

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: **FLDSQ4C90D010 FEU4C909035 F4LC-SQLWW-H**

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: FLDSQ4C90D010 FEU4C909035 F4LC-SQLWW-H  
 Description: 4 INCH 9000 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND F4LC-SQLWW TRIM WITH H FINISH  
 Light Source: -  
 Ballast/Driver: -

**Summary**

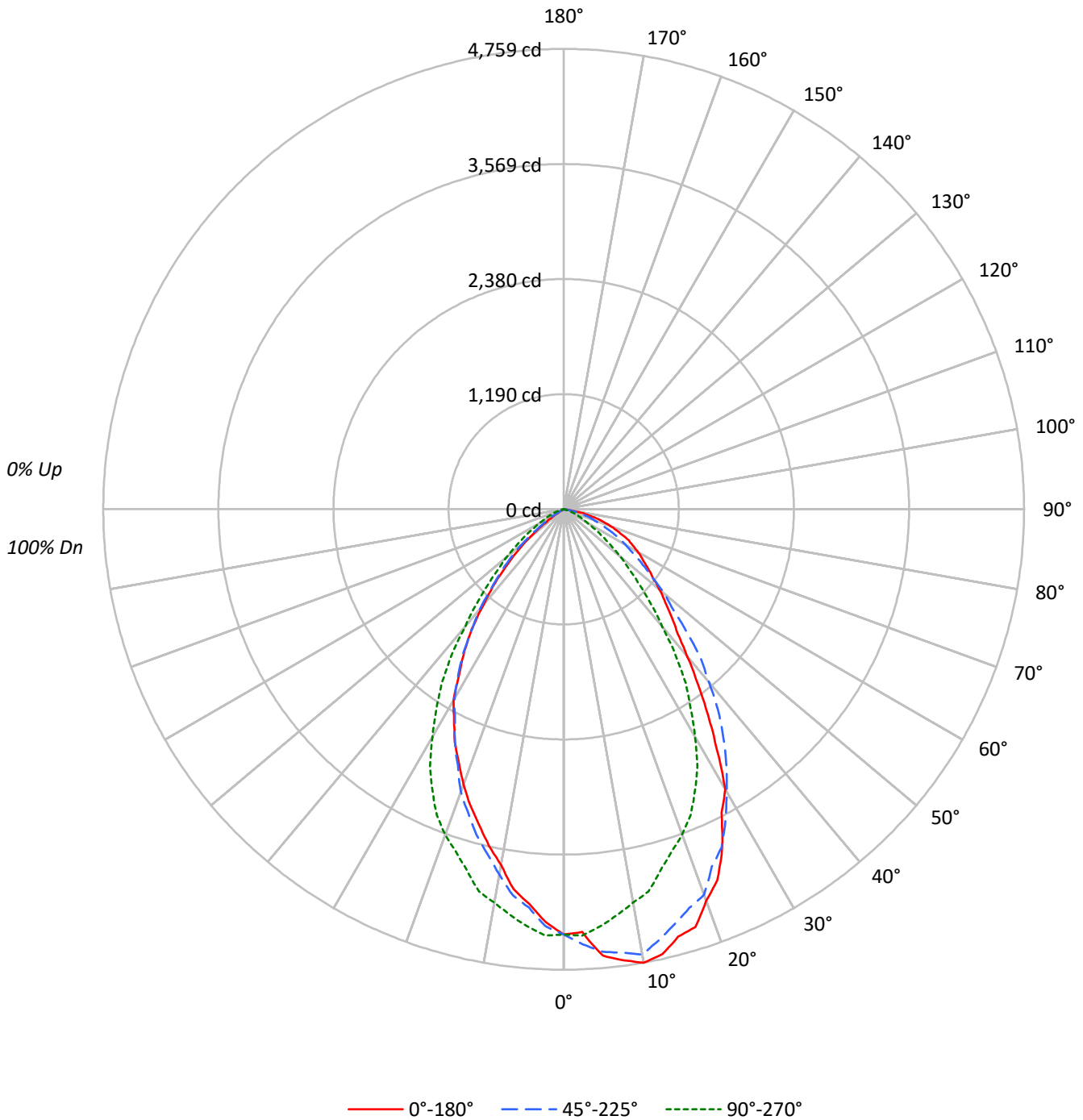
Lumens per Lamp: N/A  
 Luminaire Lumens: 6300.0 lumens  
 Efficiency: N/A  
 Efficacy: 64.9 lumens/watt  
 Spacing Criteria (0/90/45): 1.01 / 1 / 1.06  
 Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
 CIE Type: Direct

Input Watts (W): 97.1  
 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: FLDSQ4C90D010 FEU4C909035 F4LC-SQLWW-H

**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°	424069	424069	424069
5°	448673	419073	396612
10°	466255	404294	365554
15°	456929	385865	337437
20°	442105	367414	310601
25°	412387	341674	283332
30°	372262	302382	253660
35°	306646	258858	210434
40°	250252	199806	161968
45°	215014	151739	116492
50°	194603	115510	73569
55°	179074	83321	26613
60°	171885	56928	4072
65°	166029	38516	1233
70°	148646	26744	1523
75°	121832	13794	0
80°	76181	5834	0
85°	0	0	0

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.8	6.5
10°-20°	1109.4	17.6
20°-30°	1481.4	23.5
30°-40°	1406.3	22.3
40°-50°	972.1	15.4
50°-60°	537.1	8.5
60°-70°	266.7	4.2
70°-80°	105.1	1.7
80°-90°	10.0	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°	3002.7	47.7
0°-40°	4409.0	70.0
0°-60°	5918.2	93.9
0°-90°	6300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6300.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4395	4395	4395	4395	4395	
5°	4632	4590	4327	4132	4095	443
15°	4574	4437	3863	3484	3378	1294
25°	3874	3858	3209	2661	2661	1766
35°	2603	2877	2198	1808	1786	1631
45°	1576	1808	1112	912	854	1229
55°	1064	1001	495	253	158	958
65°	727	527	169	5	5	706
75°	327	200	37	0	0	348
85°	0	5	0	0	0	30
90°	0	0	0	0	0	

TEST NUMBER: P#  
 CATALOG NUMBER: FLDSQ4C90D010 FEU4C909035 F4LC-SQLWW-H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0
2.5°	4374.0	4495.2	4505.7	4495.2	4511.1	4505.7	4532.1	4505.7	4537.5	4490.0	4500.5
5°	4632.3	4584.8	4684.9	4632.3	4632.3	4627.1	4611.2	4605.8	4627.1	4558.5	4590.1
7.5°	4700.8	4769.3	4859.0	4748.3	4753.4	4753.4	4721.9	4711.3	4711.3	4584.8	4621.7
10°	4758.8	4716.5	4764.0	4721.9	4758.8	4753.4	4774.5	4706.0	4753.4	4679.7	4674.4
12.5°	4711.3	4695.4	4758.8	4690.3	4669.2	4674.4	4648.2	4632.3	4648.2	4563.7	4558.5
15°	4574.2	4590.1	4684.9	4611.2	4600.7	4590.1	4558.5	4505.7	4548.0	4432.0	4437.3
17.5°	4527.0	4500.5	4516.4	4453.0	4468.9	4458.4	4453.0	4405.8	4395.0	4321.3	4321.3
20°	4305.6	4363.4	4363.4	4321.3	4321.3	4316.2	4247.6	4289.7	4242.2	4221.2	4242.2
22.5°	4152.6	4158.0	4158.0	4121.0	4126.4	4105.4	4068.4	4042.0	4068.4	4042.0	3999.8
25°	3873.5	3884.0	3947.2	3878.7	3868.1	3889.2	3857.6	3841.7	3836.5	3773.4	3857.6
27.5°	3536.1	3641.4	3636.3	3609.8	3641.4	3599.3	3583.6	3588.8	3604.7	3599.3	3620.4
30°	3341.2	3356.9	3372.8	3351.8	3356.9	3341.2	3341.2	3346.4	3388.5	3372.8	3367.4
32.5°	2945.8	2998.5	3040.8	3040.8	3046.0	3061.9	3056.5	3167.2	3193.6	3141.0	3130.4
35°	2603.3	2640.3	2677.0	2682.4	2750.9	2756.1	2761.5	2793.1	2866.8	2882.7	2877.3
37.5°	2276.7	2313.4	2324.0	2371.5	2408.4	2445.2	2487.5	2529.6	2592.8	2645.4	2619.2
40°	1986.8	2002.5	2028.9	2050.0	2123.7	2123.7	2144.8	2229.2	2297.8	2339.9	2334.5
42.5°	1744.4	1749.6	1770.6	1807.6	1876.1	1860.3	1876.1	1934.2	2034.1	2039.5	2097.5
45°	1575.7	1570.4	1586.3	1591.4	1633.8	1654.8	1665.3	1707.5	1791.7	1802.2	1807.6
47.5°	1423.0	1417.6	1444.0	1454.5	1470.2	1491.3	1491.3	1496.7	1528.3	1554.7	1533.6
50°	1296.4	1296.4	1296.4	1306.9	1333.4	1328.0	1333.4	1354.4	1370.1	1359.6	1354.4
52.5°	1159.3	1180.4	1196.3	1201.6	1206.8	1206.8	1212.2	1201.6	1196.3	1180.4	1148.8
55°	1064.5	1085.6	1085.6	1085.6	1085.6	1106.7	1080.4	1085.6	1085.6	1043.5	1001.4
57.5°	969.8	990.8	1006.5	985.5	1006.5	985.5	974.9	969.8	959.0	916.9	853.7
60°	890.7	901.2	895.9	890.7	901.2	885.3	874.8	853.7	843.2	785.2	743.1
62.5°	801.1	806.2	811.6	801.1	790.6	785.2	764.1	732.5	711.5	664.0	627.0
65°	727.2	711.5	706.1	700.9	690.4	674.5	658.8	621.9	606.0	563.9	526.9
67.5°	616.5	611.3	621.9	606.0	579.8	579.8	563.9	532.3	495.3	469.1	432.1
70°	526.9	521.7	511.2	495.3	490.1	469.1	469.1	432.1	421.6	374.1	342.5
72.5°	432.1	432.1	416.2	400.5	384.6	374.1	369.0	342.5	326.8	300.4	274.0
75°	326.8	326.8	321.5	305.6	295.0	284.5	279.3	258.3	242.4	216.2	200.3
77.5°	231.9	231.9	210.8	200.3	205.4	194.9	184.4	179.2	173.8	158.2	137.1
80°	137.1	131.7	116.0	121.2	116.0	116.0	110.7	105.3	94.8	84.2	73.7
82.5°	37.0	42.1	42.1	42.1	47.5	37.0	37.0	37.0	42.1	42.1	26.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.4	5.4
87.5°	5.4	10.5	21.1	21.1	21.1	21.1	21.1	15.9	15.9	15.9	10.5
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°	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0
2.5°	4447.9	4442.5	4447.9	4410.9	4495.2	4432.0	4421.5	4410.9	4447.9	4410.9	4358.3
5°	4542.6	4490.0	4474.1	4458.4	4505.7	4432.0	4416.3	4421.5	4395.0	4326.7	4331.8
7.5°	4574.2	4527.0	4479.5	4379.3	4421.5	4405.8	4363.4	4331.8	4289.7	4231.7	4221.2
10°	4584.8	4532.1	4463.6	4432.0	4368.8	4347.7	4331.8	4279.2	4226.5	4126.4	4100.0
12.5°	4553.2	4490.0	4405.8	4379.3	4331.8	4263.3	4226.5	4173.7	4126.4	4047.3	3989.3
15°	4416.3	4363.4	4337.2	4247.6	4226.5	4184.2	4110.5	4036.8	3968.3	3862.8	3831.2
17.5°	4258.1	4237.1	4210.7	4142.1	4136.9	4094.8	4026.3	3962.9	3873.5	3710.0	3657.3
20°	4094.8	4094.8	4010.4	3984.2	4036.8	3952.4	3899.7	3841.7	3657.3	3578.2	3483.5
22.5°	3973.6	3915.6	3868.1	3826.0	3831.2	3778.5	3704.8	3588.8	3520.2	3425.5	3314.8
25°	3736.4	3757.5	3652.2	3636.3	3652.2	3530.8	3494.0	3399.0	3298.9	3209.3	3125.1
27.5°	3588.8	3530.8	3462.4	3404.4	3404.4	3356.9	3251.6	3230.6	3077.6	2993.3	2887.8
30°	3367.4	3325.3	3267.3	3183.1	3172.5	3135.6	3051.3	2998.5	2840.5	2714.0	2656.0
32.5°	3088.1	3072.4	3024.9	2930.2	2898.6	2856.2	2750.9	2661.3	2587.6	2445.2	2376.8
35°	2887.8	2830.0	2729.9	2650.8	2624.4	2550.7	2466.2	2403.0	2324.0	2197.6	2108.0
37.5°	2587.6	2529.6	2434.6	2339.9	2339.9	2266.2	2150.1	2086.9	1976.3	1902.4	1828.7
40°	2324.0	2250.3	2155.5	2044.8	2028.9	1923.4	1876.1	1770.6	1702.1	1586.3	1575.7
42.5°	2028.9	1960.4	1876.1	1791.7	1728.5	1675.9	1554.7	1475.6	1401.9	1343.9	1328.0
45°	1760.1	1670.5	1596.8	1491.3	1428.1	1364.9	1285.9	1233.2	1175.2	1112.0	1075.1
47.5°	1528.3	1454.5	1349.0	1254.3	1191.1	1159.3	1069.7	1011.9	964.4	922.3	895.9
50°	1291.2	1201.6	1143.6	1038.1	1027.6	953.9	880.2	832.7	806.2	769.5	732.5
52.5°	1112.0	1027.6	948.5	869.6	827.3	801.1	732.5	685.1	648.3	621.9	600.8
55°	938.0	864.3	801.1	722.0	695.6	658.8	579.8	569.2	532.3	495.3	469.1
57.5°	806.2	737.7	664.0	611.3	563.9	537.6	474.3	432.1	411.1	379.5	353.1
60°	685.1	611.3	553.3	490.1	469.1	432.1	384.6	347.9	321.5	295.0	268.8
62.5°	574.4	511.2	448.0	395.2	363.6	342.5	305.6	274.0	247.8	226.7	205.4
65°	474.3	416.2	363.6	310.9	295.0	268.8	242.4	216.2	194.9	168.7	147.6
67.5°	390.0	337.4	284.5	247.8	231.9	221.3	189.7	163.3	147.6	131.7	110.7
70°	305.6	268.8	226.7	194.9	179.2	163.3	142.3	126.6	105.3	94.8	79.1
72.5°	237.2	205.4	168.7	142.3	131.7	121.2	100.1	84.2	73.7	63.2	52.6
75°	168.7	142.3	121.2	94.8	89.6	84.2	68.5	58.0	47.5	37.0	31.6
77.5°	116.0	94.8	73.7	63.2	58.0	47.5	42.1	31.6	26.4	21.1	15.9
80°	63.2	47.5	37.0	31.6	26.4	21.1	21.1	15.9	10.5	10.5	5.4
82.5°	21.1	15.9	10.5	5.4	5.4	5.4	5.4	5.4	5.4	0.0	5.4
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°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	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°	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0
2.5°	4389.9	4331.8	4347.7	4347.7	4337.2	4337.2	4326.7	4310.8	4316.2	4284.4	4216.0
5°	4342.4	4268.7	4258.1	4268.7	4226.5	4216.0	4195.0	4226.5	4131.6	4168.5	4126.4
7.5°	4205.5	4136.9	4121.0	4158.0	4105.4	4073.6	4068.4	4110.5	4026.3	3984.2	3936.7
10°	4052.5	4026.3	3978.8	3952.4	3936.7	3941.8	3899.7	3847.1	3831.2	3820.6	3778.5
12.5°	3915.6	3857.6	3815.5	3783.9	3773.4	3773.4	3704.8	3694.3	3646.8	3636.3	3573.1
15°	3752.1	3683.8	3657.3	3615.2	3578.2	3599.3	3520.2	3499.2	3483.5	3414.9	3425.5
17.5°	3609.8	3536.1	3473.0	3446.5	3414.9	3383.3	3309.4	3325.3	3288.4	3288.4	3193.6
20°	3425.5	3346.4	3298.9	3246.3	3246.3	3204.1	3151.5	3156.6	3109.2	3061.9	2977.4
22.5°	3230.6	3146.1	3088.1	3067.0	3014.4	3003.9	2940.7	2924.8	2861.6	2866.8	2793.1
25°	3024.9	2940.7	2861.6	2866.8	2819.5	2798.4	2761.5	2687.8	2661.3	2629.7	2608.7
27.5°	2782.5	2724.5	2656.0	2650.8	2561.2	2566.4	2519.1	2498.0	2434.6	2450.5	2403.0
30°	2561.2	2477.0	2413.6	2397.9	2360.9	2350.4	2276.7	2244.9	2255.6	2213.3	2187.1
32.5°	2334.5	2208.1	2181.7	2150.1	2129.1	2102.6	2050.0	2071.1	2023.6	2034.1	1992.0
35°	2034.1	1981.4	1912.9	1912.9	1891.8	1870.8	1834.0	1855.1	1807.6	1786.5	1744.4
37.5°	1781.2	1733.9	1665.3	1686.4	1649.5	1617.9	1586.3	1591.4	1549.3	1544.2	1501.8
40°	1507.2	1480.8	1433.5	1433.5	1407.1	1407.1	1391.2	1375.5	1349.0	1317.5	1270.0
42.5°	1248.9	1227.8	1206.8	1212.2	1175.2	1206.8	1164.7	1191.1	1106.7	1101.5	1069.7
45°	1059.2	1011.9	1017.0	996.0	974.9	985.5	948.5	959.0	911.8	901.2	869.6
47.5°	859.1	843.2	811.6	801.1	801.1	785.2	769.5	764.1	743.1	716.6	674.5
50°	706.1	648.3	637.6	621.9	611.3	611.3	590.3	558.7	563.9	537.6	495.3
52.5°	553.3	505.8	484.8	479.6	458.6	448.0	421.6	400.5	384.6	374.1	347.9
55°	426.8	384.6	358.4	358.4	326.8	326.8	289.9	274.0	252.9	231.9	216.2
57.5°	321.5	300.4	274.0	252.9	242.4	216.2	194.9	168.7	152.8	121.2	100.1
60°	242.4	221.3	194.9	179.2	168.7	142.3	116.0	94.8	58.0	47.5	42.1
62.5°	179.2	158.2	131.7	121.2	110.7	89.6	63.2	31.6	15.9	15.9	15.9
65°	131.7	105.3	84.2	73.7	63.2	47.5	21.1	10.5	5.4	5.4	5.4
67.5°	89.6	68.5	47.5	42.1	31.6	15.9	5.4	5.4	5.4	5.4	5.4
70°	58.0	42.1	21.1	15.9	10.5	5.4	5.4	5.4	5.4	5.4	5.4
72.5°	37.0	21.1	10.5	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.1	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.5	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.4	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	5.4	5.4	5.4
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: FLDSQ4C90D010 FEU4C909035 F4LC-SQLWW-H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0	4395.0
2.5°	4289.7	4252.8	4273.8	4226.5	4247.6	4284.4	4258.1	4268.7
5°	4142.1	4121.0	4094.8	4026.3	4078.9	4121.0	4100.0	4094.8
7.5°	3984.2	3910.2	3947.2	3926.1	3915.6	3957.7	3910.2	3962.9
10°	3820.6	3768.0	3762.8	3725.9	3725.9	3757.5	3762.8	3731.0
12.5°	3578.2	3552.0	3552.0	3546.7	3541.3	3573.1	3578.2	3562.6
15°	3404.4	3393.9	3367.4	3362.3	3330.7	3378.0	3383.3	3378.0
17.5°	3193.6	3198.8	3172.5	3172.5	3193.6	3209.3	3167.2	3209.3
20°	3051.3	3024.9	3014.4	2966.9	2993.3	3019.8	3019.8	3024.9
22.5°	2845.7	2803.6	2819.5	2793.1	2777.2	2814.1	2814.1	2830.0
25°	2613.8	2613.8	2624.4	2608.7	2619.2	2640.3	2624.4	2661.3
27.5°	2392.5	2413.6	2413.6	2392.5	2403.0	2466.2	2492.7	2450.5
30°	2187.1	2192.2	2208.1	2197.6	2229.2	2250.3	2244.9	2276.7
32.5°	1955.2	1981.4	1992.0	1976.3	1986.8	2034.1	2007.9	2002.5
35°	1776.0	1728.5	1723.4	1728.5	1749.6	1760.1	1749.6	1786.5
37.5°	1517.7	1501.8	1480.8	1486.1	1501.8	1523.1	1533.6	1559.8
40°	1270.0	1248.9	1248.9	1243.7	1227.8	1285.9	1285.9	1285.9
42.5°	1054.0	1048.6	1022.4	1022.4	1043.5	1059.2	1048.6	1085.6
45°	864.3	843.2	827.3	827.3	843.2	843.2	859.1	853.7
47.5°	679.9	658.8	664.0	648.3	664.0	685.1	658.8	664.0
50°	511.2	511.2	500.7	511.2	505.8	511.2	500.7	490.1
52.5°	347.9	395.2	400.5	379.5	332.0	289.9	263.4	284.5
55°	200.3	179.2	179.2	173.8	163.3	158.2	142.3	158.2
57.5°	100.1	89.6	89.6	89.6	84.2	79.1	68.5	68.5
60°	42.1	37.0	37.0	31.6	26.4	21.1	15.9	21.1
62.5°	15.9	10.5	10.5	10.5	10.5	10.5	10.5	10.5
65°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
67.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
70°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
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)