

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: **FLDSQ4C40D010 FEU4C409040 F4LC-SQLWW-LI**

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: FLDSQ4C40D010 FEU4C409040 F4LC-SQLWW-LI  
 Description: 4 INCH 4000 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND F4LC-SQLWW TRIM WITH LI FINISH  
 Light Source: -  
 Ballast/Driver: -

**Summary**

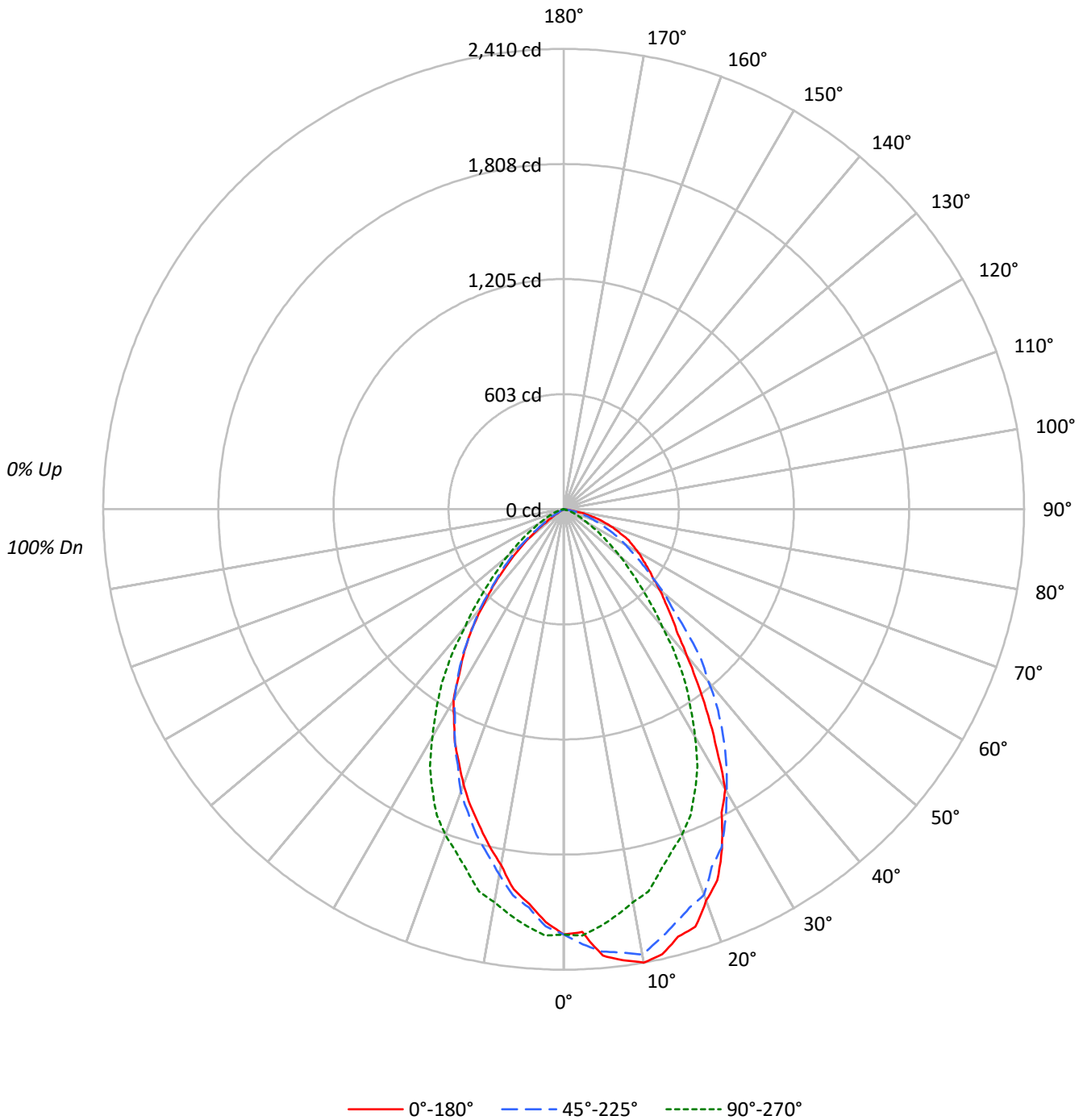
Lumens per Lamp: N/A  
 Luminaire Lumens: 3190.0 lumens  
 Efficiency: N/A  
 Efficacy: 67.9 lumens/watt  
 Spacing Criteria (0/90/45): 1.01 / 1 / 1.06  
 Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
 CIE Type: Direct

Input Watts (W): 47  
 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: FLDSQ4C40D010 FEU4C409040 F4LC-SQLWW-LI

### Luminous Intensity Polar Plot



TEST NUMBER: P#

CATALOG NUMBER: FLDSQ4C40D010 FEU4C409040 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	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°	214726	214726	214726
5°	227179	212195	200824
10°	236086	204714	185099
15°	231371	195380	170856
20°	223856	186038	157277
25°	208807	173004	143471
30°	188493	153108	128440
35°	155272	131078	106554
40°	126713	101169	82011
45°	108878	76838	58990
50°	98532	58483	37257
55°	90672	42190	13475
60°	87033	28831	2065
65°	84065	19498	616
70°	75268	13542	762
75°	61699	6971	0
80°	38563	2945	0
85°	0	0	0

TEST NUMBER: P#  
 CATALOG NUMBER: FLDSQ4C40D010 FEU4C409040 F4LC-SQLWW-LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.5	6.5
10°-20°	561.8	17.6
20°-30°	750.1	23.5
30°-40°	712.1	22.3
40°-50°	492.2	15.4
50°-60°	272.0	8.5
60°-70°	135.0	4.2
70°-80°	53.2	1.7
80°-90°	5.1	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°	1520.4	47.7
0°-40°	2232.5	70.0
0°-60°	2996.7	93.9
0°-90°	3190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3190.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2225	2225	2225	2225	2225	
5°	2346	2324	2191	2092	2073	225
15°	2316	2247	1956	1764	1710	655
25°	1961	1953	1625	1348	1348	894
35°	1318	1457	1113	915	905	826
45°	798	915	563	462	432	622
55°	539	507	251	128	80	485
65°	368	267	85	3	3	357
75°	166	101	19	0	0	176
85°	0	3	0	0	0	15
90°	0	0	0	0	0	

TEST NUMBER: P#  
 CATALOG NUMBER: FLDSQ4C40D010 FEU4C409040 F4LC-SQLWW-LI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2225.4	2225.4	2225.4	2225.4	2225.4	2225.4	2225.4	2225.4	2225.4	2225.4	2225.4
2.5°	2214.8	2276.1	2281.5	2276.1	2284.2	2281.5	2294.8	2281.5	2297.6	2273.5	2278.8
5°	2345.5	2321.5	2372.2	2345.5	2345.5	2342.9	2334.9	2332.2	2342.9	2308.2	2324.2
7.5°	2380.2	2415.0	2460.3	2404.3	2406.9	2406.9	2390.9	2385.6	2385.6	2321.5	2340.2
10°	2409.6	2388.2	2412.2	2390.9	2409.6	2406.9	2417.6	2382.9	2406.9	2369.6	2366.9
12.5°	2385.6	2377.5	2409.6	2374.9	2364.3	2366.9	2353.6	2345.5	2353.6	2310.8	2308.2
15°	2316.2	2324.2	2372.2	2334.9	2329.5	2324.2	2308.2	2281.5	2302.9	2244.1	2246.8
17.5°	2292.2	2278.8	2286.9	2254.8	2262.8	2257.5	2254.8	2230.9	2225.4	2188.1	2188.1
20°	2180.1	2209.4	2209.4	2188.1	2188.1	2185.5	2150.8	2172.1	2148.1	2137.4	2148.1
22.5°	2102.7	2105.4	2105.4	2086.7	2089.4	2078.7	2060.0	2046.6	2060.0	2046.6	2025.3
25°	1961.3	1966.7	1998.7	1964.0	1958.6	1969.3	1953.3	1945.2	1942.6	1910.6	1953.3
27.5°	1790.5	1843.8	1841.2	1827.8	1843.8	1822.5	1814.6	1817.2	1825.2	1822.5	1833.2
30°	1691.8	1699.8	1707.8	1697.2	1699.8	1691.8	1691.8	1694.4	1715.8	1707.8	1705.1
32.5°	1491.6	1518.3	1539.7	1539.7	1542.3	1550.4	1547.7	1603.7	1617.1	1590.4	1585.1
35°	1318.2	1336.9	1355.5	1358.2	1392.9	1395.6	1398.3	1414.3	1451.6	1459.6	1456.9
37.5°	1152.8	1171.4	1176.7	1200.8	1219.5	1238.1	1259.5	1280.9	1312.9	1339.5	1326.2
40°	1006.0	1014.0	1027.3	1038.0	1075.3	1075.3	1086.0	1128.8	1163.5	1184.8	1182.1
42.5°	883.3	885.9	896.6	915.3	950.0	941.9	950.0	979.4	1030.0	1032.7	1062.1
45°	797.9	795.2	803.2	805.8	827.3	837.9	843.2	864.6	907.2	912.6	915.3
47.5°	720.5	717.8	731.2	736.5	744.5	755.1	755.1	757.8	773.8	787.2	776.5
50°	656.4	656.4	656.4	661.8	675.1	672.4	675.1	685.8	693.8	688.4	685.8
52.5°	587.0	597.7	605.7	608.4	611.1	611.1	613.8	608.4	605.7	597.7	581.7
55°	539.0	549.7	549.7	549.7	549.7	560.4	547.1	549.7	549.7	528.4	507.0
57.5°	491.0	501.7	509.6	499.0	509.6	499.0	493.7	491.0	485.6	464.3	432.3
60°	451.0	456.3	453.6	451.0	456.3	448.3	443.0	432.3	427.0	397.6	376.3
62.5°	405.6	408.2	411.0	405.6	400.3	397.6	386.9	370.9	360.3	336.2	317.5
65°	368.2	360.3	357.5	354.9	349.6	341.5	333.6	314.9	306.8	285.5	266.8
67.5°	312.2	309.6	314.9	306.8	293.6	293.6	285.5	269.5	250.8	237.5	218.8
70°	266.8	264.2	258.8	250.8	248.2	237.5	237.5	218.8	213.5	189.4	173.4
72.5°	218.8	218.8	210.8	202.8	194.8	189.4	186.8	173.4	165.5	152.1	138.7
75°	165.5	165.5	162.8	154.7	149.4	144.1	141.4	130.8	122.7	109.5	101.4
77.5°	117.4	117.4	106.7	101.4	104.0	98.7	93.4	90.7	88.0	80.1	69.4
80°	69.4	66.7	58.8	61.4	58.8	58.8	56.0	53.3	48.0	42.7	37.3
82.5°	18.7	21.3	21.3	21.3	24.0	18.7	18.7	18.7	21.3	21.3	13.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	2.7
87.5°	2.7	5.3	10.7	10.7	10.7	10.7	10.7	8.0	8.0	8.0	5.3
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: FLDSQ4C40D010 FEU4C409040 F4LC-SQLWW-LI

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2225.4	2225.4	2225.4	2225.4	2225.4	2225.4	2225.4	2225.4	2225.4	2225.4	2225.4
2.5°	2252.2	2249.5	2252.2	2233.5	2276.1	2244.1	2238.8	2233.5	2252.2	2233.5	2206.8
5°	2300.2	2273.5	2265.5	2257.5	2281.5	2244.1	2236.2	2238.8	2225.4	2190.8	2193.4
7.5°	2316.2	2292.2	2268.2	2217.5	2238.8	2230.9	2209.4	2193.4	2172.1	2142.7	2137.4
10°	2321.5	2294.8	2260.1	2244.1	2212.1	2201.5	2193.4	2166.8	2140.1	2089.4	2076.0
12.5°	2305.5	2273.5	2230.9	2217.5	2193.4	2158.7	2140.1	2113.3	2089.4	2049.4	2020.0
15°	2236.2	2209.4	2196.1	2150.8	2140.1	2118.7	2081.4	2044.0	2009.3	1955.9	1939.9
17.5°	2156.1	2145.4	2132.1	2097.4	2094.7	2073.4	2038.7	2006.6	1961.3	1878.5	1851.9
20°	2073.4	2073.4	2030.7	2017.4	2044.0	2001.3	1974.6	1945.2	1851.9	1811.8	1763.9
22.5°	2012.0	1982.7	1958.6	1937.3	1939.9	1913.3	1875.9	1817.2	1782.5	1734.5	1678.4
25°	1891.9	1902.6	1849.3	1841.2	1849.3	1787.8	1769.2	1721.1	1670.4	1625.0	1582.4
27.5°	1817.2	1787.8	1753.2	1723.8	1723.8	1699.8	1646.5	1635.8	1558.3	1515.7	1462.2
30°	1705.1	1683.8	1654.4	1611.7	1606.4	1587.7	1545.0	1518.3	1438.3	1374.2	1344.8
32.5°	1563.7	1555.7	1531.7	1483.7	1467.7	1446.3	1392.9	1347.6	1310.2	1238.1	1203.5
35°	1462.2	1433.0	1382.3	1342.2	1328.9	1291.5	1248.8	1216.8	1176.7	1112.8	1067.4
37.5°	1310.2	1280.9	1232.8	1184.8	1184.8	1147.5	1088.7	1056.7	1000.7	963.3	925.9
40°	1176.7	1139.4	1091.4	1035.4	1027.3	973.9	950.0	896.6	861.9	803.2	797.9
42.5°	1027.3	992.6	950.0	907.2	875.2	848.6	787.2	747.2	709.9	680.5	672.4
45°	891.2	845.9	808.5	755.1	723.1	691.1	651.1	624.4	595.1	563.1	544.4
47.5°	773.8	736.5	683.1	635.1	603.1	587.0	541.6	512.4	488.3	467.0	453.6
50°	653.8	608.4	579.1	525.6	520.3	483.0	445.7	421.6	408.2	389.6	370.9
52.5°	563.1	520.3	480.3	440.3	418.9	405.6	370.9	346.9	328.3	314.9	304.2
55°	474.9	437.6	405.6	365.6	352.2	333.6	293.6	288.2	269.5	250.8	237.5
57.5°	408.2	373.5	336.2	309.6	285.5	272.2	240.1	218.8	208.1	192.2	178.8
60°	346.9	309.6	280.2	248.2	237.5	218.8	194.8	176.2	162.8	149.4	136.1
62.5°	290.8	258.8	226.9	200.1	184.1	173.4	154.7	138.7	125.5	114.8	104.0
65°	240.1	210.8	184.1	157.4	149.4	136.1	122.7	109.5	98.7	85.4	74.7
67.5°	197.5	170.8	144.1	125.5	117.4	112.1	96.1	82.7	74.7	66.7	56.0
70°	154.7	136.1	114.8	98.7	90.7	82.7	72.0	64.1	53.3	48.0	40.0
72.5°	120.1	104.0	85.4	72.0	66.7	61.4	50.7	42.7	37.3	32.0	26.7
75°	85.4	72.0	61.4	48.0	45.4	42.7	34.7	29.4	24.0	18.7	16.0
77.5°	58.8	48.0	37.3	32.0	29.4	24.0	21.3	16.0	13.4	10.7	8.0
80°	32.0	24.0	18.7	16.0	13.4	10.7	10.7	8.0	5.3	5.3	2.7
82.5°	10.7	8.0	5.3	2.7	2.7	2.7	2.7	2.7	2.7	0.0	2.7
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°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	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: FLDSQ4C40D010 FEU4C409040 F4LC-SQLWW-LI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2225.4	2225.4	2225.4	2225.4	2225.4	2225.4	2225.4	2225.4	2225.4	2225.4	2225.4
2.5°	2222.8	2193.4	2201.5	2201.5	2196.1	2196.1	2190.8	2182.8	2185.5	2169.4	2134.8
5°	2198.8	2161.4	2156.1	2161.4	2140.1	2134.8	2124.1	2140.1	2092.0	2110.7	2089.4
7.5°	2129.4	2094.7	2086.7	2105.4	2078.7	2062.6	2060.0	2081.4	2038.7	2017.4	1993.3
10°	2052.0	2038.7	2014.7	2001.3	1993.3	1995.9	1974.6	1948.0	1939.9	1934.6	1913.3
12.5°	1982.7	1953.3	1932.0	1916.0	1910.6	1910.6	1875.9	1870.6	1846.6	1841.2	1809.2
15°	1899.9	1865.3	1851.9	1830.6	1811.8	1822.5	1782.5	1771.8	1763.9	1729.1	1734.5
17.5°	1827.8	1790.5	1758.5	1745.1	1729.1	1713.2	1675.7	1683.8	1665.1	1665.1	1617.1
20°	1734.5	1694.4	1670.4	1643.7	1643.7	1622.4	1595.8	1598.4	1574.3	1550.4	1507.6
22.5°	1635.8	1593.0	1563.7	1553.0	1526.3	1521.0	1489.0	1481.0	1449.0	1451.6	1414.3
25°	1531.7	1489.0	1449.0	1451.6	1427.6	1417.0	1398.3	1360.9	1347.6	1331.6	1320.9
27.5°	1408.9	1379.6	1344.8	1342.2	1296.9	1299.5	1275.5	1264.9	1232.8	1240.8	1216.8
30°	1296.9	1254.2	1222.1	1214.2	1195.5	1190.1	1152.8	1136.7	1142.1	1120.7	1107.4
32.5°	1182.1	1118.1	1104.7	1088.7	1078.1	1064.7	1038.0	1048.7	1024.6	1030.0	1008.6
35°	1030.0	1003.3	968.6	968.6	957.9	947.3	928.7	939.3	915.3	904.6	883.3
37.5°	901.9	878.0	843.2	853.9	835.2	819.2	803.2	805.8	784.5	781.9	760.4
40°	763.2	749.8	725.8	725.8	712.5	712.5	704.4	696.5	683.1	667.1	643.0
42.5°	632.4	621.7	611.1	613.8	595.1	611.1	589.7	603.1	560.4	557.7	541.6
45°	536.3	512.4	515.0	504.3	493.7	499.0	480.3	485.6	461.7	456.3	440.3
47.5°	435.0	427.0	411.0	405.6	405.6	397.6	389.6	386.9	376.3	362.9	341.5
50°	357.5	328.3	322.8	314.9	309.6	309.6	298.9	282.9	285.5	272.2	250.8
52.5°	280.2	256.1	245.5	242.9	232.2	226.9	213.5	202.8	194.8	189.4	176.2
55°	216.1	194.8	181.5	181.5	165.5	165.5	146.8	138.7	128.1	117.4	109.5
57.5°	162.8	152.1	138.7	128.1	122.7	109.5	98.7	85.4	77.4	61.4	50.7
60°	122.7	112.1	98.7	90.7	85.4	72.0	58.8	48.0	29.4	24.0	21.3
62.5°	90.7	80.1	66.7	61.4	56.0	45.4	32.0	16.0	8.0	8.0	8.0
65°	66.7	53.3	42.7	37.3	32.0	24.0	10.7	5.3	2.7	2.7	2.7
67.5°	45.4	34.7	24.0	21.3	16.0	8.0	2.7	2.7	2.7	2.7	2.7
70°	29.4	21.3	10.7	8.0	5.3	2.7	2.7	2.7	2.7	2.7	2.7
72.5°	18.7	10.7	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	10.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.7	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	2.7	2.7	2.7
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: FLDSQ4C40D010 FEU4C409040 F4LC-SQLWW-LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2225.4	2225.4	2225.4	2225.4	2225.4	2225.4	2225.4	2225.4
2.5°	2172.1	2153.4	2164.0	2140.1	2150.8	2169.4	2156.1	2161.4
5°	2097.4	2086.7	2073.4	2038.7	2065.4	2086.7	2076.0	2073.4
7.5°	2017.4	1979.9	1998.7	1988.0	1982.7	2004.0	1979.9	2006.6
10°	1934.6	1907.9	1905.3	1886.6	1886.6	1902.6	1905.3	1889.2
12.5°	1811.8	1798.6	1798.6	1795.8	1793.1	1809.2	1811.8	1803.9
15°	1723.8	1718.5	1705.1	1702.5	1686.5	1710.4	1713.2	1710.4
17.5°	1617.1	1619.7	1606.4	1606.4	1617.1	1625.0	1603.7	1625.0
20°	1545.0	1531.7	1526.3	1502.3	1515.7	1529.1	1529.1	1531.7
22.5°	1440.9	1419.6	1427.6	1414.3	1406.2	1424.9	1424.9	1433.0
25°	1323.5	1323.5	1328.9	1320.9	1326.2	1336.9	1328.9	1347.6
27.5°	1211.4	1222.1	1222.1	1211.4	1216.8	1248.8	1262.2	1240.8
30°	1107.4	1110.0	1118.1	1112.8	1128.8	1139.4	1136.7	1152.8
32.5°	990.0	1003.3	1008.6	1000.7	1006.0	1030.0	1016.7	1014.0
35°	899.3	875.2	872.6	875.2	885.9	891.2	885.9	904.6
37.5°	768.5	760.4	749.8	752.5	760.4	771.2	776.5	789.8
40°	643.0	632.4	632.4	629.8	621.7	651.1	651.1	651.1
42.5°	533.7	531.0	517.7	517.7	528.4	536.3	531.0	549.7
45°	437.6	427.0	418.9	418.9	427.0	427.0	435.0	432.3
47.5°	344.3	333.6	336.2	328.3	336.2	346.9	333.6	336.2
50°	258.8	258.8	253.5	258.8	256.1	258.8	253.5	248.2
52.5°	176.2	200.1	202.8	192.2	168.1	146.8	133.4	144.1
55°	101.4	90.7	90.7	88.0	82.7	80.1	72.0	80.1
57.5°	50.7	45.4	45.4	45.4	42.7	40.0	34.7	34.7
60°	21.3	18.7	18.7	16.0	13.4	10.7	8.0	10.7
62.5°	8.0	5.3	5.3	5.3	5.3	5.3	5.3	5.3
65°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
67.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
70°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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)