

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 FEU4C609035 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 FEU4C609035 F4LC-SQLWW-LI
 Description: 4 INCH 6000 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND F4LC-SQLWW TRIM WITH LI FINISH
 Light Source: -
 Ballast/Driver: -

Summary

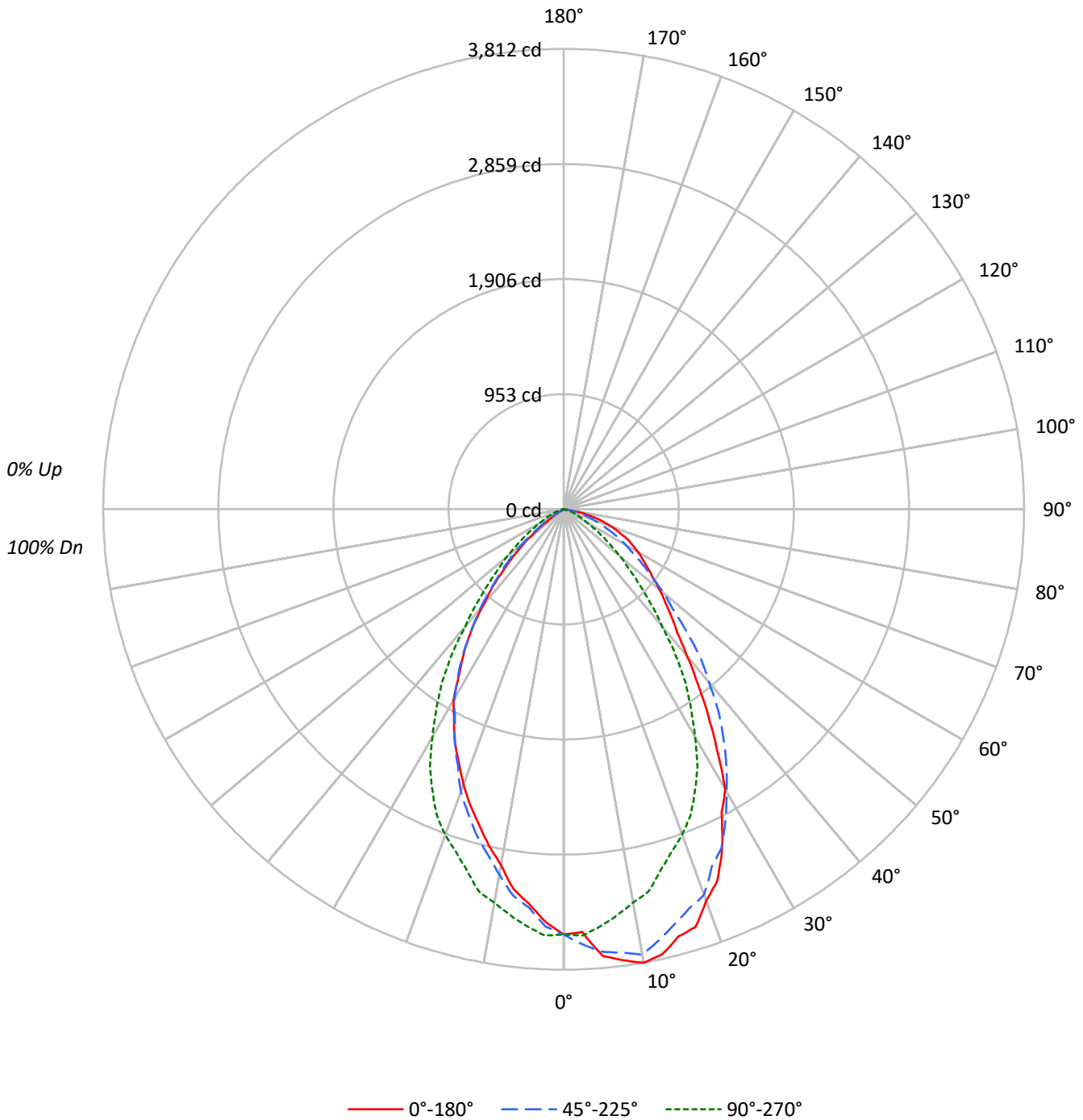
Lumens per Lamp: N/A
 Luminaire Lumens: 5047.0 lumens
 Efficiency: N/A
 Efficacy: 70.1 lumens/watt
 Spacing Criteria (0/90/45): 1.01 / 1 / 1.06
 Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
 CIE Type: Direct

Input Watts (W): 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 FEU4C609035 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°	339728	339728	339728
5°	359428	335727	317731
10°	373519	323884	292854
15°	366057	309118	270320
20°	354179	294346	248828
25°	330368	273718	226981
30°	298227	242240	203211
35°	245654	207371	168583
40°	200486	160067	129749
45°	172248	121569	93322
50°	155904	92543	58948
55°	143461	66751	21314
60°	137690	45620	3261
65°	132992	30845	982
70°	119081	21413	1213
75°	97600	11035	0
80°	61011	4668	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.9	6.5
10°-20°	888.8	17.6
20°-30°	1186.8	23.5
30°-40°	1126.6	22.3
40°-50°	778.8	15.4
50°-60°	430.3	8.5
60°-70°	213.7	4.2
70°-80°	84.2	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°	2405.5	47.7
0°-40°	3532.1	70.0
0°-60°	4741.1	93.9
0°-90°	5047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5047.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3521	3521	3521	3521	3521	
5°	3711	3677	3466	3310	3280	355
15°	3664	3555	3094	2791	2706	1037
25°	3103	3090	2571	2132	2132	1415
35°	2086	2305	1760	1448	1431	1307
45°	1262	1448	891	730	684	985
55°	853	802	397	203	127	768
65°	582	422	135	4	4	565
75°	262	160	30	0	0	279
85°	0	4	0	0	0	24
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°	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9
2.5°	3504.0	3601.1	3609.6	3601.1	3613.9	3609.6	3630.7	3609.6	3635.0	3597.0	3605.4
5°	3710.9	3672.9	3753.1	3710.9	3710.9	3706.8	3694.1	3689.8	3706.8	3651.9	3677.2
7.5°	3765.9	3820.8	3892.6	3803.9	3808.0	3808.0	3782.7	3774.3	3774.3	3672.9	3702.5
10°	3812.3	3778.4	3816.5	3782.7	3812.3	3808.0	3824.9	3770.0	3808.0	3749.0	3744.7
12.5°	3774.3	3761.6	3812.3	3757.4	3740.6	3744.7	3723.7	3710.9	3723.7	3656.0	3651.9
15°	3664.5	3677.2	3753.1	3694.1	3685.6	3677.2	3651.9	3609.6	3643.5	3550.5	3554.8
17.5°	3626.6	3605.4	3618.2	3567.4	3580.1	3571.7	3567.4	3529.5	3520.9	3461.9	3461.9
20°	3449.3	3495.6	3495.6	3461.9	3461.9	3457.7	3402.8	3436.5	3398.5	3381.6	3398.5
22.5°	3326.7	3331.0	3331.0	3301.4	3305.7	3288.8	3259.2	3238.1	3259.2	3238.1	3204.3
25°	3103.1	3111.5	3162.1	3107.2	3098.8	3115.7	3090.4	3077.6	3073.5	3022.9	3090.4
27.5°	2832.8	2917.2	2913.1	2891.9	2917.2	2883.4	2870.9	2875.0	2887.7	2883.4	2900.3
30°	2676.7	2689.3	2702.0	2685.1	2689.3	2676.7	2676.7	2680.8	2714.6	2702.0	2697.7
32.5°	2359.9	2402.1	2436.0	2436.0	2440.2	2452.9	2448.6	2537.3	2558.4	2516.3	2507.8
35°	2085.5	2115.2	2144.6	2148.9	2203.8	2207.9	2212.2	2237.6	2296.6	2309.3	2305.0
37.5°	1823.9	1853.3	1861.8	1899.8	1929.4	1958.9	1992.8	2026.5	2077.1	2119.3	2098.3
40°	1591.7	1604.2	1625.4	1642.3	1701.3	1701.3	1718.2	1785.8	1840.8	1874.5	1870.2
42.5°	1397.5	1401.6	1418.5	1448.1	1503.0	1490.3	1503.0	1549.5	1629.5	1633.8	1680.3
45°	1262.3	1258.0	1270.8	1274.9	1308.8	1325.7	1334.1	1367.9	1435.4	1443.8	1448.1
47.5°	1139.9	1135.6	1156.8	1165.3	1177.8	1194.7	1194.7	1199.0	1224.3	1245.5	1228.6
50°	1038.6	1038.6	1038.6	1047.0	1068.2	1063.9	1068.2	1085.0	1097.6	1089.2	1085.0
52.5°	928.7	945.6	958.3	962.6	966.8	966.8	971.1	962.6	958.3	945.6	920.3
55°	852.8	869.7	869.7	869.7	869.7	886.6	865.5	869.7	869.7	835.9	802.2
57.5°	776.9	793.8	806.3	789.5	806.3	789.5	781.0	776.9	768.3	734.5	683.9
60°	713.5	722.0	717.7	713.5	722.0	709.2	700.8	683.9	675.5	629.0	595.3
62.5°	641.8	645.9	650.2	641.8	633.3	629.0	612.2	586.8	570.0	531.9	502.3
65°	582.5	570.0	565.7	561.5	553.1	540.4	527.8	498.2	485.5	451.7	422.1
67.5°	493.9	489.8	498.2	485.5	464.4	464.4	451.7	426.4	396.8	375.8	346.2
70°	422.1	418.0	409.5	396.8	392.7	375.8	375.8	346.2	337.7	299.7	274.4
72.5°	346.2	346.2	333.4	320.9	308.1	299.7	295.6	274.4	261.8	240.7	219.5
75°	261.8	261.8	257.5	244.8	236.4	227.9	223.8	206.9	194.2	173.2	160.4
77.5°	185.7	185.7	168.9	160.4	164.6	156.1	147.7	143.6	139.3	126.7	109.8
80°	109.8	105.5	93.0	97.1	93.0	93.0	88.7	84.4	75.9	67.5	59.0
82.5°	29.6	33.7	33.7	33.7	38.0	29.6	29.6	29.6	33.7	33.7	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	12.7	12.7	12.7	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

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9
2.5°	3563.2	3558.9	3563.2	3533.6	3601.1	3550.5	3542.1	3533.6	3563.2	3533.6	3491.5
5°	3639.2	3597.0	3584.3	3571.7	3609.6	3550.5	3537.9	3542.1	3520.9	3466.2	3470.3
7.5°	3664.5	3626.6	3588.6	3508.3	3542.1	3529.5	3495.6	3470.3	3436.5	3390.1	3381.6
10°	3672.9	3630.7	3575.8	3550.5	3499.9	3483.0	3470.3	3428.1	3385.9	3305.7	3284.5
12.5°	3647.6	3597.0	3529.5	3508.3	3470.3	3415.4	3385.9	3343.6	3305.7	3242.4	3195.9
15°	3537.9	3495.6	3474.6	3402.8	3385.9	3352.0	3293.0	3233.9	3179.0	3094.5	3069.2
17.5°	3411.2	3394.4	3373.2	3318.3	3314.2	3280.4	3225.5	3174.7	3103.1	2972.1	2929.9
20°	3280.4	3280.4	3212.8	3191.8	3233.9	3166.3	3124.1	3077.6	2929.9	2866.6	2790.7
22.5°	3183.3	3136.8	3098.8	3065.1	3069.2	3027.0	2968.0	2875.0	2820.1	2744.2	2655.5
25°	2993.3	3010.1	2925.8	2913.1	2925.8	2828.5	2799.1	2723.0	2642.8	2571.0	2503.5
27.5°	2875.0	2828.5	2773.8	2727.3	2727.3	2689.3	2604.9	2588.0	2465.5	2398.0	2313.5
30°	2697.7	2664.0	2617.5	2550.0	2541.6	2512.0	2444.5	2402.1	2275.6	2174.2	2127.7
32.5°	2473.9	2461.3	2423.3	2347.4	2322.1	2288.2	2203.8	2132.0	2073.0	1958.9	1904.1
35°	2313.5	2267.2	2186.9	2123.6	2102.4	2043.4	1975.7	1925.1	1861.8	1760.5	1688.7
37.5°	2073.0	2026.5	1950.4	1874.5	1874.5	1815.4	1722.5	1671.9	1583.2	1524.0	1465.0
40°	1861.8	1802.7	1726.8	1638.1	1625.4	1540.9	1503.0	1418.5	1363.6	1270.8	1262.3
42.5°	1625.4	1570.5	1503.0	1435.4	1384.7	1342.6	1245.5	1182.1	1123.1	1076.6	1063.9
45°	1410.0	1338.3	1279.2	1194.7	1144.1	1093.5	1030.1	987.9	941.5	890.9	861.2
47.5°	1224.3	1165.3	1080.7	1004.8	954.2	928.7	856.9	810.6	772.6	738.8	717.7
50°	1034.4	962.6	916.2	831.6	823.2	764.2	705.1	667.1	645.9	616.5	586.8
52.5°	890.9	823.2	759.9	696.7	662.8	641.8	586.8	548.8	519.4	498.2	481.3
55°	751.4	692.4	641.8	578.4	557.2	527.8	464.4	456.0	426.4	396.8	375.8
57.5°	645.9	591.0	531.9	489.8	451.7	430.7	379.9	346.2	329.3	304.0	282.8
60°	548.8	489.8	443.3	392.7	375.8	346.2	308.1	278.7	257.5	236.4	215.4
62.5°	460.1	409.5	358.9	316.6	291.3	274.4	244.8	219.5	198.5	181.6	164.6
65°	379.9	333.4	291.3	249.1	236.4	215.4	194.2	173.2	156.1	135.1	118.3
67.5°	312.4	270.3	227.9	198.5	185.7	177.3	152.0	130.8	118.3	105.5	88.7
70°	244.8	215.4	181.6	156.1	143.6	130.8	114.0	101.4	84.4	75.9	63.3
72.5°	190.0	164.6	135.1	114.0	105.5	97.1	80.2	67.5	59.0	50.6	42.2
75°	135.1	114.0	97.1	75.9	71.8	67.5	54.9	46.5	38.0	29.6	25.3
77.5°	93.0	75.9	59.0	50.6	46.5	38.0	33.7	25.3	21.2	16.9	12.7
80°	50.6	38.0	29.6	25.3	21.2	16.9	16.9	12.7	8.4	8.4	4.3
82.5°	16.9	12.7	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

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9
2.5°	3516.8	3470.3	3483.0	3483.0	3474.6	3474.6	3466.2	3453.4	3457.7	3432.2	3377.5
5°	3478.7	3419.7	3411.2	3419.7	3385.9	3377.5	3360.6	3385.9	3309.9	3339.5	3305.7
7.5°	3369.1	3314.2	3301.4	3331.0	3288.8	3263.4	3259.2	3293.0	3225.5	3191.8	3153.7
10°	3246.5	3225.5	3187.5	3166.3	3153.7	3157.8	3124.1	3081.9	3069.2	3060.8	3027.0
12.5°	3136.8	3090.4	3056.6	3031.3	3022.9	3022.9	2968.0	2959.5	2921.5	2913.1	2862.4
15°	3005.8	2951.1	2929.9	2896.2	2866.6	2883.4	2820.1	2803.2	2790.7	2735.7	2744.2
17.5°	2891.9	2832.8	2782.2	2761.0	2735.7	2710.4	2651.2	2664.0	2634.4	2634.4	2558.4
20°	2744.2	2680.8	2642.8	2600.6	2600.6	2566.9	2524.7	2528.8	2490.8	2452.9	2385.3
22.5°	2588.0	2520.4	2473.9	2457.0	2414.9	2406.4	2355.8	2343.1	2292.5	2296.6	2237.6
25°	2423.3	2355.8	2292.5	2296.6	2258.7	2241.9	2212.2	2153.2	2132.0	2106.7	2089.8
27.5°	2229.1	2182.6	2127.7	2123.6	2051.8	2055.9	2018.1	2001.2	1950.4	1963.2	1925.1
30°	2051.8	1984.3	1933.5	1921.0	1891.4	1882.9	1823.9	1798.4	1807.0	1773.1	1752.1
32.5°	1870.2	1769.0	1747.8	1722.5	1705.6	1684.4	1642.3	1659.1	1621.1	1629.5	1595.8
35°	1629.5	1587.4	1532.4	1532.4	1515.6	1498.7	1469.3	1486.1	1448.1	1431.2	1397.5
37.5°	1426.9	1389.0	1334.1	1351.0	1321.4	1296.1	1270.8	1274.9	1241.2	1237.0	1203.1
40°	1207.4	1186.3	1148.4	1148.4	1127.2	1127.2	1114.5	1101.9	1080.7	1055.4	1017.4
42.5°	1000.5	983.6	966.8	971.1	941.5	966.8	933.0	954.2	886.6	882.4	856.9
45°	848.5	810.6	814.8	797.9	781.0	789.5	759.9	768.3	730.4	722.0	696.7
47.5°	688.2	675.5	650.2	641.8	641.8	629.0	616.5	612.2	595.3	574.1	540.4
50°	565.7	519.4	510.8	498.2	489.8	489.8	472.9	447.6	451.7	430.7	396.8
52.5°	443.3	405.2	388.4	384.2	367.4	358.9	337.7	320.9	308.1	299.7	278.7
55°	341.9	308.1	287.1	287.1	261.8	261.8	232.2	219.5	202.6	185.7	173.2
57.5°	257.5	240.7	219.5	202.6	194.2	173.2	156.1	135.1	122.4	97.1	80.2
60°	194.2	177.3	156.1	143.6	135.1	114.0	93.0	75.9	46.5	38.0	33.7
62.5°	143.6	126.7	105.5	97.1	88.7	71.8	50.6	25.3	12.7	12.7	12.7
65°	105.5	84.4	67.5	59.0	50.6	38.0	16.9	8.4	4.3	4.3	4.3
67.5°	71.8	54.9	38.0	33.7	25.3	12.7	4.3	4.3	4.3	4.3	4.3
70°	46.5	33.7	16.9	12.7	8.4	4.3	4.3	4.3	4.3	4.3	4.3
72.5°	29.6	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 FEU4C609035 F4LC-SQLWW-LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9	3520.9
2.5°	3436.5	3406.9	3423.8	3385.9	3402.8	3432.2	3411.2	3419.7
5°	3318.3	3301.4	3280.4	3225.5	3267.7	3301.4	3284.5	3280.4
7.5°	3191.8	3132.5	3162.1	3145.3	3136.8	3170.6	3132.5	3174.7
10°	3060.8	3018.6	3014.4	2984.8	2984.8	3010.1	3014.4	2989.0
12.5°	2866.6	2845.6	2845.6	2841.3	2837.0	2862.4	2866.6	2854.0
15°	2727.3	2718.9	2697.7	2693.6	2668.3	2706.1	2710.4	2706.1
17.5°	2558.4	2562.6	2541.6	2541.6	2558.4	2571.0	2537.3	2571.0
20°	2444.5	2423.3	2414.9	2376.8	2398.0	2419.2	2419.2	2423.3
22.5°	2279.7	2246.0	2258.7	2237.6	2224.8	2254.4	2254.4	2267.2
25°	2094.0	2094.0	2102.4	2089.8	2098.3	2115.2	2102.4	2132.0
27.5°	1916.7	1933.5	1933.5	1916.7	1925.1	1975.7	1996.9	1963.2
30°	1752.1	1756.2	1769.0	1760.5	1785.8	1802.7	1798.4	1823.9
32.5°	1566.4	1587.4	1595.8	1583.2	1591.7	1629.5	1608.5	1604.2
35°	1422.8	1384.7	1380.6	1384.7	1401.6	1410.0	1401.6	1431.2
37.5°	1215.9	1203.1	1186.3	1190.6	1203.1	1220.2	1228.6	1249.6
40°	1017.4	1000.5	1000.5	996.4	983.6	1030.1	1030.1	1030.1
42.5°	844.4	840.1	819.1	819.1	835.9	848.5	840.1	869.7
45°	692.4	675.5	662.8	662.8	675.5	675.5	688.2	683.9
47.5°	544.7	527.8	531.9	519.4	531.9	548.8	527.8	531.9
50°	409.5	409.5	401.1	409.5	405.2	409.5	401.1	392.7
52.5°	278.7	316.6	320.9	304.0	266.0	232.2	211.1	227.9
55°	160.4	143.6	143.6	139.3	130.8	126.7	114.0	126.7
57.5°	80.2	71.8	71.8	71.8	67.5	63.3	54.9	54.9
60°	33.7	29.6	29.6	25.3	21.2	16.9	12.7	16.9
62.5°	12.7	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)