

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: P392605

Luminaire Tested: **MWL-3-37-57-UNV-L935-EDD**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P392605
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-3-37-57-UNV-L935-EDD
Description: MWL 3FT MEDICAL LED FIXTURE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

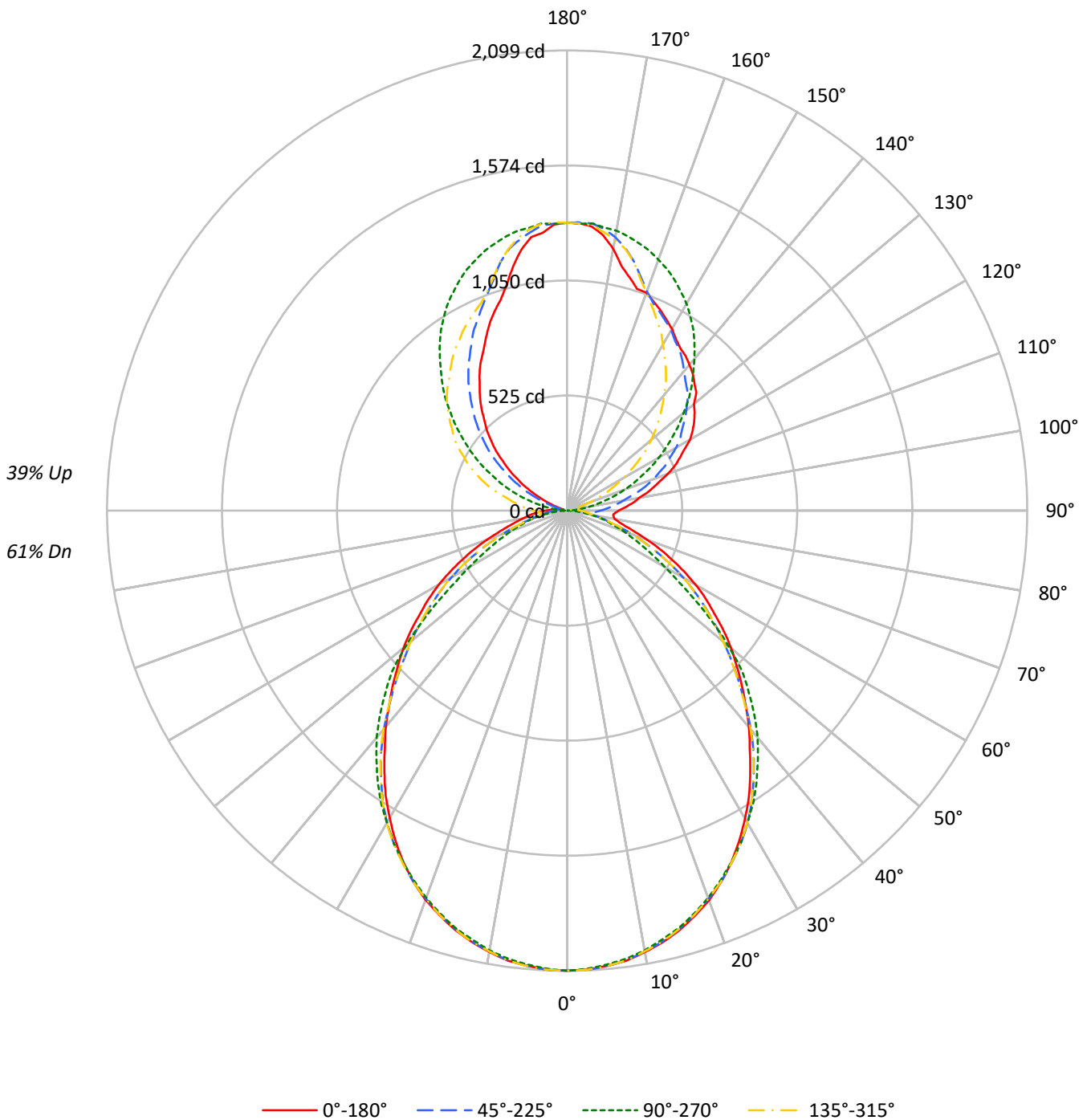
Lumens per Lamp: N/A
Luminaire Lumens: 8014.6 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.17 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 3' x H: 0.42')
CIE Type: Semi-Direct

Input Watts (W): 106.252
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: P392605
CATALOG NUMBER: MWL-3-37-57-UNV-L935-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P392605

CATALOG NUMBER: MWL-3-37-57-UNV-L935-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 | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 89 | 89 | 89 | 77 | 77 | 77 | 66 | 66 | 66 | 61 |
| 1 | 100 | 96 | 92 | 89 | 94 | 90 | 87 | 84 | 79 | 76 | 74 | 68 | 66 | 65 | 59 | 57 | 56 | 51 |
| 2 | 92 | 84 | 78 | 73 | 86 | 79 | 74 | 69 | 69 | 65 | 62 | 60 | 57 | 55 | 52 | 50 | 48 | 44 |
| 3 | 84 | 75 | 67 | 61 | 78 | 70 | 64 | 58 | 62 | 57 | 52 | 54 | 50 | 47 | 46 | 44 | 41 | 38 |
| 4 | 77 | 66 | 58 | 52 | 72 | 62 | 55 | 50 | 55 | 50 | 45 | 48 | 44 | 40 | 42 | 39 | 36 | 33 |
| 5 | 71 | 59 | 51 | 45 | 66 | 56 | 49 | 43 | 49 | 44 | 39 | 43 | 39 | 35 | 38 | 34 | 32 | 29 |
| 6 | 66 | 53 | 45 | 40 | 61 | 50 | 43 | 38 | 45 | 39 | 34 | 39 | 35 | 31 | 35 | 31 | 28 | 25 |
| 7 | 61 | 48 | 40 | 35 | 57 | 46 | 39 | 33 | 41 | 35 | 31 | 36 | 31 | 28 | 32 | 28 | 25 | 23 |
| 8 | 56 | 44 | 36 | 31 | 53 | 42 | 35 | 30 | 37 | 31 | 27 | 33 | 28 | 25 | 29 | 25 | 23 | 20 |
| 9 | 53 | 40 | 33 | 28 | 49 | 38 | 31 | 27 | 34 | 29 | 25 | 31 | 26 | 22 | 27 | 23 | 20 | 18 |
| 10 | 49 | 37 | 30 | 25 | 46 | 35 | 29 | 24 | 32 | 26 | 22 | 28 | 24 | 20 | 25 | 21 | 19 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|-------|
| 0° | 18073 | 18073 | 18073 | 18073 |
| 5° | 17800 | 16522 | 17800 | 16522 |
| 10° | 17451 | 15141 | 17451 | 15141 |
| 15° | 17034 | 13856 | 17011 | 13856 |
| 20° | 16504 | 12629 | 16480 | 12629 |
| 25° | 15808 | 11466 | 15784 | 11466 |
| 30° | 14933 | 10364 | 14899 | 10364 |
| 35° | 13948 | 9315 | 13922 | 9315 |
| 40° | 12993 | 8261 | 12956 | 8261 |
| 45° | 12050 | 7134 | 12019 | 7134 |
| 50° | 11226 | 5870 | 11195 | 5870 |
| 55° | 10259 | 4407 | 10235 | 4407 |
| 60° | 9389 | 3236 | 9376 | 3236 |
| 65° | 8233 | 2436 | 8233 | 2436 |
| 70° | 7067 | 1825 | 7083 | 1825 |
| 75° | 6026 | 1312 | 6087 | 1312 |
| 80° | 6128 | 839 | 5639 | 839 |
| 85° | 8049 | 344 | 5754 | 344 |



TEST NUMBER: P392605

CATALOG NUMBER: MWL-3-37-57-UNV-L935-EDD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 197.6 | 2.5 |
| 10°-20° | 556.4 | 6.9 |
| 20°-30° | 815.5 | 10.2 |
| 30°-40° | 924.8 | 11.5 |
| 40°-50° | 869.6 | 10.8 |
| 50°-60° | 690.3 | 8.6 |
| 60°-70° | 449.0 | 5.6 |
| 70°-80° | 229.3 | 2.9 |
| 80°-90° | 120.4 | 1.5 |
| 90°-100° | 125.2 | 1.6 |
| 100°-110° | 206.5 | 2.6 |
| 110°-120° | 350.0 | 4.4 |
| 120°-130° | 475.0 | 5.9 |
| 130°-140° | 541.5 | 6.8 |
| 140°-150° | 539.9 | 6.7 |
| 150°-160° | 469.9 | 5.9 |
| 160°-170° | 330.5 | 4.1 |
| 170°-180° | 123.1 | 1.5 |
| 0°-30° | 1569.4 | 19.6 |
| 0°-40° | 2494.3 | 31.1 |
| 0°-60° | 4054.1 | 50.6 |
| 0°-90° | 4852.8 | 60.5 |
| 90°-120° | 681.8 | 8.5 |
| 90°-150° | 2238.2 | 27.9 |
| 90°-180° | 3162.0 | 39.5 |
| 0°-180° | 8014.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 2099 | 2099 | 2099 | 2099 | 2099 | |
| 5° | 2084 | 2079 | 2084 | 2079 | 2084 | 198 |
| 15° | 1982 | 1971 | 1979 | 1971 | 1982 | 558 |
| 25° | 1772 | 1770 | 1769 | 1770 | 1772 | 814 |
| 35° | 1456 | 1507 | 1453 | 1507 | 1456 | 911 |
| 45° | 1127 | 1172 | 1124 | 1172 | 1127 | 871 |
| 55° | 819 | 713 | 817 | 713 | 819 | 737 |
| 65° | 524 | 376 | 524 | 376 | 524 | 522 |
| 75° | 275 | 187 | 278 | 187 | 275 | 303 |
| 85° | 211 | 43 | 151 | 43 | 211 | 176 |
| 90° | 235 | 2 | 96 | 2 | 235 | 130 |
| 95° | 282 | 38 | 63 | 38 | 282 | 242 |
| 105° | 408 | 184 | 17 | 184 | 408 | 431 |
| 115° | 566 | 375 | 132 | 375 | 566 | 561 |
| 125° | 707 | 588 | 323 | 588 | 707 | 632 |
| 135° | 821 | 803 | 517 | 803 | 821 | 634 |
| 145° | 902 | 1004 | 695 | 1004 | 902 | 568 |
| 155° | 1007 | 1160 | 874 | 1160 | 1007 | 465 |
| 165° | 1101 | 1263 | 1065 | 1263 | 1101 | 312 |
| 175° | 1300 | 1315 | 1272 | 1315 | 1300 | 121 |
| 180° | 1313 | 1313 | 1313 | 1313 | 1313 | |



TEST NUMBER: P392605

CATALOG NUMBER: MWL-3-37-57-UNV-L935-EDD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2098.8 | 2098.8 | 2098.8 | 2098.8 | 2098.8 | 2098.8 | 2098.8 | 2098.8 | 2098.8 | 2098.8 | 2098.8 |
| 2.5° | 2095.3 | 2096.2 | 2096.3 | 2093.9 | 2092.2 | 2093.0 | 2096.3 | 2096.2 | 2096.2 | 2096.2 | 2096.3 |
| 5° | 2084.2 | 2086.9 | 2086.1 | 2081.9 | 2078.6 | 2081.9 | 2085.3 | 2086.9 | 2084.2 | 2086.9 | 2085.3 |
| 7.5° | 2070.7 | 2070.0 | 2070.0 | 2064.1 | 2061.6 | 2063.2 | 2069.1 | 2069.1 | 2070.7 | 2069.1 | 2069.1 |
| 10° | 2044.6 | 2045.4 | 2042.0 | 2039.5 | 2036.9 | 2038.6 | 2041.1 | 2043.6 | 2044.6 | 2043.6 | 2041.1 |
| 12.5° | 2016.6 | 2014.9 | 2013.1 | 2008.9 | 2003.7 | 2008.9 | 2013.1 | 2013.1 | 2014.9 | 2013.1 | 2013.1 |
| 15° | 1981.9 | 1975.9 | 1976.6 | 1974.1 | 1970.7 | 1973.2 | 1975.8 | 1974.1 | 1979.2 | 1974.1 | 1975.8 |
| 17.5° | 1937.8 | 1935.1 | 1933.4 | 1931.7 | 1926.6 | 1931.7 | 1932.5 | 1934.3 | 1935.1 | 1934.3 | 1932.5 |
| 20° | 1892.1 | 1888.5 | 1885.1 | 1885.0 | 1879.8 | 1884.1 | 1884.1 | 1886.8 | 1889.3 | 1886.8 | 1884.1 |
| 22.5° | 1834.3 | 1834.3 | 1833.3 | 1831.6 | 1826.4 | 1830.6 | 1832.5 | 1832.5 | 1832.5 | 1832.5 | 1832.5 |
| 25° | 1771.5 | 1772.4 | 1774.8 | 1775.6 | 1769.5 | 1774.6 | 1773.1 | 1769.6 | 1768.8 | 1769.6 | 1773.1 |
| 27.5° | 1699.4 | 1705.3 | 1713.7 | 1715.4 | 1711.9 | 1714.5 | 1712.0 | 1702.7 | 1696.7 | 1702.7 | 1712.0 |
| 30° | 1622.3 | 1627.3 | 1646.0 | 1654.4 | 1644.1 | 1652.6 | 1643.3 | 1624.6 | 1618.6 | 1624.6 | 1643.3 |
| 32.5° | 1544.2 | 1545.9 | 1568.8 | 1581.4 | 1579.7 | 1579.7 | 1566.1 | 1542.3 | 1540.5 | 1542.3 | 1566.1 |
| 35° | 1455.9 | 1457.6 | 1483.1 | 1506.8 | 1506.6 | 1504.1 | 1480.4 | 1454.9 | 1453.2 | 1454.9 | 1480.4 |
| 37.5° | 1368.6 | 1370.3 | 1397.4 | 1423.7 | 1428.7 | 1420.9 | 1394.7 | 1367.5 | 1365.9 | 1367.5 | 1394.7 |
| 40° | 1290.6 | 1281.2 | 1304.1 | 1335.5 | 1351.6 | 1333.6 | 1300.5 | 1277.5 | 1286.9 | 1277.5 | 1300.5 |
| 42.5° | 1204.0 | 1192.2 | 1203.1 | 1243.9 | 1263.3 | 1242.1 | 1200.4 | 1188.5 | 1200.4 | 1188.5 | 1200.4 |
| 45° | 1126.9 | 1106.5 | 1109.9 | 1146.4 | 1171.7 | 1144.5 | 1106.2 | 1103.6 | 1124.0 | 1103.6 | 1106.2 |
| 47.5° | 1048.9 | 1027.6 | 1017.4 | 1049.5 | 1081.8 | 1048.7 | 1013.7 | 1024.8 | 1046.0 | 1024.8 | 1013.7 |
| 50° | 976.7 | 951.3 | 930.9 | 944.4 | 960.4 | 942.5 | 927.2 | 947.6 | 974.0 | 947.6 | 927.2 |
| 52.5° | 899.6 | 878.3 | 847.7 | 849.4 | 837.4 | 847.5 | 845.0 | 874.6 | 896.7 | 874.6 | 845.0 |
| 55° | 818.9 | 806.1 | 767.1 | 746.7 | 712.7 | 744.9 | 764.4 | 803.4 | 817.0 | 803.4 | 764.4 |
| 57.5° | 750.2 | 735.8 | 689.1 | 644.9 | 601.6 | 643.0 | 686.4 | 732.9 | 748.3 | 732.9 | 686.4 |
| 60° | 676.3 | 664.4 | 611.9 | 543.9 | 513.3 | 543.0 | 610.0 | 662.5 | 675.4 | 662.5 | 610.0 |
| 62.5° | 600.0 | 591.5 | 533.8 | 456.6 | 439.5 | 455.6 | 532.0 | 589.6 | 599.0 | 589.6 | 532.0 |
| 65° | 524.4 | 513.3 | 453.2 | 382.8 | 375.9 | 381.8 | 452.2 | 512.5 | 524.4 | 512.5 | 452.2 |
| 67.5° | 455.7 | 438.8 | 382.8 | 319.1 | 318.2 | 319.1 | 381.8 | 437.8 | 455.7 | 437.8 | 381.8 |
| 70° | 387.8 | 364.1 | 313.1 | 265.6 | 271.6 | 265.6 | 313.1 | 364.9 | 388.7 | 364.9 | 313.1 |
| 72.5° | 325.8 | 297.9 | 252.9 | 216.4 | 224.0 | 215.6 | 252.9 | 298.8 | 327.7 | 298.8 | 252.9 |
| 75° | 275.0 | 236.8 | 199.4 | 173.1 | 186.6 | 173.1 | 200.4 | 237.7 | 277.8 | 237.7 | 200.4 |
| 77.5° | 241.6 | 198.1 | 154.5 | 133.2 | 149.4 | 133.2 | 155.4 | 195.4 | 238.0 | 195.4 | 155.4 |
| 80° | 220.9 | 176.2 | 125.0 | 101.0 | 112.9 | 101.0 | 123.1 | 161.4 | 203.3 | 161.4 | 123.1 |
| 82.5° | 213.5 | 169.6 | 113.2 | 73.0 | 78.1 | 73.0 | 102.1 | 136.3 | 178.3 | 136.3 | 102.1 |
| 85° | 210.8 | 177.8 | 117.4 | 57.1 | 43.3 | 55.3 | 90.6 | 121.3 | 150.7 | 121.3 | 90.6 |
| 87.5° | 220.5 | 195.1 | 130.8 | 59.1 | 12.7 | 46.3 | 77.9 | 106.2 | 125.0 | 106.2 | 77.9 |
| 90° | 235.3 | 216.7 | 152.2 | 66.8 | 1.8 | 31.6 | 60.6 | 86.2 | 96.4 | 86.2 | 60.6 |
| 92.5° | 259.1 | 243.8 | 176.3 | 82.7 | 15.7 | 18.8 | 49.4 | 72.4 | 77.6 | 72.4 | 49.4 |
| 95° | 282.5 | 273.5 | 204.2 | 100.6 | 37.9 | 7.9 | 37.5 | 58.7 | 63.0 | 58.7 | 37.5 |
| 97.5° | 311.3 | 303.4 | 229.8 | 131.4 | 66.6 | 12.8 | 25.1 | 48.7 | 52.1 | 48.7 | 25.1 |
| 100° | 332.2 | 325.3 | 260.4 | 171.1 | 102.6 | 32.3 | 14.9 | 34.5 | 40.5 | 34.5 | 14.9 |
| 102.5° | 372.3 | 357.0 | 292.4 | 209.2 | 140.7 | 59.1 | 16.5 | 23.5 | 27.7 | 23.5 | 16.5 |
| 105° | 407.5 | 390.2 | 337.8 | 249.0 | 184.1 | 95.3 | 38.7 | 17.9 | 17.4 | 17.9 | 38.7 |
| 107.5° | 442.1 | 431.2 | 378.6 | 289.8 | 230.5 | 136.9 | 70.2 | 38.5 | 27.3 | 38.5 | 70.2 |
| 110° | 487.6 | 474.8 | 418.4 | 330.5 | 278.6 | 181.4 | 106.3 | 67.2 | 54.2 | 67.2 | 106.3 |



TEST NUMBER: P392605

CATALOG NUMBER: MWL-3-37-57-UNV-L935-EDD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 531.3 | 522.1 | 455.4 | 373.1 | 328.7 | 229.5 | 150.7 | 104.3 | 91.3 | 104.3 | 150.7 |
| 115° | 565.5 | 560.0 | 498.8 | 413.8 | 374.9 | 285.1 | 200.7 | 147.9 | 132.0 | 147.9 | 200.7 |
| 117.5° | 601.7 | 599.9 | 530.4 | 454.5 | 431.4 | 334.1 | 246.0 | 191.4 | 174.7 | 191.4 | 246.0 |
| 120° | 647.1 | 638.7 | 573.9 | 495.3 | 484.1 | 386.0 | 296.1 | 241.4 | 224.7 | 241.4 | 296.1 |
| 122.5° | 678.5 | 673.0 | 611.0 | 534.1 | 534.1 | 438.8 | 344.3 | 289.6 | 271.9 | 289.6 | 344.3 |
| 125° | 707.1 | 704.6 | 638.7 | 573.1 | 587.9 | 487.9 | 398.0 | 342.4 | 322.9 | 342.4 | 398.0 |
| 127.5° | 733.1 | 736.0 | 674.9 | 615.7 | 642.5 | 537.9 | 450.7 | 390.5 | 369.2 | 390.5 | 450.7 |
| 130° | 755.4 | 764.6 | 709.1 | 655.5 | 694.4 | 593.3 | 498.0 | 437.7 | 423.9 | 437.7 | 498.0 |
| 132.5° | 798.9 | 793.4 | 744.3 | 695.2 | 750.9 | 643.4 | 548.0 | 484.9 | 469.2 | 484.9 | 548.0 |
| 135° | 821.1 | 822.9 | 774.9 | 729.5 | 802.7 | 693.4 | 595.2 | 533.1 | 517.4 | 533.1 | 595.2 |
| 137.5° | 848.0 | 842.4 | 799.0 | 771.3 | 850.8 | 741.5 | 641.6 | 584.0 | 559.0 | 584.0 | 641.6 |
| 140° | 867.5 | 866.5 | 830.5 | 808.3 | 902.7 | 788.8 | 688.8 | 630.3 | 607.2 | 630.3 | 688.8 |
| 142.5° | 887.8 | 893.4 | 862.8 | 849.0 | 954.6 | 838.8 | 740.6 | 675.7 | 653.5 | 675.7 | 740.6 |
| 145° | 901.7 | 913.8 | 894.3 | 900.0 | 1003.7 | 894.4 | 785.1 | 719.2 | 695.2 | 719.2 | 785.1 |
| 147.5° | 924.9 | 940.6 | 916.6 | 936.1 | 1046.3 | 943.5 | 828.6 | 764.6 | 743.3 | 764.6 | 828.6 |
| 150° | 956.4 | 963.8 | 949.0 | 986.9 | 1089.8 | 999.0 | 874.0 | 808.2 | 786.9 | 808.2 | 874.0 |
| 152.5° | 981.4 | 990.6 | 974.0 | 1040.7 | 1124.0 | 1048.2 | 924.1 | 850.7 | 825.8 | 850.7 | 924.1 |
| 155° | 1007.3 | 1011.0 | 999.1 | 1093.6 | 1160.2 | 1097.3 | 963.9 | 898.0 | 873.9 | 898.0 | 963.9 |
| 157.5° | 1031.3 | 1038.8 | 1025.0 | 1133.3 | 1191.8 | 1139.8 | 1009.2 | 945.2 | 924.0 | 945.2 | 1009.2 |
| 160° | 1057.3 | 1056.4 | 1063.9 | 1179.7 | 1217.6 | 1176.9 | 1057.4 | 996.2 | 967.5 | 996.2 | 1057.4 |
| 162.5° | 1060.1 | 1076.8 | 1116.7 | 1212.9 | 1243.4 | 1210.1 | 1109.3 | 1033.3 | 1008.2 | 1033.3 | 1109.3 |
| 165° | 1100.8 | 1115.7 | 1176.8 | 1241.6 | 1262.9 | 1238.9 | 1174.0 | 1094.4 | 1064.7 | 1094.4 | 1174.0 |
| 167.5° | 1142.7 | 1176.0 | 1225.0 | 1274.1 | 1281.5 | 1265.7 | 1223.1 | 1167.7 | 1139.8 | 1167.7 | 1223.1 |
| 170° | 1211.3 | 1240.8 | 1265.7 | 1286.2 | 1296.3 | 1287.0 | 1253.6 | 1226.0 | 1207.5 | 1226.0 | 1253.6 |
| 172.5° | 1265.9 | 1285.3 | 1295.4 | 1308.3 | 1301.9 | 1298.1 | 1281.5 | 1267.6 | 1257.5 | 1267.6 | 1281.5 |
| 175° | 1300.1 | 1304.7 | 1313.9 | 1309.3 | 1314.8 | 1304.6 | 1305.6 | 1311.2 | 1272.3 | 1311.2 | 1305.6 |
| 177.5° | 1312.1 | 1319.5 | 1315.7 | 1307.4 | 1308.3 | 1306.5 | 1310.1 | 1313.0 | 1306.7 | 1313.0 | 1310.1 |
| 180° | 1313.0 | 1313.0 | 1313.0 | 1313.0 | 1313.0 | 1313.0 | 1313.0 | 1313.0 | 1313.0 | 1313.0 | 1313.0 |



TEST NUMBER: P392605

CATALOG NUMBER: MWL-3-37-57-UNV-L935-EDD

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2098.8 | 2098.8 | 2098.8 | 2098.8 | 2098.8 | 2098.8 |
| 2.5° | 2093.0 | 2092.2 | 2093.9 | 2096.3 | 2096.2 | 2095.3 |
| 5° | 2081.9 | 2078.6 | 2081.9 | 2086.1 | 2086.9 | 2084.2 |
| 7.5° | 2063.2 | 2061.6 | 2064.1 | 2070.0 | 2070.0 | 2070.7 |
| 10° | 2038.6 | 2036.9 | 2039.5 | 2042.0 | 2045.4 | 2044.6 |
| 12.5° | 2008.9 | 2003.7 | 2008.9 | 2013.1 | 2014.9 | 2016.6 |
| 15° | 1973.2 | 1970.7 | 1974.1 | 1976.6 | 1975.9 | 1981.9 |
| 17.5° | 1931.7 | 1926.6 | 1931.7 | 1933.4 | 1935.1 | 1937.8 |
| 20° | 1884.1 | 1879.8 | 1885.0 | 1885.1 | 1888.5 | 1892.1 |
| 22.5° | 1830.6 | 1826.4 | 1831.6 | 1833.3 | 1834.3 | 1834.3 |
| 25° | 1774.6 | 1769.5 | 1775.6 | 1774.8 | 1772.4 | 1771.5 |
| 27.5° | 1714.5 | 1711.9 | 1715.4 | 1713.7 | 1705.3 | 1699.4 |
| 30° | 1652.6 | 1644.1 | 1654.4 | 1646.0 | 1627.3 | 1622.3 |
| 32.5° | 1579.7 | 1579.7 | 1581.4 | 1568.8 | 1545.9 | 1544.2 |
| 35° | 1504.1 | 1506.6 | 1506.8 | 1483.1 | 1457.6 | 1455.9 |
| 37.5° | 1420.9 | 1428.7 | 1423.7 | 1397.4 | 1370.3 | 1368.6 |
| 40° | 1333.6 | 1351.6 | 1335.5 | 1304.1 | 1281.2 | 1290.6 |
| 42.5° | 1242.1 | 1263.3 | 1243.9 | 1203.1 | 1192.2 | 1204.0 |
| 45° | 1144.5 | 1171.7 | 1146.4 | 1109.9 | 1106.5 | 1126.9 |
| 47.5° | 1048.7 | 1081.8 | 1049.5 | 1017.4 | 1027.6 | 1048.9 |
| 50° | 942.5 | 960.4 | 944.4 | 930.9 | 951.3 | 976.7 |
| 52.5° | 847.5 | 837.4 | 849.4 | 847.7 | 878.3 | 899.6 |
| 55° | 744.9 | 712.7 | 746.7 | 767.1 | 806.1 | 818.9 |
| 57.5° | 643.0 | 601.6 | 644.9 | 689.1 | 735.8 | 750.2 |
| 60° | 543.0 | 513.3 | 543.9 | 611.9 | 664.4 | 676.3 |
| 62.5° | 455.6 | 439.5 | 456.6 | 533.8 | 591.5 | 600.0 |
| 65° | 381.8 | 375.9 | 382.8 | 453.2 | 513.3 | 524.4 |
| 67.5° | 319.1 | 318.2 | 319.1 | 382.8 | 438.8 | 455.7 |
| 70° | 265.6 | 271.6 | 265.6 | 313.1 | 364.1 | 387.8 |
| 72.5° | 215.6 | 224.0 | 216.4 | 252.9 | 297.9 | 325.8 |
| 75° | 173.1 | 186.6 | 173.1 | 199.4 | 236.8 | 275.0 |
| 77.5° | 133.2 | 149.4 | 133.2 | 154.5 | 198.1 | 241.6 |
| 80° | 101.0 | 112.9 | 101.0 | 125.0 | 176.2 | 220.9 |
| 82.5° | 73.0 | 78.1 | 73.0 | 113.2 | 169.6 | 213.5 |
| 85° | 55.3 | 43.3 | 57.1 | 117.4 | 177.8 | 210.8 |
| 87.5° | 46.3 | 12.7 | 59.1 | 130.8 | 195.1 | 220.5 |
| 90° | 31.6 | 1.8 | 66.8 | 152.2 | 216.7 | 235.3 |
| 92.5° | 18.8 | 15.7 | 82.7 | 176.3 | 243.8 | 259.1 |
| 95° | 7.9 | 37.9 | 100.6 | 204.2 | 273.5 | 282.5 |
| 97.5° | 12.8 | 66.6 | 131.4 | 229.8 | 303.4 | 311.3 |
| 100° | 32.3 | 102.6 | 171.1 | 260.4 | 325.3 | 332.2 |
| 102.5° | 59.1 | 140.7 | 209.2 | 292.4 | 357.0 | 372.3 |
| 105° | 95.3 | 184.1 | 249.0 | 337.8 | 390.2 | 407.5 |
| 107.5° | 136.9 | 230.5 | 289.8 | 378.6 | 431.2 | 442.1 |
| 110° | 181.4 | 278.6 | 330.5 | 418.4 | 474.8 | 487.6 |



TEST NUMBER: P392605

CATALOG NUMBER: MWL-3-37-57-UNV-L935-EDD

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 229.5 | 328.7 | 373.1 | 455.4 | 522.1 | 531.3 |
| 115° | 285.1 | 374.9 | 413.8 | 498.8 | 560.0 | 565.5 |
| 117.5° | 334.1 | 431.4 | 454.5 | 530.4 | 599.9 | 601.7 |
| 120° | 386.0 | 484.1 | 495.3 | 573.9 | 638.7 | 647.1 |
| 122.5° | 438.8 | 534.1 | 534.1 | 611.0 | 673.0 | 678.5 |
| 125° | 487.9 | 587.9 | 573.1 | 638.7 | 704.6 | 707.1 |
| 127.5° | 537.9 | 642.5 | 615.7 | 674.9 | 736.0 | 733.1 |
| 130° | 593.3 | 694.4 | 655.5 | 709.1 | 764.6 | 755.4 |
| 132.5° | 643.4 | 750.9 | 695.2 | 744.3 | 793.4 | 798.9 |
| 135° | 693.4 | 802.7 | 729.5 | 774.9 | 822.9 | 821.1 |
| 137.5° | 741.5 | 850.8 | 771.3 | 799.0 | 842.4 | 848.0 |
| 140° | 788.8 | 902.7 | 808.3 | 830.5 | 866.5 | 867.5 |
| 142.5° | 838.8 | 954.6 | 849.0 | 862.8 | 893.4 | 887.8 |
| 145° | 894.4 | 1003.7 | 900.0 | 894.3 | 913.8 | 901.7 |
| 147.5° | 943.5 | 1046.3 | 936.1 | 916.6 | 940.6 | 924.9 |
| 150° | 999.0 | 1089.8 | 986.9 | 949.0 | 963.8 | 956.4 |
| 152.5° | 1048.2 | 1124.0 | 1040.7 | 974.0 | 990.6 | 981.4 |
| 155° | 1097.3 | 1160.2 | 1093.6 | 999.1 | 1011.0 | 1007.3 |
| 157.5° | 1139.8 | 1191.8 | 1133.3 | 1025.0 | 1038.8 | 1031.3 |
| 160° | 1176.9 | 1217.6 | 1179.7 | 1063.9 | 1056.4 | 1057.3 |
| 162.5° | 1210.1 | 1243.4 | 1212.9 | 1116.7 | 1076.8 | 1060.1 |
| 165° | 1238.9 | 1262.9 | 1241.6 | 1176.8 | 1115.7 | 1100.8 |
| 167.5° | 1265.7 | 1281.5 | 1274.1 | 1225.0 | 1176.0 | 1142.7 |
| 170° | 1287.0 | 1296.3 | 1286.2 | 1265.7 | 1240.8 | 1211.3 |
| 172.5° | 1298.1 | 1301.9 | 1308.3 | 1295.4 | 1285.3 | 1265.9 |
| 175° | 1304.6 | 1314.8 | 1309.3 | 1313.9 | 1304.7 | 1300.1 |
| 177.5° | 1306.5 | 1308.3 | 1307.4 | 1315.7 | 1319.5 | 1312.1 |
| 180° | 1313.0 | 1313.0 | 1313.0 | 1313.0 | 1313.0 | 1313.0 |

(END OF REPORT)