

Scaled data based on original data using  
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: P392651

Luminaire Tested: **MWL-4-26-60-UNV-L840-EDD**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P392651  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-565-1 &  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: MWL-4-26-60-UNV-L840-EDD  
Description: MWL 4FT MEDICAL LED FIXTURE  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

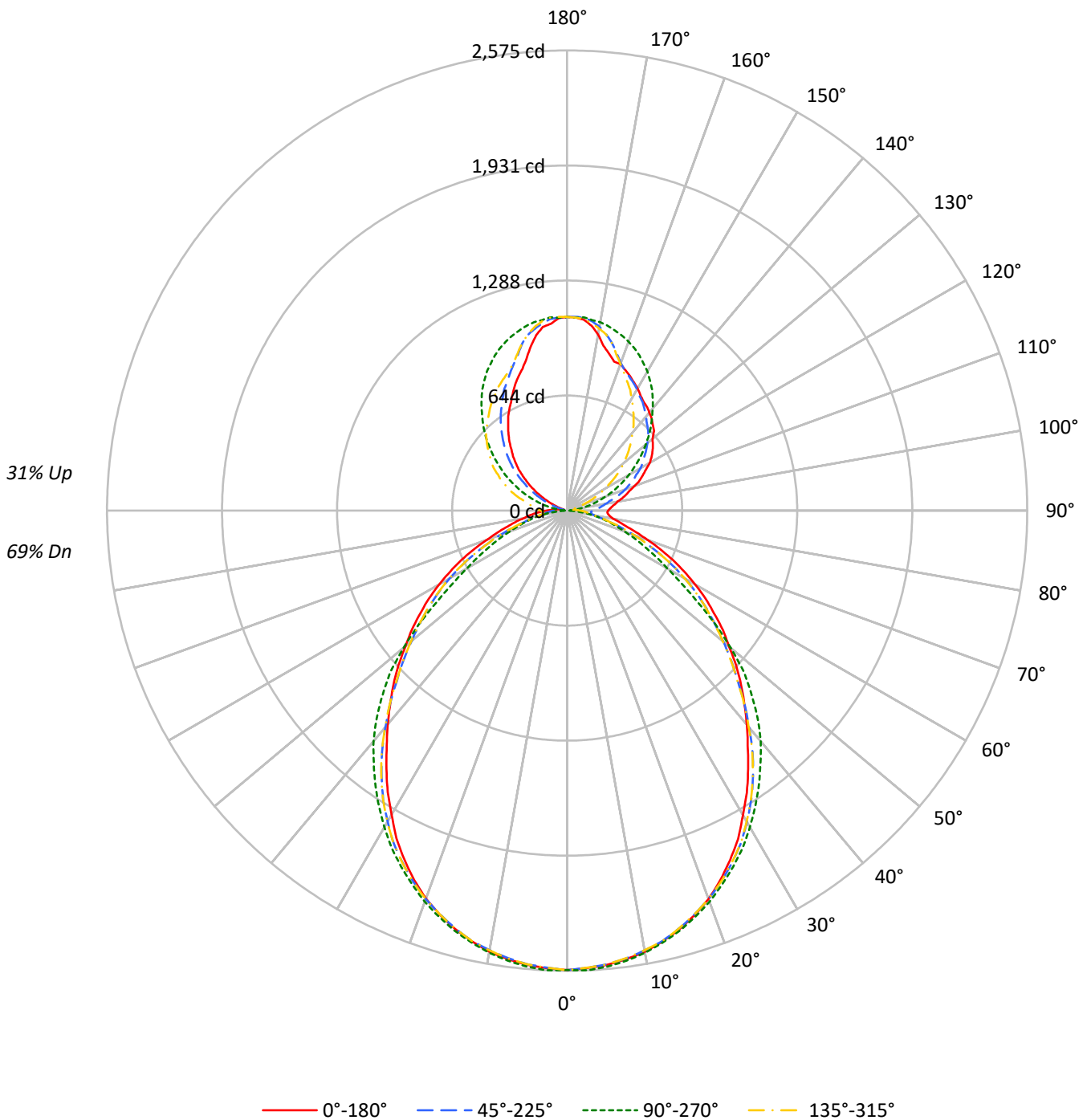
Lumens per Lamp: N/A  
Luminaire Lumens: 8599.9 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.25  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.42')  
CIE Type: Semi-Direct

Input Watts (W): 87.9  
Input Voltage (V): NR  
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



TEST NUMBER: P392651  
CATALOG NUMBER: MWL-4-26-60-UNV-L840-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P392651

CATALOG NUMBER: MWL-4-26-60-UNV-L840-EDD

**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   | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 94 | 94 | 94 | 84 | 84 | 84 | 74 | 74 | 74 | 69 |
| 1   | 102 | 98  | 94  | 91  | 97  | 93  | 89  | 86  | 83 | 80 | 78 | 74 | 72 | 70 | 66 | 64 | 63 | 59 |
| 2   | 94  | 86  | 80  | 75  | 88  | 82  | 76  | 72  | 73 | 69 | 65 | 66 | 62 | 59 | 59 | 56 | 54 | 50 |
| 3   | 86  | 76  | 69  | 63  | 81  | 72  | 66  | 60  | 65 | 60 | 56 | 59 | 54 | 51 | 52 | 49 | 46 | 43 |
| 4   | 79  | 68  | 60  | 54  | 74  | 65  | 57  | 52  | 58 | 52 | 48 | 52 | 48 | 44 | 47 | 43 | 40 | 37 |
| 5   | 73  | 61  | 53  | 47  | 68  | 58  | 50  | 45  | 52 | 46 | 42 | 47 | 42 | 39 | 43 | 39 | 35 | 33 |
| 6   | 67  | 55  | 47  | 41  | 63  | 52  | 45  | 39  | 48 | 41 | 37 | 43 | 38 | 34 | 39 | 35 | 31 | 29 |
| 7   | 62  | 50  | 42  | 36  | 59  | 48  | 40  | 35  | 43 | 37 | 33 | 39 | 34 | 30 | 36 | 31 | 28 | 26 |
| 8   | 58  | 45  | 38  | 32  | 55  | 43  | 36  | 31  | 40 | 34 | 29 | 36 | 31 | 27 | 33 | 29 | 25 | 23 |
| 9   | 54  | 42  | 34  | 29  | 51  | 40  | 33  | 28  | 37 | 31 | 26 | 33 | 28 | 25 | 30 | 26 | 23 | 21 |
| 10  | 51  | 38  | 31  | 26  | 48  | 37  | 30  | 25  | 34 | 28 | 24 | 31 | 26 | 22 | 28 | 24 | 21 | 19 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 16606 | 16606 | 16606 | 16606 |
| 5°  | 16396 | 15274 | 16396 | 15274 |
| 10° | 16142 | 14006 | 16142 | 14006 |
| 15° | 15780 | 12834 | 15765 | 12834 |
| 20° | 15315 | 11736 | 15300 | 11736 |
| 25° | 14659 | 10682 | 14644 | 10682 |
| 30° | 13837 | 9669  | 13816 | 9669  |
| 35° | 12972 | 8677  | 12956 | 8677  |
| 40° | 12128 | 7728  | 12105 | 7728  |
| 45° | 11379 | 6676  | 11360 | 6676  |
| 50° | 10561 | 5474  | 10540 | 5474  |
| 55° | 9839  | 4124  | 9824  | 4124  |
| 60° | 9050  | 3060  | 9042  | 3060  |
| 65° | 8136  | 2321  | 8136  | 2321  |
| 70° | 6996  | 1716  | 7007  | 1716  |
| 75° | 6136  | 1249  | 6177  | 1249  |
| 80° | 6116  | 807   | 5777  | 807   |
| 85° | 7767  | 362   | 6089  | 362   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 242.4  | 2.8       |
| 10°-20°   | 683.7  | 7.9       |
| 20°-30°   | 1002.4 | 11.7      |
| 30°-40°   | 1134.7 | 13.2      |
| 40°-50°   | 1068.9 | 12.4      |
| 50°-60°   | 854.6  | 9.9       |
| 60°-70°   | 561.1  | 6.5       |
| 70°-80°   | 286.5  | 3.3       |
| 80°-90°   | 139.8  | 1.6       |
| 90°-100°  | 116.5  | 1.4       |
| 100°-110° | 172.8  | 2.0       |
| 110°-120° | 289.2  | 3.4       |
| 120°-130° | 392.3  | 4.6       |
| 130°-140° | 447.1  | 5.2       |
| 140°-150° | 445.7  | 5.2       |
| 150°-160° | 387.8  | 4.5       |
| 160°-170° | 272.8  | 3.2       |
| 170°-180° | 101.6  | 1.2       |
| 0°-30°    | 1928.5 | 22.4      |
| 0°-40°    | 3063.2 | 35.6      |
| 0°-60°    | 4986.7 | 58.0      |
| 0°-90°    | 5974.2 | 69.5      |
| 90°-120°  | 578.5  | 6.7       |
| 90°-150°  | 1863.6 | 21.7      |
| 90°-180°  | 2626.0 | 30.5      |
| 0°-180°   | 8599.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 2571 | 2571 | 2571 | 2571 | 2571 |      |
| 5°   | 2552 | 2562 | 2552 | 2562 | 2552 | 242  |
| 15°  | 2426 | 2434 | 2424 | 2434 | 2426 | 683  |
| 25°  | 2157 | 2198 | 2155 | 2198 | 2157 | 991  |
| 35°  | 1765 | 1871 | 1763 | 1871 | 1765 | 1104 |
| 45°  | 1376 | 1462 | 1373 | 1462 | 1376 | 1061 |
| 55°  | 1004 | 889  | 1002 | 889  | 1004 | 900  |
| 65°  | 651  | 478  | 651  | 478  | 651  | 644  |
| 75°  | 342  | 237  | 344  | 237  | 342  | 374  |
| 85°  | 230  | 61   | 180  | 61   | 230  | 195  |
| 90°  | 229  | 2    | 114  | 2    | 229  | 126  |
| 95°  | 251  | 32   | 70   | 32   | 251  | 213  |
| 105° | 340  | 152  | 18   | 152  | 340  | 360  |
| 115° | 467  | 310  | 109  | 310  | 467  | 463  |
| 125° | 584  | 486  | 267  | 486  | 584  | 521  |
| 135° | 678  | 662  | 427  | 662  | 678  | 523  |
| 145° | 745  | 828  | 575  | 828  | 745  | 469  |
| 155° | 831  | 958  | 721  | 958  | 831  | 383  |
| 165° | 908  | 1042 | 878  | 1042 | 908  | 258  |
| 175° | 1072 | 1086 | 1049 | 1086 | 1072 | 100  |
| 180° | 1084 | 1084 | 1084 | 1084 | 1084 |      |



TEST NUMBER: P392651

CATALOG NUMBER: MWL-4-26-60-UNV-L840-EDD

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2571.3 | 2571.3 | 2571.3 | 2571.3 | 2571.3 | 2571.3 | 2571.3 | 2571.3 | 2571.3 | 2571.3 | 2571.3 |
| 2.5°   | 2562.1 | 2568.6 | 2560.1 | 2573.9 | 2574.9 | 2573.1 | 2560.1 | 2568.6 | 2562.8 | 2568.6 | 2560.1 |
| 5°     | 2552.1 | 2557.6 | 2549.1 | 2561.1 | 2562.1 | 2561.1 | 2548.3 | 2557.6 | 2552.1 | 2557.6 | 2548.3 |
| 7.5°   | 2531.8 | 2537.3 | 2527.3 | 2542.1 | 2541.1 | 2541.3 | 2526.6 | 2536.6 | 2531.8 | 2536.6 | 2526.6 |
| 10°    | 2506.6 | 2505.3 | 2499.3 | 2512.3 | 2512.3 | 2511.6 | 2498.6 | 2503.8 | 2506.6 | 2503.8 | 2498.6 |
| 12.5°  | 2469.1 | 2470.3 | 2466.6 | 2476.6 | 2474.8 | 2476.6 | 2466.6 | 2468.8 | 2467.6 | 2468.8 | 2466.6 |
| 15°    | 2425.9 | 2423.3 | 2420.6 | 2434.6 | 2433.8 | 2433.8 | 2419.8 | 2421.8 | 2423.6 | 2421.8 | 2419.8 |
| 17.5°  | 2372.9 | 2373.3 | 2369.6 | 2382.8 | 2383.8 | 2382.8 | 2368.8 | 2372.6 | 2370.6 | 2372.6 | 2368.8 |
| 20°    | 2312.9 | 2313.1 | 2313.6 | 2327.8 | 2329.1 | 2327.1 | 2312.8 | 2311.6 | 2310.6 | 2311.6 | 2312.8 |
| 22.5°  | 2239.1 | 2247.1 | 2249.6 | 2266.8 | 2265.1 | 2266.1 | 2248.8 | 2245.6 | 2237.6 | 2245.6 | 2248.8 |
| 25°    | 2157.1 | 2164.1 | 2178.3 | 2198.8 | 2198.1 | 2198.1 | 2176.8 | 2161.8 | 2154.8 | 2161.8 | 2176.8 |
| 27.5°  | 2071.1 | 2081.1 | 2102.3 | 2127.6 | 2127.1 | 2126.8 | 2100.8 | 2078.8 | 2068.8 | 2078.8 | 2100.8 |
| 30°    | 1967.1 | 1980.1 | 2012.1 | 2045.3 | 2045.1 | 2043.8 | 2009.8 | 1977.8 | 1964.1 | 1977.8 | 2009.8 |
| 32.5°  | 1871.1 | 1881.1 | 1918.1 | 1961.3 | 1960.8 | 1959.8 | 1915.8 | 1878.1 | 1868.1 | 1878.1 | 1915.8 |
| 35°    | 1765.3 | 1775.3 | 1813.3 | 1867.3 | 1871.1 | 1865.1 | 1811.1 | 1773.1 | 1763.1 | 1773.1 | 1811.1 |
| 37.5°  | 1660.3 | 1666.3 | 1704.3 | 1768.3 | 1777.8 | 1766.1 | 1702.1 | 1664.1 | 1658.1 | 1664.1 | 1702.1 |
| 40°    | 1564.3 | 1558.3 | 1584.3 | 1658.6 | 1685.8 | 1657.1 | 1581.3 | 1555.3 | 1561.3 | 1555.3 | 1581.3 |
| 42.5°  | 1468.3 | 1456.3 | 1468.6 | 1543.6 | 1577.8 | 1542.1 | 1466.3 | 1453.3 | 1465.3 | 1453.3 | 1466.3 |
| 45°    | 1375.6 | 1349.6 | 1350.6 | 1421.6 | 1461.8 | 1420.1 | 1347.5 | 1347.3 | 1373.3 | 1347.3 | 1347.5 |
| 47.5°  | 1281.6 | 1256.6 | 1246.6 | 1299.8 | 1343.8 | 1299.1 | 1243.5 | 1254.3 | 1279.3 | 1254.3 | 1243.5 |
| 50°    | 1181.6 | 1165.6 | 1139.6 | 1175.8 | 1194.1 | 1174.3 | 1136.5 | 1162.5 | 1179.3 | 1162.5 | 1136.5 |
| 52.5°  | 1098.6 | 1078.6 | 1040.8 | 1054.8 | 1046.1 | 1053.3 | 1038.5 | 1075.5 | 1096.3 | 1075.5 | 1038.5 |
| 55°    | 1003.8 | 992.8  | 949.8  | 929.1  | 889.3  | 927.5  | 947.5  | 990.5  | 1002.3 | 990.5  | 947.5  |
| 57.5°  | 919.8  | 910.8  | 855.8  | 809.1  | 757.3  | 807.5  | 853.5  | 908.5  | 918.3  | 908.5  | 853.5  |
| 60°    | 827.1  | 827.1  | 761.1  | 686.3  | 647.3  | 685.5  | 759.5  | 825.5  | 826.3  | 825.5  | 759.5  |
| 62.5°  | 738.1  | 735.1  | 665.1  | 576.3  | 559.5  | 575.5  | 663.5  | 733.5  | 737.3  | 733.5  | 663.5  |
| 65°    | 651.3  | 637.3  | 569.3  | 482.3  | 477.5  | 481.5  | 568.5  | 636.5  | 651.3  | 636.5  | 568.5  |
| 67.5°  | 561.3  | 544.3  | 477.3  | 400.5  | 409.5  | 400.5  | 476.5  | 543.5  | 561.3  | 543.5  | 476.5  |
| 70°    | 476.5  | 452.5  | 397.5  | 330.5  | 340.5  | 330.5  | 397.5  | 453.3  | 477.3  | 453.3  | 397.5  |
| 72.5°  | 406.5  | 367.5  | 319.5  | 270.5  | 285.8  | 269.8  | 319.5  | 368.3  | 408.1  | 368.3  | 319.5  |
| 75°    | 341.5  | 297.5  | 247.8  | 216.8  | 236.8  | 216.8  | 248.5  | 298.3  | 343.8  | 298.3  | 248.5  |
| 77.5°  | 299.6  | 246.6  | 193.8  | 167.8  | 189.8  | 167.8  | 194.5  | 244.3  | 296.6  | 244.3  | 194.5  |
| 80°    | 261.6  | 213.3  | 156.1  | 124.8  | 144.8  | 124.8  | 154.5  | 201.1  | 247.1  | 201.1  | 154.5  |
| 82.5°  | 241.9  | 197.1  | 136.2  | 89.8   | 99.8   | 89.8   | 127.1  | 169.6  | 212.9  | 169.6  | 127.1  |
| 85°    | 229.6  | 193.0  | 133.0  | 71.1   | 60.8   | 69.5   | 110.9  | 146.4  | 180.0  | 146.4  | 110.9  |
| 87.5°  | 225.1  | 199.2  | 135.2  | 68.5   | 20.0   | 57.8   | 91.6   | 125.9  | 146.5  | 125.9  | 91.6   |
| 90°    | 228.9  | 209.2  | 147.6  | 68.5   | 1.8    | 39.5   | 72.1   | 101.6  | 114.3  | 101.6  | 72.1   |
| 92.5°  | 239.5  | 225.3  | 162.9  | 75.2   | 13.2   | 22.5   | 58.3   | 84.1   | 89.8   | 84.1   | 58.3   |
| 95°    | 251.3  | 246.7  | 180.7  | 86.4   | 31.5   | 10.1   | 43.3   | 69.5   | 70.3   | 69.5   | 43.3   |
| 97.5°  | 268.9  | 265.0  | 199.3  | 108.9  | 55.2   | 11.2   | 30.6   | 55.1   | 55.1   | 55.1   | 30.6   |
| 100°   | 284.6  | 281.9  | 219.7  | 141.7  | 85.2   | 27.2   | 17.3   | 42.1   | 44.1   | 42.1   | 17.3   |
| 102.5° | 314.2  | 302.0  | 243.0  | 173.0  | 116.5  | 49.3   | 15.5   | 27.1   | 30.1   | 27.1   | 15.5   |
| 105°   | 339.8  | 325.1  | 279.4  | 205.9  | 152.4  | 79.1   | 32.8   | 18.2   | 18.3   | 18.2   | 32.8   |
| 107.5° | 365.6  | 356.0  | 313.0  | 239.5  | 190.6  | 113.5  | 58.7   | 32.3   | 23.6   | 32.3   | 58.7   |
| 110°   | 401.8  | 392.7  | 345.9  | 273.1  | 230.3  | 150.1  | 88.5   | 56.7   | 44.5   | 56.7   | 88.5   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 438.5  | 431.6  | 376.4  | 308.2  | 271.5  | 189.8  | 125.2  | 87.2   | 75.8   | 87.2   | 125.2  |
| 115°   | 466.7  | 461.9  | 411.5  | 341.0  | 309.7  | 234.9  | 165.6  | 122.1  | 109.4  | 122.1  | 165.6  |
| 117.5° | 496.5  | 494.8  | 437.5  | 375.6  | 356.5  | 276.4  | 203.1  | 158.0  | 144.5  | 158.0  | 203.1  |
| 120°   | 533.9  | 527.8  | 473.4  | 409.2  | 400.1  | 319.1  | 244.3  | 200.2  | 185.7  | 200.2  | 244.3  |
| 122.5° | 559.9  | 556.1  | 503.9  | 441.3  | 441.3  | 362.6  | 284.0  | 239.9  | 224.7  | 239.9  | 284.0  |
| 125°   | 583.6  | 582.0  | 527.8  | 473.4  | 485.6  | 403.1  | 329.3  | 283.5  | 266.7  | 283.5  | 329.3  |
| 127.5° | 604.9  | 607.2  | 557.6  | 508.5  | 530.6  | 444.4  | 372.8  | 322.4  | 304.9  | 322.4  | 372.8  |
| 130°   | 623.3  | 630.9  | 585.9  | 540.6  | 573.4  | 489.4  | 411.8  | 361.4  | 349.9  | 361.4  | 411.8  |
| 132.5° | 659.2  | 654.6  | 614.9  | 574.4  | 619.2  | 531.6  | 453.0  | 400.3  | 387.3  | 400.3  | 453.0  |
| 135°   | 677.5  | 679.0  | 640.1  | 602.7  | 662.0  | 572.9  | 491.9  | 440.0  | 427.0  | 440.0  | 491.9  |
| 137.5° | 699.6  | 695.0  | 659.9  | 637.0  | 701.7  | 612.6  | 530.1  | 482.0  | 461.4  | 482.0  | 530.1  |
| 140°   | 715.7  | 714.9  | 685.9  | 667.6  | 744.4  | 651.5  | 569.1  | 520.2  | 501.1  | 520.2  | 569.1  |
| 142.5° | 732.5  | 738.0  | 711.8  | 701.2  | 787.2  | 692.8  | 611.1  | 558.6  | 539.3  | 558.6  | 611.1  |
| 145°   | 744.9  | 754.8  | 737.8  | 743.2  | 827.7  | 738.6  | 647.7  | 594.5  | 574.6  | 594.5  | 647.7  |
| 147.5° | 764.0  | 777.0  | 756.9  | 772.9  | 862.8  | 779.0  | 684.4  | 631.9  | 614.3  | 631.9  | 684.4  |
| 150°   | 789.0  | 795.1  | 783.6  | 814.2  | 898.7  | 824.1  | 721.8  | 666.8  | 649.2  | 666.8  | 721.8  |
| 152.5° | 809.6  | 817.2  | 804.2  | 859.2  | 926.9  | 865.3  | 763.0  | 701.9  | 681.3  | 701.9  | 763.0  |
| 155°   | 831.0  | 834.0  | 824.9  | 902.7  | 957.7  | 905.8  | 795.8  | 740.9  | 721.0  | 740.9  | 795.8  |
| 157.5° | 850.8  | 856.9  | 846.2  | 935.6  | 983.7  | 940.9  | 833.3  | 779.8  | 762.2  | 779.8  | 833.3  |
| 160°   | 872.2  | 872.2  | 878.3  | 973.8  | 1005.1 | 971.5  | 873.0  | 822.6  | 798.1  | 822.6  | 873.0  |
| 162.5° | 874.5  | 889.0  | 921.8  | 1000.5 | 1025.7 | 998.2  | 915.7  | 853.1  | 831.7  | 853.1  | 915.7  |
| 165°   | 908.1  | 921.1  | 970.7  | 1024.2 | 1041.7 | 1021.9 | 968.4  | 903.5  | 878.3  | 903.5  | 968.4  |
| 167.5° | 943.2  | 970.7  | 1010.4 | 1051.9 | 1058.0 | 1045.0 | 1008.9 | 963.8  | 940.9  | 963.8  | 1008.9 |
| 170°   | 999.5  | 1024.2 | 1044.0 | 1060.8 | 1070.2 | 1061.6 | 1034.1 | 1011.9 | 996.4  | 1011.9 | 1034.1 |
| 172.5° | 1043.5 | 1060.8 | 1068.4 | 1080.1 | 1074.8 | 1071.7 | 1057.0 | 1046.3 | 1036.7 | 1046.3 | 1057.0 |
| 175°   | 1071.8 | 1076.8 | 1083.7 | 1080.9 | 1085.5 | 1077.1 | 1076.8 | 1082.2 | 1048.9 | 1082.2 | 1076.8 |
| 177.5° | 1081.7 | 1089.1 | 1085.2 | 1079.4 | 1080.1 | 1078.6 | 1080.7 | 1083.7 | 1077.1 | 1083.7 | 1080.7 |
| 180°   | 1083.7 | 1083.7 | 1083.7 | 1083.7 | 1083.7 | 1083.7 | 1083.7 | 1083.7 | 1083.7 | 1083.7 | 1083.7 |



TEST NUMBER: P392651

CATALOG NUMBER: MWL-4-26-60-UNV-L840-EDD

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2571.3 | 2571.3 | 2571.3 | 2571.3 | 2571.3 | 2571.3 |
| 2.5°   | 2573.1 | 2574.9 | 2573.9 | 2560.1 | 2568.6 | 2562.1 |
| 5°     | 2561.1 | 2562.1 | 2561.1 | 2549.1 | 2557.6 | 2552.1 |
| 7.5°   | 2541.3 | 2541.1 | 2542.1 | 2527.3 | 2537.3 | 2531.8 |
| 10°    | 2511.6 | 2512.3 | 2512.3 | 2499.3 | 2505.3 | 2506.6 |
| 12.5°  | 2476.6 | 2474.8 | 2476.6 | 2466.6 | 2470.3 | 2469.1 |
| 15°    | 2433.8 | 2433.8 | 2434.6 | 2420.6 | 2423.3 | 2425.9 |
| 17.5°  | 2382.8 | 2383.8 | 2382.8 | 2369.6 | 2373.3 | 2372.9 |
| 20°    | 2327.1 | 2329.1 | 2327.8 | 2313.6 | 2313.1 | 2312.9 |
| 22.5°  | 2266.1 | 2265.1 | 2266.8 | 2249.6 | 2247.1 | 2239.1 |
| 25°    | 2198.1 | 2198.1 | 2198.8 | 2178.3 | 2164.1 | 2157.1 |
| 27.5°  | 2126.8 | 2127.1 | 2127.6 | 2102.3 | 2081.1 | 2071.1 |
| 30°    | 2043.8 | 2045.1 | 2045.3 | 2012.1 | 1980.1 | 1967.1 |
| 32.5°  | 1959.8 | 1960.8 | 1961.3 | 1918.1 | 1881.1 | 1871.1 |
| 35°    | 1865.1 | 1871.1 | 1867.3 | 1813.3 | 1775.3 | 1765.3 |
| 37.5°  | 1766.1 | 1777.8 | 1768.3 | 1704.3 | 1666.3 | 1660.3 |
| 40°    | 1657.1 | 1685.8 | 1658.6 | 1584.3 | 1558.3 | 1564.3 |
| 42.5°  | 1542.1 | 1577.8 | 1543.6 | 1468.6 | 1456.3 | 1468.3 |
| 45°    | 1420.1 | 1461.8 | 1421.6 | 1350.6 | 1349.6 | 1375.6 |
| 47.5°  | 1299.1 | 1343.8 | 1299.8 | 1246.6 | 1256.6 | 1281.6 |
| 50°    | 1174.3 | 1194.1 | 1175.8 | 1139.6 | 1165.6 | 1181.6 |
| 52.5°  | 1053.3 | 1046.1 | 1054.8 | 1040.8 | 1078.6 | 1098.6 |
| 55°    | 927.5  | 889.3  | 929.1  | 949.8  | 992.8  | 1003.8 |
| 57.5°  | 807.5  | 757.3  | 809.1  | 855.8  | 910.8  | 919.8  |
| 60°    | 685.5  | 647.3  | 686.3  | 761.1  | 827.1  | 827.1  |
| 62.5°  | 575.5  | 559.5  | 576.3  | 665.1  | 735.1  | 738.1  |
| 65°    | 481.5  | 477.5  | 482.3  | 569.3  | 637.3  | 651.3  |
| 67.5°  | 400.5  | 409.5  | 400.5  | 477.3  | 544.3  | 561.3  |
| 70°    | 330.5  | 340.5  | 330.5  | 397.5  | 452.5  | 476.5  |
| 72.5°  | 269.8  | 285.8  | 270.5  | 319.5  | 367.5  | 406.5  |
| 75°    | 216.8  | 236.8  | 216.8  | 247.8  | 297.5  | 341.5  |
| 77.5°  | 167.8  | 189.8  | 167.8  | 193.8  | 246.6  | 299.6  |
| 80°    | 124.8  | 144.8  | 124.8  | 156.1  | 213.3  | 261.6  |
| 82.5°  | 89.8   | 99.8   | 89.8   | 136.2  | 197.1  | 241.9  |
| 85°    | 69.5   | 60.8   | 71.1   | 133.0  | 193.0  | 229.6  |
| 87.5°  | 57.8   | 20.0   | 68.5   | 135.2  | 199.2  | 225.1  |
| 90°    | 39.5   | 1.8    | 68.5   | 147.6  | 209.2  | 228.9  |
| 92.5°  | 22.5   | 13.2   | 75.2   | 162.9  | 225.3  | 239.5  |
| 95°    | 10.1   | 31.5   | 86.4   | 180.7  | 246.7  | 251.3  |
| 97.5°  | 11.2   | 55.2   | 108.9  | 199.3  | 265.0  | 268.9  |
| 100°   | 27.2   | 85.2   | 141.7  | 219.7  | 281.9  | 284.6  |
| 102.5° | 49.3   | 116.5  | 173.0  | 243.0  | 302.0  | 314.2  |
| 105°   | 79.1   | 152.4  | 205.9  | 279.4  | 325.1  | 339.8  |
| 107.5° | 113.5  | 190.6  | 239.5  | 313.0  | 356.0  | 365.6  |
| 110°   | 150.1  | 230.3  | 273.1  | 345.9  | 392.7  | 401.8  |





TEST NUMBER: P392651

CATALOG NUMBER: MWL-4-26-60-UNV-L840-EDD

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 189.8  | 271.5  | 308.2  | 376.4  | 431.6  | 438.5  |
| 115°   | 234.9  | 309.7  | 341.0  | 411.5  | 461.9  | 466.7  |
| 117.5° | 276.4  | 356.5  | 375.6  | 437.5  | 494.8  | 496.5  |
| 120°   | 319.1  | 400.1  | 409.2  | 473.4  | 527.8  | 533.9  |
| 122.5° | 362.6  | 441.3  | 441.3  | 503.9  | 556.1  | 559.9  |
| 125°   | 403.1  | 485.6  | 473.4  | 527.8  | 582.0  | 583.6  |
| 127.5° | 444.4  | 530.6  | 508.5  | 557.6  | 607.2  | 604.9  |
| 130°   | 489.4  | 573.4  | 540.6  | 585.9  | 630.9  | 623.3  |
| 132.5° | 531.6  | 619.2  | 574.4  | 614.9  | 654.6  | 659.2  |
| 135°   | 572.9  | 662.0  | 602.7  | 640.1  | 679.0  | 677.5  |
| 137.5° | 612.6  | 701.7  | 637.0  | 659.9  | 695.0  | 699.6  |
| 140°   | 651.5  | 744.4  | 667.6  | 685.9  | 714.9  | 715.7  |
| 142.5° | 692.8  | 787.2  | 701.2  | 711.8  | 738.0  | 732.5  |
| 145°   | 738.6  | 827.7  | 743.2  | 737.8  | 754.8  | 744.9  |
| 147.5° | 779.0  | 862.8  | 772.9  | 756.9  | 777.0  | 764.0  |
| 150°   | 824.1  | 898.7  | 814.2  | 783.6  | 795.1  | 789.0  |
| 152.5° | 865.3  | 926.9  | 859.2  | 804.2  | 817.2  | 809.6  |
| 155°   | 905.8  | 957.7  | 902.7  | 824.9  | 834.0  | 831.0  |
| 157.5° | 940.9  | 983.7  | 935.6  | 846.2  | 856.9  | 850.8  |
| 160°   | 971.5  | 1005.1 | 973.8  | 878.3  | 872.2  | 872.2  |
| 162.5° | 998.2  | 1025.7 | 1000.5 | 921.8  | 889.0  | 874.5  |
| 165°   | 1021.9 | 1041.7 | 1024.2 | 970.7  | 921.1  | 908.1  |
| 167.5° | 1045.0 | 1058.0 | 1051.9 | 1010.4 | 970.7  | 943.2  |
| 170°   | 1061.6 | 1070.2 | 1060.8 | 1044.0 | 1024.2 | 999.5  |
| 172.5° | 1071.7 | 1074.8 | 1080.1 | 1068.4 | 1060.8 | 1043.5 |
| 175°   | 1077.1 | 1085.5 | 1080.9 | 1083.7 | 1076.8 | 1071.8 |
| 177.5° | 1078.6 | 1080.1 | 1079.4 | 1085.2 | 1089.1 | 1081.7 |
| 180°   | 1083.7 | 1083.7 | 1083.7 | 1083.7 | 1083.7 | 1083.7 |

(END OF REPORT)