	21.6
125°	22.9	22.6	23.1	23.3	22.5	22.5	22.5	22.5	22.3	22.2	21.4
125.5°	22.8	22.5	22.9	23.2	22.4	22.5	22.5	22.3	22.2	21.9	21.4
126°	22.6	22.4	22.9	23.1	22.5	22.4	22.5	22.3	22.0	21.8	21.2
126.5°	22.6	22.4	22.8	23.1	22.3	22.4	22.4	22.0	21.8	21.7	21.2
127°	22.5	22.2	22.7	22.9	22.3	22.3	22.3	22.0	21.8	21.7	21.3
127.5°	22.4	22.2	22.6	22.9	22.3	22.3	22.2	22.0	21.8	21.7	21.2
128°	22.4	22.2	22.5	22.8	22.3	22.3	22.1	21.9	21.8	21.7	21.2
128.5°	22.4	22.2	22.5	22.7	22.3	22.3	22.1	21.9	21.8	21.6	21.2
129°	22.3	22.1	22.5	22.7	22.3	22.3	22.1	21.9	21.8	21.6	21.2
129.5°	22.3	22.1	22.5	22.6	22.3	22.3	22.1	21.9	21.8	21.6	21.2
130°	22.3	22.1	22.3	22.6	22.3	22.3	22.1	21.9	21.8	21.6	21.2
130.5°	22.3	22.1	22.3	22.5	22.3	22.3	22.1	21.9	21.8	21.6	21.2
131°	22.3	22.1	22.3	22.5	22.3	22.3	22.1	21.9	21.8	21.6	21.2
131.5°	22.2	22.1	22.3	22.5	22.3	22.3	22.1	21.9	21.8	21.6	21.2
132°	22.2	22.1	22.3	22.5	22.3	22.3	22.1	22.0	21.8	21.6	21.2
132.5°	22.2	22.1	22.3	22.5	22.3	22.3	22.1	22.0	21.8	21.6	21.2
133°	22.2	22.1	22.3	22.5	22.3	22.3	22.1	22.0	21.8	21.7	21.2
133.5°	22.2	22.1	22.3	22.5	22.3	22.3	22.1	22.1	21.8	21.7	21.3
134°	22.2	22.2	22.3	22.5	22.4	22.4	22.2	22.1	21.8	21.7	21.3
134.5°	22.2	22.2	22.3	22.5	22.4	22.4	22.3	22.1	21.9	21.8	21.3



TEST NUMBER: P601022
 CATALOG NUMBER: FM119S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	22.2	22.3	22.3	22.5	22.5	22.5	22.3	22.1	21.8	21.9	21.4
135.5°	22.3	22.3	22.3	22.5	22.6	22.5	22.3	22.1	22.0	21.8	21.4
136°	22.2	22.4	22.4	22.5	22.7	22.5	22.5	22.3	22.0	21.9	21.5
136.5°	22.2	22.4	22.4	22.5	22.7	22.6	22.5	22.3	22.1	22.0	21.6
137°	22.4	22.5	22.5	22.6	22.8	22.7	22.7	22.3	22.0	22.0	21.7
137.5°	22.4	22.5	22.5	22.5	22.8	22.8	22.7	22.5	22.2	22.2	21.8
138°	22.4	22.6	22.5	22.5	22.9	22.9	22.9	22.5	22.3	22.3	21.8
138.5°	22.4	22.6	22.5	22.7	23.1	23.0	22.9	22.7	22.4	22.4	22.1
139°	22.6	22.8	22.6	22.8	23.2	23.1	23.0	22.7	22.6	22.5	22.1
139.5°	22.5	22.9	22.7	23.0	23.3	23.1	23.2	22.9	22.6	22.5	22.2
140°	22.7	23.2	22.9	23.3	23.4	23.3	23.3	23.0	22.7	22.6	22.4
140.5°	22.9	23.2	23.3	23.4	23.5	23.4	23.3	23.1	22.9	22.8	22.5
141°	23.3	23.2	23.3	23.4	23.5	23.4	23.4	23.3	23.0	22.8	22.6
141.5°	23.4	23.5	23.4	23.4	23.6	23.5	23.4	23.3	23.2	23.0	22.6
142°	23.4	23.6	23.4	23.5	23.7	23.6	23.5	23.5	23.3	23.2	22.8
142.5°	23.5	23.7	23.4	23.6	23.9	23.7	23.6	23.5	23.4	23.2	22.9
143°	23.7	24.2	23.4	23.7	24.0	23.8	23.6	23.6	23.5	23.4	22.9
143.5°	23.9	24.3	23.6	23.9	24.2	24.0	23.8	23.7	23.6	23.4	23.1
144°	24.3	24.4	23.7	24.1	24.3	24.0	24.0	23.9	23.7	23.5	23.1
144.5°	24.3	24.5	23.9	24.4	24.4	24.2	24.0	23.9	23.9	23.7	23.3
145°	24.3	24.7	24.2	24.4	24.6	24.4	24.2	24.2	24.0	23.8	23.4
145.5°	24.5	24.9	24.4	24.5	24.8	24.6	24.3	24.2	24.2	23.9	23.5
146°	24.7	25.1	24.4	24.6	24.9	24.7	24.5	24.4	24.3	24.0	23.5
146.5°	24.8	25.5	24.5	24.7	25.1	24.8	24.6	24.6	24.5	24.1	23.6
147°	24.9	25.5	24.6	24.8	25.2	25.1	24.8	24.7	24.5	24.3	23.7
147.5°	25.3	25.4	24.7	24.8	25.3	25.2	24.9	24.9	24.6	24.3	23.8
148°	25.4	25.5	24.8	25.0	25.5	25.4	25.0	24.9	24.7	24.3	23.9
148.5°	25.6	25.5	24.8	25.2	25.6	25.5	25.0	24.9	24.9	24.5	23.8
149°	25.6	25.7	24.9	25.2	25.7	25.6	25.0	24.9	24.9	24.5	23.8
149.5°	25.6	25.7	25.0	25.4	25.7	25.6	25.0	24.9	24.9	24.5	23.8
150°	25.8	25.7	25.2	25.4	25.7	25.6	25.0	24.9	24.9	24.5	23.8
150.5°	25.8	26.0	25.4	25.6	25.7	25.6	25.0	24.9	24.9	24.5	23.8
151°	25.8	26.1	25.5	25.6	25.7	25.6	25.0	24.9	24.9	24.5	23.8
151.5°	25.8	26.2	25.6	25.6	25.7	25.6	25.0	24.9	24.9	24.4	23.8
152°	25.8	26.2	25.6	25.6	25.8	25.7	25.0	25.0	24.9	24.4	23.8
152.5°	25.8	26.2	25.6	25.7	25.8	25.6	25.0	25.0	24.9	24.4	23.8
153°	25.8	26.2	25.6	25.7	25.7	25.6	25.0	24.8	24.7	24.4	23.9
153.5°	25.8	26.2	25.6	25.7	25.7	25.4	25.0	24.8	24.7	24.4	23.9
154°	25.8	26.2	25.6	25.7	25.4	25.3	24.9	24.8	24.7	24.4	23.7
154.5°	25.8	26.1	25.5	25.6	25.3	25.1	24.8	24.6	24.5	24.3	23.7
155°	25.8	26.0	25.4	25.5	25.1	25.0	24.7	24.5	24.5	24.3	23.6
155.5°	25.9	25.8	25.3	25.3	24.8	24.9	24.7	24.6	24.5	24.3	23.6
156°	25.9	25.8	25.2	25.3	24.7	24.7	24.6	24.4	24.4	23.9	23.5
156.5°	25.8	25.6	25.1	25.2	24.6	24.6	24.4	24.4	24.4	23.8	23.5
157°	25.6	25.5	25.0	25.0	24.5	24.5	24.4	24.5	24.4	23.7	23.3



TEST NUMBER: P601022
 CATALOG NUMBER: FM119S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	25.6	25.5	24.9	25.0	24.5	24.5	24.4	24.4	24.4	23.7	23.3
158°	25.6	25.4	24.8	24.9	24.4	24.6	24.4	24.4	24.1	23.6	23.3
158.5°	25.5	25.1	24.8	24.7	24.4	24.4	24.3	24.2	23.9	23.5	23.3
159°	25.3	25.1	24.6	24.6	24.2	24.3	24.0	24.1	23.8	23.4	23.1
159.5°	25.2	24.9	24.5	24.4	23.9	24.1	23.8	23.8	23.7	23.4	22.7
160°	25.2	24.9	24.4	24.3	23.9	23.9	23.7	23.8	23.7	23.3	22.7
160.5°	25.1	24.7	24.3	24.2	23.6	23.8	23.6	23.7	23.6	23.0	22.6
161°	24.9	24.7	24.2	24.0	23.5	23.6	23.5	23.7	23.4	22.8	22.6
161.5°	24.7	24.5	24.1	24.0	23.4	23.4	23.3	23.5	23.4	22.8	22.5
162°	24.5	24.5	23.9	23.8	23.5	23.3	23.3	23.4	23.4	22.7	22.4
162.5°	24.4	24.2	23.8	23.7	23.3	23.3	23.3	23.5	23.2	22.5	22.3
163°	24.2	24.1	23.6	23.6	22.9	23.1	23.2	23.5	22.8	22.6	22.4
163.5°	23.9	23.9	23.6	23.5	22.7	22.8	23.1	23.3	22.6	22.4	22.3
164°	23.7	23.7	23.5	23.5	22.6	22.6	22.9	23.1	22.5	22.4	22.2
164.5°	23.6	23.5	23.5	23.4	22.5	22.5	22.8	22.8	22.4	22.3	21.9
165°	23.5	23.4	23.4	23.4	22.5	22.5	22.6	22.6	22.4	22.0	21.8
165.5°	23.4	23.3	23.3	23.2	22.4	22.4	22.5	22.6	22.4	21.8	21.8
166°	23.2	23.2	23.3	23.1	22.3	22.4	22.5	22.6	22.3	21.8	21.7
166.5°	23.0	23.1	23.1	23.0	22.4	22.4	22.5	22.5	21.8	21.6	21.6
167°	22.9	23.0	22.9	22.8	22.3	22.3	22.3	22.5	21.8	21.5	21.5
167.5°	22.7	22.8	22.7	22.7	21.9	21.9	22.1	22.5	21.5	21.3	21.3
168°	22.5	22.6	22.6	22.5	21.8	21.8	21.8	22.3	21.3	21.2	21.2
168.5°	22.4	22.5	22.4	22.3	21.7	21.6	21.6	22.0	21.1	21.2	21.2
169°	22.2	22.3	22.3	22.1	21.6	21.6	21.4	21.6	21.1	21.2	21.2
169.5°	22.1	22.2	22.1	21.9	21.4	21.4	21.2	21.2	20.7	20.9	20.8
170°	21.9	22.0	21.9	21.8	21.3	21.2	21.2	21.1	20.5	20.5	20.6
170.5°	21.8	21.8	21.7	21.6	21.2	21.2	21.1	20.6	20.3	20.4	20.4
171°	21.5	21.7	21.6	21.4	21.3	21.2	20.6	20.3	20.1	20.3	20.3
171.5°	21.3	21.5	21.4	21.2	21.0	21.0	20.6	20.0	20.0	20.1	20.1
172°	21.1	21.2	21.1	21.0	20.6	20.6	20.3	19.6	19.9	20.0	20.0
172.5°	20.8	20.9	20.8	20.8	20.3	20.4	19.9	19.3	19.4	19.7	19.8
173°	20.5	20.5	20.4	20.4	20.0	20.1	19.5	19.1	19.0	19.2	19.4
173.5°	20.1	20.3	20.1	20.1	19.7	19.9	19.3	19.1	18.9	19.2	19.4
174°	20.1	20.2	20.1	20.1	19.7	19.9	19.3	19.1	19.0	19.2	19.5
174.5°	21.4	21.8	21.7	21.4	20.2	20.0	19.5	19.3	19.2	19.5	19.8
175°	22.4	22.8	22.8	22.6	21.7	21.2	20.8	20.9	20.7	20.9	21.2
175.5°	22.9	23.4	23.4	23.3	23.1	22.8	22.5	22.5	22.5	22.5	22.9
176°	23.3	23.7	23.7	23.4	23.6	23.5	23.4	23.4	23.3	23.3	23.6
176.5°	23.6	24.2	24.1	23.8	24.0	23.9	23.8	23.8	23.7	23.6	24.1
177°	24.3	24.3	24.4	24.4	24.4	24.4	24.3	24.3	24.3	24.2	24.5
177.5°	24.5	24.5	24.8	24.5	24.9	24.8	24.8	24.8	24.8	24.7	25.0
178°	24.7	24.7	24.9	24.8	24.9	25.0	25.0	24.8	25.1	25.1	25.2
178.5°	24.8	24.9	24.9	24.8	24.9	25.0	24.9	24.8	25.1	25.2	25.2
179°	24.9	24.9	24.9	25.0	24.9	24.9	25.0	24.8	25.1	25.2	25.2
179.5°	25.1	25.1	25.0	25.3	24.9	24.9	25.0	24.8	25.1	25.2	25.2



TEST NUMBER: P601022
CATALOG NUMBER: FM119S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4



TEST NUMBER: P601022
 CATALOG NUMBER: FM119S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	313.7	313.7	313.7	313.7	313.7	313.7
0.5°	313.8	313.7	313.7	313.7	313.7	313.7
1°	313.6	313.7	313.7	313.7	313.8	313.6
1.5°	313.6	313.7	313.8	313.7	313.8	313.6
2°	313.5	313.8	313.8	313.7	313.7	313.5
2.5°	313.5	313.8	313.6	313.6	313.5	313.3
3°	313.3	313.6	313.5	313.4	313.3	313.0
3.5°	313.3	313.5	313.1	313.2	313.1	312.8
4°	313.1	313.3	313.0	312.9	312.8	312.6
4.5°	312.9	313.1	312.8	312.6	312.5	312.4
5°	312.5	312.8	312.5	312.3	312.3	312.0
5.5°	312.4	312.4	312.2	312.0	312.0	311.4
6°	312.0	312.2	312.0	311.7	311.6	311.3
6.5°	311.8	311.8	311.4	311.3	311.2	311.1
7°	311.5	311.5	311.3	310.9	310.8	310.6
7.5°	311.1	311.1	310.9	310.6	310.4	309.9
8°	310.8	310.7	310.4	310.1	310.0	309.7
8.5°	310.3	310.3	309.9	309.7	309.5	309.3
9°	310.0	309.9	309.5	309.1	309.1	309.0
9.5°	309.5	309.4	308.9	308.7	308.6	308.5
10°	309.1	308.9	308.4	308.1	308.1	307.9
10.5°	308.6	308.5	308.0	307.6	307.5	307.3
11°	308.2	307.8	307.3	307.1	306.9	306.8
11.5°	307.7	307.3	306.8	306.4	306.4	306.1
12°	307.1	306.7	306.1	305.8	305.7	305.5
12.5°	306.6	306.1	305.5	305.1	305.0	304.9
13°	305.9	305.5	304.9	304.5	304.4	304.5
13.5°	305.4	304.8	304.2	303.8	303.6	303.5
14°	304.8	304.2	303.5	303.1	303.0	302.8
14.5°	304.1	303.6	302.8	302.3	302.3	302.3
15°	303.4	302.7	302.1	301.6	301.5	301.7
15.5°	302.7	302.0	301.4	301.1	300.9	300.8
16°	302.0	301.3	300.5	300.2	300.2	300.0
16.5°	301.2	300.6	299.9	299.3	299.4	299.3
17°	300.6	299.8	299.1	298.5	298.5	298.3
17.5°	299.9	298.9	298.2	297.6	297.6	297.4
18°	299.1	298.1	297.3	296.8	296.8	296.6
18.5°	298.3	297.2	296.5	295.9	295.8	295.6
19°	297.3	296.2	295.4	295.0	294.9	294.7
19.5°	296.6	295.3	294.6	294.1	293.9	293.8
20°	295.7	294.4	293.6	293.1	292.9	293.0
20.5°	294.8	293.4	292.6	292.1	291.9	292.0
21°	293.6	292.4	291.6	291.1	291.0	290.9
21.5°	292.7	291.4	290.5	290.0	289.8	289.9
22°	291.7	290.3	289.5	288.9	288.8	288.8



TEST NUMBER: P601022
 CATALOG NUMBER: FM119S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	290.6	289.3	288.4	287.9	287.7	287.7
23°	289.6	288.2	287.3	286.8	286.5	286.6
23.5°	288.5	287.2	286.2	285.6	285.4	285.5
24°	287.4	286.1	285.1	284.5	284.2	284.4
24.5°	286.3	284.9	283.9	283.3	283.2	283.2
25°	285.2	283.7	282.6	282.1	281.9	282.0
25.5°	284.1	282.5	281.5	280.9	280.6	280.7
26°	282.9	281.3	280.3	279.7	279.4	279.4
26.5°	281.8	280.1	279.2	278.4	278.2	278.3
27°	280.5	278.8	277.7	277.1	276.9	276.9
27.5°	279.1	277.5	276.4	275.8	275.5	275.7
28°	278.0	276.2	275.2	274.4	274.4	274.4
28.5°	276.7	274.9	273.8	273.1	272.9	273.1
29°	275.4	273.6	272.5	271.8	271.3	271.6
29.5°	274.1	272.1	270.7	270.4	270.0	270.4
30°	272.7	270.8	269.7	269.1	268.7	268.8
30.5°	271.3	269.4	268.0	267.8	267.3	267.5
31°	270.0	268.0	267.0	266.3	266.0	266.2
31.5°	268.6	266.6	265.4	264.7	264.7	264.7
32°	267.2	265.2	264.1	263.4	263.2	263.4
32.5°	265.9	263.8	262.7	261.8	261.7	261.8
33°	264.4	262.3	261.0	260.4	260.0	260.3
33.5°	262.9	260.7	259.5	258.8	258.5	258.8
34°	261.4	259.2	257.9	257.2	257.0	257.2
34.5°	260.0	257.6	256.4	255.6	255.4	255.7
35°	258.3	256.2	254.8	254.0	253.9	254.1
35.5°	256.9	254.5	253.3	252.5	252.2	252.5
36°	255.3	252.9	251.7	250.8	250.6	250.9
36.5°	253.6	251.2	250.0	249.2	249.0	249.2
37°	252.1	249.7	248.4	247.6	247.5	247.5
37.5°	250.4	248.0	246.7	246.0	245.8	245.8
38°	248.9	246.3	245.0	244.3	244.0	244.2
38.5°	247.1	244.7	243.4	242.5	242.3	242.5
39°	245.6	243.0	241.6	240.8	240.6	240.9
39.5°	243.8	241.2	240.0	239.2	238.9	239.2
40°	242.1	239.5	238.2	237.4	237.3	237.4
40.5°	240.4	237.7	236.5	235.7	235.5	235.7
41°	238.8	236.0	234.8	233.9	233.7	233.9
41.5°	237.0	234.3	233.0	232.2	231.9	232.2
42°	235.2	232.6	231.4	230.5	230.3	230.5
42.5°	233.5	230.9	229.6	228.7	228.4	228.8
43°	231.7	229.2	227.8	227.0	226.9	227.0
43.5°	230.1	227.3	226.0	225.2	225.0	225.2
44°	228.3	225.5	224.1	223.3	223.1	223.4
44.5°	226.5	223.6	222.3	221.5	221.4	221.5



TEST NUMBER: P601022
 CATALOG NUMBER: FM119S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	224.8	221.8	220.5	219.8	219.4	219.8
45.5°	222.9	220.1	218.6	217.9	217.7	218.1
46°	221.3	218.3	216.9	215.9	215.8	216.2
46.5°	219.4	216.3	215.1	214.3	214.0	214.2
47°	217.6	214.4	213.1	212.4	212.1	212.4
47.5°	215.7	212.6	211.3	210.5	210.2	210.6
48°	213.9	210.7	209.4	208.6	208.3	208.7
48.5°	211.9	208.9	207.5	206.7	206.5	206.8
49°	210.2	207.0	205.6	204.9	204.5	205.0
49.5°	208.3	205.1	203.7	202.9	202.7	203.0
50°	206.4	203.2	201.8	201.1	200.8	201.1
50.5°	204.6	201.3	200.0	199.1	198.9	199.2
51°	202.6	199.4	198.1	197.3	197.0	197.4
51.5°	200.8	197.5	196.4	195.4	195.2	195.5
52°	198.9	195.8	194.4	193.6	193.3	193.7
52.5°	196.9	193.8	192.5	191.6	191.4	191.8
53°	195.1	191.9	190.6	189.7	189.5	189.9
53.5°	193.2	190.0	188.6	187.8	187.6	188.0
54°	191.4	188.1	186.8	185.8	185.6	186.0
54.5°	189.5	186.2	184.8	184.0	183.7	184.0
55°	187.5	184.3	182.8	182.1	181.7	182.2
55.5°	185.5	182.3	180.9	180.1	179.8	180.1
56°	183.6	180.5	179.1	178.2	177.8	178.2
56.5°	181.7	178.4	177.0	176.1	175.8	176.3
57°	179.7	176.4	175.0	174.2	174.0	174.4
57.5°	177.7	174.5	173.0	172.2	171.9	172.2
58°	175.7	172.5	171.1	170.3	169.9	170.5
58.5°	173.8	170.6	169.2	168.3	168.0	168.5
59°	171.8	168.6	167.2	166.3	166.1	166.5
59.5°	169.9	166.6	165.3	164.3	164.1	164.5
60°	167.9	164.7	163.3	162.5	162.3	162.6
60.5°	165.9	162.7	161.5	160.6	160.3	160.8
61°	164.0	161.0	159.6	158.7	158.3	158.9
61.5°	162.0	158.9	157.6	156.7	156.3	156.9
62°	160.3	157.0	155.6	154.7	154.4	155.0
62.5°	158.3	155.1	153.6	152.7	152.4	153.0
63°	156.3	153.1	151.6	150.7	150.6	151.1
63.5°	154.4	151.2	149.7	148.8	148.5	149.0
64°	152.4	149.2	147.6	146.8	146.5	147.0
64.5°	150.4	147.3	145.7	144.8	144.6	145.1
65°	148.5	145.3	143.7	142.9	142.7	143.1
65.5°	146.5	143.3	141.8	141.0	140.7	141.3
66°	144.6	141.3	139.9	139.1	138.7	139.3
66.5°	142.6	139.4	137.9	137.1	136.9	137.4
67°	140.7	137.5	136.1	135.1	135.0	135.5



TEST NUMBER: P601022
 CATALOG NUMBER: FM119S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	138.9	135.6	134.1	133.2	133.0	133.5
68°	136.8	133.6	132.2	131.3	131.1	131.6
68.5°	134.9	131.7	130.2	129.4	129.2	129.8
69°	133.1	129.8	128.4	127.6	127.4	127.8
69.5°	131.2	128.0	126.6	125.7	125.6	126.1
70°	129.3	126.2	124.6	123.8	123.7	124.2
70.5°	127.4	124.4	122.9	122.0	121.8	122.4
71°	125.6	122.4	121.0	120.1	120.0	120.6
71.5°	123.8	120.7	119.1	118.3	118.2	118.7
72°	121.9	118.9	117.3	116.4	116.4	116.9
72.5°	120.0	117.0	115.6	114.6	114.6	115.1
73°	118.2	115.2	113.7	112.9	112.7	113.2
73.5°	116.3	113.4	112.0	111.1	111.0	111.5
74°	114.6	111.7	110.1	109.3	109.3	109.7
74.5°	112.8	110.0	108.5	107.6	107.5	107.9
75°	110.9	108.1	106.7	105.8	105.7	106.2
75.5°	109.2	106.5	105.1	104.2	104.0	104.5
76°	107.4	104.7	103.3	102.4	102.2	102.9
76.5°	105.7	103.0	101.5	100.6	100.5	101.1
77°	103.9	101.3	99.9	99.0	98.9	99.5
77.5°	102.3	99.6	98.1	97.4	97.3	97.8
78°	100.6	98.0	96.6	95.7	95.6	96.1
78.5°	98.9	96.3	94.9	94.1	94.0	94.6
79°	97.2	94.7	93.3	92.6	92.6	93.0
79.5°	95.6	93.2	91.8	91.1	91.0	91.6
80°	93.9	91.7	90.3	89.5	89.4	89.9
80.5°	92.4	90.1	88.7	87.9	87.9	88.4
81°	90.9	88.5	87.2	86.3	86.3	86.9
81.5°	89.4	87.0	85.7	84.8	84.9	85.3
82°	87.7	85.5	84.1	83.3	83.3	83.8
82.5°	86.1	83.9	82.7	81.8	81.7	82.4
83°	84.6	82.5	81.2	80.4	80.4	80.9
83.5°	83.2	80.9	79.6	78.8	78.8	79.4
84°	81.6	79.5	78.2	77.5	77.4	77.9
84.5°	80.1	78.1	76.8	76.1	76.0	76.5
85°	78.7	76.8	75.4	74.8	74.7	75.1
85.5°	77.2	75.3	74.0	73.2	73.2	73.8
86°	75.8	74.0	72.7	71.9	71.9	72.5
86.5°	74.4	72.6	71.2	70.6	70.6	71.1
87°	73.0	71.2	69.9	69.3	69.3	69.8
87.5°	71.5	69.9	68.7	67.9	68.0	68.6
88°	70.3	68.7	67.4	66.7	66.7	67.3
88.5°	68.8	67.4	66.1	65.4	65.4	66.0
89°	67.5	66.1	64.8	64.2	64.2	64.7
89.5°	66.2	64.8	63.6	63.0	63.0	63.5



TEST NUMBER: P601022
 CATALOG NUMBER: FM119S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	64.9	63.5	62.4	61.8	61.8	62.3
90.5°	63.6	62.3	61.2	60.6	60.6	61.1
91°	62.5	61.2	60.1	59.4	59.4	59.9
91.5°	61.3	60.0	58.9	58.3	58.3	58.8
92°	60.0	58.9	57.9	57.3	57.3	57.8
92.5°	58.8	57.8	56.8	56.1	56.3	56.7
93°	57.7	56.7	55.7	55.0	55.1	55.7
93.5°	56.8	55.7	54.6	54.0	54.0	54.6
94°	55.5	54.6	53.5	52.9	53.2	53.6
94.5°	54.2	53.5	52.6	52.1	51.9	52.5
95°	53.3	52.6	51.6	51.0	51.0	51.6
95.5°	52.4	51.5	50.6	50.0	49.9	50.5
96°	51.3	50.5	49.5	48.9	49.0	49.6
96.5°	50.2	49.5	48.7	48.1	48.1	48.7
97°	49.2	48.6	47.8	47.1	47.1	47.8
97.5°	48.2	47.7	46.9	46.2	46.2	46.8
98°	47.3	46.8	46.0	45.3	45.4	46.0
98.5°	46.4	45.9	45.1	44.4	44.5	45.1
99°	45.4	45.0	44.2	43.7	43.7	44.3
99.5°	44.5	44.2	43.4	42.8	42.8	43.5
100°	43.7	43.3	42.5	41.9	42.0	42.6
100.5°	42.7	42.5	41.7	41.2	41.3	41.9
101°	42.1	41.7	40.9	40.4	40.5	41.1
101.5°	40.9	40.9	40.3	39.7	39.7	40.4
102°	40.6	40.2	39.5	39.0	39.0	39.6
102.5°	39.6	39.3	38.7	38.1	38.3	38.8
103°	38.9	38.6	38.1	37.6	37.7	38.2
103.5°	38.0	37.9	37.4	37.0	36.8	37.5
104°	37.4	37.2	36.7	36.4	36.4	36.9
104.5°	36.4	36.5	35.8	35.8	35.8	36.2
105°	35.9	35.9	35.5	35.2	35.2	35.6
105.5°	35.4	35.3	34.9	34.6	34.6	35.0
106°	34.9	34.7	34.3	34.0	34.0	34.4
106.5°	34.1	34.0	33.8	33.5	33.5	33.8
107°	33.7	33.5	33.2	33.0	32.9	33.3
107.5°	33.0	32.9	32.6	32.5	32.4	32.8
108°	32.4	32.4	32.2	32.0	32.0	32.3
108.5°	31.8	31.8	31.6	31.6	31.4	31.8
109°	31.2	31.4	31.2	31.0	31.0	31.4
109.5°	30.7	30.8	30.7	30.6	30.5	30.8
110°	30.1	30.4	30.2	30.1	30.1	30.4
110.5°	29.7	29.9	29.8	29.7	29.7	30.0
111°	29.2	29.5	29.4	29.3	29.2	29.6
111.5°	28.8	29.0	28.9	28.9	28.8	29.1
112°	28.3	28.5	28.6	28.6	28.5	28.8



TEST NUMBER: P601022
 CATALOG NUMBER: FM119S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	27.8	28.2	28.2	28.2	28.1	28.5
113°	27.6	27.8	27.8	27.8	27.8	28.1
113.5°	27.0	27.4	27.5	27.6	27.4	27.7
114°	26.7	27.0	27.2	27.2	27.1	27.4
114.5°	26.5	26.8	26.8	26.9	26.7	27.1
115°	26.0	26.4	26.4	26.5	26.4	26.7
115.5°	25.5	26.2	26.2	26.3	26.1	26.4
116°	25.4	25.8	25.9	26.0	25.8	26.0
116.5°	24.9	25.5	25.6	25.7	25.4	25.7
117°	24.6	25.2	25.3	25.3	25.1	25.4
117.5°	24.4	24.9	25.0	25.1	24.8	25.2
118°	24.0	24.6	24.8	24.8	24.6	24.9
118.5°	23.7	24.4	24.5	24.6	24.3	24.7
119°	23.5	24.1	24.2	24.3	24.0	24.4
119.5°	23.3	24.0	24.0	24.0	23.8	24.2
120°	23.2	23.6	23.8	23.9	23.5	24.0
120.5°	22.7	23.6	23.6	23.6	23.5	23.7
121°	22.5	23.4	23.5	23.5	23.3	23.6
121.5°	22.5	23.2	23.3	23.3	23.1	23.5
122°	22.4	23.1	23.2	23.1	23.0	23.4
122.5°	22.4	22.9	23.1	23.0	22.7	23.3
123°	22.0	22.8	22.9	22.9	22.6	23.2
123.5°	21.9	22.7	22.8	22.7	22.5	23.1
124°	21.6	22.5	22.7	22.5	22.4	23.0
124.5°	21.6	22.5	22.6	22.3	22.4	22.9
125°	21.4	22.3	22.5	22.3	22.2	22.9
125.5°	21.5	22.3	22.4	22.1	22.1	22.8
126°	21.4	22.2	22.3	22.1	22.1	22.6
126.5°	21.4	22.0	22.3	21.9	22.0	22.6
127°	21.4	22.0	22.1	21.9	21.8	22.5
127.5°	21.4	21.9	22.1	21.9	21.9	22.4
128°	21.4	21.9	22.1	21.7	21.8	22.4
128.5°	21.4	21.8	22.0	21.8	21.7	22.4
129°	21.4	21.8	22.0	21.7	21.7	22.3
129.5°	21.4	21.9	22.0	21.7	21.7	22.3
130°	21.4	21.8	22.0	21.7	21.7	22.3
130.5°	21.4	21.8	22.0	21.7	21.7	22.3
131°	21.4	21.8	21.9	21.6	21.7	22.3
131.5°	21.4	21.8	21.9	21.6	21.7	22.2
132°	21.4	21.8	21.9	21.6	21.7	22.2
132.5°	21.5	21.8	21.9	21.6	21.7	22.2
133°	21.6	21.8	21.9	21.6	21.7	22.2
133.5°	21.7	21.8	21.9	21.6	21.7	22.2
134°	21.7	21.8	21.9	21.6	21.7	22.2
134.5°	21.8	21.8	21.9	21.6	21.7	22.2



TEST NUMBER: P601022
 CATALOG NUMBER: FM119S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	21.9	21.8	21.9	21.6	21.7	22.2
135.5°	21.9	21.8	21.9	21.6	21.7	22.3
136°	21.9	21.8	21.9	21.7	21.7	22.2
136.5°	22.1	21.8	21.9	21.7	21.7	22.2
137°	22.1	21.9	22.0	21.8	21.7	22.4
137.5°	22.2	22.1	22.0	21.9	21.8	22.4
138°	22.3	22.5	22.0	21.9	21.9	22.4
138.5°	22.5	22.4	22.3	22.2	22.2	22.4
139°	22.5	22.5	22.3	22.4	22.4	22.6
139.5°	22.7	22.5	22.5	22.4	22.4	22.5
140°	22.7	22.6	22.5	22.5	22.4	22.7
140.5°	22.7	22.5	22.6	22.5	22.5	22.9
141°	22.7	22.7	22.5	22.5	22.6	23.3
141.5°	22.8	22.9	22.7	22.6	22.7	23.4
142°	22.9	23.3	22.9	22.7	22.9	23.4
142.5°	22.9	23.4	23.2	22.9	23.3	23.5
143°	23.1	23.4	23.3	23.3	23.4	23.7
143.5°	23.1	23.5	23.3	23.4	23.4	23.9
144°	23.3	23.7	23.5	23.3	23.5	24.3
144.5°	23.5	23.8	23.7	23.4	23.6	24.3
145°	23.5	24.3	23.8	23.6	23.9	24.3
145.5°	23.7	24.4	23.8	23.8	24.1	24.5
146°	23.8	24.4	24.1	23.9	24.4	24.7
146.5°	24.0	24.6	24.4	24.2	24.4	24.8
147°	24.2	24.6	24.4	24.4	24.4	24.9
147.5°	24.4	24.7	24.4	24.4	24.6	25.3
148°	24.5	24.8	24.5	24.5	24.7	25.4
148.5°	24.5	24.9	24.6	24.5	24.9	25.6
149°	24.6	25.0	24.6	24.6	24.9	25.6
149.5°	24.5	25.3	24.8	24.8	25.2	25.6
150°	24.5	25.6	24.9	24.9	25.4	25.8
150.5°	24.5	25.6	24.9	25.0	25.6	25.8
151°	24.5	25.7	25.2	25.1	25.6	25.8
151.5°	24.5	25.6	25.3	25.2	25.6	25.8
152°	24.6	25.7	25.3	25.2	25.6	25.8
152.5°	24.6	25.7	25.3	25.1	25.6	25.8
153°	24.4	25.7	25.3	25.1	25.6	25.8
153.5°	24.4	25.6	25.3	25.1	25.6	25.8
154°	24.4	25.5	25.4	25.1	25.6	25.8
154.5°	24.1	25.4	25.4	25.1	25.6	25.8
155°	23.9	25.3	25.2	25.1	25.6	25.8
155.5°	23.8	25.1	25.2	25.1	25.6	25.9
156°	23.7	25.0	25.1	25.1	25.5	25.9
156.5°	23.6	24.8	25.0	25.1	25.3	25.8
157°	23.5	24.8	25.0	25.0	25.2	25.6



TEST NUMBER: P601022
 CATALOG NUMBER: FM119S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	23.4	24.6	25.0	25.0	25.2	25.6
158°	23.3	24.6	24.8	24.9	25.2	25.6
158.5°	23.3	24.5	24.8	24.8	25.0	25.5
159°	23.1	24.4	24.7	24.7	25.0	25.3
159.5°	23.0	24.3	24.6	24.7	25.0	25.2
160°	22.8	24.2	24.4	24.6	24.8	25.2
160.5°	22.7	24.2	24.4	24.4	24.8	25.1
161°	22.5	24.0	24.3	24.4	24.7	24.9
161.5°	22.5	23.8	24.2	24.3	24.6	24.7
162°	22.5	23.7	24.0	24.2	24.4	24.5
162.5°	22.5	23.5	24.0	24.1	24.4	24.4
163°	22.5	23.4	23.8	24.0	24.3	24.2
163.5°	22.3	23.3	23.7	23.9	24.2	23.9
164°	22.2	23.2	23.5	23.8	24.1	23.7
164.5°	22.1	23.0	23.5	23.7	24.0	23.6
165°	21.9	22.9	23.4	23.7	24.0	23.5
165.5°	21.8	22.8	23.3	23.5	23.7	23.4
166°	21.7	22.7	23.1	23.5	23.5	23.2
166.5°	21.6	22.6	23.0	23.5	23.5	23.0
167°	21.5	22.4	22.8	23.3	23.3	22.9
167.5°	21.4	22.3	22.6	23.1	23.0	22.7
168°	21.2	22.0	22.3	23.0	22.8	22.5
168.5°	21.2	21.9	22.2	22.7	22.5	22.4
169°	21.2	21.8	22.0	22.3	22.2	22.2
169.5°	20.9	21.6	21.8	21.9	21.9	22.1
170°	20.6	21.5	21.6	21.5	21.8	21.9
170.5°	20.5	21.2	21.4	21.2	21.6	21.8
171°	20.2	21.0	21.1	20.8	21.4	21.5
171.5°	20.2	20.8	20.8	20.4	21.0	21.3
172°	20.1	20.4	20.4	20.0	20.7	21.1
172.5°	19.9	20.1	19.9	19.5	20.2	20.8
173°	19.5	19.6	19.3	19.2	19.8	20.5
173.5°	19.4	19.4	19.1	18.9	19.3	20.1
174°	19.5	19.3	19.1	18.9	19.3	20.1
174.5°	19.6	21.0	20.6	20.5	20.7	21.4
175°	21.2	22.2	21.8	21.8	21.9	22.4
175.5°	22.9	22.5	22.5	22.5	22.5	22.9
176°	23.8	23.1	23.0	22.9	23.1	23.3
176.5°	24.3	23.5	23.5	23.5	23.5	23.6
177°	24.6	24.1	24.1	23.9	24.1	24.3
177.5°	25.0	24.4	24.4	24.4	24.4	24.5
178°	25.0	24.4	24.4	24.6	24.6	24.7
178.5°	25.0	24.6	24.6	24.7	24.8	24.8
179°	25.0	24.8	24.7	24.8	25.0	24.9
179.5°	25.0	25.0	24.8	24.8	25.0	25.1



TEST NUMBER: P601022
CATALOG NUMBER: FM119S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	25.4	25.4	25.4	25.4	25.4	25.4

(END OF REPORT)