

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: **FLDSQ4C60D010 FEU4C609040 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: FLDSQ4C60D010 FEU4C609040 F4LC-SQLWW-LI  
 Description: 4 INCH 6000 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND F4LC-SQLWW TRIM WITH LI FINISH  
 Light Source: -  
 Ballast/Driver: -

**Summary**

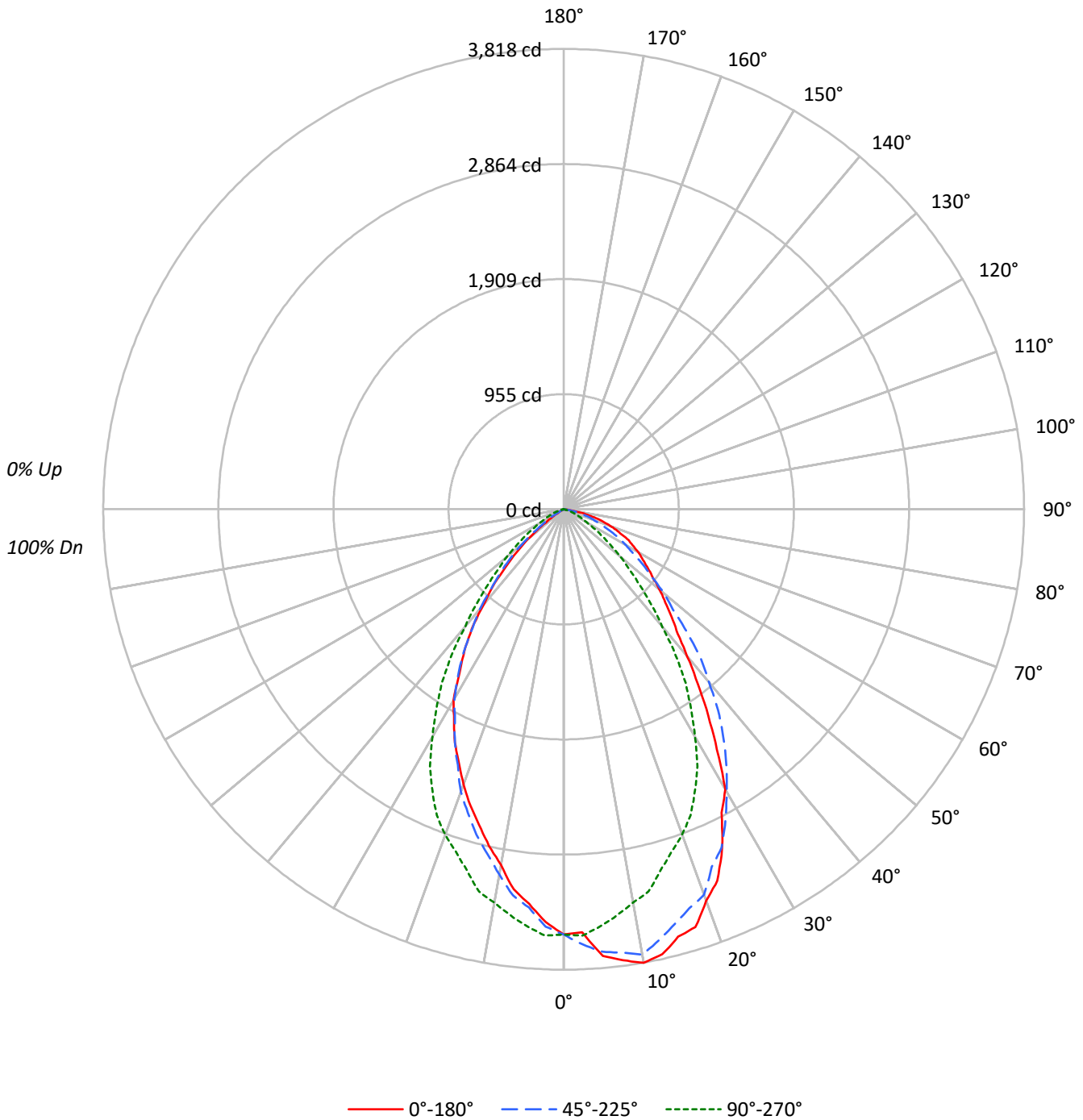
Lumens per Lamp: N/A  
 Luminaire Lumens: 5055.0 lumens  
 Efficiency: N/A  
 Efficacy: 70.2 lumens/watt  
 Spacing Criteria (0/90/45): 1.01 / 1 / 1.06  
 Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
 CIE Type: Direct

Input Watts (W): 72  
 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: FLDSQ4C60D010 FEU4C609040 F4LC-SQLWW-LI

### Luminous Intensity Polar Plot



TEST NUMBER: P#

CATALOG NUMBER: FLDSQ4C60D010 FEU4C609040 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	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°	340268	340268	340268
5°	360000	336250	318235
10°	374117	324403	293315
15°	366636	309607	270749
20°	354743	294808	249218
25°	330889	274155	227343
30°	298695	242619	203534
35°	246054	207701	168854
40°	200801	160318	129963
45°	172521	121760	93472
50°	156144	92678	59038
55°	143696	66852	21348
60°	137921	45678	3261
65°	133220	30891	982
70°	119278	21441	1213
75°	97749	11072	0
80°	61122	4668	0
85°	0	0	0

TEST NUMBER: P#  
 CATALOG NUMBER: FLDSQ4C60D010 FEU4C609040 F4LC-SQLWW-LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.4	6.5
10°-20°	890.2	17.6
20°-30°	1188.7	23.5
30°-40°	1128.4	22.3
40°-50°	780.0	15.4
50°-60°	431.0	8.5
60°-70°	214.0	4.2
70°-80°	84.3	1.7
80°-90°	8.0	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°	2409.3	47.7
0°-40°	3537.7	70.0
0°-60°	4748.6	93.9
0°-90°	5055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5055.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3526	3526	3526	3526	3526	
5°	3717	3683	3472	3315	3286	356
15°	3670	3560	3099	2795	2710	1038
25°	3108	3095	2575	2135	2135	1417
35°	2089	2309	1763	1450	1434	1309
45°	1264	1450	892	732	685	986
55°	854	804	397	203	127	769
65°	584	423	135	4	4	566
75°	262	161	30	0	0	279
85°	0	4	0	0	0	24
90°	0	0	0	0	0	

TEST NUMBER: P#  
 CATALOG NUMBER: FLDSQ4C60D010 FEU4C609040 F4LC-SQLWW-LI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3526.5	3526.5	3526.5	3526.5	3526.5	3526.5	3526.5	3526.5	3526.5	3526.5	3526.5
2.5°	3509.6	3606.8	3615.3	3606.8	3619.6	3615.3	3636.5	3615.3	3640.8	3602.7	3611.1
5°	3716.8	3678.7	3759.1	3716.8	3716.8	3712.7	3699.9	3695.6	3712.7	3657.7	3683.0
7.5°	3771.8	3826.8	3898.7	3809.9	3814.1	3814.1	3788.7	3780.3	3780.3	3678.7	3708.4
10°	3818.4	3784.4	3822.5	3788.7	3818.4	3814.1	3831.0	3776.0	3814.1	3754.9	3750.6
12.5°	3780.3	3767.5	3818.4	3763.4	3746.5	3750.6	3729.6	3716.8	3729.6	3661.8	3657.7
15°	3670.3	3683.0	3759.1	3699.9	3691.5	3683.0	3657.7	3615.3	3649.2	3556.1	3560.4
17.5°	3632.3	3611.1	3623.9	3573.0	3585.8	3577.3	3573.0	3535.1	3526.5	3467.3	3467.3
20°	3454.8	3501.1	3501.1	3467.3	3467.3	3463.2	3408.2	3442.0	3403.9	3387.0	3403.9
22.5°	3332.0	3336.3	3336.3	3306.6	3311.0	3294.1	3264.4	3243.2	3264.4	3243.2	3209.4
25°	3108.0	3116.5	3167.2	3112.2	3103.7	3120.6	3095.3	3082.5	3078.4	3027.7	3095.3
27.5°	2837.3	2921.8	2917.7	2896.5	2921.8	2888.0	2875.4	2879.6	2892.3	2888.0	2904.9
30°	2680.9	2693.5	2706.3	2689.4	2693.5	2680.9	2680.9	2685.1	2718.9	2706.3	2702.0
32.5°	2363.7	2405.9	2439.9	2439.9	2444.0	2456.8	2452.5	2541.3	2562.5	2520.2	2511.8
35°	2088.9	2118.5	2148.0	2152.3	2207.3	2211.4	2215.8	2241.1	2300.2	2313.0	2308.7
37.5°	1826.8	1856.3	1864.7	1902.8	1932.5	1962.0	1995.9	2029.7	2080.4	2122.6	2101.6
40°	1594.2	1606.8	1628.0	1644.9	1704.0	1704.0	1720.9	1788.7	1843.7	1877.5	1873.2
42.5°	1399.7	1403.8	1420.7	1450.4	1505.4	1492.6	1505.4	1551.9	1632.1	1636.4	1683.0
45°	1264.3	1260.0	1272.8	1276.9	1310.9	1327.8	1336.2	1370.0	1437.6	1446.1	1450.4
47.5°	1141.8	1137.4	1158.7	1167.1	1179.7	1196.6	1196.6	1200.9	1226.2	1247.4	1230.6
50°	1040.2	1040.2	1040.2	1048.7	1069.9	1065.5	1069.9	1086.8	1099.3	1090.9	1086.8
52.5°	930.2	947.1	959.9	964.2	968.3	968.3	972.6	964.2	959.9	947.1	921.8
55°	854.2	871.1	871.1	871.1	871.1	888.0	866.9	871.1	871.1	837.3	803.5
57.5°	778.1	795.0	807.6	790.7	807.6	790.7	782.3	778.1	769.5	735.7	685.0
60°	714.7	723.1	718.8	714.7	723.1	710.4	701.9	685.0	676.6	630.0	596.2
62.5°	642.8	646.9	651.2	642.8	634.3	630.0	613.1	587.8	570.9	532.8	503.1
65°	583.5	570.9	566.6	562.4	554.0	541.2	528.6	499.0	486.2	452.4	422.8
67.5°	494.7	490.5	499.0	486.2	465.2	465.2	452.4	427.1	397.4	376.4	346.7
70°	422.8	418.6	410.2	397.4	393.3	376.4	376.4	346.7	338.3	300.2	274.8
72.5°	346.7	346.7	334.0	321.4	308.6	300.2	296.0	274.8	262.2	241.0	219.8
75°	262.2	262.2	257.9	245.2	236.7	228.3	224.1	207.2	194.5	173.4	160.7
77.5°	186.0	186.0	169.1	160.7	164.8	156.4	147.9	143.8	139.5	126.9	110.0
80°	110.0	105.7	93.1	97.2	93.1	93.1	88.8	84.5	76.0	67.6	59.1
82.5°	29.7	33.8	33.8	33.8	38.1	29.7	29.7	29.7	33.8	33.8	21.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	4.3
87.5°	4.3	8.4	16.9	16.9	16.9	16.9	16.9	12.8	12.8	12.8	8.4
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: FLDSQ4C60D010 FEU4C609040 F4LC-SQLWW-LI

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3526.5	3526.5	3526.5	3526.5	3526.5	3526.5	3526.5	3526.5	3526.5	3526.5	3526.5
2.5°	3568.9	3564.6	3568.9	3539.2	3606.8	3556.1	3547.7	3539.2	3568.9	3539.2	3497.0
5°	3644.9	3602.7	3589.9	3577.3	3615.3	3556.1	3543.5	3547.7	3526.5	3471.6	3475.8
7.5°	3670.3	3632.3	3594.2	3513.9	3547.7	3535.1	3501.1	3475.8	3442.0	3395.4	3387.0
10°	3678.7	3636.5	3581.5	3556.1	3505.4	3488.5	3475.8	3433.5	3391.3	3311.0	3289.8
12.5°	3653.4	3602.7	3535.1	3513.9	3475.8	3420.8	3391.3	3348.9	3311.0	3247.5	3201.0
15°	3543.5	3501.1	3480.1	3408.2	3391.3	3357.3	3298.2	3239.1	3184.1	3099.4	3074.1
17.5°	3416.6	3399.8	3378.5	3323.5	3319.4	3285.6	3230.6	3179.7	3108.0	2976.8	2934.6
20°	3285.6	3285.6	3217.9	3196.8	3239.1	3171.3	3129.1	3082.5	2934.6	2871.1	2795.1
22.5°	3188.4	3141.8	3103.7	3069.9	3074.1	3031.8	2972.7	2879.6	2824.6	2748.5	2659.7
25°	2998.0	3014.9	2930.4	2917.7	2930.4	2833.0	2803.5	2727.3	2647.0	2575.1	2507.5
27.5°	2879.6	2833.0	2778.2	2731.6	2731.6	2693.5	2609.0	2592.1	2469.4	2401.8	2317.1
30°	2702.0	2668.2	2621.6	2554.0	2545.6	2515.9	2448.3	2405.9	2279.2	2177.6	2131.1
32.5°	2477.8	2465.2	2427.1	2351.1	2325.8	2291.8	2207.3	2135.4	2076.3	1962.0	1907.1
35°	2317.1	2270.8	2190.4	2127.0	2105.8	2046.6	1978.9	1928.2	1864.7	1763.3	1691.4
37.5°	2076.3	2029.7	1953.5	1877.5	1877.5	1818.3	1725.2	1674.5	1585.7	1526.4	1467.3
40°	1864.7	1805.6	1729.5	1640.7	1628.0	1543.3	1505.4	1420.7	1365.7	1272.8	1264.3
42.5°	1628.0	1573.0	1505.4	1437.6	1386.9	1344.7	1247.4	1184.0	1124.9	1078.3	1065.5
45°	1412.3	1340.4	1281.2	1196.6	1145.9	1095.2	1031.8	989.5	943.0	892.3	862.6
47.5°	1226.2	1167.1	1082.4	1006.4	955.7	930.2	858.3	811.9	773.8	740.0	718.8
50°	1036.1	964.2	917.6	833.0	824.5	765.4	706.2	668.1	646.9	617.4	587.8
52.5°	892.3	824.5	761.1	697.8	663.8	642.8	587.8	549.7	520.2	499.0	482.1
55°	752.6	693.5	642.8	579.3	558.1	528.6	465.2	456.7	427.1	397.4	376.4
57.5°	646.9	591.9	532.8	490.5	452.4	431.4	380.5	346.7	329.8	304.5	283.3
60°	549.7	490.5	444.0	393.3	376.4	346.7	308.6	279.1	257.9	236.7	215.7
62.5°	460.9	410.2	359.5	317.1	291.7	274.8	245.2	219.8	198.8	181.9	164.8
65°	380.5	334.0	291.7	249.5	236.7	215.7	194.5	173.4	156.4	135.3	118.4
67.5°	312.9	270.7	228.3	198.8	186.0	177.6	152.2	131.0	118.4	105.7	88.8
70°	245.2	215.7	181.9	156.4	143.8	131.0	114.1	101.6	84.5	76.0	63.4
72.5°	190.3	164.8	135.3	114.1	105.7	97.2	80.3	67.6	59.1	50.7	42.2
75°	135.3	114.1	97.2	76.0	71.9	67.6	55.0	46.6	38.1	29.7	25.3
77.5°	93.1	76.0	59.1	50.7	46.6	38.1	33.8	25.3	21.2	16.9	12.8
80°	50.7	38.1	29.7	25.3	21.2	16.9	16.9	12.8	8.4	8.4	4.3
82.5°	16.9	12.8	8.4	4.3	4.3	4.3	4.3	4.3	4.3	0.0	4.3
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°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	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: FLDSQ4C60D010 FEU4C609040 F4LC-SQLWW-LI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3526.5	3526.5	3526.5	3526.5	3526.5	3526.5	3526.5	3526.5	3526.5	3526.5	3526.5
2.5°	3522.3	3475.8	3488.5	3488.5	3480.1	3480.1	3471.6	3458.9	3463.2	3437.7	3382.9
5°	3484.2	3425.1	3416.6	3425.1	3391.3	3382.9	3366.0	3391.3	3315.1	3344.8	3311.0
7.5°	3374.4	3319.4	3306.6	3336.3	3294.1	3268.5	3264.4	3298.2	3230.6	3196.8	3158.7
10°	3251.6	3230.6	3192.5	3171.3	3158.7	3162.9	3129.1	3086.8	3074.1	3065.6	3031.8
12.5°	3141.8	3095.3	3061.5	3036.1	3027.7	3027.7	2972.7	2964.2	2926.1	2917.7	2867.0
15°	3010.6	2955.8	2934.6	2900.8	2871.1	2888.0	2824.6	2807.7	2795.1	2740.1	2748.5
17.5°	2896.5	2837.3	2786.6	2765.4	2740.1	2714.7	2655.4	2668.2	2638.5	2638.5	2562.5
20°	2748.5	2685.1	2647.0	2604.7	2604.7	2570.9	2528.7	2532.8	2494.7	2456.8	2389.0
22.5°	2592.1	2524.4	2477.8	2460.9	2418.7	2410.2	2359.5	2346.8	2296.1	2300.2	2241.1
25°	2427.1	2359.5	2296.1	2300.2	2262.3	2245.4	2215.8	2156.6	2135.4	2110.1	2093.2
27.5°	2232.6	2186.1	2131.1	2127.0	2055.1	2059.2	2021.3	2004.4	1953.5	1966.3	1928.2
30°	2055.1	1987.5	1936.6	1924.0	1894.4	1885.9	1826.8	1801.3	1809.9	1775.9	1754.9
32.5°	1873.2	1771.8	1750.6	1725.2	1708.3	1687.1	1644.9	1661.8	1623.7	1632.1	1598.3
35°	1632.1	1589.9	1534.9	1534.9	1518.0	1501.1	1471.6	1488.5	1450.4	1433.5	1399.7
37.5°	1429.2	1391.2	1336.2	1353.1	1323.5	1298.1	1272.8	1276.9	1243.1	1239.0	1205.0
40°	1209.3	1188.1	1150.2	1150.2	1129.0	1129.0	1116.2	1103.7	1082.4	1057.1	1019.0
42.5°	1002.1	985.2	968.3	972.6	943.0	968.3	934.5	955.7	888.0	883.8	858.3
45°	849.9	811.9	816.1	799.2	782.3	790.7	761.1	769.5	731.6	723.1	697.8
47.5°	689.3	676.6	651.2	642.8	642.8	630.0	617.4	613.1	596.2	575.0	541.2
50°	566.6	520.2	511.6	499.0	490.5	490.5	473.6	448.3	452.4	431.4	397.4
52.5°	444.0	405.9	389.0	384.8	367.9	359.5	338.3	321.4	308.6	300.2	279.1
55°	342.4	308.6	287.6	287.6	262.2	262.2	232.6	219.8	202.9	186.0	173.4
57.5°	257.9	241.0	219.8	202.9	194.5	173.4	156.4	135.3	122.6	97.2	80.3
60°	194.5	177.6	156.4	143.8	135.3	114.1	93.1	76.0	46.6	38.1	33.8
62.5°	143.8	126.9	105.7	97.2	88.8	71.9	50.7	25.3	12.8	12.8	12.8
65°	105.7	84.5	67.6	59.1	50.7	38.1	16.9	8.4	4.3	4.3	4.3
67.5°	71.9	55.0	38.1	33.8	25.3	12.8	4.3	4.3	4.3	4.3	4.3
70°	46.6	33.8	16.9	12.8	8.4	4.3	4.3	4.3	4.3	4.3	4.3
72.5°	29.7	16.9	8.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	16.9	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.3	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	4.3	4.3	4.3
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: FLDSQ4C60D010 FEU4C609040 F4LC-SQLWW-LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3526.5	3526.5	3526.5	3526.5	3526.5	3526.5	3526.5	3526.5
2.5°	3442.0	3412.3	3429.2	3391.3	3408.2	3437.7	3416.6	3425.1
5°	3323.5	3306.6	3285.6	3230.6	3272.9	3306.6	3289.8	3285.6
7.5°	3196.8	3137.5	3167.2	3150.3	3141.8	3175.6	3137.5	3179.7
10°	3065.6	3023.4	3019.2	2989.6	2989.6	3014.9	3019.2	2993.7
12.5°	2871.1	2850.1	2850.1	2845.8	2841.5	2867.0	2871.1	2858.5
15°	2731.6	2723.2	2702.0	2697.8	2672.5	2710.4	2714.7	2710.4
17.5°	2562.5	2566.6	2545.6	2545.6	2562.5	2575.1	2541.3	2575.1
20°	2448.3	2427.1	2418.7	2380.6	2401.8	2423.0	2423.0	2427.1
22.5°	2283.3	2249.5	2262.3	2241.1	2228.3	2258.0	2258.0	2270.8
25°	2097.3	2097.3	2105.8	2093.2	2101.6	2118.5	2105.8	2135.4
27.5°	1919.7	1936.6	1936.6	1919.7	1928.2	1978.9	2000.1	1966.3
30°	1754.9	1759.0	1771.8	1763.3	1788.7	1805.6	1801.3	1826.8
32.5°	1568.8	1589.9	1598.3	1585.7	1594.2	1632.1	1611.1	1606.8
35°	1425.0	1386.9	1382.8	1386.9	1403.8	1412.3	1403.8	1433.5
37.5°	1217.8	1205.0	1188.1	1192.4	1205.0	1222.1	1230.6	1251.6
40°	1019.0	1002.1	1002.1	998.0	985.2	1031.8	1031.8	1031.8
42.5°	845.7	841.4	820.4	820.4	837.3	849.9	841.4	871.1
45°	693.5	676.6	663.8	663.8	676.6	676.6	689.3	685.0
47.5°	545.5	528.6	532.8	520.2	532.8	549.7	528.6	532.8
50°	410.2	410.2	401.7	410.2	405.9	410.2	401.7	393.3
52.5°	279.1	317.1	321.4	304.5	266.4	232.6	211.4	228.3
55°	160.7	143.8	143.8	139.5	131.0	126.9	114.1	126.9
57.5°	80.3	71.9	71.9	71.9	67.6	63.4	55.0	55.0
60°	33.8	29.7	29.7	25.3	21.2	16.9	12.8	16.9
62.5°	12.8	8.4	8.4	8.4	8.4	8.4	8.4	8.4
65°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
67.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
70°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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)