

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: P601020

Luminaire Tested: FM89S1EWHR\_5000K

Issue Date: 3/13/2023

**Test Information**

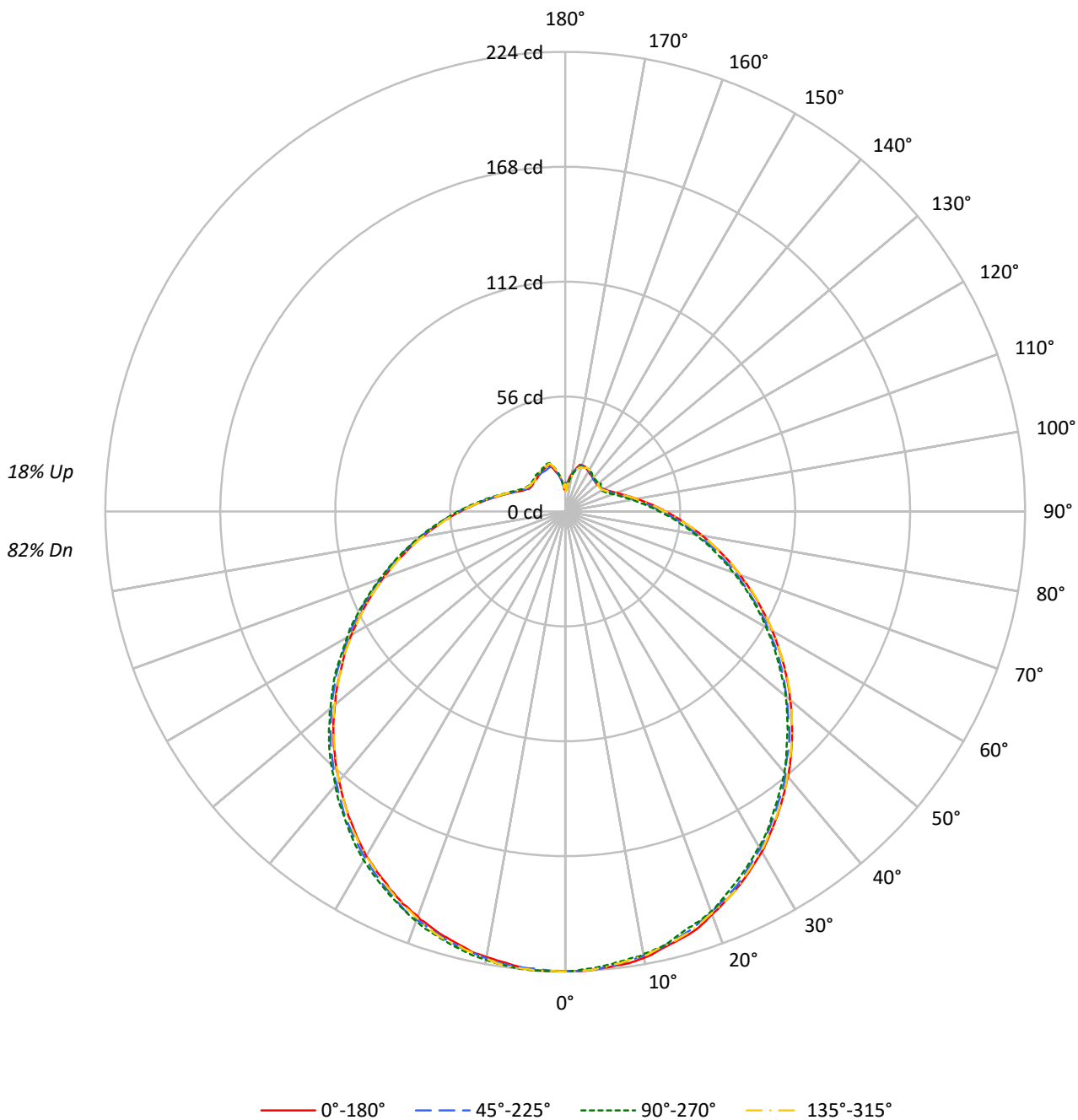
Test Method: LM-79-2019  
Report Number: P601020  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2117574A001)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: FM89S1EWHR\_5000K  
Description: FM89S1EWHR at 5000K  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 951.4 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.41  
Luminous Opening: Vertical Cylinder (Dia: 0.75' x H: 0.33')  
CIE Type: Semi-Direct  
  
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### 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	110	110	110	110	101	101	101	93	93	93	86	86	86	82
1	102	96	91	86	97	92	88	83	85	81	77	78	75	72	71	69	67	63
2	92	83	75	69	87	79	72	66	73	67	62	67	62	58	61	57	54	51
3	83	72	63	56	79	69	61	54	63	57	51	58	53	48	53	49	45	42
4	76	63	54	47	72	61	52	46	56	49	43	51	45	40	47	42	38	35
5	70	56	47	40	66	54	45	39	50	42	37	46	40	35	42	37	33	30
6	64	50	41	35	61	48	40	34	45	37	32	41	35	30	38	33	29	26
7	59	45	37	30	56	44	35	30	41	33	28	38	31	27	35	29	25	23
8	55	41	33	27	53	40	32	26	37	30	25	34	28	24	32	27	23	20
9	51	38	30	24	49	37	29	23	34	27	22	32	26	21	30	24	20	18
10	48	35	27	22	46	34	26	21	31	25	20	29	23	19	27	22	18	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	5460	5460	5460	5460
5°	5204	5181	5213	5225
10°	4974	4931	4967	4999
15°	4733	4685	4739	4781
20°	4503	4469	4523	4574
25°	4284	4229	4323	4367
30°	4071	4016	4122	4173
35°	3854	3792	3907	3967
40°	3652	3594	3708	3769
45°	3452	3379	3522	3591
50°	3255	3189	3328	3393
55°	3065	2983	3143	3221
60°	2881	2797	2970	3032
65°	2708	2621	2800	2862
70°	2542	2452	2643	2696
75°	2403	2293	2494	2549
80°	2274	2160	2371	2415
85°	2175	2062	2273	2318

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 270°  
 Vertical Angle: 45°  
 Luminance: 3591 cd/sqm



TEST NUMBER: P601020  
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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.2	2.2
10°-20°	61.0	6.4
20°-30°	93.0	9.8
30°-40°	113.8	12.0
40°-50°	121.7	12.8
50°-60°	117.7	12.4
60°-70°	104.0	10.9
70°-80°	84.7	8.9
80°-90°	64.1	6.7
90°-100°	46.1	4.8
100°-110°	32.6	3.4
110°-120°	23.7	2.5
120°-130°	19.0	2.0
130°-140°	16.4	1.7
140°-150°	14.0	1.5
150°-160°	10.8	1.1
160°-170°	6.2	0.6
170°-180°	1.5	0.2
0°-30°	175.2	18.4
0°-40°	289.0	30.4
0°-60°	528.4	55.5
0°-90°	781.2	82.1
90°-120°	102.4	10.8
90°-150°	151.8	16.0
90°-180°	170.0	17.9
0°-180°	951.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	224	224	224	224	224	
5°	223	222	224	224	223	21
15°	216	214	216	218	216	61
25°	201	198	203	205	201	93
35°	180	178	183	186	180	113
45°	156	153	160	163	156	121
55°	130	126	133	136	130	116
65°	103	100	107	109	103	102
75°	79	75	82	84	79	83
85°	58	55	60	61	58	49
90°	49	46	51	52	49	27
95°	42	39	43	44	42	33
105°	30	28	31	32	30	32
115°	24	22	24	25	24	24
125°	21	21	21	22	21	19
135°	21	21	21	22	21	16
145°	22	23	22	23	22	14
155°	24	24	23	24	24	11
165°	22	21	21	23	22	6
175°	14	12	14	14	14	2
180°	13	13	13	13	13	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	224.1	224.1	224.1	224.1	224.1	224.1	224.1	224.1	224.1	224.1	224.1
0.5°	224.1	224.1	224.1	224.1	224.0	224.1	224.0	224.1	224.1	224.1	224.0
1°	224.1	224.1	224.1	224.0	224.0	224.0	224.1	224.1	224.1	224.1	223.9
1.5°	224.1	224.1	224.1	224.0	223.8	224.0	224.0	224.1	224.1	224.1	224.0
2°	224.1	224.1	224.1	224.1	223.5	223.6	224.0	224.1	224.1	224.1	223.8
2.5°	224.1	224.1	224.0	224.0	223.2	223.3	223.9	224.1	224.1	224.1	223.7
3°	224.0	223.8	223.9	223.5	223.1	223.1	223.9	224.0	224.1	223.9	223.7
3.5°	223.8	223.5	223.7	223.2	222.9	222.9	223.7	223.9	224.1	223.9	223.6
4°	223.5	223.3	223.6	223.1	222.7	222.7	223.4	223.4	224.1	223.6	223.3
4.5°	223.4	223.1	223.3	222.9	222.4	222.6	223.1	223.1	223.9	223.3	223.4
5°	223.2	222.8	223.0	222.6	222.2	222.2	222.9	222.8	223.6	223.1	223.3
5.5°	223.1	222.7	222.7	222.5	221.9	222.0	222.6	222.5	223.2	222.9	223.2
6°	222.8	222.5	222.4	222.4	221.7	221.8	222.2	222.2	222.9	222.7	223.1
6.5°	222.6	222.2	222.1	222.3	221.2	221.7	221.9	221.9	222.6	222.5	223.0
7°	222.6	221.9	221.8	222.2	221.0	221.4	221.7	221.7	222.2	222.2	222.8
7.5°	222.5	221.6	221.5	221.9	220.7	221.0	221.2	221.6	221.9	222.0	222.7
8°	222.4	221.2	221.2	221.5	220.3	220.6	220.9	221.2	221.6	221.8	222.6
8.5°	222.0	220.9	220.9	220.9	220.0	220.2	220.7	220.9	221.4	221.7	222.2
9°	221.7	220.5	220.6	220.3	219.8	219.9	220.4	220.7	221.0	221.5	222.0
9.5°	221.3	220.1	220.2	219.7	219.8	219.9	220.0	220.6	220.8	221.1	221.8
10°	220.9	219.9	219.8	219.0	219.0	219.1	219.8	220.2	220.6	220.8	221.2
10.5°	220.5	219.4	219.3	218.6	218.7	218.6	219.8	219.9	220.1	220.4	220.8
11°	220.1	219.0	219.0	218.4	218.6	218.4	218.9	219.6	219.9	219.9	220.5
11.5°	219.4	218.5	218.6	218.3	218.0	217.9	218.5	219.0	219.8	219.6	220.0
12°	218.8	217.9	218.1	218.0	217.6	217.6	217.9	218.5	219.4	219.7	219.7
12.5°	218.2	217.4	217.5	217.9	217.2	217.0	217.5	217.9	218.7	218.7	219.7
13°	217.7	216.8	216.9	217.5	216.6	216.5	217.1	217.4	218.1	218.3	218.9
13.5°	217.2	216.3	216.4	216.9	216.0	215.9	216.6	216.9	217.6	217.9	218.5
14°	216.8	215.8	215.8	216.3	215.2	215.4	216.3	216.6	217.1	217.6	218.1
14.5°	216.3	215.4	215.2	215.6	214.4	214.9	215.8	216.2	216.6	217.2	217.6
15°	215.8	215.0	214.8	214.9	213.6	214.5	215.2	215.6	216.1	216.6	217.2
15.5°	215.4	214.4	214.2	214.2	213.0	214.1	214.7	215.2	215.6	216.2	216.7
16°	215.0	213.9	213.6	213.5	212.2	213.5	214.3	214.8	215.2	215.5	216.1
16.5°	214.5	213.2	213.1	212.8	211.6	212.9	213.6	214.3	214.7	215.1	215.5
17°	213.9	212.6	212.5	212.0	211.3	212.2	212.9	213.8	214.1	214.5	214.9
17.5°	213.3	211.8	211.7	211.4	210.5	211.5	212.3	213.2	213.4	214.0	214.3
18°	212.6	211.1	210.9	210.6	210.2	211.3	211.4	212.6	212.7	213.3	213.6
18.5°	211.8	210.4	210.2	209.8	209.5	210.2	210.7	212.1	212.1	212.8	213.2
19°	210.9	209.6	209.4	209.3	208.9	209.5	209.9	211.2	211.4	212.1	212.6
19.5°	209.9	208.9	208.6	208.8	208.3	208.9	209.1	210.3	211.2	211.4	212.2
20°	209.1	208.2	207.8	208.1	207.5	208.2	208.5	209.4	210.0	211.0	211.8
20.5°	208.3	207.5	207.1	207.4	207.0	207.4	207.8	208.5	209.3	210.0	211.4
21°	207.6	206.9	206.3	206.5	205.9	207.0	207.1	207.9	208.8	209.3	211.1
21.5°	206.7	206.1	205.5	205.7	204.9	205.9	206.4	207.1	208.0	208.7	210.1
22°	205.8	205.3	204.7	204.8	203.9	204.9	205.9	206.3	207.3	207.8	209.3



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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°	205.1	204.3	204.0	203.8	202.9	203.8	205.1	205.7	207.0	207.1	208.4
23°	204.3	203.5	203.3	202.8	202.0	202.8	204.4	204.7	205.9	206.7	207.5
23.5°	203.5	202.6	202.4	201.8	201.1	201.8	203.6	203.9	205.1	205.7	206.8
24°	202.7	201.7	201.6	200.9	200.1	201.0	202.8	203.1	204.1	205.0	205.7
24.5°	201.8	200.7	200.8	200.0	199.3	200.1	201.8	202.5	203.4	204.3	204.8
25°	201.0	199.9	199.9	199.0	198.4	199.4	200.8	201.6	202.8	203.6	203.9
25.5°	200.0	198.9	198.8	198.0	197.4	198.4	199.7	200.8	201.5	202.6	203.1
26°	199.1	197.9	197.8	197.0	196.5	197.5	198.6	200.0	200.6	201.7	202.4
26.5°	198.2	197.0	196.6	196.0	195.5	196.4	197.6	199.3	199.9	200.8	201.4
27°	197.2	196.1	195.6	195.1	194.7	195.4	196.6	198.4	199.0	199.8	200.6
27.5°	196.2	195.2	194.6	194.2	193.6	194.5	195.7	197.5	198.2	198.9	199.7
28°	195.2	194.1	193.6	193.2	192.7	193.4	194.8	196.5	197.3	198.0	198.8
28.5°	194.3	193.2	192.5	192.3	191.7	192.4	193.9	195.3	196.3	197.2	197.8
29°	193.3	192.3	191.6	191.6	190.7	191.5	193.0	194.2	195.5	196.1	196.8
29.5°	192.4	191.3	190.8	190.4	189.7	190.6	191.9	193.1	194.6	195.1	195.9
30°	191.5	190.5	189.8	189.3	188.9	189.8	190.9	192.0	193.9	194.2	194.9
30.5°	190.6	189.2	188.7	188.3	187.9	188.7	190.1	190.9	192.7	193.1	194.1
31°	189.4	188.1	187.6	187.2	187.0	187.7	188.9	190.2	191.7	192.1	193.0
31.5°	188.2	187.0	186.6	186.0	185.9	186.7	187.8	189.0	190.6	191.0	192.0
32°	187.1	185.8	185.4	184.8	184.8	185.8	186.7	188.0	189.6	190.1	191.0
32.5°	185.9	184.8	184.3	183.7	183.7	184.6	185.7	186.9	188.5	189.2	190.2
33°	184.9	183.8	183.1	182.5	182.5	183.6	184.5	185.8	187.3	188.3	189.1
33.5°	183.8	182.6	182.0	181.4	181.2	182.5	183.5	184.7	186.2	187.3	188.0
34°	182.6	181.6	180.9	180.3	179.8	181.5	182.5	183.7	185.0	186.6	187.0
34.5°	181.5	180.5	179.6	179.2	178.7	180.4	181.3	182.6	183.9	185.6	185.9
35°	180.4	179.4	178.5	178.0	177.5	179.2	180.1	181.6	182.9	184.4	184.9
35.5°	179.2	178.4	177.3	177.0	176.3	178.0	178.9	180.4	181.9	183.3	183.9
36°	178.1	177.3	176.2	176.0	175.2	176.8	177.9	179.4	180.6	182.2	182.8
36.5°	176.9	176.1	175.1	174.9	174.0	175.4	176.9	178.4	179.5	181.0	181.6
37°	175.8	175.1	174.0	173.8	172.9	174.0	175.8	177.2	178.4	179.9	180.3
37.5°	174.6	173.9	173.0	172.7	171.7	172.8	174.7	176.1	177.4	178.7	179.1
38°	173.5	172.7	171.9	171.6	170.6	171.6	173.5	174.8	176.1	177.6	177.9
38.5°	172.2	171.4	170.7	170.2	169.6	170.4	172.3	173.5	174.9	176.4	176.9
39°	171.0	170.0	169.6	169.0	168.4	169.2	171.0	172.3	173.7	175.2	175.7
39.5°	169.9	168.6	168.2	167.5	167.3	168.0	169.7	171.1	172.5	174.1	174.5
40°	168.8	167.4	166.8	166.2	166.1	166.8	168.4	169.9	171.4	172.9	173.4
40.5°	167.7	166.0	165.4	164.7	164.8	165.7	167.1	168.8	170.2	171.6	172.4
41°	166.4	164.8	163.9	163.5	163.5	164.5	165.9	167.7	169.1	170.3	171.2
41.5°	165.2	163.4	162.7	162.2	162.2	163.3	164.7	166.5	168.0	169.0	170.0
42°	163.8	162.2	161.5	161.1	160.8	162.0	163.6	165.4	166.8	167.8	168.8
42.5°	162.6	161.0	160.4	159.8	159.5	160.6	162.4	164.3	165.6	166.6	167.4
43°	161.4	159.5	159.3	158.5	158.0	159.4	161.2	163.1	164.3	165.2	166.2
43.5°	160.0	158.3	158.1	157.3	156.8	158.1	159.9	161.9	163.0	163.9	165.0
44°	158.7	157.3	157.0	156.0	155.5	156.8	158.5	160.6	161.8	162.6	163.8
44.5°	157.5	156.0	155.7	154.8	154.3	155.6	157.3	159.4	160.7	161.5	162.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	156.3	154.7	154.4	153.5	153.0	154.3	156.1	157.9	159.5	160.3	161.4
45.5°	155.0	153.5	153.1	152.1	152.0	153.1	154.7	156.6	158.2	158.9	160.2
46°	153.7	152.3	151.8	150.8	150.5	152.0	153.5	155.4	156.9	157.6	158.8
46.5°	152.4	150.8	150.3	149.4	149.3	150.6	152.3	154.1	155.7	156.5	157.5
47°	151.0	149.6	148.8	148.1	147.9	149.2	151.0	152.7	154.4	155.3	156.4
47.5°	149.7	148.2	147.4	146.8	146.7	148.0	149.8	151.4	153.1	154.0	155.0
48°	148.3	146.9	146.1	145.6	145.4	146.7	148.5	150.1	151.8	152.8	153.6
48.5°	147.0	145.5	144.7	144.3	144.1	145.4	147.3	148.9	150.4	151.7	152.3
49°	145.8	144.4	143.5	142.9	142.8	144.1	146.0	147.6	149.0	150.3	151.0
49.5°	144.5	143.0	142.1	141.6	141.6	142.9	144.7	146.4	147.7	149.1	149.8
50°	143.2	141.7	140.8	140.4	140.3	141.5	143.4	145.1	146.4	147.6	148.5
50.5°	141.8	140.3	139.4	139.1	139.0	140.3	142.0	143.9	145.1	146.4	147.1
51°	140.6	139.1	138.1	138.0	137.6	139.1	140.7	142.6	143.8	145.0	145.9
51.5°	139.3	137.8	136.8	136.7	136.2	137.7	139.7	141.3	142.7	143.7	144.6
52°	137.9	136.4	135.5	135.6	134.8	136.4	138.2	139.8	141.3	142.3	143.3
52.5°	136.6	135.0	134.2	134.0	133.2	135.0	136.9	138.4	140.0	141.1	141.9
53°	135.1	133.7	133.0	132.6	131.8	133.5	135.6	136.9	138.6	139.7	140.7
53.5°	133.9	132.3	131.4	131.0	130.4	132.2	134.3	135.7	137.3	138.4	139.5
54°	132.5	131.0	130.2	129.6	129.1	130.8	133.0	134.3	135.9	137.0	138.2
54.5°	131.3	129.6	128.9	128.2	127.7	129.3	131.5	133.0	134.5	135.8	136.9
55°	129.9	128.3	127.6	126.9	126.4	128.0	130.1	131.8	133.2	134.4	135.6
55.5°	128.5	126.9	126.4	125.6	125.0	126.8	128.7	130.4	131.9	133.1	134.2
56°	127.3	125.5	124.9	124.3	123.7	125.2	127.3	129.3	130.7	131.7	132.6
56.5°	125.8	124.3	123.7	123.2	122.5	123.9	125.9	128.0	129.4	130.3	131.2
57°	124.4	123.0	122.3	121.9	121.2	122.8	124.6	126.7	128.3	129.0	129.9
57.5°	123.2	121.7	120.9	120.6	119.8	121.5	123.2	125.3	126.9	127.7	128.5
58°	121.8	120.4	119.4	119.3	118.5	120.3	121.9	123.9	125.7	126.5	127.2
58.5°	120.6	119.1	118.0	118.1	117.1	119.0	120.6	122.7	124.2	125.1	125.9
59°	119.2	117.8	116.7	116.8	115.7	117.6	119.3	121.4	122.8	123.7	124.5
59.5°	117.8	116.3	115.3	115.3	114.4	116.3	117.9	119.9	121.6	122.5	123.1
60°	116.5	115.0	114.0	113.9	113.1	114.8	116.6	118.5	120.1	121.1	121.8
60.5°	115.2	113.7	112.8	112.4	111.9	113.5	115.4	117.2	118.8	119.7	120.6
61°	114.0	112.3	111.6	110.9	110.5	112.1	114.0	115.9	117.5	118.5	119.3
61.5°	112.5	111.0	110.4	109.6	109.2	110.8	112.7	114.5	116.2	117.1	118.0
62°	111.2	109.6	109.1	108.2	108.0	109.3	111.5	113.2	114.8	115.9	116.6
62.5°	109.9	108.4	107.8	106.9	106.6	108.1	110.2	111.9	113.5	114.6	115.3
63°	108.5	107.0	106.4	105.6	105.4	106.7	108.8	110.7	112.2	113.2	113.9
63.5°	107.2	105.8	105.0	104.2	103.9	105.5	107.5	109.3	110.9	112.0	112.5
64°	105.9	104.4	103.5	102.9	102.7	104.0	106.2	108.0	109.6	110.6	111.1
64.5°	104.6	103.3	102.2	101.7	101.5	102.7	105.0	106.8	108.2	109.3	110.0
65°	103.4	102.1	100.8	100.3	100.1	101.6	103.8	105.6	106.9	108.0	108.7
65.5°	102.2	100.7	99.5	99.0	98.8	100.3	102.5	104.1	105.7	106.6	107.3
66°	100.8	99.5	98.2	97.7	97.5	98.9	101.3	102.7	104.3	105.3	106.0
66.5°	99.5	98.1	96.9	96.5	96.3	97.6	99.8	101.4	103.0	103.9	104.5
67°	98.2	97.0	95.6	95.2	95.1	96.4	98.6	100.2	101.8	102.7	103.3





TEST NUMBER: P601020  
 CATALOG NUMBER: FM89S1EWHR\_5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	96.9	95.5	94.4	93.9	93.8	95.1	97.4	98.9	100.5	101.4	102.0
68°	95.6	94.2	93.2	92.6	92.4	94.0	96.1	97.7	99.2	100.1	100.6
68.5°	94.3	92.8	92.1	91.4	91.1	92.7	94.6	96.4	97.8	98.8	99.4
69°	93.0	91.4	90.9	90.1	89.8	91.4	93.4	95.2	96.6	97.5	98.1
69.5°	91.8	90.2	89.8	89.1	88.7	90.1	92.0	93.9	95.4	96.3	96.7
70°	90.6	89.1	88.6	88.0	87.4	89.1	90.8	92.6	94.2	95.1	95.4
70.5°	89.6	87.9	87.3	86.8	86.0	87.9	89.6	91.3	93.1	93.7	94.2
71°	88.3	86.7	86.1	85.6	84.9	86.7	88.6	90.1	91.6	92.6	93.1
71.5°	87.2	85.5	84.8	84.4	83.6	85.5	87.4	89.0	90.3	91.2	91.7
72°	85.9	84.4	83.5	83.1	82.4	84.3	86.2	87.8	89.2	90.1	90.5
72.5°	84.7	83.3	82.3	81.9	81.2	83.0	85.0	86.6	88.0	89.0	89.3
73°	83.5	82.1	81.1	80.6	80.0	81.8	83.8	85.3	86.7	87.7	88.2
73.5°	82.4	80.9	79.9	79.3	78.8	80.6	82.7	84.1	85.6	86.5	86.9
74°	81.2	79.8	78.7	78.2	77.7	79.3	81.3	82.9	84.6	85.2	85.6
74.5°	80.0	78.7	77.6	77.0	76.4	78.1	80.0	81.7	83.1	84.0	84.5
75°	78.9	77.5	76.6	76.0	75.3	76.8	78.8	80.6	81.9	82.8	83.2
75.5°	77.7	76.3	75.5	74.8	74.3	75.8	77.7	79.5	80.7	81.5	82.0
76°	76.7	75.2	74.3	73.6	73.1	74.6	76.6	78.3	79.6	80.4	80.8
76.5°	75.4	74.0	73.2	72.6	72.2	73.4	75.5	77.3	78.5	79.2	79.6
77°	74.2	72.8	72.0	71.4	70.8	72.3	74.4	76.1	77.3	78.0	78.5
77.5°	73.1	71.7	70.8	70.2	69.7	71.2	73.2	75.0	76.4	76.8	77.4
78°	72.0	70.5	69.8	69.3	68.6	70.0	72.2	73.9	75.2	75.9	76.4
78.5°	70.9	69.4	68.6	68.3	67.5	68.9	71.0	72.7	74.0	74.6	75.2
79°	69.9	68.4	67.6	67.2	66.4	68.0	69.7	71.6	72.8	73.5	74.1
79.5°	68.8	67.3	66.4	66.2	65.3	66.8	68.6	70.5	71.8	72.3	73.0
80°	67.7	66.2	65.4	65.2	64.3	65.8	67.9	69.3	70.6	71.2	72.1
80.5°	66.7	65.2	64.4	64.2	63.2	64.7	66.6	68.4	69.5	70.1	70.7
81°	65.7	64.3	63.3	63.1	62.2	63.7	65.5	67.3	68.4	69.0	69.5
81.5°	64.5	63.3	62.3	62.0	61.2	62.7	64.7	66.2	67.4	67.9	68.3
82°	63.5	62.3	61.3	61.0	60.3	61.7	63.6	65.1	66.2	66.9	67.1
82.5°	62.5	61.3	60.3	60.1	59.4	60.7	62.6	64.1	65.2	65.9	66.0
83°	61.4	60.2	59.3	59.0	58.3	59.8	61.5	63.0	64.2	64.8	65.0
83.5°	60.4	59.3	58.4	58.0	57.3	58.7	60.5	62.0	63.1	63.7	63.9
84°	59.5	58.3	57.4	56.9	56.3	57.8	59.5	61.0	62.1	62.7	62.9
84.5°	58.5	57.3	56.5	56.0	55.5	56.8	58.5	60.0	61.1	61.7	61.9
85°	57.6	56.5	55.7	55.1	54.6	56.0	57.5	59.1	60.2	60.7	61.0
85.5°	56.7	55.7	54.9	54.2	53.8	55.3	56.6	58.1	59.5	59.8	60.0
86°	56.0	54.7	53.8	53.3	53.0	54.1	55.7	57.2	58.3	59.0	59.3
86.5°	55.0	53.7	52.9	52.5	52.1	53.2	54.9	56.2	57.3	58.0	58.2
87°	54.1	52.9	52.1	51.7	51.0	52.4	54.1	55.3	56.3	56.9	57.3
87.5°	53.2	52.1	51.3	50.9	50.2	51.4	53.1	54.5	55.5	56.1	56.3
88°	52.3	51.2	50.5	50.1	49.2	50.6	52.2	53.5	54.6	55.3	55.4
88.5°	51.5	50.4	49.6	49.3	48.4	49.8	51.3	52.7	53.8	54.1	54.5
89°	50.7	49.6	48.7	48.4	47.6	48.9	50.4	51.9	52.9	53.2	53.5
89.5°	49.8	48.7	47.9	47.5	46.7	48.0	49.6	50.9	52.0	52.4	52.6



TEST NUMBER: P601020  
 CATALOG NUMBER: FM89S1EWHR\_5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	49.0	47.9	47.2	46.7	45.9	47.2	48.9	50.1	51.0	51.5	51.8
90.5°	48.2	47.2	46.4	45.9	45.1	46.4	48.0	49.3	50.2	50.7	51.0
91°	47.5	46.3	45.6	45.2	44.4	45.7	47.2	48.4	49.3	49.8	50.0
91.5°	46.6	45.6	44.8	44.4	43.7	44.9	46.4	47.7	48.5	49.0	49.1
92°	45.9	44.8	44.1	43.7	42.9	44.2	45.7	46.8	47.8	48.1	48.2
92.5°	45.2	44.1	43.4	43.1	42.3	43.6	44.9	46.1	46.9	47.3	47.4
93°	44.4	43.4	42.6	42.3	41.5	42.8	44.1	45.6	46.1	46.7	46.7
93.5°	43.6	42.7	42.0	41.5	40.8	42.2	43.5	44.7	45.4	45.9	45.9
94°	43.1	42.0	41.3	40.9	40.1	41.3	42.7	44.0	44.6	45.1	45.1
94.5°	42.4	41.4	40.6	40.2	39.4	40.6	42.0	43.4	43.9	44.5	44.6
95°	41.6	40.7	40.0	39.6	38.8	39.9	41.4	42.5	43.2	43.7	43.7
95.5°	40.9	40.1	39.3	39.0	38.4	39.4	40.6	41.9	42.6	42.9	42.9
96°	40.3	39.3	38.6	38.3	37.5	38.7	40.1	41.2	41.7	42.4	42.5
96.5°	39.7	38.7	38.0	37.7	36.9	38.3	39.5	40.5	41.1	41.5	41.6
97°	39.0	38.1	37.4	37.1	36.3	37.3	38.8	39.7	40.4	40.7	40.8
97.5°	38.4	37.5	36.9	36.6	35.7	36.8	38.6	39.1	39.7	40.0	40.2
98°	37.7	36.9	36.3	36.0	35.2	36.3	37.6	38.4	39.1	39.4	39.5
98.5°	37.2	36.3	35.7	35.4	34.5	35.7	37.0	37.8	38.5	38.8	38.8
99°	36.5	35.8	35.1	34.8	34.2	35.2	36.3	37.3	37.8	38.5	38.4
99.5°	36.0	35.3	34.6	34.2	33.4	34.4	35.6	36.6	37.3	37.5	37.5
100°	35.4	34.8	34.0	33.7	33.0	34.2	35.2	36.1	36.6	36.8	36.9
100.5°	34.9	34.2	33.5	33.1	32.4	33.4	34.5	35.5	36.2	36.3	36.3
101°	34.4	33.7	33.0	32.7	32.0	33.1	34.4	35.0	35.5	35.7	35.8
101.5°	33.9	33.2	32.5	32.1	31.3	32.3	33.5	34.4	34.9	35.2	35.3
102°	33.3	32.7	32.1	31.6	31.1	32.1	33.1	33.8	34.3	34.6	34.6
102.5°	32.8	32.1	31.7	31.2	30.4	31.3	32.4	33.3	34.2	34.1	34.4
103°	32.3	31.7	31.2	30.7	30.0	31.0	32.1	32.8	33.2	33.5	33.5
103.5°	31.8	31.2	30.7	30.3	29.5	30.4	31.4	32.2	32.8	33.1	33.1
104°	31.1	30.7	30.2	29.6	29.0	30.0	31.2	32.0	32.2	32.6	32.5
104.5°	30.8	30.1	29.6	29.4	28.7	29.4	30.4	31.3	31.8	32.1	32.1
105°	30.4	29.8	29.2	28.9	28.2	29.0	30.0	31.0	31.3	31.6	31.5
105.5°	30.0	29.4	28.8	28.5	27.9	28.7	29.6	30.4	30.9	31.1	31.0
106°	29.6	29.0	28.4	28.1	27.5	28.2	29.1	30.0	30.3	30.7	30.6
106.5°	29.2	28.6	28.0	27.7	27.1	27.8	28.9	29.6	29.9	30.1	30.1
107°	28.8	28.2	27.6	27.4	26.8	27.4	28.1	29.1	29.4	29.9	29.9
107.5°	28.4	27.8	27.3	27.0	26.3	27.0	27.9	28.8	28.9	29.2	29.3
108°	28.0	27.4	26.9	26.6	26.0	26.6	27.5	28.2	28.7	29.0	29.0
108.5°	27.6	27.0	26.6	26.4	25.9	26.2	27.1	27.8	28.2	28.5	28.5
109°	27.3	26.7	26.3	26.0	25.4	26.1	26.8	27.4	27.9	28.0	28.1
109.5°	26.9	26.3	25.9	25.6	24.9	26.1	26.4	27.0	27.4	27.8	27.9
110°	26.5	26.0	25.5	25.3	24.8	25.2	26.0	26.8	27.0	27.2	27.3
110.5°	26.3	25.6	25.3	25.0	24.3	24.8	25.9	26.3	26.8	26.8	26.9
111°	25.9	25.3	24.9	24.6	24.0	24.8	25.8	26.0	26.4	26.6	26.9
111.5°	25.6	25.0	24.6	24.4	23.7	24.2	25.0	25.8	25.9	26.2	26.2
112°	25.3	24.7	24.4	24.1	23.7	24.0	24.8	25.4	25.9	25.8	25.9



TEST NUMBER: P601020  
 CATALOG NUMBER: FM89S1EWHR\_5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	24.9	24.5	24.2	23.9	23.1	23.7	24.6	25.0	25.3	25.8	25.9
113°	24.7	24.3	23.9	23.7	22.8	23.6	24.0	24.8	24.8	25.1	25.3
113.5°	24.4	23.9	23.6	23.4	22.7	23.1	23.8	24.3	24.7	24.7	24.8
114°	24.2	23.7	23.4	23.2	22.6	22.9	23.7	23.7	24.2	24.7	24.6
114.5°	23.8	23.5	23.2	23.0	22.1	22.6	23.5	23.7	24.0	24.2	24.4
115°	23.6	23.2	23.0	22.8	21.9	22.5	23.0	23.8	23.6	23.9	24.0
115.5°	23.4	23.0	22.8	22.7	21.8	22.1	22.7	23.2	23.6	23.7	23.8
116°	23.2	22.8	22.7	22.5	21.7	21.9	22.7	22.9	23.2	23.5	23.8
116.5°	22.9	22.8	22.6	22.3	21.7	21.8	22.5	22.6	22.9	23.1	23.4
117°	22.8	22.6	22.4	22.2	21.3	21.8	22.1	22.6	22.7	22.9	23.1
117.5°	22.6	22.4	22.2	22.0	21.1	21.7	21.9	22.2	22.6	22.8	22.9
118°	22.5	22.3	22.0	21.8	21.0	21.5	21.8	22.0	22.4	22.8	22.6
118.5°	22.3	22.1	21.9	21.6	20.9	21.3	21.7	21.9	22.1	22.2	22.5
119°	22.1	22.0	21.8	21.4	20.7	21.1	21.5	21.9	21.9	22.0	22.3
119.5°	22.0	21.8	21.6	21.3	20.7	20.9	21.3	21.8	21.9	21.9	22.0
120°	21.7	21.7	21.5	21.2	20.7	20.9	21.1	21.5	21.7	21.8	21.9
120.5°	21.7	21.6	21.4	21.1	20.7	20.9	20.9	21.1	21.6	21.8	21.9
121°	21.5	21.4	21.3	21.0	20.7	20.9	20.7	21.1	21.2	21.6	21.7
121.5°	21.4	21.3	21.2	21.0	20.7	20.9	20.5	20.8	21.1	21.3	21.7
122°	21.2	21.2	21.1	21.0	20.7	20.8	20.5	20.7	20.9	21.2	21.4
122.5°	21.1	21.1	21.0	20.8	20.7	20.8	20.6	20.7	20.7	21.1	21.3
123°	21.0	21.0	20.9	20.8	20.7	20.8	20.6	20.6	20.6	21.0	21.1
123.5°	21.0	20.9	20.9	20.8	20.8	20.8	20.5	20.6	20.7	21.0	21.1
124°	20.9	20.8	20.7	20.8	20.8	20.8	20.5	20.5	20.6	21.0	21.1
124.5°	20.7	20.7	20.7	20.8	20.8	20.8	20.5	20.4	20.7	21.0	21.1
125°	20.7	20.7	20.7	20.8	20.9	20.8	20.5	20.4	20.7	21.0	21.1
125.5°	20.6	20.6	20.7	20.8	21.0	20.8	20.5	20.4	20.5	21.0	21.1
126°	20.6	20.6	20.5	20.8	21.2	20.8	20.5	20.4	20.5	21.0	21.1
126.5°	20.6	20.6	20.5	20.8	21.3	20.9	20.5	20.4	20.5	21.0	21.1
127°	20.5	20.6	20.5	20.8	21.6	20.9	20.5	20.4	20.5	21.0	21.1
127.5°	20.5	20.5	20.5	21.0	21.9	21.0	20.5	20.4	20.5	21.0	21.1
128°	20.5	20.5	20.5	21.0	22.0	21.1	20.6	20.4	20.5	21.0	21.1
128.5°	20.4	20.5	20.5	21.0	22.1	21.1	20.5	20.4	20.5	21.0	21.1
129°	20.5	20.6	20.5	21.0	22.0	21.2	20.7	20.4	20.5	21.0	21.1
129.5°	20.5	20.6	20.5	21.0	22.1	21.2	20.6	20.4	20.5	21.0	21.1
130°	20.4	20.5	20.5	21.0	22.0	21.3	20.7	20.4	20.5	21.0	21.1
130.5°	20.4	20.5	20.5	21.0	21.9	21.3	20.7	20.4	20.7	21.0	21.1
131°	20.4	20.5	20.5	21.0	21.8	21.2	20.7	20.5	20.7	21.0	21.1
131.5°	20.4	20.5	20.5	21.0	21.7	21.2	20.7	20.5	20.7	21.0	21.2
132°	20.4	20.5	20.5	21.0	21.7	21.3	20.9	20.5	20.9	21.1	21.3
132.5°	20.4	20.5	20.5	21.0	21.3	21.3	20.9	20.5	21.0	21.1	21.3
133°	20.4	20.5	20.5	21.0	21.3	21.3	20.9	20.6	21.0	21.2	21.3
133.5°	20.4	20.6	20.6	21.0	21.3	21.3	20.9	20.7	21.1	21.1	21.3
134°	20.5	20.6	20.6	21.0	21.3	21.4	20.9	20.7	21.1	21.2	21.3
134.5°	20.5	20.6	20.6	21.0	21.3	21.4	21.1	20.7	21.1	21.2	21.4



TEST NUMBER: P601020  
 CATALOG NUMBER: FM89S1EWHR\_5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	20.6	20.6	20.5	21.0	21.3	21.5	21.1	20.7	21.1	21.4	21.5
135.5°	20.7	20.7	20.7	21.0	21.3	21.5	21.3	20.8	21.1	21.3	21.6
136°	20.7	20.9	20.6	21.0	21.3	21.6	21.3	20.9	21.1	21.3	21.7
136.5°	20.7	21.1	20.7	21.0	21.4	21.7	21.3	20.9	21.1	21.4	21.8
137°	20.7	21.2	20.7	21.0	21.4	21.7	21.5	20.8	21.1	21.4	21.8
137.5°	20.7	21.5	20.8	21.0	21.4	21.7	21.5	20.9	21.1	21.4	21.9
138°	20.7	21.6	20.9	21.2	21.5	21.9	21.6	20.9	21.1	21.4	21.9
138.5°	20.9	21.6	20.9	21.2	21.5	22.0	21.7	20.9	21.1	21.6	21.8
139°	20.9	21.6	21.0	21.4	21.5	22.1	21.7	20.9	21.2	21.6	21.8
139.5°	21.1	21.6	21.1	21.5	21.5	22.1	21.8	20.9	21.2	21.6	21.8
140°	21.2	21.6	21.3	21.6	21.5	22.2	21.9	21.0	21.2	21.6	21.8
140.5°	21.2	21.6	21.5	21.6	21.6	22.2	21.9	21.1	21.4	21.6	21.8
141°	21.2	21.7	21.6	21.8	21.7	22.3	22.1	21.2	21.4	21.6	21.8
141.5°	21.3	21.8	21.7	21.8	21.7	22.4	22.1	21.2	21.5	21.6	21.8
142°	21.3	21.8	21.7	21.8	21.8	22.5	22.2	21.2	21.7	21.6	21.8
142.5°	21.6	21.8	21.9	21.8	21.8	22.5	22.3	21.3	21.7	21.6	21.8
143°	21.6	21.8	21.9	21.8	21.9	22.6	22.5	21.4	21.8	21.6	21.8
143.5°	21.7	21.8	21.9	22.0	22.1	22.7	22.5	21.4	21.8	21.6	21.8
144°	21.8	21.8	22.0	22.0	22.3	22.7	22.5	21.5	21.7	21.6	22.0
144.5°	21.7	21.8	22.1	22.1	22.5	22.8	22.6	21.7	21.8	21.6	22.0
145°	21.8	21.8	22.2	22.6	22.6	22.8	22.8	21.8	21.8	21.6	22.0
145.5°	21.9	21.9	22.4	22.8	22.8	22.8	22.7	21.9	21.8	21.6	22.0
146°	21.9	21.9	22.6	22.7	22.9	22.9	22.8	22.0	21.8	21.7	22.0
146.5°	21.9	21.9	22.7	22.7	22.9	23.0	22.9	22.0	21.9	21.7	22.1
147°	21.9	22.0	22.7	22.8	23.1	23.0	22.8	22.2	22.0	21.8	22.1
147.5°	22.1	22.1	22.7	22.9	23.1	23.0	22.8	22.4	22.1	21.9	22.1
148°	22.2	22.3	22.7	22.9	23.1	23.0	22.9	22.4	22.2	22.0	22.1
148.5°	22.6	22.4	22.8	23.0	23.1	23.0	23.0	22.5	22.2	22.0	22.1
149°	22.6	22.7	22.8	23.1	23.2	23.0	23.0	22.5	22.4	22.1	22.1
149.5°	22.6	22.7	22.8	23.2	23.3	23.0	23.2	22.6	22.4	22.2	22.1
150°	22.6	22.7	22.9	23.6	23.3	23.0	23.4	22.6	22.6	22.3	22.1
150.5°	22.6	22.7	22.9	23.8	23.3	23.0	23.4	22.7	22.7	22.3	22.1
151°	22.8	22.7	23.0	23.8	23.3	23.0	23.6	22.8	22.8	22.4	22.1
151.5°	22.9	22.8	23.1	23.7	23.4	23.0	23.7	22.8	22.8	22.6	22.1
152°	23.0	22.9	23.2	23.8	23.4	23.0	23.8	22.8	22.8	22.6	22.1
152.5°	23.0	23.0	23.2	23.8	23.4	23.0	23.7	22.8	22.9	22.7	22.1
153°	23.2	23.2	23.4	23.8	23.4	23.0	23.8	22.8	23.0	22.8	22.1
153.5°	23.3	23.4	23.7	23.9	23.5	23.2	23.8	22.9	23.1	22.8	22.1
154°	23.6	23.7	23.8	23.9	23.6	23.2	23.6	22.9	23.2	22.8	22.1
154.5°	23.7	23.7	23.8	24.1	23.6	23.2	23.6	22.9	23.4	23.0	22.2
155°	23.7	23.6	23.8	24.2	23.7	23.4	23.5	23.1	23.4	23.2	22.2
155.5°	23.7	23.6	23.8	24.2	23.9	23.4	23.3	23.2	23.5	23.3	22.2
156°	23.7	23.6	23.8	24.4	23.8	23.4	23.2	23.2	23.7	23.3	22.3
156.5°	23.9	23.7	23.8	24.7	23.8	23.4	23.1	23.4	23.8	23.3	22.4
157°	23.9	23.8	23.8	24.8	23.8	23.4	23.0	23.4	24.0	23.4	22.4



TEST NUMBER: P601020  
 CATALOG NUMBER: FM89S1EWHR\_5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	23.9	23.9	23.8	24.9	23.8	23.4	22.9	23.6	24.0	23.5	22.4
158°	23.9	23.9	23.8	24.8	23.8	23.4	22.9	23.8	23.9	23.7	22.5
158.5°	23.9	24.0	23.8	24.8	23.8	23.4	22.9	23.8	23.8	23.7	22.6
159°	23.9	23.9	23.8	24.8	23.8	23.4	22.9	23.8	23.7	23.7	22.7
159.5°	23.9	23.9	23.8	24.9	23.8	23.4	22.9	23.8	23.7	23.7	22.8
160°	23.9	23.9	23.8	24.8	23.9	23.5	22.8	23.7	23.7	23.8	22.8
160.5°	23.9	24.0	23.9	24.9	23.8	23.5	22.8	23.8	23.7	23.8	22.8
161°	23.9	24.0	23.8	24.8	23.8	23.3	22.9	23.6	23.7	23.7	22.8
161.5°	24.0	23.9	23.8	24.3	23.4	23.2	22.7	23.7	23.6	23.5	22.8
162°	23.9	23.7	23.4	23.9	23.0	23.0	22.6	23.6	23.2	23.0	22.7
162.5°	23.9	23.4	23.2	23.5	22.7	22.7	22.3	23.2	22.9	22.5	22.6
163°	23.4	23.0	22.8	23.1	22.4	22.5	21.9	22.7	22.6	22.2	22.5
163.5°	23.1	22.8	22.6	22.7	21.9	21.9	21.8	22.3	22.6	21.9	21.9
164°	22.8	22.4	22.2	22.5	21.7	21.8	21.6	21.9	21.9	21.7	21.7
164.5°	22.5	22.0	21.9	22.1	21.5	21.5	21.1	21.7	21.8	21.6	21.2
165°	22.2	21.6	21.5	21.8	21.1	21.1	20.7	21.2	21.4	21.3	20.8
165.5°	21.7	21.2	21.2	21.5	20.7	20.8	20.6	20.9	20.9	21.1	20.6
166°	21.3	21.0	20.9	21.2	20.5	20.5	20.0	20.5	20.5	20.9	20.3
166.5°	21.0	20.7	20.7	20.8	20.0	20.1	19.6	20.3	20.1	20.7	19.8
167°	20.6	20.4	20.3	20.4	19.7	19.7	19.3	19.8	19.8	20.6	19.6
167.5°	20.3	20.1	19.9	20.0	19.4	19.4	18.8	19.5	19.5	19.9	19.6
168°	20.0	19.7	19.6	19.6	19.0	19.0	18.5	19.3	19.4	19.5	19.3
168.5°	19.7	19.3	19.3	19.2	18.7	18.6	18.4	18.7	18.9	19.0	19.0
169°	19.4	19.0	18.9	18.9	18.4	18.4	17.9	18.4	18.6	18.7	18.6
169.5°	19.1	18.6	18.5	18.4	18.0	18.1	17.6	18.0	18.4	18.5	18.4
170°	18.6	18.3	18.2	18.0	17.6	17.7	17.6	17.6	18.1	17.8	17.9
170.5°	18.2	18.1	17.8	17.6	17.5	17.5	17.5	17.3	17.6	17.6	17.5
171°	17.9	17.7	17.6	17.3	16.8	17.3	16.6	16.7	17.4	17.6	17.4
171.5°	17.5	17.3	17.2	17.0	16.3	16.4	16.3	16.3	16.8	16.7	16.7
172°	17.2	17.0	16.9	16.5	15.8	15.9	16.1	16.1	16.3	16.3	16.3
172.5°	16.9	16.6	16.4	16.1	15.3	15.4	15.7	15.7	15.9	16.1	15.9
173°	16.4	16.2	15.9	15.6	14.5	14.8	15.4	15.3	15.5	15.6	15.5
173.5°	15.9	15.7	15.5	15.1	14.2	14.1	14.9	15.1	15.2	15.3	15.3
174°	15.5	15.2	14.9	14.5	13.2	13.4	14.3	14.6	14.5	14.7	14.7
174.5°	14.9	14.7	14.3	14.0	12.8	13.0	13.6	14.2	14.2	14.3	14.2
175°	14.5	14.3	13.8	13.2	12.2	12.3	13.0	13.6	13.6	13.9	13.6
175.5°	13.9	13.8	13.2	12.5	11.6	11.9	12.1	13.0	13.0	13.1	13.1
176°	13.3	13.0	12.5	11.9	11.1	11.2	11.3	12.2	12.4	12.5	12.5
176.5°	12.8	12.4	11.8	11.3	10.5	10.6	10.7	11.3	12.1	12.1	11.9
177°	12.1	11.8	11.3	10.8	10.1	10.1	10.1	10.5	11.1	11.3	11.0
177.5°	12.1	11.8	11.3	10.8	10.0	10.1	10.1	10.2	10.7	10.7	10.5
178°	12.8	12.8	12.4	12.1	10.5	10.2	10.3	10.3	10.7	10.7	10.5
178.5°	13.2	13.5	13.4	13.2	11.7	11.2	11.2	11.3	11.3	11.4	11.0
179°	13.4	13.7	14.0	14.0	13.0	12.6	12.7	12.7	12.7	12.5	12.1
179.5°	13.4	13.9	14.2	14.4	13.4	13.2	13.3	13.4	13.3	13.3	13.2



TEST NUMBER: P601020  
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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4



TEST NUMBER: P601020  
 CATALOG NUMBER: FM89S1EWHR\_5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	224.1	224.1	224.1	224.1	224.1	224.1
0.5°	223.9	224.1	224.1	224.2	224.1	224.1
1°	223.8	224.2	224.1	224.1	224.1	224.1
1.5°	223.7	224.2	224.1	224.1	224.1	224.1
2°	223.7	224.2	224.1	224.1	224.1	224.1
2.5°	223.7	224.2	224.1	224.1	224.1	224.1
3°	223.7	224.2	224.1	224.2	224.1	224.0
3.5°	223.7	224.2	224.1	224.2	223.9	223.8
4°	223.6	224.3	224.1	224.1	223.7	223.5
4.5°	223.4	224.2	224.1	223.9	223.5	223.4
5°	223.1	224.1	224.1	223.8	223.3	223.2
5.5°	223.0	224.0	224.1	223.7	223.2	223.1
6°	222.7	223.9	224.0	223.6	223.1	222.8
6.5°	222.6	223.7	224.0	223.5	222.9	222.6
7°	222.6	223.5	223.9	223.4	222.7	222.6
7.5°	222.5	223.3	223.7	223.2	222.4	222.5
8°	222.5	222.9	223.5	223.0	222.3	222.4
8.5°	222.5	222.8	223.0	222.7	222.0	222.0
9°	222.2	222.6	222.5	222.4	221.7	221.7
9.5°	221.9	222.3	222.1	221.7	221.4	221.3
10°	221.6	222.0	221.6	221.3	221.0	220.9
10.5°	221.4	221.7	221.3	220.8	220.6	220.5
11°	220.7	221.4	221.0	220.5	220.2	220.1
11.5°	220.3	221.1	220.6	220.2	219.7	219.4
12°	219.9	220.8	220.2	219.7	219.1	218.8
12.5°	219.5	220.3	219.8	219.3	218.7	218.2
13°	219.5	219.9	219.4	218.9	218.1	217.7
13.5°	219.4	219.4	219.0	218.3	217.6	217.2
14°	218.8	219.0	218.5	217.9	217.1	216.8
14.5°	218.5	218.5	218.1	217.5	216.5	216.3
15°	218.1	218.0	217.5	217.3	216.0	215.8
15.5°	217.5	217.5	217.0	216.9	215.5	215.4
16°	216.9	217.0	216.6	216.5	215.0	215.0
16.5°	216.1	216.5	216.0	216.0	214.4	214.5
17°	215.4	215.9	215.4	215.4	213.9	213.9
17.5°	214.6	215.5	215.0	214.8	213.2	213.3
18°	214.0	214.9	214.4	214.1	212.7	212.6
18.5°	213.3	214.5	213.9	213.4	212.0	211.8
19°	212.8	213.9	213.4	212.6	211.4	210.9
19.5°	212.1	213.1	212.9	211.7	210.6	209.9
20°	211.3	212.4	212.2	210.9	209.9	209.1
20.5°	211.0	211.8	211.5	210.1	209.1	208.3
21°	209.9	211.1	210.7	209.3	208.3	207.6
21.5°	209.2	210.3	209.9	208.6	207.6	206.7
22°	208.5	209.5	209.0	207.8	206.8	205.8



TEST NUMBER: P601020  
 CATALOG NUMBER: FM89S1EWHR\_5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	207.8	208.8	208.1	207.1	206.0	205.1
23°	206.9	208.0	207.2	206.3	205.2	204.3
23.5°	206.2	207.2	206.5	205.5	204.4	203.5
24°	205.5	206.5	205.7	204.7	203.5	202.7
24.5°	204.6	205.8	204.9	203.9	202.7	201.8
25°	203.8	204.9	204.1	203.0	202.0	201.0
25.5°	203.1	204.0	203.3	202.2	201.3	200.0
26°	202.4	203.3	202.3	201.2	200.5	199.1
26.5°	201.5	202.4	201.4	200.3	199.7	198.2
27°	200.8	201.5	200.7	199.4	198.9	197.2
27.5°	200.1	200.7	200.1	198.5	197.9	196.2
28°	199.2	199.8	199.2	197.5	196.9	195.2
28.5°	198.3	199.0	198.4	196.6	195.7	194.3
29°	197.3	198.1	197.5	195.7	194.5	193.3
29.5°	196.3	197.2	196.3	194.9	193.3	192.4
30°	195.2	196.3	195.1	193.7	192.2	191.5
30.5°	194.1	195.4	194.0	192.7	191.2	190.6
31°	193.1	194.4	192.9	191.7	190.2	189.4
31.5°	192.0	193.4	191.7	190.9	189.1	188.2
32°	191.0	192.3	190.9	189.9	188.1	187.1
32.5°	190.1	191.3	189.7	188.9	187.1	185.9
33°	189.1	190.2	188.7	187.9	186.1	184.9
33.5°	187.9	189.1	187.7	186.9	185.0	183.8
34°	186.8	188.0	186.6	185.8	183.9	182.6
34.5°	185.8	186.9	185.6	184.5	182.8	181.5
35°	184.7	185.7	184.6	183.2	181.7	180.4
35.5°	183.6	184.6	183.6	182.0	180.5	179.2
36°	182.5	183.4	182.5	180.8	179.3	178.1
36.5°	181.5	182.4	181.6	179.6	178.2	176.9
37°	180.4	181.3	180.5	178.6	177.0	175.8
37.5°	179.3	180.3	179.4	177.3	175.9	174.6
38°	178.1	179.2	178.3	176.2	174.8	173.5
38.5°	176.9	178.0	177.0	175.0	173.6	172.2
39°	175.7	176.7	175.6	174.0	172.5	171.0
39.5°	174.4	175.5	174.4	172.6	171.4	169.9
40°	173.2	174.2	173.2	171.5	170.3	168.8
40.5°	172.1	173.0	172.1	170.3	169.1	167.7
41°	171.0	171.8	170.8	169.0	167.8	166.4
41.5°	169.9	170.7	169.6	167.8	166.7	165.2
42°	168.8	169.7	168.2	166.5	165.3	163.8
42.5°	167.6	168.5	167.0	165.3	163.9	162.6
43°	166.3	167.4	165.9	164.0	162.5	161.4
43.5°	165.1	166.2	164.7	162.7	161.3	160.0
44°	163.7	165.0	163.5	161.7	160.0	158.7
44.5°	162.4	163.8	162.3	160.3	158.7	157.5





TEST NUMBER: P601020  
 CATALOG NUMBER: FM89S1EWHR\_5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	161.2	162.6	161.0	159.2	157.5	156.3
45.5°	159.9	161.3	159.6	157.9	156.3	155.0
46°	158.5	159.9	158.3	156.8	155.0	153.7
46.5°	157.3	158.5	157.2	155.4	153.7	152.4
47°	156.3	157.4	155.7	154.1	152.5	151.0
47.5°	155.1	156.0	154.4	152.8	151.1	149.7
48°	153.9	154.5	153.1	151.6	149.9	148.3
48.5°	152.7	153.2	151.9	150.4	148.7	147.0
49°	151.5	152.1	150.6	149.3	147.4	145.8
49.5°	150.2	150.8	149.2	148.0	146.0	144.5
50°	149.0	149.3	147.8	146.6	144.7	143.2
50.5°	147.6	148.0	146.5	145.2	143.3	141.8
51°	146.3	146.7	145.3	143.8	142.0	140.6
51.5°	144.9	145.4	144.1	142.3	140.7	139.3
52°	143.4	144.2	142.8	140.9	139.3	137.9
52.5°	142.0	142.8	141.5	139.5	138.2	136.6
53°	140.5	141.6	140.3	138.3	136.7	135.1
53.5°	139.3	140.4	138.9	137.0	135.4	133.9
54°	137.9	139.1	137.6	135.7	134.0	132.5
54.5°	136.5	137.7	136.3	134.4	132.7	131.3
55°	135.2	136.5	135.0	133.1	131.3	129.9
55.5°	133.8	135.0	133.6	132.0	129.9	128.5
56°	132.4	133.5	132.1	130.7	128.6	127.3
56.5°	131.2	132.1	130.8	129.5	127.3	125.8
57°	129.8	130.7	129.4	128.2	126.0	124.4
57.5°	128.5	129.1	127.8	126.8	124.7	123.2
58°	127.1	127.8	126.4	125.4	123.5	121.8
58.5°	125.7	126.4	125.1	124.0	122.2	120.6
59°	124.4	125.2	123.8	122.6	120.8	119.2
59.5°	123.1	123.9	122.5	121.2	119.4	117.8
60°	121.9	122.6	121.3	119.9	118.1	116.5
60.5°	120.5	121.5	120.0	118.5	116.8	115.2
61°	119.1	120.3	118.7	117.2	115.5	114.0
61.5°	117.8	119.2	117.5	115.9	114.3	112.5
62°	116.4	117.7	116.1	114.5	113.0	111.2
62.5°	115.1	116.3	114.7	113.2	111.7	109.9
63°	113.9	114.9	113.4	111.9	110.5	108.5
63.5°	112.5	113.4	112.0	110.6	109.3	107.2
64°	111.1	112.1	110.8	109.3	107.9	105.9
64.5°	109.9	110.8	109.4	108.0	106.5	104.6
65°	108.6	109.3	108.0	106.7	105.1	103.4
65.5°	107.0	107.9	106.6	105.5	103.8	102.2
66°	105.8	106.6	105.3	104.3	102.6	100.8
66.5°	104.4	105.1	104.0	103.0	101.3	99.5
67°	103.1	103.8	102.7	101.6	99.8	98.2



TEST NUMBER: P601020  
 CATALOG NUMBER: FM89S1EWHR\_5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	101.8	102.6	101.5	100.3	98.6	96.9
68°	100.5	101.3	100.3	99.0	97.2	95.6
68.5°	99.2	100.0	99.0	97.7	95.9	94.3
69°	97.9	98.6	97.8	96.3	94.6	93.0
69.5°	96.5	97.4	96.5	95.0	93.3	91.8
70°	95.3	96.1	95.2	93.7	92.0	90.6
70.5°	94.1	94.8	93.9	92.3	90.9	89.6
71°	93.0	93.6	92.6	91.1	89.8	88.3
71.5°	91.5	92.2	91.2	90.1	88.5	87.2
72°	90.2	91.0	90.0	88.9	87.3	85.9
72.5°	89.1	89.9	88.8	87.7	86.1	84.7
73°	87.9	88.6	87.6	86.5	84.9	83.5
73.5°	86.6	87.4	86.3	85.3	83.7	82.4
74°	85.4	86.1	85.2	84.1	82.6	81.2
74.5°	84.3	84.9	83.9	82.9	81.4	80.0
75°	83.1	83.7	82.7	81.6	80.2	78.9
75.5°	81.9	82.5	81.5	80.5	79.1	77.7
76°	80.7	81.3	80.3	79.3	78.0	76.7
76.5°	79.4	80.1	79.1	78.2	76.8	75.4
77°	78.3	78.9	77.9	77.0	75.7	74.2
77.5°	77.1	77.7	77.0	75.8	74.6	73.1
78°	76.2	76.6	75.6	74.7	73.4	72.0
78.5°	74.9	75.4	74.5	73.6	72.3	70.9
79°	73.7	74.3	73.4	72.7	71.1	69.9
79.5°	72.6	73.1	72.3	71.5	70.0	68.8
80°	71.7	71.9	71.1	70.4	69.0	67.7
80.5°	70.4	70.9	70.1	69.2	67.8	66.7
81°	69.3	69.9	69.0	68.2	66.8	65.7
81.5°	68.1	68.8	68.1	67.2	65.8	64.5
82°	66.9	67.8	67.0	66.0	64.7	63.5
82.5°	65.8	66.6	65.9	65.0	63.8	62.5
83°	64.7	65.5	65.0	64.0	62.8	61.4
83.5°	63.6	64.5	63.9	63.0	61.8	60.4
84°	62.7	63.5	63.0	62.0	60.8	59.5
84.5°	61.6	62.4	61.9	61.0	59.9	58.5
85°	60.6	61.4	60.8	60.1	58.9	57.6
85.5°	59.6	60.3	60.0	59.2	58.0	56.7
86°	58.6	59.3	58.9	58.2	57.0	56.0
86.5°	57.7	58.4	57.9	57.4	56.2	55.0
87°	56.7	57.5	57.0	56.4	55.3	54.1
87.5°	55.9	56.6	56.2	55.7	54.4	53.2
88°	55.1	55.8	55.2	54.8	53.5	52.3
88.5°	54.1	54.9	54.3	53.9	52.7	51.5
89°	53.1	54.0	53.4	53.0	51.8	50.7
89.5°	52.2	53.1	52.5	52.0	51.1	49.8



TEST NUMBER: P601020  
 CATALOG NUMBER: FM89S1EWHR\_5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	51.3	52.3	51.7	51.2	50.2	49.0
90.5°	50.4	51.5	50.8	50.3	49.4	48.2
91°	49.6	50.7	50.0	49.5	48.6	47.5
91.5°	48.8	49.7	49.1	48.7	47.7	46.6
92°	47.9	48.9	48.4	47.9	47.0	45.9
92.5°	47.1	48.1	47.5	47.1	46.2	45.2
93°	46.4	47.2	46.7	46.3	45.5	44.4
93.5°	45.7	46.6	45.9	45.5	44.7	43.6
94°	44.8	45.8	45.3	44.8	44.0	43.1
94.5°	44.1	45.0	44.6	44.1	43.3	42.4
95°	43.5	44.3	43.8	43.4	42.6	41.6
95.5°	42.7	43.5	43.3	42.7	41.9	40.9
96°	42.0	42.8	42.5	42.0	41.3	40.3
96.5°	41.5	42.1	41.8	41.4	40.7	39.7
97°	40.6	41.4	41.1	40.7	40.1	39.0
97.5°	39.9	40.7	40.5	40.1	39.4	38.4
98°	39.4	40.2	39.8	39.4	38.8	37.7
98.5°	38.5	39.5	39.1	39.0	38.2	37.2
99°	38.2	39.1	38.5	38.3	37.6	36.5
99.5°	37.3	38.3	37.9	37.7	37.0	36.0
100°	36.7	37.7	37.3	37.0	36.4	35.4
100.5°	36.2	37.1	36.6	36.4	35.8	34.9
101°	35.5	36.5	36.1	35.9	35.2	34.4
101.5°	34.9	35.9	35.5	35.3	34.7	33.9
102°	34.3	35.2	35.0	34.8	34.2	33.3
102.5°	34.0	34.8	34.5	34.2	33.6	32.8
103°	33.3	34.2	33.9	33.8	33.2	32.3
103.5°	32.9	33.7	33.2	33.3	32.7	31.8
104°	32.3	33.2	32.7	32.4	31.9	31.1
104.5°	31.9	32.7	32.5	32.2	31.7	30.8
105°	31.2	32.2	32.1	31.9	31.2	30.4
105.5°	31.0	31.7	31.6	31.4	30.8	30.0
106°	30.4	30.9	31.1	30.9	30.3	29.6
106.5°	29.9	30.8	30.7	30.5	29.9	29.2
107°	29.5	30.4	30.2	30.0	29.5	28.8
107.5°	29.1	30.0	29.8	29.6	29.1	28.4
108°	28.8	29.6	29.5	29.2	28.6	28.0
108.5°	28.3	29.2	29.0	28.8	28.3	27.6
109°	27.9	28.8	28.6	28.4	27.9	27.3
109.5°	27.6	28.4	28.2	28.0	27.6	26.9
110°	27.2	28.0	27.8	27.7	27.2	26.5
110.5°	26.8	27.7	27.5	27.3	26.8	26.3
111°	26.7	27.3	27.1	26.9	26.5	25.9
111.5°	26.0	27.0	26.7	26.6	26.2	25.6
112°	25.8	26.7	26.5	26.3	25.9	25.3



TEST NUMBER: P601020  
 CATALOG NUMBER: FM89S1EWHR\_5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	25.8	26.4	26.2	26.0	25.5	24.9
113°	25.2	26.0	25.9	25.7	25.3	24.7
113.5°	24.9	25.8	25.5	25.4	25.1	24.4
114°	24.7	25.5	25.3	25.2	24.8	24.2
114.5°	24.3	25.2	25.0	24.9	24.4	23.8
115°	23.9	24.9	24.7	24.6	24.2	23.6
115.5°	23.7	24.6	24.4	24.4	23.9	23.4
116°	23.5	24.4	24.2	24.1	23.7	23.2
116.5°	23.2	24.1	24.0	23.9	23.4	22.9
117°	22.9	23.9	23.8	23.6	23.2	22.8
117.5°	22.7	23.6	23.6	23.4	23.0	22.6
118°	22.6	23.5	23.4	23.3	22.8	22.5
118.5°	22.4	23.3	23.2	23.0	22.8	22.3
119°	22.1	23.1	23.0	22.8	22.6	22.1
119.5°	21.9	22.9	22.8	22.8	22.4	22.0
120°	21.9	22.9	22.8	22.7	22.2	21.7
120.5°	21.8	22.8	22.7	22.5	22.2	21.7
121°	21.8	22.7	22.5	22.3	22.0	21.5
121.5°	21.6	22.5	22.4	22.3	21.8	21.4
122°	21.4	22.4	22.3	22.1	21.7	21.2
122.5°	21.2	22.2	22.3	21.9	21.5	21.1
123°	21.2	22.2	22.1	21.9	21.5	21.0
123.5°	21.2	22.1	22.0	21.8	21.4	21.0
124°	21.2	21.9	21.9	21.6	21.3	20.9
124.5°	21.2	21.9	21.9	21.6	21.3	20.7
125°	21.2	21.7	21.7	21.5	21.1	20.7
125.5°	21.2	21.7	21.7	21.4	21.2	20.6
126°	21.2	21.7	21.7	21.4	21.0	20.6
126.5°	21.2	21.7	21.7	21.3	20.9	20.6
127°	21.2	21.7	21.7	21.3	20.9	20.5
127.5°	21.2	21.6	21.7	21.2	20.9	20.5
128°	21.2	21.6	21.7	21.2	20.9	20.5
128.5°	21.2	21.6	21.7	21.3	20.9	20.4
129°	21.2	21.6	21.7	21.2	20.9	20.5
129.5°	21.2	21.6	21.7	21.2	20.9	20.5
130°	21.3	21.6	21.7	21.2	20.9	20.4
130.5°	21.3	21.6	21.7	21.2	20.9	20.4
131°	21.2	21.7	21.7	21.2	20.9	20.4
131.5°	21.2	21.7	21.7	21.2	20.9	20.4
132°	21.3	21.7	21.7	21.2	20.9	20.4
132.5°	21.3	21.7	21.7	21.2	20.9	20.4
133°	21.3	21.7	21.7	21.2	21.1	20.4
133.5°	21.3	21.8	21.7	21.2	21.3	20.4
134°	21.4	21.8	21.7	21.2	21.5	20.5
134.5°	21.3	21.9	21.7	21.2	21.7	20.5



TEST NUMBER: P601020  
 CATALOG NUMBER: FM89S1EWHR\_5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
135°	21.3	21.9	21.7	21.2	21.8	20.6
135.5°	21.4	21.8	21.7	21.2	21.9	20.7
136°	21.5	21.8	21.7	21.2	21.9	20.7
136.5°	21.5	21.8	21.7	21.2	21.9	20.7
137°	21.6	21.9	21.7	21.3	21.9	20.7
137.5°	21.7	21.9	21.7	21.5	21.9	20.7
138°	21.8	21.9	21.8	21.7	21.9	20.7
138.5°	21.8	21.9	21.8	21.7	21.9	20.9
139°	21.9	21.9	21.8	21.8	21.9	20.9
139.5°	22.0	22.1	21.8	21.8	21.9	21.1
140°	22.0	22.1	21.9	21.8	21.9	21.2
140.5°	22.1	22.4	21.9	21.9	21.9	21.2
141°	22.2	22.7	21.9	21.9	21.9	21.2
141.5°	22.2	22.9	21.9	21.9	21.9	21.3
142°	22.2	22.8	21.9	21.9	21.9	21.3
142.5°	22.2	22.8	21.9	21.9	21.9	21.6
143°	22.2	22.8	22.0	22.1	21.9	21.6
143.5°	22.2	22.8	22.2	22.1	21.9	21.7
144°	22.2	22.8	22.3	22.4	21.9	21.8
144.5°	22.2	22.8	22.5	22.6	22.0	21.7
145°	22.2	22.8	22.6	22.8	22.0	21.8
145.5°	22.2	22.8	22.6	22.8	22.1	21.9
146°	22.3	22.8	22.7	22.8	22.4	21.9
146.5°	22.3	22.8	22.7	22.8	22.6	21.9
147°	22.4	22.8	22.7	22.8	22.7	21.9
147.5°	22.4	22.8	22.8	22.9	22.8	22.1
148°	22.5	22.8	22.8	23.0	22.8	22.2
148.5°	22.5	22.8	22.8	23.1	22.8	22.6
149°	22.5	22.9	22.9	23.4	22.8	22.6
149.5°	22.6	22.9	23.0	23.5	22.8	22.6
150°	22.6	22.9	23.0	23.7	22.9	22.6
150.5°	22.7	23.1	23.0	23.7	22.9	22.6
151°	22.7	23.4	23.0	23.7	22.9	22.8
151.5°	22.7	23.6	23.0	23.7	23.0	22.9
152°	22.7	23.8	23.0	23.8	23.0	23.0
152.5°	22.7	23.8	23.0	23.8	23.1	23.0
153°	22.7	23.8	23.1	23.8	23.1	23.2
153.5°	22.7	23.8	23.3	23.8	23.2	23.3
154°	22.6	23.8	23.6	23.8	23.6	23.6
154.5°	22.6	23.9	23.7	23.8	23.8	23.7
155°	22.6	24.0	23.9	23.8	23.8	23.7
155.5°	22.6	24.0	24.0	23.8	23.8	23.7
156°	22.4	24.2	24.3	23.8	23.8	23.7
156.5°	22.4	24.4	24.6	23.9	23.9	23.9
157°	22.2	24.7	24.9	23.9	23.8	23.9



TEST NUMBER: P601020  
 CATALOG NUMBER: FM89S1EWHR\_5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	22.0	24.8	24.9	23.9	24.0	23.9
158°	22.0	24.8	24.8	23.9	24.0	23.9
158.5°	21.8	24.8	24.8	23.9	23.9	23.9
159°	21.8	24.8	24.9	24.0	23.9	23.9
159.5°	21.8	24.8	25.0	24.1	23.9	23.9
160°	21.8	24.8	25.0	24.2	23.9	23.9
160.5°	21.8	24.8	25.2	24.5	23.9	23.9
161°	21.8	24.9	25.1	24.5	23.9	23.9
161.5°	21.8	24.9	25.1	24.4	23.9	24.0
162°	21.8	24.8	25.2	24.4	23.9	23.9
162.5°	21.6	24.5	24.9	24.4	23.9	23.9
163°	21.6	24.2	24.4	23.9	23.6	23.4
163.5°	21.2	23.9	24.1	23.6	23.3	23.1
164°	20.9	23.6	23.6	23.2	22.9	22.8
164.5°	20.5	23.3	23.2	22.8	22.7	22.5
165°	20.2	22.8	22.8	22.6	22.2	22.2
165.5°	19.8	22.5	22.6	22.3	22.0	21.7
166°	19.5	22.1	22.1	21.8	21.6	21.3
166.5°	19.3	21.6	21.7	21.5	21.2	21.0
167°	18.8	21.2	21.3	21.0	20.9	20.6
167.5°	18.5	20.8	20.9	20.7	20.5	20.3
168°	18.3	20.5	20.5	20.3	20.1	20.0
168.5°	18.0	20.2	20.1	20.0	19.8	19.7
169°	17.7	19.7	19.7	19.6	19.5	19.4
169.5°	17.4	19.4	19.3	19.3	19.2	19.1
170°	17.4	19.0	18.9	19.0	18.8	18.6
170.5°	16.7	18.5	18.6	18.6	18.5	18.2
171°	16.3	18.1	18.2	18.3	18.2	17.9
171.5°	16.1	17.5	17.8	17.9	17.9	17.5
172°	15.5	17.0	17.4	17.6	17.5	17.2
172.5°	15.2	16.4	17.0	17.2	17.0	16.9
173°	14.9	15.9	16.3	16.7	16.7	16.4
173.5°	14.3	15.3	15.7	16.2	16.2	15.9
174°	14.1	14.8	15.1	15.6	15.7	15.5
174.5°	13.5	14.3	14.5	14.9	15.1	14.9
175°	13.1	13.8	13.9	14.3	14.6	14.5
175.5°	12.5	13.3	13.4	13.6	14.0	13.9
176°	11.9	12.9	12.7	13.0	13.4	13.3
176.5°	11.3	12.3	12.1	12.4	12.8	12.8
177°	10.7	11.7	11.6	11.8	12.2	12.1
177.5°	10.2	11.5	11.5	11.5	12.1	12.1
178°	10.1	11.8	11.4	11.5	12.3	12.8
178.5°	10.6	12.9	12.2	12.3	12.9	13.2
179°	11.9	13.1	12.7	13.1	13.2	13.4
179.5°	13.3	13.2	13.2	13.4	13.3	13.4



TEST NUMBER: P601020  
CATALOG NUMBER: FM89S1EWHR\_5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
180°	13.4	13.4	13.4	13.4	13.4	13.4

(END OF REPORT)