

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 FEU4C559040 F4LC-SQLWW-LI**

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: FLDSQ4C55D010 FEU4C559040 F4LC-SQLWW-LI
 Description: 4 INCH 5500 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND F4LC-SQLWW TRIM WITH LI FINISH
 Light Source: -
 Ballast/Driver: -

Summary

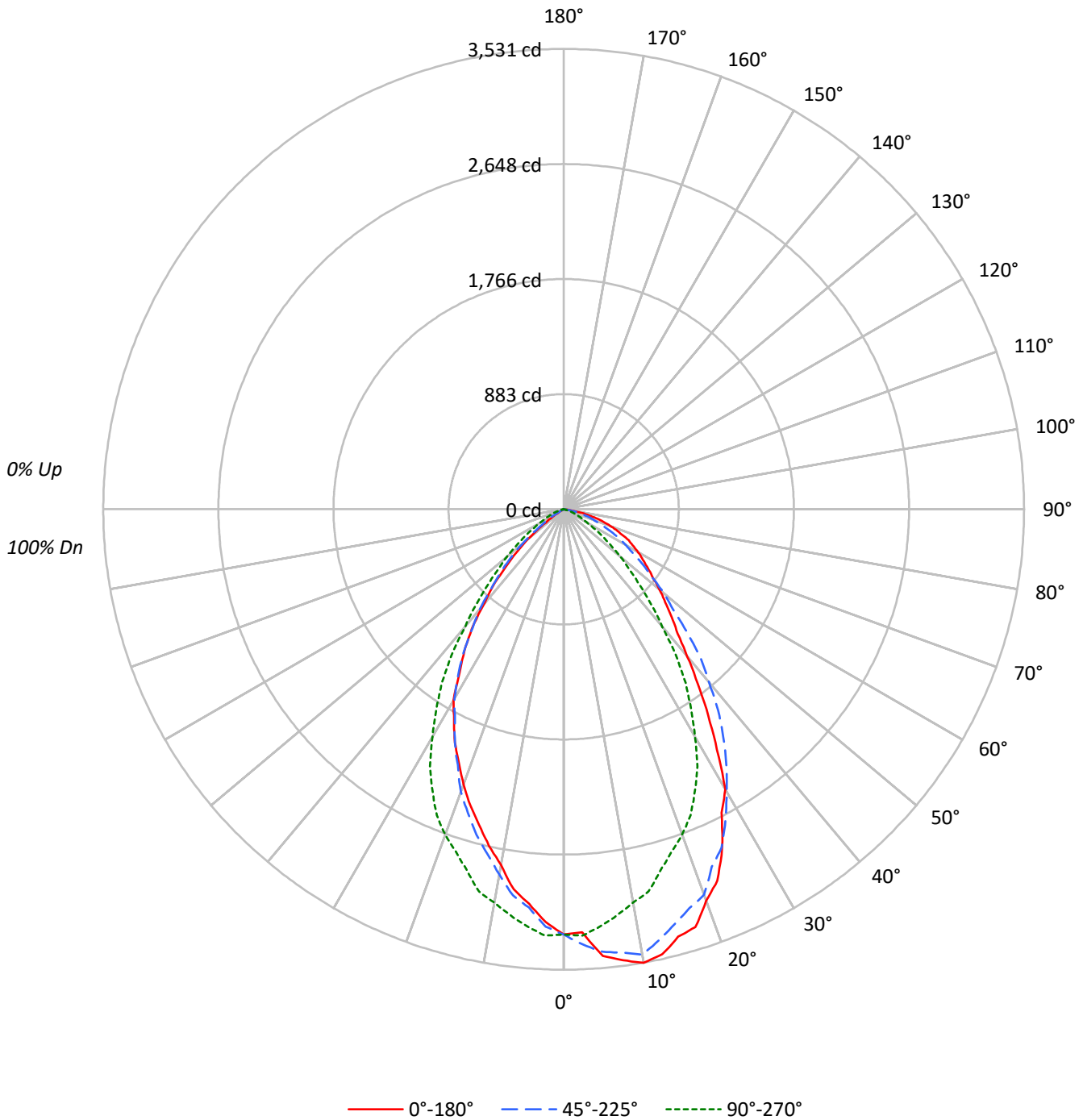
Lumens per Lamp: N/A
 Luminaire Lumens: 4675.0 lumens
 Efficiency: N/A
 Efficacy: 73.2 lumens/watt
 Spacing Criteria (0/90/45): 1.01 / 1 / 1.06
 Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
 CIE Type: Direct

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

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Luminous Intensity Polar Plot



TEST NUMBER: P#

CATALOG NUMBER: FLDSQ4C55D010 FEU4C559040 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°	314689	314689	314689
5°	332938	310980	294311
10°	345988	300017	271270
15°	339076	286332	250401
20°	328067	272650	230489
25°	306019	253543	210255
30°	276244	224380	188226
35°	227549	192094	156156
40°	185699	148264	120188
45°	159558	112603	86445
50°	144406	85713	54595
55°	132896	61839	19749
60°	127539	42243	3010
65°	123197	28585	913
70°	110307	19833	1128
75°	90405	10215	0
80°	56510	4334	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.6	6.5
10°-20°	823.3	17.6
20°-30°	1099.3	23.5
30°-40°	1043.6	22.3
40°-50°	721.4	15.4
50°-60°	398.6	8.5
60°-70°	197.9	4.2
70°-80°	78.0	1.7
80°-90°	7.4	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°	2228.2	47.7
0°-40°	3271.7	70.0
0°-60°	4391.7	93.9
0°-90°	4675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4675.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3261	3261	3261	3261	3261	
5°	3437	3406	3211	3066	3039	329
15°	3394	3293	2866	2585	2507	960
25°	2874	2863	2382	1975	1975	1310
35°	1932	2135	1631	1341	1326	1210
45°	1169	1341	825	677	634	912
55°	790	743	368	188	117	711
65°	540	391	125	4	4	524
75°	242	149	27	0	0	258
85°	0	4	0	0	0	22
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°	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4
2.5°	3245.8	3335.7	3343.5	3335.7	3347.5	3343.5	3363.1	3343.5	3367.1	3331.9	3339.7
5°	3437.4	3402.2	3476.5	3437.4	3437.4	3433.6	3421.8	3417.8	3433.6	3382.7	3406.2
7.5°	3488.3	3539.2	3605.7	3523.5	3527.4	3527.4	3503.9	3496.1	3496.1	3402.2	3429.6
10°	3531.3	3499.9	3535.2	3503.9	3531.3	3527.4	3543.0	3492.1	3527.4	3472.7	3468.7
12.5°	3496.1	3484.3	3531.3	3480.5	3464.9	3468.7	3449.2	3437.4	3449.2	3386.6	3382.7
15°	3394.4	3406.2	3476.5	3421.8	3414.0	3406.2	3382.7	3343.5	3374.9	3288.8	3292.8
17.5°	3359.3	3339.7	3351.5	3304.4	3316.2	3308.4	3304.4	3269.4	3261.4	3206.7	3206.7
20°	3195.0	3237.9	3237.9	3206.7	3206.7	3202.9	3152.0	3183.2	3148.0	3132.4	3148.0
22.5°	3081.5	3085.5	3085.5	3058.1	3062.1	3046.4	3019.0	2999.4	3019.0	2999.4	2968.1
25°	2874.4	2882.2	2929.1	2878.2	2870.4	2886.0	2862.6	2850.8	2847.0	2800.1	2862.6
27.5°	2624.0	2702.2	2698.3	2678.7	2702.2	2670.9	2659.3	2663.1	2674.9	2670.9	2686.5
30°	2479.4	2491.0	2502.8	2487.2	2491.0	2479.4	2479.4	2483.2	2514.5	2502.8	2498.9
32.5°	2186.0	2225.1	2256.5	2256.5	2260.3	2272.1	2268.1	2350.2	2369.9	2330.8	2323.0
35°	1931.8	1959.3	1986.5	1990.5	2041.4	2045.2	2049.2	2072.6	2127.3	2139.1	2135.1
37.5°	1689.4	1716.7	1724.5	1759.8	1787.2	1814.5	1845.9	1877.1	1924.0	1963.1	1943.6
40°	1474.3	1486.0	1505.6	1521.2	1575.9	1575.9	1591.5	1654.2	1705.1	1736.3	1732.3
42.5°	1294.5	1298.3	1313.9	1341.4	1392.2	1380.4	1392.2	1435.3	1509.4	1513.4	1556.5
45°	1169.3	1165.3	1177.1	1180.9	1212.4	1228.0	1235.8	1267.0	1329.6	1337.4	1341.4
47.5°	1055.9	1051.9	1071.6	1079.4	1091.0	1106.6	1106.6	1110.6	1134.1	1153.7	1138.0
50°	962.0	962.0	962.0	969.8	989.4	985.4	989.4	1005.1	1016.7	1008.9	1005.1
52.5°	860.3	875.9	887.7	891.7	895.5	895.5	899.5	891.7	887.7	875.9	852.5
55°	790.0	805.6	805.6	805.6	805.6	821.2	801.7	805.6	805.6	774.3	743.1
57.5°	719.6	735.3	746.9	731.3	746.9	731.3	723.5	719.6	711.7	680.4	633.5
60°	660.9	668.8	664.8	660.9	668.8	657.0	649.2	633.5	625.7	582.7	551.4
62.5°	594.5	598.3	602.3	594.5	586.6	582.7	567.0	543.6	528.0	492.7	465.3
65°	539.6	528.0	524.0	520.1	512.3	500.5	488.9	461.5	449.7	418.4	391.0
67.5°	457.5	453.7	461.5	449.7	430.2	430.2	418.4	395.0	367.6	348.1	320.7
70°	391.0	387.2	379.3	367.6	363.7	348.1	348.1	320.7	312.9	277.6	254.2
72.5°	320.7	320.7	308.9	297.2	285.4	277.6	273.8	254.2	242.5	222.9	203.3
75°	242.5	242.5	238.5	226.8	218.9	211.1	207.3	191.7	179.9	160.4	148.6
77.5°	172.1	172.1	156.4	148.6	152.4	144.6	136.8	133.0	129.0	117.4	101.7
80°	101.7	97.7	86.1	89.9	86.1	86.1	82.1	78.1	70.3	62.5	54.7
82.5°	27.4	31.3	31.3	31.3	35.2	27.4	27.4	27.4	31.3	31.3	19.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0	4.0
87.5°	4.0	7.8	15.6	15.6	15.6	15.6	15.6	11.8	11.8	11.8	7.8
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°	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4
2.5°	3300.6	3296.6	3300.6	3273.2	3335.7	3288.8	3281.0	3273.2	3300.6	3273.2	3234.1
5°	3370.9	3331.9	3320.1	3308.4	3343.5	3288.8	3277.2	3281.0	3261.4	3210.7	3214.5
7.5°	3394.4	3359.3	3324.0	3249.7	3281.0	3269.4	3237.9	3214.5	3183.2	3140.2	3132.4
10°	3402.2	3363.1	3312.3	3288.8	3241.9	3226.3	3214.5	3175.4	3136.4	3062.1	3042.4
12.5°	3378.7	3331.9	3269.4	3249.7	3214.5	3163.6	3136.4	3097.1	3062.1	3003.4	2960.3
15°	3277.2	3237.9	3218.5	3152.0	3136.4	3105.0	3050.3	2995.6	2944.7	2866.4	2843.0
17.5°	3159.8	3144.2	3124.6	3073.7	3069.9	3038.6	2987.8	2940.7	2874.4	2753.0	2714.0
20°	3038.6	3038.6	2976.0	2956.5	2995.6	2932.9	2893.8	2850.8	2714.0	2655.3	2585.0
22.5°	2948.7	2905.6	2870.4	2839.1	2843.0	2803.9	2749.2	2663.1	2612.2	2541.9	2459.8
25°	2772.6	2788.3	2710.1	2698.3	2710.1	2620.0	2592.8	2522.3	2448.0	2381.5	2319.0
27.5°	2663.1	2620.0	2569.3	2526.3	2526.3	2491.0	2412.9	2397.3	2283.8	2221.2	2143.0
30°	2498.9	2467.6	2424.6	2362.0	2354.2	2326.8	2264.3	2225.1	2107.9	2013.9	1970.9
32.5°	2291.6	2279.9	2244.7	2174.4	2150.9	2119.5	2041.4	1974.9	1920.2	1814.5	1763.8
35°	2143.0	2100.1	2025.7	1967.1	1947.5	1892.8	1830.1	1783.2	1724.5	1630.8	1564.3
37.5°	1920.2	1877.1	1806.7	1736.3	1736.3	1681.6	1595.5	1548.6	1466.5	1411.7	1357.0
40°	1724.5	1669.8	1599.5	1517.4	1505.6	1427.3	1392.2	1313.9	1263.1	1177.1	1169.3
42.5°	1505.6	1454.7	1392.2	1329.6	1282.7	1243.6	1153.7	1095.0	1040.3	997.2	985.4
45°	1306.1	1239.6	1184.9	1106.6	1059.8	1012.9	954.2	915.1	872.1	825.2	797.8
47.5°	1134.1	1079.4	1001.1	930.8	883.9	860.3	793.8	750.9	715.6	684.4	664.8
50°	958.2	891.7	848.6	770.3	762.5	707.8	653.1	617.9	598.3	571.0	543.6
52.5°	825.2	762.5	703.8	645.3	613.9	594.5	543.6	508.4	481.1	461.5	445.8
55°	696.0	641.3	594.5	535.8	516.2	488.9	430.2	422.4	395.0	367.6	348.1
57.5°	598.3	547.4	492.7	453.7	418.4	399.0	351.9	320.7	305.0	281.6	262.0
60°	508.4	453.7	410.6	363.7	348.1	320.7	285.4	258.2	238.5	218.9	199.5
62.5°	426.2	379.3	332.5	293.2	269.8	254.2	226.8	203.3	183.9	168.2	152.4
65°	351.9	308.9	269.8	230.7	218.9	199.5	179.9	160.4	144.6	125.2	109.5
67.5°	289.4	250.3	211.1	183.9	172.1	164.2	140.8	121.2	109.5	97.7	82.1
70°	226.8	199.5	168.2	144.6	133.0	121.2	105.6	93.9	78.1	70.3	58.7
72.5°	176.0	152.4	125.2	105.6	97.7	89.9	74.3	62.5	54.7	46.9	39.1
75°	125.2	105.6	89.9	70.3	66.5	62.5	50.9	43.1	35.2	27.4	23.4
77.5°	86.1	70.3	54.7	46.9	43.1	35.2	31.3	23.4	19.6	15.6	11.8
80°	46.9	35.2	27.4	23.4	19.6	15.6	15.6	11.8	7.8	7.8	4.0
82.5°	15.6	11.8	7.8	4.0	4.0	4.0	4.0	4.0	4.0	0.0	4.0
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°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	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°	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4
2.5°	3257.6	3214.5	3226.3	3226.3	3218.5	3218.5	3210.7	3198.9	3202.9	3179.3	3128.6
5°	3222.3	3167.6	3159.8	3167.6	3136.4	3128.6	3112.9	3136.4	3065.9	3093.3	3062.1
7.5°	3120.7	3069.9	3058.1	3085.5	3046.4	3022.8	3019.0	3050.3	2987.8	2956.5	2921.3
10°	3007.2	2987.8	2952.5	2932.9	2921.3	2925.1	2893.8	2854.8	2843.0	2835.2	2803.9
12.5°	2905.6	2862.6	2831.3	2807.9	2800.1	2800.1	2749.2	2741.4	2706.2	2698.3	2651.5
15°	2784.3	2733.6	2714.0	2682.7	2655.3	2670.9	2612.2	2596.6	2585.0	2534.1	2541.9
17.5°	2678.7	2624.0	2577.1	2557.5	2534.1	2510.7	2455.8	2467.6	2440.2	2440.2	2369.9
20°	2541.9	2483.2	2448.0	2408.9	2408.9	2377.7	2338.6	2342.4	2307.2	2272.1	2209.4
22.5°	2397.3	2334.6	2291.6	2275.9	2236.9	2229.1	2182.2	2170.4	2123.5	2127.3	2072.6
25°	2244.7	2182.2	2123.5	2127.3	2092.2	2076.6	2049.2	1994.5	1974.9	1951.4	1935.8
27.5°	2064.8	2021.8	1970.9	1967.1	1900.6	1904.4	1869.3	1853.7	1806.7	1818.5	1783.2
30°	1900.6	1838.1	1791.0	1779.4	1752.0	1744.1	1689.4	1665.9	1673.8	1642.4	1623.0
32.5°	1732.3	1638.6	1619.0	1595.5	1579.9	1560.3	1521.2	1536.9	1501.6	1509.4	1478.2
35°	1509.4	1470.4	1419.5	1419.5	1403.9	1388.2	1361.0	1376.6	1341.4	1325.7	1294.5
37.5°	1321.7	1286.7	1235.8	1251.4	1224.0	1200.6	1177.1	1180.9	1149.7	1145.9	1114.5
40°	1118.4	1098.8	1063.7	1063.7	1044.1	1044.1	1032.3	1020.7	1001.1	977.6	942.4
42.5°	926.8	911.1	895.5	899.5	872.1	895.5	864.3	883.9	821.2	817.4	793.8
45°	786.0	750.9	754.7	739.1	723.5	731.3	703.8	711.7	676.6	668.8	645.3
47.5°	637.5	625.7	602.3	594.5	594.5	582.7	571.0	567.0	551.4	531.8	500.5
50°	524.0	481.1	473.1	461.5	453.7	453.7	438.0	414.6	418.4	399.0	367.6
52.5°	410.6	375.4	359.7	355.9	340.3	332.5	312.9	297.2	285.4	277.6	258.2
55°	316.7	285.4	266.0	266.0	242.5	242.5	215.1	203.3	187.7	172.1	160.4
57.5°	238.5	222.9	203.3	187.7	179.9	160.4	144.6	125.2	113.4	89.9	74.3
60°	179.9	164.2	144.6	133.0	125.2	105.6	86.1	70.3	43.1	35.2	31.3
62.5°	133.0	117.4	97.7	89.9	82.1	66.5	46.9	23.4	11.8	11.8	11.8
65°	97.7	78.1	62.5	54.7	46.9	35.2	15.6	7.8	4.0	4.0	4.0
67.5°	66.5	50.9	35.2	31.3	23.4	11.8	4.0	4.0	4.0	4.0	4.0
70°	43.1	31.3	15.6	11.8	7.8	4.0	4.0	4.0	4.0	4.0	4.0
72.5°	27.4	15.6	7.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	15.6	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.0	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	4.0	4.0	4.0
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 FEU4C559040 F4LC-SQLWW-LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4	3261.4
2.5°	3183.2	3155.8	3171.5	3136.4	3152.0	3179.3	3159.8	3167.6
5°	3073.7	3058.1	3038.6	2987.8	3026.8	3058.1	3042.4	3038.6
7.5°	2956.5	2901.6	2929.1	2913.4	2905.6	2936.9	2901.6	2940.7
10°	2835.2	2796.1	2792.3	2764.8	2764.8	2788.3	2792.3	2768.7
12.5°	2655.3	2635.8	2635.8	2631.8	2627.9	2651.5	2655.3	2643.6
15°	2526.3	2518.5	2498.9	2495.0	2471.6	2506.7	2510.7	2506.7
17.5°	2369.9	2373.7	2354.2	2354.2	2369.9	2381.5	2350.2	2381.5
20°	2264.3	2244.7	2236.9	2201.6	2221.2	2240.9	2240.9	2244.7
22.5°	2111.7	2080.4	2092.2	2072.6	2060.8	2088.3	2088.3	2100.1
25°	1939.6	1939.6	1947.5	1935.8	1943.6	1959.3	1947.5	1974.9
27.5°	1775.4	1791.0	1791.0	1775.4	1783.2	1830.1	1849.7	1818.5
30°	1623.0	1626.8	1638.6	1630.8	1654.2	1669.8	1665.9	1689.4
32.5°	1450.9	1470.4	1478.2	1466.5	1474.3	1509.4	1490.0	1486.0
35°	1317.9	1282.7	1278.8	1282.7	1298.3	1306.1	1298.3	1325.7
37.5°	1126.2	1114.5	1098.8	1102.8	1114.5	1130.2	1138.0	1157.5
40°	942.4	926.8	926.8	922.9	911.1	954.2	954.2	954.2
42.5°	782.1	778.2	758.7	758.7	774.3	786.0	778.2	805.6
45°	641.3	625.7	613.9	613.9	625.7	625.7	637.5	633.5
47.5°	504.5	488.9	492.7	481.1	492.7	508.4	488.9	492.7
50°	379.3	379.3	371.5	379.3	375.4	379.3	371.5	363.7
52.5°	258.2	293.2	297.2	281.6	246.4	215.1	195.5	211.1
55°	148.6	133.0	133.0	129.0	121.2	117.4	105.6	117.4
57.5°	74.3	66.5	66.5	66.5	62.5	58.7	50.9	50.9
60°	31.3	27.4	27.4	23.4	19.6	15.6	11.8	15.6
62.5°	11.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
65°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
67.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
70°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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)