

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 FEU4C559050 F4LC-SQLWW-H**

Issue Date: 12/13/2022

Tested By:

Approved By:



Cooper Lighting Solutions laboratories have been accredited by National Voluntary Laboratory Accreditation Program (NVLAP) that it adheres to the requirements of ISO/IEC 17025:2005 and appropriate IESNA test methods. This report must not be used to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government. Results contained in this report are valid for luminaire sample tested, as supplied by requestor. Information related to the luminaire tested has been supplied by requestor and can affect the validity of the test results. Report shall not be reproduced except in full without approval of Cooper Lighting Solutions Lighting Laboratory. Test performed at address noted above.

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 FEU4C559050 F4LC-SQLWW-H
 Description: 4 INCH 5500 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND F4LC-SQLWW TRIM WITH H FINISH
 Light Source: -
 Ballast/Driver: -

Summary

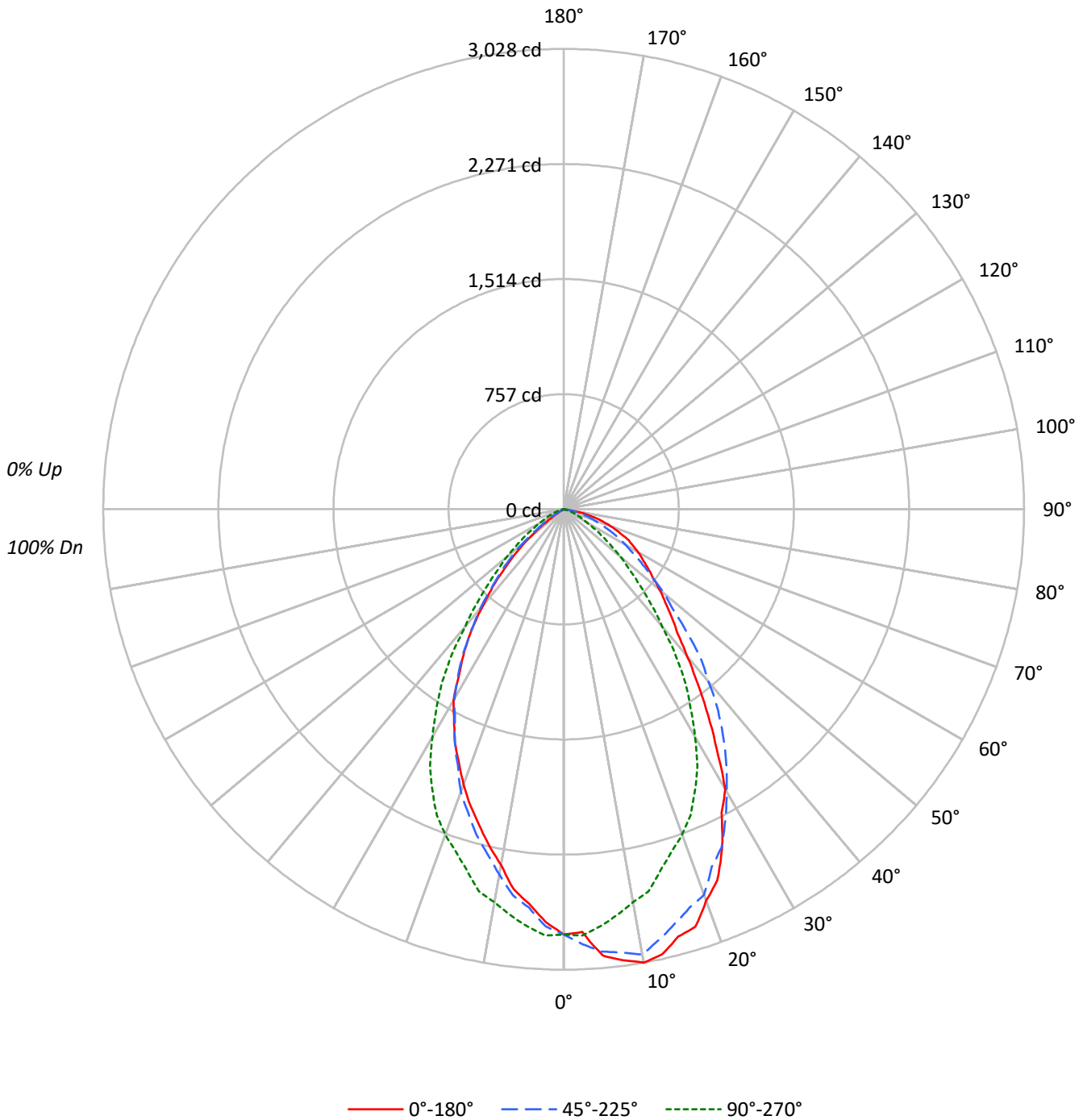
Lumens per Lamp: N/A
 Luminaire Lumens: 4008.0 lumens
 Efficiency: N/A
 Efficacy: 62.7 lumens/watt
 Spacing Criteria (0/90/45): 1.01 / 1 / 1.06
 Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
 CIE Type: Direct

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

TEST NUMBER: P#
CATALOG NUMBER: FLDSQ4C55D010 FEU4C559050 F4LC-SQLWW-H

Luminous Intensity Polar Plot



TEST NUMBER: P#

CATALOG NUMBER: FLDSQ4C55D010 FEU4C559050 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	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°	269793	269793	269793
5°	285439	266610	252323
10°	296627	257210	232559
15°	290698	245476	214669
20°	281265	233744	197600
25°	262359	217367	180254
30°	236837	192370	161375
35°	195086	164684	133881
40°	159210	127116	103046
45°	136797	96543	74109
50°	123811	73479	46804
55°	113921	53007	16923
60°	109341	36222	2586
65°	105617	24498	776
70°	94565	17012	959
75°	77506	8761	0
80°	48453	3723	0
85°	0	0	0

TEST NUMBER: P#
 CATALOG NUMBER: FLDSQ4C55D010 FEU4C559050 F4LC-SQLWW-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.0	6.5
10°-20°	705.8	17.6
20°-30°	942.5	23.5
30°-40°	894.7	22.3
40°-50°	618.4	15.4
50°-60°	341.7	8.5
60°-70°	169.7	4.2
70°-80°	66.8	1.7
80°-90°	6.4	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°	1910.3	47.7
0°-40°	2804.9	70.0
0°-60°	3765.1	93.9
0°-90°	4008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4008.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2796	2796	2796	2796	2796	
5°	2947	2920	2753	2628	2605	282
15°	2910	2823	2457	2216	2149	823
25°	2464	2454	2042	1693	1693	1123
35°	1656	1830	1398	1150	1137	1038
45°	1002	1150	708	580	543	782
55°	677	637	315	161	101	610
65°	463	335	107	3	3	449
75°	208	127	24	0	0	222
85°	0	3	0	0	0	19
90°	0	0	0	0	0	

TEST NUMBER: P#
 CATALOG NUMBER: FLDSQ4C55D010 FEU4C559050 F4LC-SQLWW-H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1
2.5°	2782.7	2859.8	2866.5	2859.8	2869.9	2866.5	2883.3	2866.5	2886.7	2856.5	2863.2
5°	2947.0	2916.8	2980.5	2947.0	2947.0	2943.7	2933.6	2930.2	2943.7	2900.1	2920.2
7.5°	2990.6	3034.2	3091.2	3020.8	3024.1	3024.1	3004.0	2997.3	2997.3	2916.8	2940.3
10°	3027.5	3000.6	3030.8	3004.0	3027.5	3024.1	3037.5	2993.9	3024.1	2977.2	2973.8
12.5°	2997.3	2987.2	3027.5	2983.9	2970.5	2973.8	2957.1	2947.0	2957.1	2903.4	2900.1
15°	2910.1	2920.2	2980.5	2933.6	2926.9	2920.2	2900.1	2866.5	2893.4	2819.6	2823.0
17.5°	2880.0	2863.2	2873.3	2833.0	2843.1	2836.4	2833.0	2802.9	2796.1	2749.2	2749.2
20°	2739.2	2776.0	2776.0	2749.2	2749.2	2745.9	2702.3	2729.1	2698.9	2685.5	2698.9
22.5°	2641.9	2645.3	2645.3	2621.8	2625.2	2611.8	2588.3	2571.5	2588.3	2571.5	2544.7
25°	2464.3	2471.0	2511.2	2467.6	2460.9	2474.3	2454.2	2444.1	2440.8	2400.6	2454.2
27.5°	2249.7	2316.6	2313.4	2296.5	2316.6	2289.8	2279.9	2283.1	2293.3	2289.8	2303.2
30°	2125.7	2135.6	2145.8	2132.4	2135.6	2125.7	2125.7	2128.9	2155.7	2145.8	2142.3
32.5°	1874.1	1907.6	1934.5	1934.5	1937.8	1947.9	1944.5	2014.9	2031.7	1998.2	1991.5
35°	1656.2	1679.7	1703.1	1706.5	1750.1	1753.4	1756.8	1776.9	1823.8	1833.9	1830.5
37.5°	1448.4	1471.8	1478.5	1508.7	1532.2	1555.6	1582.5	1609.3	1649.5	1683.0	1666.3
40°	1264.0	1274.0	1290.8	1304.2	1351.1	1351.1	1364.5	1418.2	1461.8	1488.6	1485.2
42.5°	1109.8	1113.1	1126.5	1150.0	1193.6	1183.5	1193.6	1230.5	1294.1	1297.5	1334.4
45°	1002.5	999.1	1009.2	1012.5	1039.4	1052.8	1059.5	1086.3	1139.9	1146.6	1150.0
47.5°	905.3	901.9	918.7	925.4	935.4	948.7	948.7	952.2	972.3	989.1	975.7
50°	824.8	824.8	824.8	831.5	848.3	844.9	848.3	861.7	871.6	864.9	861.7
52.5°	737.5	750.9	761.0	764.5	767.7	767.7	771.2	764.5	761.0	750.9	730.8
55°	677.2	690.6	690.6	690.6	690.6	704.0	687.4	690.6	690.6	663.8	637.1
57.5°	617.0	630.4	640.3	626.9	640.3	626.9	620.2	617.0	610.1	583.3	543.1
60°	566.6	573.3	569.9	566.6	573.3	563.2	556.5	543.1	536.4	499.5	472.7
62.5°	509.6	512.9	516.3	509.6	502.9	499.5	486.1	466.0	452.6	422.4	398.9
65°	462.6	452.6	449.2	445.9	439.2	429.1	419.1	395.6	385.5	358.7	335.2
67.5°	392.2	388.9	395.6	385.5	368.8	368.8	358.7	338.6	315.1	298.4	274.9
70°	335.2	331.9	325.2	315.1	311.8	298.4	298.4	274.9	268.2	238.0	217.9
72.5°	274.9	274.9	264.8	254.8	244.7	238.0	234.7	217.9	207.9	191.1	174.3
75°	207.9	207.9	204.5	194.4	187.7	181.0	177.7	164.3	154.2	137.5	127.4
77.5°	147.5	147.5	134.1	127.4	130.7	124.0	117.3	114.0	110.6	100.6	87.2
80°	87.2	83.8	73.8	77.1	73.8	73.8	70.4	67.0	60.3	53.6	46.9
82.5°	23.5	26.8	26.8	26.8	30.2	23.5	23.5	23.5	26.8	26.8	16.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4
87.5°	3.4	6.7	13.4	13.4	13.4	13.4	13.4	10.1	10.1	10.1	6.7
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 FEU4C559050 F4LC-SQLWW-H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1
2.5°	2829.7	2826.3	2829.7	2806.2	2859.8	2819.6	2812.9	2806.2	2829.7	2806.2	2772.7
5°	2890.0	2856.5	2846.4	2836.4	2866.5	2819.6	2809.6	2812.9	2796.1	2752.6	2755.9
7.5°	2910.1	2880.0	2849.8	2786.1	2812.9	2802.9	2776.0	2755.9	2729.1	2692.2	2685.5
10°	2916.8	2883.3	2839.7	2819.6	2779.4	2766.0	2755.9	2722.4	2688.9	2625.2	2608.4
12.5°	2896.7	2856.5	2802.9	2786.1	2755.9	2712.3	2688.9	2655.3	2625.2	2574.9	2538.0
15°	2809.6	2776.0	2759.3	2702.3	2688.9	2662.0	2615.1	2568.2	2524.6	2457.4	2437.4
17.5°	2709.0	2695.6	2678.8	2635.2	2631.9	2605.1	2561.5	2521.2	2464.3	2360.2	2326.8
20°	2605.1	2605.1	2551.4	2534.7	2568.2	2514.5	2481.0	2444.1	2326.8	2276.4	2216.2
22.5°	2528.0	2491.1	2460.9	2434.1	2437.4	2403.9	2357.0	2283.1	2239.5	2179.2	2108.8
25°	2377.1	2390.5	2323.5	2313.4	2323.5	2246.2	2222.9	2162.4	2098.7	2041.7	1988.1
27.5°	2283.1	2246.2	2202.8	2165.8	2165.8	2135.6	2068.6	2055.3	1957.9	1904.3	1837.2
30°	2142.3	2115.5	2078.6	2025.0	2018.3	1994.8	1941.2	1907.6	1807.1	1726.6	1689.7
32.5°	1964.6	1954.6	1924.4	1864.1	1844.0	1817.1	1750.1	1693.1	1646.2	1555.6	1512.1
35°	1837.2	1800.4	1736.7	1686.4	1669.6	1622.7	1569.0	1528.8	1478.5	1398.1	1341.1
37.5°	1646.2	1609.3	1548.9	1488.6	1488.6	1441.7	1367.9	1327.7	1257.3	1210.3	1163.4
40°	1478.5	1431.6	1371.3	1300.9	1290.8	1223.7	1193.6	1126.5	1082.9	1009.2	1002.5
42.5°	1290.8	1247.2	1193.6	1139.9	1099.7	1066.2	989.1	938.8	891.9	855.0	844.9
45°	1119.8	1062.8	1015.9	948.7	908.6	868.4	818.1	784.6	747.7	707.5	683.9
47.5°	972.3	925.4	858.2	798.0	757.8	737.5	680.5	643.8	613.5	586.7	569.9
50°	821.5	764.5	727.6	660.4	653.7	606.8	560.0	529.7	512.9	489.5	466.0
52.5°	707.5	653.7	603.4	553.3	526.3	509.6	466.0	435.8	412.4	395.6	382.2
55°	596.7	549.8	509.6	459.3	442.5	419.1	368.8	362.1	338.6	315.1	298.4
57.5°	512.9	469.3	422.4	388.9	358.7	342.0	301.7	274.9	261.5	241.4	224.6
60°	435.8	388.9	352.0	311.8	298.4	274.9	244.7	221.3	204.5	187.7	171.0
62.5°	365.4	325.2	285.0	251.4	231.3	217.9	194.4	174.3	157.6	144.2	130.7
65°	301.7	264.8	231.3	197.8	187.7	171.0	154.2	137.5	124.0	107.3	93.9
67.5°	248.1	214.6	181.0	157.6	147.5	140.8	120.7	103.9	93.9	83.8	70.4
70°	194.4	171.0	144.2	124.0	114.0	103.9	90.5	80.5	67.0	60.3	50.3
72.5°	150.9	130.7	107.3	90.5	83.8	77.1	63.7	53.6	46.9	40.2	33.5
75°	107.3	90.5	77.1	60.3	57.0	53.6	43.6	36.9	30.2	23.5	20.1
77.5°	73.8	60.3	46.9	40.2	36.9	30.2	26.8	20.1	16.8	13.4	10.1
80°	40.2	30.2	23.5	20.1	16.8	13.4	13.4	10.1	6.7	6.7	3.4
82.5°	13.4	10.1	6.7	3.4	3.4	3.4	3.4	3.4	3.4	0.0	3.4
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°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	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

TEST NUMBER: P#
 CATALOG NUMBER: FLDSQ4C55D010 FEU4C559050 F4LC-SQLWW-H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1
2.5°	2792.8	2755.9	2766.0	2766.0	2759.3	2759.3	2752.6	2742.5	2745.9	2725.7	2682.2
5°	2762.6	2715.7	2709.0	2715.7	2688.9	2682.2	2668.8	2688.9	2628.5	2652.0	2625.2
7.5°	2675.5	2631.9	2621.8	2645.3	2611.8	2591.6	2588.3	2615.1	2561.5	2534.7	2504.5
10°	2578.2	2561.5	2531.3	2514.5	2504.5	2507.8	2481.0	2447.5	2437.4	2430.7	2403.9
12.5°	2491.1	2454.2	2427.4	2407.3	2400.6	2400.6	2357.0	2350.3	2320.1	2313.4	2273.2
15°	2387.0	2343.6	2326.8	2300.0	2276.4	2289.8	2239.5	2226.1	2216.2	2172.5	2179.2
17.5°	2296.5	2249.7	2209.5	2192.6	2172.5	2152.5	2105.4	2115.5	2092.0	2092.0	2031.7
20°	2179.2	2128.9	2098.7	2065.2	2065.2	2038.4	2004.9	2008.2	1978.0	1947.9	1894.2
22.5°	2055.3	2001.5	1964.6	1951.2	1917.7	1911.0	1870.8	1860.7	1820.5	1823.8	1776.9
25°	1924.4	1870.8	1820.5	1823.8	1793.7	1780.3	1756.8	1709.9	1693.1	1673.0	1659.6
27.5°	1770.2	1733.3	1689.7	1686.4	1629.4	1632.7	1602.6	1589.2	1548.9	1559.0	1528.8
30°	1629.4	1575.8	1535.5	1525.5	1502.0	1495.3	1448.4	1428.2	1435.0	1408.1	1391.4
32.5°	1485.2	1404.8	1388.0	1367.9	1354.5	1337.7	1304.2	1317.6	1287.4	1294.1	1267.3
35°	1294.1	1260.6	1217.0	1217.0	1203.6	1190.2	1166.8	1180.2	1150.0	1136.6	1109.8
37.5°	1133.2	1103.1	1059.5	1072.9	1049.4	1029.3	1009.2	1012.5	985.7	982.4	955.4
40°	958.9	942.1	912.0	912.0	895.2	895.2	885.0	875.1	858.2	838.2	807.9
42.5°	794.5	781.1	767.7	771.2	747.7	767.7	741.0	757.8	704.0	700.8	680.5
45°	673.8	643.8	647.0	633.6	620.2	626.9	603.4	610.1	580.0	573.3	553.3
47.5°	546.6	536.4	516.3	509.6	509.6	499.5	489.5	486.1	472.7	455.9	429.1
50°	449.2	412.4	405.6	395.6	388.9	388.9	375.5	355.4	358.7	342.0	315.1
52.5°	352.0	321.8	308.4	305.1	291.7	285.0	268.2	254.8	244.7	238.0	221.3
55°	271.5	244.7	228.0	228.0	207.9	207.9	184.4	174.3	160.9	147.5	137.5
57.5°	204.5	191.1	174.3	160.9	154.2	137.5	124.0	107.3	97.2	77.1	63.7
60°	154.2	140.8	124.0	114.0	107.3	90.5	73.8	60.3	36.9	30.2	26.8
62.5°	114.0	100.6	83.8	77.1	70.4	57.0	40.2	20.1	10.1	10.1	10.1
65°	83.8	67.0	53.6	46.9	40.2	30.2	13.4	6.7	3.4	3.4	3.4
67.5°	57.0	43.6	30.2	26.8	20.1	10.1	3.4	3.4	3.4	3.4	3.4
70°	36.9	26.8	13.4	10.1	6.7	3.4	3.4	3.4	3.4	3.4	3.4
72.5°	23.5	13.4	6.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	13.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.4	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	3.4	3.4	3.4
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 FEU4C559050 F4LC-SQLWW-H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1
2.5°	2729.1	2705.6	2719.0	2688.9	2702.3	2725.7	2709.0	2715.7
5°	2635.2	2621.8	2605.1	2561.5	2595.0	2621.8	2608.4	2605.1
7.5°	2534.7	2487.7	2511.2	2497.8	2491.1	2517.9	2487.7	2521.2
10°	2430.7	2397.2	2393.9	2370.4	2370.4	2390.5	2393.9	2373.6
12.5°	2276.4	2259.8	2259.8	2256.4	2252.9	2273.2	2276.4	2266.5
15°	2165.8	2159.2	2142.3	2139.1	2119.0	2149.0	2152.5	2149.0
17.5°	2031.7	2035.0	2018.3	2018.3	2031.7	2041.7	2014.9	2041.7
20°	1941.2	1924.4	1917.7	1887.5	1904.3	1921.1	1921.1	1924.4
22.5°	1810.4	1783.6	1793.7	1776.9	1766.8	1790.3	1790.3	1800.4
25°	1662.9	1662.9	1669.6	1659.6	1666.3	1679.7	1669.6	1693.1
27.5°	1522.1	1535.5	1535.5	1522.1	1528.8	1569.0	1585.8	1559.0
30°	1391.4	1394.7	1404.8	1398.1	1418.2	1431.6	1428.2	1448.4
32.5°	1243.9	1260.6	1267.3	1257.3	1264.0	1294.1	1277.4	1274.0
35°	1129.9	1099.7	1096.4	1099.7	1113.1	1119.8	1113.1	1136.6
37.5°	965.6	955.4	942.1	945.5	955.4	969.0	975.7	992.4
40°	807.9	794.5	794.5	791.3	781.1	818.1	818.1	818.1
42.5°	670.5	667.1	650.5	650.5	663.8	673.8	667.1	690.6
45°	549.8	536.4	526.3	526.3	536.4	536.4	546.6	543.1
47.5°	432.5	419.1	422.4	412.4	422.4	435.8	419.1	422.4
50°	325.2	325.2	318.5	325.2	321.8	325.2	318.5	311.8
52.5°	221.3	251.4	254.8	241.4	211.2	184.4	167.6	181.0
55°	127.4	114.0	114.0	110.6	103.9	100.6	90.5	100.6
57.5°	63.7	57.0	57.0	57.0	53.6	50.3	43.6	43.6
60°	26.8	23.5	23.5	20.1	16.8	13.4	10.1	13.4
62.5°	10.1	6.7	6.7	6.7	6.7	6.7	6.7	6.7
65°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
67.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
70°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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)