

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: P392672

Luminaire Tested: **MWL-4-42-25-UNV-L840-EDD**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P392672
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-4-42-25-UNV-L840-EDD
Description: MWL 4FT MEDICAL LED FIXTURE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6746.2 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.18 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.42')
CIE Type: Semi-Indirect

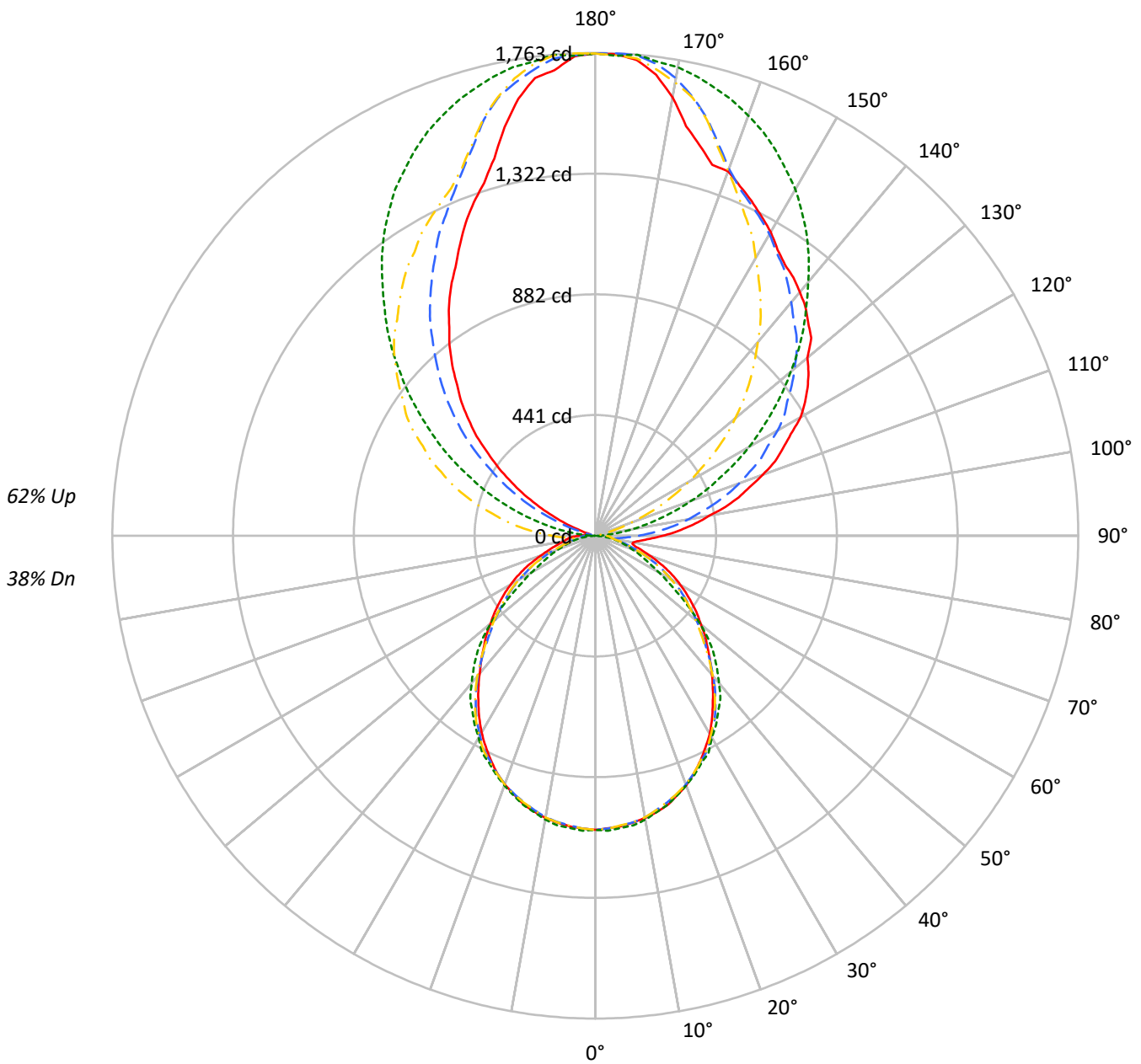
Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P392672

CATALOG NUMBER: MWL-4-42-25-UNV-L840-EDD

Luminous Intensity Polar Plot



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



TEST NUMBER: P392672

CATALOG NUMBER: MWL-4-42-25-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 | 104 | 104 | 104 | 104 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | | 60 | 60 | 60 | | 45 | 45 | 45 | 38 |
| 1 | 95 | 91 | 87 | 83 | 86 | 82 | 79 | 76 | 67 | 65 | 63 | | 53 | 51 | 50 | | 40 | 39 | 38 | 32 |
| 2 | 87 | 79 | 73 | 68 | 78 | 72 | 67 | 63 | 59 | 55 | 52 | | 47 | 44 | 42 | | 35 | 34 | 32 | 27 |
| 3 | 79 | 70 | 63 | 57 | 72 | 64 | 58 | 53 | 52 | 48 | 44 | | 41 | 38 | 36 | | 31 | 29 | 28 | 23 |
| 4 | 72 | 62 | 54 | 49 | 66 | 57 | 50 | 45 | 46 | 42 | 38 | | 37 | 33 | 31 | | 28 | 26 | 24 | 20 |
| 5 | 67 | 55 | 47 | 42 | 60 | 51 | 44 | 39 | 42 | 36 | 33 | | 33 | 30 | 27 | | 25 | 23 | 21 | 17 |
| 6 | 61 | 50 | 42 | 36 | 55 | 45 | 39 | 34 | 37 | 32 | 28 | | 30 | 26 | 23 | | 23 | 21 | 19 | 15 |
| 7 | 57 | 45 | 37 | 32 | 51 | 41 | 34 | 29 | 34 | 29 | 25 | | 27 | 24 | 21 | | 21 | 19 | 17 | 14 |
| 8 | 53 | 41 | 33 | 28 | 48 | 37 | 31 | 26 | 31 | 26 | 22 | | 25 | 21 | 19 | | 19 | 17 | 15 | 12 |
| 9 | 49 | 37 | 30 | 25 | 44 | 34 | 28 | 23 | 28 | 23 | 20 | | 23 | 19 | 17 | | 18 | 15 | 13 | 11 |
| 10 | 46 | 34 | 27 | 22 | 41 | 31 | 25 | 21 | 26 | 21 | 18 | | 21 | 18 | 15 | | 17 | 14 | 12 | 10 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|------|------|------|------|
| 0° | 6934 | 6934 | 6934 | 6934 |
| 5° | 6842 | 6384 | 6842 | 6384 |
| 10° | 6739 | 5869 | 6739 | 5869 |
| 15° | 6623 | 5364 | 6599 | 5364 |
| 20° | 6424 | 4888 | 6400 | 4888 |
| 25° | 6163 | 4452 | 6138 | 4452 |
| 30° | 5873 | 4023 | 5839 | 4023 |
| 35° | 5494 | 3626 | 5467 | 3626 |
| 40° | 5130 | 3219 | 5091 | 3219 |
| 45° | 4794 | 2796 | 4762 | 2796 |
| 50° | 4491 | 2288 | 4457 | 2288 |
| 55° | 4226 | 1719 | 4202 | 1719 |
| 60° | 3917 | 1275 | 3903 | 1275 |
| 65° | 3556 | 945 | 3556 | 945 |
| 70° | 3090 | 708 | 3108 | 708 |
| 75° | 2722 | 518 | 2789 | 518 |
| 80° | 3287 | 336 | 2733 | 336 |
| 85° | 5987 | 150 | 3251 | 150 |



TEST NUMBER: P392672

CATALOG NUMBER: MWL-4-42-25-UNV-L840-EDD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 101.2 | 1.5 |
| 10°-20° | 285.5 | 4.2 |
| 20°-30° | 419.5 | 6.2 |
| 30°-40° | 476.9 | 7.1 |
| 40°-50° | 448.9 | 6.7 |
| 50°-60° | 360.1 | 5.3 |
| 60°-70° | 239.4 | 3.5 |
| 70°-80° | 126.2 | 1.9 |
| 80°-90° | 85.8 | 1.3 |
| 90°-100° | 140.5 | 2.1 |
| 100°-110° | 273.2 | 4.1 |
| 110°-120° | 467.7 | 6.9 |
| 120°-130° | 635.6 | 9.4 |
| 130°-140° | 724.9 | 10.7 |
| 140°-150° | 723.1 | 10.7 |
| 150°-160° | 629.6 | 9.3 |
| 160°-170° | 442.9 | 6.6 |
| 170°-180° | 165.0 | 2.4 |
| 0°-30° | 806.2 | 12.0 |
| 0°-40° | 1283.1 | 19.0 |
| 0°-60° | 2092.1 | 31.0 |
| 0°-90° | 2543.6 | 37.7 |
| 90°-120° | 881.4 | 13.1 |
| 90°-150° | 2965.0 | 44.0 |
| 90°-180° | 4203.0 | 62.3 |
| 0°-180° | 6746.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1074 | 1074 | 1074 | 1074 | 1074 | |
| 5° | 1065 | 1071 | 1065 | 1071 | 1065 | 101 |
| 15° | 1018 | 1017 | 1014 | 1017 | 1018 | 286 |
| 25° | 907 | 916 | 903 | 916 | 907 | 417 |
| 35° | 748 | 782 | 744 | 782 | 748 | 468 |
| 45° | 580 | 612 | 576 | 612 | 580 | 449 |
| 55° | 431 | 371 | 429 | 371 | 431 | 386 |
| 65° | 285 | 194 | 285 | 194 | 285 | 281 |
| 75° | 152 | 98 | 155 | 98 | 152 | 170 |
| 85° | 177 | 25 | 96 | 25 | 177 | 138 |
| 90° | 245 | 1 | 59 | 1 | 245 | 135 |
| 95° | 330 | 51 | 36 | 51 | 330 | 290 |
| 105° | 541 | 246 | 18 | 246 | 541 | 569 |
| 115° | 756 | 502 | 174 | 502 | 756 | 750 |
| 125° | 946 | 788 | 430 | 788 | 946 | 845 |
| 135° | 1099 | 1075 | 691 | 1075 | 1099 | 848 |
| 145° | 1207 | 1345 | 930 | 1345 | 1207 | 761 |
| 155° | 1349 | 1555 | 1170 | 1555 | 1349 | 622 |
| 165° | 1474 | 1692 | 1426 | 1692 | 1474 | 418 |
| 175° | 1743 | 1763 | 1706 | 1763 | 1743 | 163 |
| 180° | 1760 | 1760 | 1760 | 1760 | 1760 | |



TEST NUMBER: P392672

CATALOG NUMBER: MWL-4-42-25-UNV-L840-EDD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1073.7 | 1073.7 | 1073.7 | 1073.7 | 1073.7 | 1073.7 | 1073.7 | 1073.7 | 1073.7 | 1073.7 | 1073.7 |
| 2.5° | 1069.0 | 1069.5 | 1069.9 | 1082.2 | 1078.2 | 1080.9 | 1069.9 | 1069.5 | 1070.2 | 1069.5 | 1069.9 |
| 5° | 1065.0 | 1065.5 | 1062.9 | 1071.9 | 1070.9 | 1071.9 | 1061.7 | 1065.5 | 1065.0 | 1065.5 | 1061.7 |
| 7.5° | 1056.2 | 1056.7 | 1055.7 | 1062.9 | 1065.9 | 1061.7 | 1054.5 | 1055.5 | 1056.2 | 1055.5 | 1054.5 |
| 10° | 1046.5 | 1046.7 | 1044.7 | 1050.7 | 1052.7 | 1049.5 | 1043.5 | 1044.2 | 1046.5 | 1044.2 | 1043.5 |
| 12.5° | 1033.9 | 1035.7 | 1026.5 | 1032.5 | 1033.2 | 1032.5 | 1026.5 | 1033.2 | 1031.5 | 1033.2 | 1026.5 |
| 15° | 1018.2 | 1011.7 | 1008.5 | 1017.5 | 1017.2 | 1016.2 | 1007.2 | 1009.2 | 1014.5 | 1009.2 | 1007.2 |
| 17.5° | 993.2 | 993.7 | 989.5 | 994.2 | 994.2 | 994.2 | 988.2 | 992.5 | 989.5 | 992.5 | 988.2 |
| 20° | 970.2 | 968.9 | 966.5 | 971.2 | 970.0 | 970.0 | 965.2 | 966.5 | 966.5 | 966.5 | 965.2 |
| 22.5° | 939.9 | 942.9 | 939.5 | 943.2 | 945.0 | 942.0 | 938.2 | 940.5 | 937.5 | 940.5 | 938.2 |
| 25° | 906.9 | 907.9 | 910.7 | 916.2 | 916.0 | 915.0 | 908.2 | 904.2 | 903.2 | 904.2 | 908.2 |
| 27.5° | 870.9 | 874.9 | 883.7 | 891.5 | 894.0 | 890.2 | 881.2 | 871.2 | 867.2 | 871.2 | 881.2 |
| 30° | 834.9 | 834.9 | 845.9 | 853.7 | 851.0 | 851.2 | 842.2 | 831.2 | 830.0 | 831.2 | 842.2 |
| 32.5° | 792.9 | 792.9 | 807.9 | 821.7 | 819.2 | 819.2 | 804.2 | 788.0 | 788.0 | 788.0 | 804.2 |
| 35° | 747.7 | 750.7 | 764.7 | 784.7 | 782.0 | 781.0 | 761.0 | 747.0 | 744.0 | 747.0 | 761.0 |
| 37.5° | 704.7 | 702.7 | 718.7 | 741.7 | 750.2 | 738.0 | 715.0 | 699.0 | 701.0 | 699.0 | 715.0 |
| 40° | 661.7 | 657.7 | 669.7 | 695.5 | 702.2 | 693.0 | 664.7 | 652.7 | 656.7 | 652.7 | 664.7 |
| 42.5° | 620.7 | 613.7 | 619.5 | 646.5 | 657.2 | 644.0 | 615.7 | 608.7 | 615.7 | 608.7 | 615.7 |
| 45° | 579.5 | 571.5 | 569.5 | 598.5 | 612.2 | 596.0 | 564.5 | 567.7 | 575.7 | 567.7 | 564.5 |
| 47.5° | 543.5 | 532.5 | 524.5 | 542.2 | 560.2 | 541.0 | 519.5 | 528.7 | 539.7 | 528.7 | 519.5 |
| 50° | 502.5 | 493.5 | 482.5 | 490.2 | 499.0 | 487.7 | 477.5 | 488.5 | 498.7 | 488.5 | 477.5 |
| 52.5° | 468.5 | 457.5 | 441.2 | 442.2 | 434.0 | 439.7 | 437.5 | 452.5 | 464.7 | 452.5 | 437.5 |
| 55° | 431.2 | 421.2 | 402.2 | 390.0 | 370.7 | 387.5 | 398.5 | 417.5 | 428.7 | 417.5 | 398.5 |
| 57.5° | 395.2 | 388.2 | 363.2 | 339.0 | 314.7 | 336.5 | 359.5 | 384.5 | 392.7 | 384.5 | 359.5 |
| 60° | 358.0 | 351.0 | 323.0 | 284.7 | 269.7 | 283.5 | 320.5 | 348.5 | 356.7 | 348.5 | 320.5 |
| 62.5° | 322.0 | 317.0 | 284.0 | 240.7 | 226.5 | 239.5 | 281.5 | 314.5 | 320.7 | 314.5 | 281.5 |
| 65° | 284.7 | 276.7 | 245.7 | 201.7 | 194.5 | 200.5 | 244.5 | 275.5 | 284.7 | 275.5 | 244.5 |
| 67.5° | 246.7 | 238.7 | 207.7 | 169.5 | 168.5 | 169.5 | 206.5 | 237.5 | 246.7 | 237.5 | 206.5 |
| 70° | 210.5 | 198.5 | 170.5 | 140.5 | 140.5 | 140.5 | 170.5 | 199.7 | 211.7 | 199.7 | 170.5 |
| 72.5° | 178.5 | 163.5 | 139.5 | 116.5 | 119.2 | 115.2 | 139.5 | 164.7 | 181.0 | 164.7 | 139.5 |
| 75° | 151.5 | 132.5 | 110.2 | 93.2 | 98.2 | 93.2 | 111.5 | 133.7 | 155.2 | 133.7 | 111.5 |
| 77.5° | 138.4 | 113.5 | 86.2 | 73.2 | 79.2 | 73.2 | 87.5 | 109.7 | 133.5 | 109.7 | 87.5 |
| 80° | 140.6 | 111.9 | 71.0 | 55.2 | 60.2 | 55.2 | 68.5 | 92.0 | 116.9 | 92.0 | 68.5 |
| 82.5° | 154.4 | 124.2 | 73.9 | 39.2 | 42.2 | 39.2 | 59.0 | 79.5 | 107.2 | 79.5 | 59.0 |
| 85° | 177.0 | 149.5 | 92.3 | 35.0 | 25.2 | 32.5 | 56.2 | 73.7 | 96.1 | 73.7 | 56.2 |
| 87.5° | 207.8 | 186.6 | 120.3 | 46.6 | 8.0 | 29.2 | 49.4 | 67.2 | 79.7 | 67.2 | 49.4 |
| 90° | 245.3 | 225.8 | 159.1 | 66.7 | 1.2 | 19.5 | 36.0 | 50.5 | 58.7 | 50.5 | 36.0 |
| 92.5° | 290.0 | 272.1 | 199.1 | 98.3 | 20.9 | 12.5 | 28.7 | 42.0 | 46.2 | 42.0 | 28.7 |
| 95° | 330.5 | 322.0 | 246.6 | 133.3 | 50.7 | 9.0 | 22.7 | 33.5 | 35.7 | 33.5 | 22.7 |
| 97.5° | 378.2 | 373.0 | 295.3 | 175.1 | 89.3 | 15.9 | 20.5 | 31.0 | 30.0 | 31.0 | 20.5 |
| 100° | 421.7 | 419.5 | 345.3 | 228.6 | 136.6 | 42.0 | 15.7 | 28.9 | 29.9 | 28.9 | 15.7 |
| 102.5° | 486.6 | 469.7 | 391.3 | 279.6 | 187.6 | 78.1 | 20.7 | 21.9 | 23.9 | 21.9 | 20.7 |
| 105° | 541.3 | 521.9 | 451.2 | 333.1 | 246.0 | 126.6 | 49.5 | 21.9 | 17.7 | 21.9 | 49.5 |
| 107.5° | 589.8 | 575.4 | 506.0 | 387.8 | 308.2 | 182.6 | 91.8 | 48.0 | 32.6 | 48.0 | 91.8 |
| 110° | 650.0 | 635.1 | 559.4 | 442.5 | 372.9 | 242.3 | 140.3 | 87.8 | 67.9 | 87.8 | 140.3 |



TEST NUMBER: P392672

CATALOG NUMBER: MWL-4-42-25-UNV-L840-EDD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 709.7 | 698.5 | 609.2 | 499.7 | 440.0 | 307.0 | 200.0 | 137.6 | 118.9 | 137.6 | 200.0 |
| 115° | 755.7 | 749.5 | 667.4 | 553.2 | 502.2 | 380.3 | 266.9 | 196.0 | 173.6 | 196.0 | 266.9 |
| 117.5° | 804.2 | 803.0 | 709.7 | 608.9 | 576.8 | 447.3 | 327.9 | 254.5 | 230.8 | 254.5 | 327.9 |
| 120° | 865.2 | 855.2 | 768.1 | 663.7 | 648.7 | 516.9 | 395.0 | 321.6 | 298.0 | 321.6 | 395.0 |
| 122.5° | 907.4 | 901.2 | 817.9 | 715.9 | 715.9 | 587.8 | 459.7 | 386.3 | 361.4 | 386.3 | 459.7 |
| 125° | 946.0 | 943.5 | 855.2 | 768.1 | 788.0 | 653.7 | 531.8 | 457.2 | 429.8 | 457.2 | 531.8 |
| 127.5° | 980.8 | 984.5 | 903.7 | 825.4 | 861.4 | 720.9 | 602.7 | 520.6 | 492.0 | 520.6 | 602.7 |
| 130° | 1010.7 | 1023.1 | 949.7 | 877.6 | 931.1 | 794.3 | 666.2 | 584.1 | 565.4 | 584.1 | 666.2 |
| 132.5° | 1069.1 | 1061.7 | 997.0 | 931.1 | 1005.7 | 861.4 | 733.3 | 647.5 | 626.4 | 647.5 | 733.3 |
| 135° | 1099.0 | 1101.5 | 1038.0 | 977.1 | 1075.3 | 928.6 | 796.7 | 712.2 | 691.0 | 712.2 | 796.7 |
| 137.5° | 1135.0 | 1127.6 | 1070.4 | 1033.1 | 1140.0 | 993.3 | 858.9 | 780.6 | 747.0 | 780.6 | 858.9 |
| 140° | 1161.2 | 1159.9 | 1112.7 | 1082.8 | 1209.6 | 1056.7 | 922.4 | 842.8 | 811.7 | 842.8 | 922.4 |
| 142.5° | 1188.4 | 1196.9 | 1154.9 | 1137.5 | 1279.2 | 1123.8 | 990.8 | 904.7 | 873.9 | 904.7 | 990.8 |
| 145° | 1207.1 | 1223.2 | 1197.1 | 1205.8 | 1345.1 | 1198.4 | 1050.5 | 962.2 | 929.8 | 962.2 | 1050.5 |
| 147.5° | 1238.2 | 1259.3 | 1228.2 | 1254.3 | 1402.3 | 1264.3 | 1110.2 | 1023.1 | 994.5 | 1023.1 | 1110.2 |
| 150° | 1280.5 | 1290.4 | 1271.8 | 1321.5 | 1460.8 | 1337.7 | 1171.1 | 1081.6 | 1053.0 | 1081.6 | 1171.1 |
| 152.5° | 1314.0 | 1326.5 | 1305.3 | 1394.9 | 1506.8 | 1404.8 | 1238.2 | 1138.8 | 1105.2 | 1138.8 | 1238.2 |
| 155° | 1348.9 | 1353.8 | 1338.9 | 1465.8 | 1555.3 | 1470.7 | 1291.7 | 1202.1 | 1169.9 | 1202.1 | 1291.7 |
| 157.5° | 1381.2 | 1391.2 | 1373.7 | 1519.3 | 1597.6 | 1528.0 | 1352.6 | 1265.5 | 1236.9 | 1265.5 | 1352.6 |
| 160° | 1416.0 | 1416.0 | 1426.0 | 1581.4 | 1632.4 | 1577.7 | 1417.3 | 1335.2 | 1295.4 | 1335.2 | 1417.3 |
| 162.5° | 1419.8 | 1443.4 | 1496.9 | 1625.0 | 1666.0 | 1621.2 | 1486.9 | 1384.9 | 1350.1 | 1384.9 | 1486.9 |
| 165° | 1474.5 | 1495.6 | 1576.5 | 1663.5 | 1692.1 | 1659.8 | 1572.7 | 1467.0 | 1426.0 | 1467.0 | 1572.7 |
| 167.5° | 1531.7 | 1576.5 | 1641.1 | 1707.1 | 1717.0 | 1695.9 | 1638.7 | 1565.3 | 1528.0 | 1565.3 | 1638.7 |
| 170° | 1625.0 | 1663.5 | 1695.9 | 1723.2 | 1736.9 | 1724.5 | 1679.7 | 1643.6 | 1620.0 | 1643.6 | 1679.7 |
| 172.5° | 1697.4 | 1723.2 | 1735.7 | 1753.1 | 1745.4 | 1739.4 | 1717.0 | 1699.6 | 1686.2 | 1699.6 | 1717.0 |
| 175° | 1743.4 | 1749.3 | 1760.5 | 1754.3 | 1762.8 | 1748.1 | 1749.3 | 1758.1 | 1706.1 | 1758.1 | 1749.3 |
| 177.5° | 1759.5 | 1769.2 | 1763.0 | 1751.8 | 1754.1 | 1750.6 | 1755.6 | 1760.5 | 1752.1 | 1760.5 | 1755.6 |
| 180° | 1760.5 | 1760.5 | 1760.5 | 1760.5 | 1760.5 | 1760.5 | 1760.5 | 1760.5 | 1760.5 | 1760.5 | 1760.5 |



TEST NUMBER: P392672

CATALOG NUMBER: MWL-4-42-25-UNV-L840-EDD

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1073.7 | 1073.7 | 1073.7 | 1073.7 | 1073.7 | 1073.7 |
| 2.5° | 1080.9 | 1078.2 | 1082.2 | 1069.9 | 1069.5 | 1069.0 |
| 5° | 1071.9 | 1070.9 | 1071.9 | 1062.9 | 1065.5 | 1065.0 |
| 7.5° | 1061.7 | 1065.9 | 1062.9 | 1055.7 | 1056.7 | 1056.2 |
| 10° | 1049.5 | 1052.7 | 1050.7 | 1044.7 | 1046.7 | 1046.5 |
| 12.5° | 1032.5 | 1033.2 | 1032.5 | 1026.5 | 1035.7 | 1033.9 |
| 15° | 1016.2 | 1017.2 | 1017.5 | 1008.5 | 1011.7 | 1018.2 |
| 17.5° | 994.2 | 994.2 | 994.2 | 989.5 | 993.7 | 993.2 |
| 20° | 970.0 | 970.0 | 971.2 | 966.5 | 968.9 | 970.2 |
| 22.5° | 942.0 | 945.0 | 943.2 | 939.5 | 942.9 | 939.9 |
| 25° | 915.0 | 916.0 | 916.2 | 910.7 | 907.9 | 906.9 |
| 27.5° | 890.2 | 894.0 | 891.5 | 883.7 | 874.9 | 870.9 |
| 30° | 851.2 | 851.0 | 853.7 | 845.9 | 834.9 | 834.9 |
| 32.5° | 819.2 | 819.2 | 821.7 | 807.9 | 792.9 | 792.9 |
| 35° | 781.0 | 782.0 | 784.7 | 764.7 | 750.7 | 747.7 |
| 37.5° | 738.0 | 750.2 | 741.7 | 718.7 | 702.7 | 704.7 |
| 40° | 693.0 | 702.2 | 695.5 | 669.7 | 657.7 | 661.7 |
| 42.5° | 644.0 | 657.2 | 646.5 | 619.5 | 613.7 | 620.7 |
| 45° | 596.0 | 612.2 | 598.5 | 569.5 | 571.5 | 579.5 |
| 47.5° | 541.0 | 560.2 | 542.2 | 524.5 | 532.5 | 543.5 |
| 50° | 487.7 | 499.0 | 490.2 | 482.5 | 493.5 | 502.5 |
| 52.5° | 439.7 | 434.0 | 442.2 | 441.2 | 457.5 | 468.5 |
| 55° | 387.5 | 370.7 | 390.0 | 402.2 | 421.2 | 431.2 |
| 57.5° | 336.5 | 314.7 | 339.0 | 363.2 | 388.2 | 395.2 |
| 60° | 283.5 | 269.7 | 284.7 | 323.0 | 351.0 | 358.0 |
| 62.5° | 239.5 | 226.5 | 240.7 | 284.0 | 317.0 | 322.0 |
| 65° | 200.5 | 194.5 | 201.7 | 245.7 | 276.7 | 284.7 |
| 67.5° | 169.5 | 168.5 | 169.5 | 207.7 | 238.7 | 246.7 |
| 70° | 140.5 | 140.5 | 140.5 | 170.5 | 198.5 | 210.5 |
| 72.5° | 115.2 | 119.2 | 116.5 | 139.5 | 163.5 | 178.5 |
| 75° | 93.2 | 98.2 | 93.2 | 110.2 | 132.5 | 151.5 |
| 77.5° | 73.2 | 79.2 | 73.2 | 86.2 | 113.5 | 138.4 |
| 80° | 55.2 | 60.2 | 55.2 | 71.0 | 111.9 | 140.6 |
| 82.5° | 39.2 | 42.2 | 39.2 | 73.9 | 124.2 | 154.4 |
| 85° | 32.5 | 25.2 | 35.0 | 92.3 | 149.5 | 177.0 |
| 87.5° | 29.2 | 8.0 | 46.6 | 120.3 | 186.6 | 207.8 |
| 90° | 19.5 | 1.2 | 66.7 | 159.1 | 225.8 | 245.3 |
| 92.5° | 12.5 | 20.9 | 98.3 | 199.1 | 272.1 | 290.0 |
| 95° | 9.0 | 50.7 | 133.3 | 246.6 | 322.0 | 330.5 |
| 97.5° | 15.9 | 89.3 | 175.1 | 295.3 | 373.0 | 378.2 |
| 100° | 42.0 | 136.6 | 228.6 | 345.3 | 419.5 | 421.7 |
| 102.5° | 78.1 | 187.6 | 279.6 | 391.3 | 469.7 | 486.6 |
| 105° | 126.6 | 246.0 | 333.1 | 451.2 | 521.9 | 541.3 |
| 107.5° | 182.6 | 308.2 | 387.8 | 506.0 | 575.4 | 589.8 |
| 110° | 242.3 | 372.9 | 442.5 | 559.4 | 635.1 | 650.0 |



TEST NUMBER: P392672

CATALOG NUMBER: MWL-4-42-25-UNV-L840-EDD

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 307.0 | 440.0 | 499.7 | 609.2 | 698.5 | 709.7 |
| 115° | 380.3 | 502.2 | 553.2 | 667.4 | 749.5 | 755.7 |
| 117.5° | 447.3 | 576.8 | 608.9 | 709.7 | 803.0 | 804.2 |
| 120° | 516.9 | 648.7 | 663.7 | 768.1 | 855.2 | 865.2 |
| 122.5° | 587.8 | 715.9 | 715.9 | 817.9 | 901.2 | 907.4 |
| 125° | 653.7 | 788.0 | 768.1 | 855.2 | 943.5 | 946.0 |
| 127.5° | 720.9 | 861.4 | 825.4 | 903.7 | 984.5 | 980.8 |
| 130° | 794.3 | 931.1 | 877.6 | 949.7 | 1023.1 | 1010.7 |
| 132.5° | 861.4 | 1005.7 | 931.1 | 997.0 | 1061.7 | 1069.1 |
| 135° | 928.6 | 1075.3 | 977.1 | 1038.0 | 1101.5 | 1099.0 |
| 137.5° | 993.3 | 1140.0 | 1033.1 | 1070.4 | 1127.6 | 1135.0 |
| 140° | 1056.7 | 1209.6 | 1082.8 | 1112.7 | 1159.9 | 1161.2 |
| 142.5° | 1123.8 | 1279.2 | 1137.5 | 1154.9 | 1196.9 | 1188.4 |
| 145° | 1198.4 | 1345.1 | 1205.8 | 1197.1 | 1223.2 | 1207.1 |
| 147.5° | 1264.3 | 1402.3 | 1254.3 | 1228.2 | 1259.3 | 1238.2 |
| 150° | 1337.7 | 1460.8 | 1321.5 | 1271.8 | 1290.4 | 1280.5 |
| 152.5° | 1404.8 | 1506.8 | 1394.9 | 1305.3 | 1326.5 | 1314.0 |
| 155° | 1470.7 | 1555.3 | 1465.8 | 1338.9 | 1353.8 | 1348.9 |
| 157.5° | 1528.0 | 1597.6 | 1519.3 | 1373.7 | 1391.2 | 1381.2 |
| 160° | 1577.7 | 1632.4 | 1581.4 | 1426.0 | 1416.0 | 1416.0 |
| 162.5° | 1621.2 | 1666.0 | 1625.0 | 1496.9 | 1443.4 | 1419.8 |
| 165° | 1659.8 | 1692.1 | 1663.5 | 1576.5 | 1495.6 | 1474.5 |
| 167.5° | 1695.9 | 1717.0 | 1707.1 | 1641.1 | 1576.5 | 1531.7 |
| 170° | 1724.5 | 1736.9 | 1723.2 | 1695.9 | 1663.5 | 1625.0 |
| 172.5° | 1739.4 | 1745.4 | 1753.1 | 1735.7 | 1723.2 | 1697.4 |
| 175° | 1748.1 | 1762.8 | 1754.3 | 1760.5 | 1749.3 | 1743.4 |
| 177.5° | 1750.6 | 1754.1 | 1751.8 | 1763.0 | 1769.2 | 1759.5 |
| 180° | 1760.5 | 1760.5 | 1760.5 | 1760.5 | 1760.5 | 1760.5 |

(END OF REPORT)