

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 FEU4C609050 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: FLDSQ4C60D010 FEU4C609050 F4LC-SQLWW-LI
 Description: 4 INCH 6000 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND F4LC-SQLWW TRIM WITH LI FINISH
 Light Source: -
 Ballast/Driver: -

Summary

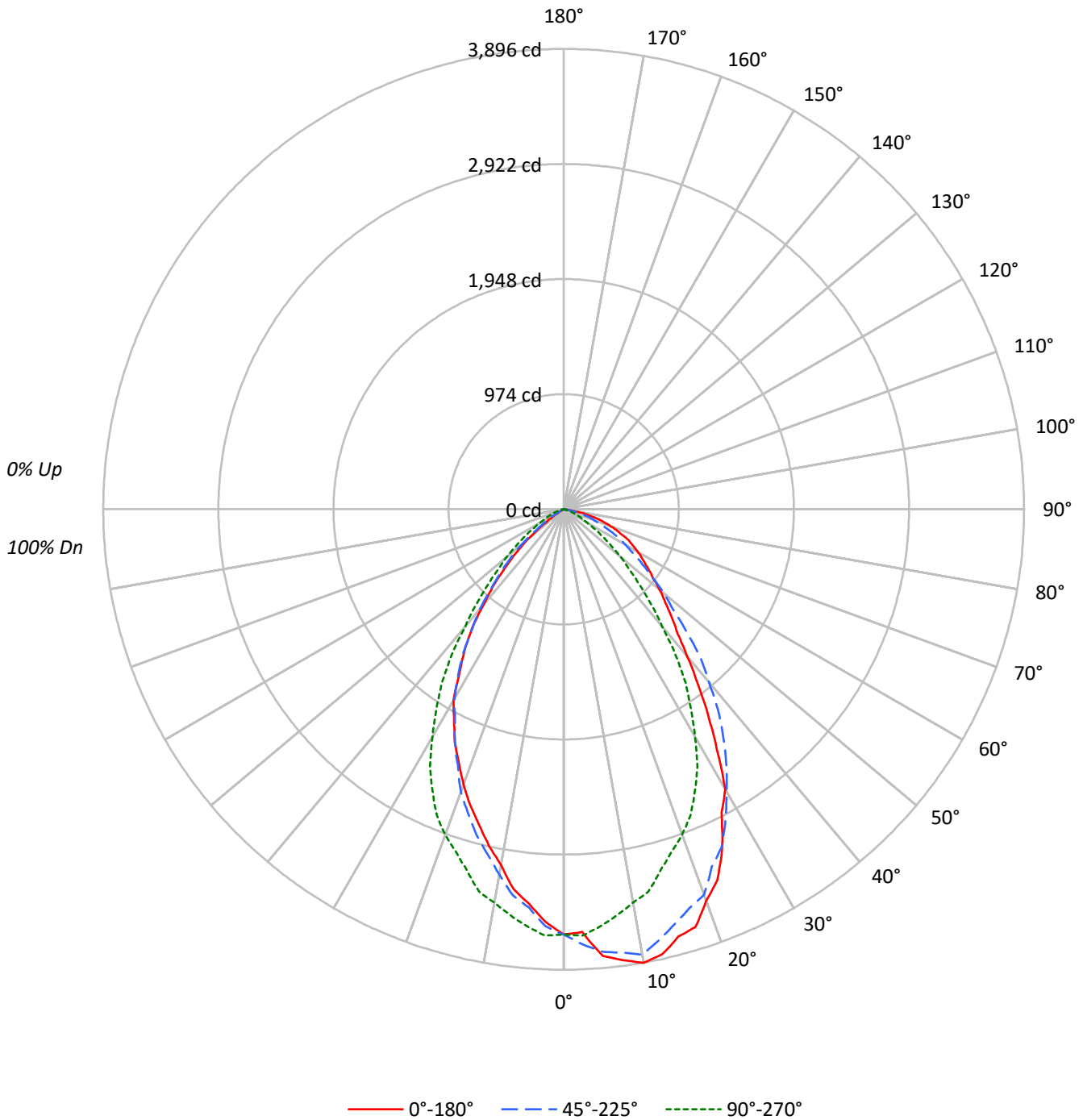
Lumens per Lamp: N/A
 Luminaire Lumens: 5158.0 lumens
 Efficiency: N/A
 Efficacy: 71.6 lumens/watt
 Spacing Criteria (0/90/45): 1.01 / 1 / 1.06
 Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
 CIE Type: Direct

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

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Luminous Intensity Polar Plot



TEST NUMBER: P#

CATALOG NUMBER: FLDSQ4C60D010 FEU4C609050 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				100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72				72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64				64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58				58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	54	53				53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48				48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44				44
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41				41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38				38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	347196	347196	347196
5°	367342	343108	324724
10°	381740	331007	299292
15°	374108	315921	276273
20°	361962	300815	254301
25°	337628	279733	231974
30°	304789	247566	207679
35°	251060	211942	172293
40°	204895	163581	132608
45°	176042	124229	95383
50°	159327	94569	60239
55°	146623	68215	21785
60°	140719	46623	3319
65°	135937	31530	1005
70°	121704	21892	1241
75°	99762	11296	0
80°	62345	4779	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.1	6.5
10°-20°	908.3	17.6
20°-30°	1212.9	23.5
30°-40°	1151.4	22.3
40°-50°	795.9	15.4
50°-60°	439.8	8.5
60°-70°	218.4	4.2
70°-80°	86.0	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°	2458.4	47.7
0°-40°	3609.8	70.0
0°-60°	4845.4	93.9
0°-90°	5158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5158.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3598	3598	3598	3598	3598	
5°	3793	3758	3542	3383	3353	363
15°	3745	3633	3163	2852	2766	1059
25°	3171	3158	2628	2179	2179	1446
35°	2131	2356	1799	1480	1463	1335
45°	1290	1480	910	746	699	1006
55°	872	820	406	207	130	785
65°	595	431	138	4	4	578
75°	268	164	30	0	0	285
85°	0	4	0	0	0	25
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°	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3
2.5°	3581.1	3680.3	3688.9	3680.3	3693.3	3688.9	3710.6	3688.9	3715.0	3676.1	3684.7
5°	3792.6	3753.7	3835.7	3792.6	3792.6	3788.3	3775.3	3770.9	3788.3	3732.2	3758.1
7.5°	3848.7	3904.8	3978.2	3887.6	3891.8	3891.8	3865.9	3857.3	3857.3	3753.7	3783.9
10°	3896.2	3861.5	3900.4	3865.9	3896.2	3891.8	3909.0	3852.9	3891.8	3831.4	3827.0
12.5°	3857.3	3844.3	3896.2	3840.1	3822.8	3827.0	3805.6	3792.6	3805.6	3736.4	3732.2
15°	3745.1	3758.1	3835.7	3775.3	3766.7	3758.1	3732.2	3688.9	3723.6	3628.6	3633.0
17.5°	3706.4	3684.7	3697.7	3645.8	3658.9	3650.2	3645.8	3607.1	3598.3	3538.0	3538.0
20°	3525.1	3572.5	3572.5	3538.0	3538.0	3533.8	3477.6	3512.1	3473.2	3456.0	3473.2
22.5°	3399.9	3404.3	3404.3	3374.0	3378.4	3361.2	3330.9	3309.3	3330.9	3309.3	3274.8
25°	3171.3	3180.0	3231.7	3175.6	3167.0	3184.2	3158.3	3145.3	3141.1	3089.4	3158.3
27.5°	2895.1	2981.3	2977.1	2955.5	2981.3	2946.9	2934.0	2938.2	2951.3	2946.9	2964.1
30°	2735.6	2748.4	2761.4	2744.2	2748.4	2735.6	2735.6	2739.8	2774.3	2761.4	2757.0
32.5°	2411.9	2455.0	2489.6	2489.6	2493.8	2506.9	2502.5	2593.1	2614.7	2571.6	2563.0
35°	2131.4	2161.7	2191.8	2196.2	2252.3	2256.5	2260.9	2286.8	2347.1	2360.1	2355.7
37.5°	1864.0	1894.1	1902.7	1941.6	1971.8	2001.9	2036.6	2071.1	2122.8	2165.9	2144.4
40°	1626.7	1639.5	1661.1	1678.4	1738.7	1738.7	1756.0	1825.1	1881.2	1915.7	1911.3
42.5°	1428.2	1432.4	1449.7	1479.9	1536.1	1523.0	1536.1	1583.6	1665.4	1669.8	1717.3
45°	1290.1	1285.7	1298.7	1303.0	1337.6	1354.8	1363.5	1398.0	1466.9	1475.5	1479.9
47.5°	1165.0	1160.6	1182.3	1190.9	1203.7	1221.0	1221.0	1225.4	1251.2	1272.9	1255.6
50°	1061.4	1061.4	1061.4	1070.0	1091.7	1087.3	1091.7	1108.9	1121.7	1113.1	1108.9
52.5°	949.2	966.4	979.4	983.8	988.0	988.0	992.4	983.8	979.4	966.4	940.5
55°	871.6	888.8	888.8	888.8	888.8	906.1	884.6	888.8	888.8	854.3	819.8
57.5°	794.0	811.2	824.1	806.8	824.1	806.8	798.2	794.0	785.2	750.7	699.0
60°	729.2	737.9	733.5	729.2	737.9	724.8	716.2	699.0	690.4	642.9	608.4
62.5°	655.9	660.1	664.5	655.9	647.3	642.9	625.6	599.8	582.5	543.6	513.4
65°	595.4	582.5	578.1	573.9	565.3	552.3	539.4	509.1	496.1	461.6	431.4
67.5°	504.8	500.5	509.1	496.1	474.7	474.7	461.6	435.8	405.5	384.1	353.8
70°	431.4	427.2	418.5	405.5	401.3	384.1	384.1	353.8	345.2	306.3	280.4
72.5°	353.8	353.8	340.8	327.9	314.9	306.3	302.1	280.4	267.6	246.0	224.3
75°	267.6	267.6	263.2	250.2	241.6	232.9	228.7	211.5	198.5	177.0	164.0
77.5°	189.8	189.8	172.6	164.0	168.2	159.6	151.0	146.7	142.3	129.5	112.2
80°	112.2	107.8	95.0	99.2	95.0	95.0	90.6	86.2	77.6	69.0	60.3
82.5°	30.3	34.5	34.5	34.5	38.9	30.3	30.3	30.3	34.5	34.5	21.6
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	8.6	17.2	17.2	17.2	17.2	17.2	13.0	13.0	13.0	8.6
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°	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3
2.5°	3641.6	3637.2	3641.6	3611.4	3680.3	3628.6	3620.0	3611.4	3641.6	3611.4	3568.2
5°	3719.2	3676.1	3663.1	3650.2	3688.9	3628.6	3615.7	3620.0	3598.3	3542.4	3546.6
7.5°	3745.1	3706.4	3667.5	3585.5	3620.0	3607.1	3572.5	3546.6	3512.1	3464.6	3456.0
10°	3753.7	3710.6	3654.5	3628.6	3576.9	3559.6	3546.6	3503.5	3460.4	3378.4	3356.8
12.5°	3727.8	3676.1	3607.1	3585.5	3546.6	3490.5	3460.4	3417.1	3378.4	3313.7	3266.2
15°	3615.7	3572.5	3551.0	3477.6	3460.4	3425.7	3365.4	3305.1	3248.9	3162.6	3136.7
17.5°	3486.3	3469.0	3447.4	3391.3	3387.0	3352.6	3296.4	3244.5	3171.3	3037.5	2994.4
20°	3352.6	3352.6	3283.4	3262.0	3305.1	3235.9	3192.8	3145.3	2994.4	2929.6	2852.0
22.5°	3253.3	3205.8	3167.0	3132.5	3136.7	3093.6	3033.2	2938.2	2882.1	2804.5	2713.9
25°	3059.1	3076.3	2990.1	2977.1	2990.1	2890.7	2860.7	2782.9	2700.9	2627.5	2558.6
27.5°	2938.2	2890.7	2834.8	2787.3	2787.3	2748.4	2662.2	2645.0	2519.7	2450.7	2364.4
30°	2757.0	2722.5	2675.0	2606.1	2597.5	2567.2	2498.2	2455.0	2325.6	2222.0	2174.5
32.5°	2528.3	2515.5	2476.6	2399.0	2373.1	2338.5	2252.3	2178.9	2118.6	2001.9	1946.0
35°	2364.4	2317.0	2235.0	2170.3	2148.7	2088.3	2019.2	1967.4	1902.7	1799.3	1725.9
37.5°	2118.6	2071.1	1993.3	1915.7	1915.7	1855.4	1760.4	1708.6	1618.0	1557.5	1497.2
40°	1902.7	1842.4	1764.8	1674.2	1661.1	1574.8	1536.1	1449.7	1393.6	1298.7	1290.1
42.5°	1661.1	1605.0	1536.1	1466.9	1415.2	1372.1	1272.9	1208.1	1147.8	1100.3	1087.3
45°	1441.1	1367.7	1307.3	1221.0	1169.2	1117.5	1052.8	1009.7	962.2	910.4	880.2
47.5°	1251.2	1190.9	1104.5	1026.9	975.2	949.2	875.8	828.5	789.6	755.1	733.5
50°	1057.2	983.8	936.3	849.9	841.3	781.0	720.6	681.7	660.1	630.0	599.8
52.5°	910.4	841.3	776.6	712.0	677.3	655.9	599.8	560.9	530.8	509.1	491.9
55°	767.9	707.6	655.9	591.1	569.5	539.4	474.7	466.0	435.8	405.5	384.1
57.5°	660.1	604.0	543.6	500.5	461.6	440.2	388.3	353.8	336.6	310.7	289.1
60°	560.9	500.5	453.0	401.3	384.1	353.8	314.9	284.8	263.2	241.6	220.1
62.5°	470.3	418.5	366.8	323.5	297.7	280.4	250.2	224.3	202.8	185.6	168.2
65°	388.3	340.8	297.7	254.6	241.6	220.1	198.5	177.0	159.6	138.1	120.9
67.5°	319.3	276.2	232.9	202.8	189.8	181.2	155.3	133.7	120.9	107.8	90.6
70°	250.2	220.1	185.6	159.6	146.7	133.7	116.5	103.6	86.2	77.6	64.7
72.5°	194.2	168.2	138.1	116.5	107.8	99.2	82.0	69.0	60.3	51.7	43.1
75°	138.1	116.5	99.2	77.6	73.4	69.0	56.1	47.5	38.9	30.3	25.9
77.5°	95.0	77.6	60.3	51.7	47.5	38.9	34.5	25.9	21.6	17.2	13.0
80°	51.7	38.9	30.3	25.9	21.6	17.2	17.2	13.0	8.6	8.6	4.4
82.5°	17.2	13.0	8.6	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°	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3
2.5°	3594.1	3546.6	3559.6	3559.6	3551.0	3551.0	3542.4	3529.4	3533.8	3507.7	3451.8
5°	3555.2	3494.9	3486.3	3494.9	3460.4	3451.8	3434.5	3460.4	3382.6	3412.9	3378.4
7.5°	3443.2	3387.0	3374.0	3404.3	3361.2	3335.1	3330.9	3365.4	3296.4	3262.0	3223.1
10°	3317.9	3296.4	3257.6	3235.9	3223.1	3227.3	3192.8	3149.7	3136.7	3128.1	3093.6
12.5°	3205.8	3158.3	3123.8	3098.0	3089.4	3089.4	3033.2	3024.6	2985.7	2977.1	2925.4
15°	3072.0	3016.0	2994.4	2959.9	2929.6	2946.9	2882.1	2864.9	2852.0	2795.9	2804.5
17.5°	2955.5	2895.1	2843.4	2821.8	2795.9	2770.0	2709.5	2722.5	2692.3	2692.3	2614.7
20°	2804.5	2739.8	2700.9	2657.8	2657.8	2623.3	2580.2	2584.4	2545.6	2506.9	2437.7
22.5°	2645.0	2575.8	2528.3	2511.1	2468.0	2459.4	2407.6	2394.6	2342.9	2347.1	2286.8
25°	2476.6	2407.6	2342.9	2347.1	2308.4	2291.2	2260.9	2200.6	2178.9	2153.1	2135.8
27.5°	2278.1	2230.6	2174.5	2170.3	2096.9	2101.2	2062.4	2045.2	1993.3	2006.3	1967.4
30°	2096.9	2028.0	1976.1	1963.2	1933.0	1924.3	1864.0	1838.0	1846.8	1812.1	1790.6
32.5°	1911.3	1807.9	1786.2	1760.4	1743.1	1721.5	1678.4	1695.6	1656.8	1665.4	1630.9
35°	1665.4	1622.3	1566.1	1566.1	1548.9	1531.7	1501.6	1518.8	1479.9	1462.7	1428.2
37.5°	1458.3	1419.6	1363.5	1380.7	1350.5	1324.6	1298.7	1303.0	1268.5	1264.2	1229.6
40°	1234.0	1212.3	1173.6	1173.6	1152.0	1152.0	1139.0	1126.1	1104.5	1078.6	1039.8
42.5°	1022.5	1005.3	988.0	992.4	962.2	988.0	953.6	975.2	906.1	901.8	875.8
45°	867.2	828.5	832.7	815.4	798.2	806.8	776.6	785.2	746.5	737.9	712.0
47.5°	703.4	690.4	664.5	655.9	655.9	642.9	630.0	625.6	608.4	586.7	552.3
50°	578.1	530.8	522.0	509.1	500.5	500.5	483.3	457.4	461.6	440.2	405.5
52.5°	453.0	414.1	396.9	392.7	375.4	366.8	345.2	327.9	314.9	306.3	284.8
55°	349.4	314.9	293.5	293.5	267.6	267.6	237.3	224.3	207.1	189.8	177.0
57.5°	263.2	246.0	224.3	207.1	198.5	177.0	159.6	138.1	125.1	99.2	82.0
60°	198.5	181.2	159.6	146.7	138.1	116.5	95.0	77.6	47.5	38.9	34.5
62.5°	146.7	129.5	107.8	99.2	90.6	73.4	51.7	25.9	13.0	13.0	13.0
65°	107.8	86.2	69.0	60.3	51.7	38.9	17.2	8.6	4.4	4.4	4.4
67.5°	73.4	56.1	38.9	34.5	25.9	13.0	4.4	4.4	4.4	4.4	4.4
70°	47.5	34.5	17.2	13.0	8.6	4.4	4.4	4.4	4.4	4.4	4.4
72.5°	30.3	17.2	8.6	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	17.2	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.6	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: FLDSQ4C60D010 FEU4C609050 F4LC-SQLWW-LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3	3598.3
2.5°	3512.1	3481.9	3499.1	3460.4	3477.6	3507.7	3486.3	3494.9
5°	3391.3	3374.0	3352.6	3296.4	3339.5	3374.0	3356.8	3352.6
7.5°	3262.0	3201.4	3231.7	3214.5	3205.8	3240.3	3201.4	3244.5
10°	3128.1	3085.0	3080.7	3050.5	3050.5	3076.3	3080.7	3054.7
12.5°	2929.6	2908.2	2908.2	2903.8	2899.4	2925.4	2929.6	2916.8
15°	2787.3	2778.7	2757.0	2752.8	2726.9	2765.7	2770.0	2765.7
17.5°	2614.7	2618.9	2597.5	2597.5	2614.7	2627.5	2593.1	2627.5
20°	2498.2	2476.6	2468.0	2429.1	2450.7	2472.4	2472.4	2476.6
22.5°	2329.9	2295.4	2308.4	2286.8	2273.7	2304.0	2304.0	2317.0
25°	2140.0	2140.0	2148.7	2135.8	2144.4	2161.7	2148.7	2178.9
27.5°	1958.8	1976.1	1976.1	1958.8	1967.4	2019.2	2040.8	2006.3
30°	1790.6	1794.9	1807.9	1799.3	1825.1	1842.4	1838.0	1864.0
32.5°	1600.8	1622.3	1630.9	1618.0	1626.7	1665.4	1643.9	1639.5
35°	1454.1	1415.2	1411.0	1415.2	1432.4	1441.1	1432.4	1462.7
37.5°	1242.6	1229.6	1212.3	1216.7	1229.6	1247.0	1255.6	1277.1
40°	1039.8	1022.5	1022.5	1018.3	1005.3	1052.8	1052.8	1052.8
42.5°	862.9	858.6	837.1	837.1	854.3	867.2	858.6	888.8
45°	707.6	690.4	677.3	677.3	690.4	690.4	703.4	699.0
47.5°	556.6	539.4	543.6	530.8	543.6	560.9	539.4	543.6
50°	418.5	418.5	409.9	418.5	414.1	418.5	409.9	401.3
52.5°	284.8	323.5	327.9	310.7	271.8	237.3	215.7	232.9
55°	164.0	146.7	146.7	142.3	133.7	129.5	116.5	129.5
57.5°	82.0	73.4	73.4	73.4	69.0	64.7	56.1	56.1
60°	34.5	30.3	30.3	25.9	21.6	17.2	13.0	17.2
62.5°	13.0	8.6	8.6	8.6	8.6	8.6	8.6	8.6
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)