

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: P601029

Luminaire Tested: FM159S1EWHR_4000K

Issue Date: 3/13/2023

Test Information

Test Method: LM-79-2019
Report Number: P601029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2117574B001)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: FM159S1EWHR_4000K
Description: FM159S1EWHR at 4000K
Light Source: -
Ballast/Driver: -

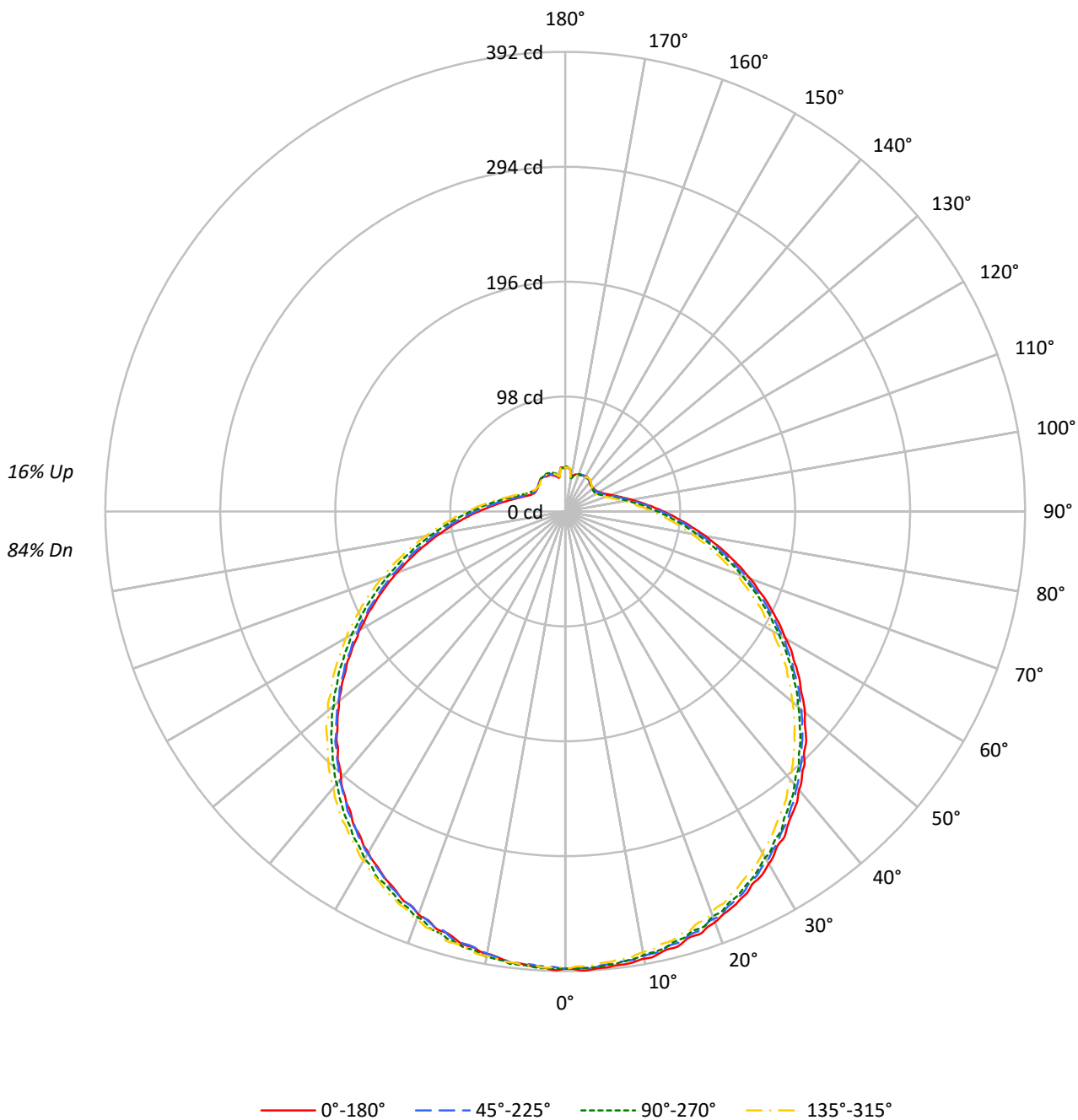
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1628.8 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.43
Luminous Opening: Vertical Cylinder (Dia: 1.25' x H: 0.33')
CIE Type: Semi-Direct

Input Watts (W): 17.4
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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	115	115	115	115	111	111	111	111	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°	3421	3421	3421	3421
5°	3341	3327	3319	3325
10°	3257	3231	3220	3241
15°	3182	3149	3122	3154
20°	3101	3057	3042	3063
25°	3025	2983	2940	2974
30°	2943	2892	2848	2899
35°	2857	2808	2751	2801
40°	2770	2717	2655	2705
45°	2677	2628	2560	2612
50°	2598	2529	2452	2509
55°	2506	2444	2351	2425
60°	2409	2337	2244	2331
65°	2324	2235	2135	2232
70°	2237	2144	2036	2144
75°	2162	2059	1947	2068
80°	2113	1993	1879	2018
85°	2103	1985	1862	2022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 337.5°
 Vertical Angle: 45°
 Luminance: 2687 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.0	2.3
10°-20°	106.7	6.6
20°-30°	164.1	10.1
30°-40°	202.4	12.4
40°-50°	217.5	13.4
50°-60°	209.8	12.9
60°-70°	183.2	11.2
70°-80°	145.0	8.9
80°-90°	105.0	6.4
90°-100°	72.0	4.4
100°-110°	49.0	3.0
110°-120°	35.0	2.1
120°-130°	27.9	1.7
130°-140°	24.6	1.5
140°-150°	21.6	1.3
150°-160°	15.9	1.0
160°-170°	9.1	0.6
170°-180°	3.3	0.2
0°-30°	307.7	18.9
0°-40°	510.1	31.3
0°-60°	937.4	57.5
0°-90°	1370.6	84.1
90°-120°	156.0	9.6
90°-150°	229.9	14.1
90°-180°	258.0	15.8
0°-180°	1628.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	390	390	390	390	390	
5°	391	389	388	389	391	37
15°	382	378	375	379	382	108
25°	362	356	351	356	362	167
35°	330	324	317	323	330	206
45°	288	283	276	281	288	223
55°	242	236	228	235	242	217
65°	193	185	177	185	193	191
75°	144	137	130	138	144	152
85°	101	96	90	97	101	87
90°	84	79	74	81	84	46
95°	69	64	61	67	69	54
105°	48	45	43	48	48	52
115°	36	34	33	36	36	37
125°	31	30	30	32	31	28
135°	31	31	32	32	31	24
145°	34	35	35	35	34	21
155°	34	34	34	36	34	16
165°	33	32	31	34	33	9
175°	37	38	37	37	37	3
180°	37	37	37	37	37	



TEST NUMBER: P601029
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0
0.5°	390.0	390.0	390.0	389.9	390.0	389.7	389.7	390.0	390.6	390.5	389.7
1°	390.3	389.9	389.9	389.9	390.0	389.2	388.7	390.0	391.3	390.4	389.2
1.5°	391.0	390.1	389.9	389.9	390.0	388.7	388.2	390.0	391.3	390.3	388.5
2°	391.8	390.2	389.7	389.9	390.0	388.7	388.2	390.0	390.6	389.9	388.4
2.5°	392.0	390.2	389.7	389.9	389.9	388.8	388.2	389.9	389.4	389.8	388.4
3°	391.6	390.3	390.3	389.5	389.6	388.7	388.2	389.2	389.3	389.3	388.4
3.5°	391.1	390.3	391.1	389.4	389.6	388.5	387.8	388.5	389.2	388.4	388.4
4°	390.8	390.1	389.3	389.4	389.5	387.8	387.1	388.4	389.2	388.3	387.7
4.5°	390.6	390.1	388.3	389.2	389.2	387.5	386.5	388.5	388.6	388.3	387.4
5°	390.6	390.1	388.1	388.9	389.0	387.0	386.2	388.3	388.0	388.4	387.5
5.5°	390.4	390.1	388.1	388.3	388.3	386.8	386.1	387.7	387.5	388.0	387.7
6°	389.8	390.0	388.1	387.8	388.2	386.8	385.9	387.4	387.2	387.1	387.7
6.5°	389.7	389.2	388.1	387.8	388.1	386.8	385.1	387.4	387.4	386.3	387.7
7°	389.5	388.5	387.1	387.9	387.4	386.7	384.9	386.7	387.5	385.5	387.3
7.5°	389.5	388.4	386.8	387.7	387.2	385.8	385.0	385.7	386.8	385.3	386.2
8°	389.4	388.3	386.8	387.2	386.6	385.3	384.9	385.2	385.7	385.2	385.0
8.5°	389.0	388.4	386.8	386.8	386.3	385.4	384.3	384.9	384.7	385.1	384.3
9°	388.3	388.4	386.8	386.5	385.8	385.4	383.1	384.2	383.9	383.8	384.1
9.5°	387.6	387.2	386.0	385.8	385.1	385.2	382.2	383.3	383.3	382.7	383.6
10°	387.4	386.4	385.0	384.6	384.3	384.4	381.7	383.3	383.0	382.8	383.0
10.5°	387.4	386.4	384.5	383.6	383.7	383.0	381.3	383.4	383.0	383.5	382.2
11°	387.4	386.5	384.3	383.3	383.5	382.0	381.2	383.1	382.2	383.0	381.6
11.5°	386.6	386.4	384.3	382.9	383.4	380.8	380.7	381.6	380.7	382.0	380.3
12°	385.5	384.7	384.3	382.6	382.9	380.2	379.2	379.9	379.8	380.2	379.5
12.5°	384.5	383.2	383.4	381.9	382.4	379.6	377.9	378.7	379.8	378.9	378.9
13°	383.7	382.8	381.5	380.7	381.5	379.2	377.8	378.7	379.6	378.1	378.6
13.5°	383.6	382.7	380.7	380.2	380.3	379.1	377.7	378.7	379.2	378.0	378.6
14°	383.6	382.7	380.4	379.8	379.0	378.5	377.2	378.6	377.8	377.9	378.4
14.5°	383.3	382.4	380.4	378.9	378.3	377.1	375.9	377.3	376.2	377.1	377.6
15°	382.0	381.4	380.2	378.1	378.0	376.0	374.1	375.2	374.8	375.7	376.4
15.5°	380.3	380.4	379.1	377.6	377.7	375.3	373.4	373.8	373.7	374.0	374.6
16°	378.8	379.1	377.2	377.2	376.4	375.2	373.4	373.8	373.1	372.6	372.7
16.5°	378.3	377.9	376.2	376.6	374.7	374.4	373.1	373.8	373.1	372.1	371.9
17°	378.3	377.0	375.7	375.7	373.8	373.3	371.5	373.0	372.9	371.2	371.9
17.5°	378.3	376.4	375.7	373.8	373.7	372.1	369.5	371.0	371.6	370.1	371.4
18°	377.8	376.3	375.7	372.2	373.6	370.5	368.6	368.6	369.4	368.9	369.9
18.5°	376.0	375.9	374.1	371.8	373.4	369.2	368.5	367.6	367.6	367.7	368.3
19°	374.6	374.6	371.5	371.6	371.4	368.4	368.0	367.5	367.0	366.9	367.1
19.5°	373.7	372.5	370.1	370.9	369.1	367.8	366.5	367.0	366.8	365.9	366.0
20°	372.9	371.0	369.8	368.8	367.6	367.2	364.4	365.9	365.8	364.6	365.1
20.5°	371.8	370.3	369.7	366.7	367.0	366.0	362.7	364.1	363.7	363.3	363.8
21°	370.2	369.7	369.4	366.1	366.8	364.9	361.5	362.2	361.7	362.0	362.2
21.5°	368.9	369.1	367.9	365.8	366.0	363.5	360.8	361.2	360.6	360.9	361.0
22°	368.2	368.2	365.4	365.2	364.2	361.8	360.6	360.4	360.3	360.2	360.3



TEST NUMBER: P601029
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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°	367.2	366.4	364.2	363.7	362.3	360.7	358.9	359.2	359.6	358.8	359.3
23°	366.2	364.4	363.3	361.7	361.0	359.7	356.7	357.6	358.1	356.8	358.2
23.5°	365.2	363.2	362.3	359.8	360.3	358.2	355.5	355.9	356.2	355.4	356.6
24°	363.7	362.2	361.1	358.5	359.5	356.3	354.8	354.3	354.3	354.0	355.1
24.5°	362.4	361.2	360.1	357.5	358.4	354.7	353.3	353.4	352.8	352.6	353.7
25°	361.6	360.2	359.0	356.4	356.5	353.7	351.6	352.3	351.4	351.2	353.0
25.5°	360.5	359.2	357.1	355.2	355.0	352.9	349.8	351.2	350.2	349.9	351.4
26°	358.4	357.2	354.9	353.7	353.5	351.4	348.5	350.0	349.0	349.1	349.6
26.5°	356.2	355.0	353.4	352.1	352.4	350.1	347.3	348.2	347.4	347.4	347.7
27°	354.9	353.9	352.4	351.0	351.2	348.5	346.2	346.7	345.5	345.5	346.1
27.5°	354.3	353.0	351.5	349.9	349.7	346.7	345.0	345.0	343.7	343.7	344.6
28°	353.5	351.7	350.2	348.1	348.1	344.8	343.5	343.1	342.2	342.5	343.2
28.5°	352.3	349.9	348.1	346.1	346.3	343.4	341.9	341.0	341.0	341.0	341.8
29°	350.5	348.1	346.4	344.2	344.4	342.2	340.2	339.4	339.6	339.1	340.3
29.5°	348.7	346.9	345.3	343.2	342.5	340.8	338.6	338.0	337.9	337.1	338.2
30°	347.0	346.3	344.2	342.6	340.9	339.4	336.4	336.8	335.8	335.7	336.6
30.5°	345.7	345.4	342.7	341.2	340.1	337.3	334.3	335.1	334.3	334.6	335.5
31°	344.0	343.0	340.7	339.4	338.8	335.2	332.6	332.7	333.1	332.7	333.6
31.5°	341.8	340.7	338.6	337.2	336.9	333.9	331.3	331.0	330.9	330.5	331.3
32°	339.2	339.1	337.3	335.1	334.6	332.3	329.7	329.6	328.5	328.3	329.8
32.5°	337.4	337.9	336.2	333.2	332.5	330.5	327.7	327.6	326.6	326.3	328.2
33°	336.3	336.0	334.1	331.3	331.2	328.3	325.7	325.4	325.2	325.0	326.1
33.5°	335.6	333.8	331.6	329.7	330.3	326.1	323.9	323.6	324.1	323.8	323.9
34°	334.4	331.7	329.8	328.2	328.9	324.2	321.8	322.4	322.4	321.8	321.8
34.5°	332.1	330.1	328.3	326.9	326.8	323.0	320.0	321.3	320.2	319.2	320.0
35°	329.6	328.5	326.9	325.0	324.0	321.8	318.3	319.5	317.4	316.6	318.5
35.5°	327.5	327.0	325.4	322.6	321.4	319.9	316.3	316.6	315.0	314.8	317.1
36°	325.5	325.6	323.6	320.2	319.7	317.8	314.2	314.1	313.2	314.3	315.6
36.5°	323.7	323.6	321.1	318.7	318.1	315.3	312.9	312.1	312.0	313.5	313.0
37°	322.0	321.2	318.8	317.4	315.9	312.9	311.2	311.0	310.2	311.3	310.3
37.5°	320.4	319.4	316.9	315.1	314.1	311.2	309.4	309.0	307.9	308.5	308.2
38°	318.9	317.2	315.7	312.5	312.5	310.6	307.1	306.3	305.8	305.8	306.6
38.5°	317.2	315.1	314.2	310.4	311.0	308.9	304.4	304.0	304.1	303.5	304.9
39°	315.0	313.1	311.6	308.9	308.9	306.0	302.2	302.3	302.2	301.9	302.7
39.5°	312.4	311.6	309.0	307.7	306.6	303.2	300.4	300.5	300.0	299.9	300.9
40°	310.2	310.2	306.9	306.1	304.2	300.9	298.5	298.3	297.3	297.2	298.9
40.5°	308.5	307.8	305.3	303.3	302.0	299.0	296.3	295.7	294.6	294.6	296.8
41°	306.7	305.0	303.3	300.4	299.6	296.9	294.0	293.3	292.1	292.4	294.3
41.5°	304.3	302.6	300.8	298.2	297.9	295.0	291.9	291.5	290.2	290.6	291.7
42°	301.9	300.6	298.5	296.8	297.0	293.2	290.0	289.6	288.5	289.0	289.7
42.5°	299.7	298.9	296.6	295.4	294.8	291.1	287.6	287.4	287.0	287.1	287.7
43°	298.2	297.0	294.7	293.4	292.1	288.5	285.2	285.2	284.3	284.8	285.2
43.5°	296.6	295.0	292.8	290.3	289.2	286.1	283.1	282.7	281.4	282.1	282.7
44°	293.6	292.5	290.6	286.9	286.8	283.8	281.0	280.3	279.0	279.1	280.7
44.5°	290.3	290.0	287.9	284.8	284.9	281.9	278.8	278.2	277.6	276.4	279.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	288.4	287.5	285.1	283.2	283.1	279.7	276.6	275.8	275.7	274.4	277.2
45.5°	286.8	285.0	282.9	281.2	280.9	277.5	273.9	273.3	273.2	273.1	274.1
46°	285.2	283.3	280.9	278.4	278.7	275.3	271.5	271.0	270.2	271.2	271.3
46.5°	283.3	281.2	278.8	275.8	276.4	273.0	269.5	268.7	267.7	268.3	269.4
47°	280.6	278.9	276.6	273.9	273.8	270.4	267.3	266.4	265.5	265.0	267.1
47.5°	278.0	275.9	274.2	272.4	271.3	267.7	264.8	264.3	263.3	262.7	264.4
48°	275.4	273.3	271.8	270.2	269.0	265.7	262.6	261.8	261.0	261.5	262.1
48.5°	272.8	271.2	269.8	267.5	266.7	263.5	260.3	259.4	258.3	259.6	259.9
49°	270.5	269.7	267.4	264.6	264.4	261.1	257.9	256.9	255.8	257.0	257.5
49.5°	268.6	267.9	264.9	262.1	262.1	258.8	255.6	254.2	253.5	254.0	255.0
50°	266.7	265.7	262.4	259.9	259.6	256.8	253.1	251.7	251.7	251.1	252.5
50.5°	264.6	262.7	260.0	257.9	256.9	254.4	250.5	249.9	249.3	248.8	249.9
51°	261.7	259.3	257.5	256.0	255.0	251.8	247.9	248.1	246.5	246.8	247.7
51.5°	259.4	256.9	255.5	253.7	252.9	249.2	245.9	245.7	243.9	244.7	245.7
52°	256.5	255.2	253.3	250.3	250.7	246.7	243.8	243.0	241.8	242.2	243.7
52.5°	253.7	253.5	251.1	247.5	248.3	244.2	241.3	240.3	239.4	239.5	241.5
53°	251.4	251.1	248.7	245.1	245.4	241.7	238.5	238.0	236.8	236.5	238.7
53.5°	249.4	247.9	246.3	243.0	242.5	240.1	235.9	235.7	233.8	234.0	235.7
54°	247.4	245.4	243.5	241.1	240.3	237.8	234.0	233.3	231.3	232.1	233.1
54.5°	245.0	242.9	240.8	238.8	238.4	234.9	232.3	231.0	229.4	230.0	231.1
55°	242.5	240.9	238.1	236.5	236.5	232.2	229.8	228.7	227.5	227.4	229.2
55.5°	240.0	238.2	235.8	233.7	234.0	229.8	226.8	226.0	224.9	224.7	226.6
56°	237.8	235.5	233.7	231.0	231.1	227.5	223.7	222.9	221.9	222.0	223.8
56.5°	234.9	233.1	231.5	228.7	228.3	225.0	221.1	220.1	219.2	219.5	220.9
57°	232.1	230.8	228.9	226.4	225.7	222.4	219.3	217.9	217.0	217.0	218.1
57.5°	230.1	228.5	226.1	223.9	223.4	219.6	217.1	215.7	214.6	214.6	216.1
58°	228.1	225.8	223.6	221.3	221.2	217.1	214.2	213.2	211.9	212.0	214.3
58.5°	225.7	222.9	221.3	218.8	218.6	214.8	211.3	210.5	209.0	209.5	211.9
59°	222.8	220.4	219.3	215.8	215.7	212.3	208.6	207.8	206.4	207.1	208.8
59.5°	220.2	218.1	217.2	213.2	212.9	209.7	206.4	205.5	204.7	205.1	206.0
60°	217.3	215.9	214.4	211.0	210.8	207.2	204.5	203.0	202.4	202.8	203.8
60.5°	214.5	213.4	211.4	208.9	208.4	204.9	201.9	200.2	199.5	200.3	202.2
61°	212.2	210.7	208.7	206.4	205.6	202.3	199.0	197.5	196.8	197.3	200.2
61.5°	209.9	208.1	206.3	204.0	202.8	199.6	196.0	195.2	194.4	194.4	197.4
62°	207.6	206.1	204.0	201.6	200.2	197.0	193.4	193.1	192.1	192.0	194.2
62.5°	205.1	203.9	201.4	199.2	198.3	194.6	191.2	190.7	189.7	190.2	191.3
63°	202.4	201.5	198.8	196.2	196.3	192.1	189.4	187.9	187.1	188.1	189.1
63.5°	199.7	198.5	196.2	193.5	193.4	189.8	187.0	185.4	184.3	185.5	187.5
64°	197.3	195.6	193.8	191.4	190.5	187.2	184.2	182.8	181.7	182.5	184.9
64.5°	195.0	193.1	191.6	189.1	187.7	184.6	181.2	180.3	179.2	179.6	182.1
65°	192.7	190.8	189.2	186.8	185.3	181.9	178.6	177.6	177.0	177.3	179.4
65.5°	190.1	188.5	186.8	183.9	183.3	179.5	176.2	175.0	174.9	175.3	177.0
66°	187.7	186.1	184.0	181.3	181.0	177.2	173.9	172.7	172.0	172.9	174.7
66.5°	185.1	183.5	181.4	178.9	178.4	174.7	171.5	170.2	169.4	170.3	172.2
67°	182.5	181.0	178.9	176.5	175.7	172.0	169.0	167.9	167.2	167.8	170.1



TEST NUMBER: P601029
 CATALOG NUMBER: FM159S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	179.8	178.6	176.4	173.9	172.9	169.5	166.5	165.3	164.8	165.4	167.8
68°	177.3	176.3	173.9	171.2	170.3	167.7	163.9	162.9	162.5	163.1	165.0
68.5°	175.2	174.1	171.3	169.1	168.1	165.3	161.5	160.5	160.0	160.8	162.5
69°	172.9	171.4	169.0	166.9	165.5	162.6	159.6	158.1	157.4	158.5	160.5
69.5°	170.6	168.8	166.5	164.4	163.1	159.9	157.4	155.6	155.1	155.9	158.4
70°	167.8	166.0	164.6	161.6	160.8	157.3	154.6	153.1	152.7	153.5	156.0
70.5°	165.3	163.6	162.6	159.1	158.4	155.0	151.9	150.9	150.3	151.2	153.3
71°	163.0	161.4	160.1	156.9	156.0	152.8	149.3	148.7	147.6	148.9	150.9
71.5°	160.6	159.2	157.2	154.8	153.7	150.2	146.8	146.2	145.2	146.8	148.5
72°	158.2	156.7	154.4	152.5	151.1	147.3	144.7	143.8	143.1	144.5	146.2
72.5°	156.0	154.3	152.3	150.1	148.8	145.0	142.4	141.5	140.9	142.0	143.9
73°	153.3	151.6	150.2	147.6	146.6	143.1	140.2	139.1	138.5	139.3	141.4
73.5°	151.1	149.2	148.0	145.2	144.0	141.1	138.0	136.7	136.1	137.0	139.0
74°	148.5	147.1	145.5	142.7	141.5	138.6	135.7	134.1	133.9	135.0	137.1
74.5°	146.2	144.7	143.0	140.2	139.1	136.2	133.3	132.0	131.7	132.9	135.4
75°	143.8	142.5	140.6	138.1	137.0	133.6	131.0	129.9	129.5	130.7	133.2
75.5°	141.6	140.2	138.3	136.0	134.8	131.4	128.7	127.8	127.3	128.2	130.7
76°	139.4	138.1	136.2	133.8	132.6	129.0	126.4	125.6	125.0	126.0	128.1
76.5°	137.1	136.1	134.1	131.8	130.2	126.8	124.2	123.3	122.7	124.0	125.8
77°	134.7	133.7	132.0	129.3	127.9	124.9	121.9	121.1	120.5	122.2	124.0
77.5°	132.4	131.1	129.4	126.8	125.6	122.9	119.6	119.0	118.4	120.1	122.0
78°	130.0	128.8	126.9	124.5	123.5	120.5	117.5	116.8	116.4	117.6	119.8
78.5°	127.9	126.9	124.7	122.4	121.3	118.1	115.5	114.6	114.5	115.3	117.7
79°	125.8	124.9	122.8	120.7	119.1	115.9	113.4	112.3	112.5	113.0	115.5
79.5°	123.8	122.7	120.7	118.8	116.9	114.0	111.2	110.2	110.2	111.2	113.5
80°	121.6	120.2	118.5	116.6	114.7	112.0	109.2	108.4	108.1	109.7	111.4
80.5°	119.7	118.1	116.3	114.4	112.8	110.1	107.3	106.6	106.2	107.6	109.4
81°	117.3	116.0	114.4	112.3	110.9	108.1	105.5	104.6	104.2	105.3	107.4
81.5°	115.2	114.0	112.2	110.2	108.7	106.0	103.2	102.5	102.2	103.3	105.5
82°	112.9	111.9	110.3	108.2	106.6	103.8	101.1	100.3	100.5	101.4	103.4
82.5°	110.9	109.9	108.2	106.3	104.9	101.9	99.4	98.4	98.6	99.5	101.4
83°	108.8	107.8	106.4	104.3	102.9	100.0	97.7	96.7	96.8	97.8	99.5
83.5°	107.1	106.0	104.5	102.4	101.0	98.2	96.1	95.2	95.0	96.2	97.9
84°	105.1	104.2	102.7	100.6	99.0	96.4	94.3	93.5	92.9	94.5	96.3
84.5°	103.1	102.1	100.8	98.7	97.0	94.8	92.3	91.6	91.3	92.5	94.7
85°	101.2	100.1	98.9	96.9	95.5	92.8	90.3	89.7	89.6	90.5	92.7
85.5°	99.2	98.2	97.1	95.1	93.7	91.2	88.7	87.9	87.9	88.9	90.8
86°	97.4	96.7	95.6	93.4	91.9	89.3	87.0	86.1	86.2	87.5	88.9
86.5°	95.7	94.9	93.8	91.9	90.1	87.6	85.5	84.4	84.4	86.1	87.5
87°	93.9	93.1	92.0	90.1	88.1	85.8	83.8	82.8	82.7	84.3	86.1
87.5°	92.3	91.4	90.1	88.5	86.6	84.1	82.2	81.5	81.4	82.4	84.5
88°	90.7	89.7	88.5	86.8	84.9	82.5	80.7	79.9	80.0	80.8	82.7
88.5°	88.8	87.9	86.8	85.1	83.3	81.0	79.0	78.2	78.4	79.3	81.1
89°	86.9	86.3	85.2	83.5	81.8	79.4	77.5	76.7	76.8	78.0	79.4
89.5°	85.4	84.6	83.6	81.9	80.1	77.7	75.8	75.2	75.2	76.5	77.9



TEST NUMBER: P601029
 CATALOG NUMBER: FM159S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	83.9	83.2	82.0	80.3	78.6	76.2	74.5	73.8	73.7	74.8	76.5
90.5°	82.4	81.6	80.4	78.8	77.1	74.7	73.1	72.4	72.3	73.4	75.2
91°	80.8	79.9	78.9	77.5	75.5	73.4	71.6	71.1	71.0	72.1	73.8
91.5°	79.0	78.5	77.5	76.0	73.8	72.0	70.1	69.6	69.6	70.7	72.3
92°	77.5	76.9	76.2	74.6	72.5	70.7	68.7	68.1	68.2	69.5	70.9
92.5°	76.1	75.5	74.7	73.1	71.2	69.2	67.5	66.7	66.9	68.1	69.5
93°	74.9	74.1	73.0	71.5	69.9	67.8	66.2	65.4	65.5	66.8	68.2
93.5°	73.5	72.7	71.6	70.2	68.5	66.5	64.8	64.2	64.3	65.4	67.0
94°	72.0	71.3	70.5	69.0	67.1	65.2	63.8	63.1	63.2	64.1	65.7
94.5°	70.5	70.1	69.2	67.8	65.7	64.1	62.3	61.9	62.1	63.1	64.5
95°	69.1	68.8	67.7	66.5	64.4	62.6	61.2	60.8	60.8	61.8	63.2
95.5°	67.9	67.3	66.3	65.1	63.2	61.4	60.2	59.8	59.7	60.7	61.9
96°	66.7	65.9	65.1	63.7	62.1	60.5	59.3	58.6	58.7	59.7	60.8
96.5°	65.5	64.9	64.0	62.6	60.9	59.6	58.3	57.4	57.6	58.6	59.9
97°	64.1	63.7	63.0	61.5	59.8	58.4	56.8	56.3	56.5	57.5	59.0
97.5°	63.0	62.6	61.8	60.5	58.5	57.1	55.7	55.2	55.5	56.6	57.9
98°	61.9	61.5	60.7	59.3	57.4	55.9	54.8	54.3	54.7	55.5	56.5
98.5°	60.9	60.4	59.5	58.2	56.4	55.0	53.8	53.3	53.6	54.4	55.5
99°	59.7	59.2	58.4	57.3	55.4	53.9	52.8	52.3	52.7	53.4	54.8
99.5°	58.6	58.1	57.4	56.2	54.4	53.0	51.8	51.6	51.6	52.6	53.8
100°	57.6	57.1	56.4	55.1	53.3	52.0	50.8	50.5	50.6	51.6	52.8
100.5°	56.6	56.1	55.4	54.1	52.2	51.0	50.0	49.6	49.9	50.7	51.9
101°	55.5	55.0	54.4	53.1	51.6	50.1	49.2	48.8	49.2	49.9	50.8
101.5°	54.6	53.8	53.4	52.2	50.6	49.1	48.1	47.9	48.3	49.2	49.9
102°	53.7	52.9	52.4	51.4	49.7	48.2	47.3	47.2	47.3	48.3	49.3
102.5°	52.7	52.2	51.4	50.5	48.7	47.4	46.5	46.4	46.4	47.4	48.3
103°	51.4	51.4	50.5	49.7	47.7	46.5	45.8	45.6	46.2	46.5	47.5
103.5°	50.7	50.6	49.7	48.8	47.0	45.9	45.1	44.8	45.0	46.0	46.8
104°	49.9	49.2	48.9	47.9	46.2	45.0	44.4	44.1	44.4	45.1	46.0
104.5°	49.3	48.3	48.0	47.0	45.5	44.1	43.5	43.6	43.7	44.7	45.3
105°	48.5	47.7	47.1	46.4	44.8	43.6	42.7	42.7	43.0	43.8	44.7
105.5°	47.5	47.0	46.5	45.7	43.9	42.9	41.9	41.9	42.4	43.0	43.8
106°	46.8	46.3	45.6	44.8	43.2	42.1	41.5	41.5	41.7	42.5	43.2
106.5°	46.1	45.6	44.9	44.2	42.5	41.5	41.0	40.6	41.3	41.8	42.5
107°	45.3	44.9	44.3	43.4	41.8	40.8	40.2	40.3	40.5	41.6	41.9
107.5°	44.6	44.1	43.6	42.8	41.3	40.3	39.7	39.6	40.0	40.4	41.5
108°	43.8	43.4	43.0	42.2	40.4	39.5	39.0	39.1	39.3	40.1	40.6
108.5°	43.3	42.7	42.3	41.8	39.9	38.9	38.4	38.4	38.8	39.4	40.2
109°	42.6	42.2	41.6	41.1	39.3	38.3	37.7	37.8	38.2	38.8	39.5
109.5°	42.1	41.5	41.1	40.3	38.8	38.0	37.1	37.3	37.7	38.3	39.2
110°	41.4	40.9	40.4	39.7	38.1	37.3	36.8	36.9	37.1	37.9	38.4
110.5°	40.8	40.3	39.9	39.0	37.6	37.0	36.4	36.6	37.1	37.4	37.9
111°	40.2	39.9	39.3	38.6	37.2	36.3	35.7	35.9	36.3	37.1	37.4
111.5°	39.7	39.2	38.8	38.1	36.9	35.7	35.2	35.4	35.8	36.8	37.0
112°	39.1	38.6	38.2	37.6	36.0	35.3	34.8	34.8	35.4	35.9	36.9



TEST NUMBER: P601029
 CATALOG NUMBER: FM159S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	38.7	38.3	37.7	37.3	35.7	34.8	34.5	34.6	34.9	35.7	36.2
113°	38.3	37.7	37.4	36.8	35.1	34.5	34.0	34.1	34.6	35.0	35.6
113.5°	37.8	37.2	36.9	36.2	34.7	33.9	33.5	33.8	34.1	34.7	35.5
114°	37.3	36.9	36.5	35.8	34.2	33.6	33.3	33.6	33.7	34.5	34.9
114.5°	36.9	36.4	36.0	35.4	33.7	33.4	32.8	32.9	33.7	34.1	34.9
115°	36.4	36.0	35.6	35.1	33.6	32.8	32.5	32.6	33.4	34.1	34.2
115.5°	36.1	35.6	35.2	34.6	33.2	32.4	32.2	32.6	32.7	33.5	33.8
116°	35.8	35.2	34.9	34.2	32.7	32.3	31.9	32.5	32.4	33.3	33.5
116.5°	35.3	34.8	34.5	33.9	32.4	32.2	31.4	31.8	32.4	32.6	33.5
117°	34.9	34.5	34.2	33.6	32.3	31.6	31.3	31.5	32.1	32.5	33.0
117.5°	34.6	34.3	33.8	33.4	31.8	31.3	31.2	31.2	31.9	32.3	32.6
118°	34.3	33.9	33.5	33.1	31.5	31.3	31.1	31.2	31.6	32.2	32.4
118.5°	34.1	33.6	33.1	32.8	31.3	31.0	30.6	30.9	31.4	31.7	32.3
119°	33.7	33.4	33.0	32.6	31.1	30.9	30.4	30.7	31.2	31.7	32.1
119.5°	33.6	33.1	32.8	32.4	30.8	30.3	30.1	30.4	31.0	31.5	31.7
120°	33.3	32.9	32.4	32.2	30.5	30.1	30.0	30.2	30.7	31.5	31.6
120.5°	33.0	32.6	32.2	31.9	30.3	30.1	30.0	30.2	30.7	31.4	31.4
121°	32.8	32.4	31.9	31.7	30.3	30.1	30.0	30.1	30.4	31.2	31.2
121.5°	32.6	32.3	31.8	31.5	30.2	30.0	29.9	30.0	30.4	30.8	31.2
122°	32.4	32.0	31.6	31.4	30.1	30.0	29.8	30.0	30.5	30.7	31.2
122.5°	32.2	31.9	31.6	31.2	30.1	29.9	29.8	30.0	30.4	30.7	31.1
123°	32.0	31.6	31.4	31.2	29.9	29.9	29.7	29.9	30.4	30.8	30.9
123.5°	31.7	31.4	31.2	31.0	29.9	29.9	29.7	29.9	30.4	30.7	30.9
124°	31.7	31.3	31.1	31.0	29.8	29.9	29.7	29.9	30.5	30.7	30.8
124.5°	31.5	31.3	30.9	30.8	29.8	29.9	29.7	29.9	30.4	30.7	30.8
125°	31.4	31.1	30.8	30.7	29.8	29.9	29.7	29.9	30.4	30.7	30.8
125.5°	31.4	31.0	30.8	30.6	29.8	29.9	29.7	29.9	30.4	30.7	30.8
126°	31.4	30.8	30.7	30.6	29.8	29.9	29.8	29.9	30.4	30.8	30.8
126.5°	31.3	30.9	30.7	30.5	29.8	29.9	29.8	29.9	30.4	30.8	30.8
127°	31.1	30.8	30.6	30.5	29.8	29.9	29.8	29.9	30.4	30.8	30.8
127.5°	31.1	30.8	30.6	30.5	29.9	29.9	29.9	30.0	30.5	30.8	30.8
128°	31.1	30.8	30.6	30.5	30.0	29.9	29.9	30.1	30.5	30.9	30.8
128.5°	31.0	30.7	30.5	30.5	30.1	30.1	30.0	30.1	30.6	30.9	30.9
129°	31.0	30.7	30.5	30.5	30.2	30.1	30.1	30.3	30.6	31.0	30.9
129.5°	31.0	30.7	30.5	30.5	30.3	30.1	30.2	30.2	30.7	31.0	31.1
130°	30.9	30.6	30.5	30.5	30.2	30.1	30.4	30.4	30.7	31.0	31.3
130.5°	30.9	30.6	30.5	30.5	30.2	30.2	30.4	30.4	30.9	31.1	31.3
131°	30.9	30.6	30.5	30.5	30.4	30.4	30.4	30.5	31.0	31.3	31.3
131.5°	30.9	30.6	30.5	30.5	30.4	30.6	30.6	30.6	31.0	31.3	31.3
132°	30.9	30.6	30.5	30.6	30.6	30.6	30.7	30.6	31.2	31.5	31.4
132.5°	30.9	30.6	30.5	30.6	30.6	30.7	30.8	30.9	31.3	31.5	31.5
133°	30.9	30.6	30.6	30.5	30.8	30.8	31.1	31.1	31.5	31.8	31.6
133.5°	30.9	30.6	30.6	30.7	31.0	30.9	31.2	31.3	31.7	31.8	31.6
134°	31.0	30.7	30.6	31.1	31.0	31.1	31.3	31.4	31.9	31.8	31.8
134.5°	30.9	30.7	30.9	31.3	31.3	31.4	31.4	31.6	32.0	32.0	31.9



TEST NUMBER: P601029
 CATALOG NUMBER: FM159S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	30.9	30.7	31.1	31.3	31.4	31.6	31.7	31.7	32.2	32.1	32.1
135.5°	31.3	31.0	31.1	31.2	31.7	31.8	31.9	32.0	32.4	32.5	32.1
136°	31.3	31.2	31.3	31.5	31.8	31.9	32.2	32.1	32.5	32.7	32.3
136.5°	31.3	31.3	31.4	31.7	32.0	32.1	32.3	32.4	32.7	32.9	32.4
137°	31.4	31.4	31.8	32.1	32.1	32.3	32.4	32.5	32.9	32.9	32.3
137.5°	31.7	31.5	32.1	32.3	32.3	32.6	32.6	32.6	32.9	33.1	32.8
138°	31.8	31.7	32.3	32.4	32.5	32.6	32.7	33.0	33.1	33.2	33.1
138.5°	31.9	32.0	32.3	32.4	32.7	32.9	33.1	33.1	33.2	33.3	33.2
139°	32.4	32.4	32.4	32.5	33.0	33.1	33.1	33.3	33.6	33.5	33.3
139.5°	32.6	32.5	32.5	32.7	33.0	33.3	33.4	33.4	33.7	33.7	33.5
140°	32.5	32.5	32.7	33.0	33.3	33.4	33.6	33.6	33.9	34.0	33.8
140.5°	32.7	32.5	32.8	33.2	33.5	33.6	33.8	33.8	34.0	34.3	34.0
141°	32.7	32.7	33.0	33.5	33.7	33.6	33.9	34.0	34.1	34.5	34.2
141.5°	32.9	32.9	33.3	33.6	33.8	33.8	34.1	34.0	34.2	34.6	34.3
142°	33.0	33.0	33.5	33.6	34.0	34.1	34.2	34.2	34.5	34.7	34.6
142.5°	33.6	33.6	33.5	33.9	34.2	34.3	34.5	34.3	34.6	34.8	34.8
143°	33.6	33.6	33.6	34.1	34.2	34.4	34.7	34.4	34.7	35.0	35.0
143.5°	33.7	33.6	33.8	34.6	34.3	34.4	34.7	34.6	34.7	35.1	35.1
144°	33.7	33.6	33.9	34.6	34.4	34.5	34.6	34.6	34.8	35.1	35.2
144.5°	33.7	33.7	34.0	34.6	34.6	34.8	34.6	34.8	34.8	35.0	35.1
145°	33.7	33.7	34.1	34.6	34.6	34.8	34.6	34.8	34.8	35.0	35.1
145.5°	33.7	33.7	34.1	34.6	34.7	34.8	34.6	34.7	34.8	35.0	35.1
146°	33.8	33.9	34.3	34.6	34.8	34.8	34.6	34.8	34.8	35.0	35.1
146.5°	34.3	34.0	34.6	34.6	34.8	34.7	34.6	34.8	34.8	35.0	35.1
147°	34.3	34.1	34.7	34.6	34.6	34.7	34.6	34.7	34.9	35.0	35.2
147.5°	34.2	34.2	34.6	34.6	34.5	34.7	34.6	34.4	34.8	35.0	35.2
148°	34.2	34.2	34.6	34.6	34.0	34.6	34.6	34.2	34.7	35.0	35.1
148.5°	34.2	34.2	34.8	34.6	34.0	34.0	34.5	34.1	34.7	35.1	35.1
149°	34.2	34.2	34.8	34.6	34.1	34.0	34.2	33.9	34.7	35.1	35.0
149.5°	34.2	34.2	34.7	34.7	34.0	33.9	34.0	33.9	34.7	34.7	35.0
150°	34.2	34.2	34.7	34.7	34.0	33.8	33.8	33.8	34.7	34.8	34.8
150.5°	34.2	34.2	34.8	34.6	34.0	33.8	33.6	33.7	34.1	34.7	34.8
151°	34.2	34.3	34.7	34.6	34.0	33.8	33.6	33.7	33.9	34.7	34.8
151.5°	34.2	34.3	34.6	34.7	33.8	33.6	33.6	33.7	33.9	34.7	34.8
152°	34.2	34.2	34.6	34.7	33.7	33.6	33.6	33.7	33.9	34.7	34.7
152.5°	34.2	34.2	34.5	34.7	33.6	33.5	33.6	33.7	33.9	34.7	34.7
153°	34.2	34.0	34.5	34.6	33.7	33.5	33.6	33.7	33.8	34.7	34.7
153.5°	34.2	34.0	34.5	34.6	33.6	33.6	33.6	33.7	33.8	34.7	34.7
154°	34.2	34.0	34.5	34.5	33.6	33.5	33.6	33.7	33.8	34.6	34.7
154.5°	34.2	34.0	34.3	34.4	33.6	33.5	33.6	33.7	33.7	34.6	34.6
155°	34.1	34.0	34.2	34.4	33.6	33.5	33.6	33.7	33.7	34.6	34.6
155.5°	34.1	34.0	34.2	34.4	33.6	33.5	33.6	33.7	33.7	34.5	34.6
156°	34.2	34.0	34.2	34.4	33.6	33.5	33.5	33.7	33.7	34.6	34.6
156.5°	34.2	34.0	34.3	34.4	33.6	33.5	33.5	33.7	33.7	34.6	34.6
157°	34.1	34.0	34.2	34.4	33.6	33.5	33.6	33.7	33.7	34.3	34.6



TEST NUMBER: P601029
 CATALOG NUMBER: FM159S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	34.1	33.9	34.2	34.2	33.6	33.5	33.5	33.5	33.8	34.0	34.6
158°	34.1	33.6	34.1	34.2	33.6	33.5	33.4	33.6	33.8	33.9	34.6
158.5°	34.1	33.6	33.9	34.0	33.6	33.5	33.4	33.4	33.7	33.9	34.5
159°	33.9	33.5	33.7	33.9	33.6	33.5	33.2	33.3	33.6	33.9	34.2
159.5°	33.7	33.5	33.5	33.8	33.6	33.6	33.1	32.9	33.2	33.9	34.0
160°	33.5	33.4	33.4	33.7	33.6	33.6	32.9	32.6	33.0	33.6	33.7
160.5°	33.6	33.2	33.3	33.6	33.3	33.3	32.6	32.5	32.6	33.7	33.6
161°	33.4	33.0	33.3	33.6	32.9	32.9	32.4	32.4	32.5	33.3	33.5
161.5°	33.3	33.0	33.2	33.4	32.8	32.7	32.3	32.4	32.5	33.0	33.5
162°	33.2	32.9	33.0	33.2	32.6	32.5	32.4	32.0	32.4	32.8	33.5
162.5°	33.1	32.9	32.8	33.0	32.5	32.4	32.2	31.7	32.2	32.6	33.0
163°	32.9	32.7	32.7	32.9	32.5	32.3	32.1	31.6	31.9	32.4	32.8
163.5°	32.9	32.5	32.5	32.7	32.5	32.3	31.9	31.5	31.7	32.5	32.6
164°	32.9	32.3	32.4	32.5	31.9	31.8	31.7	31.4	31.6	32.3	32.5
164.5°	32.7	32.2	32.2	32.3	31.7	31.6	31.4	31.4	31.4	31.8	32.3
165°	32.6	32.0	32.0	32.0	31.6	31.5	31.1	31.1	31.4	31.5	32.3
165.5°	32.3	31.8	31.7	31.9	31.5	31.3	31.1	30.8	31.1	31.3	32.1
166°	32.1	31.5	31.5	31.6	31.3	31.2	30.6	30.6	30.7	31.2	31.4
166.5°	31.8	31.3	31.3	31.4	31.3	31.2	30.4	30.4	30.5	30.7	31.2
167°	31.7	31.1	31.0	31.2	30.9	30.9	30.2	30.2	30.2	30.5	31.1
167.5°	31.5	30.8	30.6	30.8	30.5	30.4	29.9	30.2	30.1	30.4	30.6
168°	31.1	30.5	30.2	30.3	30.0	29.9	29.4	29.5	29.9	30.2	30.4
168.5°	30.8	30.1	29.8	29.9	29.3	29.3	29.0	29.2	29.4	29.7	30.1
169°	30.3	29.7	29.3	29.4	29.1	29.1	28.9	29.1	29.2	29.5	29.6
169.5°	30.0	29.4	29.1	29.1	28.8	28.9	29.0	29.1	29.3	29.5	29.6
170°	29.9	29.4	29.1	29.2	28.8	28.9	29.0	29.1	29.3	29.5	29.6
170.5°	29.9	29.4	29.1	29.1	28.9	28.9	29.0	29.2	29.4	29.5	29.6
171°	30.3	30.2	30.6	30.5	29.5	29.3	29.4	29.6	29.7	29.7	29.7
171.5°	31.9	32.0	32.4	32.3	31.3	30.7	30.8	31.0	30.9	30.8	30.3
172°	33.6	33.8	33.9	33.8	33.1	32.6	32.8	33.1	32.8	32.5	31.9
172.5°	34.8	34.9	34.9	34.8	34.8	34.5	34.8	35.0	34.7	34.3	33.6
173°	35.7	35.7	35.7	35.7	36.0	35.6	36.1	36.3	35.9	35.5	35.1
173.5°	36.7	36.2	36.0	36.0	36.7	36.4	36.8	37.1	36.8	36.4	36.0
174°	37.1	37.1	36.5	36.3	37.3	37.0	37.3	37.5	37.5	37.2	36.8
174.5°	37.1	37.1	37.0	37.0	37.7	37.4	37.5	37.5	37.5	37.2	37.1
175°	37.1	37.1	37.2	37.1	37.7	37.7	37.5	37.5	37.4	37.2	37.0
175.5°	37.1	37.1	37.2	37.1	37.9	37.9	37.5	37.5	37.4	37.2	37.0
176°	37.2	37.1	37.2	37.1	38.0	37.8	37.5	37.5	37.4	37.2	37.0
176.5°	37.2	37.1	37.2	37.1	38.0	37.9	37.5	37.5	37.4	37.2	37.0
177°	37.2	37.1	37.2	37.1	38.1	37.9	37.5	37.5	37.4	37.2	37.0
177.5°	37.2	37.1	37.2	37.1	38.1	37.9	37.5	37.5	37.4	37.2	37.0
178°	37.2	37.1	37.2	37.1	38.2	37.9	37.5	37.5	37.4	37.2	37.0
178.5°	37.2	37.1	37.2	37.1	38.3	37.9	37.5	37.5	37.4	37.2	37.0
179°	37.2	37.1	37.2	37.1	38.3	37.9	37.5	37.5	37.4	37.2	37.0
179.5°	37.2	37.1	37.2	37.2	38.3	37.9	37.5	37.5	37.4	37.2	37.0



TEST NUMBER: P601029
CATALOG NUMBER: FM159S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1



TEST NUMBER: P601029
 CATALOG NUMBER: FM159S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	390.0	390.0	390.0	390.0	390.0	390.0
0.5°	390.0	390.0	390.1	389.0	390.2	390.0
1°	390.0	390.0	389.7	388.8	390.3	390.3
1.5°	389.2	390.0	389.7	388.9	390.3	391.0
2°	388.4	390.0	389.7	389.3	390.3	391.8
2.5°	387.9	390.0	389.7	389.5	390.3	392.0
3°	388.0	390.1	389.7	389.5	390.3	391.6
3.5°	388.2	390.1	389.6	388.5	390.3	391.1
4°	388.9	389.4	389.3	388.3	390.8	390.8
4.5°	388.9	388.9	388.9	388.3	390.9	390.6
5°	388.4	388.7	388.7	388.2	390.9	390.6
5.5°	387.2	388.6	388.7	388.2	390.6	390.4
6°	386.3	388.6	388.8	387.7	390.0	389.8
6.5°	386.1	388.6	388.8	387.3	389.1	389.7
7°	386.1	388.7	387.7	387.3	388.9	389.5
7.5°	386.1	387.7	387.2	387.3	388.9	389.5
8°	385.4	386.8	387.2	387.3	389.1	389.4
8.5°	384.6	386.5	387.2	386.4	389.2	389.0
9°	384.1	386.2	387.2	385.4	388.1	388.3
9.5°	383.3	385.8	386.3	385.2	386.9	387.6
10°	382.6	385.5	385.4	385.2	386.4	387.4
10.5°	382.6	385.0	384.6	385.2	386.4	387.4
11°	382.0	383.7	384.3	385.0	386.4	387.4
11.5°	381.4	382.5	383.8	384.4	386.4	386.6
12°	380.1	382.0	382.9	383.7	385.8	385.5
12.5°	379.1	382.0	382.5	382.4	384.8	384.5
13°	378.4	382.0	382.2	381.1	384.3	383.7
13.5°	378.0	380.7	381.0	380.4	384.1	383.6
14°	377.3	379.5	379.5	380.3	383.1	383.6
14.5°	377.3	378.9	378.7	380.3	381.7	383.3
15°	376.7	378.6	378.5	380.4	381.1	382.0
15.5°	375.3	377.8	378.3	379.9	380.7	380.3
16°	373.8	376.2	378.1	377.1	380.3	378.8
16.5°	372.7	375.3	377.5	375.5	379.9	378.3
17°	372.5	374.8	375.5	374.9	378.7	378.3
17.5°	371.9	374.5	373.6	374.5	377.1	378.3
18°	371.2	373.6	373.0	374.4	376.0	377.8
18.5°	370.1	371.5	373.0	374.1	375.1	376.0
19°	368.8	369.7	372.9	372.7	374.2	374.6
19.5°	367.0	368.7	371.6	371.1	372.8	373.7
20°	365.6	368.3	369.0	370.0	371.9	372.9
20.5°	364.7	367.6	367.1	369.3	371.1	371.8
21°	364.5	366.0	366.9	368.0	370.1	370.2
21.5°	363.8	363.9	366.8	366.0	368.9	368.9
22°	362.4	363.1	366.2	364.8	367.6	368.2



TEST NUMBER: P601029
 CATALOG NUMBER: FM159S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	360.3	362.4	364.4	364.2	367.0	367.2
23°	358.8	361.3	362.1	363.4	366.4	366.2
23.5°	358.5	359.9	360.7	361.9	365.0	365.2
24°	357.2	358.0	359.3	360.9	362.8	363.7
24.5°	355.1	356.9	358.3	359.9	361.3	362.4
25°	352.9	355.5	357.7	358.6	360.6	361.6
25.5°	351.1	353.8	356.3	357.1	359.4	360.5
26°	350.3	352.5	354.4	355.4	357.6	358.4
26.5°	349.9	352.0	353.1	353.7	356.3	356.2
27°	348.6	351.4	352.2	352.4	355.5	354.9
27.5°	346.6	349.9	351.1	351.2	354.2	354.3
28°	344.4	347.4	348.8	349.9	352.1	353.5
28.5°	342.7	345.2	346.7	348.7	350.2	352.3
29°	341.8	344.0	345.4	347.2	349.1	350.5
29.5°	340.6	343.0	344.5	345.5	347.9	348.7
30°	339.2	341.8	343.5	344.0	346.7	347.0
30.5°	337.1	339.7	341.9	342.7	344.9	345.7
31°	335.1	337.6	339.6	341.1	343.4	344.0
31.5°	333.2	335.7	337.1	338.9	342.2	341.8
32°	331.5	333.9	335.2	336.8	341.0	339.2
32.5°	329.4	332.6	334.1	335.2	339.1	337.4
33°	327.4	331.1	332.5	333.9	336.6	336.3
33.5°	326.0	329.0	330.5	332.3	334.5	335.6
34°	324.6	326.4	328.7	330.5	332.7	334.4
34.5°	322.7	324.6	327.0	328.4	331.2	332.1
35°	320.4	323.2	325.4	326.6	329.3	329.6
35.5°	318.4	321.6	323.7	325.6	327.6	327.5
36°	317.1	319.8	322.1	324.4	326.1	325.5
36.5°	315.8	317.8	320.1	322.6	323.9	323.7
37°	314.2	315.6	317.8	320.0	321.3	322.0
37.5°	312.0	313.6	315.6	317.7	319.6	320.4
38°	309.0	311.7	313.6	316.0	318.0	318.9
38.5°	306.1	309.5	311.8	314.4	316.4	317.2
39°	304.6	307.2	310.2	312.2	314.8	315.0
39.5°	303.7	305.0	308.1	309.8	312.8	312.4
40°	301.7	302.9	306.2	307.4	310.3	310.2
40.5°	298.8	301.4	303.8	305.5	307.8	308.5
41°	295.7	299.4	301.3	304.0	305.7	306.7
41.5°	293.5	296.9	299.2	302.0	304.0	304.3
42°	292.0	294.2	297.6	300.1	302.2	301.9
42.5°	290.0	292.1	295.9	298.1	299.8	299.7
43°	287.8	290.3	293.1	296.0	297.6	298.2
43.5°	285.6	288.2	290.3	293.5	295.7	296.6
44°	283.3	285.5	288.1	291.1	293.4	293.6
44.5°	281.1	283.3	286.1	288.4	291.2	290.3



TEST NUMBER: P601029
 CATALOG NUMBER: FM159S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	278.5	281.3	284.2	286.3	289.4	288.4
45.5°	276.1	279.3	282.5	284.1	287.2	286.8
46°	274.0	277.4	279.8	281.9	284.6	285.2
46.5°	272.0	275.0	277.5	279.7	282.1	283.3
47°	269.7	272.2	275.3	278.0	280.0	280.6
47.5°	267.3	269.7	273.3	276.2	278.3	278.0
48°	264.8	267.6	270.9	274.2	276.2	275.4
48.5°	262.3	265.7	268.7	271.0	273.4	272.8
49°	260.0	263.4	266.4	267.8	270.9	270.5
49.5°	258.0	260.4	264.3	265.5	268.8	268.6
50°	255.7	257.5	261.3	263.7	266.8	266.7
50.5°	252.9	255.4	258.7	262.0	264.4	264.6
51°	250.7	253.7	256.5	260.1	261.7	261.7
51.5°	248.6	251.5	254.0	257.2	259.1	259.4
52°	246.1	248.5	251.6	253.9	256.7	256.5
52.5°	243.6	245.6	249.2	251.3	254.2	253.7
53°	241.3	243.3	246.9	249.3	251.6	251.4
53.5°	239.0	241.3	244.4	247.4	249.0	249.4
54°	236.2	239.1	242.2	245.6	246.4	247.4
54.5°	233.7	237.2	239.7	243.0	244.1	245.0
55°	231.8	234.7	237.5	240.6	242.3	242.5
55.5°	229.5	231.5	234.7	237.9	240.0	240.0
56°	227.1	228.8	232.2	235.5	237.5	237.8
56.5°	224.6	226.6	229.9	233.0	234.7	234.9
57°	221.7	224.5	228.1	230.6	232.1	232.1
57.5°	219.1	221.8	225.9	227.9	230.1	230.1
58°	216.8	219.2	223.0	225.3	228.2	228.1
58.5°	214.7	216.5	220.6	222.9	225.8	225.7
59°	212.3	214.2	218.3	220.4	223.0	222.8
59.5°	209.5	212.2	215.9	218.1	220.4	220.2
60°	206.4	210.2	213.3	215.7	217.8	217.3
60.5°	203.9	207.4	210.6	213.4	215.4	214.5
61°	201.8	204.5	208.3	211.1	212.8	212.2
61.5°	200.1	201.8	206.0	208.4	210.4	209.9
62°	197.9	199.5	203.5	205.8	208.1	207.6
62.5°	194.8	197.1	200.8	203.2	205.8	205.1
63°	191.6	194.7	198.2	200.9	203.3	202.4
63.5°	188.9	192.2	195.8	198.5	200.7	199.7
64°	187.1	189.8	193.3	195.9	198.2	197.3
64.5°	185.4	187.7	190.8	193.4	195.6	195.0
65°	183.0	185.1	188.4	191.2	192.8	192.7
65.5°	180.2	182.6	186.2	188.7	189.8	190.1
66°	177.1	179.8	183.9	186.3	187.4	187.7
66.5°	174.7	177.4	181.4	183.8	185.2	185.1
67°	172.8	175.0	178.8	181.2	182.9	182.5



TEST NUMBER: P601029
 CATALOG NUMBER: FM159S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	170.6	172.8	176.4	178.6	180.3	179.8
68°	168.4	170.4	174.0	176.1	178.0	177.3
68.5°	165.5	167.8	171.4	173.9	175.8	175.2
69°	163.0	165.3	169.0	171.5	173.3	172.9
69.5°	160.6	162.9	166.6	169.2	170.6	170.6
70°	158.4	160.8	164.3	166.5	168.2	167.8
70.5°	156.2	158.5	161.8	164.5	165.7	165.3
71°	154.1	156.1	159.5	162.1	163.2	163.0
71.5°	151.7	153.6	157.1	159.8	160.8	160.6
72°	149.3	151.4	154.7	157.5	158.4	158.2
72.5°	146.6	149.1	152.4	155.2	156.2	156.0
73°	144.2	146.9	150.0	152.7	154.1	153.3
73.5°	142.0	144.6	147.7	150.4	151.9	151.1
74°	140.0	142.3	145.4	147.6	149.4	148.5
74.5°	137.8	139.9	143.3	145.2	146.7	146.2
75°	135.7	137.6	141.0	143.1	144.1	143.8
75.5°	133.3	135.3	138.7	141.1	141.9	141.6
76°	131.2	133.4	136.2	139.0	139.8	139.4
76.5°	129.1	131.1	134.0	136.5	137.5	137.1
77°	126.8	128.9	132.0	134.1	135.1	134.7
77.5°	124.7	126.6	129.9	131.8	132.9	132.4
78°	122.5	124.3	127.7	129.5	130.7	130.0
78.5°	120.4	122.1	125.5	127.7	128.7	127.9
79°	118.2	120.1	123.3	125.8	126.6	125.8
79.5°	116.0	118.2	121.3	123.4	124.3	123.8
80°	113.9	116.1	119.5	120.9	121.8	121.6
80.5°	112.1	113.9	117.3	118.9	119.6	119.7
81°	110.1	111.7	115.0	116.9	117.7	117.3
81.5°	108.2	109.8	112.6	114.9	115.9	115.2
82°	106.2	108.0	111.0	112.6	113.8	112.9
82.5°	104.1	106.2	109.2	110.5	111.3	110.9
83°	102.1	104.1	107.1	108.6	109.2	108.8
83.5°	100.2	102.2	105.2	106.6	107.3	107.1
84°	98.5	100.5	103.1	104.8	105.5	105.1
84.5°	96.8	98.8	101.1	103.0	103.7	103.1
85°	95.1	97.3	99.3	101.0	101.8	101.2
85.5°	93.3	95.3	97.7	98.9	99.7	99.2
86°	91.4	93.3	96.3	97.1	97.8	97.4
86.5°	89.7	91.5	94.3	95.7	96.4	95.7
87°	88.0	89.9	92.3	94.1	94.7	93.9
87.5°	86.5	88.6	90.8	92.4	92.8	92.3
88°	85.0	86.9	89.2	90.7	90.9	90.7
88.5°	83.5	85.1	87.7	88.7	89.1	88.8
89°	81.8	83.4	86.1	87.1	87.7	86.9
89.5°	80.0	82.0	84.2	85.5	86.0	85.4



TEST NUMBER: P601029
 CATALOG NUMBER: FM159S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	78.5	80.7	82.9	84.1	84.5	83.9
90.5°	77.2	79.2	81.2	82.7	82.9	82.4
91°	75.8	77.6	79.8	81.0	81.2	80.8
91.5°	74.3	76.0	78.3	79.3	79.7	79.0
92°	72.9	74.5	76.7	77.8	78.4	77.5
92.5°	71.4	73.2	75.2	76.6	76.7	76.1
93°	70.0	72.0	73.9	75.4	75.3	74.9
93.5°	68.6	70.9	72.6	73.9	74.0	73.5
94°	67.3	69.4	71.2	72.3	72.7	72.0
94.5°	66.1	68.1	69.9	70.9	71.2	70.5
95°	65.0	66.8	68.5	69.6	69.8	69.1
95.5°	63.9	65.6	67.4	68.4	68.4	67.9
96°	62.7	64.4	66.4	67.1	67.3	66.7
96.5°	61.5	63.4	65.3	66.0	66.2	65.5
97°	60.3	62.5	63.9	64.8	65.1	64.1
97.5°	59.4	61.2	62.5	63.6	63.8	63.0
98°	58.3	60.2	61.4	62.4	62.6	61.9
98.5°	57.1	59.0	60.5	61.3	61.4	60.9
99°	56.0	57.8	59.5	60.5	60.5	59.7
99.5°	54.9	56.9	58.4	59.2	59.2	58.6
100°	53.9	56.0	57.5	58.3	58.2	57.6
100.5°	53.0	55.1	56.4	57.2	57.2	56.6
101°	52.1	54.2	55.4	56.2	56.4	55.5
101.5°	51.5	53.2	54.6	55.3	55.3	54.6
102°	50.4	52.3	53.6	54.4	54.2	53.7
102.5°	49.5	51.1	52.5	53.4	53.3	52.7
103°	48.6	50.5	51.8	52.4	52.3	51.4
103.5°	48.0	49.7	51.0	51.4	51.5	50.7
104°	47.2	49.0	50.1	50.6	50.7	49.9
104.5°	46.4	48.2	49.3	49.9	49.7	49.3
105°	45.8	47.6	48.5	49.1	49.0	48.5
105.5°	44.7	46.8	47.8	48.2	48.2	47.5
106°	44.1	46.0	47.1	47.5	47.4	46.8
106.5°	43.6	45.2	46.5	46.9	46.7	46.1
107°	42.9	44.5	45.7	46.2	46.0	45.3
107.5°	42.4	43.9	44.8	45.5	45.3	44.6
108°	41.5	43.3	44.2	44.7	44.6	43.8
108.5°	41.3	42.7	43.5	44.0	43.9	43.3
109°	40.5	42.1	43.0	43.3	43.3	42.6
109.5°	40.2	41.6	42.4	42.6	42.6	42.1
110°	39.3	41.0	41.8	42.1	42.1	41.4
110.5°	38.9	40.4	41.2	41.5	41.4	40.8
111°	38.1	39.9	40.5	40.9	40.9	40.2
111.5°	37.8	39.4	40.0	40.4	40.4	39.7
112°	37.3	38.9	39.4	39.9	39.9	39.1



TEST NUMBER: P601029
 CATALOG NUMBER: FM159S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	36.9	38.5	39.0	39.4	39.2	38.7
113°	36.6	38.0	38.6	38.9	38.8	38.3
113.5°	35.8	37.6	38.1	38.5	38.3	37.8
114°	35.6	37.1	37.6	37.9	37.8	37.3
114.5°	35.3	36.7	37.3	37.5	37.5	36.9
115°	34.8	36.3	36.9	37.1	37.0	36.4
115.5°	34.7	36.0	36.5	36.7	36.6	36.1
116°	33.9	35.6	36.1	36.3	36.3	35.8
116.5°	33.7	35.3	35.7	35.9	35.8	35.3
117°	33.4	34.8	35.4	35.5	35.5	34.9
117.5°	33.3	34.6	35.0	35.3	35.0	34.6
118°	32.8	34.3	34.8	34.8	34.7	34.3
118.5°	32.6	34.2	34.5	34.6	34.4	34.1
119°	32.4	33.9	34.2	34.3	34.2	33.7
119.5°	32.2	33.7	33.9	34.0	33.9	33.6
120°	31.9	33.5	33.7	33.8	33.6	33.3
120.5°	31.7	33.3	33.5	33.5	33.5	33.0
121°	31.5	33.1	33.3	33.3	33.3	32.8
121.5°	31.3	32.8	33.0	33.1	33.1	32.6
122°	31.2	32.6	32.9	32.9	32.8	32.4
122.5°	31.2	32.6	32.6	32.6	32.5	32.2
123°	31.2	32.5	32.4	32.4	32.3	32.0
123.5°	31.1	32.4	32.3	32.4	32.1	31.7
124°	31.1	32.1	32.2	32.2	32.1	31.7
124.5°	31.0	32.0	32.1	32.1	31.9	31.5
125°	31.0	31.9	32.0	31.9	31.8	31.4
125.5°	31.0	31.9	31.8	31.7	31.6	31.4
126°	31.0	31.8	31.8	31.7	31.4	31.4
126.5°	31.0	31.8	31.7	31.6	31.4	31.3
127°	31.0	31.8	31.7	31.5	31.3	31.1
127.5°	31.0	31.6	31.6	31.4	31.3	31.1
128°	31.0	31.6	31.6	31.4	31.3	31.1
128.5°	31.0	31.6	31.6	31.4	31.1	31.0
129°	31.1	31.6	31.5	31.3	31.1	31.0
129.5°	31.1	31.6	31.5	31.3	31.2	31.0
130°	31.1	31.6	31.5	31.4	31.1	30.9
130.5°	31.2	31.6	31.5	31.3	31.1	30.9
131°	31.4	31.6	31.5	31.3	31.1	30.9
131.5°	31.5	31.6	31.5	31.3	31.1	30.9
132°	31.6	31.6	31.5	31.3	31.1	30.9
132.5°	31.6	31.6	31.5	31.3	31.1	30.9
133°	31.6	31.6	31.5	31.3	31.1	30.9
133.5°	31.8	31.6	31.5	31.3	31.2	30.9
134°	31.9	31.7	31.5	31.3	31.2	31.0
134.5°	31.9	31.7	31.6	31.4	31.4	30.9



TEST NUMBER: P601029
 CATALOG NUMBER: FM159S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	32.0	31.8	31.6	31.4	31.4	30.9
135.5°	32.1	31.8	31.6	31.4	31.5	31.3
136°	32.3	32.3	31.7	31.5	31.4	31.3
136.5°	32.4	32.5	31.9	31.5	31.4	31.3
137°	32.4	32.6	32.2	31.6	31.6	31.4
137.5°	32.5	32.6	32.3	32.0	31.7	31.7
138°	32.7	32.6	32.4	32.4	32.1	31.8
138.5°	32.9	32.8	32.5	32.4	32.4	31.9
139°	33.1	33.1	32.6	32.4	32.4	32.4
139.5°	33.2	33.5	32.9	32.7	32.4	32.6
140°	33.4	33.6	33.1	32.7	32.6	32.5
140.5°	33.5	33.6	33.4	32.9	32.8	32.7
141°	33.7	33.8	33.5	33.3	33.0	32.7
141.5°	33.9	34.0	33.6	33.4	33.1	32.9
142°	34.1	34.2	33.8	33.5	33.3	33.0
142.5°	34.3	34.6	34.0	33.6	33.6	33.6
143°	34.5	34.7	34.3	33.8	33.6	33.6
143.5°	34.7	34.7	34.3	33.8	33.7	33.7
144°	34.9	34.7	34.5	34.1	33.8	33.7
144.5°	35.0	34.8	34.6	34.6	33.9	33.7
145°	35.0	34.9	34.6	34.6	34.1	33.7
145.5°	34.9	35.1	34.8	34.6	34.4	33.7
146°	34.9	35.1	35.0	34.7	34.6	33.8
146.5°	34.9	35.2	35.0	34.8	34.7	34.3
147°	34.9	35.4	35.1	34.9	34.7	34.3
147.5°	34.9	35.8	35.3	35.1	34.7	34.2
148°	34.9	35.8	35.6	35.3	34.7	34.2
148.5°	34.9	35.8	35.8	35.4	34.7	34.2
149°	34.9	36.0	35.8	35.5	34.7	34.2
149.5°	34.9	36.0	35.7	35.4	34.7	34.2
150°	34.7	35.9	35.7	35.4	34.7	34.2
150.5°	34.7	35.9	35.7	35.4	34.7	34.2
151°	34.7	35.9	35.7	35.4	34.7	34.2
151.5°	34.6	35.9	35.7	35.5	34.7	34.2
152°	34.6	35.9	35.7	35.5	34.7	34.2
152.5°	34.6	35.9	35.7	35.3	34.7	34.2
153°	34.4	36.0	35.7	35.2	34.7	34.2
153.5°	34.4	36.0	35.7	35.3	34.6	34.2
154°	34.4	35.8	35.6	35.3	34.6	34.2
154.5°	34.4	35.8	35.5	35.2	34.6	34.2
155°	34.4	35.8	35.5	35.2	34.6	34.1
155.5°	34.4	35.7	35.5	35.2	34.6	34.1
156°	34.3	35.6	35.5	35.2	34.6	34.2
156.5°	34.3	35.6	35.5	35.3	34.4	34.2
157°	34.3	35.7	35.4	35.3	34.4	34.1



TEST NUMBER: P601029
 CATALOG NUMBER: FM159S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	34.3	35.5	35.4	35.2	34.5	34.1
158°	34.3	35.5	35.5	35.1	34.5	34.1
158.5°	34.2	35.4	35.3	34.9	34.3	34.1
159°	34.1	35.4	35.3	34.9	34.2	33.9
159.5°	33.9	35.4	35.3	34.8	34.2	33.7
160°	33.8	35.4	35.3	34.6	34.1	33.5
160.5°	33.7	35.4	35.0	34.5	33.9	33.6
161°	33.5	35.1	34.8	34.3	33.8	33.4
161.5°	33.5	34.8	34.7	34.1	33.6	33.3
162°	33.4	34.5	34.5	34.0	33.5	33.2
162.5°	33.1	34.5	34.3	33.8	33.3	33.1
163°	32.8	34.4	34.1	33.7	33.3	32.9
163.5°	32.7	34.2	33.9	33.6	33.3	32.9
164°	32.6	34.0	33.8	33.4	33.1	32.9
164.5°	32.5	33.8	33.7	33.1	32.8	32.7
165°	32.3	33.7	33.6	33.0	32.8	32.6
165.5°	32.3	33.5	33.4	32.8	32.6	32.3
166°	31.9	33.3	33.1	32.5	32.4	32.1
166.5°	31.5	33.3	32.8	32.4	32.2	31.8
167°	31.3	33.0	32.4	32.1	32.0	31.7
167.5°	31.1	32.8	32.1	32.0	31.7	31.5
168°	31.0	32.3	31.9	31.6	31.4	31.1
168.5°	30.5	32.0	31.5	31.2	31.1	30.8
169°	30.0	31.4	31.0	30.8	30.7	30.3
169.5°	29.6	30.9	30.5	30.4	30.3	30.0
170°	29.6	30.5	30.3	30.2	30.1	29.9
170.5°	29.6	30.3	30.2	30.1	30.1	29.9
171°	29.7	30.3	30.3	30.1	30.2	30.3
171.5°	30.2	31.2	31.1	30.9	31.6	31.9
172°	31.5	33.1	32.9	32.8	33.4	33.6
172.5°	33.4	34.5	34.4	34.3	34.7	34.8
173°	34.9	35.6	35.4	35.3	35.7	35.7
173.5°	35.9	36.3	36.1	36.1	36.4	36.7
174°	36.7	36.9	37.0	36.9	37.0	37.1
174.5°	37.1	37.0	37.0	36.9	37.2	37.1
175°	37.1	37.0	37.0	36.9	37.3	37.1
175.5°	37.1	37.1	37.0	37.0	37.4	37.1
176°	37.1	37.2	37.0	37.0	37.4	37.2
176.5°	37.1	37.3	37.2	37.2	37.4	37.2
177°	37.1	37.4	37.1	37.2	37.4	37.2
177.5°	37.1	37.5	37.2	37.2	37.4	37.2
178°	37.1	37.5	37.2	37.3	37.4	37.2
178.5°	37.1	37.5	37.4	37.3	37.4	37.2
179°	37.1	37.6	37.5	37.3	37.4	37.2
179.5°	37.1	37.6	37.6	37.3	37.4	37.2



TEST NUMBER: P601029
CATALOG NUMBER: FM159S1EWHR_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	37.1	37.1	37.1	37.1	37.1	37.1

(END OF REPORT)