

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: **FLDSQ4C75D010 FEU4C759027 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: FLDSQ4C75D010 FEU4C759027 F4LC-SQLWW-H  
 Description: 4 INCH 7500 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND F4LC-SQLWW TRIM WITH H FINISH  
 Light Source: -  
 Ballast/Driver: -

**Summary**

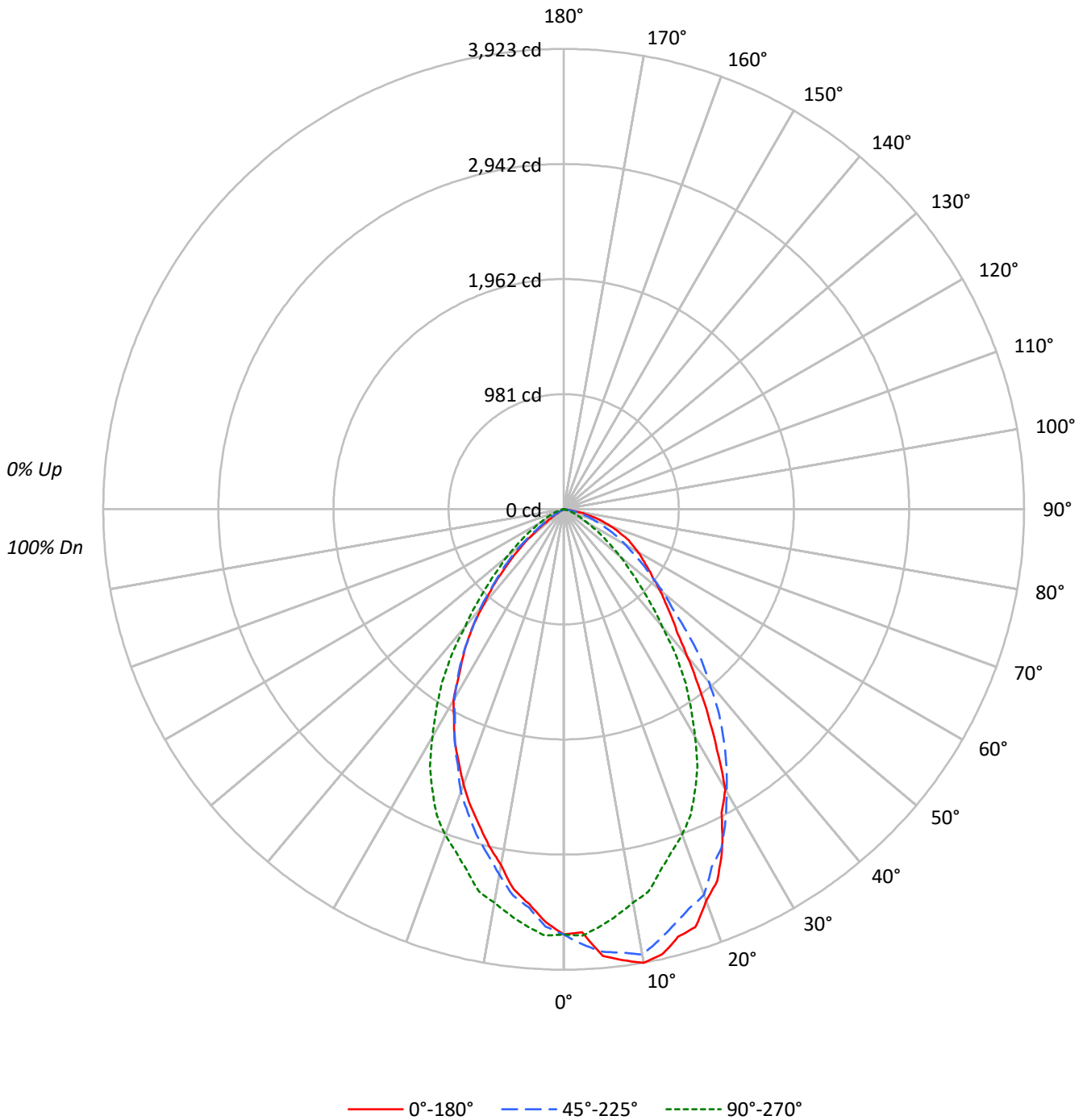
Lumens per Lamp: N/A  
 Luminaire Lumens: 5194.0 lumens  
 Efficiency: N/A  
 Efficacy: 63.7 lumens/watt  
 Spacing Criteria (0/90/45): 1.01 / 1 / 1.06  
 Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
 CIE Type: Direct

Input Watts (W): 81.5  
 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



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**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°	349628	349628	349628
5°	369899	345500	326991
10°	384404	333319	301378
15°	376715	318118	278201
20°	364488	302920	256077
25°	339992	281692	233592
30°	306917	249293	209127
35°	252815	213414	173495
40°	206318	164727	133527
45°	177270	125103	96051
50°	160438	95230	60659
55°	147633	68702	21936
60°	141704	46932	3358
65°	136873	31758	1005
70°	122551	22033	1241
75°	100471	11371	0
80°	62789	4834	0
85°	0	0	0

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.5	6.5
10°-20°	914.7	17.6
20°-30°	1221.4	23.5
30°-40°	1159.4	22.3
40°-50°	801.4	15.4
50°-60°	442.8	8.5
60°-70°	219.9	4.2
70°-80°	86.6	1.7
80°-90°	8.2	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°	2475.5	47.7
0°-40°	3635.0	70.0
0°-60°	4879.2	93.9
0°-90°	5194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5194.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3624	3624	3624	3624	3624	
5°	3819	3784	3567	3406	3376	366
15°	3771	3658	3185	2872	2785	1067
25°	3194	3180	2646	2194	2194	1456
35°	2146	2372	1812	1490	1473	1345
45°	1299	1490	917	752	704	1013
55°	878	826	408	208	130	790
65°	600	434	139	4	4	582
75°	270	165	30	0	0	287
85°	0	4	0	0	0	25
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°	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5
2.5°	3606.1	3706.0	3714.7	3706.0	3719.1	3714.7	3736.5	3714.7	3740.9	3701.8	3710.4
5°	3819.0	3779.9	3862.4	3819.0	3819.0	3814.8	3801.7	3797.2	3814.8	3758.3	3784.3
7.5°	3875.5	3932.1	4005.9	3914.7	3919.0	3919.0	3892.9	3884.2	3884.2	3779.9	3810.4
10°	3923.4	3888.5	3927.6	3892.9	3923.4	3919.0	3936.3	3879.8	3919.0	3858.2	3853.8
12.5°	3884.2	3871.1	3923.4	3866.9	3849.5	3853.8	3832.1	3819.0	3832.1	3762.5	3758.3
15°	3771.2	3784.3	3862.4	3801.7	3793.0	3784.3	3758.3	3714.7	3749.6	3653.9	3658.3
17.5°	3732.2	3710.4	3723.5	3671.3	3684.4	3675.7	3671.3	3632.3	3623.5	3562.7	3562.7
20°	3549.7	3597.4	3597.4	3562.7	3562.7	3558.4	3501.9	3536.6	3497.5	3480.1	3497.5
22.5°	3423.6	3428.0	3428.0	3397.6	3402.0	3384.6	3354.2	3332.4	3354.2	3332.4	3297.7
25°	3193.5	3202.2	3254.2	3197.7	3189.1	3206.4	3180.4	3167.3	3163.0	3110.9	3180.4
27.5°	2915.3	3002.2	2997.9	2976.1	3002.2	2967.4	2954.5	2958.7	2971.9	2967.4	2984.8
30°	2754.7	2767.6	2780.7	2763.3	2767.6	2754.7	2754.7	2758.9	2793.6	2780.7	2776.3
32.5°	2428.7	2472.1	2507.0	2507.0	2511.2	2524.3	2519.9	2611.2	2632.9	2589.5	2580.9
35°	2146.3	2176.8	2207.1	2211.5	2268.0	2272.3	2276.7	2302.7	2363.5	2376.6	2372.2
37.5°	1877.0	1907.3	1916.0	1955.1	1985.6	2015.9	2050.8	2085.5	2137.6	2181.0	2159.4
40°	1638.0	1651.0	1672.7	1690.1	1750.9	1750.9	1768.2	1837.9	1894.4	1929.1	1924.7
42.5°	1438.2	1442.4	1459.8	1490.3	1546.8	1533.7	1546.8	1594.6	1677.0	1681.4	1729.3
45°	1299.1	1294.7	1307.8	1312.0	1346.9	1364.3	1373.0	1407.7	1477.2	1485.8	1490.3
47.5°	1173.1	1168.7	1190.5	1199.2	1212.1	1229.5	1229.5	1233.9	1260.0	1281.7	1264.4
50°	1068.8	1068.8	1068.8	1077.5	1099.3	1094.8	1099.3	1116.6	1129.6	1120.9	1116.6
52.5°	955.8	973.1	986.2	990.7	994.9	994.9	999.4	990.7	986.2	973.1	947.1
55°	877.6	895.0	895.0	895.0	895.0	912.4	890.8	895.0	895.0	860.3	825.6
57.5°	799.5	816.9	829.8	812.5	829.8	812.5	803.8	799.5	790.7	755.9	703.9
60°	734.3	743.0	738.6	734.3	743.0	729.9	721.2	703.9	695.2	647.3	612.6
62.5°	660.4	664.7	669.1	660.4	651.8	647.3	630.0	603.9	586.6	547.4	517.0
65°	599.5	586.6	582.1	577.9	569.2	556.1	543.2	512.7	499.6	464.9	434.4
67.5°	508.3	504.0	512.7	499.6	478.0	478.0	464.9	438.8	408.4	386.7	356.3
70°	434.4	430.1	421.5	408.4	404.1	386.7	386.7	356.3	347.6	308.4	282.4
72.5°	356.3	356.3	343.2	330.2	317.1	308.4	304.2	282.4	269.5	247.7	225.9
75°	269.5	269.5	265.0	251.9	243.2	234.6	230.3	212.9	199.8	178.2	165.1
77.5°	191.2	191.2	173.8	165.1	169.4	160.7	152.0	147.8	143.3	130.4	113.0
80°	113.0	108.6	95.7	99.9	95.7	95.7	91.2	86.8	78.1	69.4	60.8
82.5°	30.5	34.7	34.7	34.7	39.2	30.5	30.5	30.5	34.7	34.7	21.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4	4.4
87.5°	4.4	8.7	17.4	17.4	17.4	17.4	17.4	13.1	13.1	13.1	8.7
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°	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5
2.5°	3667.0	3662.6	3667.0	3636.6	3706.0	3653.9	3645.2	3636.6	3667.0	3636.6	3593.2
5°	3745.2	3701.8	3688.6	3675.7	3714.7	3653.9	3641.0	3645.2	3623.5	3567.1	3571.4
7.5°	3771.2	3732.2	3693.1	3610.5	3645.2	3632.3	3597.4	3571.4	3536.6	3488.8	3480.1
10°	3779.9	3736.5	3680.0	3653.9	3601.8	3584.5	3571.4	3528.0	3484.6	3402.0	3380.2
12.5°	3753.8	3701.8	3632.3	3610.5	3571.4	3514.9	3484.6	3441.0	3402.0	3336.8	3289.0
15°	3641.0	3597.4	3575.8	3501.9	3484.6	3449.7	3388.9	3328.1	3271.6	3184.6	3158.6
17.5°	3510.6	3493.2	3471.4	3414.9	3410.7	3376.0	3319.4	3267.2	3193.5	3058.7	3015.3
20°	3376.0	3376.0	3306.3	3284.7	3328.1	3258.5	3215.1	3167.3	3015.3	2950.1	2871.9
22.5°	3276.0	3228.2	3189.1	3154.3	3158.6	3115.2	3054.4	2958.7	2902.2	2824.1	2732.9
25°	3080.5	3097.8	3011.0	2997.9	3011.0	2910.9	2880.6	2802.3	2719.8	2645.9	2576.4
27.5°	2958.7	2910.9	2854.6	2806.7	2806.7	2767.6	2680.8	2663.4	2537.3	2467.8	2380.9
30°	2776.3	2741.5	2693.7	2624.3	2615.6	2585.1	2515.7	2472.1	2341.9	2237.5	2189.7
32.5°	2546.0	2533.0	2493.9	2415.7	2389.7	2354.8	2268.0	2194.1	2133.4	2015.9	1959.6
35°	2380.9	2333.2	2250.6	2185.4	2163.7	2102.9	2033.3	1981.2	1916.0	1811.8	1737.9
37.5°	2133.4	2085.5	2007.2	1929.1	1929.1	1868.3	1772.7	1720.6	1629.3	1568.4	1507.6
40°	1916.0	1855.2	1777.1	1685.8	1672.7	1585.8	1546.8	1459.8	1403.3	1307.8	1299.1
42.5°	1672.7	1616.2	1546.8	1477.2	1425.1	1381.7	1281.7	1216.6	1155.8	1108.0	1094.8
45°	1451.1	1377.2	1316.5	1229.5	1177.4	1125.3	1060.1	1016.7	968.9	916.8	886.3
47.5°	1260.0	1199.2	1112.2	1034.1	982.0	955.8	881.9	834.2	795.1	760.4	738.6
50°	1064.6	990.7	942.8	855.9	847.2	786.4	725.6	686.5	664.7	634.4	603.9
52.5°	916.8	847.2	782.0	717.0	682.1	660.4	603.9	564.8	534.5	512.7	495.3
55°	773.3	712.5	660.4	595.3	573.5	543.2	478.0	469.3	438.8	408.4	386.7
57.5°	664.7	608.2	547.4	504.0	464.9	443.3	391.0	356.3	338.9	312.9	291.1
60°	564.8	504.0	456.2	404.1	386.7	356.3	317.1	286.8	265.0	243.2	221.6
62.5°	473.5	421.5	369.4	325.8	299.8	282.4	251.9	225.9	204.3	186.9	169.4
65°	391.0	343.2	299.8	256.3	243.2	221.6	199.8	178.2	160.7	139.1	121.7
67.5°	321.5	278.1	234.6	204.3	191.2	182.5	156.4	134.6	121.7	108.6	91.2
70°	251.9	221.6	186.9	160.7	147.8	134.6	117.3	104.3	86.8	78.1	65.2
72.5°	195.6	169.4	139.1	117.3	108.6	99.9	82.6	69.4	60.8	52.1	43.4
75°	139.1	117.3	99.9	78.1	73.9	69.4	56.5	47.8	39.2	30.5	26.0
77.5°	95.7	78.1	60.8	52.1	47.8	39.2	34.7	26.0	21.8	17.4	13.1
80°	52.1	39.2	30.5	26.0	21.8	17.4	17.4	13.1	8.7	8.7	4.4
82.5°	17.4	13.1	8.7	4.4	4.4	4.4	4.4	4.4	4.4	0.0	4.4
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°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5
2.5°	3619.2	3571.4	3584.5	3584.5	3575.8	3575.8	3567.1	3554.0	3558.4	3532.2	3475.9
5°	3580.0	3519.3	3510.6	3519.3	3484.6	3475.9	3458.5	3484.6	3406.3	3436.7	3402.0
7.5°	3467.2	3410.7	3397.6	3428.0	3384.6	3358.4	3354.2	3388.9	3319.4	3284.7	3245.6
10°	3341.1	3319.4	3280.3	3258.5	3245.6	3249.8	3215.1	3171.7	3158.6	3149.9	3115.2
12.5°	3228.2	3180.4	3145.6	3119.6	3110.9	3110.9	3054.4	3045.7	3006.6	2997.9	2945.8
15°	3093.4	3037.0	3015.3	2980.5	2950.1	2967.4	2902.2	2884.9	2871.9	2815.4	2824.1
17.5°	2976.1	2915.3	2863.3	2841.5	2815.4	2789.4	2728.4	2741.5	2711.1	2711.1	2632.9
20°	2824.1	2758.9	2719.8	2676.4	2676.4	2641.6	2598.2	2602.5	2563.3	2524.3	2454.7
22.5°	2663.4	2593.8	2546.0	2528.6	2485.2	2476.5	2424.4	2411.3	2359.2	2363.5	2302.7
25°	2493.9	2424.4	2359.2	2363.5	2324.5	2307.1	2276.7	2215.9	2194.1	2168.1	2150.7
27.5°	2294.0	2246.2	2189.7	2185.4	2111.6	2115.8	2076.8	2059.5	2007.2	2020.3	1981.2
30°	2111.6	2042.1	1989.9	1976.9	1946.5	1937.8	1877.0	1850.8	1859.6	1824.7	1803.1
32.5°	1924.7	1820.5	1798.7	1772.7	1755.3	1733.5	1690.1	1707.5	1668.3	1677.0	1642.3
35°	1677.0	1633.6	1577.1	1577.1	1559.7	1542.4	1512.1	1529.4	1490.3	1472.9	1438.2
37.5°	1468.5	1429.5	1373.0	1390.3	1359.9	1333.8	1307.8	1312.0	1277.3	1273.1	1238.2
40°	1242.6	1220.8	1181.8	1181.8	1160.0	1160.0	1146.9	1134.0	1112.2	1086.2	1047.0
42.5°	1029.7	1012.3	994.9	999.4	968.9	994.9	960.2	982.0	912.4	908.1	881.9
45°	873.2	834.2	838.5	821.1	803.8	812.5	782.0	790.7	751.7	743.0	717.0
47.5°	708.3	695.2	669.1	660.4	660.4	647.3	634.4	630.0	612.6	590.8	556.1
50°	582.1	534.5	525.6	512.7	504.0	504.0	486.7	460.6	464.9	443.3	408.4
52.5°	456.2	417.0	399.7	395.4	378.1	369.4	347.6	330.2	317.1	308.4	286.8
55°	351.8	317.1	295.5	295.5	269.5	269.5	239.0	225.9	208.5	191.2	178.2
57.5°	265.0	247.7	225.9	208.5	199.8	178.2	160.7	139.1	126.0	99.9	82.6
60°	199.8	182.5	160.7	147.8	139.1	117.3	95.7	78.1	47.8	39.2	34.7
62.5°	147.8	130.4	108.6	99.9	91.2	73.9	52.1	26.0	13.1	13.1	13.1
65°	108.6	86.8	69.4	60.8	52.1	39.2	17.4	8.7	4.4	4.4	4.4
67.5°	73.9	56.5	39.2	34.7	26.0	13.1	4.4	4.4	4.4	4.4	4.4
70°	47.8	34.7	17.4	13.1	8.7	4.4	4.4	4.4	4.4	4.4	4.4
72.5°	30.5	17.4	8.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	17.4	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.4	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	4.4	4.4	4.4
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: FLDSQ4C75D010 FEU4C759027 F4LC-SQLWW-H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5	3623.5
2.5°	3536.6	3506.2	3523.5	3484.6	3501.9	3532.2	3510.6	3519.3
5°	3414.9	3397.6	3376.0	3319.4	3362.8	3397.6	3380.2	3376.0
7.5°	3284.7	3223.8	3254.2	3236.9	3228.2	3262.9	3223.8	3267.2
10°	3149.9	3106.5	3102.2	3071.8	3071.8	3097.8	3102.2	3076.0
12.5°	2950.1	2928.4	2928.4	2924.0	2919.6	2945.8	2950.1	2937.1
15°	2806.7	2798.1	2776.3	2772.0	2746.0	2785.0	2789.4	2785.0
17.5°	2632.9	2637.2	2615.6	2615.6	2632.9	2645.9	2611.2	2645.9
20°	2515.7	2493.9	2485.2	2446.0	2467.8	2489.6	2489.6	2493.9
22.5°	2346.1	2311.4	2324.5	2302.7	2289.6	2320.1	2320.1	2333.2
25°	2155.0	2155.0	2163.7	2150.7	2159.4	2176.8	2163.7	2194.1
27.5°	1972.5	1989.9	1989.9	1972.5	1981.2	2033.3	2055.1	2020.3
30°	1803.1	1807.4	1820.5	1811.8	1837.9	1855.2	1850.8	1877.0
32.5°	1612.0	1633.6	1642.3	1629.3	1638.0	1677.0	1655.4	1651.0
35°	1464.2	1425.1	1420.8	1425.1	1442.4	1451.1	1442.4	1472.9
37.5°	1251.3	1238.2	1220.8	1225.2	1238.2	1255.7	1264.4	1286.0
40°	1047.0	1029.7	1029.7	1025.4	1012.3	1060.1	1060.1	1060.1
42.5°	869.0	864.5	842.9	842.9	860.3	873.2	864.5	895.0
45°	712.5	695.2	682.1	682.1	695.2	695.2	708.3	703.9
47.5°	560.5	543.2	547.4	534.5	547.4	564.8	543.2	547.4
50°	421.5	421.5	412.8	421.5	417.0	421.5	412.8	404.1
52.5°	286.8	325.8	330.2	312.9	273.7	239.0	217.2	234.6
55°	165.1	147.8	147.8	143.3	134.6	130.4	117.3	130.4
57.5°	82.6	73.9	73.9	73.9	69.4	65.2	56.5	56.5
60°	34.7	30.5	30.5	26.0	21.8	17.4	13.1	17.4
62.5°	13.1	8.7	8.7	8.7	8.7	8.7	8.7	8.7
65°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
67.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
70°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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)