

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: HALO

Report Number: P601041

Luminaire Tested: FM119S1EWHR_3500K

Issue Date: 3/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P601041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2117574B001)
Test Lab: INNOVATION CENTER
Issue Date: 3/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: FM119S1EWHR_3500K
Description: FM119S1EWHR at 3500K
Light Source: -
Ballast/Driver: -

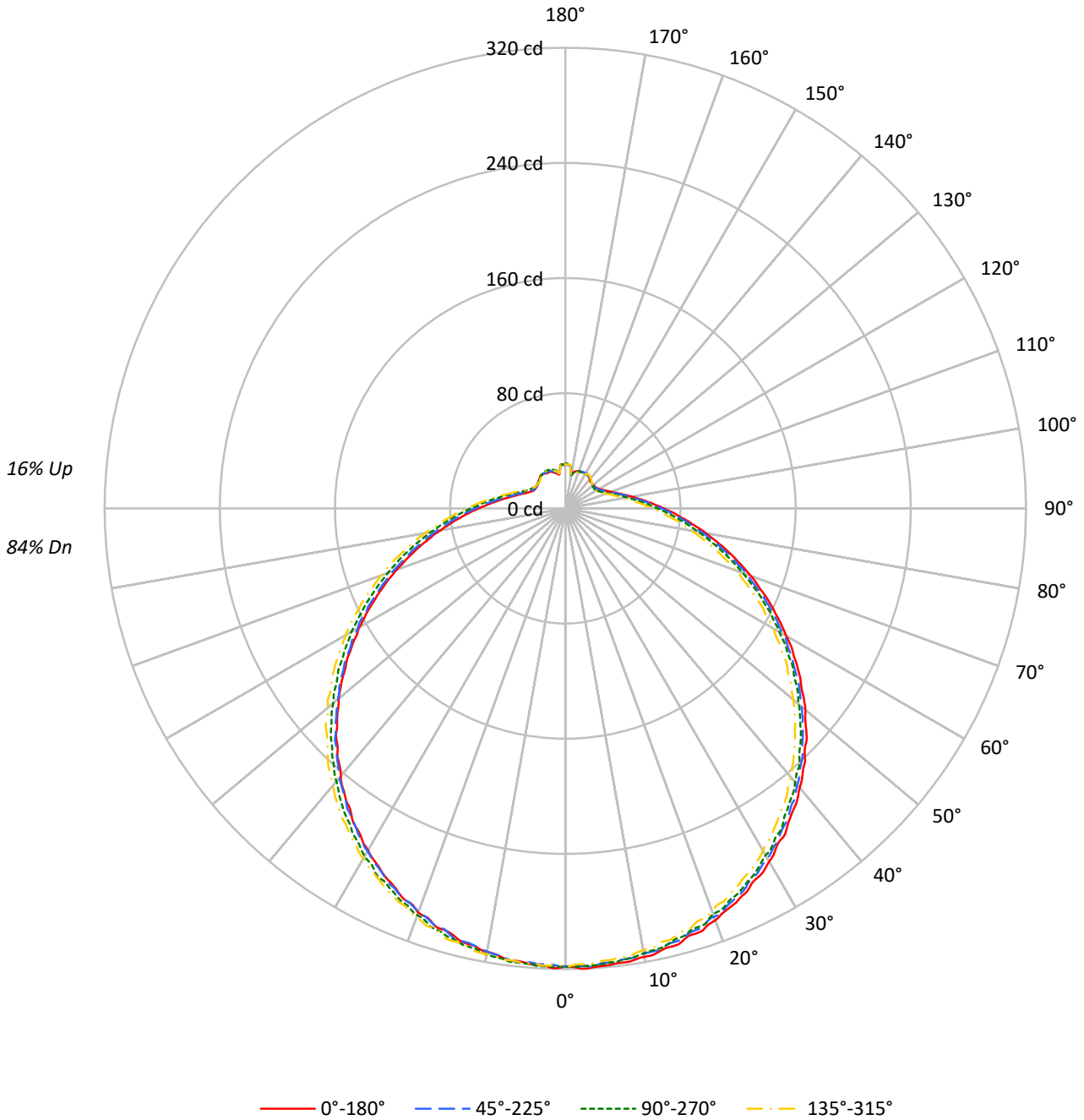
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1329.9 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.43
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: P601041
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	102	102	102	95	95	95	87	87	87	84
1	103	97	92	87	98	93	88	84	86	82	79	79	76	73	73	71	68	65
2	92	83	76	69	88	80	73	67	74	68	63	68	63	59	63	59	56	52
3	84	72	64	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	52	46	41	48	43	39	36
5	70	57	47	40	67	54	46	39	51	43	37	47	41	36	43	38	34	31
6	64	51	41	35	61	49	40	34	45	38	32	42	36	31	39	34	29	27
7	60	46	37	30	57	44	36	30	41	34	29	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°	3741	3741	3741	3741
5°	3638	3623	3614	3620
10°	3532	3504	3491	3514
15°	3436	3400	3371	3405
20°	3335	3287	3272	3294
25°	3241	3194	3148	3186
30°	3139	3083	3038	3091
35°	3034	2982	2921	2975
40°	2929	2872	2806	2860
45°	2816	2766	2693	2748
50°	2720	2646	2566	2626
55°	2607	2543	2445	2523
60°	2491	2416	2321	2409
65°	2384	2293	2192	2290
70°	2275	2179	2071	2180
75°	2174	2070	1957	2081
80°	2096	1977	1861	2001
85°	2047	1931	1809	1965

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 337.5°
 Vertical Angle: 45°
 Luminance: 2827 cd/sqm



TEST NUMBER: P601041
 CATALOG NUMBER: FM119S1EWHR_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.2	2.3
10°-20°	87.1	6.6
20°-30°	133.9	10.1
30°-40°	165.2	12.4
40°-50°	177.6	13.4
50°-60°	171.3	12.9
60°-70°	149.6	11.2
70°-80°	118.4	8.9
80°-90°	85.7	6.4
90°-100°	58.8	4.4
100°-110°	40.0	3.0
110°-120°	28.5	2.1
120°-130°	22.8	1.7
130°-140°	20.1	1.5
140°-150°	17.6	1.3
150°-160°	13.0	1.0
160°-170°	7.4	0.6
170°-180°	2.7	0.2
0°-30°	251.3	18.9
0°-40°	416.5	31.3
0°-60°	765.3	57.5
0°-90°	1119.0	84.1
90°-120°	127.3	9.6
90°-150°	187.7	14.1
90°-180°	211.0	15.9
0°-180°	1329.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	318	318	318	318	318	
5°	319	318	317	317	319	30
15°	312	309	306	309	312	88
25°	295	291	287	290	295	136
35°	269	264	259	264	269	169
45°	235	231	225	230	235	182
55°	198	193	186	192	198	177
65°	157	151	145	151	157	156
75°	117	112	106	112	117	124
85°	83	78	73	79	83	71
90°	68	64	60	66	68	38
95°	56	53	50	54	56	44
105°	40	37	35	39	40	42
115°	30	27	27	30	30	30
125°	26	24	25	26	26	23
135°	25	26	26	26	25	20
145°	28	28	28	28	28	17
155°	28	27	28	29	28	13
165°	27	26	26	28	27	7
175°	30	31	30	30	30	3
180°	30	30	30	30	30	



TEST NUMBER: P601041
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	318.4	318.4	318.4	318.4	318.4	318.4	318.4	318.4	318.4	318.4	318.4
0.5°	318.4	318.4	318.4	318.3	318.4	318.2	318.2	318.4	318.9	318.8	318.2
1°	318.6	318.4	318.4	318.3	318.4	317.7	317.3	318.4	319.5	318.8	317.8
1.5°	319.2	318.5	318.4	318.3	318.4	317.4	316.9	318.4	319.5	318.6	317.2
2°	319.9	318.6	318.2	318.3	318.4	317.4	316.9	318.4	318.9	318.4	317.2
2.5°	320.1	318.6	318.2	318.3	318.3	317.4	316.9	318.3	318.0	318.2	317.2
3°	319.8	318.7	318.7	318.0	318.1	317.4	316.9	317.7	317.8	317.8	317.2
3.5°	319.3	318.7	319.3	318.0	318.1	317.2	316.6	317.2	317.8	317.1	317.1
4°	319.1	318.5	317.8	317.9	318.0	316.7	316.1	317.1	317.8	317.0	316.6
4.5°	318.9	318.5	317.0	317.7	317.8	316.4	315.5	317.2	317.3	317.0	316.3
5°	318.9	318.5	316.9	317.5	317.6	316.0	315.3	317.1	316.8	317.1	316.4
5.5°	318.7	318.5	316.9	317.0	317.0	315.8	315.3	316.5	316.4	316.8	316.5
6°	318.3	318.4	316.9	316.6	317.0	315.8	315.1	316.3	316.1	316.1	316.5
6.5°	318.1	317.8	316.9	316.6	316.9	315.8	314.4	316.3	316.3	315.4	316.6
7°	318.0	317.2	316.0	316.7	316.3	315.7	314.3	315.7	316.4	314.8	316.2
7.5°	318.0	317.1	315.8	316.5	316.1	315.0	314.3	314.9	315.8	314.6	315.3
8°	318.0	317.0	315.8	316.1	315.7	314.6	314.3	314.5	314.9	314.5	314.4
8.5°	317.6	317.1	315.8	315.8	315.4	314.7	313.7	314.2	314.1	314.4	313.8
9°	317.0	317.1	315.8	315.5	315.0	314.7	312.8	313.7	313.4	313.4	313.6
9.5°	316.5	316.1	315.1	315.0	314.4	314.5	312.1	313.0	313.0	312.5	313.2
10°	316.3	315.5	314.3	314.1	313.8	313.8	311.6	313.0	312.7	312.6	312.7
10.5°	316.3	315.5	314.0	313.2	313.3	312.7	311.3	313.0	312.7	313.1	312.0
11°	316.3	315.6	313.8	313.0	313.1	311.9	311.2	312.8	312.0	312.7	311.6
11.5°	315.6	315.5	313.8	312.7	313.0	310.9	310.8	311.6	310.9	311.9	310.5
12°	314.7	314.1	313.7	312.4	312.6	310.4	309.6	310.2	310.1	310.4	309.9
12.5°	313.9	312.9	313.0	311.8	312.3	310.0	308.5	309.2	310.1	309.4	309.3
13°	313.3	312.5	311.5	310.8	311.5	309.6	308.5	309.2	309.9	308.7	309.1
13.5°	313.2	312.4	310.8	310.4	310.5	309.6	308.4	309.2	309.6	308.6	309.1
14°	313.2	312.5	310.6	310.1	309.5	309.0	308.0	309.1	308.4	308.6	309.0
14.5°	313.0	312.2	310.6	309.3	308.8	307.9	306.9	308.0	307.1	307.9	308.3
15°	311.9	311.4	310.4	308.7	308.6	307.0	305.5	306.4	306.0	306.7	307.3
15.5°	310.5	310.6	309.5	308.3	308.4	306.4	304.9	305.2	305.2	305.3	305.8
16°	309.3	309.6	308.0	308.0	307.3	306.3	304.8	305.2	304.6	304.2	304.3
16.5°	308.9	308.6	307.1	307.5	305.9	305.7	304.6	305.2	304.6	303.8	303.7
17°	308.9	307.8	306.7	306.7	305.2	304.8	303.3	304.5	304.5	303.1	303.7
17.5°	308.9	307.3	306.7	305.2	305.1	303.8	301.6	302.9	303.4	302.2	303.3
18°	308.5	307.2	306.7	303.9	305.0	302.5	301.0	301.0	301.6	301.2	302.0
18.5°	307.0	306.9	305.4	303.6	304.9	301.4	300.8	300.1	300.1	300.2	300.7
19°	305.8	305.8	303.3	303.4	303.2	300.8	300.5	300.1	299.7	299.5	299.7
19.5°	305.1	304.2	302.1	302.8	301.3	300.3	299.2	299.7	299.5	298.8	298.9
20°	304.5	302.9	301.9	301.1	300.1	299.8	297.5	298.8	298.7	297.7	298.1
20.5°	303.6	302.3	301.9	299.4	299.6	298.8	296.2	297.3	297.0	296.6	297.0
21°	302.2	301.9	301.6	298.9	299.5	297.9	295.1	295.7	295.3	295.5	295.8
21.5°	301.2	301.3	300.4	298.6	298.8	296.8	294.5	294.9	294.4	294.6	294.7
22°	300.6	300.6	298.4	298.2	297.4	295.4	294.4	294.3	294.2	294.1	294.2



TEST NUMBER: P601041
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	299.8	299.2	297.4	297.0	295.8	294.5	293.0	293.2	293.6	292.9	293.4
23°	299.0	297.5	296.6	295.3	294.7	293.7	291.2	292.0	292.3	291.3	292.5
23.5°	298.2	296.5	295.8	293.8	294.1	292.4	290.3	290.6	290.8	290.2	291.2
24°	297.0	295.7	294.9	292.7	293.5	290.9	289.7	289.3	289.3	289.0	289.9
24.5°	295.9	294.9	294.0	291.9	292.6	289.6	288.5	288.5	288.1	287.9	288.8
25°	295.3	294.1	293.1	291.0	291.1	288.8	287.0	287.7	286.9	286.8	288.2
25.5°	294.3	293.3	291.6	290.0	289.9	288.1	285.6	286.7	286.0	285.7	286.9
26°	292.7	291.6	289.7	288.8	288.6	286.9	284.6	285.7	284.9	285.0	285.4
26.5°	290.8	289.8	288.5	287.5	287.7	285.8	283.6	284.3	283.6	283.6	283.9
27°	289.8	289.0	287.7	286.6	286.7	284.6	282.6	283.1	282.1	282.1	282.6
27.5°	289.3	288.2	287.0	285.7	285.5	283.1	281.7	281.7	280.6	280.6	281.3
28°	288.6	287.2	285.9	284.2	284.2	281.5	280.5	280.1	279.4	279.6	280.2
28.5°	287.7	285.7	284.2	282.6	282.7	280.4	279.2	278.4	278.4	278.4	279.0
29°	286.2	284.2	282.8	281.0	281.2	279.4	277.8	277.1	277.2	276.9	277.8
29.5°	284.7	283.3	281.9	280.2	279.6	278.3	276.4	276.0	275.8	275.2	276.1
30°	283.3	282.8	281.0	279.7	278.3	277.1	274.7	275.0	274.2	274.1	274.8
30.5°	282.2	282.0	279.8	278.6	277.7	275.4	272.9	273.6	273.0	273.2	273.9
31°	280.9	280.1	278.2	277.1	276.6	273.7	271.6	271.6	271.9	271.6	272.4
31.5°	279.0	278.1	276.5	275.3	275.1	272.6	270.5	270.2	270.2	269.8	270.5
32°	276.9	276.9	275.4	273.6	273.2	271.3	269.2	269.1	268.2	268.0	269.3
32.5°	275.5	275.8	274.5	272.0	271.5	269.9	267.6	267.5	266.7	266.4	267.9
33°	274.6	274.3	272.7	270.5	270.4	268.1	265.9	265.7	265.5	265.3	266.2
33.5°	274.0	272.5	270.7	269.2	269.7	266.2	264.5	264.2	264.6	264.4	264.5
34°	273.0	270.8	269.3	268.0	268.5	264.7	262.8	263.2	263.3	262.7	262.8
34.5°	271.1	269.5	268.0	266.9	266.8	263.7	261.3	262.3	261.4	260.6	261.3
35°	269.1	268.2	266.9	265.3	264.5	262.7	259.9	260.9	259.1	258.5	260.0
35.5°	267.4	267.0	265.7	263.4	262.4	261.2	258.2	258.5	257.2	257.0	258.9
36°	265.8	265.8	264.2	261.4	261.0	259.5	256.5	256.4	255.7	256.6	257.7
36.5°	264.3	264.2	262.1	260.2	259.7	257.4	255.5	254.9	254.8	256.0	255.6
37°	262.9	262.3	260.3	259.1	257.9	255.5	254.1	253.9	253.3	254.2	253.3
37.5°	261.6	260.8	258.7	257.3	256.5	254.1	252.6	252.3	251.4	251.9	251.7
38°	260.4	259.0	257.8	255.1	255.1	253.6	250.7	250.1	249.7	249.7	250.4
38.5°	258.9	257.2	256.5	253.4	254.0	252.2	248.5	248.2	248.3	247.8	248.9
39°	257.1	255.6	254.4	252.2	252.2	249.8	246.7	246.8	246.8	246.5	247.2
39.5°	255.0	254.4	252.3	251.3	250.4	247.5	245.3	245.4	245.0	244.9	245.7
40°	253.3	253.2	250.5	249.9	248.4	245.7	243.8	243.5	242.7	242.7	244.1
40.5°	251.9	251.3	249.3	247.6	246.6	244.2	241.9	241.4	240.5	240.5	242.3
41°	250.4	249.0	247.6	245.2	244.6	242.4	240.0	239.5	238.5	238.8	240.3
41.5°	248.5	247.1	245.6	243.4	243.2	240.8	238.3	238.0	236.9	237.3	238.1
42°	246.5	245.4	243.7	242.3	242.5	239.4	236.8	236.5	235.6	236.0	236.5
42.5°	244.7	244.0	242.1	241.1	240.7	237.7	234.8	234.7	234.3	234.4	234.9
43°	243.5	242.5	240.6	239.6	238.5	235.6	232.9	232.8	232.1	232.5	232.8
43.5°	242.1	240.9	239.1	237.0	236.2	233.6	231.1	230.8	229.7	230.4	230.8
44°	239.7	238.8	237.3	234.2	234.1	231.7	229.4	228.8	227.8	227.9	229.2
44.5°	237.1	236.8	235.0	232.6	232.6	230.2	227.6	227.2	226.6	225.7	227.9



TEST NUMBER: P601041
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	235.4	234.7	232.8	231.3	231.2	228.4	225.9	225.2	225.1	224.0	226.3
45.5°	234.2	232.7	231.0	229.6	229.4	226.6	223.6	223.2	223.1	223.0	223.8
46°	232.8	231.3	229.3	227.3	227.5	224.8	221.7	221.3	220.6	221.4	221.5
46.5°	231.3	229.6	227.6	225.2	225.7	222.9	220.1	219.4	218.6	219.1	219.9
47°	229.1	227.7	225.8	223.7	223.5	220.7	218.2	217.5	216.8	216.4	218.1
47.5°	227.0	225.3	223.9	222.4	221.5	218.6	216.2	215.8	215.0	214.5	215.9
48°	224.8	223.2	221.9	220.6	219.6	216.9	214.4	213.7	213.1	213.5	214.0
48.5°	222.7	221.4	220.3	218.4	217.8	215.2	212.5	211.8	210.9	212.0	212.2
49°	220.9	220.2	218.3	216.1	215.9	213.2	210.6	209.8	208.8	209.9	210.3
49.5°	219.3	218.8	216.3	214.0	214.0	211.3	208.7	207.5	207.0	207.4	208.2
50°	217.8	216.9	214.3	212.2	211.9	209.7	206.7	205.5	205.5	205.0	206.1
50.5°	216.0	214.5	212.3	210.5	209.8	207.7	204.5	204.1	203.5	203.1	204.1
51°	213.7	211.7	210.2	209.0	208.2	205.6	202.4	202.6	201.3	201.5	202.2
51.5°	211.8	209.7	208.6	207.2	206.5	203.4	200.8	200.6	199.2	199.8	200.6
52°	209.4	208.3	206.8	204.4	204.7	201.5	199.0	198.4	197.4	197.7	198.9
52.5°	207.1	207.0	205.0	202.0	202.7	199.4	197.0	196.2	195.5	195.6	197.2
53°	205.3	205.0	203.0	200.1	200.4	197.4	194.8	194.3	193.3	193.1	194.9
53.5°	203.6	202.4	201.1	198.4	198.0	196.0	192.6	192.5	190.9	191.1	192.5
54°	202.0	200.3	198.8	196.8	196.2	194.2	191.0	190.5	188.8	189.5	190.3
54.5°	200.0	198.3	196.6	195.0	194.7	191.8	189.6	188.6	187.3	187.8	188.7
55°	198.0	196.7	194.4	193.1	193.1	189.6	187.7	186.7	185.7	185.7	187.1
55.5°	196.0	194.5	192.5	190.8	191.1	187.6	185.2	184.5	183.6	183.4	185.0
56°	194.1	192.2	190.8	188.6	188.7	185.7	182.6	182.0	181.2	181.3	182.7
56.5°	191.8	190.3	189.0	186.7	186.4	183.7	180.5	179.7	179.0	179.2	180.4
57°	189.5	188.5	186.9	184.9	184.3	181.6	179.0	177.9	177.1	177.2	178.1
57.5°	187.8	186.6	184.6	182.8	182.4	179.3	177.2	176.1	175.2	175.2	176.4
58°	186.2	184.4	182.5	180.7	180.6	177.2	174.9	174.1	173.0	173.1	175.0
58.5°	184.3	182.0	180.7	178.6	178.5	175.4	172.5	171.9	170.6	171.1	173.0
59°	181.9	180.0	179.1	176.2	176.1	173.3	170.3	169.7	168.5	169.1	170.5
59.5°	179.8	178.1	177.4	174.1	173.8	171.2	168.5	167.8	167.2	167.5	168.2
60°	177.4	176.3	175.1	172.3	172.1	169.2	167.0	165.8	165.3	165.5	166.4
60.5°	175.2	174.2	172.6	170.6	170.1	167.3	164.9	163.4	162.9	163.5	165.1
61°	173.3	172.0	170.4	168.5	167.9	165.2	162.5	161.3	160.7	161.1	163.5
61.5°	171.4	169.9	168.4	166.6	165.5	162.9	160.1	159.4	158.7	158.7	161.2
62°	169.5	168.3	166.6	164.6	163.5	160.9	157.9	157.7	156.8	156.8	158.6
62.5°	167.4	166.5	164.5	162.7	161.9	158.9	156.1	155.7	154.9	155.3	156.2
63°	165.2	164.5	162.3	160.2	160.3	156.9	154.6	153.5	152.7	153.6	154.4
63.5°	163.1	162.1	160.2	158.0	157.9	154.9	152.7	151.3	150.5	151.5	153.1
64°	161.1	159.7	158.3	156.2	155.5	152.9	150.4	149.2	148.3	149.0	151.0
64.5°	159.2	157.7	156.5	154.4	153.2	150.7	147.9	147.2	146.3	146.7	148.7
65°	157.3	155.8	154.4	152.5	151.3	148.6	145.9	145.0	144.6	144.8	146.5
65.5°	155.2	153.9	152.5	150.2	149.6	146.6	143.9	142.9	142.8	143.1	144.5
66°	153.3	151.9	150.3	148.0	147.8	144.6	142.0	141.0	140.4	141.2	142.6
66.5°	151.1	149.8	148.1	146.1	145.6	142.6	140.1	139.0	138.3	139.0	140.6
67°	149.0	147.8	146.0	144.1	143.4	140.4	138.0	137.1	136.5	137.0	138.9



TEST NUMBER: P601041
 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°	146.8	145.8	144.0	141.9	141.2	138.4	135.9	135.0	134.6	135.0	137.0
68°	144.8	143.9	142.0	139.8	139.1	136.9	133.8	133.0	132.7	133.2	134.7
68.5°	143.0	142.1	139.8	138.1	137.3	134.9	131.9	131.0	130.7	131.3	132.7
69°	141.2	139.9	138.0	136.3	135.1	132.8	130.3	129.1	128.5	129.4	131.0
69.5°	139.3	137.8	135.9	134.2	133.2	130.5	128.5	127.1	126.6	127.3	129.3
70°	137.0	135.5	134.4	132.0	131.2	128.4	126.3	125.0	124.7	125.4	127.3
70.5°	134.9	133.6	132.7	129.9	129.3	126.6	124.0	123.2	122.7	123.4	125.2
71°	133.1	131.8	130.7	128.1	127.4	124.8	121.9	121.4	120.5	121.6	123.2
71.5°	131.1	130.0	128.4	126.4	125.5	122.6	119.9	119.3	118.5	119.8	121.2
72°	129.1	128.0	126.1	124.5	123.4	120.3	118.1	117.4	116.8	118.0	119.4
72.5°	127.4	125.9	124.3	122.5	121.5	118.4	116.3	115.5	115.1	116.0	117.5
73°	125.2	123.8	122.6	120.5	119.7	116.9	114.4	113.6	113.1	113.7	115.5
73.5°	123.4	121.8	120.8	118.5	117.6	115.2	112.7	111.6	111.1	111.9	113.5
74°	121.3	120.1	118.8	116.5	115.5	113.2	110.8	109.5	109.3	110.2	111.9
74.5°	119.3	118.1	116.8	114.5	113.6	111.2	108.8	107.8	107.5	108.5	110.6
75°	117.4	116.4	114.8	112.7	111.8	109.1	107.0	106.1	105.7	106.7	108.7
75.5°	115.6	114.5	113.0	111.0	110.0	107.3	105.1	104.3	103.9	104.7	106.7
76°	113.8	112.7	111.2	109.3	108.3	105.3	103.2	102.5	102.0	102.9	104.6
76.5°	112.0	111.1	109.5	107.6	106.3	103.5	101.4	100.6	100.2	101.3	102.7
77°	110.0	109.2	107.7	105.6	104.4	102.0	99.6	98.9	98.3	99.8	101.2
77.5°	108.1	107.0	105.7	103.5	102.5	100.3	97.7	97.1	96.7	98.1	99.6
78°	106.2	105.2	103.6	101.6	100.8	98.4	96.0	95.4	95.0	96.0	97.8
78.5°	104.4	103.6	101.8	100.0	99.0	96.4	94.3	93.5	93.5	94.1	96.1
79°	102.7	102.0	100.2	98.5	97.3	94.6	92.6	91.7	91.8	92.2	94.3
79.5°	101.1	100.2	98.5	97.0	95.5	93.0	90.8	90.0	90.0	90.8	92.7
80°	99.3	98.2	96.7	95.2	93.7	91.5	89.1	88.5	88.2	89.5	91.0
80.5°	97.7	96.4	94.9	93.4	92.1	89.9	87.6	87.0	86.7	87.8	89.3
81°	95.8	94.7	93.4	91.7	90.5	88.2	86.1	85.4	85.0	86.0	87.7
81.5°	94.1	93.1	91.6	90.0	88.8	86.5	84.3	83.7	83.4	84.4	86.1
82°	92.2	91.4	90.0	88.4	87.1	84.8	82.5	81.9	82.0	82.8	84.5
82.5°	90.5	89.7	88.3	86.8	85.7	83.2	81.1	80.3	80.5	81.2	82.8
83°	88.9	88.0	86.8	85.2	84.0	81.6	79.7	78.9	79.1	79.8	81.3
83.5°	87.4	86.5	85.3	83.6	82.5	80.2	78.5	77.7	77.5	78.5	80.0
84°	85.8	85.1	83.9	82.1	80.8	78.7	77.0	76.3	75.8	77.2	78.6
84.5°	84.2	83.4	82.3	80.6	79.2	77.4	75.4	74.8	74.6	75.6	77.3
85°	82.7	81.7	80.8	79.1	78.0	75.8	73.7	73.2	73.1	73.9	75.7
85.5°	81.0	80.2	79.3	77.6	76.5	74.4	72.4	71.8	71.8	72.6	74.2
86°	79.5	78.9	78.0	76.3	75.0	72.9	71.1	70.3	70.3	71.5	72.6
86.5°	78.1	77.5	76.6	75.0	73.5	71.6	69.8	68.9	68.9	70.3	71.4
87°	76.7	76.0	75.1	73.6	71.9	70.0	68.4	67.6	67.5	68.8	70.3
87.5°	75.4	74.6	73.5	72.3	70.7	68.7	67.1	66.5	66.4	67.3	69.0
88°	74.0	73.2	72.2	70.9	69.3	67.4	65.9	65.2	65.3	65.9	67.5
88.5°	72.5	71.7	70.9	69.5	68.0	66.2	64.5	63.9	64.0	64.7	66.2
89°	71.0	70.4	69.6	68.1	66.8	64.8	63.3	62.6	62.7	63.7	64.9
89.5°	69.7	69.1	68.2	66.9	65.4	63.5	61.9	61.4	61.4	62.4	63.6



TEST NUMBER: P601041
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	68.5	67.9	66.9	65.5	64.2	62.2	60.8	60.2	60.2	61.1	62.5
90.5°	67.2	66.6	65.6	64.4	62.9	61.0	59.7	59.1	59.1	59.9	61.4
91°	66.0	65.3	64.4	63.3	61.6	60.0	58.5	58.0	58.0	58.9	60.2
91.5°	64.5	64.1	63.3	62.1	60.3	58.8	57.2	56.9	56.8	57.8	59.0
92°	63.3	62.8	62.2	60.9	59.2	57.7	56.1	55.6	55.7	56.7	57.9
92.5°	62.1	61.7	61.0	59.6	58.1	56.5	55.1	54.5	54.6	55.6	56.8
93°	61.1	60.5	59.6	58.4	57.1	55.4	54.1	53.4	53.5	54.5	55.7
93.5°	60.0	59.3	58.5	57.3	55.9	54.3	52.9	52.4	52.5	53.4	54.7
94°	58.8	58.2	57.6	56.3	54.8	53.2	52.1	51.5	51.6	52.4	53.6
94.5°	57.6	57.2	56.5	55.4	53.6	52.4	50.9	50.6	50.7	51.5	52.6
95°	56.5	56.2	55.3	54.3	52.6	51.1	50.0	49.6	49.7	50.5	51.6
95.5°	55.5	54.9	54.1	53.2	51.6	50.1	49.2	48.8	48.7	49.5	50.5
96°	54.5	53.8	53.2	52.0	50.7	49.4	48.4	47.9	47.9	48.8	49.6
96.5°	53.5	53.0	52.3	51.1	49.7	48.7	47.6	46.9	47.1	47.9	48.9
97°	52.3	52.0	51.4	50.2	48.8	47.7	46.4	46.0	46.1	47.0	48.2
97.5°	51.4	51.1	50.5	49.4	47.8	46.6	45.5	45.1	45.3	46.2	47.3
98°	50.5	50.2	49.5	48.4	46.9	45.7	44.7	44.3	44.7	45.3	46.1
98.5°	49.7	49.3	48.6	47.5	46.1	44.9	43.9	43.5	43.8	44.4	45.3
99°	48.8	48.4	47.7	46.8	45.3	44.0	43.1	42.7	43.0	43.6	44.8
99.5°	47.9	47.4	46.8	45.9	44.4	43.3	42.3	42.1	42.1	42.9	43.9
100°	47.0	46.6	46.0	45.0	43.5	42.5	41.5	41.3	41.3	42.2	43.1
100.5°	46.2	45.8	45.3	44.2	42.6	41.7	40.8	40.5	40.8	41.4	42.4
101°	45.3	44.9	44.4	43.4	42.1	40.9	40.1	39.8	40.2	40.7	41.5
101.5°	44.6	44.0	43.6	42.7	41.3	40.1	39.3	39.1	39.4	40.2	40.8
102°	43.8	43.2	42.8	41.9	40.6	39.3	38.6	38.5	38.6	39.4	40.3
102.5°	43.0	42.6	42.0	41.2	39.7	38.7	37.9	37.8	37.9	38.7	39.4
103°	42.0	41.9	41.2	40.6	39.0	38.0	37.4	37.2	37.7	38.0	38.8
103.5°	41.4	41.3	40.5	39.8	38.4	37.5	36.8	36.6	36.7	37.5	38.2
104°	40.7	40.2	39.9	39.1	37.7	36.7	36.3	36.0	36.3	36.8	37.5
104.5°	40.3	39.4	39.2	38.4	37.2	36.0	35.5	35.6	35.7	36.5	37.0
105°	39.6	38.9	38.4	37.9	36.6	35.6	34.9	34.8	35.1	35.8	36.5
105.5°	38.8	38.4	37.9	37.3	35.8	35.0	34.2	34.2	34.6	35.1	35.8
106°	38.2	37.8	37.2	36.6	35.2	34.4	33.9	33.9	34.0	34.7	35.3
106.5°	37.6	37.2	36.7	36.1	34.7	33.9	33.5	33.2	33.7	34.1	34.7
107°	37.0	36.6	36.2	35.5	34.1	33.3	32.8	32.9	33.0	33.9	34.2
107.5°	36.4	36.0	35.6	34.9	33.7	32.9	32.4	32.3	32.7	33.0	33.9
108°	35.8	35.5	35.1	34.5	33.0	32.2	31.8	31.9	32.1	32.7	33.2
108.5°	35.3	34.9	34.6	34.1	32.6	31.8	31.3	31.4	31.7	32.2	32.8
109°	34.8	34.4	34.0	33.6	32.1	31.3	30.7	30.9	31.2	31.7	32.2
109.5°	34.3	33.9	33.5	32.9	31.7	31.1	30.3	30.4	30.8	31.3	32.0
110°	33.8	33.4	33.0	32.4	31.1	30.4	30.0	30.1	30.3	31.0	31.4
110.5°	33.3	32.9	32.6	31.9	30.7	30.2	29.7	29.9	30.3	30.5	31.0
111°	32.8	32.5	32.1	31.5	30.3	29.6	29.2	29.3	29.6	30.3	30.5
111.5°	32.4	32.0	31.7	31.1	30.1	29.1	28.7	28.9	29.3	30.0	30.2
112°	31.9	31.6	31.2	30.7	29.4	28.9	28.4	28.4	28.9	29.3	30.1



TEST NUMBER: P601041
 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°	31.6	31.3	30.8	30.4	29.2	28.4	28.1	28.3	28.5	29.2	29.5
113°	31.3	30.8	30.5	30.0	28.7	28.1	27.8	27.9	28.3	28.6	29.1
113.5°	30.8	30.4	30.1	29.5	28.3	27.7	27.3	27.6	27.9	28.4	29.0
114°	30.5	30.1	29.8	29.2	27.9	27.5	27.2	27.4	27.5	28.2	28.5
114.5°	30.1	29.8	29.4	28.9	27.6	27.3	26.8	26.8	27.5	27.8	28.5
115°	29.7	29.4	29.1	28.6	27.4	26.8	26.5	26.7	27.3	27.8	27.9
115.5°	29.5	29.1	28.7	28.3	27.1	26.4	26.3	26.6	26.7	27.3	27.6
116°	29.2	28.7	28.5	28.0	26.7	26.4	26.0	26.5	26.5	27.2	27.4
116.5°	28.8	28.4	28.2	27.7	26.5	26.3	25.6	26.0	26.5	26.6	27.3
117°	28.5	28.1	27.9	27.4	26.4	25.8	25.6	25.7	26.2	26.6	26.9
117.5°	28.2	28.0	27.6	27.2	25.9	25.5	25.5	25.5	26.0	26.4	26.6
118°	28.0	27.7	27.3	27.0	25.7	25.5	25.4	25.5	25.8	26.3	26.5
118.5°	27.8	27.4	27.0	26.8	25.5	25.3	25.0	25.3	25.6	25.9	26.4
119°	27.5	27.3	26.9	26.6	25.4	25.2	24.8	25.0	25.5	25.9	26.2
119.5°	27.4	27.0	26.8	26.4	25.1	24.7	24.6	24.9	25.3	25.7	25.9
120°	27.2	26.9	26.5	26.3	24.9	24.6	24.5	24.7	25.1	25.7	25.8
120.5°	27.0	26.6	26.3	26.0	24.8	24.6	24.5	24.7	25.1	25.6	25.7
121°	26.8	26.5	26.1	25.9	24.7	24.6	24.5	24.6	24.9	25.5	25.5
121.5°	26.6	26.3	25.9	25.8	24.7	24.5	24.4	24.5	24.9	25.2	25.5
122°	26.4	26.2	25.8	25.6	24.6	24.5	24.3	24.5	24.9	25.1	25.5
122.5°	26.3	26.0	25.8	25.5	24.5	24.4	24.3	24.5	24.9	25.1	25.4
123°	26.1	25.8	25.7	25.5	24.4	24.4	24.3	24.4	24.9	25.1	25.2
123.5°	25.9	25.6	25.5	25.3	24.4	24.4	24.3	24.4	24.9	25.1	25.2
124°	25.8	25.6	25.4	25.3	24.4	24.4	24.3	24.4	24.9	25.1	25.2
124.5°	25.7	25.5	25.2	25.1	24.4	24.4	24.3	24.4	24.8	25.1	25.1
125°	25.7	25.4	25.1	25.1	24.4	24.4	24.3	24.4	24.8	25.1	25.1
125.5°	25.6	25.3	25.1	25.0	24.4	24.4	24.3	24.4	24.9	25.1	25.1
126°	25.6	25.2	25.1	25.0	24.4	24.4	24.3	24.4	24.9	25.1	25.1
126.5°	25.6	25.2	25.1	24.9	24.4	24.4	24.3	24.4	24.9	25.1	25.1
127°	25.4	25.2	25.0	24.9	24.4	24.4	24.3	24.4	24.9	25.1	25.1
127.5°	25.4	25.2	25.0	24.9	24.4	24.4	24.4	24.5	24.9	25.1	25.1
128°	25.4	25.1	25.0	24.9	24.5	24.4	24.5	24.6	24.9	25.2	25.1
128.5°	25.3	25.1	24.9	24.9	24.5	24.6	24.5	24.6	25.0	25.2	25.2
129°	25.3	25.1	24.9	24.9	24.7	24.6	24.6	24.7	25.0	25.3	25.2
129.5°	25.3	25.1	24.9	24.9	24.7	24.6	24.7	24.7	25.1	25.3	25.4
130°	25.3	25.0	24.9	24.9	24.7	24.6	24.8	24.8	25.1	25.3	25.5
130.5°	25.3	25.0	24.9	24.9	24.7	24.7	24.8	24.8	25.3	25.4	25.6
131°	25.3	25.0	24.9	24.9	24.8	24.8	24.9	24.9	25.3	25.5	25.6
131.5°	25.3	25.0	24.9	24.9	24.8	25.0	25.0	25.0	25.3	25.6	25.6
132°	25.3	25.0	24.9	25.0	24.9	25.0	25.1	25.0	25.4	25.7	25.7
132.5°	25.3	25.0	24.9	25.0	25.0	25.1	25.1	25.3	25.6	25.8	25.7
133°	25.3	25.0	25.0	24.9	25.1	25.1	25.4	25.4	25.7	25.9	25.8
133.5°	25.3	25.0	25.0	25.1	25.3	25.2	25.4	25.5	25.9	26.0	25.8
134°	25.3	25.1	25.0	25.4	25.3	25.4	25.6	25.6	26.1	26.0	25.9
134.5°	25.3	25.1	25.3	25.6	25.5	25.7	25.7	25.8	26.1	26.1	26.1



TEST NUMBER: P601041
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	25.3	25.1	25.4	25.5	25.7	25.8	25.8	25.9	26.3	26.2	26.2
135.5°	25.5	25.3	25.4	25.5	25.9	25.9	26.1	26.1	26.4	26.5	26.2
136°	25.6	25.5	25.6	25.7	26.0	26.1	26.3	26.2	26.5	26.7	26.3
136.5°	25.6	25.5	25.7	25.9	26.1	26.2	26.4	26.4	26.7	26.9	26.5
137°	25.7	25.6	25.9	26.2	26.2	26.4	26.4	26.5	26.8	26.9	26.4
137.5°	25.8	25.7	26.2	26.4	26.3	26.6	26.6	26.6	26.9	27.0	26.8
138°	26.0	25.9	26.4	26.4	26.5	26.6	26.7	26.9	27.0	27.1	27.0
138.5°	26.0	26.2	26.4	26.4	26.7	26.9	27.0	27.0	27.1	27.2	27.1
139°	26.4	26.4	26.5	26.6	26.9	27.0	27.1	27.2	27.4	27.3	27.2
139.5°	26.6	26.5	26.5	26.7	27.0	27.2	27.2	27.3	27.5	27.5	27.4
140°	26.5	26.5	26.7	26.9	27.2	27.3	27.4	27.5	27.6	27.7	27.6
140.5°	26.7	26.6	26.8	27.1	27.4	27.4	27.6	27.6	27.8	28.0	27.8
141°	26.7	26.7	26.9	27.4	27.5	27.5	27.7	27.7	27.9	28.2	27.9
141.5°	26.8	26.8	27.2	27.4	27.6	27.6	27.9	27.7	27.9	28.2	28.0
142°	26.9	27.0	27.4	27.4	27.7	27.9	27.9	27.9	28.2	28.3	28.3
142.5°	27.4	27.4	27.3	27.6	27.9	28.0	28.2	28.0	28.3	28.4	28.4
143°	27.5	27.4	27.5	27.9	28.0	28.1	28.3	28.1	28.3	28.5	28.5
143.5°	27.5	27.4	27.6	28.2	28.0	28.1	28.3	28.2	28.3	28.7	28.7
144°	27.5	27.4	27.7	28.2	28.1	28.1	28.3	28.3	28.4	28.7	28.7
144.5°	27.5	27.5	27.7	28.2	28.3	28.4	28.3	28.4	28.4	28.6	28.7
145°	27.5	27.5	27.9	28.2	28.3	28.4	28.3	28.4	28.4	28.6	28.7
145.5°	27.5	27.5	27.8	28.2	28.3	28.4	28.3	28.3	28.4	28.6	28.7
146°	27.6	27.7	28.0	28.2	28.4	28.4	28.3	28.4	28.4	28.6	28.7
146.5°	28.0	27.8	28.3	28.2	28.4	28.3	28.3	28.4	28.4	28.6	28.7
147°	28.0	27.8	28.3	28.2	28.2	28.3	28.2	28.3	28.5	28.6	28.7
147.5°	27.9	27.9	28.3	28.2	28.2	28.3	28.2	28.1	28.5	28.6	28.7
148°	27.9	27.9	28.3	28.3	27.8	28.3	28.2	27.9	28.3	28.6	28.7
148.5°	27.9	27.9	28.4	28.3	27.8	27.8	28.2	27.9	28.3	28.7	28.7
149°	27.9	28.0	28.4	28.3	27.8	27.8	27.9	27.7	28.3	28.7	28.6
149.5°	27.9	28.0	28.3	28.3	27.8	27.7	27.8	27.7	28.3	28.4	28.5
150°	27.9	28.0	28.3	28.3	27.7	27.6	27.6	27.6	28.3	28.4	28.4
150.5°	27.9	28.0	28.4	28.3	27.7	27.6	27.5	27.5	27.9	28.4	28.4
151°	27.9	28.0	28.4	28.3	27.7	27.6	27.5	27.5	27.7	28.4	28.4
151.5°	27.9	28.0	28.3	28.3	27.6	27.5	27.5	27.5	27.7	28.4	28.4
152°	27.9	27.9	28.3	28.3	27.6	27.4	27.4	27.5	27.7	28.3	28.3
152.5°	27.9	27.9	28.1	28.3	27.4	27.3	27.4	27.5	27.6	28.3	28.3
153°	27.9	27.8	28.1	28.2	27.5	27.3	27.4	27.5	27.6	28.3	28.3
153.5°	27.9	27.8	28.1	28.2	27.4	27.4	27.4	27.5	27.6	28.3	28.3
154°	27.9	27.8	28.1	28.2	27.4	27.3	27.4	27.5	27.6	28.2	28.3
154.5°	27.9	27.8	28.0	28.1	27.4	27.3	27.4	27.5	27.5	28.2	28.3
155°	27.9	27.8	27.9	28.1	27.4	27.3	27.5	27.5	27.5	28.2	28.3
155.5°	27.9	27.8	27.9	28.1	27.4	27.3	27.5	27.5	27.5	28.2	28.3
156°	27.9	27.7	27.9	28.1	27.4	27.3	27.3	27.5	27.5	28.2	28.3
156.5°	27.9	27.7	28.0	28.1	27.4	27.3	27.3	27.5	27.5	28.2	28.3
157°	27.8	27.7	27.9	28.1	27.4	27.3	27.4	27.5	27.5	28.0	28.3



TEST NUMBER: P601041
 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°	27.8	27.7	27.9	27.9	27.4	27.3	27.3	27.3	27.6	27.8	28.3
158°	27.8	27.4	27.8	27.9	27.4	27.3	27.3	27.4	27.6	27.7	28.3
158.5°	27.8	27.4	27.7	27.8	27.4	27.3	27.3	27.3	27.5	27.7	28.2
159°	27.7	27.4	27.5	27.7	27.4	27.3	27.1	27.2	27.5	27.7	27.9
159.5°	27.5	27.3	27.4	27.6	27.4	27.4	27.0	26.8	27.1	27.7	27.7
160°	27.4	27.3	27.3	27.5	27.4	27.4	26.8	26.7	26.9	27.4	27.5
160.5°	27.4	27.1	27.2	27.4	27.2	27.2	26.7	26.5	26.7	27.5	27.4
161°	27.3	27.0	27.2	27.4	26.9	26.9	26.5	26.5	26.5	27.2	27.4
161.5°	27.2	26.9	27.1	27.3	26.8	26.7	26.4	26.5	26.5	27.0	27.3
162°	27.1	26.9	26.9	27.1	26.6	26.5	26.4	26.1	26.5	26.8	27.3
162.5°	27.0	26.9	26.8	27.0	26.6	26.4	26.3	25.9	26.3	26.6	26.9
163°	26.9	26.7	26.7	26.8	26.6	26.4	26.2	25.8	26.0	26.5	26.8
163.5°	26.9	26.6	26.6	26.7	26.6	26.4	26.0	25.7	25.8	26.5	26.6
164°	26.8	26.4	26.5	26.5	26.0	26.0	25.8	25.6	25.8	26.3	26.5
164.5°	26.7	26.3	26.3	26.4	25.9	25.8	25.6	25.6	25.6	26.0	26.4
165°	26.6	26.2	26.1	26.2	25.8	25.7	25.4	25.4	25.6	25.7	26.4
165.5°	26.4	25.9	25.9	26.0	25.7	25.5	25.4	25.1	25.4	25.6	26.2
166°	26.2	25.8	25.7	25.8	25.5	25.5	25.0	25.0	25.1	25.5	25.7
166.5°	26.0	25.6	25.5	25.6	25.5	25.5	24.8	24.8	24.9	25.1	25.5
167°	25.8	25.4	25.3	25.5	25.2	25.2	24.6	24.7	24.7	24.9	25.4
167.5°	25.7	25.2	25.0	25.2	24.9	24.8	24.4	24.7	24.6	24.8	25.0
168°	25.4	24.9	24.7	24.7	24.5	24.4	24.0	24.1	24.4	24.6	24.8
168.5°	25.1	24.6	24.3	24.4	23.9	23.9	23.7	23.8	24.0	24.2	24.5
169°	24.7	24.2	23.9	24.0	23.7	23.7	23.6	23.7	23.9	24.1	24.2
169.5°	24.5	24.0	23.8	23.8	23.6	23.6	23.6	23.7	23.9	24.1	24.2
170°	24.5	24.0	23.8	23.8	23.6	23.6	23.6	23.8	23.9	24.1	24.2
170.5°	24.4	24.0	23.8	23.8	23.6	23.6	23.7	23.8	24.0	24.1	24.2
171°	24.7	24.6	25.0	24.9	24.1	23.9	24.0	24.1	24.2	24.2	24.2
171.5°	26.0	26.1	26.5	26.4	25.6	25.0	25.2	25.3	25.2	25.1	24.7
172°	27.4	27.6	27.7	27.6	27.1	26.6	26.8	27.0	26.7	26.5	26.1
172.5°	28.4	28.5	28.5	28.4	28.4	28.2	28.4	28.6	28.4	28.0	27.5
173°	29.2	29.1	29.1	29.2	29.4	29.1	29.4	29.6	29.3	29.0	28.6
173.5°	29.9	29.6	29.4	29.4	29.9	29.7	30.0	30.3	30.0	29.7	29.4
174°	30.3	30.3	29.8	29.6	30.5	30.2	30.5	30.6	30.6	30.3	30.0
174.5°	30.3	30.3	30.2	30.2	30.7	30.6	30.6	30.6	30.6	30.3	30.3
175°	30.3	30.3	30.4	30.3	30.8	30.8	30.6	30.6	30.5	30.3	30.2
175.5°	30.3	30.3	30.3	30.3	31.0	30.9	30.6	30.6	30.5	30.3	30.2
176°	30.4	30.3	30.3	30.3	31.0	30.9	30.6	30.6	30.5	30.3	30.2
176.5°	30.4	30.3	30.3	30.3	31.0	31.0	30.6	30.6	30.5	30.3	30.2
177°	30.4	30.3	30.3	30.3	31.1	31.0	30.6	30.6	30.5	30.3	30.2
177.5°	30.4	30.3	30.3	30.3	31.1	30.9	30.6	30.6	30.5	30.3	30.2
178°	30.4	30.3	30.3	30.3	31.2	30.9	30.6	30.6	30.5	30.3	30.2
178.5°	30.4	30.3	30.3	30.3	31.3	30.9	30.6	30.6	30.5	30.3	30.2
179°	30.4	30.3	30.3	30.3	31.3	31.0	30.6	30.6	30.5	30.3	30.2
179.5°	30.4	30.3	30.3	30.4	31.3	31.0	30.6	30.6	30.5	30.3	30.2



TEST NUMBER: P601041
CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3



TEST NUMBER: P601041
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	318.4	318.4	318.4	318.4	318.4	318.4
0.5°	318.4	318.4	318.5	317.6	318.6	318.4
1°	318.4	318.4	318.2	317.4	318.6	318.6
1.5°	317.8	318.4	318.2	317.6	318.7	319.2
2°	317.1	318.4	318.2	317.8	318.7	319.9
2.5°	316.7	318.4	318.2	318.0	318.7	320.1
3°	316.8	318.5	318.2	318.0	318.6	319.8
3.5°	316.9	318.5	318.1	317.2	318.7	319.3
4°	317.6	317.9	317.9	317.0	319.1	319.1
4.5°	317.6	317.5	317.5	317.0	319.2	318.9
5°	317.2	317.4	317.4	317.0	319.2	318.9
5.5°	316.2	317.3	317.4	317.0	318.9	318.7
6°	315.4	317.3	317.4	316.6	318.4	318.3
6.5°	315.2	317.3	317.4	316.2	317.7	318.1
7°	315.2	317.3	316.5	316.2	317.5	318.0
7.5°	315.2	316.6	316.2	316.2	317.6	318.0
8°	314.7	315.8	316.2	316.2	317.7	318.0
8.5°	314.0	315.6	316.1	315.5	317.8	317.6
9°	313.6	315.4	316.1	314.7	316.9	317.0
9.5°	313.0	315.0	315.4	314.5	315.9	316.5
10°	312.4	314.7	314.7	314.5	315.5	316.3
10.5°	312.4	314.4	314.0	314.5	315.5	316.3
11°	311.9	313.3	313.8	314.3	315.5	316.3
11.5°	311.4	312.3	313.4	313.9	315.5	315.6
12°	310.3	311.9	312.6	313.3	315.0	314.7
12.5°	309.5	311.9	312.3	312.2	314.2	313.9
13°	308.9	311.9	312.0	311.2	313.8	313.3
13.5°	308.6	310.8	311.1	310.6	313.6	313.2
14°	308.0	309.8	309.8	310.5	312.8	313.2
14.5°	308.1	309.3	309.2	310.5	311.7	313.0
15°	307.6	309.1	309.0	310.6	311.2	311.9
15.5°	306.4	308.4	308.9	310.2	310.8	310.5
16°	305.2	307.2	308.7	307.9	310.5	309.3
16.5°	304.3	306.4	308.2	306.6	310.2	308.9
17°	304.1	306.0	306.6	306.1	309.2	308.9
17.5°	303.6	305.7	305.0	305.8	307.9	308.9
18°	303.1	305.1	304.5	305.7	307.0	308.5
18.5°	302.2	303.3	304.5	305.5	306.3	307.0
19°	301.1	301.9	304.5	304.3	305.5	305.8
19.5°	299.6	301.1	303.4	303.0	304.4	305.1
20°	298.5	300.7	301.2	302.1	303.6	304.5
20.5°	297.8	300.1	299.7	301.5	303.0	303.6
21°	297.6	298.8	299.6	300.4	302.2	302.2
21.5°	297.0	297.1	299.5	298.9	301.2	301.2
22°	295.9	296.5	299.0	297.8	300.2	300.6



TEST NUMBER: P601041
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	294.1	295.9	297.5	297.3	299.6	299.8
23°	293.0	295.0	295.7	296.7	299.1	299.0
23.5°	292.7	293.8	294.5	295.5	298.0	298.2
24°	291.6	292.3	293.4	294.7	296.2	297.0
24.5°	289.9	291.4	292.5	293.8	295.0	295.9
25°	288.1	290.3	292.0	292.8	294.4	295.3
25.5°	286.7	288.8	290.9	291.6	293.4	294.3
26°	286.0	287.8	289.3	290.2	292.0	292.7
26.5°	285.7	287.4	288.3	288.8	290.9	290.8
27°	284.6	286.9	287.5	287.7	290.2	289.8
27.5°	283.0	285.7	286.6	286.7	289.2	289.3
28°	281.2	283.6	284.8	285.7	287.5	288.6
28.5°	279.8	281.8	283.1	284.7	286.0	287.7
29°	279.0	280.9	282.0	283.5	285.0	286.2
29.5°	278.1	280.1	281.3	282.1	284.0	284.7
30°	276.9	279.0	280.4	280.8	283.0	283.3
30.5°	275.3	277.4	279.1	279.8	281.6	282.2
31°	273.6	275.7	277.3	278.5	280.4	280.9
31.5°	272.1	274.0	275.2	276.7	279.4	279.0
32°	270.7	272.6	273.7	275.0	278.4	276.9
32.5°	268.9	271.5	272.8	273.7	276.9	275.5
33°	267.3	270.3	271.5	272.6	274.9	274.6
33.5°	266.1	268.7	269.9	271.3	273.1	274.0
34°	265.0	266.5	268.4	269.8	271.6	273.0
34.5°	263.5	265.0	267.0	268.1	270.4	271.1
35°	261.6	263.9	265.7	266.7	268.8	269.1
35.5°	259.9	262.6	264.3	265.8	267.4	267.4
36°	258.9	261.1	263.0	264.9	266.3	265.8
36.5°	257.8	259.5	261.3	263.4	264.4	264.3
37°	256.5	257.7	259.5	261.2	262.3	262.9
37.5°	254.8	256.1	257.7	259.4	260.9	261.6
38°	252.3	254.5	256.1	258.0	259.7	260.4
38.5°	249.9	252.7	254.5	256.7	258.4	258.9
39°	248.7	250.8	253.2	254.9	257.0	257.1
39.5°	247.9	249.0	251.6	252.9	255.4	255.0
40°	246.3	247.3	250.0	251.0	253.3	253.3
40.5°	244.0	246.1	248.1	249.5	251.3	251.9
41°	241.5	244.4	246.0	248.2	249.6	250.4
41.5°	239.6	242.4	244.3	246.5	248.2	248.5
42°	238.4	240.2	243.0	245.0	246.7	246.5
42.5°	236.8	238.5	241.6	243.4	244.8	244.7
43°	234.9	237.0	239.3	241.7	243.0	243.5
43.5°	233.2	235.3	237.0	239.7	241.4	242.1
44°	231.3	233.1	235.2	237.7	239.6	239.7
44.5°	229.5	231.3	233.6	235.5	237.8	237.1



TEST NUMBER: P601041
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	227.4	229.7	232.1	233.7	236.3	235.4
45.5°	225.5	228.1	230.6	231.9	234.5	234.2
46°	223.7	226.5	228.4	230.1	232.4	232.8
46.5°	222.1	224.5	226.6	228.3	230.3	231.3
47°	220.2	222.2	224.8	226.9	228.6	229.1
47.5°	218.2	220.2	223.1	225.5	227.2	227.0
48°	216.2	218.5	221.2	223.8	225.5	224.8
48.5°	214.2	216.9	219.4	221.3	223.2	222.7
49°	212.3	215.0	217.5	218.7	221.2	220.9
49.5°	210.7	212.6	215.8	216.7	219.5	219.3
50°	208.7	210.3	213.3	215.3	217.8	217.8
50.5°	206.5	208.5	211.2	213.9	215.9	216.0
51°	204.7	207.1	209.4	212.4	213.7	213.7
51.5°	203.0	205.3	207.4	210.0	211.6	211.8
52°	200.9	202.9	205.4	207.3	209.6	209.4
52.5°	198.9	200.5	203.5	205.2	207.6	207.1
53°	197.0	198.7	201.6	203.5	205.4	205.3
53.5°	195.1	197.0	199.5	202.0	203.3	203.6
54°	192.8	195.2	197.7	200.5	201.2	202.0
54.5°	190.8	193.7	195.7	198.4	199.3	200.0
55°	189.3	191.6	193.9	196.4	197.8	198.0
55.5°	187.4	189.0	191.7	194.3	196.0	196.0
56°	185.5	186.8	189.6	192.3	193.9	194.1
56.5°	183.4	185.0	187.7	190.3	191.7	191.8
57°	181.0	183.3	186.3	188.3	189.5	189.5
57.5°	178.9	181.1	184.4	186.0	187.8	187.8
58°	177.0	179.0	182.1	183.9	186.3	186.2
58.5°	175.3	176.8	180.1	182.0	184.3	184.3
59°	173.4	174.9	178.3	180.0	182.1	181.9
59.5°	171.1	173.2	176.3	178.0	180.0	179.8
60°	168.5	171.6	174.1	176.1	177.8	177.4
60.5°	166.4	169.3	171.9	174.2	175.9	175.2
61°	164.8	166.9	170.1	172.3	173.8	173.3
61.5°	163.4	164.8	168.2	170.1	171.8	171.4
62°	161.6	162.9	166.1	168.1	169.9	169.5
62.5°	159.0	160.9	163.9	165.9	168.1	167.4
63°	156.4	158.9	161.8	164.0	166.0	165.2
63.5°	154.2	156.9	159.9	162.0	163.9	163.1
64°	152.8	155.0	157.8	159.9	161.8	161.1
64.5°	151.4	153.2	155.8	157.9	159.7	159.2
65°	149.4	151.1	153.8	156.1	157.4	157.3
65.5°	147.1	149.1	152.0	154.0	155.0	155.2
66°	144.6	146.8	150.2	152.1	153.0	153.3
66.5°	142.6	144.8	148.1	150.1	151.2	151.1
67°	141.1	142.9	146.0	148.0	149.4	149.0



TEST NUMBER: P601041
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	139.3	141.1	144.0	145.8	147.2	146.8
68°	137.5	139.1	142.1	143.8	145.3	144.8
68.5°	135.1	137.0	140.0	142.0	143.5	143.0
69°	133.1	134.9	138.0	140.0	141.5	141.2
69.5°	131.1	133.0	136.0	138.1	139.3	139.3
70°	129.3	131.3	134.2	136.0	137.4	137.0
70.5°	127.5	129.4	132.1	134.3	135.3	134.9
71°	125.8	127.4	130.2	132.4	133.2	133.1
71.5°	123.9	125.4	128.3	130.5	131.3	131.1
72°	121.9	123.6	126.3	128.6	129.3	129.1
72.5°	119.7	121.8	124.4	126.7	127.5	127.4
73°	117.7	119.9	122.5	124.7	125.8	125.2
73.5°	115.9	118.1	120.6	122.8	124.1	123.4
74°	114.3	116.2	118.7	120.5	121.9	121.3
74.5°	112.5	114.3	117.0	118.6	119.8	119.3
75°	110.8	112.4	115.1	116.8	117.7	117.4
75.5°	108.8	110.5	113.2	115.2	115.9	115.6
76°	107.1	108.9	111.2	113.5	114.1	113.8
76.5°	105.4	107.1	109.4	111.4	112.3	112.0
77°	103.5	105.2	107.8	109.5	110.3	110.0
77.5°	101.8	103.3	106.0	107.6	108.5	108.1
78°	100.0	101.5	104.3	105.8	106.7	106.2
78.5°	98.3	99.7	102.4	104.3	105.0	104.4
79°	96.5	98.0	100.7	102.7	103.4	102.7
79.5°	94.7	96.5	99.0	100.7	101.5	101.1
80°	93.0	94.8	97.5	98.7	99.5	99.3
80.5°	91.5	93.0	95.8	97.1	97.7	97.7
81°	89.9	91.2	93.9	95.4	96.1	95.8
81.5°	88.3	89.6	92.0	93.8	94.6	94.1
82°	86.7	88.2	90.6	92.0	92.9	92.2
82.5°	85.0	86.7	89.1	90.2	90.9	90.5
83°	83.4	85.0	87.4	88.7	89.1	88.9
83.5°	81.8	83.5	85.9	87.0	87.6	87.4
84°	80.4	82.0	84.2	85.6	86.1	85.8
84.5°	79.0	80.7	82.6	84.1	84.6	84.2
85°	77.6	79.4	81.1	82.4	83.1	82.7
85.5°	76.1	77.8	79.8	80.7	81.4	81.0
86°	74.6	76.2	78.6	79.3	79.9	79.5
86.5°	73.3	74.7	77.0	78.1	78.7	78.1
87°	71.8	73.4	75.3	76.9	77.3	76.7
87.5°	70.6	72.3	74.1	75.5	75.8	75.4
88°	69.4	71.0	72.8	74.1	74.2	74.0
88.5°	68.1	69.5	71.6	72.4	72.7	72.5
89°	66.8	68.1	70.3	71.1	71.6	71.0
89.5°	65.3	66.9	68.7	69.8	70.2	69.7



TEST NUMBER: P601041
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	64.1	65.9	67.7	68.6	69.0	68.5
90.5°	63.1	64.7	66.3	67.5	67.7	67.2
91°	61.8	63.4	65.2	66.1	66.3	66.0
91.5°	60.6	62.0	63.9	64.7	65.1	64.5
92°	59.5	60.9	62.6	63.5	64.0	63.3
92.5°	58.3	59.7	61.4	62.5	62.6	62.1
93°	57.1	58.8	60.4	61.5	61.5	61.1
93.5°	56.0	57.9	59.3	60.3	60.4	60.0
94°	55.0	56.7	58.2	59.1	59.4	58.8
94.5°	53.9	55.6	57.1	57.9	58.2	57.6
95°	53.0	54.5	55.9	56.8	57.0	56.5
95.5°	52.1	53.6	55.0	55.8	55.9	55.5
96°	51.2	52.6	54.2	54.8	54.9	54.5
96.5°	50.2	51.8	53.3	53.9	54.1	53.5
97°	49.2	51.0	52.1	52.9	53.2	52.3
97.5°	48.5	50.0	51.0	51.9	52.1	51.4
98°	47.6	49.2	50.1	51.0	51.1	50.5
98.5°	46.6	48.2	49.4	50.1	50.1	49.7
99°	45.7	47.2	48.6	49.4	49.4	48.8
99.5°	44.8	46.5	47.7	48.4	48.4	47.9
100°	44.0	45.7	46.9	47.6	47.5	47.0
100.5°	43.2	45.0	46.0	46.7	46.7	46.2
101°	42.5	44.2	45.3	45.9	46.0	45.3
101.5°	42.0	43.5	44.6	45.2	45.1	44.6
102°	41.2	42.7	43.7	44.4	44.3	43.8
102.5°	40.4	41.7	42.9	43.6	43.5	43.0
103°	39.7	41.2	42.3	42.8	42.7	42.0
103.5°	39.2	40.6	41.6	42.0	42.1	41.4
104°	38.5	40.0	40.9	41.3	41.4	40.7
104.5°	37.9	39.4	40.3	40.8	40.6	40.3
105°	37.4	38.8	39.6	40.1	40.0	39.6
105.5°	36.5	38.2	39.0	39.3	39.4	38.8
106°	36.0	37.5	38.4	38.8	38.7	38.2
106.5°	35.6	36.9	38.0	38.3	38.1	37.6
107°	35.0	36.3	37.3	37.8	37.5	37.0
107.5°	34.6	35.8	36.6	37.2	37.0	36.4
108°	33.9	35.4	36.1	36.5	36.4	35.8
108.5°	33.7	34.9	35.6	35.9	35.8	35.3
109°	33.0	34.4	35.1	35.4	35.3	34.8
109.5°	32.8	33.9	34.6	34.8	34.8	34.3
110°	32.1	33.4	34.2	34.3	34.3	33.8
110.5°	31.8	33.0	33.6	33.9	33.8	33.3
111°	31.1	32.6	33.1	33.4	33.4	32.8
111.5°	30.9	32.1	32.6	33.0	33.0	32.4
112°	30.4	31.8	32.2	32.5	32.5	31.9



TEST NUMBER: P601041
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	30.1	31.4	31.9	32.1	32.0	31.6
113°	29.9	31.1	31.5	31.7	31.6	31.3
113.5°	29.2	30.7	31.1	31.4	31.3	30.8
114°	29.1	30.3	30.7	30.9	30.9	30.5
114.5°	28.9	29.9	30.5	30.6	30.6	30.1
115°	28.4	29.7	30.1	30.3	30.2	29.7
115.5°	28.3	29.4	29.8	29.9	29.9	29.5
116°	27.7	29.1	29.5	29.6	29.6	29.2
116.5°	27.5	28.8	29.2	29.3	29.2	28.8
117°	27.2	28.4	28.9	29.0	29.0	28.5
117.5°	27.2	28.3	28.6	28.8	28.6	28.2
118°	26.8	28.0	28.4	28.4	28.3	28.0
118.5°	26.6	27.9	28.1	28.2	28.1	27.8
119°	26.4	27.7	27.9	28.0	27.9	27.5
119.5°	26.3	27.5	27.7	27.8	27.7	27.4
120°	26.0	27.3	27.5	27.6	27.5	27.2
120.5°	25.9	27.2	27.3	27.3	27.3	27.0
121°	25.7	27.0	27.2	27.2	27.2	26.8
121.5°	25.6	26.8	27.0	27.0	27.0	26.6
122°	25.5	26.6	26.9	26.8	26.8	26.4
122.5°	25.5	26.6	26.6	26.7	26.5	26.3
123°	25.5	26.6	26.5	26.5	26.3	26.1
123.5°	25.4	26.5	26.4	26.4	26.2	25.9
124°	25.4	26.2	26.3	26.3	26.2	25.8
124.5°	25.3	26.1	26.2	26.2	26.1	25.7
125°	25.3	26.0	26.1	26.0	26.0	25.7
125.5°	25.3	26.0	25.9	25.9	25.8	25.6
126°	25.3	26.0	25.9	25.9	25.7	25.6
126.5°	25.3	25.9	25.9	25.8	25.7	25.6
127°	25.3	25.9	25.9	25.7	25.5	25.4
127.5°	25.3	25.8	25.8	25.7	25.5	25.4
128°	25.3	25.8	25.8	25.7	25.5	25.4
128.5°	25.3	25.8	25.8	25.7	25.4	25.3
129°	25.4	25.8	25.7	25.6	25.4	25.3
129.5°	25.4	25.8	25.7	25.6	25.5	25.3
130°	25.4	25.8	25.7	25.6	25.4	25.3
130.5°	25.5	25.8	25.7	25.6	25.4	25.3
131°	25.6	25.8	25.7	25.6	25.4	25.3
131.5°	25.7	25.8	25.7	25.6	25.4	25.3
132°	25.8	25.8	25.7	25.6	25.4	25.3
132.5°	25.8	25.8	25.7	25.6	25.4	25.3
133°	25.8	25.8	25.7	25.6	25.4	25.3
133.5°	26.0	25.8	25.7	25.6	25.5	25.3
134°	26.0	25.9	25.7	25.6	25.5	25.3
134.5°	26.0	25.9	25.8	25.6	25.6	25.3



TEST NUMBER: P601041
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	26.1	25.9	25.8	25.6	25.6	25.3
135.5°	26.2	26.0	25.8	25.6	25.7	25.5
136°	26.4	26.4	25.9	25.7	25.7	25.6
136.5°	26.4	26.6	26.1	25.7	25.7	25.6
137°	26.4	26.6	26.3	25.8	25.8	25.7
137.5°	26.6	26.6	26.4	26.1	25.9	25.8
138°	26.7	26.6	26.5	26.4	26.2	26.0
138.5°	26.8	26.8	26.5	26.4	26.4	26.0
139°	27.0	27.0	26.6	26.5	26.5	26.4
139.5°	27.1	27.4	26.9	26.7	26.5	26.6
140°	27.3	27.4	27.1	26.7	26.6	26.5
140.5°	27.4	27.4	27.3	26.9	26.8	26.7
141°	27.5	27.6	27.3	27.2	26.9	26.7
141.5°	27.7	27.8	27.4	27.3	27.0	26.8
142°	27.9	27.9	27.6	27.3	27.2	26.9
142.5°	28.0	28.2	27.7	27.5	27.4	27.4
143°	28.2	28.4	28.0	27.6	27.4	27.5
143.5°	28.4	28.4	28.0	27.6	27.5	27.5
144°	28.5	28.4	28.2	27.8	27.6	27.5
144.5°	28.6	28.4	28.3	28.3	27.7	27.5
145°	28.6	28.5	28.3	28.3	27.8	27.5
145.5°	28.5	28.7	28.4	28.3	28.1	27.5
146°	28.5	28.7	28.6	28.3	28.2	27.6
146.5°	28.5	28.8	28.6	28.4	28.3	28.0
147°	28.5	28.9	28.7	28.5	28.3	28.0
147.5°	28.5	29.2	28.8	28.7	28.3	27.9
148°	28.5	29.2	29.1	28.8	28.3	27.9
148.5°	28.5	29.2	29.2	28.9	28.3	27.9
149°	28.5	29.4	29.2	29.0	28.3	27.9
149.5°	28.5	29.4	29.1	28.9	28.3	27.9
150°	28.3	29.3	29.1	28.9	28.3	27.9
150.5°	28.3	29.3	29.1	28.9	28.3	27.9
151°	28.3	29.3	29.1	28.9	28.3	27.9
151.5°	28.3	29.3	29.1	29.0	28.3	27.9
152°	28.3	29.3	29.1	29.0	28.3	27.9
152.5°	28.2	29.3	29.1	28.9	28.3	27.9
153°	28.1	29.4	29.1	28.7	28.3	27.9
153.5°	28.1	29.4	29.2	28.8	28.3	27.9
154°	28.1	29.2	29.1	28.8	28.3	27.9
154.5°	28.1	29.2	29.0	28.7	28.2	27.9
155°	28.1	29.2	29.0	28.7	28.2	27.9
155.5°	28.1	29.1	29.0	28.7	28.2	27.9
156°	28.0	29.1	29.0	28.7	28.2	27.9
156.5°	28.0	29.1	29.0	28.8	28.1	27.9
157°	28.0	29.1	28.9	28.8	28.1	27.8



TEST NUMBER: P601041
 CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	28.0	29.0	28.9	28.7	28.2	27.8
158°	28.0	29.0	29.0	28.6	28.2	27.8
158.5°	27.9	28.9	28.8	28.5	28.0	27.8
159°	27.8	28.9	28.8	28.5	27.9	27.7
159.5°	27.7	28.9	28.8	28.4	27.9	27.5
160°	27.6	28.9	28.8	28.3	27.9	27.4
160.5°	27.5	28.9	28.6	28.2	27.7	27.4
161°	27.4	28.7	28.4	28.0	27.6	27.3
161.5°	27.4	28.4	28.3	27.9	27.5	27.2
162°	27.3	28.2	28.1	27.7	27.3	27.1
162.5°	27.0	28.1	28.0	27.6	27.2	27.0
163°	26.8	28.1	27.9	27.5	27.2	26.9
163.5°	26.7	27.9	27.7	27.4	27.2	26.9
164°	26.6	27.7	27.6	27.2	27.0	26.8
164.5°	26.6	27.6	27.5	27.1	26.8	26.7
165°	26.4	27.5	27.4	26.9	26.8	26.6
165.5°	26.4	27.4	27.3	26.8	26.6	26.4
166°	26.1	27.2	27.0	26.5	26.5	26.2
166.5°	25.7	27.2	26.8	26.4	26.3	26.0
167°	25.6	27.0	26.5	26.2	26.1	25.8
167.5°	25.4	26.8	26.2	26.1	25.9	25.7
168°	25.3	26.4	26.1	25.8	25.6	25.4
168.5°	24.9	26.1	25.7	25.5	25.4	25.1
169°	24.5	25.7	25.3	25.2	25.1	24.7
169.5°	24.2	25.3	24.9	24.9	24.7	24.5
170°	24.2	24.9	24.7	24.6	24.6	24.5
170.5°	24.2	24.7	24.7	24.6	24.6	24.4
171°	24.3	24.8	24.7	24.6	24.6	24.7
171.5°	24.6	25.5	25.4	25.2	25.8	26.0
172°	25.7	27.0	26.8	26.7	27.2	27.4
172.5°	27.3	28.2	28.1	28.0	28.3	28.4
173°	28.5	29.1	28.9	28.9	29.2	29.2
173.5°	29.3	29.7	29.5	29.4	29.7	29.9
174°	29.9	30.1	30.2	30.1	30.2	30.3
174.5°	30.3	30.2	30.2	30.1	30.4	30.3
175°	30.3	30.2	30.2	30.1	30.5	30.3
175.5°	30.3	30.3	30.2	30.2	30.5	30.3
176°	30.3	30.3	30.2	30.2	30.5	30.4
176.5°	30.3	30.5	30.3	30.4	30.5	30.4
177°	30.3	30.6	30.3	30.4	30.5	30.4
177.5°	30.3	30.6	30.4	30.4	30.5	30.4
178°	30.3	30.6	30.4	30.5	30.5	30.4
178.5°	30.3	30.6	30.5	30.5	30.5	30.4
179°	30.3	30.7	30.6	30.5	30.5	30.4
179.5°	30.3	30.7	30.7	30.5	30.5	30.4



TEST NUMBER: P601041
CATALOG NUMBER: FM119S1EWHR_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	30.3	30.3	30.3	30.3	30.3	30.3

(END OF REPORT)