

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P#

Luminaire Tested: **FLDSQ4C55D010 FEU4C559027 F4LC-SQLWW-LI**

Issue Date: 12/13/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P#  
 Test Lab: INNOVATION CENTER  
 Issue Date: 12/13/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: FAIL-SAFE  
 Catalog Number: FLDSQ4C55D010 FEU4C559027 F4LC-SQLWW-LI  
 Description: 4 INCH 5500 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND F4LC-SQLWW TRIM WITH LI FINISH  
 Light Source: -  
 Ballast/Driver: -

**Summary**

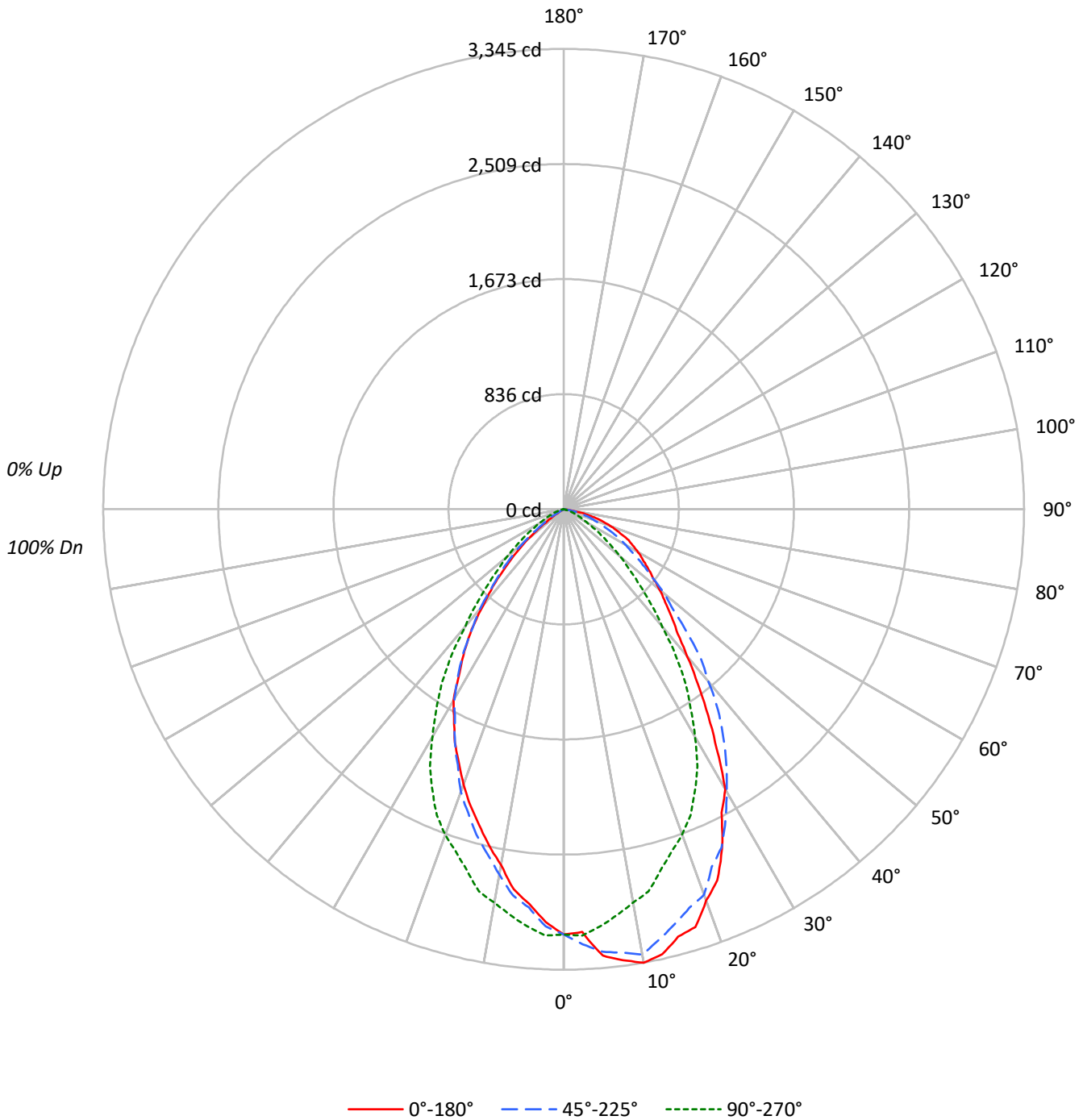
Lumens per Lamp: N/A  
 Luminaire Lumens: 4428.0 lumens  
 Efficiency: N/A  
 Efficacy: 69.3 lumens/watt  
 Spacing Criteria (0/90/45): 1.01 / 1 / 1.06  
 Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
 CIE Type: Direct

Input Watts (W): 63.9  
 Input Voltage (V):  
 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: 25 FT

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	GONIO 1 IN0055	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

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### Luminous Intensity Polar Plot



TEST NUMBER: P#

CATALOG NUMBER: FLDSQ4C55D010 FEU4C559027 F4LC-SQLWW-LI

**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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80				
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72				
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64				
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58				
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	54	53				
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48				
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44				
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41				
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38				

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

	0°	90°	180°
0°	298064	298064	298064
5°	315349	294544	278765
10°	327715	284164	256936
15°	321155	271209	237165
20°	310734	258244	218311
25°	289847	240150	199140
30°	261649	212526	178288
35°	215534	181940	147910
40°	175887	140430	113840
45°	151125	106654	81887
50°	136780	81180	51713
55°	125865	58559	18706
60°	120804	40024	2856
65°	116690	27078	868
70°	104467	18789	1072
75°	85633	9693	0
80°	53565	4112	0
85°	0	0	0

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.4	6.5
10°-20°	779.8	17.6
20°-30°	1041.2	23.5
30°-40°	988.4	22.3
40°-50°	683.2	15.4
50°-60°	377.5	8.5
60°-70°	187.5	4.2
70°-80°	73.9	1.7
80°-90°	7.0	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2110.4	47.7
0°-40°	3098.9	70.0
0°-60°	4159.6	93.9
0°-90°	4428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4428.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3089	3089	3089	3089	3089	
5°	3256	3226	3041	2904	2878	312
15°	3215	3119	2715	2448	2374	909
25°	2722	2711	2256	1870	1870	1241
35°	1830	2022	1545	1270	1256	1146
45°	1108	1270	782	641	600	864
55°	748	704	348	178	111	673
65°	511	370	119	4	4	496
75°	230	141	26	0	0	245
85°	0	4	0	0	0	21
90°	0	0	0	0	0	

TEST NUMBER: P#  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1
2.5°	3074.3	3159.5	3166.9	3159.5	3170.6	3166.9	3185.4	3166.9	3189.2	3155.8	3163.2
5°	3255.8	3222.4	3292.8	3255.8	3255.8	3252.2	3241.0	3237.2	3252.2	3204.0	3226.2
7.5°	3304.0	3352.2	3415.1	3337.4	3341.0	3341.0	3318.8	3311.4	3311.4	3222.4	3248.4
10°	3344.8	3315.0	3348.4	3318.8	3344.8	3341.0	3355.8	3307.6	3341.0	3289.2	3285.4
12.5°	3311.4	3300.2	3344.8	3296.6	3281.8	3285.4	3267.0	3255.8	3267.0	3207.6	3204.0
15°	3215.0	3226.2	3292.8	3241.0	3233.6	3226.2	3204.0	3166.9	3196.6	3115.0	3118.8
17.5°	3181.8	3163.2	3174.4	3129.9	3141.0	3133.6	3129.9	3096.6	3089.1	3037.3	3037.3
20°	3026.2	3066.9	3066.9	3037.3	3037.3	3033.6	2985.5	3015.1	2981.7	2966.9	2981.7
22.5°	2918.7	2922.5	2922.5	2896.5	2900.3	2885.5	2859.5	2840.9	2859.5	2840.9	2811.3
25°	2722.5	2729.9	2774.3	2726.1	2718.7	2733.5	2711.3	2700.2	2696.5	2652.1	2711.3
27.5°	2485.4	2559.4	2555.8	2537.2	2559.4	2529.8	2518.8	2522.4	2533.6	2529.8	2544.6
30°	2348.4	2359.4	2370.6	2355.8	2359.4	2348.4	2348.4	2352.0	2381.6	2370.6	2366.8
32.5°	2070.5	2107.5	2137.3	2137.3	2140.9	2152.1	2148.3	2226.1	2244.6	2207.6	2200.2
35°	1829.8	1855.7	1881.6	1885.3	1933.5	1937.1	1940.9	1963.1	2014.9	2026.1	2022.3
37.5°	1600.2	1626.0	1633.4	1666.8	1692.8	1718.6	1748.4	1778.0	1822.4	1859.4	1840.9
40°	1396.4	1407.5	1426.1	1440.9	1492.7	1492.7	1507.5	1566.8	1615.0	1644.6	1640.8
42.5°	1226.1	1229.7	1244.5	1270.5	1318.7	1307.5	1318.7	1359.4	1429.7	1433.5	1474.2
45°	1107.5	1103.7	1114.9	1118.6	1148.3	1163.1	1170.5	1200.1	1259.3	1266.7	1270.5
47.5°	1000.1	996.4	1014.9	1022.3	1033.4	1048.2	1048.2	1051.9	1074.1	1092.7	1077.9
50°	911.2	911.2	911.2	918.6	937.2	933.4	937.2	952.0	963.0	955.6	952.0
52.5°	814.8	829.6	840.8	844.6	848.2	848.2	852.0	844.6	840.8	829.6	807.4
55°	748.2	763.0	763.0	763.0	763.0	777.8	759.4	763.0	763.0	733.4	703.8
57.5°	681.6	696.4	707.4	692.6	707.4	692.6	685.2	681.6	674.1	644.5	600.1
60°	626.0	633.4	629.7	626.0	633.4	622.3	614.9	600.1	592.7	551.9	522.3
62.5°	563.0	566.7	570.4	563.0	555.6	551.9	537.1	514.9	500.1	466.7	440.7
65°	511.1	500.1	496.3	492.7	485.3	474.1	463.1	437.1	425.9	396.3	370.3
67.5°	433.3	429.7	437.1	425.9	407.5	407.5	396.3	374.1	348.1	329.7	303.7
70°	370.3	366.7	359.3	348.1	344.5	329.7	329.7	303.7	296.3	262.9	240.7
72.5°	303.7	303.7	292.6	281.5	270.4	262.9	259.3	240.7	229.7	211.1	192.6
75°	229.7	229.7	225.9	214.8	207.4	200.0	196.3	181.5	170.4	151.9	140.8
77.5°	163.0	163.0	148.2	140.8	144.4	137.0	129.6	126.0	122.2	111.2	96.4
80°	96.4	92.6	81.6	85.2	81.6	81.6	77.8	74.0	66.6	59.2	51.8
82.5°	26.0	29.6	29.6	29.6	33.4	26.0	26.0	26.0	29.6	29.6	18.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8	3.8
87.5°	3.8	7.4	14.8	14.8	14.8	14.8	14.8	11.2	11.2	11.2	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1
2.5°	3126.2	3122.5	3126.2	3100.2	3159.5	3115.0	3107.6	3100.2	3126.2	3100.2	3063.2
5°	3192.8	3155.8	3144.7	3133.6	3166.9	3115.0	3104.0	3107.6	3089.1	3041.0	3044.7
7.5°	3215.0	3181.8	3148.4	3078.0	3107.6	3096.6	3066.9	3044.7	3015.1	2974.3	2966.9
10°	3222.4	3185.4	3137.3	3115.0	3070.6	3055.8	3044.7	3007.7	2970.7	2900.3	2881.7
12.5°	3200.2	3155.8	3096.6	3078.0	3044.7	2996.5	2970.7	2933.5	2900.3	2844.7	2803.9
15°	3104.0	3066.9	3048.4	2985.5	2970.7	2940.9	2889.1	2837.3	2789.1	2715.0	2692.8
17.5°	2992.9	2978.1	2959.5	2911.3	2907.7	2878.1	2829.9	2785.3	2722.5	2607.6	2570.6
20°	2878.1	2878.1	2818.7	2800.3	2837.3	2777.9	2740.9	2700.2	2570.6	2515.0	2448.4
22.5°	2792.9	2752.1	2718.7	2689.1	2692.8	2655.8	2604.0	2522.4	2474.2	2407.6	2329.8
25°	2626.2	2641.0	2566.9	2555.8	2566.9	2481.6	2455.8	2389.0	2318.7	2255.7	2196.5
27.5°	2522.4	2481.6	2433.6	2392.8	2392.8	2359.4	2285.4	2270.6	2163.1	2103.9	2029.7
30°	2366.8	2337.2	2296.5	2237.2	2229.8	2203.9	2144.7	2107.5	1996.5	1907.5	1866.8
32.5°	2170.5	2159.5	2126.1	2059.5	2037.3	2007.5	1933.5	1870.5	1818.7	1718.6	1670.6
35°	2029.7	1989.1	1918.7	1863.1	1844.6	1792.8	1733.4	1689.0	1633.4	1544.6	1481.6
37.5°	1818.7	1778.0	1711.2	1644.6	1644.6	1592.8	1511.2	1466.8	1389.0	1337.1	1285.3
40°	1633.4	1581.6	1515.0	1437.2	1426.1	1351.9	1318.7	1244.5	1196.3	1114.9	1107.5
42.5°	1426.1	1377.9	1318.7	1259.3	1214.9	1177.9	1092.7	1037.1	985.3	944.6	933.4
45°	1237.1	1174.1	1122.3	1048.2	1003.8	959.4	903.8	866.8	826.0	781.6	755.6
47.5°	1074.1	1022.3	948.2	881.6	837.2	814.8	751.8	711.2	677.8	648.2	629.7
50°	907.6	844.6	803.8	729.6	722.2	670.4	618.6	585.3	566.7	540.8	514.9
52.5°	781.6	722.2	666.7	611.2	581.5	563.0	514.9	481.5	455.7	437.1	422.3
55°	659.3	607.5	563.0	507.5	488.9	463.1	407.5	400.1	374.1	348.1	329.7
57.5°	566.7	518.5	466.7	429.7	396.3	377.9	333.3	303.7	288.9	266.7	248.1
60°	481.5	429.7	388.9	344.5	329.7	303.7	270.4	244.5	225.9	207.4	188.9
62.5°	403.7	359.3	314.9	277.8	255.5	240.7	214.8	192.6	174.1	159.3	144.4
65°	333.3	292.6	255.5	218.5	207.4	188.9	170.4	151.9	137.0	118.6	103.8
67.5°	274.1	237.1	200.0	174.1	163.0	155.6	133.4	114.8	103.8	92.6	77.8
70°	214.8	188.9	159.3	137.0	126.0	114.8	100.0	89.0	74.0	66.6	55.6
72.5°	166.7	144.4	118.6	100.0	92.6	85.2	70.4	59.2	51.8	44.4	37.0
75°	118.6	100.0	85.2	66.6	63.0	59.2	48.2	40.8	33.4	26.0	22.2
77.5°	81.6	66.6	51.8	44.4	40.8	33.4	29.6	22.2	18.6	14.8	11.2
80°	44.4	33.4	26.0	22.2	18.6	14.8	14.8	11.2	7.4	7.4	3.8
82.5°	14.8	11.2	7.4	3.8	3.8	3.8	3.8	3.8	3.8	0.0	3.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1
2.5°	3085.4	3044.7	3055.8	3055.8	3048.4	3048.4	3041.0	3029.9	3033.6	3011.3	2963.3
5°	3052.1	3000.3	2992.9	3000.3	2970.7	2963.3	2948.5	2970.7	2903.9	2929.9	2900.3
7.5°	2955.9	2907.7	2896.5	2922.5	2885.5	2863.1	2859.5	2889.1	2829.9	2800.3	2766.9
10°	2848.3	2829.9	2796.5	2777.9	2766.9	2770.5	2740.9	2703.9	2692.8	2685.4	2655.8
12.5°	2752.1	2711.3	2681.7	2659.5	2652.1	2652.1	2604.0	2596.6	2563.2	2555.8	2511.4
15°	2637.2	2589.2	2570.6	2541.0	2515.0	2529.8	2474.2	2459.4	2448.4	2400.2	2407.6
17.5°	2537.2	2485.4	2441.0	2422.4	2400.2	2378.0	2326.1	2337.2	2311.3	2311.3	2244.6
20°	2407.6	2352.0	2318.7	2281.7	2281.7	2252.0	2215.0	2218.7	2185.3	2152.1	2092.7
22.5°	2270.6	2211.3	2170.5	2155.7	2118.7	2111.3	2066.9	2055.7	2011.3	2014.9	1963.1
25°	2126.1	2066.9	2011.3	2014.9	1981.7	1966.9	1940.9	1889.1	1870.5	1848.3	1833.5
27.5°	1955.7	1914.9	1866.8	1863.1	1800.2	1803.8	1770.6	1755.8	1711.2	1722.4	1689.0
30°	1800.2	1741.0	1696.4	1685.4	1659.4	1652.0	1600.2	1577.8	1585.4	1555.6	1537.2
32.5°	1640.8	1552.0	1533.4	1511.2	1496.4	1477.9	1440.9	1455.7	1422.3	1429.7	1400.1
35°	1429.7	1392.7	1344.5	1344.5	1329.7	1314.9	1289.1	1303.9	1270.5	1255.7	1226.1
37.5°	1251.9	1218.7	1170.5	1185.3	1159.3	1137.1	1114.9	1118.6	1088.9	1085.3	1055.6
40°	1059.3	1040.8	1007.5	1007.5	989.0	989.0	977.8	966.8	948.2	926.0	892.6
42.5°	877.8	863.0	848.2	852.0	826.0	848.2	818.6	837.2	777.8	774.2	751.8
45°	744.4	711.2	714.8	700.0	685.2	692.6	666.7	674.1	640.8	633.4	611.2
47.5°	603.8	592.7	570.4	563.0	563.0	551.9	540.8	537.1	522.3	503.7	474.1
50°	496.3	455.7	448.1	437.1	429.7	429.7	414.9	392.7	396.3	377.9	348.1
52.5°	388.9	355.5	340.7	337.1	322.3	314.9	296.3	281.5	270.4	262.9	244.5
55°	300.0	270.4	251.9	251.9	229.7	229.7	203.7	192.6	177.8	163.0	151.9
57.5°	225.9	211.1	192.6	177.8	170.4	151.9	137.0	118.6	107.4	85.2	70.4
60°	170.4	155.6	137.0	126.0	118.6	100.0	81.6	66.6	40.8	33.4	29.6
62.5°	126.0	111.2	92.6	85.2	77.8	63.0	44.4	22.2	11.2	11.2	11.2
65°	92.6	74.0	59.2	51.8	44.4	33.4	14.8	7.4	3.8	3.8	3.8
67.5°	63.0	48.2	33.4	29.6	22.2	11.2	3.8	3.8	3.8	3.8	3.8
70°	40.8	29.6	14.8	11.2	7.4	3.8	3.8	3.8	3.8	3.8	3.8
72.5°	26.0	14.8	7.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	14.8	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#  
 CATALOG NUMBER: FLDSQ4C55D010 FEU4C559027 F4LC-SQLWW-LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1	3089.1
2.5°	3015.1	2989.1	3003.9	2970.7	2985.5	3011.3	2992.9	3000.3
5°	2911.3	2896.5	2878.1	2829.9	2866.9	2896.5	2881.7	2878.1
7.5°	2800.3	2748.3	2774.3	2759.5	2752.1	2781.7	2748.3	2785.3
10°	2685.4	2648.4	2644.7	2618.8	2618.8	2641.0	2644.7	2622.4
12.5°	2515.0	2496.6	2496.6	2492.8	2489.0	2511.4	2515.0	2504.0
15°	2392.8	2385.4	2366.8	2363.2	2341.0	2374.2	2378.0	2374.2
17.5°	2244.6	2248.3	2229.8	2229.8	2244.6	2255.7	2226.1	2255.7
20°	2144.7	2126.1	2118.7	2085.3	2103.9	2122.5	2122.5	2126.1
22.5°	2000.1	1970.5	1981.7	1963.1	1951.9	1977.9	1977.9	1989.1
25°	1837.2	1837.2	1844.6	1833.5	1840.9	1855.7	1844.6	1870.5
27.5°	1681.6	1696.4	1696.4	1681.6	1689.0	1733.4	1752.0	1722.4
30°	1537.2	1540.8	1552.0	1544.6	1566.8	1581.6	1577.8	1600.2
32.5°	1374.2	1392.7	1400.1	1389.0	1396.4	1429.7	1411.2	1407.5
35°	1248.3	1214.9	1211.3	1214.9	1229.7	1237.1	1229.7	1255.7
37.5°	1066.7	1055.6	1040.8	1044.5	1055.6	1070.5	1077.9	1096.3
40°	892.6	877.8	877.8	874.2	863.0	903.8	903.8	903.8
42.5°	740.8	737.0	718.6	718.6	733.4	744.4	737.0	763.0
45°	607.5	592.7	581.5	581.5	592.7	592.7	603.8	600.1
47.5°	477.9	463.1	466.7	455.7	466.7	481.5	463.1	466.7
50°	359.3	359.3	351.9	359.3	355.5	359.3	351.9	344.5
52.5°	244.5	277.8	281.5	266.7	233.3	203.7	185.2	200.0
55°	140.8	126.0	126.0	122.2	114.8	111.2	100.0	111.2
57.5°	70.4	63.0	63.0	63.0	59.2	55.6	48.2	48.2
60°	29.6	26.0	26.0	22.2	18.6	14.8	11.2	14.8
62.5°	11.2	7.4	7.4	7.4	7.4	7.4	7.4	7.4
65°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
67.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
70°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)