

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: **FLDSQ4C65D010 FEU4C659030 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: FLDSQ4C65D010 FEU4C659030 F4LC-SQLWW-H
 Description: 4 INCH 6500 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND F4LC-SQLWW TRIM WITH H FINISH
 Light Source: -
 Ballast/Driver: -

Summary

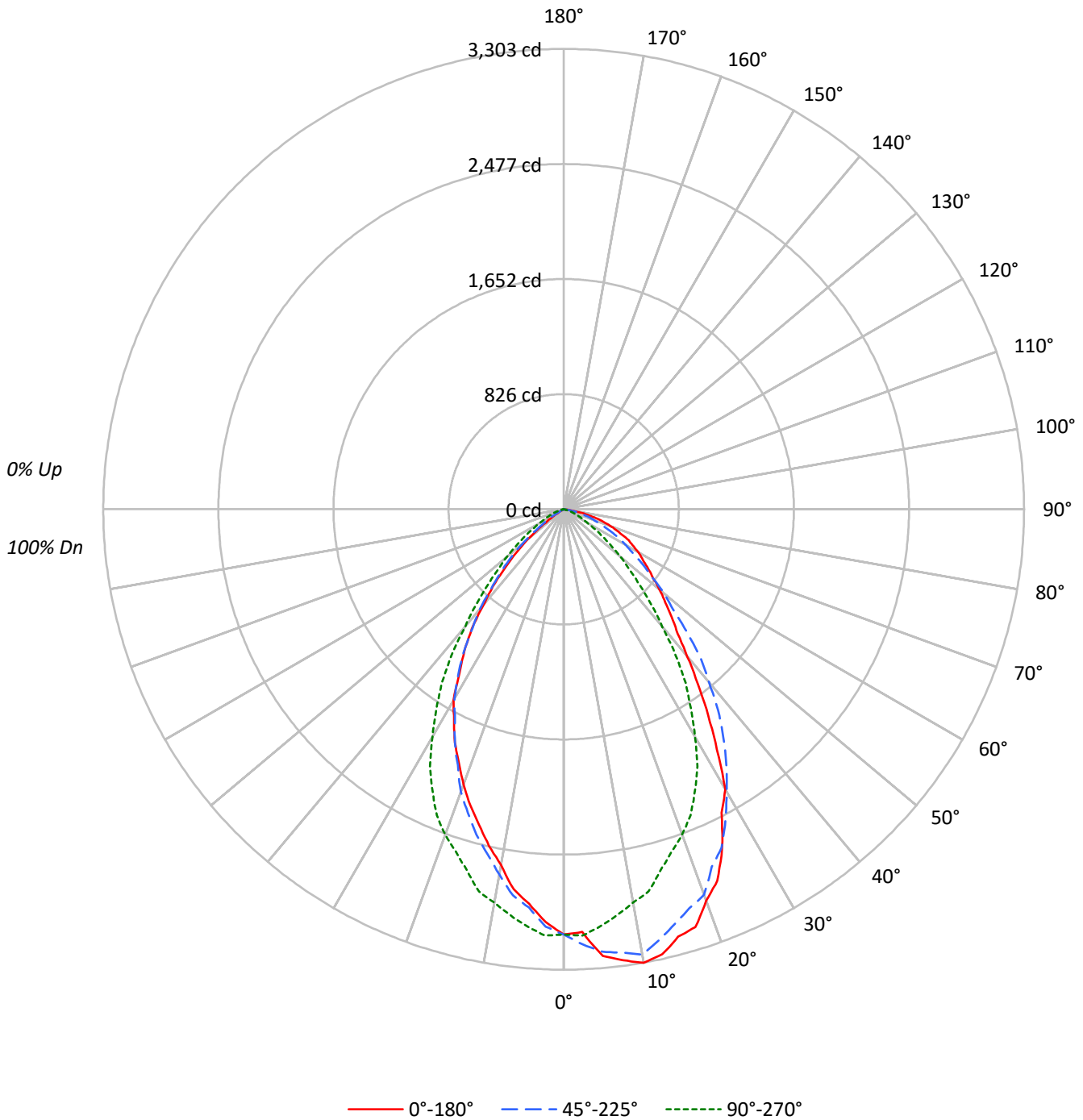
Lumens per Lamp: N/A
 Luminaire Lumens: 4373.0 lumens
 Efficiency: N/A
 Efficacy: 60.4 lumens/watt
 Spacing Criteria (0/90/45): 1.01 / 1 / 1.06
 Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
 CIE Type: Direct

Input Watts (W): 72.4
 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: FLDSQ4C65D010 FEU4C659030 F4LC-SQLWW-H

Luminous Intensity Polar Plot



TEST NUMBER: P#

CATALOG NUMBER: FLDSQ4C65D010 FEU4C659030 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°	294359	294359	294359
5°	311435	290892	275298
10°	323639	280637	253742
15°	317169	267832	234218
20°	306884	255040	215600
25°	286249	237169	196670
30°	258395	209896	176070
35°	212849	179679	146073
40°	173708	138692	112429
45°	149255	105330	80864
50°	135084	80174	51067
55°	124300	57835	18471
60°	119318	39522	2817
65°	115229	26735	845
70°	103169	18563	1044
75°	84589	9581	0
80°	52899	4056	0
85°	0	0	0



TEST NUMBER: P#
 CATALOG NUMBER: FLDSQ4C65D010 FEU4C659030 F4LC-SQLWW-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.8	6.5
10°-20°	770.1	17.6
20°-30°	1028.3	23.5
30°-40°	976.2	22.3
40°-50°	674.8	15.4
50°-60°	372.8	8.5
60°-70°	185.1	4.2
70°-80°	72.9	1.7
80°-90°	6.9	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°	2084.2	47.7
0°-40°	3060.4	70.0
0°-60°	4108.0	93.9
0°-90°	4373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4373.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3051	3051	3051	3051	3051	
5°	3215	3186	3003	2868	2842	308
15°	3175	3080	2681	2418	2345	898
25°	2689	2678	2228	1847	1847	1226
35°	1807	1997	1525	1255	1240	1132
45°	1094	1255	772	633	593	853
55°	739	695	344	176	110	665
65°	505	366	117	4	4	490
75°	227	139	26	0	0	242
85°	0	4	0	0	0	21
90°	0	0	0	0	0	

TEST NUMBER: P#
 CATALOG NUMBER: FLDSQ4C65D010 FEU4C659030 F4LC-SQLWW-H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3050.7	3050.7	3050.7	3050.7	3050.7	3050.7	3050.7	3050.7	3050.7	3050.7	3050.7
2.5°	3036.1	3120.2	3127.5	3120.2	3131.2	3127.5	3145.9	3127.5	3149.6	3116.6	3123.9
5°	3215.4	3182.4	3251.9	3215.4	3215.4	3211.8	3200.8	3197.0	3211.8	3164.2	3186.1
7.5°	3263.0	3310.5	3372.7	3295.9	3299.5	3299.5	3277.6	3270.3	3270.3	3182.4	3208.1
10°	3303.2	3273.8	3306.8	3277.6	3303.2	3299.5	3314.1	3266.5	3299.5	3248.3	3244.6
12.5°	3270.3	3259.2	3303.2	3255.6	3241.0	3244.6	3226.4	3215.4	3226.4	3167.8	3164.2
15°	3175.1	3186.1	3251.9	3200.8	3193.4	3186.1	3164.2	3127.5	3156.9	3076.4	3080.1
17.5°	3142.3	3123.9	3135.0	3091.0	3102.0	3094.7	3091.0	3058.2	3050.7	2999.5	2999.5
20°	2988.7	3028.8	3028.8	2999.5	2999.5	2996.0	2948.4	2977.6	2944.7	2930.0	2944.7
22.5°	2882.5	2886.2	2886.2	2860.5	2864.3	2849.6	2824.0	2805.6	2824.0	2805.6	2776.4
25°	2688.7	2696.0	2739.9	2692.3	2685.0	2699.6	2677.7	2666.6	2663.0	2619.2	2677.7
27.5°	2454.5	2527.6	2524.0	2505.7	2527.6	2498.4	2487.5	2491.1	2502.1	2498.4	2513.0
30°	2319.2	2330.1	2341.2	2326.5	2330.1	2319.2	2319.2	2322.8	2352.1	2341.2	2337.4
32.5°	2044.8	2081.3	2110.7	2110.7	2114.3	2125.3	2121.6	2198.4	2216.8	2180.2	2172.9
35°	1807.0	1832.7	1858.2	1861.9	1909.5	1913.1	1916.8	1938.7	1989.9	2000.9	1997.2
37.5°	1580.3	1605.8	1613.1	1646.1	1671.7	1697.3	1726.6	1755.9	1799.7	1836.3	1818.1
40°	1379.1	1390.0	1408.3	1423.0	1474.1	1474.1	1488.7	1547.4	1594.9	1624.2	1620.4
42.5°	1210.9	1214.4	1229.1	1254.7	1302.3	1291.3	1302.3	1342.6	1411.9	1415.6	1455.9
45°	1093.8	1090.0	1101.1	1104.7	1134.0	1148.7	1156.0	1185.2	1243.7	1251.0	1254.7
47.5°	987.7	984.0	1002.3	1009.6	1020.5	1035.2	1035.2	1038.9	1060.8	1079.1	1064.5
50°	899.9	899.9	899.9	907.2	925.5	921.8	925.5	940.1	951.0	943.7	940.1
52.5°	804.7	819.3	830.4	834.1	837.7	837.7	841.4	834.1	830.4	819.3	797.4
55°	738.9	753.5	753.5	753.5	753.5	768.2	750.0	753.5	753.5	724.3	695.1
57.5°	673.1	687.8	698.7	684.0	698.7	684.0	676.7	673.1	665.7	636.5	592.6
60°	618.3	625.6	621.8	618.3	625.6	614.5	607.2	592.6	585.3	545.0	515.8
62.5°	556.1	559.6	563.4	556.1	548.7	545.0	530.4	508.5	493.9	460.9	435.2
65°	504.7	493.9	490.1	486.5	479.2	468.2	457.3	431.7	420.6	391.4	365.7
67.5°	427.9	424.3	431.7	420.6	402.4	402.4	391.4	369.5	343.8	325.6	300.0
70°	365.7	362.2	354.8	343.8	340.2	325.6	325.6	300.0	292.6	259.7	237.8
72.5°	300.0	300.0	288.9	278.0	267.0	259.7	256.1	237.8	226.9	208.5	190.2
75°	226.9	226.9	223.1	212.1	204.8	197.5	193.9	179.3	168.2	150.0	139.0
77.5°	160.9	160.9	146.3	139.0	142.6	135.3	128.0	124.4	120.7	109.8	95.2
80°	95.2	91.4	80.5	84.1	80.5	80.5	76.8	73.1	65.8	58.5	51.2
82.5°	25.7	29.2	29.2	29.2	33.0	25.7	25.7	25.7	29.2	29.2	18.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	3.7	3.7
87.5°	3.7	7.3	14.6	14.6	14.6	14.6	14.6	11.0	11.0	11.0	7.3
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: FLDSQ4C65D010 FEU4C659030 F4LC-SQLWW-H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3050.7	3050.7	3050.7	3050.7	3050.7	3050.7	3050.7	3050.7	3050.7	3050.7	3050.7
2.5°	3087.4	3083.7	3087.4	3061.7	3120.2	3076.4	3069.0	3061.7	3087.4	3061.7	3025.2
5°	3153.2	3116.6	3105.6	3094.7	3127.5	3076.4	3065.5	3069.0	3050.7	3003.3	3006.9
7.5°	3175.1	3142.3	3109.3	3039.8	3069.0	3058.2	3028.8	3006.9	2977.6	2937.3	2930.0
10°	3182.4	3145.9	3098.3	3076.4	3032.5	3017.9	3006.9	2970.3	2933.8	2864.3	2845.9
12.5°	3160.5	3116.6	3058.2	3039.8	3006.9	2959.3	2933.8	2897.1	2864.3	2809.4	2769.1
15°	3065.5	3028.8	3010.6	2948.4	2933.8	2904.4	2853.2	2802.1	2754.5	2681.2	2659.3
17.5°	2955.7	2941.1	2922.7	2875.1	2871.6	2842.3	2794.7	2750.8	2688.7	2575.2	2538.6
20°	2842.3	2842.3	2783.7	2765.5	2802.1	2743.4	2706.9	2666.6	2538.6	2483.8	2418.0
22.5°	2758.2	2717.9	2685.0	2655.7	2659.3	2622.8	2571.6	2491.1	2443.5	2377.7	2300.9
25°	2593.5	2608.2	2535.1	2524.0	2535.1	2450.8	2425.3	2359.4	2289.9	2227.7	2169.2
27.5°	2491.1	2450.8	2403.4	2363.1	2363.1	2330.1	2257.0	2242.4	2136.2	2077.8	2004.5
30°	2337.4	2308.2	2267.9	2209.5	2202.1	2176.5	2118.0	2081.3	1971.7	1883.9	1843.6
32.5°	2143.5	2132.6	2099.7	2033.9	2012.0	1982.6	1909.5	1847.3	1796.1	1697.3	1649.8
35°	2004.5	1964.4	1894.9	1840.0	1821.7	1770.5	1711.9	1668.0	1613.1	1525.4	1463.2
37.5°	1796.1	1755.9	1689.9	1624.2	1624.2	1573.0	1492.5	1448.6	1371.8	1320.5	1269.3
40°	1613.1	1562.0	1496.2	1419.4	1408.3	1335.1	1302.3	1229.1	1181.5	1101.1	1093.8
42.5°	1408.3	1360.8	1302.3	1243.7	1199.8	1163.3	1079.1	1024.3	973.1	932.8	921.8
45°	1221.7	1159.5	1108.4	1035.2	991.3	947.4	892.6	856.0	815.7	771.9	746.2
47.5°	1060.8	1009.6	936.4	870.6	826.8	804.7	742.5	702.4	669.4	640.2	621.8
50°	896.3	834.1	793.8	720.6	713.3	662.1	610.9	578.0	559.6	534.1	508.5
52.5°	771.9	713.3	658.4	603.6	574.3	556.1	508.5	475.5	450.0	431.7	417.0
55°	651.1	599.9	556.1	501.2	482.8	457.3	402.4	395.1	369.5	343.8	325.6
57.5°	559.6	512.1	460.9	424.3	391.4	373.2	329.2	300.0	285.3	263.4	245.1
60°	475.5	424.3	384.1	340.2	325.6	300.0	267.0	241.5	223.1	204.8	186.6
62.5°	398.7	354.8	311.0	274.3	252.4	237.8	212.1	190.2	172.0	157.4	142.6
65°	329.2	288.9	252.4	215.8	204.8	186.6	168.2	150.0	135.3	117.1	102.5
67.5°	270.7	234.2	197.5	172.0	160.9	153.6	131.7	113.4	102.5	91.4	76.8
70°	212.1	186.6	157.4	135.3	124.4	113.4	98.7	87.9	73.1	65.8	54.9
72.5°	164.7	142.6	117.1	98.7	91.4	84.1	69.5	58.5	51.2	43.9	36.5
75°	117.1	98.7	84.1	65.8	62.2	58.5	47.6	40.3	33.0	25.7	21.9
77.5°	80.5	65.8	51.2	43.9	40.3	33.0	29.2	21.9	18.3	14.6	11.0
80°	43.9	33.0	25.7	21.9	18.3	14.6	14.6	11.0	7.3	7.3	3.7
82.5°	14.6	11.0	7.3	3.7	3.7	3.7	3.7	3.7	3.7	0.0	3.7
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°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	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: FLDSQ4C65D010 FEU4C659030 F4LC-SQLWW-H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3050.7	3050.7	3050.7	3050.7	3050.7	3050.7	3050.7	3050.7	3050.7	3050.7	3050.7
2.5°	3047.1	3006.9	3017.9	3017.9	3010.6	3010.6	3003.3	2992.2	2996.0	2973.9	2926.5
5°	3014.2	2963.0	2955.7	2963.0	2933.8	2926.5	2911.8	2933.8	2867.8	2893.5	2864.3
7.5°	2919.1	2871.6	2860.5	2886.2	2849.6	2827.6	2824.0	2853.2	2794.7	2765.5	2732.5
10°	2812.9	2794.7	2761.8	2743.4	2732.5	2736.1	2706.9	2670.4	2659.3	2652.0	2622.8
12.5°	2717.9	2677.7	2648.4	2626.5	2619.2	2619.2	2571.6	2564.3	2531.3	2524.0	2480.2
15°	2604.4	2557.0	2538.6	2509.4	2483.8	2498.4	2443.5	2428.9	2418.0	2370.4	2377.7
17.5°	2505.7	2454.5	2410.7	2392.3	2370.4	2348.5	2297.2	2308.2	2282.5	2282.5	2216.8
20°	2377.7	2322.8	2289.9	2253.3	2253.3	2224.1	2187.5	2191.1	2158.2	2125.3	2066.7
22.5°	2242.4	2183.8	2143.5	2128.9	2092.4	2085.1	2041.2	2030.2	1986.3	1989.9	1938.7
25°	2099.7	2041.2	1986.3	1989.9	1957.1	1942.5	1916.8	1865.6	1847.3	1825.4	1810.8
27.5°	1931.4	1891.2	1843.6	1840.0	1777.8	1781.4	1748.6	1733.9	1689.9	1701.0	1668.0
30°	1777.8	1719.3	1675.3	1664.4	1638.8	1631.5	1580.3	1558.2	1565.7	1536.3	1518.1
32.5°	1620.4	1532.7	1514.4	1492.5	1477.8	1459.5	1423.0	1437.6	1404.6	1411.9	1382.7
35°	1411.9	1375.4	1327.8	1327.8	1313.2	1298.6	1273.0	1287.7	1254.7	1240.1	1210.9
37.5°	1236.4	1203.5	1156.0	1170.6	1144.9	1123.0	1101.1	1104.7	1075.4	1071.8	1042.5
40°	1046.2	1027.8	995.0	995.0	976.7	976.7	965.6	954.8	936.4	914.5	881.5
42.5°	866.9	852.3	837.7	841.4	815.7	837.7	808.4	826.8	768.2	764.6	742.5
45°	735.2	702.4	706.0	691.3	676.7	684.0	658.4	665.7	632.9	625.6	603.6
47.5°	596.3	585.3	563.4	556.1	556.1	545.0	534.1	530.4	515.8	497.4	468.2
50°	490.1	450.0	442.6	431.7	424.3	424.3	409.7	387.8	391.4	373.2	343.8
52.5°	384.1	351.1	336.5	332.9	318.3	311.0	292.6	278.0	267.0	259.7	241.5
55°	296.2	267.0	248.8	248.8	226.9	226.9	201.2	190.2	175.6	160.9	150.0
57.5°	223.1	208.5	190.2	175.6	168.2	150.0	135.3	117.1	106.1	84.1	69.5
60°	168.2	153.6	135.3	124.4	117.1	98.7	80.5	65.8	40.3	33.0	29.2
62.5°	124.4	109.8	91.4	84.1	76.8	62.2	43.9	21.9	11.0	11.0	11.0
65°	91.4	73.1	58.5	51.2	43.9	33.0	14.6	7.3	3.7	3.7	3.7
67.5°	62.2	47.6	33.0	29.2	21.9	11.0	3.7	3.7	3.7	3.7	3.7
70°	40.3	29.2	14.6	11.0	7.3	3.7	3.7	3.7	3.7	3.7	3.7
72.5°	25.7	14.6	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	14.6	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.7	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	3.7	3.7	3.7
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: FLDSQ4C65D010 FEU4C659030 F4LC-SQLWW-H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3050.7	3050.7	3050.7	3050.7	3050.7	3050.7	3050.7	3050.7
2.5°	2977.6	2952.0	2966.6	2933.8	2948.4	2973.9	2955.7	2963.0
5°	2875.1	2860.5	2842.3	2794.7	2831.3	2860.5	2845.9	2842.3
7.5°	2765.5	2714.2	2739.9	2725.2	2717.9	2747.2	2714.2	2750.8
10°	2652.0	2615.5	2611.9	2586.2	2586.2	2608.2	2611.9	2589.8
12.5°	2483.8	2465.6	2465.6	2461.8	2458.1	2480.2	2483.8	2472.9
15°	2363.1	2355.8	2337.4	2333.9	2311.9	2344.7	2348.5	2344.7
17.5°	2216.8	2220.3	2202.1	2202.1	2216.8	2227.7	2198.4	2227.7
20°	2118.0	2099.7	2092.4	2059.4	2077.8	2096.1	2096.1	2099.7
22.5°	1975.3	1946.0	1957.1	1938.7	1927.7	1953.4	1953.4	1964.4
25°	1814.3	1814.3	1821.7	1810.8	1818.1	1832.7	1821.7	1847.3
27.5°	1660.7	1675.3	1675.3	1660.7	1668.0	1711.9	1730.2	1701.0
30°	1518.1	1521.7	1532.7	1525.4	1547.4	1562.0	1558.2	1580.3
32.5°	1357.2	1375.4	1382.7	1371.8	1379.1	1411.9	1393.7	1390.0
35°	1232.8	1199.8	1196.2	1199.8	1214.4	1221.7	1214.4	1240.1
37.5°	1053.5	1042.5	1027.8	1031.6	1042.5	1057.2	1064.5	1082.7
40°	881.5	866.9	866.9	863.3	852.3	892.6	892.6	892.6
42.5°	731.6	727.9	709.7	709.7	724.3	735.2	727.9	753.5
45°	599.9	585.3	574.3	574.3	585.3	585.3	596.3	592.6
47.5°	471.9	457.3	460.9	450.0	460.9	475.5	457.3	460.9
50°	354.8	354.8	347.5	354.8	351.1	354.8	347.5	340.2
52.5°	241.5	274.3	278.0	263.4	230.4	201.2	182.9	197.5
55°	139.0	124.4	124.4	120.7	113.4	109.8	98.7	109.8
57.5°	69.5	62.2	62.2	62.2	58.5	54.9	47.6	47.6
60°	29.2	25.7	25.7	21.9	18.3	14.6	11.0	14.6
62.5°	11.0	7.3	7.3	7.3	7.3	7.3	7.3	7.3
65°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
67.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
70°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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)