

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 FEU4C559050 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 FEU4C559050 F4LC-SQLWW-LI
 Description: 4 INCH 5500 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND F4LC-SQLWW TRIM WITH LI FINISH
 Light Source: -
 Ballast/Driver: -

Summary

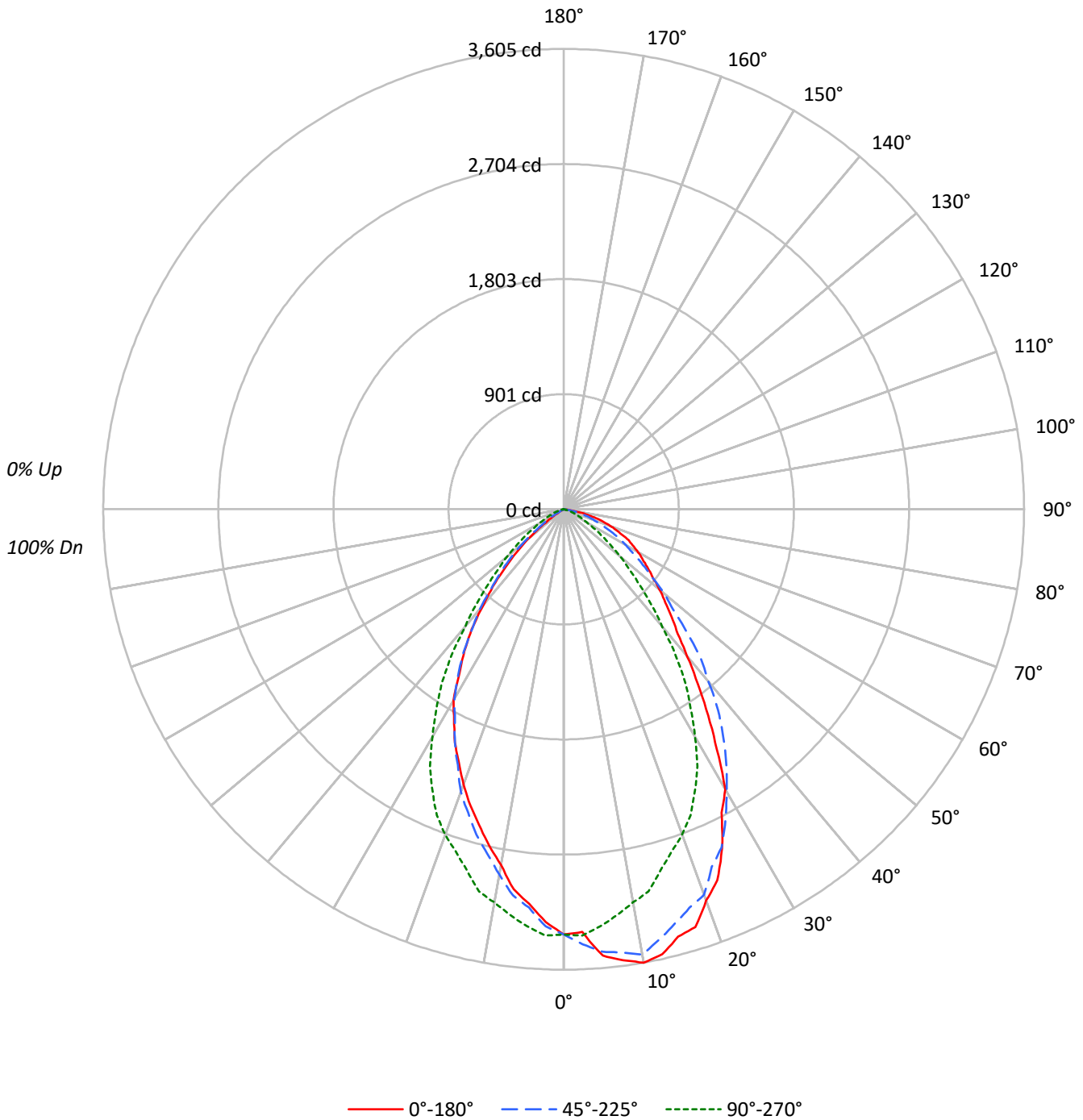
Lumens per Lamp: N/A
 Luminaire Lumens: 4772.0 lumens
 Efficiency: N/A
 Efficacy: 74.7 lumens/watt
 Spacing Criteria (0/90/45): 1.01 / 1 / 1.06
 Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
 CIE Type: Direct

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

TEST NUMBER: P#
CATALOG NUMBER: FLDSQ4C55D010 FEU4C559050 F4LC-SQLWW-LI

Luminous Intensity Polar Plot



TEST NUMBER: P#

CATALOG NUMBER: FLDSQ4C55D010 FEU4C559050 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°	321221	321221	321221
5°	339844	317431	300423
10°	353169	306238	276894
15°	346108	292276	255595
20°	334875	278307	235274
25°	312365	258803	214620
30°	281971	229037	192137
35°	232272	196075	159395
40°	189553	151338	122682
45°	162874	114937	88246
50°	147408	87499	55736
55°	135638	63117	20153
60°	130202	43131	3088
65°	125754	29178	936
70°	112592	20256	1157
75°	92306	10439	0
80°	57677	4445	0
85°	0	0	0

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 CATALOG NUMBER: FLDSQ4C55D010 FEU4C559050 F4LC-SQLWW-LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.9	6.5
10°-20°	840.3	17.6
20°-30°	1122.1	23.5
30°-40°	1065.2	22.3
40°-50°	736.3	15.4
50°-60°	406.8	8.5
60°-70°	202.0	4.2
70°-80°	79.6	1.7
80°-90°	7.6	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°	2274.4	47.7
0°-40°	3339.6	70.0
0°-60°	4482.8	93.9
0°-90°	4772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4772.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3329	3329	3329	3329	3329	
5°	3509	3477	3277	3130	3102	336
15°	3465	3361	2926	2639	2559	980
25°	2934	2922	2431	2016	2016	1338
35°	1972	2179	1665	1369	1353	1235
45°	1194	1369	842	691	647	931
55°	806	758	375	192	120	726
65°	551	399	128	4	4	535
75°	248	152	28	0	0	264
85°	0	4	0	0	0	23
90°	0	0	0	0	0	

TEST NUMBER: P#
 CATALOG NUMBER: FLDSQ4C55D010 FEU4C559050 F4LC-SQLWW-LI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3329.1	3329.1	3329.1	3329.1	3329.1	3329.1	3329.1	3329.1	3329.1	3329.1	3329.1
2.5°	3313.1	3404.9	3412.9	3404.9	3416.9	3412.9	3432.9	3412.9	3437.0	3401.0	3409.0
5°	3508.7	3472.8	3548.6	3508.7	3508.7	3504.8	3492.8	3488.7	3504.8	3452.9	3476.8
7.5°	3560.7	3612.6	3680.5	3596.6	3600.5	3600.5	3576.6	3568.6	3568.6	3472.8	3500.8
10°	3604.6	3572.6	3608.5	3576.6	3604.6	3600.5	3616.5	3564.6	3600.5	3544.7	3540.7
12.5°	3568.6	3556.6	3604.6	3552.7	3536.7	3540.7	3520.8	3508.7	3520.8	3456.8	3452.9
15°	3464.8	3476.8	3548.6	3492.8	3484.8	3476.8	3452.9	3412.9	3444.9	3357.1	3361.1
17.5°	3429.0	3409.0	3421.0	3373.0	3385.0	3377.1	3373.0	3337.2	3329.1	3273.2	3273.2
20°	3261.3	3305.1	3305.1	3273.2	3273.2	3269.3	3217.4	3249.3	3213.3	3197.4	3213.3
22.5°	3145.5	3149.5	3149.5	3121.5	3125.6	3109.6	3081.6	3061.6	3081.6	3061.6	3029.7
25°	2934.0	2942.0	2989.8	2937.9	2930.0	2945.9	2922.0	2909.9	2906.0	2858.2	2922.0
27.5°	2678.5	2758.2	2754.3	2734.3	2758.2	2726.3	2714.4	2718.4	2730.4	2726.3	2742.3
30°	2530.8	2542.7	2554.8	2538.8	2542.7	2530.8	2530.8	2534.8	2566.7	2554.8	2550.7
32.5°	2231.4	2271.2	2303.3	2303.3	2307.2	2319.3	2315.2	2399.0	2419.0	2379.1	2371.2
35°	1971.9	1999.9	2027.7	2031.8	2083.7	2087.6	2091.7	2115.6	2171.5	2183.5	2179.4
37.5°	1724.5	1752.3	1760.3	1796.3	1824.3	1852.1	1884.2	1916.1	1963.9	2003.8	1984.0
40°	1504.9	1516.8	1536.8	1552.8	1608.6	1608.6	1624.6	1688.5	1740.5	1772.4	1768.3
42.5°	1321.3	1325.2	1341.2	1369.2	1421.1	1409.1	1421.1	1465.1	1540.7	1544.8	1588.8
45°	1193.6	1189.5	1201.5	1205.4	1237.5	1253.5	1261.4	1293.3	1357.1	1365.1	1369.2
47.5°	1077.8	1073.8	1093.8	1101.8	1113.6	1129.6	1129.6	1133.7	1157.6	1177.6	1161.7
50°	982.0	982.0	982.0	989.9	1010.0	1005.9	1010.0	1025.9	1037.8	1029.8	1025.9
52.5°	878.1	894.1	906.1	910.2	914.1	914.1	918.2	910.2	906.1	894.1	870.1
55°	806.3	822.3	822.3	822.3	822.3	838.2	818.4	822.3	822.3	790.4	758.5
57.5°	734.6	750.5	762.4	746.4	762.4	746.4	738.5	734.6	726.4	694.5	646.7
60°	674.7	682.6	678.6	674.7	682.6	670.6	662.6	646.7	638.7	594.7	562.8
62.5°	606.8	610.7	614.8	606.8	598.8	594.7	578.8	554.9	538.9	502.9	475.0
65°	550.8	538.9	534.9	530.9	523.0	510.9	499.0	471.0	459.0	427.1	399.1
67.5°	467.0	463.1	471.0	459.0	439.1	439.1	427.1	403.2	375.2	355.3	327.3
70°	399.1	395.2	387.2	375.2	371.3	355.3	355.3	327.3	319.3	283.4	259.4
72.5°	327.3	327.3	315.3	303.4	291.4	283.4	279.5	259.4	247.6	227.5	207.5
75°	247.6	247.6	243.5	231.5	223.5	215.5	211.6	195.6	183.6	163.7	151.7
77.5°	175.6	175.6	159.7	151.7	155.6	147.6	139.7	135.7	131.7	119.8	103.8
80°	103.8	99.8	87.9	91.8	87.9	87.9	83.8	79.8	71.8	63.8	55.8
82.5°	28.0	31.9	31.9	31.9	36.0	28.0	28.0	28.0	31.9	31.9	20.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1	4.1
87.5°	4.1	8.0	16.0	16.0	16.0	16.0	16.0	12.0	12.0	12.0	8.0
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 FEU4C559050 F4LC-SQLWW-LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3329.1	3329.1	3329.1	3329.1	3329.1	3329.1	3329.1	3329.1	3329.1	3329.1	3329.1
2.5°	3369.1	3365.0	3369.1	3341.1	3404.9	3357.1	3349.1	3341.1	3369.1	3341.1	3301.2
5°	3440.9	3401.0	3389.0	3377.1	3412.9	3357.1	3345.2	3349.1	3329.1	3277.3	3281.2
7.5°	3464.8	3429.0	3393.0	3317.2	3349.1	3337.2	3305.1	3281.2	3249.3	3205.4	3197.4
10°	3472.8	3432.9	3381.0	3357.1	3309.2	3293.2	3281.2	3241.3	3201.4	3125.6	3105.6
12.5°	3448.9	3401.0	3337.2	3317.2	3281.2	3229.3	3201.4	3161.4	3125.6	3065.7	3021.8
15°	3345.2	3305.1	3285.3	3217.4	3201.4	3169.4	3113.6	3057.7	3005.8	2925.9	2902.0
17.5°	3225.4	3209.4	3189.4	3137.5	3133.6	3101.7	3049.7	3001.7	2934.0	2810.2	2770.3
20°	3101.7	3101.7	3037.7	3017.8	3057.7	2993.8	2953.9	2909.9	2770.3	2710.4	2638.6
22.5°	3009.9	2965.9	2930.0	2898.0	2902.0	2862.1	2806.2	2718.4	2666.4	2594.7	2510.8
25°	2830.2	2846.1	2766.4	2754.3	2766.4	2674.4	2646.6	2574.6	2498.8	2430.9	2367.1
27.5°	2718.4	2674.4	2622.6	2578.7	2578.7	2542.7	2463.0	2447.0	2331.1	2267.3	2187.4
30°	2550.7	2518.8	2474.9	2411.1	2403.1	2375.1	2311.3	2271.2	2151.6	2055.7	2011.8
32.5°	2339.1	2327.2	2291.3	2219.5	2195.5	2163.5	2083.7	2015.9	1960.0	1852.1	1800.4
35°	2187.4	2143.6	2067.8	2007.9	1987.9	1932.0	1868.1	1820.2	1760.3	1664.6	1596.7
37.5°	1960.0	1916.1	1844.1	1772.4	1772.4	1716.5	1628.6	1580.8	1497.0	1441.0	1385.1
40°	1760.3	1704.5	1632.7	1548.9	1536.8	1456.9	1421.1	1341.2	1289.3	1201.5	1193.6
42.5°	1536.8	1484.9	1421.1	1357.1	1309.3	1269.4	1177.6	1117.7	1061.9	1017.9	1005.9
45°	1333.2	1265.3	1209.5	1129.6	1081.7	1033.9	974.0	934.1	890.2	842.3	814.3
47.5°	1157.6	1101.8	1021.8	950.1	902.2	878.1	810.3	766.5	730.5	698.6	678.6
50°	978.1	910.2	866.2	786.3	778.3	722.5	666.7	630.7	610.7	582.9	554.9
52.5°	842.3	778.3	718.5	658.7	626.7	606.8	554.9	518.9	491.1	471.0	455.1
55°	710.5	654.6	606.8	546.9	526.9	499.0	439.1	431.2	403.2	375.2	355.3
57.5°	610.7	558.8	502.9	463.1	427.1	407.2	359.2	327.3	311.4	287.4	267.4
60°	518.9	463.1	419.1	371.3	355.3	327.3	291.4	263.5	243.5	223.5	203.6
62.5°	435.1	387.2	339.4	299.3	275.4	259.4	231.5	207.5	187.7	171.7	155.6
65°	359.2	315.3	275.4	235.5	223.5	203.6	183.6	163.7	147.6	127.8	111.8
67.5°	295.4	255.5	215.5	187.7	175.6	167.6	143.7	123.7	111.8	99.8	83.8
70°	231.5	203.6	171.7	147.6	135.7	123.7	107.8	95.9	79.8	71.8	59.9
72.5°	179.7	155.6	127.8	107.8	99.8	91.8	75.8	63.8	55.8	47.9	39.9
75°	127.8	107.8	91.8	71.8	67.9	63.8	51.9	43.9	36.0	28.0	23.9
77.5°	87.9	71.8	55.8	47.9	43.9	36.0	31.9	23.9	20.0	16.0	12.0
80°	47.9	36.0	28.0	23.9	20.0	16.0	16.0	12.0	8.0	8.0	4.1
82.5°	16.0	12.0	8.0	4.1	4.1	4.1	4.1	4.1	4.1	0.0	4.1
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°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	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: FLDSQ4C55D010 FEU4C559050 F4LC-SQLWW-LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3329.1	3329.1	3329.1	3329.1	3329.1	3329.1	3329.1	3329.1	3329.1	3329.1	3329.1
2.5°	3325.1	3281.2	3293.2	3293.2	3285.3	3285.3	3277.3	3265.2	3269.3	3245.2	3193.5
5°	3289.2	3233.3	3225.4	3233.3	3201.4	3193.5	3177.5	3201.4	3129.5	3157.5	3125.6
7.5°	3185.5	3133.6	3121.5	3149.5	3109.6	3085.6	3081.6	3113.6	3049.7	3017.8	2981.9
10°	3069.6	3049.7	3013.8	2993.8	2981.9	2985.8	2953.9	2914.0	2902.0	2894.0	2862.1
12.5°	2965.9	2922.0	2890.1	2866.1	2858.2	2858.2	2806.2	2798.3	2762.3	2754.3	2706.5
15°	2842.1	2790.3	2770.3	2738.4	2710.4	2726.3	2666.4	2650.5	2638.6	2586.7	2594.7
17.5°	2734.3	2678.5	2630.6	2610.6	2586.7	2562.7	2506.8	2518.8	2490.8	2490.8	2419.0
20°	2594.7	2534.8	2498.8	2458.9	2458.9	2427.0	2387.1	2391.0	2355.1	2319.3	2255.3
22.5°	2447.0	2383.1	2339.1	2323.2	2283.3	2275.3	2227.5	2215.4	2167.6	2171.5	2115.6
25°	2291.3	2227.5	2167.6	2171.5	2135.7	2119.7	2091.7	2035.9	2015.9	1991.9	1976.0
27.5°	2107.7	2063.7	2011.8	2007.9	1940.0	1943.9	1908.1	1892.2	1844.1	1856.2	1820.2
30°	1940.0	1876.2	1828.2	1816.3	1788.3	1780.3	1724.5	1700.4	1708.6	1676.5	1656.6
32.5°	1768.3	1672.6	1652.6	1628.6	1612.7	1592.7	1552.8	1568.7	1532.8	1540.7	1508.8
35°	1540.7	1500.9	1448.9	1448.9	1433.0	1417.0	1389.2	1405.2	1369.2	1353.2	1321.3
37.5°	1349.2	1313.4	1261.4	1277.4	1249.4	1225.5	1201.5	1205.4	1173.5	1169.6	1137.6
40°	1141.6	1121.6	1085.8	1085.8	1065.8	1065.8	1053.8	1041.9	1021.8	997.9	961.9
42.5°	946.0	930.0	914.1	918.2	890.2	914.1	882.2	902.2	838.2	834.3	810.3
45°	802.3	766.5	770.4	754.4	738.5	746.4	718.5	726.4	690.6	682.6	658.7
47.5°	650.7	638.7	614.8	606.8	606.8	594.7	582.9	578.8	562.8	542.8	510.9
50°	534.9	491.1	482.9	471.0	463.1	463.1	447.1	423.2	427.1	407.2	375.2
52.5°	419.1	383.2	367.2	363.3	347.3	339.4	319.3	303.4	291.4	283.4	263.5
55°	323.3	291.4	271.5	271.5	247.6	247.6	219.6	207.5	191.6	175.6	163.7
57.5°	243.5	227.5	207.5	191.6	183.6	163.7	147.6	127.8	115.7	91.8	75.8
60°	183.6	167.6	147.6	135.7	127.8	107.8	87.9	71.8	43.9	36.0	31.9
62.5°	135.7	119.8	99.8	91.8	83.8	67.9	47.9	23.9	12.0	12.0	12.0
65°	99.8	79.8	63.8	55.8	47.9	36.0	16.0	8.0	4.1	4.1	4.1
67.5°	67.9	51.9	36.0	31.9	23.9	12.0	4.1	4.1	4.1	4.1	4.1
70°	43.9	31.9	16.0	12.0	8.0	4.1	4.1	4.1	4.1	4.1	4.1
72.5°	28.0	16.0	8.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	16.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.1	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	4.1	4.1	4.1
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 FEU4C559050 F4LC-SQLWW-LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3329.1	3329.1	3329.1	3329.1	3329.1	3329.1	3329.1	3329.1
2.5°	3249.3	3221.3	3237.3	3201.4	3217.4	3245.2	3225.4	3233.3
5°	3137.5	3121.5	3101.7	3049.7	3089.6	3121.5	3105.6	3101.7
7.5°	3017.8	2961.9	2989.8	2973.9	2965.9	2997.8	2961.9	3001.7
10°	2894.0	2854.1	2850.2	2822.2	2822.2	2846.1	2850.2	2826.1
12.5°	2710.4	2690.5	2690.5	2686.5	2682.4	2706.5	2710.4	2698.5
15°	2578.7	2570.7	2550.7	2546.8	2522.9	2558.7	2562.7	2558.7
17.5°	2419.0	2422.9	2403.1	2403.1	2419.0	2430.9	2399.0	2430.9
20°	2311.3	2291.3	2283.3	2247.3	2267.3	2287.3	2287.3	2291.3
22.5°	2155.5	2123.6	2135.7	2115.6	2103.6	2131.6	2131.6	2143.6
25°	1979.9	1979.9	1987.9	1976.0	1984.0	1999.9	1987.9	2015.9
27.5°	1812.2	1828.2	1828.2	1812.2	1820.2	1868.1	1888.1	1856.2
30°	1656.6	1660.5	1672.6	1664.6	1688.5	1704.5	1700.4	1724.5
32.5°	1481.0	1500.9	1508.8	1497.0	1504.9	1540.7	1520.9	1516.8
35°	1345.3	1309.3	1305.4	1309.3	1325.2	1333.2	1325.2	1353.2
37.5°	1149.6	1137.6	1121.6	1125.7	1137.6	1153.7	1161.7	1181.5
40°	961.9	946.0	946.0	942.1	930.0	974.0	974.0	974.0
42.5°	798.4	794.3	774.4	774.4	790.4	802.3	794.3	822.3
45°	654.6	638.7	626.7	626.7	638.7	638.7	650.7	646.7
47.5°	515.0	499.0	502.9	491.1	502.9	518.9	499.0	502.9
50°	387.2	387.2	379.2	387.2	383.2	387.2	379.2	371.3
52.5°	263.5	299.3	303.4	287.4	251.5	219.6	199.6	215.5
55°	151.7	135.7	135.7	131.7	123.7	119.8	107.8	119.8
57.5°	75.8	67.9	67.9	67.9	63.8	59.9	51.9	51.9
60°	31.9	28.0	28.0	23.9	20.0	16.0	12.0	16.0
62.5°	12.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
65°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
67.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
70°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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)