

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: P601031

Luminaire Tested: FM89S1EWHR_3000K

Issue Date: 3/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P601031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2117574A001)
Test Lab: INNOVATION CENTER
Issue Date: 3/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: FM89S1EWHR_3000K
Description: FM89S1EWHR at 3000K
Light Source: -
Ballast/Driver: -

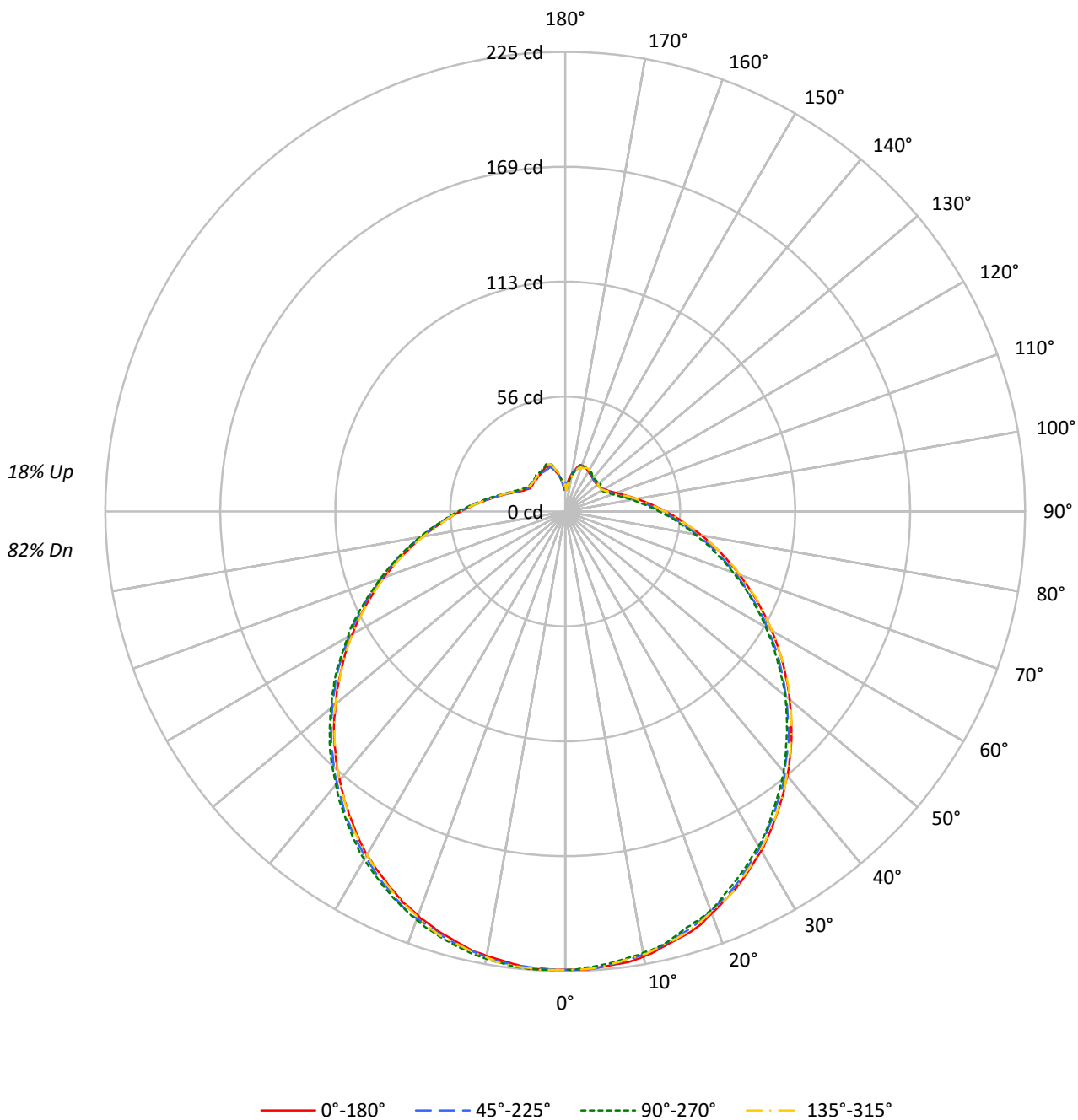
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 953.0 lumens
Efficiency: N/A
Efficacy: 96.3 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

TEST NUMBER: P601031
CATALOG NUMBER: FM89S1EWHR_3000K

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°	5467	5467	5467	5467
5°	5213	5190	5223	5232
10°	4981	4940	4976	5005
15°	4739	4693	4746	4790
20°	4512	4477	4531	4583
25°	4291	4235	4329	4376
30°	4077	4022	4128	4179
35°	3860	3798	3914	3974
40°	3659	3598	3715	3775
45°	3458	3386	3527	3595
50°	3259	3196	3334	3400
55°	3072	2987	3148	3226
60°	2886	2802	2975	3037
65°	2711	2627	2805	2868
70°	2547	2455	2646	2702
75°	2406	2296	2501	2552
80°	2277	2163	2375	2422
85°	2179	2065	2277	2322

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°
 Vertical Angle: 45°
 Luminance: 3595 cd/sqm



TEST NUMBER: P601031
 CATALOG NUMBER: FM89S1EWHR_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	2.2
10°-20°	61.1	6.4
20°-30°	93.2	9.8
30°-40°	113.9	12.0
40°-50°	121.9	12.8
50°-60°	117.9	12.4
60°-70°	104.2	10.9
70°-80°	84.8	8.9
80°-90°	64.2	6.7
90°-100°	46.2	4.8
100°-110°	32.7	3.4
110°-120°	23.7	2.5
120°-130°	19.0	2.0
130°-140°	16.5	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°	175.5	18.4
0°-40°	289.5	30.4
0°-60°	529.3	55.5
0°-90°	782.5	82.1
90°-120°	102.6	10.8
90°-150°	152.0	16.0
90°-180°	171.0	17.9
0°-180°	953.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	224	224	224	224	224	
5°	224	223	224	224	224	21
15°	216	214	216	218	216	61
25°	201	199	203	205	201	93
35°	181	178	183	186	181	113
45°	157	153	160	163	157	121
55°	130	127	133	137	130	116
65°	104	100	107	110	104	103
75°	79	75	82	84	79	84
85°	58	55	60	62	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	24	24	24	11
165°	22	21	21	23	22	6
175°	14	12	14	14	14	2
180°	13	13	13	13	13	



TEST NUMBER: P601031
 CATALOG NUMBER: FM89S1EWHR_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	224.4	224.4	224.4	224.4	224.4	224.4	224.4	224.4	224.4	224.4	224.4
0.5°	224.4	224.4	224.5	224.4	224.4	224.4	224.4	224.4	224.4	224.4	224.4
1°	224.4	224.4	224.5	224.4	224.4	224.4	224.4	224.4	224.4	224.4	224.3
1.5°	224.4	224.5	224.4	224.4	224.2	224.4	224.4	224.4	224.4	224.4	224.4
2°	224.5	224.5	224.4	224.4	223.8	223.9	224.4	224.4	224.4	224.4	224.2
2.5°	224.4	224.4	224.4	224.4	223.6	223.7	224.3	224.4	224.4	224.4	224.1
3°	224.4	224.2	224.3	223.9	223.4	223.5	224.2	224.4	224.4	224.3	224.0
3.5°	224.2	223.8	224.1	223.6	223.2	223.3	224.1	224.2	224.4	224.2	224.0
4°	223.9	223.6	224.0	223.4	223.0	223.1	223.8	223.8	224.4	224.0	223.7
4.5°	223.8	223.4	223.7	223.2	222.8	223.0	223.5	223.5	224.3	223.7	223.8
5°	223.6	223.2	223.4	223.0	222.6	222.6	223.3	223.1	224.0	223.4	223.6
5.5°	223.4	223.0	223.1	222.9	222.3	222.4	223.0	222.9	223.6	223.2	223.6
6°	223.2	222.8	222.8	222.8	222.1	222.1	222.6	222.6	223.2	223.1	223.5
6.5°	223.0	222.6	222.5	222.7	221.6	222.1	222.3	222.3	223.0	222.9	223.3
7°	223.0	222.3	222.2	222.6	221.4	221.7	222.1	222.1	222.6	222.5	223.1
7.5°	222.9	222.0	221.9	222.3	221.0	221.3	221.5	221.9	222.3	222.4	223.1
8°	222.8	221.6	221.6	221.9	220.7	221.0	221.3	221.5	222.0	222.1	223.0
8.5°	222.4	221.3	221.3	221.3	220.3	220.5	221.1	221.3	221.8	222.1	222.6
9°	222.1	220.9	220.9	220.7	220.2	220.2	220.7	221.1	221.4	221.9	222.3
9.5°	221.7	220.5	220.6	220.1	220.1	220.3	220.4	221.0	221.1	221.5	222.1
10°	221.2	220.3	220.1	219.4	219.4	219.5	220.2	220.5	221.0	221.1	221.6
10.5°	220.8	219.8	219.7	219.0	219.0	219.0	220.1	220.3	220.5	220.8	221.2
11°	220.5	219.4	219.4	218.8	218.9	218.8	219.3	220.0	220.2	220.3	220.9
11.5°	219.8	218.9	218.9	218.6	218.4	218.3	218.9	219.4	220.1	220.0	220.3
12°	219.2	218.3	218.4	218.4	218.0	217.9	218.3	218.8	219.7	220.0	220.0
12.5°	218.6	217.8	217.9	218.2	217.6	217.4	217.9	218.3	219.1	219.0	220.0
13°	218.1	217.2	217.3	217.8	217.0	216.9	217.5	217.8	218.5	218.6	219.3
13.5°	217.6	216.7	216.7	217.3	216.4	216.3	217.0	217.3	217.9	218.3	218.9
14°	217.1	216.2	216.2	216.7	215.6	215.8	216.7	216.9	217.5	217.9	218.4
14.5°	216.7	215.8	215.6	215.9	214.8	215.3	216.1	216.6	216.9	217.5	218.0
15°	216.1	215.3	215.1	215.3	214.0	214.8	215.6	215.9	216.4	217.0	217.6
15.5°	215.7	214.8	214.5	214.6	213.3	214.5	215.1	215.6	215.9	216.5	217.1
16°	215.3	214.2	213.9	213.9	212.5	213.8	214.7	215.2	215.5	215.9	216.5
16.5°	214.8	213.6	213.4	213.2	212.0	213.3	214.0	214.7	215.0	215.4	215.9
17°	214.3	213.0	212.8	212.4	211.7	212.6	213.2	214.1	214.5	214.9	215.3
17.5°	213.6	212.2	212.1	211.7	210.8	211.9	212.7	213.6	213.7	214.4	214.7
18°	213.0	211.5	211.3	210.9	210.5	211.6	211.8	213.0	213.1	213.7	214.0
18.5°	212.2	210.8	210.6	210.2	209.8	210.5	211.1	212.4	212.5	213.2	213.6
19°	211.2	210.0	209.7	209.7	209.3	209.8	210.3	211.5	211.8	212.5	213.0
19.5°	210.3	209.3	209.0	209.2	208.6	209.2	209.5	210.6	211.6	211.7	212.5
20°	209.5	208.6	208.2	208.4	207.9	208.5	208.8	209.8	210.4	211.4	212.1
20.5°	208.7	207.9	207.4	207.8	207.3	207.7	208.2	208.9	209.7	210.3	211.7
21°	207.9	207.2	206.7	206.9	206.2	207.3	207.5	208.3	209.1	209.6	211.4
21.5°	207.1	206.5	205.8	206.1	205.3	206.2	206.8	207.4	208.3	209.0	210.4
22°	206.1	205.7	205.0	205.2	204.3	205.2	206.2	206.6	207.7	208.2	209.7



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 CATALOG NUMBER: FM89S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	205.4	204.7	204.3	204.2	203.2	204.1	205.4	206.0	207.3	207.5	208.8
23°	204.7	203.8	203.7	203.1	202.3	203.1	204.7	205.1	206.2	207.1	207.9
23.5°	203.8	202.9	202.8	202.2	201.4	202.2	204.0	204.2	205.4	206.1	207.1
24°	203.1	202.0	202.0	201.2	200.5	201.3	203.2	203.5	204.4	205.3	206.0
24.5°	202.2	201.1	201.2	200.4	199.6	200.5	202.1	202.9	203.7	204.7	205.1
25°	201.3	200.2	200.2	199.3	198.7	199.8	201.1	202.0	203.1	204.0	204.2
25.5°	200.4	199.2	199.2	198.3	197.7	198.7	200.0	201.2	201.9	203.0	203.4
26°	199.4	198.3	198.1	197.3	196.8	197.8	198.9	200.3	201.0	202.1	202.8
26.5°	198.5	197.3	197.0	196.4	195.8	196.7	197.9	199.7	200.2	201.1	201.8
27°	197.5	196.4	196.0	195.4	195.0	195.7	196.9	198.7	199.3	200.1	200.9
27.5°	196.5	195.5	195.0	194.5	193.9	194.8	196.0	197.8	198.5	199.2	200.0
28°	195.6	194.5	193.9	193.6	193.0	193.8	195.1	196.8	197.7	198.4	199.1
28.5°	194.6	193.5	192.8	192.6	192.0	192.8	194.2	195.6	196.7	197.6	198.1
29°	193.6	192.6	191.9	191.9	191.0	191.8	193.3	194.5	195.8	196.5	197.2
29.5°	192.7	191.6	191.2	190.7	190.0	190.9	192.2	193.5	195.0	195.5	196.2
30°	191.8	190.8	190.1	189.6	189.2	190.1	191.2	192.3	194.2	194.6	195.3
30.5°	190.9	189.5	189.0	188.6	188.2	189.0	190.4	191.3	193.0	193.5	194.5
31°	189.7	188.4	187.9	187.5	187.3	188.0	189.2	190.5	192.0	192.4	193.4
31.5°	188.5	187.3	186.9	186.3	186.2	187.0	188.1	189.3	190.9	191.3	192.4
32°	187.4	186.1	185.7	185.2	185.1	186.1	187.0	188.3	189.9	190.5	191.4
32.5°	186.3	185.1	184.6	184.0	184.0	184.9	186.0	187.2	188.8	189.5	190.5
33°	185.2	184.1	183.4	182.8	182.8	183.9	184.8	186.1	187.7	188.6	189.4
33.5°	184.1	182.9	182.3	181.7	181.5	182.8	183.8	185.0	186.5	187.6	188.3
34°	182.9	181.9	181.2	180.6	180.1	181.8	182.8	184.0	185.3	186.9	187.3
34.5°	181.8	180.8	179.9	179.5	179.0	180.7	181.6	182.9	184.2	185.9	186.2
35°	180.7	179.7	178.8	178.3	177.8	179.5	180.4	181.9	183.2	184.7	185.2
35.5°	179.5	178.7	177.6	177.3	176.6	178.3	179.2	180.7	182.2	183.6	184.2
36°	178.4	177.6	176.5	176.3	175.5	177.1	178.2	179.7	180.9	182.5	183.1
36.5°	177.2	176.4	175.4	175.2	174.3	175.7	177.2	178.7	179.8	181.3	181.9
37°	176.1	175.4	174.3	174.1	173.2	174.3	176.1	177.5	178.7	180.2	180.6
37.5°	174.9	174.2	173.3	173.0	172.0	173.1	175.0	176.4	177.7	179.0	179.4
38°	173.8	173.0	172.2	171.8	170.9	171.9	173.8	175.1	176.4	177.9	178.2
38.5°	172.5	171.7	171.0	170.5	169.8	170.7	172.6	173.8	175.2	176.7	177.2
39°	171.3	170.2	169.9	169.3	168.7	169.5	171.3	172.5	174.0	175.5	176.0
39.5°	170.1	168.9	168.5	167.8	167.5	168.3	170.0	171.4	172.8	174.4	174.8
40°	169.1	167.7	167.1	166.5	166.3	167.1	168.7	170.2	171.7	173.2	173.7
40.5°	167.9	166.3	165.7	165.0	165.0	165.9	167.4	169.1	170.5	171.9	172.6
41°	166.7	165.1	164.2	163.7	163.8	164.7	166.2	168.0	169.4	170.6	171.5
41.5°	165.5	163.7	163.0	162.5	162.5	163.5	165.0	166.8	168.3	169.3	170.3
42°	164.1	162.5	161.8	161.3	161.1	162.2	163.9	165.7	167.0	168.1	169.1
42.5°	162.8	161.3	160.7	160.1	159.8	160.9	162.7	164.6	165.8	166.8	167.7
43°	161.6	159.8	159.5	158.8	158.3	159.6	161.5	163.4	164.6	165.5	166.5
43.5°	160.3	158.6	158.3	157.6	157.1	158.3	160.1	162.2	163.2	164.2	165.2
44°	159.0	157.5	157.3	156.3	155.8	157.1	158.8	160.9	162.0	162.9	164.0
44.5°	157.8	156.3	156.0	155.0	154.6	155.9	157.5	159.6	161.0	161.7	162.9



TEST NUMBER: P601031
 CATALOG NUMBER: FM89S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	156.6	155.0	154.7	153.7	153.3	154.6	156.3	158.2	159.7	160.6	161.7
45.5°	155.2	153.8	153.4	152.3	152.2	153.4	155.0	156.9	158.5	159.2	160.5
46°	153.9	152.5	152.1	151.0	150.7	152.2	153.8	155.6	157.2	157.9	159.1
46.5°	152.6	151.1	150.5	149.7	149.5	150.8	152.6	154.4	156.0	156.7	157.8
47°	151.2	149.9	149.1	148.3	148.2	149.5	151.2	153.0	154.7	155.5	156.7
47.5°	149.9	148.5	147.7	147.0	146.9	148.3	150.0	151.7	153.3	154.3	155.3
48°	148.6	147.2	146.3	145.8	145.6	147.0	148.8	150.3	152.1	153.0	153.9
48.5°	147.3	145.8	145.0	144.5	144.3	145.7	147.5	149.1	150.6	152.0	152.6
49°	146.0	144.6	143.7	143.2	143.1	144.3	146.2	147.8	149.2	150.6	151.3
49.5°	144.7	143.2	142.4	141.8	141.9	143.1	145.0	146.6	148.0	149.3	150.0
50°	143.4	141.9	141.0	140.6	140.6	141.8	143.6	145.4	146.7	147.8	148.8
50.5°	142.1	140.6	139.6	139.4	139.2	140.5	142.2	144.1	145.3	146.6	147.4
51°	140.9	139.3	138.3	138.2	137.8	139.3	140.9	142.9	144.1	145.2	146.1
51.5°	139.5	138.0	137.0	136.9	136.4	137.9	139.9	141.5	142.9	143.9	144.8
52°	138.1	136.7	135.8	135.8	135.0	136.6	138.5	140.0	141.5	142.6	143.5
52.5°	136.8	135.3	134.4	134.2	133.4	135.3	137.1	138.6	140.2	141.3	142.1
53°	135.3	134.0	133.2	132.8	132.0	133.7	135.9	137.2	138.8	139.9	140.9
53.5°	134.1	132.5	131.7	131.3	130.6	132.4	134.5	135.9	137.5	138.6	139.8
54°	132.7	131.2	130.4	129.8	129.3	131.1	133.2	134.5	136.1	137.3	138.4
54.5°	131.5	129.9	129.1	128.4	127.9	129.6	131.7	133.2	134.7	136.0	137.1
55°	130.2	128.5	127.9	127.1	126.6	128.2	130.3	132.0	133.4	134.6	135.8
55.5°	128.7	127.1	126.6	125.8	125.2	127.0	128.9	130.6	132.2	133.3	134.4
56°	127.6	125.8	125.1	124.5	123.9	125.5	127.5	129.5	130.9	131.9	132.9
56.5°	126.0	124.5	123.9	123.4	122.7	124.1	126.1	128.2	129.6	130.5	131.5
57°	124.6	123.2	122.5	122.1	121.4	123.0	124.8	126.9	128.5	129.2	130.1
57.5°	123.4	121.9	121.1	120.8	120.0	121.7	123.4	125.5	127.1	127.9	128.8
58°	122.0	120.6	119.6	119.5	118.7	120.5	122.1	124.1	125.9	126.7	127.4
58.5°	120.8	119.3	118.2	118.3	117.3	119.2	120.8	122.9	124.4	125.3	126.1
59°	119.4	118.0	116.9	117.0	115.9	117.8	119.5	121.6	123.1	123.9	124.7
59.5°	118.0	116.5	115.5	115.5	114.6	116.5	118.1	120.1	121.8	122.7	123.3
60°	116.7	115.2	114.2	114.0	113.3	115.0	116.8	118.7	120.3	121.3	122.0
60.5°	115.4	113.9	113.0	112.6	112.1	113.7	115.6	117.4	119.0	119.9	120.8
61°	114.2	112.5	111.8	111.1	110.7	112.3	114.2	116.1	117.7	118.7	119.5
61.5°	112.7	111.1	110.6	109.8	109.4	111.0	112.9	114.7	116.4	117.3	118.2
62°	111.4	109.8	109.3	108.4	108.1	109.5	111.7	113.4	115.0	116.1	116.8
62.5°	110.1	108.5	108.0	107.1	106.7	108.3	110.4	112.1	113.7	114.8	115.4
63°	108.7	107.2	106.6	105.7	105.5	106.9	109.0	110.9	112.4	113.4	114.1
63.5°	107.4	105.9	105.2	104.4	104.1	105.7	107.7	109.5	111.0	112.2	112.7
64°	106.1	104.6	103.7	103.1	102.8	104.2	106.3	108.2	109.8	110.8	111.3
64.5°	104.8	103.4	102.4	101.9	101.7	102.9	105.1	106.9	108.4	109.5	110.2
65°	103.5	102.2	100.9	100.5	100.3	101.7	103.9	105.7	107.1	108.2	108.8
65.5°	102.3	100.9	99.7	99.2	99.0	100.4	102.7	104.2	105.9	106.8	107.5
66°	100.9	99.6	98.3	97.9	97.7	99.1	101.4	102.9	104.5	105.5	106.1
66.5°	99.7	98.3	97.1	96.6	96.5	97.7	100.0	101.6	103.2	104.1	104.7
67°	98.4	97.1	95.8	95.3	95.2	96.5	98.7	100.4	102.0	102.8	103.5



TEST NUMBER: P601031
 CATALOG NUMBER: FM89S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	97.1	95.7	94.6	94.0	94.0	95.3	97.5	99.0	100.7	101.6	102.2
68°	95.7	94.4	93.4	92.8	92.6	94.2	96.2	97.8	99.3	100.3	100.8
68.5°	94.5	93.0	92.2	91.5	91.3	92.9	94.8	96.6	98.0	98.9	99.5
69°	93.2	91.6	91.0	90.3	90.0	91.5	93.5	95.3	96.8	97.7	98.2
69.5°	92.0	90.3	89.9	89.3	88.8	90.3	92.1	94.0	95.5	96.4	96.9
70°	90.8	89.3	88.7	88.1	87.5	89.3	91.0	92.8	94.3	95.2	95.6
70.5°	89.7	88.1	87.5	87.0	86.2	88.0	89.8	91.5	93.3	93.9	94.4
71°	88.5	86.8	86.2	85.7	85.0	86.8	88.8	90.2	91.7	92.7	93.2
71.5°	87.3	85.7	84.9	84.5	83.8	85.6	87.6	89.2	90.5	91.4	91.8
72°	86.0	84.5	83.6	83.3	82.5	84.4	86.3	88.0	89.3	90.3	90.7
72.5°	84.8	83.4	82.4	82.1	81.4	83.1	85.2	86.7	88.1	89.2	89.5
73°	83.6	82.3	81.2	80.7	80.1	82.0	83.9	85.4	86.9	87.9	88.4
73.5°	82.5	81.1	80.0	79.5	78.9	80.7	82.8	84.3	85.8	86.6	87.0
74°	81.4	79.9	78.9	78.3	77.8	79.4	81.5	83.0	84.7	85.4	85.8
74.5°	80.2	78.8	77.8	77.2	76.6	78.2	80.2	81.9	83.3	84.2	84.6
75°	79.0	77.6	76.7	76.1	75.4	77.0	78.9	80.7	82.1	82.9	83.3
75.5°	77.8	76.5	75.6	74.9	74.4	75.9	77.8	79.7	80.9	81.6	82.1
76°	76.8	75.3	74.4	73.7	73.2	74.7	76.7	78.5	79.7	80.5	80.9
76.5°	75.5	74.1	73.3	72.7	72.3	73.5	75.6	77.4	78.6	79.3	79.7
77°	74.4	73.0	72.1	71.6	70.9	72.4	74.5	76.2	77.5	78.2	78.6
77.5°	73.3	71.8	71.0	70.4	69.8	71.3	73.4	75.1	76.5	77.0	77.6
78°	72.1	70.6	69.9	69.4	68.7	70.2	72.3	74.0	75.3	76.0	76.5
78.5°	71.0	69.6	68.8	68.4	67.6	69.0	71.1	72.8	74.1	74.7	75.3
79°	70.0	68.6	67.7	67.3	66.5	68.1	69.8	71.7	73.0	73.6	74.2
79.5°	68.9	67.4	66.5	66.3	65.4	66.9	68.8	70.6	71.9	72.4	73.2
80°	67.8	66.3	65.5	65.3	64.4	65.9	68.0	69.4	70.7	71.3	72.2
80.5°	66.8	65.3	64.5	64.3	63.3	64.8	66.8	68.5	69.6	70.2	70.8
81°	65.8	64.4	63.4	63.2	62.3	63.8	65.7	67.4	68.5	69.1	69.6
81.5°	64.6	63.4	62.4	62.1	61.3	62.8	64.8	66.3	67.5	68.1	68.4
82°	63.6	62.4	61.4	61.1	60.4	61.8	63.8	65.2	66.3	67.0	67.2
82.5°	62.6	61.4	60.4	60.2	59.5	60.8	62.7	64.2	65.3	66.0	66.2
83°	61.5	60.3	59.4	59.1	58.4	59.9	61.6	63.1	64.3	64.9	65.1
83.5°	60.6	59.4	58.5	58.1	57.4	58.8	60.6	62.1	63.2	63.8	64.0
84°	59.6	58.4	57.5	57.0	56.4	57.9	59.6	61.1	62.2	62.8	63.0
84.5°	58.6	57.4	56.5	56.1	55.6	56.9	58.6	60.1	61.2	61.8	62.0
85°	57.7	56.6	55.8	55.2	54.7	56.1	57.6	59.2	60.3	60.8	61.1
85.5°	56.8	55.8	55.0	54.3	53.9	55.4	56.7	58.2	59.6	59.9	60.1
86°	56.1	54.8	53.9	53.4	53.1	54.2	55.8	57.3	58.4	59.1	59.4
86.5°	55.1	53.8	53.0	52.6	52.2	53.3	55.0	56.3	57.4	58.0	58.3
87°	54.1	52.9	52.2	51.8	51.1	52.5	54.2	55.4	56.4	57.0	57.4
87.5°	53.3	52.2	51.3	51.0	50.3	51.5	53.2	54.6	55.6	56.2	56.4
88°	52.4	51.3	50.6	50.2	49.3	50.6	52.3	53.6	54.7	55.4	55.5
88.5°	51.6	50.5	49.6	49.3	48.5	49.9	51.4	52.8	53.9	54.2	54.6
89°	50.8	49.7	48.8	48.5	47.7	49.0	50.5	52.0	53.0	53.3	53.6
89.5°	49.9	48.7	48.0	47.6	46.8	48.0	49.7	51.0	52.1	52.5	52.7



TEST NUMBER: P601031
 CATALOG NUMBER: FM89S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	49.1	48.0	47.3	46.8	46.0	47.2	49.0	50.2	51.1	51.5	51.9
90.5°	48.3	47.2	46.5	46.0	45.2	46.5	48.1	49.3	50.3	50.8	51.0
91°	47.6	46.4	45.7	45.3	44.5	45.8	47.2	48.5	49.4	49.9	50.1
91.5°	46.7	45.7	44.9	44.5	43.8	45.0	46.5	47.8	48.6	49.0	49.1
92°	46.0	44.9	44.2	43.7	43.0	44.3	45.8	46.9	47.9	48.2	48.3
92.5°	45.2	44.2	43.4	43.2	42.4	43.7	44.9	46.2	47.0	47.4	47.5
93°	44.5	43.4	42.7	42.3	41.6	42.9	44.1	45.6	46.2	46.8	46.8
93.5°	43.7	42.8	42.0	41.6	40.9	42.3	43.6	44.8	45.5	46.0	46.0
94°	43.2	42.1	41.3	41.0	40.2	41.4	42.8	44.1	44.7	45.2	45.2
94.5°	42.4	41.4	40.7	40.3	39.5	40.7	42.0	43.5	44.0	44.5	44.6
95°	41.7	40.8	40.1	39.7	38.8	40.0	41.5	42.6	43.2	43.7	43.8
95.5°	41.0	40.2	39.3	39.1	38.5	39.4	40.7	42.0	42.6	43.0	43.0
96°	40.3	39.4	38.7	38.3	37.5	38.7	40.1	41.3	41.8	42.4	42.5
96.5°	39.7	38.7	38.1	37.8	37.0	38.4	39.5	40.6	41.1	41.5	41.7
97°	39.1	38.1	37.5	37.1	36.4	37.4	38.9	39.8	40.5	40.8	40.8
97.5°	38.5	37.5	36.9	36.6	35.7	36.9	38.6	39.2	39.8	40.0	40.3
98°	37.8	37.0	36.3	36.0	35.3	36.3	37.6	38.5	39.2	39.5	39.6
98.5°	37.2	36.4	35.8	35.4	34.6	35.7	37.0	37.9	38.6	38.9	38.9
99°	36.6	35.9	35.2	34.9	34.3	35.3	36.4	37.4	37.9	38.5	38.5
99.5°	36.1	35.4	34.6	34.3	33.5	34.5	35.7	36.7	37.3	37.6	37.6
100°	35.5	34.8	34.1	33.8	33.1	34.3	35.2	36.1	36.7	36.9	37.0
100.5°	35.0	34.2	33.6	33.2	32.5	33.5	34.6	35.5	36.2	36.3	36.4
101°	34.4	33.8	33.0	32.7	32.0	33.1	34.4	35.0	35.5	35.8	35.8
101.5°	33.9	33.2	32.5	32.2	31.4	32.4	33.5	34.4	35.0	35.3	35.4
102°	33.4	32.7	32.1	31.7	31.1	32.1	33.1	33.9	34.4	34.7	34.6
102.5°	32.9	32.1	31.7	31.2	30.5	31.4	32.5	33.4	34.2	34.1	34.4
103°	32.4	31.7	31.2	30.8	30.0	31.0	32.1	32.8	33.3	33.6	33.5
103.5°	31.8	31.2	30.7	30.3	29.5	30.4	31.5	32.3	32.8	33.1	33.1
104°	31.1	30.8	30.2	29.6	29.1	30.0	31.2	32.0	32.3	32.6	32.5
104.5°	30.9	30.1	29.6	29.4	28.8	29.5	30.5	31.3	31.9	32.2	32.2
105°	30.5	29.8	29.3	29.0	28.3	29.0	30.1	31.1	31.3	31.7	31.5
105.5°	30.0	29.4	28.9	28.6	27.9	28.8	29.6	30.5	31.0	31.2	31.1
106°	29.6	29.0	28.5	28.2	27.5	28.2	29.2	30.1	30.4	30.8	30.6
106.5°	29.2	28.6	28.1	27.8	27.1	27.8	29.0	29.6	29.9	30.2	30.1
107°	28.8	28.3	27.7	27.4	26.8	27.4	28.2	29.1	29.5	30.0	29.9
107.5°	28.4	27.8	27.3	27.1	26.3	27.0	28.0	28.9	29.0	29.3	29.4
108°	28.0	27.4	26.9	26.7	26.1	26.7	27.6	28.2	28.7	29.0	29.0
108.5°	27.6	27.0	26.6	26.4	26.0	26.3	27.1	27.9	28.2	28.5	28.6
109°	27.3	26.7	26.3	26.1	25.4	26.1	26.8	27.4	27.9	28.0	28.2
109.5°	27.0	26.4	26.0	25.7	24.9	26.1	26.4	27.1	27.4	27.9	27.9
110°	26.6	26.0	25.6	25.4	24.8	25.3	26.1	26.8	27.0	27.3	27.4
110.5°	26.3	25.7	25.3	25.1	24.3	24.9	26.0	26.3	26.8	26.9	27.0
111°	25.9	25.4	24.9	24.7	24.0	24.8	25.8	26.0	26.4	26.6	26.9
111.5°	25.6	25.1	24.7	24.4	23.8	24.3	25.0	25.8	26.0	26.2	26.2
112°	25.3	24.8	24.5	24.2	23.7	24.0	24.8	25.4	25.9	25.9	25.9



TEST NUMBER: P601031
 CATALOG NUMBER: FM89S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	25.0	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	22.9	23.6	24.1	24.9	24.8	25.1	25.3
113.5°	24.5	24.0	23.7	23.4	22.7	23.2	23.8	24.4	24.7	24.8	24.9
114°	24.2	23.7	23.4	23.2	22.7	22.9	23.8	23.8	24.3	24.8	24.7
114.5°	23.9	23.5	23.3	23.0	22.2	22.6	23.6	23.7	24.0	24.3	24.5
115°	23.6	23.2	23.0	22.8	21.9	22.6	23.0	23.8	23.7	24.0	24.1
115.5°	23.4	23.0	22.9	22.7	21.8	22.1	22.8	23.2	23.7	23.7	23.9
116°	23.2	22.8	22.7	22.5	21.7	22.0	22.8	22.9	23.2	23.5	23.8
116.5°	22.9	22.8	22.6	22.4	21.7	21.8	22.6	22.7	22.9	23.2	23.5
117°	22.9	22.7	22.4	22.2	21.4	21.8	22.1	22.6	22.7	22.9	23.1
117.5°	22.7	22.5	22.2	22.0	21.2	21.7	22.0	22.2	22.7	22.8	23.0
118°	22.6	22.3	22.1	21.9	21.0	21.5	21.8	22.0	22.4	22.8	22.6
118.5°	22.4	22.1	21.9	21.7	20.9	21.3	21.7	21.9	22.1	22.3	22.6
119°	22.2	22.0	21.8	21.5	20.8	21.1	21.6	21.9	21.9	22.0	22.3
119.5°	22.0	21.9	21.6	21.3	20.7	21.0	21.3	21.8	21.9	21.9	22.0
120°	21.8	21.7	21.5	21.3	20.7	21.0	21.2	21.6	21.7	21.8	21.9
120.5°	21.7	21.6	21.4	21.1	20.7	21.0	20.9	21.2	21.6	21.8	21.9
121°	21.5	21.5	21.3	21.1	20.7	20.9	20.7	21.1	21.2	21.7	21.8
121.5°	21.4	21.3	21.2	21.1	20.7	20.9	20.6	20.8	21.1	21.3	21.7
122°	21.2	21.3	21.2	21.0	20.7	20.8	20.6	20.8	21.0	21.2	21.4
122.5°	21.2	21.1	21.0	20.9	20.7	20.8	20.6	20.7	20.8	21.1	21.3
123°	21.0	21.1	21.0	20.9	20.7	20.8	20.6	20.6	20.6	21.0	21.2
123.5°	21.0	20.9	20.9	20.9	20.8	20.8	20.6	20.6	20.7	21.0	21.2
124°	20.9	20.9	20.8	20.8	20.8	20.8	20.6	20.5	20.6	21.0	21.2
124.5°	20.8	20.7	20.7	20.8	20.8	20.8	20.6	20.4	20.7	21.0	21.1
125°	20.8	20.7	20.7	20.8	20.9	20.8	20.6	20.4	20.7	21.0	21.1
125.5°	20.6	20.7	20.7	20.8	21.0	20.8	20.6	20.4	20.6	21.0	21.1
126°	20.6	20.6	20.6	20.9	21.3	20.8	20.6	20.4	20.6	21.0	21.1
126.5°	20.6	20.6	20.6	20.9	21.4	21.0	20.6	20.4	20.6	21.0	21.1
127°	20.6	20.6	20.6	20.9	21.6	21.0	20.6	20.4	20.6	21.0	21.1
127.5°	20.6	20.6	20.6	21.0	21.9	21.0	20.6	20.4	20.6	21.0	21.1
128°	20.6	20.6	20.5	21.1	22.0	21.2	20.6	20.4	20.6	21.0	21.1
128.5°	20.4	20.6	20.5	21.0	22.1	21.2	20.6	20.4	20.6	21.1	21.1
129°	20.5	20.6	20.5	21.0	22.0	21.2	20.7	20.4	20.6	21.1	21.1
129.5°	20.5	20.6	20.5	21.0	22.1	21.2	20.6	20.4	20.6	21.1	21.2
130°	20.4	20.6	20.5	21.0	22.0	21.3	20.8	20.4	20.6	21.1	21.2
130.5°	20.4	20.6	20.5	21.0	21.9	21.3	20.8	20.4	20.7	21.1	21.2
131°	20.4	20.5	20.5	21.0	21.8	21.2	20.8	20.6	20.8	21.1	21.2
131.5°	20.4	20.5	20.5	21.0	21.8	21.2	20.8	20.6	20.8	21.1	21.2
132°	20.4	20.5	20.5	21.0	21.7	21.3	20.9	20.6	20.9	21.1	21.3
132.5°	20.4	20.6	20.5	21.0	21.4	21.3	20.9	20.6	21.0	21.1	21.3
133°	20.4	20.5	20.5	21.0	21.4	21.3	20.9	20.6	21.0	21.2	21.3
133.5°	20.4	20.6	20.6	21.0	21.4	21.3	20.9	20.8	21.1	21.1	21.4
134°	20.5	20.7	20.6	21.0	21.4	21.4	21.0	20.8	21.1	21.3	21.4
134.5°	20.5	20.6	20.6	21.0	21.4	21.4	21.1	20.8	21.1	21.3	21.4



TEST NUMBER: P601031
 CATALOG NUMBER: FM89S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P601031
 CATALOG NUMBER: FM89S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	23.9	24.0	23.9	24.9	23.9	23.5	23.0	23.7	24.0	23.6	22.5
158°	23.9	24.0	23.9	24.8	23.9	23.5	23.0	23.8	23.9	23.8	22.5
158.5°	23.9	24.0	23.9	24.8	23.9	23.5	22.9	23.8	23.8	23.8	22.7
159°	23.9	24.0	23.9	24.8	23.9	23.5	22.9	23.8	23.7	23.8	22.7
159.5°	23.9	24.0	23.9	24.9	23.9	23.5	22.9	23.9	23.7	23.8	22.8
160°	23.9	24.0	23.9	24.8	23.9	23.5	22.8	23.7	23.7	23.8	22.9
160.5°	23.9	24.0	23.9	24.9	23.9	23.5	22.8	23.8	23.7	23.8	22.8
161°	23.9	24.0	23.9	24.8	23.8	23.3	22.9	23.7	23.7	23.8	22.8
161.5°	24.0	23.9	23.9	24.3	23.5	23.3	22.8	23.7	23.7	23.5	22.8
162°	23.9	23.7	23.5	23.9	23.1	23.0	22.6	23.7	23.3	23.0	22.7
162.5°	23.9	23.4	23.2	23.6	22.8	22.8	22.4	23.2	22.9	22.6	22.7
163°	23.5	23.1	22.9	23.1	22.5	22.6	22.0	22.7	22.6	22.2	22.5
163.5°	23.1	22.8	22.6	22.8	22.0	22.0	21.8	22.4	22.6	21.9	22.0
164°	22.9	22.5	22.3	22.5	21.8	21.8	21.6	21.9	22.0	21.7	21.7
164.5°	22.5	22.1	21.9	22.2	21.6	21.5	21.1	21.7	21.8	21.6	21.2
165°	22.2	21.7	21.5	21.9	21.1	21.1	20.7	21.2	21.4	21.3	20.9
165.5°	21.8	21.3	21.2	21.5	20.7	20.8	20.6	20.9	20.9	21.1	20.6
166°	21.4	21.0	21.0	21.2	20.5	20.5	20.0	20.6	20.5	20.9	20.4
166.5°	21.0	20.7	20.7	20.8	20.1	20.2	19.6	20.3	20.2	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	19.7
167.5°	20.3	20.1	20.0	20.1	19.5	19.5	18.8	19.5	19.5	20.0	19.6
168°	20.1	19.7	19.6	19.6	19.1	19.0	18.5	19.3	19.4	19.5	19.3
168.5°	19.7	19.4	19.3	19.2	18.7	18.7	18.4	18.8	19.0	19.1	19.0
169°	19.5	19.0	18.9	18.9	18.4	18.5	17.9	18.4	18.7	18.7	18.6
169.5°	19.1	18.7	18.5	18.4	18.0	18.1	17.6	18.1	18.5	18.5	18.5
170°	18.6	18.3	18.3	18.0	17.6	17.7	17.7	17.6	18.1	17.8	17.9
170.5°	18.3	18.1	17.9	17.6	17.5	17.5	17.6	17.3	17.6	17.6	17.6
171°	17.9	17.8	17.6	17.3	16.8	17.3	16.7	16.7	17.4	17.7	17.4
171.5°	17.5	17.4	17.2	17.0	16.3	16.4	16.4	16.4	16.8	16.8	16.8
172°	17.2	17.0	16.9	16.5	15.8	15.9	16.2	16.1	16.4	16.3	16.4
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	15.7	14.6	14.8	15.4	15.3	15.5	15.6	15.5
173.5°	16.0	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	15.0	14.5	13.3	13.5	14.3	14.6	14.6	14.8	14.7
174.5°	15.0	14.7	14.4	14.0	12.8	13.0	13.7	14.2	14.2	14.4	14.2
175°	14.5	14.3	13.8	13.3	12.2	12.4	13.1	13.6	13.6	13.9	13.6
175.5°	13.9	13.8	13.2	12.6	11.6	12.0	12.1	13.0	13.0	13.2	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	11.4	10.5	10.6	10.8	11.4	12.1	12.1	11.9
177°	12.2	11.9	11.3	10.9	10.2	10.2	10.2	10.6	11.1	11.3	11.0
177.5°	12.1	11.9	11.3	10.8	10.0	10.1	10.2	10.2	10.7	10.7	10.5
178°	12.8	12.8	12.4	12.2	10.5	10.2	10.3	10.4	10.8	10.7	10.5
178.5°	13.3	13.5	13.5	13.3	11.7	11.2	11.2	11.3	11.4	11.4	11.0
179°	13.4	13.8	14.1	14.0	13.0	12.6	12.8	12.8	12.7	12.5	12.1
179.5°	13.4	13.9	14.3	14.4	13.4	13.2	13.3	13.4	13.3	13.3	13.2



TEST NUMBER: P601031
CATALOG NUMBER: FM89S1EWHR_3000K

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: P601031
 CATALOG NUMBER: FM89S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	224.4	224.4	224.4	224.4	224.4	224.4
0.5°	224.3	224.5	224.4	224.6	224.4	224.4
1°	224.2	224.6	224.4	224.5	224.4	224.4
1.5°	224.0	224.6	224.4	224.5	224.4	224.4
2°	224.0	224.6	224.4	224.5	224.4	224.5
2.5°	224.1	224.6	224.4	224.5	224.5	224.4
3°	224.1	224.6	224.4	224.6	224.4	224.4
3.5°	224.0	224.6	224.5	224.6	224.3	224.2
4°	224.0	224.6	224.5	224.4	224.0	223.9
4.5°	223.8	224.6	224.4	224.2	223.8	223.8
5°	223.5	224.4	224.4	224.2	223.7	223.6
5.5°	223.4	224.4	224.4	224.1	223.6	223.4
6°	223.1	224.3	224.4	224.0	223.4	223.2
6.5°	223.0	224.1	224.4	223.9	223.3	223.0
7°	222.9	223.9	224.2	223.8	223.1	223.0
7.5°	222.9	223.6	224.1	223.6	222.8	222.9
8°	222.9	223.3	223.8	223.4	222.7	222.8
8.5°	222.9	223.1	223.4	223.1	222.4	222.4
9°	222.6	222.9	222.9	222.8	222.1	222.1
9.5°	222.3	222.7	222.4	222.1	221.7	221.7
10°	221.9	222.3	222.0	221.7	221.4	221.2
10.5°	221.7	222.1	221.7	221.2	221.0	220.8
11°	221.0	221.8	221.3	220.9	220.6	220.5
11.5°	220.7	221.5	220.9	220.6	220.1	219.8
12°	220.2	221.1	220.6	220.1	219.5	219.2
12.5°	219.8	220.7	220.1	219.7	219.0	218.6
13°	219.8	220.2	219.8	219.3	218.5	218.1
13.5°	219.8	219.8	219.4	218.7	218.0	217.6
14°	219.1	219.4	218.9	218.3	217.5	217.1
14.5°	218.8	218.9	218.4	217.9	216.9	216.7
15°	218.5	218.4	217.8	217.6	216.4	216.1
15.5°	217.9	217.9	217.4	217.3	215.9	215.7
16°	217.2	217.4	216.9	216.8	215.4	215.3
16.5°	216.4	216.9	216.4	216.4	214.8	214.8
17°	215.8	216.3	215.8	215.7	214.3	214.3
17.5°	215.0	215.8	215.3	215.1	213.6	213.6
18°	214.4	215.3	214.7	214.5	213.0	213.0
18.5°	213.6	214.8	214.3	213.7	212.4	212.2
19°	213.2	214.2	213.7	212.9	211.7	211.2
19.5°	212.4	213.5	213.3	212.0	211.0	210.3
20°	211.7	212.8	212.6	211.2	210.2	209.5
20.5°	211.4	212.1	211.9	210.4	209.4	208.7
21°	210.3	211.4	211.1	209.6	208.7	207.9
21.5°	209.5	210.6	210.2	209.0	208.0	207.1
22°	208.9	209.9	209.4	208.1	207.2	206.1



TEST NUMBER: P601031
 CATALOG NUMBER: FM89S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	208.1	209.2	208.4	207.4	206.4	205.4
23°	207.3	208.4	207.5	206.6	205.5	204.7
23.5°	206.6	207.6	206.8	205.8	204.7	203.8
24°	205.8	206.9	206.0	205.1	203.9	203.1
24.5°	204.9	206.1	205.2	204.2	203.1	202.2
25°	204.1	205.3	204.4	203.3	202.3	201.3
25.5°	203.5	204.4	203.7	202.5	201.7	200.4
26°	202.8	203.7	202.7	201.5	200.9	199.4
26.5°	201.9	202.7	201.7	200.7	200.1	198.5
27°	201.1	201.9	201.1	199.7	199.3	197.5
27.5°	200.4	201.0	200.4	198.9	198.3	196.5
28°	199.5	200.2	199.6	197.9	197.2	195.6
28.5°	198.6	199.3	198.7	196.9	196.1	194.6
29°	197.7	198.4	197.8	196.0	194.9	193.6
29.5°	196.7	197.6	196.7	195.2	193.7	192.7
30°	195.5	196.6	195.5	194.1	192.5	191.8
30.5°	194.4	195.8	194.3	193.0	191.5	190.9
31°	193.4	194.8	193.2	192.0	190.5	189.7
31.5°	192.3	193.8	192.1	191.3	189.5	188.5
32°	191.3	192.6	191.2	190.2	188.4	187.4
32.5°	190.4	191.6	190.1	189.2	187.4	186.3
33°	189.4	190.5	189.0	188.3	186.4	185.2
33.5°	188.3	189.4	188.0	187.3	185.3	184.1
34°	187.1	188.3	186.9	186.1	184.2	182.9
34.5°	186.1	187.2	185.9	184.8	183.1	181.8
35°	185.0	186.0	184.9	183.5	182.0	180.7
35.5°	183.9	184.9	183.9	182.3	180.8	179.5
36°	182.8	183.7	182.8	181.1	179.6	178.4
36.5°	181.8	182.7	181.9	179.9	178.5	177.2
37°	180.7	181.6	180.8	178.9	177.3	176.1
37.5°	179.6	180.6	179.7	177.6	176.2	174.9
38°	178.4	179.5	178.6	176.5	175.1	173.8
38.5°	177.2	178.3	177.3	175.3	173.9	172.5
39°	176.0	177.0	175.9	174.3	172.8	171.3
39.5°	174.7	175.8	174.7	172.9	171.7	170.1
40°	173.5	174.5	173.5	171.8	170.5	169.1
40.5°	172.4	173.3	172.4	170.6	169.3	167.9
41°	171.3	172.1	171.1	169.3	168.1	166.7
41.5°	170.2	171.0	169.8	168.1	166.9	165.5
42°	169.1	170.0	168.5	166.8	165.6	164.1
42.5°	167.9	168.8	167.3	165.5	164.2	162.8
43°	166.6	167.7	166.1	164.3	162.8	161.6
43.5°	165.4	166.5	165.0	163.0	161.6	160.3
44°	164.0	165.3	163.8	162.0	160.3	159.0
44.5°	162.7	164.1	162.6	160.6	159.0	157.8



TEST NUMBER: P601031
 CATALOG NUMBER: FM89S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	161.5	162.8	161.3	159.5	157.8	156.6
45.5°	160.2	161.6	159.9	158.2	156.6	155.2
46°	158.8	160.1	158.6	157.0	155.3	153.9
46.5°	157.6	158.8	157.4	155.6	154.0	152.6
47°	156.6	157.6	156.0	154.3	152.7	151.2
47.5°	155.4	156.3	154.7	153.1	151.4	149.9
48°	154.1	154.8	153.4	151.9	150.2	148.6
48.5°	152.9	153.5	152.2	150.7	148.9	147.3
49°	151.8	152.3	150.8	149.6	147.6	146.0
49.5°	150.5	151.0	149.4	148.2	146.2	144.7
50°	149.2	149.6	148.1	146.8	144.9	143.4
50.5°	147.9	148.2	146.8	145.4	143.6	142.1
51°	146.6	146.9	145.5	144.0	142.2	140.9
51.5°	145.1	145.6	144.4	142.6	140.9	139.5
52°	143.7	144.4	143.0	141.2	139.5	138.1
52.5°	142.2	143.0	141.7	139.8	138.4	136.8
53°	140.8	141.8	140.5	138.5	136.9	135.3
53.5°	139.5	140.6	139.2	137.2	135.6	134.1
54°	138.1	139.3	137.8	135.9	134.3	132.7
54.5°	136.7	138.0	136.5	134.6	132.9	131.5
55°	135.4	136.7	135.2	133.3	131.5	130.2
55.5°	134.1	135.3	133.8	132.2	130.1	128.7
56°	132.7	133.8	132.4	130.9	128.8	127.6
56.5°	131.4	132.3	131.0	129.7	127.6	126.0
57°	130.0	130.9	129.6	128.4	126.2	124.6
57.5°	128.7	129.4	128.0	127.0	124.9	123.4
58°	127.4	128.0	126.7	125.6	123.7	122.0
58.5°	126.0	126.6	125.3	124.2	122.4	120.8
59°	124.6	125.4	124.0	122.8	121.0	119.4
59.5°	123.3	124.1	122.7	121.4	119.6	118.0
60°	122.1	122.8	121.5	120.1	118.3	116.7
60.5°	120.7	121.7	120.2	118.7	117.0	115.4
61°	119.3	120.5	118.9	117.4	115.7	114.2
61.5°	118.0	119.4	117.7	116.1	114.5	112.7
62°	116.6	117.9	116.3	114.7	113.2	111.4
62.5°	115.3	116.5	114.9	113.4	111.9	110.1
63°	114.1	115.1	113.6	112.1	110.7	108.7
63.5°	112.7	113.6	112.2	110.7	109.5	107.4
64°	111.3	112.3	111.0	109.5	108.1	106.1
64.5°	110.1	111.0	109.6	108.1	106.7	104.8
65°	108.7	109.5	108.2	106.9	105.3	103.5
65.5°	107.2	108.1	106.8	105.7	104.0	102.3
66°	105.9	106.8	105.5	104.5	102.7	100.9
66.5°	104.6	105.3	104.2	103.2	101.5	99.7
67°	103.3	104.0	102.9	101.8	100.0	98.4



TEST NUMBER: P601031
 CATALOG NUMBER: FM89S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	101.9	102.7	101.6	100.5	98.7	97.1
68°	100.7	101.4	100.4	99.1	97.4	95.7
68.5°	99.3	100.1	99.2	97.8	96.1	94.5
69°	98.1	98.8	97.9	96.5	94.8	93.2
69.5°	96.7	97.5	96.7	95.2	93.5	92.0
70°	95.5	96.3	95.4	93.8	92.1	90.8
70.5°	94.3	95.0	94.0	92.5	91.0	89.7
71°	93.1	93.7	92.7	91.3	90.0	88.5
71.5°	91.7	92.4	91.3	90.2	88.7	87.3
72°	90.3	91.1	90.2	89.0	87.4	86.0
72.5°	89.2	90.1	89.0	87.8	86.2	84.8
73°	88.0	88.8	87.7	86.7	85.1	83.6
73.5°	86.7	87.5	86.5	85.4	83.8	82.5
74°	85.5	86.3	85.3	84.2	82.7	81.4
74.5°	84.5	85.1	84.1	83.0	81.5	80.2
75°	83.3	83.8	82.9	81.8	80.4	79.0
75.5°	82.1	82.7	81.7	80.6	79.2	77.8
76°	80.8	81.5	80.5	79.4	78.1	76.8
76.5°	79.5	80.2	79.3	78.3	77.0	75.5
77°	78.4	79.0	78.1	77.2	75.8	74.4
77.5°	77.2	77.9	77.1	76.0	74.7	73.3
78°	76.4	76.7	75.7	74.8	73.5	72.1
78.5°	75.0	75.5	74.7	73.7	72.4	71.0
79°	73.8	74.4	73.6	72.8	71.2	70.0
79.5°	72.8	73.3	72.4	71.6	70.2	68.9
80°	71.8	72.1	71.3	70.5	69.1	67.8
80.5°	70.6	71.1	70.2	69.3	68.0	66.8
81°	69.4	70.0	69.1	68.4	66.9	65.8
81.5°	68.2	68.9	68.2	67.3	65.9	64.6
82°	67.0	67.9	67.1	66.2	64.8	63.6
82.5°	65.9	66.7	66.0	65.1	63.9	62.6
83°	64.8	65.7	65.1	64.1	62.9	61.5
83.5°	63.7	64.6	64.1	63.1	61.9	60.6
84°	62.8	63.6	63.1	62.1	60.9	59.6
84.5°	61.7	62.5	62.0	61.1	60.0	58.6
85°	60.7	61.5	60.9	60.2	59.0	57.7
85.5°	59.7	60.4	60.1	59.3	58.1	56.8
86°	58.7	59.4	59.0	58.3	57.1	56.1
86.5°	57.8	58.5	58.0	57.5	56.3	55.1
87°	56.8	57.6	57.1	56.5	55.4	54.1
87.5°	56.0	56.7	56.3	55.8	54.5	53.3
88°	55.2	55.9	55.3	54.9	53.6	52.4
88.5°	54.2	55.0	54.4	54.0	52.8	51.6
89°	53.2	54.1	53.5	53.0	51.9	50.8
89.5°	52.3	53.2	52.6	52.1	51.1	49.9



TEST NUMBER: P601031
 CATALOG NUMBER: FM89S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	51.3	52.4	51.8	51.2	50.3	49.1
90.5°	50.5	51.6	50.8	50.4	49.5	48.3
91°	49.7	50.8	50.0	49.6	48.7	47.6
91.5°	48.9	49.8	49.2	48.8	47.8	46.7
92°	48.0	49.0	48.4	48.0	47.1	46.0
92.5°	47.2	48.1	47.6	47.2	46.2	45.2
93°	46.5	47.3	46.8	46.4	45.6	44.5
93.5°	45.8	46.7	46.0	45.6	44.8	43.7
94°	44.9	45.9	45.4	44.9	44.0	43.2
94.5°	44.2	45.1	44.6	44.1	43.4	42.4
95°	43.6	44.4	43.9	43.5	42.6	41.7
95.5°	42.8	43.6	43.3	42.7	42.0	41.0
96°	42.1	42.8	42.5	42.1	41.3	40.3
96.5°	41.6	42.2	41.9	41.4	40.7	39.7
97°	40.7	41.4	41.2	40.8	40.2	39.1
97.5°	40.0	40.8	40.5	40.2	39.5	38.5
98°	39.4	40.3	39.8	39.4	38.9	37.8
98.5°	38.6	39.6	39.2	39.0	38.2	37.2
99°	38.3	39.1	38.6	38.3	37.6	36.6
99.5°	37.4	38.3	38.0	37.7	37.0	36.1
100°	36.8	37.7	37.4	37.1	36.5	35.5
100.5°	36.2	37.2	36.7	36.5	35.8	35.0
101°	35.6	36.6	36.1	35.9	35.3	34.4
101.5°	35.0	36.0	35.6	35.3	34.7	33.9
102°	34.3	35.3	35.1	34.8	34.2	33.4
102.5°	34.1	34.9	34.6	34.3	33.7	32.9
103°	33.3	34.3	34.0	33.8	33.2	32.4
103.5°	33.0	33.8	33.3	33.4	32.7	31.8
104°	32.3	33.3	32.8	32.5	31.9	31.1
104.5°	31.9	32.7	32.6	32.3	31.8	30.9
105°	31.3	32.2	32.1	31.9	31.2	30.5
105.5°	31.0	31.8	31.6	31.5	30.8	30.0
106°	30.5	31.0	31.2	31.0	30.4	29.6
106.5°	30.0	30.8	30.8	30.6	29.9	29.2
107°	29.6	30.5	30.3	30.1	29.5	28.8
107.5°	29.1	30.0	29.9	29.7	29.1	28.4
108°	28.8	29.6	29.5	29.2	28.7	28.0
108.5°	28.4	29.2	29.0	28.8	28.3	27.6
109°	27.9	28.8	28.6	28.5	28.0	27.3
109.5°	27.7	28.4	28.2	28.0	27.6	27.0
110°	27.2	28.0	27.8	27.7	27.2	26.6
110.5°	26.9	27.7	27.6	27.3	26.9	26.3
111°	26.7	27.4	27.2	27.0	26.5	25.9
111.5°	26.1	27.1	26.8	26.6	26.2	25.6
112°	25.9	26.7	26.6	26.4	25.9	25.3



TEST NUMBER: P601031
 CATALOG NUMBER: FM89S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	25.8	26.5	26.2	26.1	25.6	25.0
113°	25.2	26.1	25.9	25.7	25.3	24.7
113.5°	24.9	25.8	25.6	25.5	25.1	24.5
114°	24.7	25.5	25.3	25.2	24.8	24.2
114.5°	24.4	25.3	25.0	24.9	24.5	23.9
115°	24.0	24.9	24.7	24.6	24.2	23.6
115.5°	23.7	24.7	24.5	24.4	23.9	23.4
116°	23.6	24.4	24.3	24.1	23.7	23.2
116.5°	23.2	24.2	24.0	23.9	23.5	22.9
117°	23.0	23.9	23.8	23.7	23.3	22.9
117.5°	22.7	23.7	23.6	23.5	23.0	22.7
118°	22.7	23.6	23.4	23.3	22.9	22.6
118.5°	22.5	23.4	23.2	23.1	22.8	22.4
119°	22.1	23.2	23.0	22.8	22.6	22.2
119.5°	21.9	23.0	22.8	22.8	22.5	22.0
120°	21.9	22.9	22.8	22.7	22.3	21.8
120.5°	21.8	22.8	22.8	22.6	22.2	21.7
121°	21.8	22.7	22.6	22.4	22.0	21.5
121.5°	21.7	22.6	22.4	22.3	21.9	21.4
122°	21.5	22.4	22.4	22.1	21.8	21.2
122.5°	21.2	22.2	22.3	22.0	21.6	21.2
123°	21.2	22.2	22.2	21.9	21.5	21.0
123.5°	21.3	22.1	22.0	21.8	21.4	21.0
124°	21.2	22.0	22.0	21.6	21.3	20.9
124.5°	21.2	22.0	21.9	21.6	21.3	20.8
125°	21.2	21.8	21.8	21.5	21.2	20.8
125.5°	21.2	21.7	21.8	21.4	21.2	20.6
126°	21.2	21.7	21.8	21.4	21.0	20.6
126.5°	21.2	21.7	21.8	21.4	21.0	20.6
127°	21.2	21.7	21.8	21.4	20.9	20.6
127.5°	21.2	21.6	21.8	21.2	20.9	20.6
128°	21.2	21.6	21.8	21.2	20.9	20.6
128.5°	21.3	21.6	21.8	21.3	20.9	20.4
129°	21.2	21.6	21.8	21.2	20.9	20.5
129.5°	21.2	21.6	21.8	21.2	20.9	20.5
130°	21.3	21.6	21.8	21.2	20.9	20.4
130.5°	21.3	21.6	21.8	21.2	20.9	20.4
131°	21.3	21.7	21.8	21.2	20.9	20.4
131.5°	21.3	21.7	21.8	21.2	21.0	20.4
132°	21.3	21.7	21.8	21.2	20.9	20.4
132.5°	21.3	21.8	21.8	21.2	20.9	20.4
133°	21.3	21.8	21.8	21.2	21.2	20.4
133.5°	21.3	21.8	21.8	21.2	21.3	20.4
134°	21.4	21.8	21.8	21.2	21.5	20.5
134.5°	21.3	21.9	21.8	21.2	21.8	20.5



TEST NUMBER: P601031
 CATALOG NUMBER: FM89S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	21.3	21.9	21.8	21.2	21.8	20.6
135.5°	21.4	21.8	21.8	21.2	22.0	20.7
136°	21.5	21.8	21.8	21.2	22.0	20.7
136.5°	21.5	21.8	21.8	21.2	21.9	20.7
137°	21.7	22.0	21.8	21.3	21.9	20.7
137.5°	21.7	22.0	21.8	21.5	21.9	20.7
138°	21.9	22.0	21.8	21.7	21.9	20.8
138.5°	21.8	22.0	21.8	21.8	21.9	20.9
139°	21.9	22.0	21.8	21.8	21.9	21.0
139.5°	22.0	22.1	21.8	21.8	21.9	21.1
140°	22.1	22.2	21.9	21.8	21.9	21.2
140.5°	22.1	22.4	21.9	21.9	21.9	21.2
141°	22.3	22.8	21.9	21.9	21.9	21.2
141.5°	22.2	22.9	22.0	21.9	21.9	21.3
142°	22.2	22.8	21.9	21.9	21.9	21.4
142.5°	22.2	22.8	22.0	22.0	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	22.0	21.7
144°	22.2	22.8	22.4	22.4	22.0	21.8
144.5°	22.3	22.8	22.6	22.6	22.0	21.8
145°	22.3	22.8	22.7	22.8	22.0	21.8
145.5°	22.3	22.8	22.7	22.8	22.2	21.9
146°	22.3	22.8	22.7	22.8	22.4	21.9
146.5°	22.3	22.8	22.8	22.8	22.7	22.0
147°	22.5	22.8	22.8	22.8	22.7	22.0
147.5°	22.4	22.8	22.8	23.0	22.9	22.1
148°	22.5	22.8	22.8	23.0	22.8	22.3
148.5°	22.5	22.8	22.9	23.2	22.8	22.6
149°	22.5	22.9	23.0	23.5	22.9	22.7
149.5°	22.7	22.9	23.1	23.6	22.9	22.7
150°	22.7	23.0	23.1	23.7	22.9	22.7
150.5°	22.7	23.1	23.0	23.7	22.9	22.7
151°	22.7	23.5	23.0	23.7	22.9	22.8
151.5°	22.7	23.6	23.0	23.8	23.0	22.9
152°	22.7	23.8	23.1	23.8	23.1	23.0
152.5°	22.7	23.8	23.1	23.8	23.1	23.1
153°	22.8	23.9	23.1	23.8	23.1	23.2
153.5°	22.8	23.8	23.3	23.9	23.3	23.3
154°	22.7	23.8	23.7	23.9	23.6	23.7
154.5°	22.7	23.9	23.7	23.9	23.8	23.7
155°	22.6	24.0	23.9	23.9	23.9	23.7
155.5°	22.6	24.1	24.1	23.9	23.8	23.7
156°	22.5	24.3	24.3	23.9	23.8	23.7
156.5°	22.5	24.4	24.7	23.9	23.9	23.9
157°	22.3	24.7	24.9	23.9	23.9	23.9



TEST NUMBER: P601031
 CATALOG NUMBER: FM89S1EWHR_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	22.1	24.9	24.9	23.9	24.0	23.9
158°	22.0	24.9	24.9	23.9	24.0	23.9
158.5°	21.9	24.8	24.9	23.9	23.9	23.9
159°	21.9	24.8	24.9	24.0	23.9	23.9
159.5°	21.9	24.8	25.1	24.1	23.9	23.9
160°	21.8	24.8	25.1	24.3	23.9	23.9
160.5°	21.8	24.8	25.2	24.5	23.9	23.9
161°	21.8	24.9	25.2	24.5	23.9	23.9
161.5°	21.8	24.9	25.1	24.5	23.9	24.0
162°	21.8	24.8	25.2	24.5	23.9	23.9
162.5°	21.7	24.5	24.9	24.4	23.9	23.9
163°	21.7	24.2	24.5	23.9	23.6	23.5
163.5°	21.2	24.0	24.1	23.6	23.3	23.1
164°	20.9	23.6	23.7	23.2	22.9	22.9
164.5°	20.5	23.4	23.3	22.8	22.7	22.5
165°	20.2	22.8	22.8	22.6	22.3	22.2
165.5°	19.8	22.6	22.6	22.3	22.0	21.8
166°	19.6	22.1	22.1	21.8	21.6	21.4
166.5°	19.4	21.7	21.7	21.5	21.2	21.0
167°	18.9	21.2	21.4	21.0	20.9	20.6
167.5°	18.5	20.8	20.9	20.7	20.6	20.3
168°	18.4	20.5	20.5	20.3	20.2	20.1
168.5°	18.0	20.2	20.2	20.0	19.9	19.7
169°	17.7	19.7	19.7	19.7	19.5	19.5
169.5°	17.5	19.4	19.3	19.3	19.2	19.1
170°	17.4	19.0	18.9	19.1	18.9	18.6
170.5°	16.7	18.5	18.6	18.7	18.5	18.3
171°	16.3	18.1	18.3	18.3	18.3	17.9
171.5°	16.1	17.6	17.9	18.0	17.9	17.5
172°	15.5	17.0	17.4	17.6	17.5	17.2
172.5°	15.2	16.5	17.0	17.2	17.1	16.9
173°	14.9	15.9	16.4	16.7	16.7	16.4
173.5°	14.4	15.3	15.7	16.2	16.2	16.0
174°	14.1	14.8	15.1	15.6	15.7	15.5
174.5°	13.5	14.3	14.6	15.0	15.1	15.0
175°	13.1	13.9	13.9	14.4	14.6	14.5
175.5°	12.5	13.4	13.4	13.6	14.0	13.9
176°	11.9	12.9	12.8	13.1	13.5	13.3
176.5°	11.3	12.3	12.1	12.4	12.9	12.8
177°	10.7	11.7	11.6	11.8	12.2	12.2
177.5°	10.2	11.5	11.5	11.5	12.1	12.1
178°	10.2	11.9	11.4	11.5	12.3	12.8
178.5°	10.6	12.9	12.2	12.3	13.0	13.3
179°	11.9	13.1	12.7	13.1	13.2	13.4
179.5°	13.4	13.2	13.2	13.4	13.3	13.4



TEST NUMBER: P601031
CATALOG NUMBER: FM89S1EWHR_3000K

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)