

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: **FLDSQ4C75D010 FEU4C759035 F4LC-SQLWW-H**

Issue Date: 12/13/2022

Tested By:

Approved By:



Cooper Lighting Solutions laboratories have been accredited by National Voluntary Laboratory Accreditation Program (NVLAP) that it adheres to the requirements of ISO/IEC 17025:2005 and appropriate IESNA test methods. This report must not be used to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government. Results contained in this report are valid for luminaire sample tested, as supplied by requestor. Information related to the luminaire tested has been supplied by requestor and can affect the validity of the test results. Report shall not be reproduced except in full without approval of Cooper Lighting Solutions Lighting Laboratory. Test performed at address noted above.



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: FLDSQ4C75D010 FEU4C759035 F4LC-SQLWW-H
 Description: 4 INCH 7500 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND F4LC-SQLWW TRIM WITH H FINISH
 Light Source: -
 Ballast/Driver: -

Summary

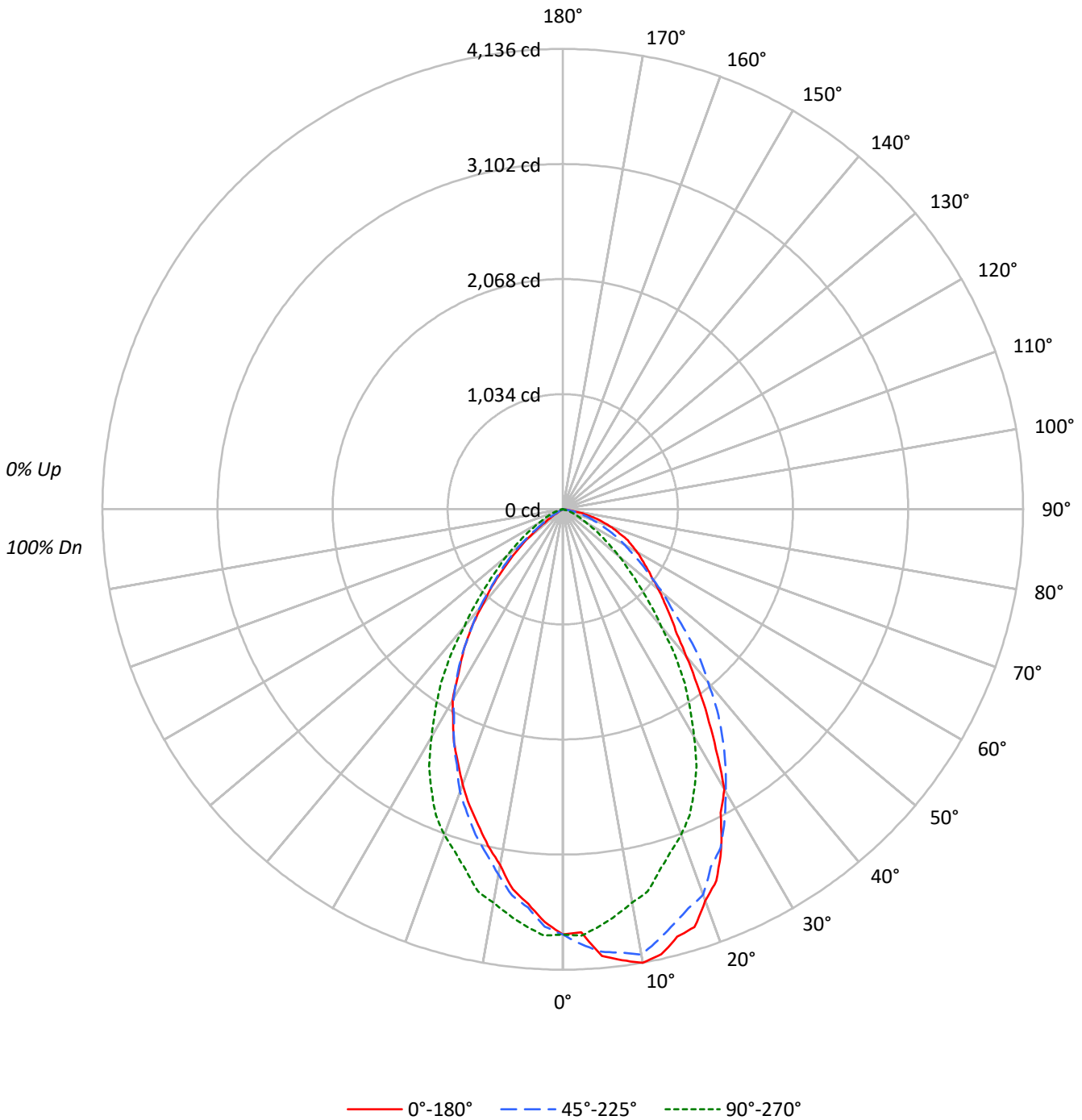
Lumens per Lamp: N/A
 Luminaire Lumens: 5476.0 lumens
 Efficiency: N/A
 Efficacy: 67.2 lumens/watt
 Spacing Criteria (0/90/45): 1.01 / 1 / 1.06
 Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
 CIE Type: Direct

Input Watts (W): 81.5
 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

TEST NUMBER: P#
CATALOG NUMBER: FLDSQ4C75D010 FEU4C759035 F4LC-SQLWW-H

Luminous Intensity Polar Plot



TEST NUMBER: P#

CATALOG NUMBER: FLDSQ4C75D010 FEU4C759035 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°	368607	368607	368607
5°	389987	364262	344735
10°	405274	351416	317741
15°	397173	335390	293305
20°	384285	319359	269980
25°	358453	296981	246283
30°	323574	262830	220481
35°	266538	225005	182918
40°	217528	173670	140782
45°	186890	131898	101264
50°	169144	100409	63947
55°	155657	72420	23131
60°	149403	49480	3531
65°	144316	33471	1073
70°	129209	23246	1326
75°	105914	11967	0
80°	66234	5112	0
85°	0	0	0

TEST NUMBER: P#
 CATALOG NUMBER: FLDSQ4C75D010 FEU4C759035 F4LC-SQLWW-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.9	6.5
10°-20°	964.3	17.6
20°-30°	1287.7	23.5
30°-40°	1222.4	22.3
40°-50°	845.0	15.4
50°-60°	466.9	8.5
60°-70°	231.8	4.2
70°-80°	91.3	1.7
80°-90°	8.7	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°	2609.9	47.7
0°-40°	3832.3	70.0
0°-60°	5144.1	93.9
0°-90°	5476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5476.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3820	3820	3820	3820	3820	
5°	4026	3990	3761	3591	3559	385
15°	3976	3857	3358	3028	2936	1125
25°	3367	3353	2790	2313	2313	1535
35°	2263	2501	1910	1571	1553	1418
45°	1370	1571	967	792	742	1068
55°	925	870	430	220	138	833
65°	632	458	147	5	5	614
75°	284	174	32	0	0	303
85°	0	5	0	0	0	26
90°	0	0	0	0	0	

TEST NUMBER: P#
 CATALOG NUMBER: FLDSQ4C75D010 FEU4C759035 F4LC-SQLWW-H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2
2.5°	3801.9	3907.2	3916.4	3907.2	3921.0	3916.4	3939.3	3916.4	3944.0	3902.7	3911.9
5°	4026.4	3985.1	4072.1	4026.4	4026.4	4021.9	4008.1	4003.4	4021.9	3962.3	3989.8
7.5°	4086.0	4145.5	4223.4	4127.2	4131.7	4131.7	4104.3	4095.1	4095.1	3985.1	4017.2
10°	4136.4	4099.6	4140.9	4104.3	4136.4	4131.7	4150.0	4090.5	4131.7	4067.7	4063.0
12.5°	4095.1	4081.3	4136.4	4076.8	4058.5	4063.0	4040.2	4026.4	4040.2	3966.8	3962.3
15°	3976.0	3989.8	4072.1	4008.1	3998.9	3989.8	3962.3	3916.4	3953.2	3852.3	3857.0
17.5°	3934.9	3911.9	3925.7	3870.6	3884.4	3875.3	3870.6	3829.5	3820.2	3756.1	3756.1
20°	3742.5	3792.7	3792.7	3756.1	3756.1	3751.6	3692.0	3728.7	3687.4	3669.1	3687.4
22.5°	3609.5	3614.2	3614.2	3582.0	3586.7	3568.4	3536.3	3513.3	3536.3	3513.3	3476.7
25°	3366.9	3376.0	3430.9	3371.4	3362.2	3380.5	3353.0	3339.2	3334.7	3279.8	3353.0
27.5°	3073.6	3165.2	3160.7	3137.7	3165.2	3128.5	3114.9	3119.4	3133.2	3128.5	3146.8
30°	2904.2	2917.9	2931.7	2913.4	2917.9	2904.2	2904.2	2908.7	2945.3	2931.7	2927.0
32.5°	2560.5	2606.3	2643.1	2643.1	2647.6	2661.4	2656.7	2752.9	2775.9	2730.1	2721.0
35°	2262.8	2294.9	2326.9	2331.6	2391.1	2395.6	2400.3	2427.7	2491.8	2505.6	2501.0
37.5°	1978.9	2010.9	2020.0	2061.3	2093.4	2125.4	2162.1	2198.8	2253.7	2299.4	2276.6
40°	1727.0	1740.6	1763.6	1781.9	1845.9	1845.9	1864.2	1937.6	1997.2	2033.8	2029.2
42.5°	1516.3	1520.8	1539.1	1571.2	1630.8	1616.9	1630.8	1681.2	1768.0	1772.7	1823.1
45°	1369.6	1365.0	1378.8	1383.3	1420.1	1438.4	1447.5	1484.1	1557.4	1566.5	1571.2
47.5°	1236.8	1232.2	1255.1	1264.3	1277.9	1296.2	1296.2	1300.9	1328.4	1351.3	1333.0
50°	1126.8	1126.8	1126.8	1136.0	1159.0	1154.3	1159.0	1177.3	1190.9	1181.7	1177.3
52.5°	1007.7	1026.0	1039.8	1044.5	1048.9	1048.9	1053.6	1044.5	1039.8	1026.0	998.5
55°	925.3	943.6	943.6	943.6	943.6	961.9	939.1	943.6	943.6	907.0	870.4
57.5°	842.9	861.2	874.9	856.6	874.9	856.6	847.4	842.9	833.6	797.0	742.1
60°	774.2	783.3	778.7	774.2	783.3	769.5	760.4	742.1	732.9	682.5	645.9
62.5°	696.3	700.8	705.5	696.3	687.2	682.5	664.2	636.7	618.4	577.1	545.0
65°	632.1	618.4	613.8	609.3	600.1	586.3	572.7	540.5	526.7	490.1	458.0
67.5°	535.9	531.4	540.5	526.7	503.9	503.9	490.1	462.7	430.5	407.7	375.6
70°	458.0	453.5	444.3	430.5	426.0	407.7	407.7	375.6	366.5	325.2	297.7
72.5°	375.6	375.6	361.8	348.2	334.3	325.2	320.7	297.7	284.1	261.1	238.1
75°	284.1	284.1	279.4	265.6	256.4	247.3	242.8	224.5	210.7	187.9	174.1
77.5°	201.5	201.5	183.2	174.1	178.6	169.4	160.3	155.8	151.1	137.5	119.2
80°	119.2	114.5	100.9	105.3	100.9	100.9	96.2	91.5	82.4	73.2	64.1
82.5°	32.1	36.6	36.6	36.6	41.3	32.1	32.1	32.1	36.6	36.6	23.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.7	4.7
87.5°	4.7	9.2	18.3	18.3	18.3	18.3	18.3	13.8	13.8	13.8	9.2
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: FLDSQ4C75D010 FEU4C759035 F4LC-SQLWW-H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2
2.5°	3866.1	3861.5	3866.1	3834.0	3907.2	3852.3	3843.2	3834.0	3866.1	3834.0	3788.2
5°	3948.5	3902.7	3888.9	3875.3	3916.4	3852.3	3838.7	3843.2	3820.2	3760.8	3765.3
7.5°	3976.0	3934.9	3893.6	3806.5	3843.2	3829.5	3792.7	3765.3	3728.7	3678.2	3669.1
10°	3985.1	3939.3	3879.8	3852.3	3797.4	3779.1	3765.3	3719.5	3673.7	3586.7	3563.7
12.5°	3957.6	3902.7	3829.5	3806.5	3765.3	3705.7	3673.7	3627.8	3586.7	3518.0	3467.5
15°	3838.7	3792.7	3769.9	3692.0	3673.7	3637.0	3572.9	3508.8	3449.2	3357.5	3330.1
17.5°	3701.2	3682.9	3659.9	3600.3	3595.9	3559.2	3499.7	3444.6	3366.9	3224.7	3179.0
20°	3559.2	3559.2	3485.8	3463.1	3508.8	3435.4	3389.7	3339.2	3179.0	3110.2	3027.9
22.5°	3453.9	3403.5	3362.2	3325.6	3330.1	3284.3	3220.2	3119.4	3059.8	2977.4	2881.2
25°	3247.7	3266.0	3174.5	3160.7	3174.5	3069.0	3037.0	2954.5	2867.4	2789.5	2716.3
27.5°	3119.4	3069.0	3009.6	2959.1	2959.1	2917.9	2826.3	2808.0	2675.0	2601.8	2510.1
30°	2927.0	2890.4	2840.0	2766.7	2757.6	2725.5	2652.3	2606.3	2469.0	2359.0	2308.6
32.5°	2684.2	2670.6	2629.3	2546.9	2519.5	2482.7	2391.1	2313.3	2249.2	2125.4	2066.0
35°	2510.1	2459.9	2372.8	2304.1	2281.1	2217.1	2143.7	2088.7	2020.0	1910.2	1832.3
37.5°	2249.2	2198.8	2116.2	2033.8	2033.8	1969.8	1868.9	1814.0	1717.8	1653.6	1589.5
40°	2020.0	1955.9	1873.6	1777.4	1763.6	1671.9	1630.8	1539.1	1479.5	1378.8	1369.6
42.5°	1763.6	1704.0	1630.8	1557.4	1502.4	1456.7	1351.3	1282.6	1218.5	1168.1	1154.3
45°	1529.9	1452.0	1388.0	1296.2	1241.3	1186.4	1117.7	1071.9	1021.5	966.6	934.5
47.5°	1328.4	1264.3	1172.6	1090.2	1035.3	1007.7	929.8	879.5	838.3	801.7	778.7
50°	1122.3	1044.5	994.0	902.3	893.2	829.1	765.0	723.8	700.8	668.9	636.7
52.5°	966.6	893.2	824.4	755.9	719.1	696.3	636.7	595.5	563.5	540.5	522.2
55°	815.3	751.2	696.3	627.6	604.6	572.7	503.9	494.8	462.7	430.5	407.7
57.5°	700.8	641.2	577.1	531.4	490.1	467.3	412.2	375.6	357.3	329.8	306.9
60°	595.5	531.4	481.0	426.0	407.7	375.6	334.3	302.4	279.4	256.4	233.7
62.5°	499.3	444.3	389.4	343.5	316.0	297.7	265.6	238.1	215.4	197.0	178.6
65°	412.2	361.8	316.0	270.3	256.4	233.7	210.7	187.9	169.4	146.6	128.3
67.5°	339.0	293.2	247.3	215.4	201.5	192.4	164.9	142.0	128.3	114.5	96.2
70°	265.6	233.7	197.0	169.4	155.8	142.0	123.6	110.0	91.5	82.4	68.7
72.5°	206.2	178.6	146.6	123.6	114.5	105.3	87.0	73.2	64.1	54.9	45.8
75°	146.6	123.6	105.3	82.4	77.9	73.2	59.6	50.4	41.3	32.1	27.5
77.5°	100.9	82.4	64.1	54.9	50.4	41.3	36.6	27.5	23.0	18.3	13.8
80°	54.9	41.3	32.1	27.5	23.0	18.3	18.3	13.8	9.2	9.2	4.7
82.5°	18.3	13.8	9.2	4.7	4.7	4.7	4.7	4.7	4.7	0.0	4.7
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°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	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

TEST NUMBER: P#
 CATALOG NUMBER: FLDSQ4C75D010 FEU4C759035 F4LC-SQLWW-H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2
2.5°	3815.7	3765.3	3779.1	3779.1	3769.9	3769.9	3760.8	3747.0	3751.6	3724.0	3664.6
5°	3774.4	3710.4	3701.2	3710.4	3673.7	3664.6	3646.3	3673.7	3591.2	3623.3	3586.7
7.5°	3655.4	3595.9	3582.0	3614.2	3568.4	3540.8	3536.3	3572.9	3499.7	3463.1	3421.8
10°	3522.5	3499.7	3458.4	3435.4	3421.8	3426.3	3389.7	3343.9	3330.1	3320.9	3284.3
12.5°	3403.5	3353.0	3316.4	3289.0	3279.8	3279.8	3220.2	3211.1	3169.8	3160.7	3105.7
15°	3261.3	3201.9	3179.0	3142.4	3110.2	3128.5	3059.8	3041.5	3027.9	2968.3	2977.4
17.5°	3137.7	3073.6	3018.7	2995.7	2968.3	2940.8	2876.6	2890.4	2858.3	2858.3	2775.9
20°	2977.4	2908.7	2867.4	2821.7	2821.7	2785.1	2739.3	2743.8	2702.5	2661.4	2588.0
22.5°	2808.0	2734.6	2684.2	2665.9	2620.1	2611.0	2556.1	2542.2	2487.3	2491.8	2427.7
25°	2629.3	2556.1	2487.3	2491.8	2450.7	2432.4	2400.3	2336.2	2313.3	2285.8	2267.5
27.5°	2418.6	2368.2	2308.6	2304.1	2226.2	2230.7	2189.6	2171.3	2116.2	2130.0	2088.7
30°	2226.2	2153.0	2097.9	2084.3	2052.1	2043.0	1978.9	1951.3	1960.6	1923.8	1901.0
32.5°	2029.2	1919.3	1896.4	1868.9	1850.6	1827.6	1781.9	1800.2	1758.9	1768.0	1731.4
35°	1768.0	1722.3	1662.7	1662.7	1644.4	1626.1	1594.2	1612.5	1571.2	1552.9	1516.3
37.5°	1548.2	1507.1	1447.5	1465.8	1433.7	1406.3	1378.8	1383.3	1346.7	1342.2	1305.4
40°	1310.1	1287.1	1246.0	1246.0	1223.0	1223.0	1209.2	1195.6	1172.6	1145.1	1103.9
42.5°	1085.6	1067.3	1048.9	1053.6	1021.5	1048.9	1012.3	1035.3	961.9	957.4	929.8
45°	920.6	879.5	884.0	865.7	847.4	856.6	824.4	833.6	792.5	783.3	755.9
47.5°	746.7	732.9	705.5	696.3	696.3	682.5	668.9	664.2	645.9	622.9	586.3
50°	613.8	563.5	554.2	540.5	531.4	531.4	513.1	485.6	490.1	467.3	430.5
52.5°	481.0	439.7	421.4	416.9	398.6	389.4	366.5	348.2	334.3	325.2	302.4
55°	370.9	334.3	311.5	311.5	284.1	284.1	252.0	238.1	219.8	201.5	187.9
57.5°	279.4	261.1	238.1	219.8	210.7	187.9	169.4	146.6	132.8	105.3	87.0
60°	210.7	192.4	169.4	155.8	146.6	123.6	100.9	82.4	50.4	41.3	36.6
62.5°	155.8	137.5	114.5	105.3	96.2	77.9	54.9	27.5	13.8	13.8	13.8
65°	114.5	91.5	73.2	64.1	54.9	41.3	18.3	9.2	4.7	4.7	4.7
67.5°	77.9	59.6	41.3	36.6	27.5	13.8	4.7	4.7	4.7	4.7	4.7
70°	50.4	36.6	18.3	13.8	9.2	4.7	4.7	4.7	4.7	4.7	4.7
72.5°	32.1	18.3	9.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	18.3	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.7	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	4.7	4.7	4.7
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: FLDSQ4C75D010 FEU4C759035 F4LC-SQLWW-H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2
2.5°	3728.7	3696.5	3714.8	3673.7	3692.0	3724.0	3701.2	3710.4
5°	3600.3	3582.0	3559.2	3499.7	3545.4	3582.0	3563.7	3559.2
7.5°	3463.1	3398.8	3430.9	3412.6	3403.5	3440.1	3398.8	3444.6
10°	3320.9	3275.2	3270.7	3238.6	3238.6	3266.0	3270.7	3243.0
12.5°	3110.2	3087.4	3087.4	3082.8	3078.1	3105.7	3110.2	3096.6
15°	2959.1	2950.0	2927.0	2922.5	2895.1	2936.2	2940.8	2936.2
17.5°	2775.9	2780.4	2757.6	2757.6	2775.9	2789.5	2752.9	2789.5
20°	2652.3	2629.3	2620.1	2578.9	2601.8	2624.8	2624.8	2629.3
22.5°	2473.5	2436.9	2450.7	2427.7	2413.9	2446.1	2446.1	2459.9
25°	2272.0	2272.0	2281.1	2267.5	2276.6	2294.9	2281.1	2313.3
27.5°	2079.6	2097.9	2097.9	2079.6	2088.7	2143.7	2166.6	2130.0
30°	1901.0	1905.5	1919.3	1910.2	1937.6	1955.9	1951.3	1978.9
32.5°	1699.5	1722.3	1731.4	1717.8	1727.0	1768.0	1745.3	1740.6
35°	1543.7	1502.4	1498.0	1502.4	1520.8	1529.9	1520.8	1552.9
37.5°	1319.2	1305.4	1287.1	1291.8	1305.4	1323.9	1333.0	1355.8
40°	1103.9	1085.6	1085.6	1081.1	1067.3	1117.7	1117.7	1117.7
42.5°	916.1	911.5	888.7	888.7	907.0	920.6	911.5	943.6
45°	751.2	732.9	719.1	719.1	732.9	732.9	746.7	742.1
47.5°	591.0	572.7	577.1	563.5	577.1	595.5	572.7	577.1
50°	444.3	444.3	435.2	444.3	439.7	444.3	435.2	426.0
52.5°	302.4	343.5	348.2	329.8	288.6	252.0	229.0	247.3
55°	174.1	155.8	155.8	151.1	142.0	137.5	123.6	137.5
57.5°	87.0	77.9	77.9	77.9	73.2	68.7	59.6	59.6
60°	36.6	32.1	32.1	27.5	23.0	18.3	13.8	18.3
62.5°	13.8	9.2	9.2	9.2	9.2	9.2	9.2	9.2
65°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
67.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
70°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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)