

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 FEU4C559035 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 FEU4C559035 F4LC-SQLWW-LI
 Description: 4 INCH 5500 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND F4LC-SQLWW TRIM WITH LI FINISH
 Light Source: -
 Ballast/Driver: -

Summary

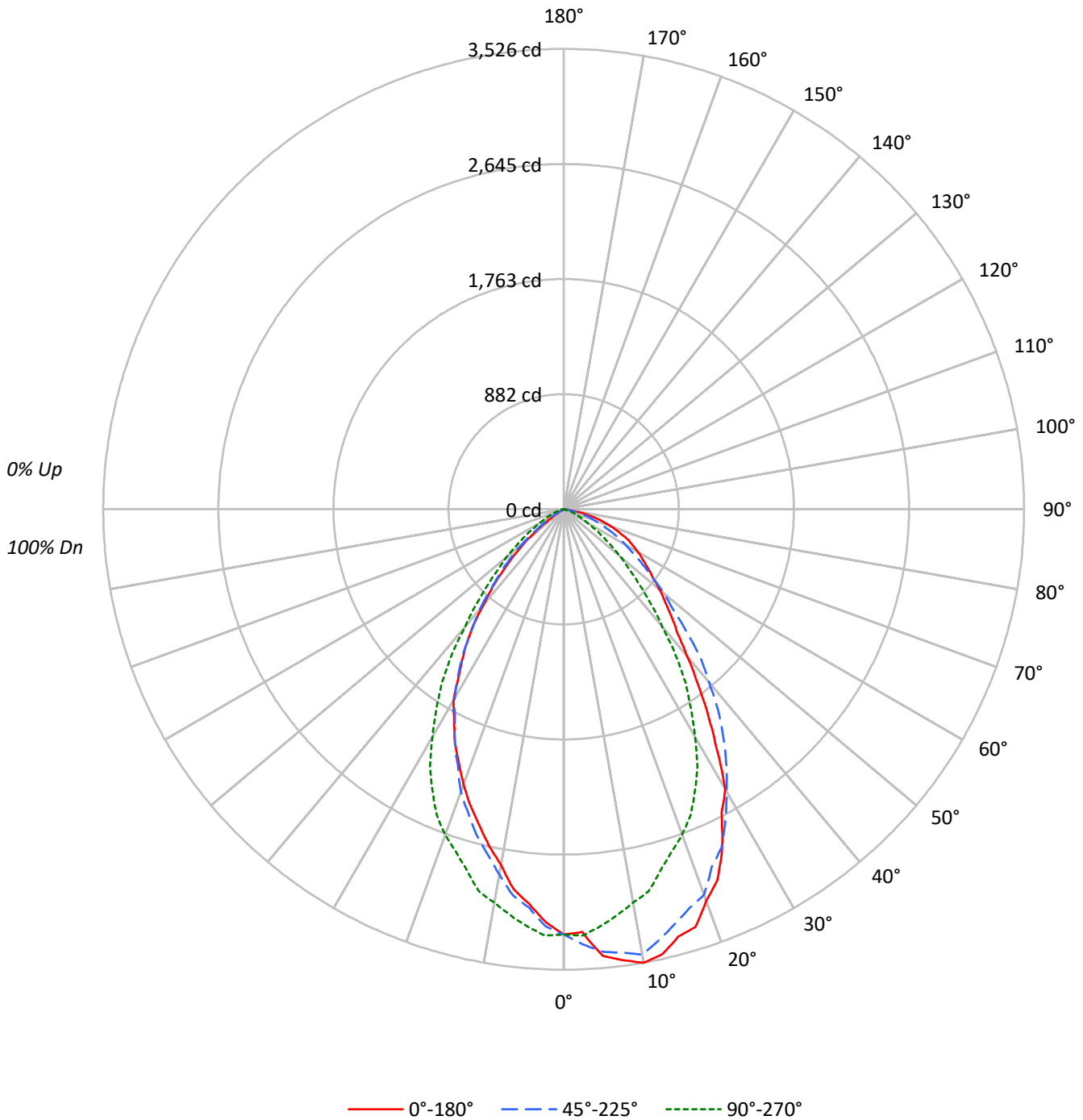
Lumens per Lamp: N/A
 Luminaire Lumens: 4668.0 lumens
 Efficiency: N/A
 Efficacy: 73.1 lumens/watt
 Spacing Criteria (0/90/45): 1.01 / 1 / 1.06
 Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
 CIE Type: Direct

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 FEU4C559035 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°	314216	314216	314216
5°	332444	310515	293875
10°	345478	299566	270858
15°	338566	285903	250021
20°	327584	272239	230140
25°	305562	253160	209936
30°	275832	224046	187947
35°	227207	191799	155920
40°	185422	148050	120012
45°	159312	112440	86322
50°	144196	85593	54520
55°	132695	61738	19716
60°	127365	42185	3010
65°	123015	28539	913
70°	110138	19804	1128
75°	90293	10215	0
80°	56455	4334	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.1	6.5
10°-20°	822.0	17.6
20°-30°	1097.7	23.5
30°-40°	1042.0	22.3
40°-50°	720.3	15.4
50°-60°	398.0	8.5
60°-70°	197.6	4.2
70°-80°	77.9	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°	2224.8	47.7
0°-40°	3266.8	70.0
0°-60°	4385.1	93.9
0°-90°	4668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4668.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3256	3256	3256	3256	3256	
5°	3432	3401	3206	3061	3034	329
15°	3389	3288	2862	2581	2503	959
25°	2870	2858	2378	1972	1972	1308
35°	1929	2132	1628	1339	1324	1208
45°	1168	1339	824	676	633	911
55°	789	742	367	187	117	710
65°	539	390	125	4	4	523
75°	242	148	27	0	0	258
85°	0	4	0	0	0	22
90°	0	0	0	0	0	

TEST NUMBER: P#
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5
2.5°	3240.9	3330.7	3338.5	3330.7	3342.5	3338.5	3358.1	3338.5	3362.1	3326.9	3334.7
5°	3432.3	3397.1	3471.3	3432.3	3432.3	3428.5	3416.7	3412.7	3428.5	3377.7	3401.1
7.5°	3483.1	3533.9	3600.3	3518.3	3522.1	3522.1	3498.7	3490.9	3490.9	3397.1	3424.5
10°	3526.1	3494.7	3529.9	3498.7	3526.1	3522.1	3537.7	3486.9	3522.1	3467.5	3463.5
12.5°	3490.9	3479.1	3526.1	3475.3	3459.7	3463.5	3444.1	3432.3	3444.1	3381.5	3377.7
15°	3389.3	3401.1	3471.3	3416.7	3408.9	3401.1	3377.7	3338.5	3369.9	3283.9	3287.9
17.5°	3354.3	3334.7	3346.5	3299.5	3311.3	3303.5	3299.5	3264.5	3256.5	3201.9	3201.9
20°	3190.3	3233.1	3233.1	3201.9	3201.9	3198.1	3147.3	3178.5	3143.3	3127.7	3143.3
22.5°	3076.9	3080.9	3080.9	3053.5	3057.5	3041.9	3014.5	2994.9	3014.5	2994.9	2963.7
25°	2870.1	2877.9	2924.7	2873.9	2866.1	2881.7	2858.3	2846.5	2842.7	2795.9	2858.3
27.5°	2620.1	2698.1	2694.3	2674.7	2698.1	2666.9	2655.3	2659.1	2670.9	2666.9	2682.5
30°	2475.7	2487.3	2499.1	2483.5	2487.3	2475.7	2475.7	2479.5	2510.7	2499.1	2495.1
32.5°	2182.7	2221.7	2253.1	2253.1	2256.9	2268.7	2264.7	2346.7	2366.3	2327.3	2319.5
35°	1928.9	1956.3	1983.5	1987.5	2038.3	2042.1	2046.1	2069.5	2124.1	2135.9	2131.9
37.5°	1686.9	1714.2	1722.0	1757.1	1784.5	1811.8	1843.1	1874.3	1921.1	1960.1	1940.7
40°	1472.1	1483.8	1503.3	1518.9	1573.6	1573.6	1589.2	1651.7	1702.5	1733.7	1729.8
42.5°	1292.5	1296.4	1312.0	1339.3	1390.1	1378.4	1390.1	1433.1	1507.2	1511.1	1554.1
45°	1167.5	1163.6	1175.4	1179.2	1210.5	1226.1	1233.9	1265.2	1327.6	1335.4	1339.3
47.5°	1054.3	1050.4	1069.9	1077.8	1089.4	1105.0	1105.0	1109.0	1132.4	1151.9	1136.3
50°	960.6	960.6	960.6	968.4	988.0	984.0	988.0	1003.6	1015.2	1007.4	1003.6
52.5°	859.0	874.6	886.4	890.3	894.2	894.2	898.2	890.3	886.4	874.6	851.2
55°	788.8	804.4	804.4	804.4	804.4	820.0	800.5	804.4	804.4	773.2	742.0
57.5°	718.6	734.2	745.8	730.2	745.8	730.2	722.4	718.6	710.6	679.4	632.6
60°	660.0	667.8	663.8	660.0	667.8	656.0	648.2	632.6	624.8	581.8	550.6
62.5°	593.6	597.4	601.4	593.6	585.8	581.8	566.2	542.8	527.2	492.0	464.6
65°	538.8	527.2	523.2	519.4	511.6	499.8	488.2	460.8	449.0	417.8	390.4
67.5°	456.8	453.0	460.8	449.0	429.6	429.6	417.8	394.4	367.0	347.6	320.2
70°	390.4	386.6	378.8	367.0	363.2	347.6	347.6	320.2	312.4	277.2	253.8
72.5°	320.2	320.2	308.4	296.8	285.0	277.2	273.4	253.8	242.2	222.6	203.0
75°	242.2	242.2	238.2	226.4	218.6	210.8	207.0	191.4	179.6	160.2	148.4
77.5°	171.8	171.8	156.2	148.4	152.2	144.4	136.6	132.8	128.8	117.2	101.6
80°	101.6	97.6	86.0	89.8	86.0	86.0	82.0	78.0	70.2	62.4	54.6
82.5°	27.4	31.2	31.2	31.2	35.2	27.4	27.4	27.4	31.2	31.2	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°	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5
2.5°	3295.7	3291.7	3295.7	3268.3	3330.7	3283.9	3276.1	3268.3	3295.7	3268.3	3229.3
5°	3365.9	3326.9	3315.1	3303.5	3338.5	3283.9	3272.3	3276.1	3256.5	3205.9	3209.7
7.5°	3389.3	3354.3	3319.1	3244.9	3276.1	3264.5	3233.1	3209.7	3178.5	3135.5	3127.7
10°	3397.1	3358.1	3307.3	3283.9	3237.1	3221.5	3209.7	3170.7	3131.7	3057.5	3037.9
12.5°	3373.7	3326.9	3264.5	3244.9	3209.7	3158.9	3131.7	3092.5	3057.5	2998.9	2955.9
15°	3272.3	3233.1	3213.7	3147.3	3131.7	3100.3	3045.7	2991.1	2940.3	2862.1	2838.7
17.5°	3155.1	3139.5	3119.9	3069.1	3065.3	3034.1	2983.3	2936.3	2870.1	2748.9	2709.9
20°	3034.1	3034.1	2971.5	2952.1	2991.1	2928.5	2889.5	2846.5	2709.9	2651.3	2581.1
22.5°	2944.3	2901.3	2866.1	2834.9	2838.7	2799.7	2745.1	2659.1	2608.3	2538.1	2456.1
25°	2768.5	2784.1	2706.1	2694.3	2706.1	2616.1	2588.9	2518.5	2444.3	2377.9	2315.5
27.5°	2659.1	2616.1	2565.5	2522.5	2522.5	2487.3	2409.3	2393.7	2280.3	2217.9	2139.7
30°	2495.1	2463.9	2420.9	2358.5	2350.7	2323.3	2260.9	2221.7	2104.7	2010.9	1967.9
32.5°	2288.1	2276.5	2241.3	2171.1	2147.7	2116.3	2038.3	1971.9	1917.3	1811.8	1761.1
35°	2139.7	2096.9	2022.7	1964.1	1944.5	1889.9	1827.4	1780.5	1722.0	1628.3	1561.9
37.5°	1917.3	1874.3	1804.0	1733.7	1733.7	1679.1	1593.1	1546.3	1464.3	1409.6	1355.0
40°	1722.0	1667.3	1597.1	1515.1	1503.3	1425.2	1390.1	1312.0	1261.2	1175.4	1167.5
42.5°	1503.3	1452.6	1390.1	1327.6	1280.8	1241.7	1151.9	1093.4	1038.7	995.8	984.0
45°	1304.2	1237.8	1183.2	1105.0	1058.2	1011.4	952.8	913.8	870.8	824.0	796.6
47.5°	1132.4	1077.8	999.6	929.4	882.5	859.0	792.6	749.8	714.6	683.4	663.8
50°	956.7	890.3	847.4	769.2	761.4	706.8	652.2	617.0	597.4	570.2	542.8
52.5°	824.0	761.4	702.8	644.4	613.0	593.6	542.8	507.6	480.4	460.8	445.2
55°	695.0	640.4	593.6	535.0	515.4	488.2	429.6	421.8	394.4	367.0	347.6
57.5°	597.4	546.6	492.0	453.0	417.8	398.4	351.4	320.2	304.6	281.2	261.6
60°	507.6	453.0	410.0	363.2	347.6	320.2	285.0	257.8	238.2	218.6	199.2
62.5°	425.6	378.8	332.0	292.8	269.4	253.8	226.4	203.0	183.6	168.0	152.2
65°	351.4	308.4	269.4	230.4	218.6	199.2	179.6	160.2	144.4	125.0	109.4
67.5°	289.0	250.0	210.8	183.6	171.8	164.0	140.6	121.0	109.4	97.6	82.0
70°	226.4	199.2	168.0	144.4	132.8	121.0	105.4	93.8	78.0	70.2	58.6
72.5°	175.8	152.2	125.0	105.4	97.6	89.8	74.2	62.4	54.6	46.8	39.0
75°	125.0	105.4	89.8	70.2	66.4	62.4	50.8	43.0	35.2	27.4	23.4
77.5°	86.0	70.2	54.6	46.8	43.0	35.2	31.2	23.4	19.6	15.6	11.8
80°	46.8	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°	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5
2.5°	3252.7	3209.7	3221.5	3221.5	3213.7	3213.7	3205.9	3194.1	3198.1	3174.5	3123.9
5°	3217.5	3162.9	3155.1	3162.9	3131.7	3123.9	3108.3	3131.7	3061.3	3088.7	3057.5
7.5°	3116.1	3065.3	3053.5	3080.9	3041.9	3018.3	3014.5	3045.7	2983.3	2952.1	2916.9
10°	3002.7	2983.3	2948.1	2928.5	2916.9	2920.7	2889.5	2850.5	2838.7	2830.9	2799.7
12.5°	2901.3	2858.3	2827.1	2803.7	2795.9	2795.9	2745.1	2737.3	2702.1	2694.3	2647.5
15°	2780.1	2729.5	2709.9	2678.7	2651.3	2666.9	2608.3	2592.7	2581.1	2530.3	2538.1
17.5°	2674.7	2620.1	2573.3	2553.7	2530.3	2506.9	2452.1	2463.9	2436.5	2436.5	2366.3
20°	2538.1	2479.5	2444.3	2405.3	2405.3	2374.1	2335.1	2338.9	2303.7	2268.7	2206.1
22.5°	2393.7	2331.1	2288.1	2272.5	2233.5	2225.7	2178.9	2167.1	2120.3	2124.1	2069.5
25°	2241.3	2178.9	2120.3	2124.1	2089.1	2073.5	2046.1	1991.5	1971.9	1948.5	1932.9
27.5°	2061.7	2018.7	1967.9	1964.1	1897.7	1901.6	1866.5	1850.9	1804.0	1815.7	1780.5
30°	1897.7	1835.3	1788.3	1776.7	1749.3	1741.5	1686.9	1663.4	1671.3	1640.0	1620.5
32.5°	1729.8	1636.1	1616.5	1593.1	1577.5	1558.0	1518.9	1534.6	1499.4	1507.2	1476.0
35°	1507.2	1468.2	1417.4	1417.4	1401.8	1386.2	1358.9	1374.5	1339.3	1323.7	1292.5
37.5°	1319.8	1284.7	1233.9	1249.5	1222.2	1198.8	1175.4	1179.2	1148.0	1144.1	1112.8
40°	1116.8	1097.2	1062.1	1062.1	1042.6	1042.6	1030.8	1019.2	999.6	976.2	941.0
42.5°	925.4	909.8	894.2	898.2	870.8	894.2	863.0	882.5	820.0	816.2	792.6
45°	784.8	749.8	753.6	738.0	722.4	730.2	702.8	710.6	675.6	667.8	644.4
47.5°	636.6	624.8	601.4	593.6	593.6	581.8	570.2	566.2	550.6	531.0	499.8
50°	523.2	480.4	472.4	460.8	453.0	453.0	437.4	414.0	417.8	398.4	367.0
52.5°	410.0	374.8	359.2	355.4	339.8	332.0	312.4	296.8	285.0	277.2	257.8
55°	316.2	285.0	265.6	265.6	242.2	242.2	214.8	203.0	187.4	171.8	160.2
57.5°	238.2	222.6	203.0	187.4	179.6	160.2	144.4	125.0	113.2	89.8	74.2
60°	179.6	164.0	144.4	132.8	125.0	105.4	86.0	70.2	43.0	35.2	31.2
62.5°	132.8	117.2	97.6	89.8	82.0	66.4	46.8	23.4	11.8	11.8	11.8
65°	97.6	78.0	62.4	54.6	46.8	35.2	15.6	7.8	4.0	4.0	4.0
67.5°	66.4	50.8	35.2	31.2	23.4	11.8	4.0	4.0	4.0	4.0	4.0
70°	43.0	31.2	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 FEU4C559035 F4LC-SQLWW-LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5
2.5°	3178.5	3151.1	3166.7	3131.7	3147.3	3174.5	3155.1	3162.9
5°	3069.1	3053.5	3034.1	2983.3	3022.3	3053.5	3037.9	3034.1
7.5°	2952.1	2897.3	2924.7	2909.1	2901.3	2932.5	2897.3	2936.3
10°	2830.9	2791.9	2788.1	2760.7	2760.7	2784.1	2788.1	2764.5
12.5°	2651.3	2631.9	2631.9	2627.9	2623.9	2647.5	2651.3	2639.7
15°	2522.5	2514.7	2495.1	2491.3	2467.9	2502.9	2506.9	2502.9
17.5°	2366.3	2370.1	2350.7	2350.7	2366.3	2377.9	2346.7	2377.9
20°	2260.9	2241.3	2233.5	2198.3	2217.9	2237.5	2237.5	2241.3
22.5°	2108.5	2077.3	2089.1	2069.5	2057.7	2085.1	2085.1	2096.9
25°	1936.7	1936.7	1944.5	1932.9	1940.7	1956.3	1944.5	1971.9
27.5°	1772.7	1788.3	1788.3	1772.7	1780.5	1827.4	1846.9	1815.7
30°	1620.5	1624.4	1636.1	1628.3	1651.7	1667.3	1663.4	1686.9
32.5°	1448.7	1468.2	1476.0	1464.3	1472.1	1507.2	1487.7	1483.8
35°	1315.9	1280.8	1276.9	1280.8	1296.4	1304.2	1296.4	1323.7
37.5°	1124.6	1112.8	1097.2	1101.2	1112.8	1128.5	1136.3	1155.8
40°	941.0	925.4	925.4	921.6	909.8	952.8	952.8	952.8
42.5°	781.0	777.0	757.6	757.6	773.2	784.8	777.0	804.4
45°	640.4	624.8	613.0	613.0	624.8	624.8	636.6	632.6
47.5°	503.8	488.2	492.0	480.4	492.0	507.6	488.2	492.0
50°	378.8	378.8	371.0	378.8	374.8	378.8	371.0	363.2
52.5°	257.8	292.8	296.8	281.2	246.0	214.8	195.2	210.8
55°	148.4	132.8	132.8	128.8	121.0	117.2	105.4	117.2
57.5°	74.2	66.4	66.4	66.4	62.4	58.6	50.8	50.8
60°	31.2	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)