

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-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 FEU4C559027 F4LC-SQLWW-H
 Description: 4 INCH 5500 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND F4LC-SQLWW TRIM WITH H FINISH
 Light Source: -
 Ballast/Driver: -

Summary

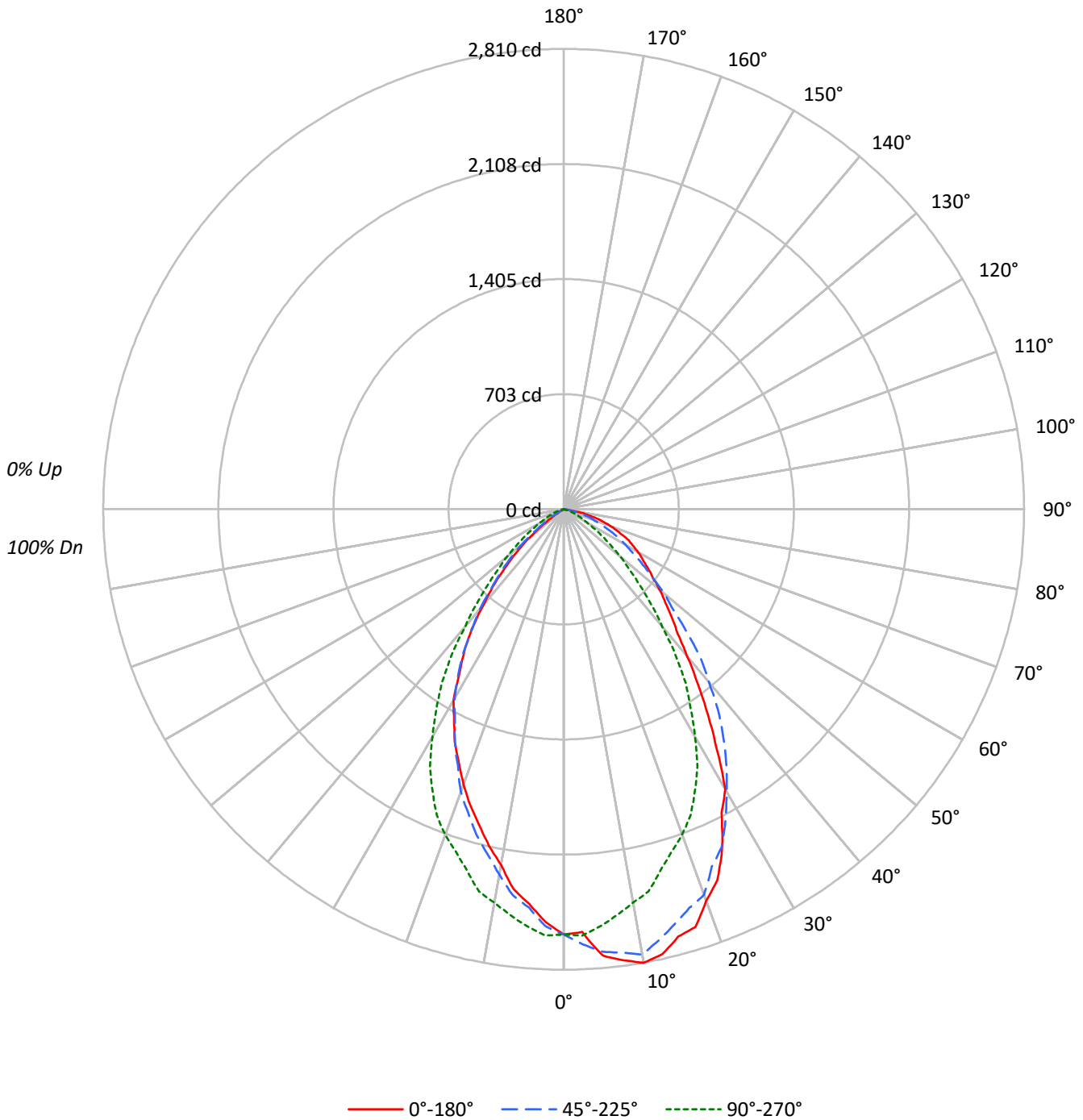
Lumens per Lamp: N/A
 Luminaire Lumens: 3720.0 lumens
 Efficiency: N/A
 Efficacy: 58.2 lumens/watt
 Spacing Criteria (0/90/45): 1.01 / 1 / 1.06
 Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
 CIE Type: Direct

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 FEU4C559027 F4LC-SQLWW-H

Luminous Intensity Polar Plot



TEST NUMBER: P#
 CATALOG NUMBER: FLDSQ4C55D010 FEU4C559027 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°	250408	250408	250408
5°	264925	247451	234192
10°	275316	238722	215854
15°	269810	227845	199246
20°	261057	216955	183399
25°	243504	201749	167308
30°	219812	178544	149776
35°	181069	152846	124258
40°	147773	117984	95639
45°	126959	89597	68787
50°	114909	68210	43442
55°	105745	49205	15712
60°	101487	33617	2393
65°	98037	22740	731
70°	87766	15798	903
75°	71951	8127	0
80°	45008	3445	0
85°	0	0	0

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.2	6.5
10°-20°	655.1	17.6
20°-30°	874.8	23.5
30°-40°	830.4	22.3
40°-50°	574.0	15.4
50°-60°	317.2	8.5
60°-70°	157.5	4.2
70°-80°	62.1	1.7
80°-90°	5.9	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°	1773.0	47.7
0°-40°	2603.4	70.0
0°-60°	3494.5	93.9
0°-90°	3720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3720.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2595	2595	2595	2595	2595	
5°	2735	2710	2555	2440	2418	262
15°	2701	2620	2281	2057	1995	764
25°	2287	2278	1895	1572	1572	1043
35°	1537	1699	1298	1067	1055	963
45°	930	1067	657	538	504	726
55°	629	591	292	149	93	566
65°	429	311	100	3	3	417
75°	193	118	22	0	0	206
85°	0	3	0	0	0	18
90°	0	0	0	0	0	

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2
2.5°	2582.7	2654.3	2660.5	2654.3	2663.7	2660.5	2676.1	2660.5	2679.3	2651.2	2657.5
5°	2735.2	2707.2	2766.3	2735.2	2735.2	2732.2	2722.8	2719.6	2732.2	2691.7	2710.4
7.5°	2775.7	2816.2	2869.1	2803.7	2806.8	2806.8	2788.1	2781.9	2781.9	2707.2	2729.0
10°	2810.0	2785.0	2813.0	2788.1	2810.0	2806.8	2819.2	2778.8	2806.8	2763.3	2760.1
12.5°	2781.9	2772.5	2810.0	2769.5	2757.1	2760.1	2744.6	2735.2	2744.6	2694.8	2691.7
15°	2701.0	2710.4	2766.3	2722.8	2716.6	2710.4	2691.7	2660.5	2685.5	2617.0	2620.1
17.5°	2673.1	2657.5	2666.8	2629.4	2638.8	2632.6	2629.4	2601.5	2595.2	2551.6	2551.6
20°	2542.4	2576.5	2576.5	2551.6	2551.6	2548.6	2508.1	2533.0	2504.9	2492.5	2504.9
22.5°	2452.0	2455.2	2455.2	2433.4	2436.5	2424.1	2402.3	2386.7	2402.3	2386.7	2361.8
25°	2287.2	2293.4	2330.7	2290.3	2284.0	2296.5	2277.8	2268.4	2265.4	2228.1	2277.8
27.5°	2088.0	2150.2	2147.1	2131.5	2150.2	2125.3	2116.0	2119.1	2128.5	2125.3	2137.7
30°	1972.9	1982.2	1991.6	1979.1	1982.2	1972.9	1972.9	1976.0	2000.8	1991.6	1988.4
32.5°	1739.5	1770.5	1795.5	1795.5	1798.6	1808.0	1804.8	1870.1	1885.7	1854.7	1848.4
35°	1537.2	1559.0	1580.7	1583.9	1624.4	1627.4	1630.6	1649.2	1692.8	1702.1	1699.0
37.5°	1344.3	1366.0	1372.3	1400.3	1422.1	1443.8	1468.8	1493.7	1531.0	1562.1	1546.6
40°	1173.2	1182.4	1198.0	1210.5	1254.0	1254.0	1266.4	1316.3	1356.8	1381.6	1378.5
42.5°	1030.0	1033.1	1045.5	1067.3	1107.8	1098.4	1107.8	1142.1	1201.1	1204.3	1238.5
45°	930.4	927.3	936.7	939.7	964.7	977.1	983.3	1008.2	1058.0	1064.2	1067.3
47.5°	840.2	837.1	852.7	858.9	868.1	880.6	880.6	883.7	902.4	918.0	905.6
50°	765.5	765.5	765.5	771.7	787.3	784.1	787.3	799.7	809.0	802.8	799.7
52.5°	684.5	697.0	706.4	709.5	712.6	712.6	715.7	709.5	706.4	697.0	678.3
55°	628.6	641.0	641.0	641.0	641.0	653.5	638.0	641.0	641.0	616.1	591.3
57.5°	572.6	585.1	594.3	581.9	594.3	581.9	575.7	572.6	566.3	541.4	504.1
60°	525.9	532.1	529.0	525.9	532.1	522.8	516.5	504.1	497.9	463.6	438.8
62.5°	473.0	476.1	479.2	473.0	466.8	463.6	451.2	432.5	420.1	392.1	370.2
65°	429.4	420.1	416.9	413.9	407.7	398.3	389.0	367.2	357.8	332.9	311.1
67.5°	364.0	361.0	367.2	357.8	342.3	342.3	332.9	314.3	292.5	277.0	255.2
70°	311.1	308.1	301.9	292.5	289.4	277.0	277.0	255.2	248.9	220.9	202.3
72.5°	255.2	255.2	245.8	236.5	227.1	220.9	217.9	202.3	193.0	177.4	161.8
75°	193.0	193.0	189.8	180.4	174.2	168.0	164.9	152.5	143.1	127.6	118.3
77.5°	136.9	136.9	124.5	118.3	121.3	115.1	108.9	105.8	102.7	93.4	81.0
80°	81.0	77.8	68.5	71.6	68.5	68.5	65.3	62.2	56.0	49.7	43.5
82.5°	21.8	24.9	24.9	24.9	28.0	21.8	21.8	21.8	24.9	24.9	15.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	3.2
87.5°	3.2	6.2	12.4	12.4	12.4	12.4	12.4	9.4	9.4	9.4	6.2
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-H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2
2.5°	2626.4	2623.2	2626.4	2604.5	2654.3	2617.0	2610.8	2604.5	2626.4	2604.5	2573.5
5°	2682.3	2651.2	2641.8	2632.6	2660.5	2617.0	2607.7	2610.8	2595.2	2554.8	2557.9
7.5°	2701.0	2673.1	2645.0	2585.9	2610.8	2601.5	2576.5	2557.9	2533.0	2498.7	2492.5
10°	2707.2	2676.1	2635.6	2617.0	2579.7	2567.2	2557.9	2526.8	2495.7	2436.5	2420.9
12.5°	2688.5	2651.2	2601.5	2585.9	2557.9	2517.4	2495.7	2464.5	2436.5	2389.9	2355.6
15°	2607.7	2576.5	2561.0	2508.1	2495.7	2470.7	2427.2	2383.6	2343.2	2280.9	2262.2
17.5°	2514.3	2501.9	2486.3	2445.8	2442.8	2417.9	2377.4	2340.0	2287.2	2190.7	2159.6
20°	2417.9	2417.9	2368.0	2352.6	2383.6	2333.8	2302.7	2268.4	2159.6	2112.9	2056.9
22.5°	2346.3	2312.1	2284.0	2259.2	2262.2	2231.1	2187.6	2119.1	2078.6	2022.7	1957.3
25°	2206.3	2218.7	2156.5	2147.1	2156.5	2084.8	2063.1	2007.0	1947.9	1895.0	1845.3
27.5°	2119.1	2084.8	2044.5	2010.2	2010.2	1982.2	1920.0	1907.6	1817.2	1767.5	1705.2
30°	1988.4	1963.5	1929.3	1879.5	1873.3	1851.5	1801.7	1770.5	1677.3	1602.5	1568.3
32.5°	1823.4	1814.2	1786.1	1730.2	1711.5	1686.5	1624.4	1571.5	1527.9	1443.8	1403.5
35°	1705.2	1671.1	1611.9	1565.2	1549.6	1506.1	1456.2	1418.9	1372.3	1297.6	1244.7
37.5°	1527.9	1493.7	1437.6	1381.6	1381.6	1338.1	1269.6	1232.3	1166.9	1123.3	1079.8
40°	1372.3	1328.7	1272.8	1207.4	1198.0	1135.7	1107.8	1045.5	1005.0	936.7	930.4
42.5°	1198.0	1157.6	1107.8	1058.0	1020.7	989.6	918.0	871.3	827.8	793.5	784.1
45°	1039.3	986.4	942.9	880.6	843.3	806.0	759.3	728.2	693.9	656.6	634.8
47.5°	902.4	858.9	796.6	740.6	703.3	684.5	631.6	597.5	569.5	544.6	529.0
50°	762.4	709.5	675.3	613.0	606.8	563.2	519.7	491.7	476.1	454.4	432.5
52.5°	656.6	606.8	560.1	513.5	488.5	473.0	432.5	404.5	382.8	367.2	354.8
55°	553.8	510.3	473.0	426.3	410.7	389.0	342.3	336.1	314.3	292.5	277.0
57.5°	476.1	435.6	392.1	361.0	332.9	317.5	280.0	255.2	242.7	224.1	208.5
60°	404.5	361.0	326.7	289.4	277.0	255.2	227.1	205.4	189.8	174.2	158.7
62.5°	339.2	301.9	264.6	233.3	214.7	202.3	180.4	161.8	146.3	133.9	121.3
65°	280.0	245.8	214.7	183.6	174.2	158.7	143.1	127.6	115.1	99.6	87.2
67.5°	230.3	199.2	168.0	146.3	136.9	130.7	112.0	96.4	87.2	77.8	65.3
70°	180.4	158.7	133.9	115.1	105.8	96.4	84.0	74.7	62.2	56.0	46.7
72.5°	140.1	121.3	99.6	84.0	77.8	71.6	59.1	49.7	43.5	37.3	31.1
75°	99.6	84.0	71.6	56.0	52.9	49.7	40.5	34.3	28.0	21.8	18.7
77.5°	68.5	56.0	43.5	37.3	34.3	28.0	24.9	18.7	15.6	12.4	9.4
80°	37.3	28.0	21.8	18.7	15.6	12.4	12.4	9.4	6.2	6.2	3.2
82.5°	12.4	9.4	6.2	3.2	3.2	3.2	3.2	3.2	3.2	0.0	3.2
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°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	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 FEU4C559027 F4LC-SQLWW-H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2
2.5°	2592.1	2557.9	2567.2	2567.2	2561.0	2561.0	2554.8	2545.4	2548.6	2529.8	2489.5
5°	2564.1	2520.5	2514.3	2520.5	2495.7	2489.5	2477.0	2495.7	2439.6	2461.4	2436.5
7.5°	2483.2	2442.8	2433.4	2455.2	2424.1	2405.3	2402.3	2427.2	2377.4	2352.6	2324.5
10°	2392.9	2377.4	2349.4	2333.8	2324.5	2327.6	2302.7	2271.6	2262.2	2256.0	2231.1
12.5°	2312.1	2277.8	2252.9	2234.3	2228.1	2228.1	2187.6	2181.4	2153.3	2147.1	2109.8
15°	2215.5	2175.2	2159.6	2134.7	2112.9	2125.3	2078.6	2066.2	2056.9	2016.4	2022.7
17.5°	2131.5	2088.0	2050.7	2035.1	2016.4	1997.8	1954.1	1963.5	1941.7	1941.7	1885.7
20°	2022.7	1976.0	1947.9	1916.8	1916.8	1892.0	1860.9	1863.9	1835.9	1808.0	1758.1
22.5°	1907.6	1857.7	1823.4	1811.0	1779.9	1773.7	1736.4	1727.0	1689.7	1692.8	1649.2
25°	1786.1	1736.4	1689.7	1692.8	1664.8	1652.4	1630.6	1587.1	1571.5	1552.8	1540.4
27.5°	1643.0	1608.8	1568.3	1565.2	1512.3	1515.4	1487.5	1475.0	1437.6	1447.0	1418.9
30°	1512.3	1462.6	1425.2	1415.9	1394.1	1387.9	1344.3	1325.6	1331.9	1306.9	1291.4
32.5°	1378.5	1303.9	1288.3	1269.6	1257.2	1241.6	1210.5	1222.9	1194.9	1201.1	1176.2
35°	1201.1	1170.0	1129.5	1129.5	1117.1	1104.7	1083.0	1095.4	1067.3	1054.9	1030.0
37.5°	1051.7	1023.8	983.3	995.8	974.0	955.3	936.7	939.7	914.8	911.8	886.8
40°	890.0	874.4	846.4	846.4	830.8	830.8	821.4	812.2	796.6	777.9	749.9
42.5°	737.5	725.0	712.6	715.7	693.9	712.6	687.7	703.3	653.5	650.4	631.6
45°	625.4	597.5	600.5	588.1	575.7	581.9	560.1	566.3	538.4	532.1	513.5
47.5°	507.3	497.9	479.2	473.0	473.0	463.6	454.4	451.2	438.8	423.2	398.3
50°	416.9	382.8	376.5	367.2	361.0	361.0	348.5	329.9	332.9	317.5	292.5
52.5°	326.7	298.7	286.3	283.2	270.8	264.6	248.9	236.5	227.1	220.9	205.4
55°	252.0	227.1	211.6	211.6	193.0	193.0	171.2	161.8	149.3	136.9	127.6
57.5°	189.8	177.4	161.8	149.3	143.1	127.6	115.1	99.6	90.2	71.6	59.1
60°	143.1	130.7	115.1	105.8	99.6	84.0	68.5	56.0	34.3	28.0	24.9
62.5°	105.8	93.4	77.8	71.6	65.3	52.9	37.3	18.7	9.4	9.4	9.4
65°	77.8	62.2	49.7	43.5	37.3	28.0	12.4	6.2	3.2	3.2	3.2
67.5°	52.9	40.5	28.0	24.9	18.7	9.4	3.2	3.2	3.2	3.2	3.2
70°	34.3	24.9	12.4	9.4	6.2	3.2	3.2	3.2	3.2	3.2	3.2
72.5°	21.8	12.4	6.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	12.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.2	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	3.2	3.2	3.2
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-H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2
2.5°	2533.0	2511.2	2523.6	2495.7	2508.1	2529.8	2514.3	2520.5
5°	2445.8	2433.4	2417.9	2377.4	2408.5	2433.4	2420.9	2417.9
7.5°	2352.6	2308.9	2330.7	2318.3	2312.1	2336.9	2308.9	2340.0
10°	2256.0	2224.9	2221.9	2200.0	2200.0	2218.7	2221.9	2203.1
12.5°	2112.9	2097.4	2097.4	2094.2	2091.0	2109.8	2112.9	2103.6
15°	2010.2	2004.0	1988.4	1985.3	1966.7	1994.6	1997.8	1994.6
17.5°	1885.7	1888.8	1873.3	1873.3	1885.7	1895.0	1870.1	1895.0
20°	1801.7	1786.1	1779.9	1751.9	1767.5	1783.1	1783.1	1786.1
22.5°	1680.3	1655.5	1664.8	1649.2	1639.8	1661.7	1661.7	1671.1
25°	1543.4	1543.4	1549.6	1540.4	1546.6	1559.0	1549.6	1571.5
27.5°	1412.7	1425.2	1425.2	1412.7	1418.9	1456.2	1471.9	1447.0
30°	1291.4	1294.5	1303.9	1297.6	1316.3	1328.7	1325.6	1344.3
32.5°	1154.5	1170.0	1176.2	1166.9	1173.2	1201.1	1185.6	1182.4
35°	1048.7	1020.7	1017.6	1020.7	1033.1	1039.3	1033.1	1054.9
37.5°	896.2	886.8	874.4	877.5	886.8	899.4	905.6	921.1
40°	749.9	737.5	737.5	734.4	725.0	759.3	759.3	759.3
42.5°	622.4	619.2	603.7	603.7	616.1	625.4	619.2	641.0
45°	510.3	497.9	488.5	488.5	497.9	497.9	507.3	504.1
47.5°	401.5	389.0	392.1	382.8	392.1	404.5	389.0	392.1
50°	301.9	301.9	295.6	301.9	298.7	301.9	295.6	289.4
52.5°	205.4	233.3	236.5	224.1	196.0	171.2	155.6	168.0
55°	118.3	105.8	105.8	102.7	96.4	93.4	84.0	93.4
57.5°	59.1	52.9	52.9	52.9	49.7	46.7	40.5	40.5
60°	24.9	21.8	21.8	18.7	15.6	12.4	9.4	12.4
62.5°	9.4	6.2	6.2	6.2	6.2	6.2	6.2	6.2
65°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
67.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
70°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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)