

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: **FLDSQ4C100D010 FEU4C1009027 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: FLDSQ4C100D010 FEU4C1009027 F4LC-SQLWW-H
 Description: 4 INCH 10000 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
 AND F4LC-SQLWW TRIM WITH H FINISH
 Light Source: -
 Ballast/Driver: -

Summary

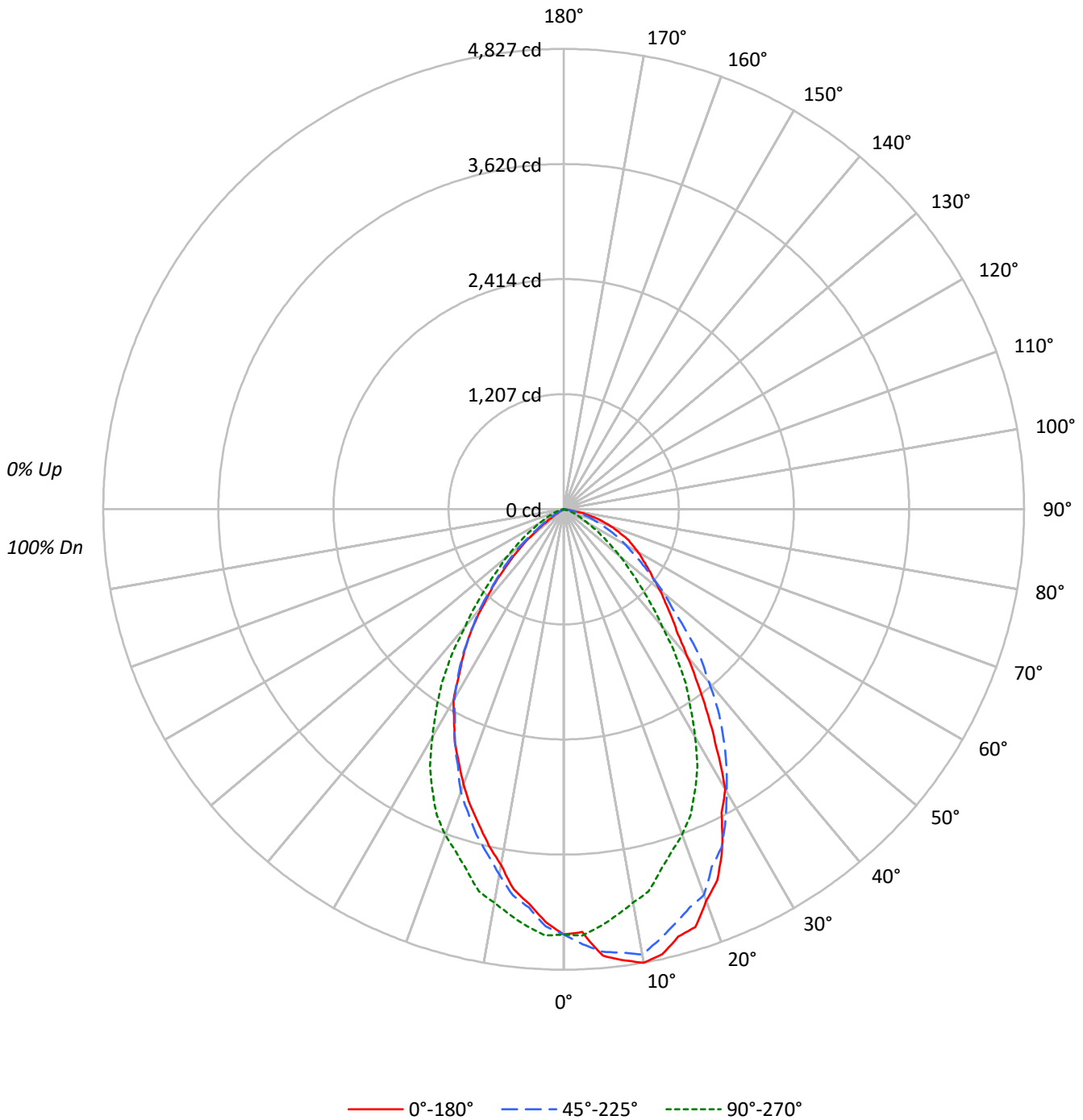
Lumens per Lamp: N/A
 Luminaire Lumens: 6390.0 lumens
 Efficiency: N/A
 Efficacy: 55.9 lumens/watt
 Spacing Criteria (0/90/45): 1.01 / 1 / 1.06
 Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
 CIE Type: Direct

Input Watts (W): 114.4
 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: FLDSQ4C100D010 FEU4C1009027 F4LC-SQLWW-H

Luminous Intensity Polar Plot



TEST NUMBER: P#
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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° | 430128 | 430128 | 430128 |
| 5° | 455075 | 425059 | 402278 |
| 10° | 472917 | 410075 | 370776 |
| 15° | 463462 | 391369 | 342252 |
| 20° | 448420 | 372672 | 315037 |
| 25° | 418275 | 346550 | 287388 |
| 30° | 377588 | 306705 | 257281 |
| 35° | 311028 | 262557 | 213449 |
| 40° | 253829 | 202653 | 164274 |
| 45° | 218097 | 153909 | 118157 |
| 50° | 197380 | 117161 | 74635 |
| 55° | 181631 | 84515 | 26983 |
| 60° | 174336 | 57758 | 4130 |
| 65° | 168403 | 39064 | 1233 |
| 70° | 150762 | 27111 | 1523 |
| 75° | 123585 | 13980 | 0 |
| 80° | 77292 | 5946 | 0 |
| 85° | 0 | 0 | 0 |

TEST NUMBER: P#
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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 417.7 | 6.5 |
| 10°-20° | 1125.3 | 17.6 |
| 20°-30° | 1502.6 | 23.5 |
| 30°-40° | 1426.4 | 22.3 |
| 40°-50° | 986.0 | 15.4 |
| 50°-60° | 544.8 | 8.5 |
| 60°-70° | 270.5 | 4.2 |
| 70°-80° | 106.6 | 1.7 |
| 80°-90° | 10.1 | 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° | 3045.5 | 47.7 |
| 0°-40° | 4472.0 | 70.0 |
| 0°-60° | 6002.7 | 93.9 |
| 0°-90° | 6390.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6390.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 4458 | 4458 | 4458 | 4458 | 4458 | |
| 5° | 4698 | 4656 | 4388 | 4191 | 4153 | 450 |
| 15° | 4640 | 4501 | 3918 | 3533 | 3426 | 1312 |
| 25° | 3929 | 3913 | 3255 | 2699 | 2699 | 1791 |
| 35° | 2640 | 2918 | 2229 | 1833 | 1812 | 1654 |
| 45° | 1598 | 1833 | 1128 | 925 | 866 | 1247 |
| 55° | 1080 | 1016 | 502 | 256 | 160 | 972 |
| 65° | 738 | 534 | 171 | 5 | 5 | 716 |
| 75° | 332 | 203 | 38 | 0 | 0 | 353 |
| 85° | 0 | 5 | 0 | 0 | 0 | 31 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

TEST NUMBER: P#
 CATALOG NUMBER: FLDSQ4C100D010 FEU4C1009027 F4LC-SQLWW-H

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 |
| 2.5° | 4436.4 | 4559.4 | 4570.1 | 4559.4 | 4575.5 | 4570.1 | 4596.9 | 4570.1 | 4602.3 | 4554.1 | 4564.8 |
| 5° | 4698.4 | 4650.3 | 4751.8 | 4698.4 | 4698.4 | 4693.2 | 4677.1 | 4671.6 | 4693.2 | 4623.7 | 4655.7 |
| 7.5° | 4768.0 | 4837.5 | 4928.4 | 4816.1 | 4821.4 | 4821.4 | 4789.3 | 4778.6 | 4778.6 | 4650.3 | 4687.7 |
| 10° | 4826.8 | 4783.9 | 4832.0 | 4789.3 | 4826.8 | 4821.4 | 4842.7 | 4773.2 | 4821.4 | 4746.6 | 4741.1 |
| 12.5° | 4778.6 | 4762.5 | 4826.8 | 4757.3 | 4735.9 | 4741.1 | 4714.6 | 4698.4 | 4714.6 | 4628.9 | 4623.7 |
| 15° | 4639.6 | 4655.7 | 4751.8 | 4677.1 | 4666.4 | 4655.7 | 4623.7 | 4570.1 | 4613.0 | 4495.3 | 4500.7 |
| 17.5° | 4591.6 | 4564.8 | 4580.9 | 4516.7 | 4532.8 | 4522.1 | 4516.7 | 4468.7 | 4457.8 | 4383.0 | 4383.0 |
| 20° | 4367.1 | 4425.8 | 4425.8 | 4383.0 | 4383.0 | 4377.8 | 4308.3 | 4351.0 | 4302.8 | 4281.5 | 4302.8 |
| 22.5° | 4212.0 | 4217.4 | 4217.4 | 4179.9 | 4185.4 | 4164.0 | 4126.5 | 4099.7 | 4126.5 | 4099.7 | 4057.0 |
| 25° | 3928.8 | 3939.5 | 4003.6 | 3934.1 | 3923.4 | 3944.7 | 3912.7 | 3896.6 | 3891.3 | 3827.3 | 3912.7 |
| 27.5° | 3586.6 | 3693.4 | 3688.2 | 3661.4 | 3693.4 | 3650.7 | 3634.8 | 3640.0 | 3656.2 | 3650.7 | 3672.1 |
| 30° | 3389.0 | 3404.9 | 3421.0 | 3399.6 | 3404.9 | 3389.0 | 3389.0 | 3394.2 | 3436.9 | 3421.0 | 3415.6 |
| 32.5° | 2987.9 | 3041.3 | 3084.3 | 3084.3 | 3089.5 | 3105.6 | 3100.2 | 3212.4 | 3239.2 | 3185.8 | 3175.1 |
| 35° | 2640.5 | 2678.0 | 2715.3 | 2720.7 | 2790.2 | 2795.5 | 2800.9 | 2833.0 | 2907.7 | 2923.8 | 2918.4 |
| 37.5° | 2309.2 | 2346.5 | 2357.2 | 2405.3 | 2442.8 | 2480.1 | 2523.0 | 2565.7 | 2629.8 | 2683.2 | 2656.6 |
| 40° | 2015.2 | 2031.1 | 2057.9 | 2079.3 | 2154.0 | 2154.0 | 2175.4 | 2261.1 | 2330.6 | 2373.3 | 2367.9 |
| 42.5° | 1769.3 | 1774.6 | 1795.9 | 1833.4 | 1903.0 | 1886.8 | 1903.0 | 1961.8 | 2063.2 | 2068.6 | 2127.4 |
| 45° | 1598.3 | 1592.8 | 1608.9 | 1614.2 | 1657.1 | 1678.5 | 1689.1 | 1731.9 | 1817.3 | 1828.0 | 1833.4 |
| 47.5° | 1443.3 | 1437.8 | 1464.6 | 1475.3 | 1491.2 | 1512.6 | 1512.6 | 1518.0 | 1550.1 | 1576.9 | 1555.5 |
| 50° | 1314.9 | 1314.9 | 1314.9 | 1325.6 | 1352.4 | 1347.0 | 1352.4 | 1373.8 | 1389.7 | 1379.0 | 1373.8 |
| 52.5° | 1175.9 | 1197.2 | 1213.3 | 1218.8 | 1224.0 | 1224.0 | 1229.5 | 1218.8 | 1213.3 | 1197.2 | 1165.2 |
| 55° | 1079.7 | 1101.1 | 1101.1 | 1101.1 | 1101.1 | 1122.5 | 1095.9 | 1101.1 | 1101.1 | 1058.4 | 1015.7 |
| 57.5° | 983.6 | 1005.0 | 1020.9 | 999.5 | 1020.9 | 999.5 | 988.9 | 983.6 | 972.7 | 930.0 | 865.9 |
| 60° | 903.4 | 914.1 | 908.7 | 903.4 | 914.1 | 898.0 | 887.3 | 865.9 | 855.2 | 796.4 | 753.7 |
| 62.5° | 812.5 | 817.8 | 823.2 | 812.5 | 801.8 | 796.4 | 775.0 | 743.0 | 721.6 | 673.5 | 636.0 |
| 65° | 737.6 | 721.6 | 716.2 | 711.0 | 700.3 | 684.2 | 668.2 | 630.8 | 614.6 | 571.9 | 534.4 |
| 67.5° | 625.3 | 620.1 | 630.8 | 614.6 | 588.0 | 588.0 | 571.9 | 539.9 | 502.4 | 475.8 | 438.3 |
| 70° | 534.4 | 529.2 | 518.5 | 502.4 | 497.2 | 475.8 | 475.8 | 438.3 | 427.6 | 379.5 | 347.4 |
| 72.5° | 438.3 | 438.3 | 422.2 | 406.3 | 390.1 | 379.5 | 374.2 | 347.4 | 331.5 | 304.7 | 277.9 |
| 75° | 331.5 | 331.5 | 326.1 | 309.9 | 299.3 | 288.6 | 283.3 | 262.0 | 245.9 | 219.3 | 203.1 |
| 77.5° | 235.2 | 235.2 | 213.8 | 203.1 | 208.4 | 197.7 | 187.0 | 181.8 | 176.3 | 160.4 | 139.1 |
| 80° | 139.1 | 133.6 | 117.7 | 122.9 | 117.7 | 117.7 | 112.2 | 106.8 | 96.1 | 85.4 | 74.8 |
| 82.5° | 37.5 | 42.7 | 42.7 | 42.7 | 48.2 | 37.5 | 37.5 | 37.5 | 42.7 | 42.7 | 26.8 |
| 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 | 10.7 | 21.4 | 21.4 | 21.4 | 21.4 | 21.4 | 16.1 | 16.1 | 16.1 | 10.7 |
| 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: FLDSQ4C100D010 FEU4C1009027 F4LC-SQLWW-H

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 |
| 2.5° | 4511.4 | 4506.0 | 4511.4 | 4473.9 | 4559.4 | 4495.3 | 4484.6 | 4473.9 | 4511.4 | 4473.9 | 4420.5 |
| 5° | 4607.5 | 4554.1 | 4538.0 | 4522.1 | 4570.1 | 4495.3 | 4479.4 | 4484.6 | 4457.8 | 4388.5 | 4393.7 |
| 7.5° | 4639.6 | 4591.6 | 4543.5 | 4441.9 | 4484.6 | 4468.7 | 4425.8 | 4393.7 | 4351.0 | 4292.2 | 4281.5 |
| 10° | 4650.3 | 4596.9 | 4527.3 | 4495.3 | 4431.2 | 4409.9 | 4393.7 | 4340.3 | 4286.9 | 4185.4 | 4158.6 |
| 12.5° | 4618.2 | 4554.1 | 4468.7 | 4441.9 | 4393.7 | 4324.2 | 4286.9 | 4233.3 | 4185.4 | 4105.2 | 4046.3 |
| 15° | 4479.4 | 4425.8 | 4399.2 | 4308.3 | 4286.9 | 4244.0 | 4169.2 | 4094.5 | 4025.0 | 3917.9 | 3885.9 |
| 17.5° | 4319.0 | 4297.6 | 4270.8 | 4201.3 | 4196.0 | 4153.3 | 4083.8 | 4019.5 | 3928.8 | 3763.0 | 3709.6 |
| 20° | 4153.3 | 4153.3 | 4067.7 | 4041.1 | 4094.5 | 4008.8 | 3955.4 | 3896.6 | 3709.6 | 3629.4 | 3533.2 |
| 22.5° | 4030.4 | 3971.5 | 3923.4 | 3880.7 | 3885.9 | 3832.5 | 3757.7 | 3640.0 | 3570.5 | 3474.4 | 3362.2 |
| 25° | 3789.8 | 3811.1 | 3704.3 | 3688.2 | 3704.3 | 3581.2 | 3543.9 | 3447.6 | 3346.0 | 3255.1 | 3169.7 |
| 27.5° | 3640.0 | 3581.2 | 3511.9 | 3453.0 | 3453.0 | 3404.9 | 3298.1 | 3276.7 | 3121.5 | 3036.1 | 2929.1 |
| 30° | 3415.6 | 3372.8 | 3314.0 | 3228.5 | 3217.9 | 3180.4 | 3094.9 | 3041.3 | 2881.1 | 2752.8 | 2693.9 |
| 32.5° | 3132.2 | 3116.3 | 3068.1 | 2972.0 | 2940.0 | 2897.0 | 2790.2 | 2699.4 | 2624.6 | 2480.1 | 2410.8 |
| 35° | 2929.1 | 2870.4 | 2768.9 | 2688.7 | 2661.9 | 2587.1 | 2501.5 | 2437.4 | 2357.2 | 2229.0 | 2138.1 |
| 37.5° | 2624.6 | 2565.7 | 2469.4 | 2373.3 | 2373.3 | 2298.5 | 2180.8 | 2116.8 | 2004.5 | 1929.5 | 1854.8 |
| 40° | 2357.2 | 2282.4 | 2186.3 | 2074.0 | 2057.9 | 1950.9 | 1903.0 | 1795.9 | 1726.4 | 1608.9 | 1598.3 |
| 42.5° | 2057.9 | 1988.4 | 1903.0 | 1817.3 | 1753.2 | 1699.8 | 1576.9 | 1496.7 | 1421.9 | 1363.1 | 1347.0 |
| 45° | 1785.3 | 1694.4 | 1619.6 | 1512.6 | 1448.5 | 1384.4 | 1304.2 | 1250.8 | 1192.0 | 1127.9 | 1090.4 |
| 47.5° | 1550.1 | 1475.3 | 1368.3 | 1272.2 | 1208.1 | 1175.9 | 1085.0 | 1026.3 | 978.2 | 935.5 | 908.7 |
| 50° | 1309.7 | 1218.8 | 1159.9 | 1052.9 | 1042.3 | 967.5 | 892.7 | 844.6 | 817.8 | 780.5 | 743.0 |
| 52.5° | 1127.9 | 1042.3 | 962.1 | 882.1 | 839.1 | 812.5 | 743.0 | 694.8 | 657.6 | 630.8 | 609.4 |
| 55° | 951.4 | 876.6 | 812.5 | 732.3 | 705.5 | 668.2 | 588.0 | 577.4 | 539.9 | 502.4 | 475.8 |
| 57.5° | 817.8 | 748.2 | 673.5 | 620.1 | 571.9 | 545.3 | 481.0 | 438.3 | 416.9 | 384.9 | 358.1 |
| 60° | 694.8 | 620.1 | 561.2 | 497.2 | 475.8 | 438.3 | 390.1 | 352.9 | 326.1 | 299.3 | 272.7 |
| 62.5° | 582.6 | 518.5 | 454.4 | 400.8 | 368.8 | 347.4 | 309.9 | 277.9 | 251.3 | 229.9 | 208.4 |
| 65° | 481.0 | 422.2 | 368.8 | 315.4 | 299.3 | 272.7 | 245.9 | 219.3 | 197.7 | 171.1 | 149.7 |
| 67.5° | 395.6 | 342.2 | 288.6 | 251.3 | 235.2 | 224.5 | 192.5 | 165.6 | 149.7 | 133.6 | 112.2 |
| 70° | 309.9 | 272.7 | 229.9 | 197.7 | 181.8 | 165.6 | 144.3 | 128.4 | 106.8 | 96.1 | 80.2 |
| 72.5° | 240.6 | 208.4 | 171.1 | 144.3 | 133.6 | 122.9 | 101.6 | 85.4 | 74.8 | 64.1 | 53.4 |
| 75° | 171.1 | 144.3 | 122.9 | 96.1 | 90.9 | 85.4 | 69.5 | 58.8 | 48.2 | 37.5 | 32.0 |
| 77.5° | 117.7 | 96.1 | 74.8 | 64.1 | 58.8 | 48.2 | 42.7 | 32.0 | 26.8 | 21.4 | 16.1 |
| 80° | 64.1 | 48.2 | 37.5 | 32.0 | 26.8 | 21.4 | 21.4 | 16.1 | 10.7 | 10.7 | 5.4 |
| 82.5° | 21.4 | 16.1 | 10.7 | 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 |

TEST NUMBER: P#
 CATALOG NUMBER: FLDSQ4C100D010 FEU4C1009027 F4LC-SQLWW-H

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 |
| 2.5° | 4452.6 | 4393.7 | 4409.9 | 4409.9 | 4399.2 | 4399.2 | 4388.5 | 4372.4 | 4377.8 | 4345.6 | 4276.2 |
| 5° | 4404.4 | 4329.6 | 4319.0 | 4329.6 | 4286.9 | 4276.2 | 4254.9 | 4286.9 | 4190.6 | 4228.1 | 4185.4 |
| 7.5° | 4265.6 | 4196.0 | 4179.9 | 4217.4 | 4164.0 | 4131.8 | 4126.5 | 4169.2 | 4083.8 | 4041.1 | 3992.9 |
| 10° | 4110.4 | 4083.8 | 4035.6 | 4008.8 | 3992.9 | 3998.1 | 3955.4 | 3902.0 | 3885.9 | 3875.2 | 3832.5 |
| 12.5° | 3971.5 | 3912.7 | 3870.0 | 3837.9 | 3827.3 | 3827.3 | 3757.7 | 3747.1 | 3698.9 | 3688.2 | 3624.1 |
| 15° | 3805.7 | 3736.4 | 3709.6 | 3666.9 | 3629.4 | 3650.7 | 3570.5 | 3549.2 | 3533.2 | 3463.7 | 3474.4 |
| 17.5° | 3661.4 | 3586.6 | 3522.6 | 3495.8 | 3463.7 | 3431.7 | 3356.7 | 3372.8 | 3335.3 | 3335.3 | 3239.2 |
| 20° | 3474.4 | 3394.2 | 3346.0 | 3292.6 | 3292.6 | 3249.9 | 3196.5 | 3201.7 | 3153.6 | 3105.6 | 3020.0 |
| 22.5° | 3276.7 | 3191.1 | 3132.2 | 3110.9 | 3057.5 | 3046.8 | 2982.7 | 2966.6 | 2902.5 | 2907.7 | 2833.0 |
| 25° | 3068.1 | 2982.7 | 2902.5 | 2907.7 | 2859.8 | 2838.4 | 2800.9 | 2726.2 | 2699.4 | 2667.3 | 2646.0 |
| 27.5° | 2822.3 | 2763.4 | 2693.9 | 2688.7 | 2597.8 | 2603.0 | 2555.1 | 2533.7 | 2469.4 | 2485.5 | 2437.4 |
| 30° | 2597.8 | 2512.3 | 2448.1 | 2432.1 | 2394.7 | 2384.0 | 2309.2 | 2277.0 | 2287.9 | 2244.9 | 2218.3 |
| 32.5° | 2367.9 | 2239.7 | 2212.9 | 2180.8 | 2159.5 | 2132.7 | 2079.3 | 2100.6 | 2052.5 | 2063.2 | 2020.4 |
| 35° | 2063.2 | 2009.8 | 1940.2 | 1940.2 | 1918.9 | 1897.5 | 1860.2 | 1881.6 | 1833.4 | 1812.1 | 1769.3 |
| 37.5° | 1806.6 | 1758.7 | 1689.1 | 1710.5 | 1673.0 | 1641.0 | 1608.9 | 1614.2 | 1571.4 | 1566.2 | 1523.3 |
| 40° | 1528.7 | 1501.9 | 1454.0 | 1454.0 | 1427.2 | 1427.2 | 1411.0 | 1395.1 | 1368.3 | 1336.3 | 1288.1 |
| 42.5° | 1266.7 | 1245.4 | 1224.0 | 1229.5 | 1192.0 | 1224.0 | 1181.3 | 1208.1 | 1122.5 | 1117.2 | 1085.0 |
| 45° | 1074.3 | 1026.3 | 1031.6 | 1010.2 | 988.9 | 999.5 | 962.1 | 972.7 | 924.8 | 914.1 | 882.1 |
| 47.5° | 871.4 | 855.2 | 823.2 | 812.5 | 812.5 | 796.4 | 780.5 | 775.0 | 753.7 | 726.9 | 684.2 |
| 50° | 716.2 | 657.6 | 646.7 | 630.8 | 620.1 | 620.1 | 598.7 | 566.7 | 571.9 | 545.3 | 502.4 |
| 52.5° | 561.2 | 513.1 | 491.7 | 486.5 | 465.1 | 454.4 | 427.6 | 406.3 | 390.1 | 379.5 | 352.9 |
| 55° | 432.9 | 390.1 | 363.5 | 363.5 | 331.5 | 331.5 | 294.0 | 277.9 | 256.5 | 235.2 | 219.3 |
| 57.5° | 326.1 | 304.7 | 277.9 | 256.5 | 245.9 | 219.3 | 197.7 | 171.1 | 155.0 | 122.9 | 101.6 |
| 60° | 245.9 | 224.5 | 197.7 | 181.8 | 171.1 | 144.3 | 117.7 | 96.1 | 58.8 | 48.2 | 42.7 |
| 62.5° | 181.8 | 160.4 | 133.6 | 122.9 | 112.2 | 90.9 | 64.1 | 32.0 | 16.1 | 16.1 | 16.1 |
| 65° | 133.6 | 106.8 | 85.4 | 74.8 | 64.1 | 48.2 | 21.4 | 10.7 | 5.4 | 5.4 | 5.4 |
| 67.5° | 90.9 | 69.5 | 48.2 | 42.7 | 32.0 | 16.1 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 70° | 58.8 | 42.7 | 21.4 | 16.1 | 10.7 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 72.5° | 37.5 | 21.4 | 10.7 | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 21.4 | 10.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 10.7 | 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: FLDSQ4C100D010 FEU4C1009027 F4LC-SQLWW-H

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 | 4457.8 |
| 2.5° | 4351.0 | 4313.5 | 4334.9 | 4286.9 | 4308.3 | 4345.6 | 4319.0 | 4329.6 |
| 5° | 4201.3 | 4179.9 | 4153.3 | 4083.8 | 4137.2 | 4179.9 | 4158.6 | 4153.3 |
| 7.5° | 4041.1 | 3966.1 | 4003.6 | 3982.2 | 3971.5 | 4014.3 | 3966.1 | 4019.5 |
| 10° | 3875.2 | 3821.8 | 3816.6 | 3779.1 | 3779.1 | 3811.1 | 3816.6 | 3784.3 |
| 12.5° | 3629.4 | 3602.8 | 3602.8 | 3597.3 | 3591.9 | 3624.1 | 3629.4 | 3613.5 |
| 15° | 3453.0 | 3442.4 | 3415.6 | 3410.3 | 3378.3 | 3426.2 | 3431.7 | 3426.2 |
| 17.5° | 3239.2 | 3244.5 | 3217.9 | 3217.9 | 3239.2 | 3255.1 | 3212.4 | 3255.1 |
| 20° | 3094.9 | 3068.1 | 3057.5 | 3009.3 | 3036.1 | 3062.9 | 3062.9 | 3068.1 |
| 22.5° | 2886.4 | 2843.6 | 2859.8 | 2833.0 | 2816.8 | 2854.3 | 2854.3 | 2870.4 |
| 25° | 2651.2 | 2651.2 | 2661.9 | 2646.0 | 2656.6 | 2678.0 | 2661.9 | 2699.4 |
| 27.5° | 2426.7 | 2448.1 | 2448.1 | 2426.7 | 2437.4 | 2501.5 | 2528.3 | 2485.5 |
| 30° | 2218.3 | 2223.6 | 2239.7 | 2229.0 | 2261.1 | 2282.4 | 2277.0 | 2309.2 |
| 32.5° | 1983.2 | 2009.8 | 2020.4 | 2004.5 | 2015.2 | 2063.2 | 2036.6 | 2031.1 |
| 35° | 1801.4 | 1753.2 | 1748.0 | 1753.2 | 1774.6 | 1785.3 | 1774.6 | 1812.1 |
| 37.5° | 1539.4 | 1523.3 | 1501.9 | 1507.4 | 1523.3 | 1544.9 | 1555.5 | 1582.1 |
| 40° | 1288.1 | 1266.7 | 1266.7 | 1261.5 | 1245.4 | 1304.2 | 1304.2 | 1304.2 |
| 42.5° | 1069.1 | 1063.6 | 1037.0 | 1037.0 | 1058.4 | 1074.3 | 1063.6 | 1101.1 |
| 45° | 876.6 | 855.2 | 839.1 | 839.1 | 855.2 | 855.2 | 871.4 | 865.9 |
| 47.5° | 689.6 | 668.2 | 673.5 | 657.6 | 673.5 | 694.8 | 668.2 | 673.5 |
| 50° | 518.5 | 518.5 | 507.8 | 518.5 | 513.1 | 518.5 | 507.8 | 497.2 |
| 52.5° | 352.9 | 400.8 | 406.3 | 384.9 | 336.7 | 294.0 | 267.2 | 288.6 |
| 55° | 203.1 | 181.8 | 181.8 | 176.3 | 165.6 | 160.4 | 144.3 | 160.4 |
| 57.5° | 101.6 | 90.9 | 90.9 | 90.9 | 85.4 | 80.2 | 69.5 | 69.5 |
| 60° | 42.7 | 37.5 | 37.5 | 32.0 | 26.8 | 21.4 | 16.1 | 21.4 |
| 62.5° | 16.1 | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 |
| 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)