

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: P392618

Luminaire Tested: **MWL-3-53-25-UNV-L940-EDD**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P392618
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-3-53-25-UNV-L940-EDD
Description: MWL 3FT MEDICAL LED FIXTURE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

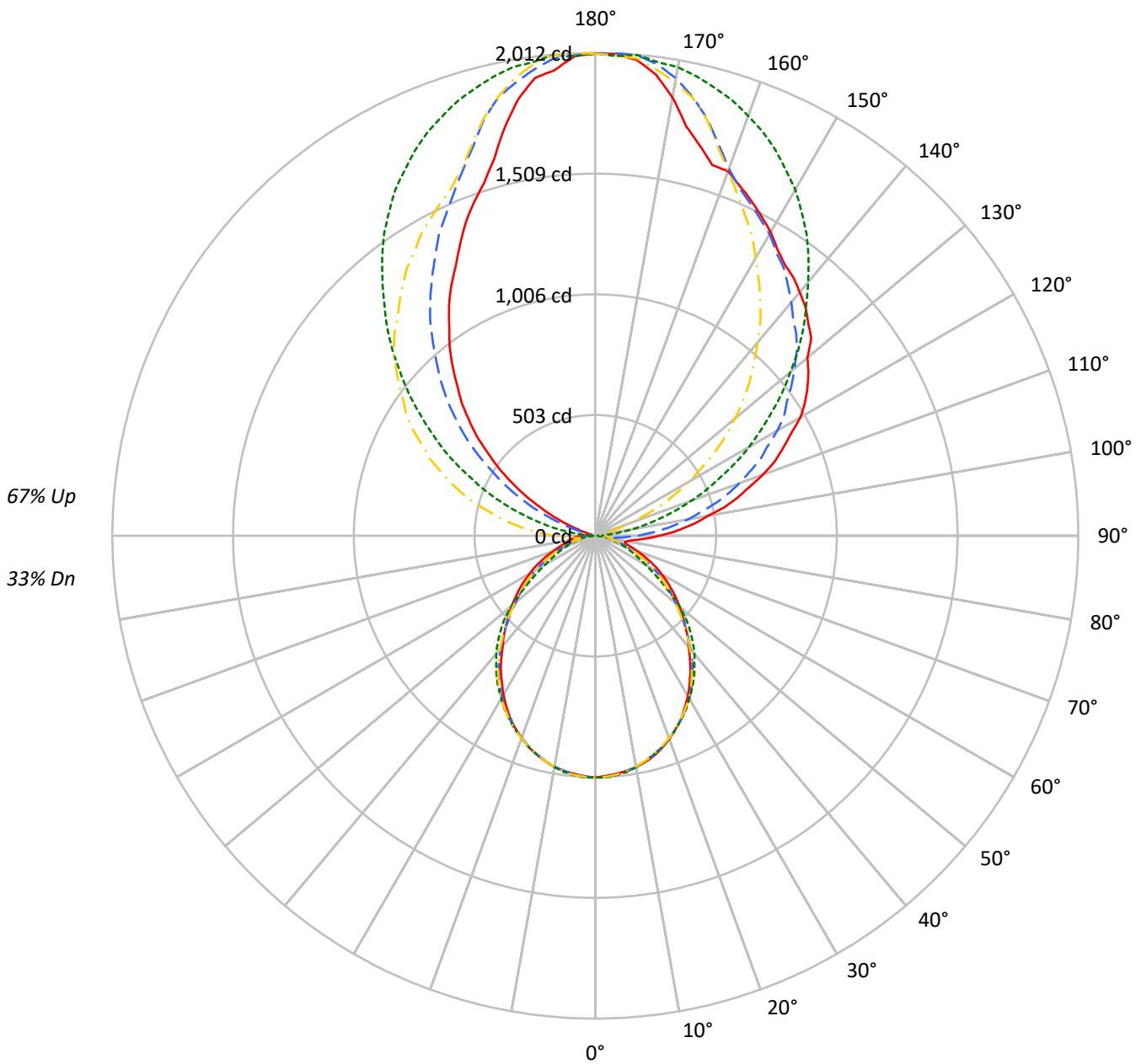
Lumens per Lamp: N/A
Luminaire Lumens: 7117.6 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.16 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 3' x H: 0.42')
CIE Type: Semi-Indirect

Input Watts (W): 94.536
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: P392618
CATALOG NUMBER: MWL-3-53-25-UNV-L940-EDD

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



TEST NUMBER: P392618

CATALOG NUMBER: MWL-3-53-25-UNV-L940-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 | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 56 | 56 | 56 | 40 | 40 | 40 | 33 |
| 1 | 94 | 90 | 86 | 82 | 84 | 81 | 78 | 75 | 65 | 62 | 60 | 49 | 48 | 47 | 36 | 35 | 34 | 28 |
| 2 | 86 | 79 | 73 | 68 | 77 | 71 | 66 | 62 | 57 | 53 | 50 | 44 | 41 | 39 | 32 | 30 | 29 | 23 |
| 3 | 78 | 69 | 62 | 57 | 70 | 63 | 57 | 52 | 50 | 46 | 42 | 39 | 36 | 33 | 28 | 26 | 25 | 20 |
| 4 | 72 | 61 | 54 | 48 | 64 | 56 | 49 | 44 | 45 | 40 | 36 | 35 | 31 | 29 | 25 | 23 | 22 | 17 |
| 5 | 66 | 55 | 47 | 41 | 59 | 50 | 43 | 38 | 40 | 35 | 31 | 31 | 28 | 25 | 23 | 21 | 19 | 15 |
| 6 | 61 | 49 | 41 | 36 | 54 | 44 | 38 | 33 | 36 | 31 | 27 | 28 | 25 | 22 | 21 | 18 | 17 | 14 |
| 7 | 56 | 44 | 36 | 31 | 50 | 40 | 33 | 29 | 33 | 28 | 24 | 26 | 22 | 19 | 19 | 17 | 15 | 12 |
| 8 | 52 | 40 | 33 | 27 | 47 | 36 | 30 | 25 | 30 | 25 | 21 | 23 | 20 | 17 | 17 | 15 | 13 | 11 |
| 9 | 48 | 36 | 29 | 24 | 43 | 33 | 27 | 23 | 27 | 22 | 19 | 22 | 18 | 16 | 16 | 14 | 12 | 10 |
| 10 | 45 | 33 | 26 | 22 | 41 | 30 | 24 | 20 | 25 | 20 | 17 | 20 | 16 | 14 | 15 | 13 | 11 | 9 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|------|------|------|------|
| 0° | 8676 | 8676 | 8676 | 8676 |
| 5° | 8505 | 7962 | 8505 | 7962 |
| 10° | 8353 | 7279 | 8353 | 7279 |
| 15° | 8152 | 6635 | 8115 | 6635 |
| 20° | 7860 | 6043 | 7823 | 6043 |
| 25° | 7524 | 5474 | 7486 | 5474 |
| 30° | 7099 | 4940 | 7047 | 4940 |
| 35° | 6615 | 4434 | 6574 | 4434 |
| 40° | 6099 | 3925 | 6042 | 3925 |
| 45° | 5653 | 3394 | 5608 | 3394 |
| 50° | 5260 | 2780 | 5213 | 2780 |
| 55° | 4848 | 2071 | 4813 | 2071 |
| 60° | 4404 | 1520 | 4386 | 1520 |
| 65° | 3915 | 1152 | 3915 | 1152 |
| 70° | 3339 | 851 | 3366 | 851 |
| 75° | 2917 | 619 | 3011 | 619 |
| 80° | 3692 | 404 | 2943 | 404 |
| 85° | 6949 | 178 | 3425 | 178 |



TEST NUMBER: P392618

CATALOG NUMBER: MWL-3-53-25-UNV-L940-EDD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.8 | 1.3 |
| 10°-20° | 265.9 | 3.7 |
| 20°-30° | 388.2 | 5.5 |
| 30°-40° | 438.8 | 6.2 |
| 40°-50° | 410.8 | 5.8 |
| 50°-60° | 324.5 | 4.6 |
| 60°-70° | 212.5 | 3.0 |
| 70°-80° | 111.8 | 1.6 |
| 80°-90° | 84.2 | 1.2 |
| 90°-100° | 154.8 | 2.2 |
| 100°-110° | 310.1 | 4.4 |
| 110°-120° | 533.2 | 7.5 |
| 120°-130° | 724.5 | 10.2 |
| 130°-140° | 826.6 | 11.6 |
| 140°-150° | 824.8 | 11.6 |
| 150°-160° | 718.3 | 10.1 |
| 160°-170° | 505.4 | 7.1 |
| 170°-180° | 188.2 | 2.6 |
| 0°-30° | 748.9 | 10.5 |
| 0°-40° | 1187.7 | 16.7 |
| 0°-60° | 1923.0 | 27.0 |
| 0°-90° | 2331.6 | 32.8 |
| 90°-120° | 998.2 | 14.0 |
| 90°-150° | 3374.2 | 47.4 |
| 90°-180° | 4786.0 | 67.2 |
| 0°-180° | 7117.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1008 | 1008 | 1008 | 1008 | 1008 | |
| 5° | 996 | 1002 | 996 | 1002 | 996 | 95 |
| 15° | 948 | 944 | 944 | 944 | 948 | 267 |
| 25° | 843 | 845 | 839 | 845 | 843 | 387 |
| 35° | 690 | 717 | 686 | 717 | 690 | 431 |
| 45° | 529 | 557 | 524 | 557 | 529 | 409 |
| 55° | 387 | 335 | 384 | 335 | 387 | 347 |
| 65° | 249 | 178 | 249 | 178 | 249 | 248 |
| 75° | 133 | 88 | 137 | 88 | 133 | 151 |
| 85° | 182 | 22 | 90 | 22 | 182 | 139 |
| 90° | 266 | 2 | 53 | 2 | 266 | 147 |
| 95° | 371 | 58 | 34 | 58 | 371 | 325 |
| 105° | 613 | 280 | 15 | 280 | 613 | 645 |
| 115° | 862 | 573 | 198 | 573 | 862 | 855 |
| 125° | 1079 | 898 | 490 | 898 | 1079 | 964 |
| 135° | 1254 | 1226 | 788 | 1226 | 1254 | 968 |
| 145° | 1377 | 1534 | 1061 | 1534 | 1377 | 868 |
| 155° | 1539 | 1774 | 1335 | 1774 | 1539 | 710 |
| 165° | 1682 | 1931 | 1627 | 1931 | 1682 | 477 |
| 175° | 1990 | 2010 | 1947 | 2010 | 1990 | 185 |
| 180° | 2009 | 2009 | 2009 | 2009 | 2009 | |



TEST NUMBER: P392618

CATALOG NUMBER: MWL-3-53-25-UNV-L940-EDD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1007.5 | 1007.5 | 1007.5 | 1007.5 | 1007.5 | 1007.5 | 1007.5 | 1007.5 | 1007.5 | 1007.5 | 1007.5 |
| 2.5° | 1001.4 | 1006.0 | 1005.3 | 1007.6 | 1008.5 | 1006.2 | 1005.3 | 1006.0 | 1002.8 | 1006.0 | 1005.3 |
| 5° | 995.9 | 1000.6 | 1000.8 | 1000.8 | 1001.7 | 1000.8 | 999.3 | 1000.6 | 995.9 | 1000.6 | 999.3 |
| 7.5° | 988.3 | 992.0 | 990.2 | 992.6 | 993.5 | 991.1 | 988.7 | 990.5 | 988.3 | 990.5 | 988.7 |
| 10° | 978.7 | 979.3 | 978.3 | 979.3 | 979.3 | 977.8 | 976.9 | 976.4 | 978.7 | 976.4 | 976.9 |
| 12.5° | 965.2 | 962.9 | 961.4 | 963.2 | 961.8 | 963.2 | 961.4 | 960.0 | 962.3 | 960.0 | 961.4 |
| 15° | 948.4 | 945.6 | 943.3 | 945.1 | 943.7 | 943.7 | 941.9 | 942.8 | 944.2 | 942.8 | 941.9 |
| 17.5° | 926.6 | 923.8 | 922.3 | 923.7 | 923.7 | 923.7 | 920.9 | 922.3 | 922.3 | 922.3 | 920.9 |
| 20° | 901.1 | 901.5 | 898.6 | 900.9 | 899.4 | 899.4 | 897.3 | 898.6 | 896.8 | 898.6 | 897.3 |
| 22.5° | 872.4 | 874.2 | 873.1 | 874.5 | 873.9 | 873.0 | 871.7 | 871.3 | 869.5 | 871.3 | 871.7 |
| 25° | 843.2 | 842.3 | 845.4 | 848.1 | 844.8 | 846.6 | 842.6 | 838.0 | 838.9 | 838.0 | 842.6 |
| 27.5° | 806.8 | 812.2 | 815.3 | 819.4 | 817.4 | 818.0 | 812.5 | 808.0 | 802.5 | 808.0 | 812.5 |
| 30° | 771.2 | 774.0 | 783.1 | 788.0 | 783.7 | 785.2 | 778.8 | 769.7 | 765.5 | 769.7 | 778.8 |
| 32.5° | 730.2 | 735.7 | 745.7 | 754.3 | 751.5 | 751.5 | 741.5 | 730.0 | 724.5 | 730.0 | 741.5 |
| 35° | 690.5 | 692.3 | 705.1 | 717.9 | 717.2 | 713.6 | 700.8 | 688.1 | 686.2 | 688.1 | 700.8 |
| 37.5° | 647.7 | 649.5 | 664.1 | 679.6 | 678.6 | 675.3 | 659.8 | 645.2 | 643.4 | 645.2 | 659.8 |
| 40° | 605.8 | 606.7 | 618.5 | 638.0 | 642.1 | 635.2 | 612.9 | 601.1 | 600.1 | 601.1 | 612.9 |
| 42.5° | 569.3 | 563.0 | 570.6 | 594.3 | 601.1 | 591.5 | 566.4 | 557.3 | 563.7 | 557.3 | 566.4 |
| 45° | 528.7 | 521.4 | 526.0 | 547.8 | 557.4 | 545.0 | 520.3 | 517.2 | 524.5 | 517.2 | 520.3 |
| 47.5° | 492.3 | 483.2 | 482.2 | 497.3 | 511.9 | 495.8 | 476.6 | 479.0 | 488.1 | 479.0 | 476.6 |
| 50° | 457.6 | 446.7 | 438.5 | 449.0 | 454.8 | 446.2 | 432.9 | 441.1 | 453.5 | 441.1 | 432.9 |
| 52.5° | 423.0 | 412.1 | 398.9 | 401.6 | 393.8 | 398.8 | 394.6 | 406.4 | 418.8 | 406.4 | 394.6 |
| 55° | 387.0 | 377.9 | 362.4 | 352.8 | 335.0 | 350.0 | 358.2 | 373.6 | 384.2 | 373.6 | 358.2 |
| 57.5° | 353.3 | 346.0 | 326.9 | 306.3 | 284.9 | 303.5 | 322.6 | 341.8 | 350.5 | 341.8 | 322.6 |
| 60° | 317.2 | 313.6 | 288.1 | 258.5 | 241.2 | 257.0 | 285.3 | 310.8 | 315.9 | 310.8 | 285.3 |
| 62.5° | 285.4 | 279.0 | 251.6 | 217.5 | 205.1 | 216.0 | 248.8 | 276.2 | 284.0 | 276.2 | 248.8 |
| 65° | 249.4 | 244.8 | 213.8 | 183.8 | 177.8 | 182.3 | 212.4 | 243.4 | 249.4 | 243.4 | 212.4 |
| 67.5° | 217.5 | 208.4 | 182.9 | 150.4 | 150.4 | 150.4 | 181.4 | 206.9 | 217.5 | 206.9 | 181.4 |
| 70° | 183.2 | 174.1 | 150.4 | 125.8 | 126.7 | 125.8 | 150.4 | 175.6 | 184.7 | 175.6 | 150.4 |
| 72.5° | 156.8 | 143.1 | 123.1 | 103.0 | 105.3 | 101.7 | 123.1 | 144.6 | 159.6 | 144.6 | 123.1 |
| 75° | 133.1 | 116.7 | 97.1 | 83.5 | 88.0 | 83.5 | 98.5 | 118.2 | 137.4 | 118.2 | 98.5 |
| 77.5° | 124.5 | 99.6 | 76.2 | 65.2 | 70.7 | 65.2 | 77.5 | 95.4 | 118.7 | 95.4 | 77.5 |
| 80° | 133.1 | 103.1 | 64.0 | 49.7 | 54.3 | 49.7 | 61.1 | 80.4 | 106.1 | 80.4 | 61.1 |
| 82.5° | 149.9 | 122.5 | 70.1 | 36.1 | 37.9 | 36.1 | 53.0 | 71.3 | 95.9 | 71.3 | 53.0 |
| 85° | 182.0 | 155.1 | 93.1 | 31.2 | 22.4 | 28.3 | 51.9 | 68.4 | 89.7 | 68.4 | 51.9 |
| 87.5° | 221.2 | 200.3 | 127.9 | 47.0 | 6.4 | 27.2 | 47.0 | 64.1 | 75.1 | 64.1 | 47.0 |
| 90° | 265.7 | 247.8 | 173.6 | 70.4 | 1.5 | 16.5 | 33.0 | 47.7 | 52.8 | 47.7 | 33.0 |
| 92.5° | 320.0 | 301.1 | 220.6 | 109.0 | 23.6 | 11.0 | 26.1 | 38.4 | 41.7 | 38.4 | 26.1 |
| 95° | 370.7 | 360.4 | 276.2 | 149.4 | 57.7 | 7.5 | 20.7 | 31.1 | 34.3 | 31.1 | 20.7 |
| 97.5° | 426.9 | 417.9 | 332.3 | 199.6 | 101.7 | 17.9 | 18.5 | 27.5 | 29.3 | 27.5 | 18.5 |
| 100° | 475.8 | 472.6 | 390.7 | 260.7 | 155.6 | 47.7 | 14.5 | 26.9 | 28.7 | 26.9 | 14.5 |
| 102.5° | 551.3 | 531.5 | 445.3 | 318.9 | 213.8 | 88.9 | 22.2 | 20.5 | 23.2 | 20.5 | 22.2 |
| 105° | 613.0 | 590.4 | 514.8 | 379.9 | 280.5 | 144.3 | 56.3 | 19.8 | 15.4 | 19.8 | 56.3 |
| 107.5° | 670.4 | 656.3 | 577.3 | 442.4 | 351.5 | 208.2 | 104.5 | 54.3 | 34.4 | 54.3 | 104.5 |
| 110° | 741.4 | 724.3 | 638.3 | 504.8 | 425.4 | 276.3 | 159.9 | 99.8 | 77.1 | 99.8 | 159.9 |



TEST NUMBER: P392618

CATALOG NUMBER: MWL-3-53-25-UNV-L940-EDD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 809.5 | 796.8 | 695.1 | 570.2 | 502.0 | 350.1 | 228.0 | 156.5 | 135.3 | 156.5 | 228.0 |
| 115° | 862.1 | 855.0 | 760.4 | 631.2 | 573.0 | 433.9 | 303.3 | 223.3 | 197.7 | 223.3 | 303.3 |
| 117.5° | 917.4 | 916.0 | 808.6 | 693.6 | 658.2 | 509.1 | 372.8 | 290.0 | 263.0 | 290.0 | 372.8 |
| 120° | 986.9 | 975.5 | 875.4 | 756.1 | 739.1 | 588.6 | 449.4 | 366.6 | 339.7 | 366.6 | 449.4 |
| 122.5° | 1035.2 | 1028.1 | 932.1 | 815.7 | 815.7 | 669.5 | 523.3 | 440.4 | 412.1 | 440.4 | 523.3 |
| 125° | 1079.2 | 1076.3 | 974.6 | 875.4 | 898.1 | 744.7 | 605.6 | 521.3 | 490.2 | 521.3 | 605.6 |
| 127.5° | 1118.9 | 1123.2 | 1030.0 | 940.6 | 981.7 | 821.4 | 686.5 | 593.8 | 561.1 | 593.8 | 686.5 |
| 130° | 1153.0 | 1167.2 | 1082.5 | 1000.2 | 1061.2 | 905.2 | 758.9 | 666.2 | 644.9 | 666.2 | 758.9 |
| 132.5° | 1219.7 | 1211.2 | 1137.3 | 1061.2 | 1146.3 | 981.7 | 836.5 | 738.5 | 714.4 | 738.5 | 836.5 |
| 135° | 1253.8 | 1256.6 | 1184.2 | 1113.7 | 1225.9 | 1058.3 | 908.9 | 812.3 | 788.3 | 812.3 | 908.9 |
| 137.5° | 1294.9 | 1286.4 | 1220.2 | 1177.6 | 1299.7 | 1132.2 | 978.9 | 890.4 | 852.2 | 890.4 | 978.9 |
| 140° | 1324.7 | 1323.3 | 1269.3 | 1235.3 | 1379.2 | 1205.5 | 1052.2 | 961.3 | 926.0 | 961.3 | 1052.2 |
| 142.5° | 1356.0 | 1364.5 | 1317.6 | 1296.9 | 1458.7 | 1281.3 | 1130.2 | 1030.9 | 996.8 | 1030.9 | 1130.2 |
| 145° | 1377.2 | 1395.7 | 1365.9 | 1375.9 | 1533.9 | 1367.3 | 1198.4 | 1097.6 | 1060.7 | 1097.6 | 1198.4 |
| 147.5° | 1412.8 | 1436.9 | 1401.4 | 1431.2 | 1599.3 | 1442.5 | 1266.5 | 1167.2 | 1134.5 | 1167.2 | 1266.5 |
| 150° | 1461.0 | 1472.3 | 1451.1 | 1507.9 | 1665.9 | 1526.3 | 1336.1 | 1233.9 | 1201.3 | 1233.9 | 1336.1 |
| 152.5° | 1499.3 | 1513.5 | 1488.5 | 1590.7 | 1718.4 | 1602.1 | 1411.8 | 1299.2 | 1260.9 | 1299.2 | 1411.8 |
| 155° | 1539.1 | 1544.8 | 1527.7 | 1671.6 | 1773.8 | 1677.3 | 1473.8 | 1371.6 | 1334.7 | 1371.6 | 1473.8 |
| 157.5° | 1576.0 | 1587.3 | 1567.5 | 1732.6 | 1822.1 | 1742.6 | 1543.3 | 1444.0 | 1411.3 | 1444.0 | 1543.3 |
| 160° | 1615.7 | 1615.7 | 1627.1 | 1804.5 | 1861.8 | 1800.2 | 1617.2 | 1523.5 | 1478.1 | 1523.5 | 1617.2 |
| 162.5° | 1620.0 | 1646.1 | 1708.0 | 1854.3 | 1901.1 | 1850.0 | 1696.7 | 1579.4 | 1540.5 | 1579.4 | 1696.7 |
| 165° | 1682.4 | 1705.7 | 1798.9 | 1898.3 | 1930.9 | 1894.0 | 1794.6 | 1673.1 | 1627.1 | 1673.1 | 1794.6 |
| 167.5° | 1747.8 | 1798.0 | 1872.7 | 1947.9 | 1959.2 | 1935.2 | 1869.9 | 1785.2 | 1743.5 | 1785.2 | 1869.9 |
| 170° | 1853.4 | 1897.4 | 1935.2 | 1966.3 | 1982.0 | 1967.8 | 1916.7 | 1874.6 | 1847.6 | 1874.6 | 1916.7 |
| 172.5° | 1937.1 | 1965.4 | 1980.5 | 2000.4 | 1990.5 | 1984.8 | 1959.2 | 1938.5 | 1924.3 | 1938.5 | 1959.2 |
| 175° | 1989.6 | 1995.3 | 2009.0 | 2001.9 | 2010.3 | 1994.8 | 1996.2 | 2005.2 | 1947.0 | 2005.2 | 1996.2 |
| 177.5° | 2008.1 | 2018.0 | 2011.8 | 1999.0 | 2000.4 | 1997.6 | 2003.2 | 2008.1 | 1999.5 | 2008.1 | 2003.2 |
| 180° | 2009.0 | 2009.0 | 2009.0 | 2009.0 | 2009.0 | 2009.0 | 2009.0 | 2009.0 | 2009.0 | 2009.0 | 2009.0 |



TEST NUMBER: P392618

CATALOG NUMBER: MWL-3-53-25-UNV-L940-EDD

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1007.5 | 1007.5 | 1007.5 | 1007.5 | 1007.5 | 1007.5 |
| 2.5° | 1006.2 | 1008.5 | 1007.6 | 1005.3 | 1006.0 | 1001.4 |
| 5° | 1000.8 | 1001.7 | 1000.8 | 1000.8 | 1000.6 | 995.9 |
| 7.5° | 991.1 | 993.5 | 992.6 | 990.2 | 992.0 | 988.3 |
| 10° | 977.8 | 979.3 | 979.3 | 978.3 | 979.3 | 978.7 |
| 12.5° | 963.2 | 961.8 | 963.2 | 961.4 | 962.9 | 965.2 |
| 15° | 943.7 | 943.7 | 945.1 | 943.3 | 945.6 | 948.4 |
| 17.5° | 923.7 | 923.7 | 923.7 | 922.3 | 923.8 | 926.6 |
| 20° | 899.4 | 899.4 | 900.9 | 898.6 | 901.5 | 901.1 |
| 22.5° | 873.0 | 873.9 | 874.5 | 873.1 | 874.2 | 872.4 |
| 25° | 846.6 | 844.8 | 848.1 | 845.4 | 842.3 | 843.2 |
| 27.5° | 818.0 | 817.4 | 819.4 | 815.3 | 812.2 | 806.8 |
| 30° | 785.2 | 783.7 | 788.0 | 783.1 | 774.0 | 771.2 |
| 32.5° | 751.5 | 751.5 | 754.3 | 745.7 | 735.7 | 730.2 |
| 35° | 713.6 | 717.2 | 717.9 | 705.1 | 692.3 | 690.5 |
| 37.5° | 675.3 | 678.6 | 679.6 | 664.1 | 649.5 | 647.7 |
| 40° | 635.2 | 642.1 | 638.0 | 618.5 | 606.7 | 605.8 |
| 42.5° | 591.5 | 601.1 | 594.3 | 570.6 | 563.0 | 569.3 |
| 45° | 545.0 | 557.4 | 547.8 | 526.0 | 521.4 | 528.7 |
| 47.5° | 495.8 | 511.9 | 497.3 | 482.2 | 483.2 | 492.3 |
| 50° | 446.2 | 454.8 | 449.0 | 438.5 | 446.7 | 457.6 |
| 52.5° | 398.8 | 393.8 | 401.6 | 398.9 | 412.1 | 423.0 |
| 55° | 350.0 | 335.0 | 352.8 | 362.4 | 377.9 | 387.0 |
| 57.5° | 303.5 | 284.9 | 306.3 | 326.9 | 346.0 | 353.3 |
| 60° | 257.0 | 241.2 | 258.5 | 288.1 | 313.6 | 317.2 |
| 62.5° | 216.0 | 205.1 | 217.5 | 251.6 | 279.0 | 285.4 |
| 65° | 182.3 | 177.8 | 183.8 | 213.8 | 244.8 | 249.4 |
| 67.5° | 150.4 | 150.4 | 150.4 | 182.9 | 208.4 | 217.5 |
| 70° | 125.8 | 126.7 | 125.8 | 150.4 | 174.1 | 183.2 |
| 72.5° | 101.7 | 105.3 | 103.0 | 123.1 | 143.1 | 156.8 |
| 75° | 83.5 | 88.0 | 83.5 | 97.1 | 116.7 | 133.1 |
| 77.5° | 65.2 | 70.7 | 65.2 | 76.2 | 99.6 | 124.5 |
| 80° | 49.7 | 54.3 | 49.7 | 64.0 | 103.1 | 133.1 |
| 82.5° | 36.1 | 37.9 | 36.1 | 70.1 | 122.5 | 149.9 |
| 85° | 28.3 | 22.4 | 31.2 | 93.1 | 155.1 | 182.0 |
| 87.5° | 27.2 | 6.4 | 47.0 | 127.9 | 200.3 | 221.2 |
| 90° | 16.5 | 1.5 | 70.4 | 173.6 | 247.8 | 265.7 |
| 92.5° | 11.0 | 23.6 | 109.0 | 220.6 | 301.1 | 320.0 |
| 95° | 7.5 | 57.7 | 149.4 | 276.2 | 360.4 | 370.7 |
| 97.5° | 17.9 | 101.7 | 199.6 | 332.3 | 417.9 | 426.9 |
| 100° | 47.7 | 155.6 | 260.7 | 390.7 | 472.6 | 475.8 |
| 102.5° | 88.9 | 213.8 | 318.9 | 445.3 | 531.5 | 551.3 |
| 105° | 144.3 | 280.5 | 379.9 | 514.8 | 590.4 | 613.0 |
| 107.5° | 208.2 | 351.5 | 442.4 | 577.3 | 656.3 | 670.4 |
| 110° | 276.3 | 425.4 | 504.8 | 638.3 | 724.3 | 741.4 |



TEST NUMBER: P392618

CATALOG NUMBER: MWL-3-53-25-UNV-L940-EDD

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 350.1 | 502.0 | 570.2 | 695.1 | 796.8 | 809.5 |
| 115° | 433.9 | 573.0 | 631.2 | 760.4 | 855.0 | 862.1 |
| 117.5° | 509.1 | 658.2 | 693.6 | 808.6 | 916.0 | 917.4 |
| 120° | 588.6 | 739.1 | 756.1 | 875.4 | 975.5 | 986.9 |
| 122.5° | 669.5 | 815.7 | 815.7 | 932.1 | 1028.1 | 1035.2 |
| 125° | 744.7 | 898.1 | 875.4 | 974.6 | 1076.3 | 1079.2 |
| 127.5° | 821.4 | 981.7 | 940.6 | 1030.0 | 1123.2 | 1118.9 |
| 130° | 905.2 | 1061.2 | 1000.2 | 1082.5 | 1167.2 | 1153.0 |
| 132.5° | 981.7 | 1146.3 | 1061.2 | 1137.3 | 1211.2 | 1219.7 |
| 135° | 1058.3 | 1225.9 | 1113.7 | 1184.2 | 1256.6 | 1253.8 |
| 137.5° | 1132.2 | 1299.7 | 1177.6 | 1220.2 | 1286.4 | 1294.9 |
| 140° | 1205.5 | 1379.2 | 1235.3 | 1269.3 | 1323.3 | 1324.7 |
| 142.5° | 1281.3 | 1458.7 | 1296.9 | 1317.6 | 1364.5 | 1356.0 |
| 145° | 1367.3 | 1533.9 | 1375.9 | 1365.9 | 1395.7 | 1377.2 |
| 147.5° | 1442.5 | 1599.3 | 1431.2 | 1401.4 | 1436.9 | 1412.8 |
| 150° | 1526.3 | 1665.9 | 1507.9 | 1451.1 | 1472.3 | 1461.0 |
| 152.5° | 1602.1 | 1718.4 | 1590.7 | 1488.5 | 1513.5 | 1499.3 |
| 155° | 1677.3 | 1773.8 | 1671.6 | 1527.7 | 1544.8 | 1539.1 |
| 157.5° | 1742.6 | 1822.1 | 1732.6 | 1567.5 | 1587.3 | 1576.0 |
| 160° | 1800.2 | 1861.8 | 1804.5 | 1627.1 | 1615.7 | 1615.7 |
| 162.5° | 1850.0 | 1901.1 | 1854.3 | 1708.0 | 1646.1 | 1620.0 |
| 165° | 1894.0 | 1930.9 | 1898.3 | 1798.9 | 1705.7 | 1682.4 |
| 167.5° | 1935.2 | 1959.2 | 1947.9 | 1872.7 | 1798.0 | 1747.8 |
| 170° | 1967.8 | 1982.0 | 1966.3 | 1935.2 | 1897.4 | 1853.4 |
| 172.5° | 1984.8 | 1990.5 | 2000.4 | 1980.5 | 1965.4 | 1937.1 |
| 175° | 1994.8 | 2010.3 | 2001.9 | 2009.0 | 1995.3 | 1989.6 |
| 177.5° | 1997.6 | 2000.4 | 1999.0 | 2011.8 | 2018.0 | 2008.1 |
| 180° | 2009.0 | 2009.0 | 2009.0 | 2009.0 | 2009.0 | 2009.0 |

(END OF REPORT)