

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: P392602

Luminaire Tested: **MWL-3-37-47-UNV-L835-EDD**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P392602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-565-13 &
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MWL-3-37-47-UNV-L835-EDD
Description: MWL 3FT MEDICAL LED FIXTURE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

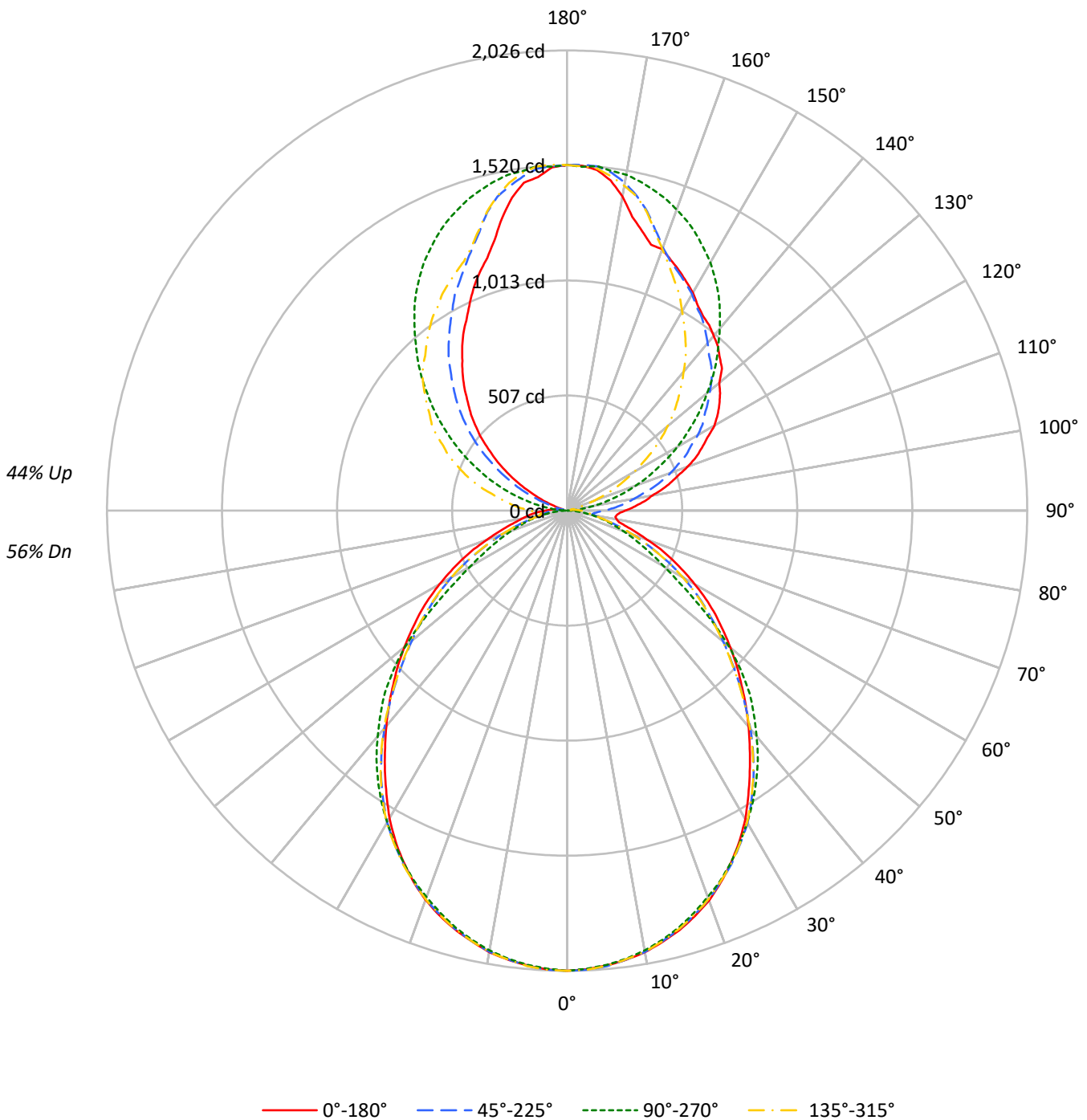
Lumens per Lamp: N/A
Luminaire Lumens: 8341.0 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.17 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 3' x H: 0.42')
CIE Type: General Diffuse

Input Watts (W): 90.4
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: P392602
CATALOG NUMBER: MWL-3-37-47-UNV-L835-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P392602

CATALOG NUMBER: MWL-3-37-47-UNV-L835-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 | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 74 | 74 | 74 | 62 | 62 | 62 | 56 |
| 1 | 99 | 95 | 91 | 88 | 92 | 89 | 85 | 82 | 76 | 74 | 72 | 65 | 63 | 62 | 55 | 54 | 53 | 48 |
| 2 | 91 | 83 | 77 | 72 | 84 | 78 | 73 | 68 | 67 | 63 | 60 | 58 | 55 | 52 | 49 | 47 | 45 | 41 |
| 3 | 83 | 74 | 66 | 61 | 77 | 69 | 63 | 57 | 60 | 55 | 51 | 51 | 48 | 45 | 44 | 41 | 39 | 35 |
| 4 | 76 | 66 | 58 | 52 | 71 | 61 | 54 | 49 | 53 | 48 | 44 | 46 | 42 | 39 | 39 | 36 | 34 | 30 |
| 5 | 70 | 59 | 51 | 45 | 65 | 55 | 48 | 42 | 48 | 42 | 38 | 42 | 37 | 34 | 36 | 32 | 30 | 26 |
| 6 | 65 | 53 | 45 | 39 | 60 | 50 | 42 | 37 | 43 | 38 | 33 | 38 | 33 | 30 | 32 | 29 | 26 | 23 |
| 7 | 60 | 48 | 40 | 34 | 56 | 45 | 38 | 33 | 39 | 34 | 30 | 34 | 30 | 26 | 30 | 26 | 23 | 21 |
| 8 | 56 | 43 | 36 | 30 | 52 | 41 | 34 | 29 | 36 | 30 | 26 | 32 | 27 | 24 | 27 | 24 | 21 | 19 |
| 9 | 52 | 40 | 32 | 27 | 48 | 38 | 31 | 26 | 33 | 28 | 24 | 29 | 25 | 21 | 25 | 22 | 19 | 17 |
| 10 | 49 | 37 | 29 | 25 | 45 | 35 | 28 | 24 | 31 | 25 | 21 | 27 | 23 | 19 | 23 | 20 | 17 | 15 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|-------|
| 0° | 17447 | 17447 | 17447 | 17447 |
| 5° | 17167 | 15957 | 17167 | 15957 |
| 10° | 16848 | 14615 | 16848 | 14615 |
| 15° | 16436 | 13360 | 16409 | 13360 |
| 20° | 15935 | 12164 | 15907 | 12164 |
| 25° | 15247 | 11064 | 15220 | 11064 |
| 30° | 14435 | 9989 | 14397 | 9989 |
| 35° | 13432 | 8977 | 13402 | 8977 |
| 40° | 12512 | 7932 | 12470 | 7932 |
| 45° | 11608 | 6909 | 11573 | 6909 |
| 50° | 10783 | 5685 | 10746 | 5685 |
| 55° | 9966 | 4243 | 9940 | 4243 |
| 60° | 9010 | 3112 | 8995 | 3112 |
| 65° | 7997 | 2351 | 7997 | 2351 |
| 70° | 6808 | 1744 | 6828 | 1744 |
| 75° | 5884 | 1259 | 5954 | 1259 |
| 80° | 6119 | 797 | 5553 | 797 |
| 85° | 8385 | 337 | 5728 | 337 |



TEST NUMBER: P392602

CATALOG NUMBER: MWL-3-37-47-UNV-L835-EDD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 190.7 | 2.3 |
| 10°-20° | 536.9 | 6.4 |
| 20°-30° | 786.7 | 9.4 |
| 30°-40° | 891.9 | 10.7 |
| 40°-50° | 838.8 | 10.1 |
| 50°-60° | 666.0 | 8.0 |
| 60°-70° | 433.6 | 5.2 |
| 70°-80° | 221.6 | 2.7 |
| 80°-90° | 121.2 | 1.5 |
| 90°-100° | 138.5 | 1.7 |
| 100°-110° | 238.3 | 2.9 |
| 110°-120° | 405.0 | 4.9 |
| 120°-130° | 549.9 | 6.6 |
| 130°-140° | 627.0 | 7.5 |
| 140°-150° | 625.2 | 7.5 |
| 150°-160° | 544.3 | 6.5 |
| 160°-170° | 382.8 | 4.6 |
| 170°-180° | 142.5 | 1.7 |
| 0°-30° | 1514.3 | 18.2 |
| 0°-40° | 2406.2 | 28.8 |
| 0°-60° | 3911.0 | 46.9 |
| 0°-90° | 4687.4 | 56.2 |
| 90°-120° | 781.8 | 9.4 |
| 90°-150° | 2583.9 | 31.0 |
| 90°-180° | 3654.0 | 43.8 |
| 0°-180° | 8341.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 2026 | 2026 | 2026 | 2026 | 2026 | |
| 5° | 2010 | 2008 | 2010 | 2008 | 2010 | 191 |
| 15° | 1912 | 1900 | 1909 | 1900 | 1912 | 539 |
| 25° | 1709 | 1708 | 1706 | 1708 | 1709 | 786 |
| 35° | 1402 | 1452 | 1399 | 1452 | 1402 | 877 |
| 45° | 1086 | 1135 | 1082 | 1135 | 1086 | 840 |
| 55° | 796 | 686 | 793 | 686 | 796 | 710 |
| 65° | 509 | 363 | 509 | 363 | 509 | 505 |
| 75° | 268 | 179 | 272 | 179 | 268 | 295 |
| 85° | 220 | 42 | 150 | 42 | 220 | 180 |
| 90° | 255 | 2 | 94 | 2 | 255 | 141 |
| 95° | 316 | 44 | 61 | 44 | 316 | 272 |
| 105° | 470 | 213 | 18 | 213 | 470 | 497 |
| 115° | 654 | 434 | 152 | 434 | 654 | 649 |
| 125° | 818 | 681 | 373 | 681 | 818 | 731 |
| 135° | 950 | 929 | 598 | 929 | 950 | 734 |
| 145° | 1044 | 1162 | 804 | 1162 | 1044 | 658 |
| 155° | 1166 | 1343 | 1012 | 1343 | 1166 | 538 |
| 165° | 1274 | 1462 | 1233 | 1462 | 1274 | 362 |
| 175° | 1506 | 1522 | 1473 | 1522 | 1506 | 140 |
| 180° | 1521 | 1521 | 1521 | 1521 | 1521 | |



TEST NUMBER: P392602

CATALOG NUMBER: MWL-3-37-47-UNV-L835-EDD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2026.1 | 2026.1 | 2026.1 | 2026.1 | 2026.1 | 2026.1 | 2026.1 | 2026.1 | 2026.1 | 2026.1 | 2026.1 |
| 2.5° | 2021.0 | 2024.1 | 2023.2 | 2020.4 | 2018.4 | 2019.3 | 2023.2 | 2024.1 | 2022.0 | 2024.1 | 2023.2 |
| 5° | 2010.1 | 2013.3 | 2013.4 | 2009.5 | 2007.5 | 2009.5 | 2012.3 | 2013.3 | 2010.1 | 2013.3 | 2012.3 |
| 7.5° | 1994.5 | 1998.5 | 1993.6 | 1992.8 | 1989.8 | 1991.7 | 1992.7 | 1997.6 | 1994.5 | 1997.6 | 1992.7 |
| 10° | 1974.0 | 1975.9 | 1973.0 | 1968.1 | 1966.1 | 1967.1 | 1972.0 | 1973.9 | 1974.0 | 1973.9 | 1972.0 |
| 12.5° | 1944.6 | 1944.5 | 1941.5 | 1937.6 | 1935.6 | 1937.6 | 1941.5 | 1942.4 | 1942.5 | 1942.4 | 1941.5 |
| 15° | 1912.3 | 1909.1 | 1907.2 | 1904.2 | 1900.2 | 1903.1 | 1906.1 | 1907.1 | 1909.1 | 1907.1 | 1906.1 |
| 17.5° | 1872.0 | 1869.8 | 1865.9 | 1862.8 | 1856.9 | 1862.8 | 1864.8 | 1868.8 | 1868.8 | 1868.8 | 1864.8 |
| 20° | 1826.8 | 1823.7 | 1821.7 | 1816.6 | 1810.6 | 1815.6 | 1820.6 | 1821.7 | 1823.6 | 1821.7 | 1820.6 |
| 22.5° | 1770.6 | 1770.6 | 1767.6 | 1766.5 | 1763.5 | 1765.4 | 1766.5 | 1768.6 | 1768.6 | 1768.6 | 1766.5 |
| 25° | 1708.7 | 1710.7 | 1714.5 | 1712.5 | 1707.5 | 1711.4 | 1712.5 | 1707.6 | 1705.6 | 1707.6 | 1712.5 |
| 27.5° | 1641.9 | 1644.9 | 1651.6 | 1655.6 | 1647.5 | 1654.5 | 1649.6 | 1641.7 | 1638.8 | 1641.7 | 1649.6 |
| 30° | 1568.2 | 1573.1 | 1588.8 | 1594.6 | 1584.6 | 1592.6 | 1585.7 | 1570.0 | 1564.0 | 1570.0 | 1585.7 |
| 32.5° | 1484.7 | 1492.5 | 1511.2 | 1524.9 | 1521.8 | 1522.8 | 1508.1 | 1488.3 | 1480.4 | 1488.3 | 1508.1 |
| 35° | 1402.0 | 1408.9 | 1431.5 | 1453.1 | 1451.9 | 1450.0 | 1428.3 | 1405.7 | 1398.9 | 1405.7 | 1428.3 |
| 37.5° | 1320.4 | 1321.4 | 1345.0 | 1374.5 | 1379.3 | 1371.3 | 1341.9 | 1318.3 | 1317.3 | 1318.3 | 1341.9 |
| 40° | 1242.8 | 1239.9 | 1255.6 | 1290.0 | 1297.7 | 1287.8 | 1251.4 | 1235.6 | 1238.6 | 1235.6 | 1251.4 |
| 42.5° | 1164.2 | 1153.4 | 1160.3 | 1202.5 | 1217.2 | 1200.3 | 1157.0 | 1149.1 | 1160.0 | 1149.1 | 1157.0 |
| 45° | 1085.6 | 1070.8 | 1068.9 | 1106.2 | 1134.6 | 1104.0 | 1064.5 | 1067.6 | 1082.3 | 1067.6 | 1064.5 |
| 47.5° | 1012.8 | 994.2 | 980.4 | 1007.8 | 1036.3 | 1006.7 | 976.1 | 990.9 | 1009.6 | 990.9 | 976.1 |
| 50° | 938.1 | 917.5 | 896.9 | 913.5 | 930.1 | 911.3 | 892.5 | 913.2 | 934.9 | 913.2 | 892.5 |
| 52.5° | 864.4 | 847.7 | 817.2 | 816.2 | 809.2 | 814.0 | 813.9 | 843.4 | 861.2 | 843.4 | 813.9 |
| 55° | 795.5 | 778.8 | 740.5 | 722.7 | 686.3 | 720.6 | 737.3 | 775.6 | 793.4 | 775.6 | 737.3 |
| 57.5° | 723.8 | 711.0 | 666.8 | 623.5 | 578.2 | 621.3 | 663.6 | 707.8 | 721.6 | 707.8 | 663.6 |
| 60° | 649.0 | 642.1 | 591.0 | 523.1 | 493.6 | 522.0 | 588.9 | 640.0 | 647.9 | 640.0 | 588.9 |
| 62.5° | 578.3 | 572.4 | 514.4 | 441.6 | 422.8 | 440.5 | 512.2 | 570.2 | 577.2 | 570.2 | 512.2 |
| 65° | 509.4 | 495.6 | 437.6 | 368.8 | 362.8 | 367.8 | 436.5 | 494.5 | 509.4 | 494.5 | 436.5 |
| 67.5° | 444.5 | 426.8 | 366.9 | 308.8 | 308.8 | 308.8 | 365.8 | 425.7 | 444.5 | 425.7 | 365.8 |
| 70° | 373.6 | 352.0 | 304.9 | 255.7 | 259.6 | 255.7 | 304.9 | 353.1 | 374.7 | 353.1 | 304.9 |
| 72.5° | 319.6 | 284.2 | 247.9 | 207.6 | 215.3 | 206.5 | 247.9 | 285.3 | 321.8 | 285.3 | 247.9 |
| 75° | 268.5 | 231.1 | 192.7 | 164.2 | 179.0 | 164.2 | 193.8 | 232.2 | 271.7 | 232.2 | 193.8 |
| 77.5° | 233.8 | 191.2 | 148.5 | 128.8 | 143.6 | 128.8 | 149.6 | 188.0 | 229.6 | 188.0 | 149.6 |
| 80° | 220.6 | 174.7 | 121.3 | 96.4 | 107.2 | 96.4 | 119.1 | 157.6 | 200.2 | 157.6 | 119.1 |
| 82.5° | 213.9 | 172.9 | 112.5 | 69.9 | 76.8 | 69.9 | 99.7 | 134.2 | 173.2 | 134.2 | 99.7 |
| 85° | 219.6 | 183.4 | 120.4 | 56.4 | 42.4 | 54.2 | 89.2 | 117.9 | 150.0 | 117.9 | 89.2 |
| 87.5° | 231.8 | 208.3 | 137.8 | 60.6 | 12.8 | 45.7 | 76.6 | 105.4 | 121.3 | 105.4 | 76.6 |
| 90° | 254.9 | 236.4 | 165.6 | 71.4 | 2.1 | 30.7 | 59.4 | 85.1 | 94.0 | 85.1 | 59.4 |
| 92.5° | 287.5 | 269.7 | 195.5 | 92.9 | 18.2 | 18.9 | 48.5 | 71.2 | 77.1 | 71.2 | 48.5 |
| 95° | 315.6 | 306.1 | 229.8 | 115.6 | 43.9 | 8.3 | 36.7 | 57.2 | 61.2 | 57.2 | 36.7 |
| 97.5° | 351.9 | 343.7 | 262.3 | 152.2 | 77.1 | 14.8 | 25.2 | 48.5 | 51.5 | 48.5 | 25.2 |
| 100° | 379.1 | 373.1 | 299.7 | 198.3 | 117.9 | 37.3 | 15.3 | 36.1 | 41.0 | 36.1 | 15.3 |
| 102.5° | 427.5 | 409.7 | 338.9 | 242.3 | 162.0 | 68.5 | 19.1 | 23.3 | 28.2 | 23.3 | 19.1 |
| 105° | 470.2 | 451.2 | 391.4 | 288.5 | 213.4 | 110.4 | 44.8 | 19.8 | 18.3 | 19.8 | 44.8 |
| 107.5° | 511.3 | 498.7 | 438.7 | 335.7 | 267.0 | 158.6 | 81.3 | 43.6 | 30.6 | 43.6 | 81.3 |
| 110° | 564.0 | 550.2 | 484.8 | 383.0 | 322.8 | 210.2 | 123.1 | 77.9 | 61.8 | 77.9 | 123.1 |



TEST NUMBER: P392602

CATALOG NUMBER: MWL-3-37-47-UNV-L835-EDD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 614.6 | 603.9 | 527.7 | 432.3 | 380.8 | 265.9 | 174.6 | 119.9 | 104.8 | 119.9 | 174.6 |
| 115° | 654.3 | 647.9 | 577.1 | 478.5 | 434.5 | 329.3 | 231.5 | 170.4 | 152.0 | 170.4 | 231.5 |
| 117.5° | 696.2 | 694.1 | 613.6 | 525.7 | 498.9 | 386.1 | 284.1 | 220.8 | 201.4 | 220.8 | 284.1 |
| 120° | 748.8 | 740.1 | 664.1 | 573.0 | 560.0 | 446.3 | 342.1 | 279.7 | 259.4 | 279.7 | 342.1 |
| 122.5° | 785.2 | 779.8 | 707.0 | 618.9 | 618.9 | 508.4 | 397.9 | 335.5 | 314.1 | 335.5 | 397.9 |
| 125° | 818.4 | 816.4 | 739.1 | 664.1 | 681.3 | 565.3 | 460.1 | 396.7 | 373.2 | 396.7 | 460.1 |
| 127.5° | 848.5 | 851.8 | 781.0 | 713.4 | 744.5 | 623.3 | 521.3 | 451.5 | 426.8 | 451.5 | 521.3 |
| 130° | 874.3 | 885.0 | 821.7 | 758.5 | 804.6 | 686.6 | 577.0 | 506.2 | 490.1 | 506.2 | 577.0 |
| 132.5° | 924.7 | 918.3 | 862.5 | 804.6 | 869.1 | 744.5 | 635.0 | 561.0 | 542.7 | 561.0 | 635.0 |
| 135° | 950.5 | 952.6 | 897.9 | 844.3 | 929.1 | 802.5 | 689.7 | 616.7 | 598.5 | 616.7 | 689.7 |
| 137.5° | 981.6 | 975.2 | 925.8 | 893.6 | 984.9 | 859.2 | 743.4 | 675.7 | 646.8 | 675.7 | 743.4 |
| 140° | 1004.2 | 1003.1 | 962.3 | 936.6 | 1045.0 | 914.0 | 798.1 | 729.4 | 702.6 | 729.4 | 798.1 |
| 142.5° | 1027.8 | 1034.2 | 998.8 | 983.7 | 1105.1 | 972.0 | 857.2 | 782.0 | 756.2 | 782.0 | 857.2 |
| 145° | 1043.9 | 1057.8 | 1035.2 | 1042.8 | 1162.0 | 1036.3 | 908.7 | 832.4 | 804.5 | 832.4 | 908.7 |
| 147.5° | 1070.7 | 1088.9 | 1062.1 | 1084.7 | 1211.4 | 1093.2 | 960.2 | 885.0 | 860.3 | 885.0 | 960.2 |
| 150° | 1107.2 | 1115.7 | 1099.6 | 1142.6 | 1261.8 | 1156.5 | 1012.7 | 935.5 | 910.8 | 935.5 | 1012.7 |
| 152.5° | 1136.2 | 1146.9 | 1128.6 | 1205.9 | 1301.5 | 1214.5 | 1070.7 | 984.8 | 955.8 | 984.8 | 1070.7 |
| 155° | 1166.2 | 1170.5 | 1157.6 | 1267.1 | 1343.3 | 1271.4 | 1116.8 | 1039.6 | 1011.7 | 1039.6 | 1116.8 |
| 157.5° | 1194.1 | 1202.7 | 1187.7 | 1312.3 | 1379.9 | 1319.8 | 1169.4 | 1094.3 | 1069.6 | 1094.3 | 1169.4 |
| 160° | 1224.1 | 1224.1 | 1232.8 | 1366.9 | 1409.9 | 1363.7 | 1225.2 | 1154.4 | 1120.1 | 1154.4 | 1225.2 |
| 162.5° | 1227.4 | 1247.7 | 1293.9 | 1404.5 | 1439.8 | 1401.2 | 1285.4 | 1197.3 | 1167.2 | 1197.3 | 1285.4 |
| 165° | 1274.5 | 1292.8 | 1362.6 | 1437.7 | 1462.4 | 1434.5 | 1359.4 | 1268.2 | 1232.8 | 1268.2 | 1359.4 |
| 167.5° | 1324.0 | 1362.6 | 1418.4 | 1475.3 | 1483.9 | 1465.6 | 1416.3 | 1353.0 | 1320.7 | 1353.0 | 1416.3 |
| 170° | 1403.5 | 1436.7 | 1465.6 | 1489.3 | 1501.1 | 1490.3 | 1451.6 | 1419.6 | 1399.2 | 1419.6 | 1451.6 |
| 172.5° | 1465.8 | 1488.3 | 1500.0 | 1515.0 | 1507.5 | 1503.1 | 1483.9 | 1467.9 | 1456.2 | 1467.9 | 1483.9 |
| 175° | 1505.5 | 1510.8 | 1521.4 | 1516.1 | 1522.5 | 1510.7 | 1511.8 | 1518.3 | 1473.4 | 1518.3 | 1511.8 |
| 177.5° | 1519.5 | 1528.0 | 1523.6 | 1513.9 | 1515.0 | 1512.9 | 1517.1 | 1520.4 | 1513.1 | 1520.4 | 1517.1 |
| 180° | 1521.4 | 1521.4 | 1521.4 | 1521.4 | 1521.4 | 1521.4 | 1521.4 | 1521.4 | 1521.4 | 1521.4 | 1521.4 |



TEST NUMBER: P392602

CATALOG NUMBER: MWL-3-37-47-UNV-L835-EDD

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2026.1 | 2026.1 | 2026.1 | 2026.1 | 2026.1 | 2026.1 |
| 2.5° | 2019.3 | 2018.4 | 2020.4 | 2023.2 | 2024.1 | 2021.0 |
| 5° | 2009.5 | 2007.5 | 2009.5 | 2013.4 | 2013.3 | 2010.1 |
| 7.5° | 1991.7 | 1989.8 | 1992.8 | 1993.6 | 1998.5 | 1994.5 |
| 10° | 1967.1 | 1966.1 | 1968.1 | 1973.0 | 1975.9 | 1974.0 |
| 12.5° | 1937.6 | 1935.6 | 1937.6 | 1941.5 | 1944.5 | 1944.6 |
| 15° | 1903.1 | 1900.2 | 1904.2 | 1907.2 | 1909.1 | 1912.3 |
| 17.5° | 1862.8 | 1856.9 | 1862.8 | 1865.9 | 1869.8 | 1872.0 |
| 20° | 1815.6 | 1810.6 | 1816.6 | 1821.7 | 1823.7 | 1826.8 |
| 22.5° | 1765.4 | 1763.5 | 1766.5 | 1767.6 | 1770.6 | 1770.6 |
| 25° | 1711.4 | 1707.5 | 1712.5 | 1714.5 | 1710.7 | 1708.7 |
| 27.5° | 1654.5 | 1647.5 | 1655.6 | 1651.6 | 1644.9 | 1641.9 |
| 30° | 1592.6 | 1584.6 | 1594.6 | 1588.8 | 1573.1 | 1568.2 |
| 32.5° | 1522.8 | 1521.8 | 1524.9 | 1511.2 | 1492.5 | 1484.7 |
| 35° | 1450.0 | 1451.9 | 1453.1 | 1431.5 | 1408.9 | 1402.0 |
| 37.5° | 1371.3 | 1379.3 | 1374.5 | 1345.0 | 1321.4 | 1320.4 |
| 40° | 1287.8 | 1297.7 | 1290.0 | 1255.6 | 1239.9 | 1242.8 |
| 42.5° | 1200.3 | 1217.2 | 1202.5 | 1160.3 | 1153.4 | 1164.2 |
| 45° | 1104.0 | 1134.6 | 1106.2 | 1068.9 | 1070.8 | 1085.6 |
| 47.5° | 1006.7 | 1036.3 | 1007.8 | 980.4 | 994.2 | 1012.8 |
| 50° | 911.3 | 930.1 | 913.5 | 896.9 | 917.5 | 938.1 |
| 52.5° | 814.0 | 809.2 | 816.2 | 817.2 | 847.7 | 864.4 |
| 55° | 720.6 | 686.3 | 722.7 | 740.5 | 778.8 | 795.5 |
| 57.5° | 621.3 | 578.2 | 623.5 | 666.8 | 711.0 | 723.8 |
| 60° | 522.0 | 493.6 | 523.1 | 591.0 | 642.1 | 649.0 |
| 62.5° | 440.5 | 422.8 | 441.6 | 514.4 | 572.4 | 578.3 |
| 65° | 367.8 | 362.8 | 368.8 | 437.6 | 495.6 | 509.4 |
| 67.5° | 308.8 | 308.8 | 308.8 | 366.9 | 426.8 | 444.5 |
| 70° | 255.7 | 259.6 | 255.7 | 304.9 | 352.0 | 373.6 |
| 72.5° | 206.5 | 215.3 | 207.6 | 247.9 | 284.2 | 319.6 |
| 75° | 164.2 | 179.0 | 164.2 | 192.7 | 231.1 | 268.5 |
| 77.5° | 128.8 | 143.6 | 128.8 | 148.5 | 191.2 | 233.8 |
| 80° | 96.4 | 107.2 | 96.4 | 121.3 | 174.7 | 220.6 |
| 82.5° | 69.9 | 76.8 | 69.9 | 112.5 | 172.9 | 213.9 |
| 85° | 54.2 | 42.4 | 56.4 | 120.4 | 183.4 | 219.6 |
| 87.5° | 45.7 | 12.8 | 60.6 | 137.8 | 208.3 | 231.8 |
| 90° | 30.7 | 2.1 | 71.4 | 165.6 | 236.4 | 254.9 |
| 92.5° | 18.9 | 18.2 | 92.9 | 195.5 | 269.7 | 287.5 |
| 95° | 8.3 | 43.9 | 115.6 | 229.8 | 306.1 | 315.6 |
| 97.5° | 14.8 | 77.1 | 152.2 | 262.3 | 343.7 | 351.9 |
| 100° | 37.3 | 117.9 | 198.3 | 299.7 | 373.1 | 379.1 |
| 102.5° | 68.5 | 162.0 | 242.3 | 338.9 | 409.7 | 427.5 |
| 105° | 110.4 | 213.4 | 288.5 | 391.4 | 451.2 | 470.2 |
| 107.5° | 158.6 | 267.0 | 335.7 | 438.7 | 498.7 | 511.3 |
| 110° | 210.2 | 322.8 | 383.0 | 484.8 | 550.2 | 564.0 |



TEST NUMBER: P392602

CATALOG NUMBER: MWL-3-37-47-UNV-L835-EDD

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 265.9 | 380.8 | 432.3 | 527.7 | 603.9 | 614.6 |
| 115° | 329.3 | 434.5 | 478.5 | 577.1 | 647.9 | 654.3 |
| 117.5° | 386.1 | 498.9 | 525.7 | 613.6 | 694.1 | 696.2 |
| 120° | 446.3 | 560.0 | 573.0 | 664.1 | 740.1 | 748.8 |
| 122.5° | 508.4 | 618.9 | 618.9 | 707.0 | 779.8 | 785.2 |
| 125° | 565.3 | 681.3 | 664.1 | 739.1 | 816.4 | 818.4 |
| 127.5° | 623.3 | 744.5 | 713.4 | 781.0 | 851.8 | 848.5 |
| 130° | 686.6 | 804.6 | 758.5 | 821.7 | 885.0 | 874.3 |
| 132.5° | 744.5 | 869.1 | 804.6 | 862.5 | 918.3 | 924.7 |
| 135° | 802.5 | 929.1 | 844.3 | 897.9 | 952.6 | 950.5 |
| 137.5° | 859.2 | 984.9 | 893.6 | 925.8 | 975.2 | 981.6 |
| 140° | 914.0 | 1045.0 | 936.6 | 962.3 | 1003.1 | 1004.2 |
| 142.5° | 972.0 | 1105.1 | 983.7 | 998.8 | 1034.2 | 1027.8 |
| 145° | 1036.3 | 1162.0 | 1042.8 | 1035.2 | 1057.8 | 1043.9 |
| 147.5° | 1093.2 | 1211.4 | 1084.7 | 1062.1 | 1088.9 | 1070.7 |
| 150° | 1156.5 | 1261.8 | 1142.6 | 1099.6 | 1115.7 | 1107.2 |
| 152.5° | 1214.5 | 1301.5 | 1205.9 | 1128.6 | 1146.9 | 1136.2 |
| 155° | 1271.4 | 1343.3 | 1267.1 | 1157.6 | 1170.5 | 1166.2 |
| 157.5° | 1319.8 | 1379.9 | 1312.3 | 1187.7 | 1202.7 | 1194.1 |
| 160° | 1363.7 | 1409.9 | 1366.9 | 1232.8 | 1224.1 | 1224.1 |
| 162.5° | 1401.2 | 1439.8 | 1404.5 | 1293.9 | 1247.7 | 1227.4 |
| 165° | 1434.5 | 1462.4 | 1437.7 | 1362.6 | 1292.8 | 1274.5 |
| 167.5° | 1465.6 | 1483.9 | 1475.3 | 1418.4 | 1362.6 | 1324.0 |
| 170° | 1490.3 | 1501.1 | 1489.3 | 1465.6 | 1436.7 | 1403.5 |
| 172.5° | 1503.1 | 1507.5 | 1515.0 | 1500.0 | 1488.3 | 1465.8 |
| 175° | 1510.7 | 1522.5 | 1516.1 | 1521.4 | 1510.8 | 1505.5 |
| 177.5° | 1512.9 | 1515.0 | 1513.9 | 1523.6 | 1528.0 | 1519.5 |
| 180° | 1521.4 | 1521.4 | 1521.4 | 1521.4 | 1521.4 | 1521.4 |

(END OF REPORT)