

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 FEU4C559035 F4LC-SQLWW-H**

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 FEU4C559035 F4LC-SQLWW-H
 Description: 4 INCH 5500 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND F4LC-SQLWW TRIM WITH H FINISH
 Light Source: -
 Ballast/Driver: -

Summary

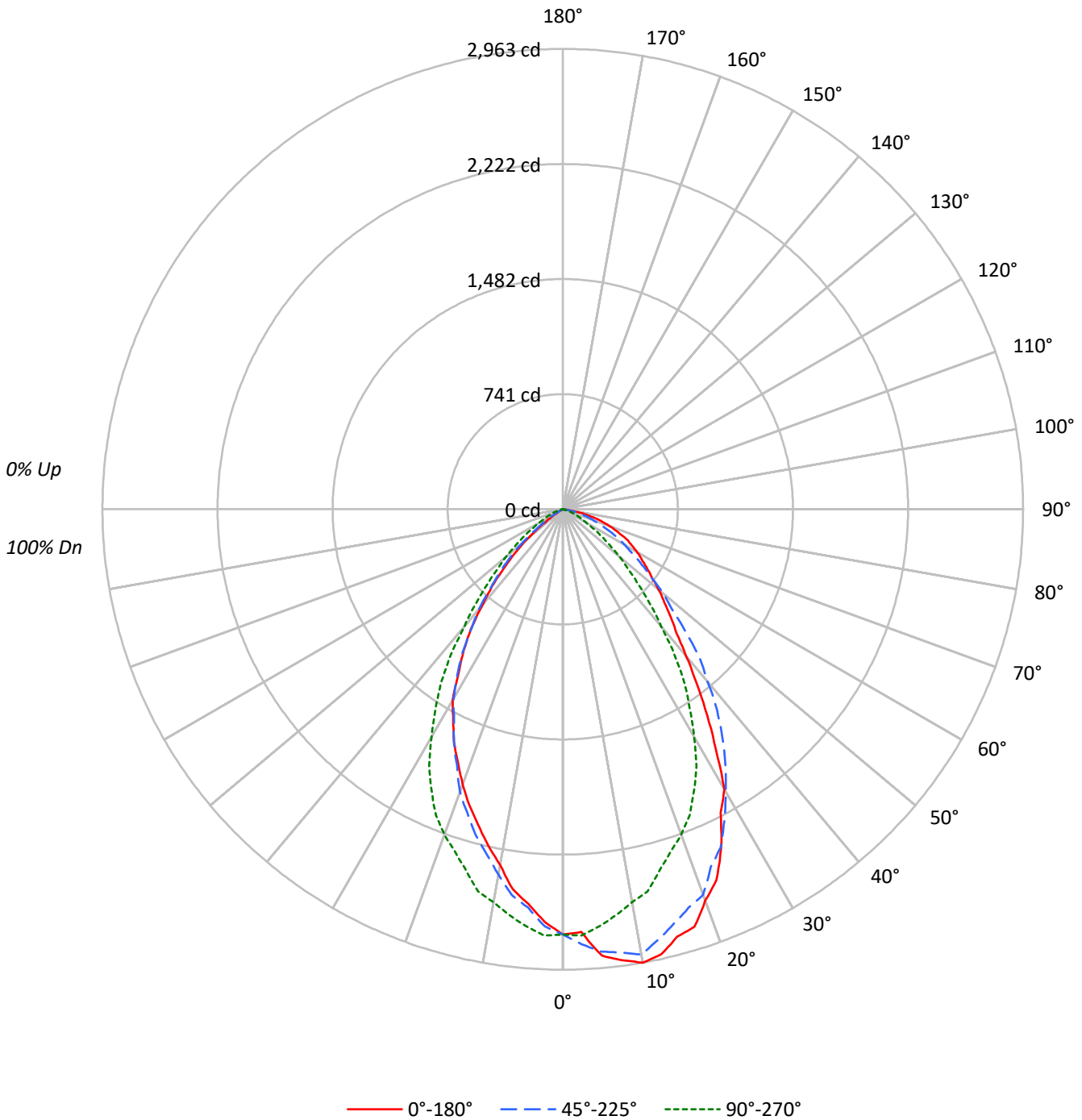
Lumens per Lamp: N/A
 Luminaire Lumens: 3922.0 lumens
 Efficiency: N/A
 Efficacy: 61.4 lumens/watt
 Spacing Criteria (0/90/45): 1.01 / 1 / 1.06
 Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
 CIE Type: Direct

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 FEU4C559035 F4LC-SQLWW-H

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°	264003	264003	264003
5°	279318	260886	246909
10°	290268	251694	227572
15°	284454	240212	210064
20°	275227	228733	193359
25°	256727	212704	176389
30°	231745	188248	157910
35°	190904	161150	131007
40°	155797	124383	100829
45°	133863	94468	72526
50°	121154	71903	45799
55°	111482	51880	16570
60°	107006	35450	2528
65°	103357	23973	753
70°	92534	16645	931
75°	75866	8575	0
80°	47398	3667	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.4	6.5
10°-20°	690.7	17.6
20°-30°	922.3	23.5
30°-40°	875.5	22.3
40°-50°	605.2	15.4
50°-60°	334.4	8.5
60°-70°	166.0	4.2
70°-80°	65.4	1.7
80°-90°	6.2	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°	1869.3	47.7
0°-40°	2744.8	70.0
0°-60°	3684.3	93.9
0°-90°	3922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3922.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2736	2736	2736	2736	2736	
5°	2884	2858	2694	2572	2549	276
15°	2848	2762	2405	2169	2103	806
25°	2411	2402	1998	1657	1657	1099
35°	1621	1791	1368	1125	1112	1015
45°	981	1125	692	568	532	765
55°	663	623	308	158	98	596
65°	453	328	105	3	3	439
75°	204	125	23	0	0	217
85°	0	3	0	0	0	19
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1
2.5°	2723.0	2798.4	2805.0	2798.4	2808.3	2805.0	2821.4	2805.0	2824.8	2795.2	2801.8
5°	2883.8	2854.2	2916.5	2883.8	2883.8	2880.5	2870.7	2867.3	2880.5	2837.9	2857.5
7.5°	2926.4	2969.1	3024.9	2956.0	2959.2	2959.2	2939.5	2933.0	2933.0	2854.2	2877.2
10°	2962.6	2936.2	2965.8	2939.5	2962.6	2959.2	2972.3	2929.6	2959.2	2913.3	2910.0
12.5°	2933.0	2923.1	2962.6	2919.9	2906.8	2910.0	2893.7	2883.8	2893.7	2841.1	2837.9
15°	2847.6	2857.5	2916.5	2870.7	2864.1	2857.5	2837.9	2805.0	2831.3	2759.1	2762.4
17.5°	2818.2	2801.8	2811.7	2772.2	2782.1	2775.5	2772.2	2742.8	2736.1	2690.2	2690.2
20°	2680.4	2716.4	2716.4	2690.2	2690.2	2687.0	2644.3	2670.5	2641.0	2627.9	2641.0
22.5°	2585.2	2588.5	2588.5	2565.5	2568.9	2555.7	2532.7	2516.3	2532.7	2516.3	2490.1
25°	2411.4	2418.0	2457.3	2414.6	2408.1	2421.2	2401.5	2391.6	2388.4	2349.1	2401.5
27.5°	2201.4	2266.9	2263.7	2247.3	2266.9	2240.7	2230.9	2234.2	2244.1	2240.7	2253.8
30°	2080.0	2089.8	2099.7	2086.6	2089.8	2080.0	2080.0	2083.3	2109.5	2099.7	2096.4
32.5°	1833.9	1866.7	1893.0	1893.0	1896.2	1906.1	1902.8	1971.7	1988.1	1955.4	1948.8
35°	1620.7	1643.7	1666.6	1669.9	1712.6	1715.8	1719.1	1738.8	1784.7	1794.6	1791.2
37.5°	1417.3	1440.2	1446.8	1476.3	1499.3	1522.2	1548.6	1574.8	1614.1	1646.9	1630.6
40°	1236.9	1246.6	1263.1	1276.2	1322.1	1322.1	1335.2	1387.8	1430.4	1456.7	1453.3
42.5°	1086.0	1089.2	1102.3	1125.3	1168.0	1158.1	1168.0	1204.1	1266.3	1269.6	1305.8
45°	981.0	977.6	987.5	990.7	1017.1	1030.2	1036.7	1063.0	1115.4	1122.0	1125.3
47.5°	885.8	882.5	899.0	905.5	915.3	928.4	928.4	931.7	951.4	967.9	954.7
50°	807.1	807.1	807.1	813.6	830.1	826.7	830.1	843.2	852.9	846.4	843.2
52.5°	721.7	734.8	744.7	748.1	751.3	751.3	754.6	748.1	744.7	734.8	715.2
55°	662.7	675.8	675.8	675.8	675.8	688.9	672.6	675.8	675.8	649.6	623.4
57.5°	603.7	616.8	626.6	613.5	626.6	613.5	606.9	603.7	597.0	570.8	531.5
60°	554.5	561.0	557.7	554.5	561.0	551.1	544.6	531.5	524.9	488.8	462.6
62.5°	498.7	501.9	505.3	498.7	492.2	488.8	475.7	456.0	442.9	413.4	390.4
65°	452.7	442.9	439.6	436.4	429.8	419.9	410.1	387.1	377.2	351.0	328.0
67.5°	383.8	380.6	387.1	377.2	360.9	360.9	351.0	331.4	308.4	292.0	269.0
70°	328.0	324.8	318.2	308.4	305.1	292.0	292.0	269.0	262.5	232.9	213.2
72.5°	269.0	269.0	259.1	249.4	239.5	232.9	229.7	213.2	203.5	187.0	170.6
75°	203.5	203.5	200.1	190.2	183.7	177.1	173.9	160.8	150.9	134.6	124.7
77.5°	144.3	144.3	131.2	124.7	127.9	121.3	114.8	111.6	108.2	98.5	85.3
80°	85.3	82.0	72.2	75.4	72.2	72.2	68.9	65.6	59.0	52.4	45.9
82.5°	23.0	26.2	26.2	26.2	29.6	23.0	23.0	23.0	26.2	26.2	16.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3
87.5°	3.3	6.6	13.1	13.1	13.1	13.1	13.1	9.9	9.9	9.9	6.6
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°	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1
2.5°	2769.0	2765.6	2769.0	2746.0	2798.4	2759.1	2752.5	2746.0	2769.0	2746.0	2713.2
5°	2828.0	2795.2	2785.3	2775.5	2805.0	2759.1	2749.3	2752.5	2736.1	2693.5	2696.7
7.5°	2847.6	2818.2	2788.6	2726.3	2752.5	2742.8	2716.4	2696.7	2670.5	2634.4	2627.9
10°	2854.2	2821.4	2778.7	2759.1	2719.8	2706.6	2696.7	2664.0	2631.2	2568.9	2552.4
12.5°	2834.5	2795.2	2742.8	2726.3	2696.7	2654.1	2631.2	2598.3	2568.9	2519.6	2483.5
15°	2749.3	2716.4	2700.1	2644.3	2631.2	2604.8	2559.0	2513.1	2470.4	2404.7	2385.1
17.5°	2650.9	2637.7	2621.3	2578.6	2575.4	2549.2	2506.5	2467.1	2411.4	2309.6	2276.8
20°	2549.2	2549.2	2496.6	2480.3	2513.1	2460.5	2427.7	2391.6	2276.8	2227.6	2168.6
22.5°	2473.7	2437.6	2408.1	2381.8	2385.1	2352.3	2306.4	2234.2	2191.5	2132.5	2063.6
25°	2326.1	2339.2	2273.6	2263.7	2273.6	2198.0	2175.2	2116.0	2053.7	1997.9	1945.5
27.5°	2234.2	2198.0	2155.5	2119.4	2119.4	2089.8	2024.3	2011.2	1915.9	1863.5	1797.8
30°	2096.4	2070.1	2034.0	1981.6	1975.0	1952.0	1899.6	1866.7	1768.4	1689.6	1653.4
32.5°	1922.5	1912.7	1883.1	1824.1	1804.5	1778.1	1712.6	1656.8	1610.9	1522.2	1479.7
35°	1797.8	1761.8	1699.5	1650.2	1633.8	1587.9	1535.3	1496.0	1446.8	1368.1	1312.3
37.5°	1610.9	1574.8	1515.7	1456.7	1456.7	1410.8	1338.5	1299.2	1230.3	1184.3	1138.4
40°	1446.8	1400.9	1341.9	1273.0	1263.1	1197.4	1168.0	1102.3	1059.6	987.5	981.0
42.5°	1263.1	1220.4	1168.0	1115.4	1076.1	1043.3	967.9	918.6	872.7	836.6	826.7
45°	1095.7	1040.0	994.1	928.4	889.1	849.7	800.5	767.7	731.6	692.3	669.3
47.5°	951.4	905.5	839.8	780.8	741.5	721.7	665.9	629.9	600.4	574.2	557.7
50°	803.8	748.1	711.9	646.3	639.7	593.8	547.9	518.4	501.9	479.0	456.0
52.5°	692.3	639.7	590.5	541.4	515.0	498.7	456.0	426.5	403.6	387.1	374.0
55°	583.9	538.0	498.7	449.5	433.0	410.1	360.9	354.4	331.4	308.4	292.0
57.5°	501.9	459.2	413.4	380.6	351.0	334.7	295.2	269.0	255.9	236.2	219.8
60°	426.5	380.6	344.5	305.1	292.0	269.0	239.5	216.6	200.1	183.7	167.3
62.5°	357.6	318.2	278.9	246.0	226.3	213.2	190.2	170.6	154.2	141.1	127.9
65°	295.2	259.1	226.3	193.6	183.7	167.3	150.9	134.6	121.3	105.0	91.9
67.5°	242.8	210.0	177.1	154.2	144.3	137.8	118.1	101.7	91.9	82.0	68.9
70°	190.2	167.3	141.1	121.3	111.6	101.7	88.6	78.8	65.6	59.0	49.2
72.5°	147.7	127.9	105.0	88.6	82.0	75.4	62.3	52.4	45.9	39.3	32.8
75°	105.0	88.6	75.4	59.0	55.8	52.4	42.7	36.1	29.6	23.0	19.7
77.5°	72.2	59.0	45.9	39.3	36.1	29.6	26.2	19.7	16.5	13.1	9.9
80°	39.3	29.6	23.0	19.7	16.5	13.1	13.1	9.9	6.6	6.6	3.3
82.5°	13.1	9.9	6.6	3.3	3.3	3.3	3.3	3.3	3.3	0.0	3.3
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°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	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°	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1
2.5°	2732.9	2696.7	2706.6	2706.6	2700.1	2700.1	2693.5	2683.6	2687.0	2667.2	2624.6
5°	2703.3	2657.4	2650.9	2657.4	2631.2	2624.6	2611.5	2631.2	2572.1	2595.1	2568.9
7.5°	2618.1	2575.4	2565.5	2588.5	2555.7	2536.0	2532.7	2559.0	2506.5	2480.3	2450.7
10°	2522.8	2506.5	2477.0	2460.5	2450.7	2453.9	2427.7	2395.0	2385.1	2378.5	2352.3
12.5°	2437.6	2401.5	2375.3	2355.6	2349.1	2349.1	2306.4	2299.8	2270.3	2263.7	2224.4
15°	2335.8	2293.3	2276.8	2250.6	2227.6	2240.7	2191.5	2178.4	2168.6	2125.9	2132.5
17.5°	2247.3	2201.4	2162.0	2145.6	2125.9	2106.3	2060.3	2070.1	2047.1	2047.1	1988.1
20°	2132.5	2083.3	2053.7	2020.9	2020.9	1994.7	1961.9	1965.1	1935.6	1906.1	1853.6
22.5°	2011.2	1958.6	1922.5	1909.4	1876.6	1870.0	1830.7	1820.8	1781.5	1784.7	1738.8
25°	1883.1	1830.7	1781.5	1784.7	1755.2	1742.1	1719.1	1673.2	1656.8	1637.1	1624.0
27.5°	1732.2	1696.1	1653.4	1650.2	1594.4	1597.7	1568.2	1555.1	1515.7	1525.6	1496.0
30°	1594.4	1542.0	1502.5	1492.8	1469.8	1463.2	1417.3	1397.5	1404.2	1377.9	1361.5
32.5°	1453.3	1374.7	1358.2	1338.5	1325.4	1309.0	1276.2	1289.3	1259.7	1266.3	1240.1
35°	1266.3	1233.5	1190.9	1190.9	1177.7	1164.6	1141.8	1154.9	1125.3	1112.2	1086.0
37.5°	1108.9	1079.4	1036.7	1049.9	1026.8	1007.2	987.5	990.7	964.5	961.3	934.9
40°	938.3	921.8	892.4	892.4	876.0	876.0	866.1	856.3	839.8	820.2	790.6
42.5°	777.5	764.4	751.3	754.6	731.6	751.3	725.1	741.5	688.9	685.7	665.9
45°	659.4	629.9	633.2	620.0	606.9	613.5	590.5	597.0	567.6	561.0	541.4
47.5°	534.8	524.9	505.3	498.7	498.7	488.8	479.0	475.7	462.6	446.1	419.9
50°	439.6	403.6	396.9	387.1	380.6	380.6	367.5	347.8	351.0	334.7	308.4
52.5°	344.5	314.9	301.8	298.6	285.5	278.9	262.5	249.4	239.5	232.9	216.6
55°	265.7	239.5	223.1	223.1	203.5	203.5	180.5	170.6	157.5	144.3	134.6
57.5°	200.1	187.0	170.6	157.5	150.9	134.6	121.3	105.0	95.1	75.4	62.3
60°	150.9	137.8	121.3	111.6	105.0	88.6	72.2	59.0	36.1	29.6	26.2
62.5°	111.6	98.5	82.0	75.4	68.9	55.8	39.3	19.7	9.9	9.9	9.9
65°	82.0	65.6	52.4	45.9	39.3	29.6	13.1	6.6	3.3	3.3	3.3
67.5°	55.8	42.7	29.6	26.2	19.7	9.9	3.3	3.3	3.3	3.3	3.3
70°	36.1	26.2	13.1	9.9	6.6	3.3	3.3	3.3	3.3	3.3	3.3
72.5°	23.0	13.1	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	13.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.3	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	3.3	3.3	3.3
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 FEU4C559035 F4LC-SQLWW-H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1	2736.1
2.5°	2670.5	2647.5	2660.6	2631.2	2644.3	2667.2	2650.9	2657.4
5°	2578.6	2565.5	2549.2	2506.5	2539.3	2565.5	2552.4	2549.2
7.5°	2480.3	2434.3	2457.3	2444.2	2437.6	2463.8	2434.3	2467.1
10°	2378.5	2345.7	2342.5	2319.5	2319.5	2339.2	2342.5	2322.7
12.5°	2227.6	2211.3	2211.3	2207.9	2204.6	2224.4	2227.6	2217.8
15°	2119.4	2112.8	2096.4	2093.2	2073.5	2102.9	2106.3	2102.9
17.5°	1988.1	1991.4	1975.0	1975.0	1988.1	1997.9	1971.7	1997.9
20°	1899.6	1883.1	1876.6	1847.0	1863.5	1879.9	1879.9	1883.1
22.5°	1771.6	1745.3	1755.2	1738.8	1728.9	1751.9	1751.9	1761.8
25°	1627.2	1627.2	1633.8	1624.0	1630.6	1643.7	1633.8	1656.8
27.5°	1489.4	1502.5	1502.5	1489.4	1496.0	1535.3	1551.8	1525.6
30°	1361.5	1364.8	1374.7	1368.1	1387.8	1400.9	1397.5	1417.3
32.5°	1217.2	1233.5	1240.1	1230.3	1236.9	1266.3	1250.0	1246.6
35°	1105.6	1076.1	1072.9	1076.1	1089.2	1095.7	1089.2	1112.2
37.5°	944.8	934.9	921.8	925.2	934.9	948.2	954.7	971.1
40°	790.6	777.5	777.5	774.3	764.4	800.5	800.5	800.5
42.5°	656.2	652.8	636.5	636.5	649.6	659.4	652.8	675.8
45°	538.0	524.9	515.0	515.0	524.9	524.9	534.8	531.5
47.5°	423.3	410.1	413.4	403.6	413.4	426.5	410.1	413.4
50°	318.2	318.2	311.7	318.2	314.9	318.2	311.7	305.1
52.5°	216.6	246.0	249.4	236.2	206.7	180.5	164.0	177.1
55°	124.7	111.6	111.6	108.2	101.7	98.5	88.6	98.5
57.5°	62.3	55.8	55.8	55.8	52.4	49.2	42.7	42.7
60°	26.2	23.0	23.0	19.7	16.5	13.1	9.9	13.1
62.5°	9.9	6.6	6.6	6.6	6.6	6.6	6.6	6.6
65°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
67.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
70°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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)