

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: **FLDSQ4C25D010 FEU4C259027 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: FLDSQ4C25D010 FEU4C259027 F4LC-SQLWW-LI  
 Description: 4 INCH 2500 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND F4LC-SQLWW TRIM WITH LI FINISH  
 Light Source: -  
 Ballast/Driver: -

**Summary**

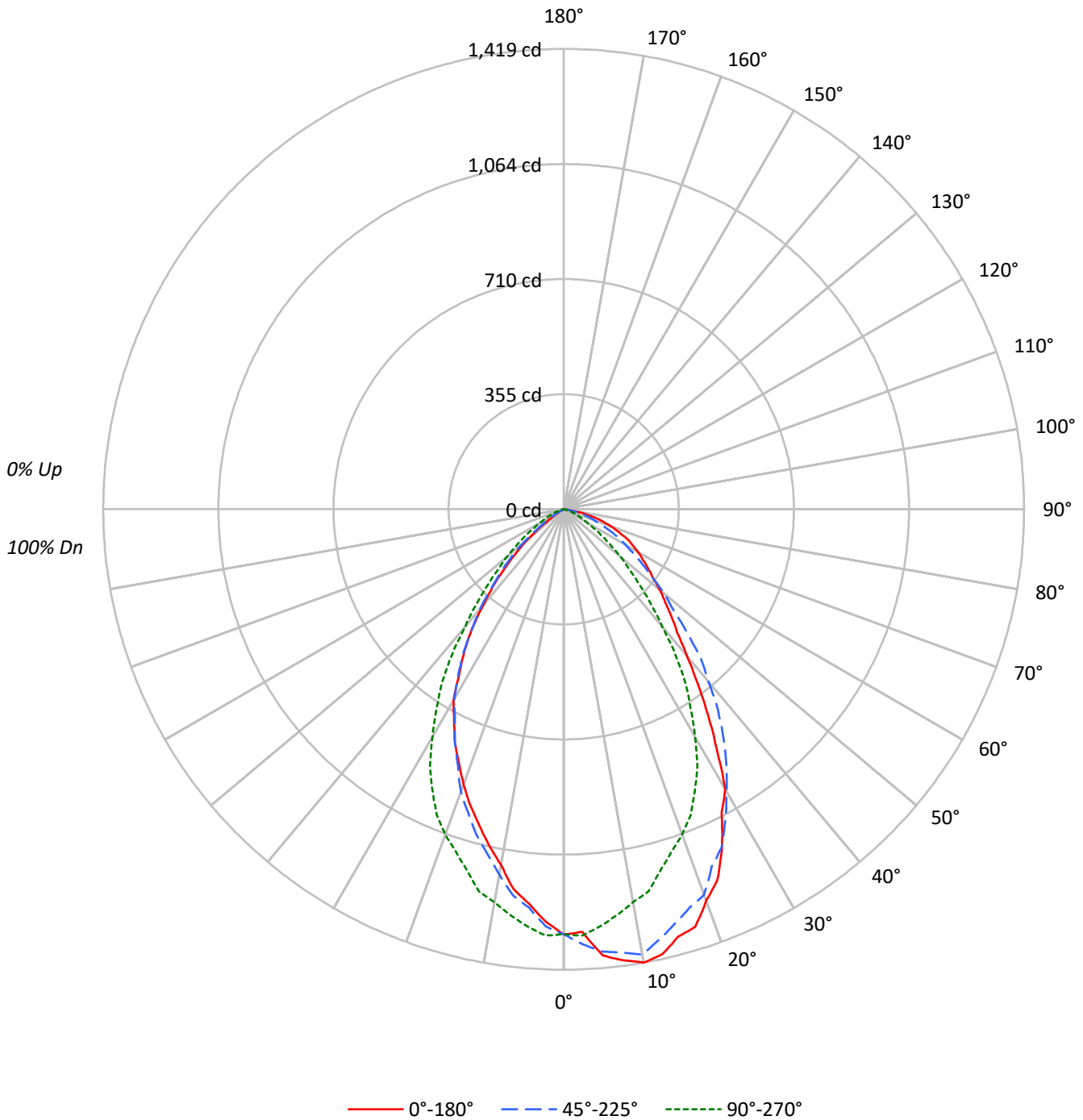
Lumens per Lamp: N/A  
 Luminaire Lumens: 1878.0 lumens  
 Efficiency: N/A  
 Efficacy: 59.6 lumens/watt  
 Spacing Criteria (0/90/45): 1.01 / 1 / 1.06  
 Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
 CIE Type: Direct

Input Watts (W): 31.5  
 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            |

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### Luminous Intensity Polar Plot



TEST NUMBER: P#

CATALOG NUMBER: FLDSQ4C25D010 FEU4C259027 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°  | 126410 | 126410 | 126410 |
| 5°  | 133750 | 124927 | 118224 |
| 10° | 138991 | 120522 | 108970 |
| 15° | 136214 | 115026 | 100592 |
| 20° | 131791 | 109530 | 92588  |
| 25° | 122934 | 101854 | 84458  |
| 30° | 110970 | 90135  | 75618  |
| 35° | 91406  | 77165  | 62736  |
| 40° | 74605  | 59565  | 48279  |
| 45° | 64093  | 45235  | 34728  |
| 50° | 58003  | 34435  | 21931  |
| 55° | 53377  | 24830  | 7923   |
| 60° | 51236  | 16963  | 1216   |
| 65° | 49498  | 11484  | 365    |
| 70° | 44320  | 7956   | 451    |
| 75° | 36311  | 4101   | 0      |
| 80° | 22726  | 1723   | 0      |
| 85° | 0      | 0      | 0      |

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 122.8  | 6.5       |
| 10°-20°   | 330.7  | 17.6      |
| 20°-30°   | 441.6  | 23.5      |
| 30°-40°   | 419.2  | 22.3      |
| 40°-50°   | 289.8  | 15.4      |
| 50°-60°   | 160.1  | 8.5       |
| 60°-70°   | 79.5   | 4.2       |
| 70°-80°   | 31.3   | 1.7       |
| 80°-90°   | 3.0    | 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°    | 895.1  | 47.7      |
| 0°-40°    | 1314.3 | 70.0      |
| 0°-60°    | 1764.2 | 93.9      |
| 0°-90°    | 1878.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1878.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1310 | 1310 | 1310 | 1310 | 1310 |      |
| 5°  | 1381 | 1368 | 1290 | 1232 | 1221 | 132  |
| 15° | 1364 | 1323 | 1152 | 1038 | 1007 | 386  |
| 25° | 1155 | 1150 | 957  | 793  | 793  | 526  |
| 35° | 776  | 858  | 655  | 539  | 533  | 486  |
| 45° | 470  | 539  | 332  | 272  | 254  | 366  |
| 55° | 317  | 298  | 148  | 75   | 47   | 286  |
| 65° | 217  | 157  | 50   | 2    | 2    | 210  |
| 75° | 97   | 60   | 11   | 0    | 0    | 104  |
| 85° | 0    | 2    | 0    | 0    | 0    | 9    |
| 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°    | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 |
| 2.5°  | 1303.9 | 1340.0 | 1343.1 | 1340.0 | 1344.7 | 1343.1 | 1351.0 | 1343.1 | 1352.6 | 1338.4 | 1341.6 |
| 5°    | 1380.9 | 1366.7 | 1396.5 | 1380.9 | 1380.9 | 1379.3 | 1374.6 | 1373.0 | 1379.3 | 1358.9 | 1368.3 |
| 7.5°  | 1401.3 | 1421.7 | 1448.4 | 1415.4 | 1417.0 | 1417.0 | 1407.6 | 1404.4 | 1404.4 | 1366.7 | 1377.7 |
| 10°   | 1418.6 | 1406.0 | 1420.1 | 1407.6 | 1418.6 | 1417.0 | 1423.3 | 1402.8 | 1417.0 | 1395.0 | 1393.4 |
| 12.5° | 1404.4 | 1399.7 | 1418.6 | 1398.1 | 1391.9 | 1393.4 | 1385.6 | 1380.9 | 1385.6 | 1360.4 | 1358.9 |
| 15°   | 1363.6 | 1368.3 | 1396.5 | 1374.6 | 1371.4 | 1368.3 | 1358.9 | 1343.1 | 1355.7 | 1321.2 | 1322.8 |
| 17.5° | 1349.5 | 1341.6 | 1346.3 | 1327.4 | 1332.2 | 1329.0 | 1327.4 | 1313.3 | 1310.1 | 1288.2 | 1288.2 |
| 20°   | 1283.5 | 1300.7 | 1300.7 | 1288.2 | 1288.2 | 1286.6 | 1266.2 | 1278.7 | 1264.6 | 1258.3 | 1264.6 |
| 22.5° | 1237.9 | 1239.5 | 1239.5 | 1228.5 | 1230.1 | 1223.8 | 1212.8 | 1204.9 | 1212.8 | 1204.9 | 1192.3 |
| 25°   | 1154.7 | 1157.8 | 1176.6 | 1156.2 | 1153.1 | 1159.3 | 1149.9 | 1145.2 | 1143.7 | 1124.8 | 1149.9 |
| 27.5° | 1054.1 | 1085.5 | 1084.0 | 1076.1 | 1085.5 | 1072.9 | 1068.3 | 1069.8 | 1074.5 | 1072.9 | 1079.2 |
| 30°   | 996.0  | 1000.7 | 1005.4 | 999.1  | 1000.7 | 996.0  | 996.0  | 997.5  | 1010.1 | 1005.4 | 1003.8 |
| 32.5° | 878.1  | 893.8  | 906.5  | 906.5  | 908.0  | 912.7  | 911.1  | 944.1  | 952.0  | 936.3  | 933.2  |
| 35°   | 776.0  | 787.1  | 798.0  | 799.6  | 820.0  | 821.6  | 823.2  | 832.6  | 854.6  | 859.3  | 857.7  |
| 37.5° | 678.7  | 689.6  | 692.8  | 706.9  | 717.9  | 728.9  | 741.5  | 754.1  | 772.9  | 788.6  | 780.8  |
| 40°   | 592.3  | 596.9  | 604.8  | 611.1  | 633.1  | 633.1  | 639.3  | 664.5  | 684.9  | 697.5  | 695.9  |
| 42.5° | 520.0  | 521.5  | 527.8  | 538.8  | 559.3  | 554.5  | 559.3  | 576.6  | 606.4  | 608.0  | 625.2  |
| 45°   | 469.7  | 468.1  | 472.9  | 474.4  | 487.0  | 493.3  | 496.4  | 509.0  | 534.1  | 537.2  | 538.8  |
| 47.5° | 424.2  | 422.6  | 430.5  | 433.6  | 438.3  | 444.5  | 444.5  | 446.1  | 455.6  | 463.4  | 457.2  |
| 50°   | 386.4  | 386.4  | 386.4  | 389.6  | 397.5  | 395.9  | 397.5  | 403.7  | 408.4  | 405.3  | 403.7  |
| 52.5° | 345.6  | 351.9  | 356.6  | 358.2  | 359.7  | 359.7  | 361.3  | 358.2  | 356.6  | 351.9  | 342.4  |
| 55°   | 317.3  | 323.6  | 323.6  | 323.6  | 323.6  | 329.9  | 322.1  | 323.6  | 323.6  | 311.1  | 298.5  |
| 57.5° | 289.1  | 295.4  | 300.0  | 293.8  | 300.0  | 293.8  | 290.6  | 289.1  | 285.9  | 273.3  | 254.5  |
| 60°   | 265.5  | 268.6  | 267.0  | 265.5  | 268.6  | 263.9  | 260.8  | 254.5  | 251.4  | 234.1  | 221.5  |
| 62.5° | 238.8  | 240.3  | 241.9  | 238.8  | 235.7  | 234.1  | 227.8  | 218.4  | 212.1  | 197.9  | 186.9  |
| 65°   | 216.8  | 212.1  | 210.5  | 208.9  | 205.8  | 201.1  | 196.4  | 185.4  | 180.6  | 168.1  | 157.1  |
| 67.5° | 183.8  | 182.2  | 185.4  | 180.6  | 172.8  | 172.8  | 168.1  | 158.7  | 147.6  | 139.8  | 128.8  |
| 70°   | 157.1  | 155.5  | 152.4  | 147.6  | 146.1  | 139.8  | 139.8  | 128.8  | 125.7  | 111.5  | 102.1  |
| 72.5° | 128.8  | 128.8  | 124.1  | 119.4  | 114.7  | 111.5  | 110.0  | 102.1  | 97.4   | 89.5   | 81.7   |
| 75°   | 97.4   | 97.4   | 95.8   | 91.1   | 87.9   | 84.8   | 83.3   | 77.0   | 72.3   | 64.4   | 59.7   |
| 77.5° | 69.1   | 69.1   | 62.8   | 59.7   | 61.2   | 58.1   | 55.0   | 53.4   | 51.8   | 47.1   | 40.9   |
| 80°   | 40.9   | 39.3   | 34.6   | 36.1   | 34.6   | 34.6   | 33.0   | 31.4   | 28.2   | 25.1   | 22.0   |
| 82.5° | 11.0   | 12.6   | 12.6   | 12.6   | 14.2   | 11.0   | 11.0   | 11.0   | 12.6   | 12.6   | 7.9    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    |
| 87.5° | 1.6    | 3.1    | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    | 4.7    | 4.7    | 4.7    | 3.1    |
| 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°    | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 |
| 2.5°  | 1325.9 | 1324.3 | 1325.9 | 1314.9 | 1340.0 | 1321.2 | 1318.0 | 1314.9 | 1325.9 | 1314.9 | 1299.2 |
| 5°    | 1354.1 | 1338.4 | 1333.7 | 1329.0 | 1343.1 | 1321.2 | 1316.5 | 1318.0 | 1310.1 | 1289.8 | 1291.3 |
| 7.5°  | 1363.6 | 1349.5 | 1335.3 | 1305.5 | 1318.0 | 1313.3 | 1300.7 | 1291.3 | 1278.7 | 1261.5 | 1258.3 |
| 10°   | 1366.7 | 1351.0 | 1330.6 | 1321.2 | 1302.3 | 1296.0 | 1291.3 | 1275.6 | 1259.9 | 1230.1 | 1222.2 |
| 12.5° | 1357.3 | 1338.4 | 1313.3 | 1305.5 | 1291.3 | 1270.9 | 1259.9 | 1244.2 | 1230.1 | 1206.5 | 1189.2 |
| 15°   | 1316.5 | 1300.7 | 1292.9 | 1266.2 | 1259.9 | 1247.3 | 1225.3 | 1203.4 | 1182.9 | 1151.5 | 1142.1 |
| 17.5° | 1269.3 | 1263.1 | 1255.2 | 1234.7 | 1233.2 | 1220.6 | 1200.2 | 1181.3 | 1154.7 | 1105.9 | 1090.2 |
| 20°   | 1220.6 | 1220.6 | 1195.5 | 1187.7 | 1203.4 | 1178.2 | 1162.5 | 1145.2 | 1090.2 | 1066.7 | 1038.4 |
| 22.5° | 1184.5 | 1167.2 | 1153.1 | 1140.5 | 1142.1 | 1126.4 | 1104.4 | 1069.8 | 1049.4 | 1021.1 | 988.1  |
| 25°   | 1113.8 | 1120.1 | 1088.7 | 1084.0 | 1088.7 | 1052.5 | 1041.5 | 1013.2 | 983.4  | 956.7  | 931.6  |
| 27.5° | 1069.8 | 1052.5 | 1032.1 | 1014.8 | 1014.8 | 1000.7 | 969.3  | 963.0  | 917.4  | 892.3  | 860.8  |
| 30°   | 1003.8 | 991.3  | 974.0  | 948.9  | 945.7  | 934.7  | 909.6  | 893.8  | 846.8  | 809.0  | 791.7  |
| 32.5° | 920.5  | 915.9  | 901.7  | 873.5  | 864.0  | 851.4  | 820.0  | 793.3  | 771.4  | 728.9  | 708.5  |
| 35°   | 860.8  | 843.6  | 813.8  | 790.2  | 782.3  | 760.3  | 735.2  | 716.3  | 692.8  | 655.1  | 628.4  |
| 37.5° | 771.4  | 754.1  | 725.8  | 697.5  | 697.5  | 675.5  | 640.9  | 622.1  | 589.1  | 567.1  | 545.1  |
| 40°   | 692.8  | 670.8  | 642.5  | 609.6  | 604.8  | 573.4  | 559.3  | 527.8  | 507.4  | 472.9  | 469.7  |
| 42.5° | 604.8  | 584.4  | 559.3  | 534.1  | 515.3  | 499.6  | 463.4  | 439.9  | 417.9  | 400.6  | 395.9  |
| 45°   | 524.7  | 498.0  | 476.0  | 444.5  | 425.7  | 406.9  | 383.3  | 367.6  | 350.3  | 331.5  | 320.5  |
| 47.5° | 455.6  | 433.6  | 402.1  | 373.9  | 355.1  | 345.6  | 318.9  | 301.6  | 287.5  | 274.9  | 267.0  |
| 50°   | 384.9  | 358.2  | 340.9  | 309.5  | 306.3  | 284.3  | 262.4  | 248.2  | 240.3  | 229.4  | 218.4  |
| 52.5° | 331.5  | 306.3  | 282.7  | 259.2  | 246.6  | 238.8  | 218.4  | 204.2  | 193.3  | 185.4  | 179.1  |
| 55°   | 279.6  | 257.6  | 238.8  | 215.2  | 207.3  | 196.4  | 172.8  | 169.7  | 158.7  | 147.6  | 139.8  |
| 57.5° | 240.3  | 219.9  | 197.9  | 182.2  | 168.1  | 160.3  | 141.4  | 128.8  | 122.5  | 113.1  | 105.2  |
| 60°   | 204.2  | 182.2  | 164.9  | 146.1  | 139.8  | 128.8  | 114.7  | 103.7  | 95.8   | 87.9   | 80.1   |
| 62.5° | 171.2  | 152.4  | 133.6  | 117.8  | 108.4  | 102.1  | 91.1   | 81.7   | 73.9   | 67.6   | 61.2   |
| 65°   | 141.4  | 124.1  | 108.4  | 92.7   | 87.9   | 80.1   | 72.3   | 64.4   | 58.1   | 50.3   | 44.0   |
| 67.5° | 116.3  | 100.6  | 84.8   | 73.9   | 69.1   | 66.0   | 56.6   | 48.7   | 44.0   | 39.3   | 33.0   |
| 70°   | 91.1   | 80.1   | 67.6   | 58.1   | 53.4   | 48.7   | 42.4   | 37.7   | 31.4   | 28.2   | 23.6   |
| 72.5° | 70.7   | 61.2   | 50.3   | 42.4   | 39.3   | 36.1   | 29.8   | 25.1   | 22.0   | 18.8   | 15.7   |
| 75°   | 50.3   | 42.4   | 36.1   | 28.2   | 26.7   | 25.1   | 20.4   | 17.3   | 14.2   | 11.0   | 9.4    |
| 77.5° | 34.6   | 28.2   | 22.0   | 18.8   | 17.3   | 14.2   | 12.6   | 9.4    | 7.9    | 6.3    | 4.7    |
| 80°   | 18.8   | 14.2   | 11.0   | 9.4    | 7.9    | 6.3    | 6.3    | 4.7    | 3.1    | 3.1    | 1.6    |
| 82.5° | 6.3    | 4.7    | 3.1    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 0.0    | 1.6    |
| 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° | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 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: FLDSQ4C25D010 FEU4C259027 F4LC-SQLWW-LI

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 |
| 2.5°  | 1308.6 | 1291.3 | 1296.0 | 1296.0 | 1292.9 | 1292.9 | 1289.8 | 1285.0 | 1286.6 | 1277.1 | 1256.8 |
| 5°    | 1294.4 | 1272.5 | 1269.3 | 1272.5 | 1259.9 | 1256.8 | 1250.5 | 1259.9 | 1231.6 | 1242.6 | 1230.1 |
| 7.5°  | 1253.6 | 1233.2 | 1228.5 | 1239.5 | 1223.8 | 1214.3 | 1212.8 | 1225.3 | 1200.2 | 1187.7 | 1173.5 |
| 10°   | 1208.0 | 1200.2 | 1186.1 | 1178.2 | 1173.5 | 1175.0 | 1162.5 | 1146.8 | 1142.1 | 1138.9 | 1126.4 |
| 12.5° | 1167.2 | 1149.9 | 1137.4 | 1128.0 | 1124.8 | 1124.8 | 1104.4 | 1101.2 | 1087.1 | 1084.0 | 1065.1 |
| 15°   | 1118.5 | 1098.1 | 1090.2 | 1077.7 | 1066.7 | 1072.9 | 1049.4 | 1043.1 | 1038.4 | 1018.0 | 1021.1 |
| 17.5° | 1076.1 | 1054.1 | 1035.3 | 1027.4 | 1018.0 | 1008.6 | 986.5  | 991.3  | 980.2  | 980.2  | 952.0  |
| 20°   | 1021.1 | 997.5  | 983.4  | 967.7  | 967.7  | 955.1  | 939.4  | 941.0  | 926.8  | 912.7  | 887.6  |
| 22.5° | 963.0  | 937.8  | 920.5  | 914.3  | 898.6  | 895.4  | 876.6  | 871.9  | 853.0  | 854.6  | 832.6  |
| 25°   | 901.7  | 876.6  | 853.0  | 854.6  | 840.5  | 834.2  | 823.2  | 801.2  | 793.3  | 783.9  | 777.6  |
| 27.5° | 829.5  | 812.2  | 791.7  | 790.2  | 763.5  | 765.0  | 750.9  | 744.6  | 725.8  | 730.5  | 716.3  |
| 30°   | 763.5  | 738.4  | 719.5  | 714.8  | 703.8  | 700.6  | 678.7  | 669.2  | 672.4  | 659.8  | 652.0  |
| 32.5° | 695.9  | 658.2  | 650.4  | 640.9  | 634.7  | 626.8  | 611.1  | 617.4  | 603.2  | 606.4  | 593.8  |
| 35°   | 606.4  | 590.7  | 570.2  | 570.2  | 563.9  | 557.7  | 546.7  | 553.0  | 538.8  | 532.6  | 520.0  |
| 37.5° | 531.0  | 516.9  | 496.4  | 502.7  | 491.7  | 482.3  | 472.9  | 474.4  | 461.8  | 460.3  | 447.7  |
| 40°   | 449.3  | 441.4  | 427.3  | 427.3  | 419.4  | 419.4  | 414.7  | 410.0  | 402.1  | 392.7  | 378.6  |
| 42.5° | 372.3  | 366.0  | 359.7  | 361.3  | 350.3  | 359.7  | 347.2  | 355.1  | 329.9  | 328.3  | 318.9  |
| 45°   | 315.7  | 301.6  | 303.2  | 296.9  | 290.6  | 293.8  | 282.7  | 285.9  | 271.8  | 268.6  | 259.2  |
| 47.5° | 256.1  | 251.4  | 241.9  | 238.8  | 238.8  | 234.1  | 229.4  | 227.8  | 221.5  | 213.6  | 201.1  |
| 50°   | 210.5  | 193.3  | 190.1  | 185.4  | 182.2  | 182.2  | 176.0  | 166.5  | 168.1  | 160.3  | 147.6  |
| 52.5° | 164.9  | 150.8  | 144.5  | 143.0  | 136.7  | 133.6  | 125.7  | 119.4  | 114.7  | 111.5  | 103.7  |
| 55°   | 127.2  | 114.7  | 106.8  | 106.8  | 97.4   | 97.4   | 86.4   | 81.7   | 75.4   | 69.1   | 64.4   |
| 57.5° | 95.8   | 89.5   | 81.7   | 75.4   | 72.3   | 64.4   | 58.1   | 50.3   | 45.5   | 36.1   | 29.8   |
| 60°   | 72.3   | 66.0   | 58.1   | 53.4   | 50.3   | 42.4   | 34.6   | 28.2   | 17.3   | 14.2   | 12.6   |
| 62.5° | 53.4   | 47.1   | 39.3   | 36.1   | 33.0   | 26.7   | 18.8   | 9.4    | 4.7    | 4.7    | 4.7    |
| 65°   | 39.3   | 31.4   | 25.1   | 22.0   | 18.8   | 14.2   | 6.3    | 3.1    | 1.6    | 1.6    | 1.6    |
| 67.5° | 26.7   | 20.4   | 14.2   | 12.6   | 9.4    | 4.7    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 70°   | 17.3   | 12.6   | 6.3    | 4.7    | 3.1    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 72.5° | 11.0   | 6.3    | 3.1    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 6.3    | 3.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 3.1    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 1.6    | 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    | 1.6    | 1.6    | 1.6    |
| 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: FLDSQ4C25D010 FEU4C259027 F4LC-SQLWW-LI

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 | 1310.1 |
| 2.5°  | 1278.7 | 1267.7 | 1274.0 | 1259.9 | 1266.2 | 1277.1 | 1269.3 | 1272.5 |
| 5°    | 1234.7 | 1228.5 | 1220.6 | 1200.2 | 1215.9 | 1228.5 | 1222.2 | 1220.6 |
| 7.5°  | 1187.7 | 1165.6 | 1176.6 | 1170.4 | 1167.2 | 1179.8 | 1165.6 | 1181.3 |
| 10°   | 1138.9 | 1123.2 | 1121.7 | 1110.7 | 1110.7 | 1120.1 | 1121.7 | 1112.2 |
| 12.5° | 1066.7 | 1058.8 | 1058.8 | 1057.2 | 1055.6 | 1065.1 | 1066.7 | 1062.0 |
| 15°   | 1014.8 | 1011.7 | 1003.8 | 1002.3 | 992.9  | 1007.0 | 1008.6 | 1007.0 |
| 17.5° | 952.0  | 953.5  | 945.7  | 945.7  | 952.0  | 956.7  | 944.1  | 956.7  |
| 20°   | 909.6  | 901.7  | 898.6  | 884.4  | 892.3  | 900.2  | 900.2  | 901.7  |
| 22.5° | 848.3  | 835.7  | 840.5  | 832.6  | 827.9  | 838.9  | 838.9  | 843.6  |
| 25°   | 779.2  | 779.2  | 782.3  | 777.6  | 780.8  | 787.1  | 782.3  | 793.3  |
| 27.5° | 713.2  | 719.5  | 719.5  | 713.2  | 716.3  | 735.2  | 743.0  | 730.5  |
| 30°   | 652.0  | 653.5  | 658.2  | 655.1  | 664.5  | 670.8  | 669.2  | 678.7  |
| 32.5° | 582.8  | 590.7  | 593.8  | 589.1  | 592.3  | 606.4  | 598.5  | 596.9  |
| 35°   | 529.4  | 515.3  | 513.7  | 515.3  | 521.5  | 524.7  | 521.5  | 532.6  |
| 37.5° | 452.4  | 447.7  | 441.4  | 443.0  | 447.7  | 454.0  | 457.2  | 465.0  |
| 40°   | 378.6  | 372.3  | 372.3  | 370.8  | 366.0  | 383.3  | 383.3  | 383.3  |
| 42.5° | 314.2  | 312.6  | 304.8  | 304.8  | 311.1  | 315.7  | 312.6  | 323.6  |
| 45°   | 257.6  | 251.4  | 246.6  | 246.6  | 251.4  | 251.4  | 256.1  | 254.5  |
| 47.5° | 202.7  | 196.4  | 197.9  | 193.3  | 197.9  | 204.2  | 196.4  | 197.9  |
| 50°   | 152.4  | 152.4  | 149.2  | 152.4  | 150.8  | 152.4  | 149.2  | 146.1  |
| 52.5° | 103.7  | 117.8  | 119.4  | 113.1  | 99.0   | 86.4   | 78.5   | 84.8   |
| 55°   | 59.7   | 53.4   | 53.4   | 51.8   | 48.7   | 47.1   | 42.4   | 47.1   |
| 57.5° | 29.8   | 26.7   | 26.7   | 26.7   | 25.1   | 23.6   | 20.4   | 20.4   |
| 60°   | 12.6   | 11.0   | 11.0   | 9.4    | 7.9    | 6.3    | 4.7    | 6.3    |
| 62.5° | 4.7    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    |
| 65°   | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 67.5° | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 70°   | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 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)