

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P275381

Luminaire Tested: **ML4D09_930 - TIR50AWW25 - TL41RMW - TL42SMW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P275381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-901-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML4D09_930 - TIR50AWW25 - TL41RMW - TL42SMW
Description: ML4 900LM 2700K, 90CRI, 25° ASYMM WW, WITH ROUND PINHOLE MATTE WHITE FLANGE
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 770.4 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 0.6 / 0.88
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

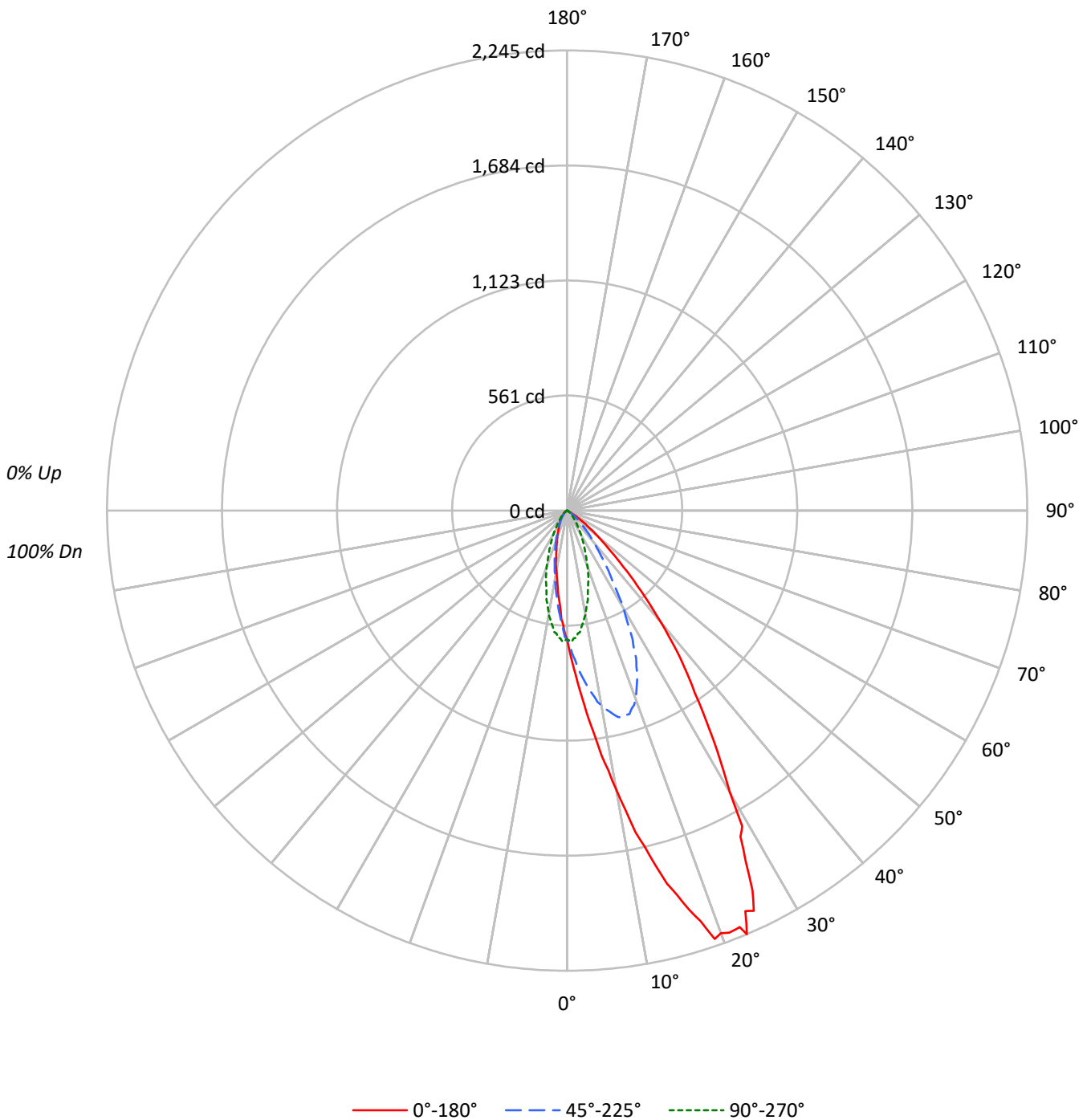
Input Watts (W): 11.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P275381

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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 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 96 | 95 | 93 | | | | | 93 | | | |
| 2 | 107 | 102 | 98 | 94 | 105 | 100 | 96 | 93 | 97 | 94 | 91 | 94 | 91 | 89 | 91 | 89 | 87 | 85 | | | | | 85 | | | |
| 3 | 101 | 94 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 83 | 88 | 84 | 81 | 86 | 83 | 80 | 79 | | | | | 79 | | | |
| 4 | 96 | 88 | 82 | 77 | 94 | 86 | 81 | 77 | 84 | 80 | 76 | 82 | 78 | 75 | 80 | 77 | 74 | 72 | | | | | 72 | | | |
| 5 | 90 | 81 | 75 | 71 | 89 | 80 | 75 | 70 | 79 | 74 | 70 | 77 | 73 | 69 | 75 | 72 | 68 | 67 | | | | | 67 | | | |
| 6 | 85 | 76 | 70 | 65 | 84 | 75 | 69 | 65 | 74 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 63 | 62 | | | | | 62 | | | |
| 7 | 81 | 71 | 65 | 60 | 79 | 70 | 64 | 60 | 69 | 64 | 60 | 68 | 63 | 59 | 67 | 62 | 59 | 57 | | | | | 57 | | | |
| 8 | 77 | 66 | 60 | 56 | 75 | 66 | 60 | 56 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 55 | 53 | | | | | 53 | | | |
| 9 | 73 | 62 | 56 | 52 | 71 | 62 | 56 | 52 | 61 | 55 | 52 | 60 | 55 | 51 | 59 | 55 | 51 | 50 | | | | | 50 | | | |
| 10 | 69 | 59 | 53 | 49 | 68 | 58 | 52 | 48 | 57 | 52 | 48 | 57 | 52 | 48 | 56 | 51 | 48 | 47 | | | | | 47 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|---------|--------|--------|
| 0° | 309793 | 309793 | 309793 |
| 5° | 470749 | 297703 | 219154 |
| 10° | 694674 | 258211 | 149245 |
| 15° | 962215 | 200891 | 103434 |
| 20° | 1152208 | 152473 | 74819 |
| 25° | 1173093 | 109693 | 53077 |
| 30° | 904693 | 76284 | 40905 |
| 35° | 653802 | 50353 | 36138 |
| 40° | 457541 | 34522 | 28983 |
| 45° | 270655 | 23165 | 18700 |
| 50° | 149675 | 15658 | 14814 |
| 55° | 71911 | 10150 | 12903 |
| 60° | 26445 | 6315 | 10558 |
| 65° | 5020 | 3736 | 7472 |
| 70° | 1587 | 1587 | 3029 |
| 75° | 0 | 2097 | 2097 |
| 80° | 0 | 3125 | 3125 |
| 85° | 0 | 6227 | 6227 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.4 | 8.1 |
| 10°-20° | 191.2 | 24.8 |
| 20°-30° | 246.4 | 32.0 |
| 30°-40° | 165.2 | 21.4 |
| 40°-50° | 75.1 | 9.8 |
| 50°-60° | 24.0 | 3.1 |
| 60°-70° | 4.3 | 0.6 |
| 70°-80° | 1.0 | 0.1 |
| 80°-90° | 0.8 | 0.1 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 500.0 | 64.9 |
| 0°-40° | 665.1 | 86.3 |
| 0°-60° | 764.3 | 99.2 |
| 0°-90° | 770.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 770.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 628 | 628 | 628 | 628 | 628 | |
| 5° | 950 | 809 | 601 | 482 | 442 | 104 |
| 15° | 1884 | 1045 | 393 | 235 | 202 | 539 |
| 25° | 2155 | 795 | 202 | 107 | 98 | 934 |
| 35° | 1086 | 339 | 84 | 49 | 60 | 691 |
| 45° | 388 | 116 | 33 | 22 | 27 | 313 |
| 55° | 84 | 29 | 12 | 10 | 15 | 83 |
| 65° | 4 | 3 | 3 | 3 | 6 | 8 |
| 75° | 0 | 1 | 1 | 1 | 1 | 0 |
| 85° | 0 | 1 | 1 | 1 | 1 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P275381

CATALOG NUMBER: ML4D09_930 - TIR50AWW25 - TL41RMW - TL42SMW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 627.9 | 627.9 | 627.9 | 627.9 | 627.9 | 627.9 | 627.9 | 627.9 | 627.9 | 627.9 | 627.9 |
| 1° | 684.7 | 669.7 | 680.4 | 672.9 | 671.9 | 680.4 | 657.9 | 651.5 | 672.9 | 654.7 | 653.6 |
| 2° | 742.6 | 735.1 | 736.2 | 729.7 | 732.9 | 722.2 | 722.2 | 717.9 | 710.4 | 714.7 | 697.6 |
| 3° | 803.7 | 800.4 | 801.5 | 781.2 | 788.7 | 781.2 | 773.7 | 759.7 | 772.6 | 757.6 | 727.6 |
| 4° | 874.4 | 862.6 | 861.5 | 856.2 | 856.2 | 830.5 | 829.4 | 824.0 | 810.1 | 786.5 | 773.7 |
| 5° | 950.5 | 941.9 | 919.4 | 924.7 | 906.5 | 905.5 | 888.3 | 858.3 | 862.6 | 833.7 | 809.0 |
| 6° | 1028.7 | 1027.6 | 1013.7 | 997.6 | 989.0 | 966.5 | 962.3 | 913.0 | 919.4 | 877.6 | 843.3 |
| 7° | 1105.8 | 1105.8 | 1096.2 | 1078.0 | 1055.5 | 1046.9 | 1028.7 | 977.3 | 962.3 | 917.2 | 877.6 |
| 8° | 1205.5 | 1189.4 | 1156.2 | 1154.1 | 1126.2 | 1108.0 | 1087.6 | 1029.8 | 1011.5 | 956.9 | 907.6 |
| 9° | 1283.7 | 1280.5 | 1246.2 | 1237.6 | 1209.8 | 1172.3 | 1148.7 | 1083.3 | 1063.0 | 990.1 | 944.0 |
| 10° | 1386.6 | 1378.0 | 1360.9 | 1322.3 | 1292.3 | 1265.5 | 1232.3 | 1169.1 | 1114.4 | 1037.3 | 965.5 |
| 11° | 1484.1 | 1475.5 | 1438.0 | 1417.7 | 1349.1 | 1312.6 | 1277.3 | 1215.1 | 1147.6 | 1069.4 | 986.9 |
| 12° | 1603.0 | 1544.1 | 1538.7 | 1501.2 | 1444.4 | 1416.6 | 1359.8 | 1284.8 | 1195.8 | 1089.8 | 1004.0 |
| 13° | 1683.4 | 1662.0 | 1637.3 | 1569.8 | 1522.7 | 1458.4 | 1396.2 | 1308.4 | 1230.1 | 1126.2 | 1023.3 |
| 14° | 1785.2 | 1785.2 | 1727.3 | 1671.6 | 1573.0 | 1545.2 | 1488.4 | 1373.7 | 1264.4 | 1147.6 | 1038.3 |
| 15° | 1883.8 | 1845.2 | 1802.3 | 1735.9 | 1638.4 | 1596.6 | 1516.2 | 1411.2 | 1306.2 | 1163.7 | 1044.8 |
| 16° | 1953.4 | 1952.4 | 1908.4 | 1816.3 | 1704.8 | 1648.0 | 1581.6 | 1447.7 | 1326.6 | 1170.1 | 1037.3 |
| 17° | 2035.9 | 2054.2 | 1973.8 | 1878.4 | 1746.6 | 1695.2 | 1596.6 | 1450.9 | 1340.5 | 1173.3 | 1038.3 |
| 18° | 2105.6 | 2095.9 | 2034.9 | 1925.6 | 1836.6 | 1707.0 | 1645.9 | 1476.6 | 1344.8 | 1159.4 | 1016.9 |
| 19° | 2210.6 | 2164.5 | 2053.1 | 1965.2 | 1813.1 | 1769.1 | 1659.8 | 1488.4 | 1330.9 | 1155.1 | 1003.0 |
| 20° | 2194.5 | 2195.6 | 2091.7 | 1975.9 | 1850.6 | 1730.6 | 1652.3 | 1484.1 | 1315.9 | 1138.0 | 978.3 |
| 21° | 2206.3 | 2208.5 | 2098.1 | 1977.0 | 1843.1 | 1739.1 | 1625.5 | 1442.3 | 1289.1 | 1127.3 | 944.0 |
| 22.5° | 2199.9 | 2151.7 | 2082.0 | 1954.5 | 1780.9 | 1719.8 | 1573.0 | 1415.5 | 1237.6 | 1059.8 | 892.6 |
| 23° | 2244.9 | 2165.6 | 2029.5 | 1913.8 | 1760.6 | 1683.4 | 1578.4 | 1395.2 | 1250.5 | 1050.1 | 873.3 |
| 24° | 2138.8 | 2109.9 | 1998.4 | 1888.1 | 1708.0 | 1611.6 | 1532.3 | 1348.0 | 1207.6 | 985.8 | 831.5 |
| 25° | 2154.9 | 2029.5 | 1941.6 | 1800.2 | 1662.0 | 1550.5 | 1448.7 | 1276.2 | 1153.0 | 947.2 | 795.1 |
| 26° | 2062.7 | 1986.7 | 1867.7 | 1743.4 | 1574.1 | 1475.5 | 1401.6 | 1221.6 | 1059.8 | 894.7 | 739.4 |
| 27° | 1918.1 | 1914.9 | 1798.1 | 1633.0 | 1501.2 | 1419.8 | 1325.5 | 1158.3 | 1025.5 | 839.0 | 704.0 |
| 28° | 1801.3 | 1764.8 | 1665.2 | 1551.6 | 1396.2 | 1297.6 | 1241.9 | 1087.6 | 937.6 | 779.0 | 640.8 |
| 29° | 1761.6 | 1666.3 | 1572.0 | 1441.2 | 1328.7 | 1261.2 | 1162.6 | 1004.0 | 862.6 | 716.9 | 588.3 |
| 30° | 1588.0 | 1546.2 | 1459.4 | 1363.0 | 1213.0 | 1141.2 | 1068.3 | 920.5 | 803.7 | 669.7 | 549.7 |
| 32.5° | 1327.6 | 1293.4 | 1213.0 | 1131.6 | 1015.8 | 943.0 | 874.4 | 753.3 | 636.5 | 517.6 | 421.1 |
| 35° | 1085.5 | 1082.3 | 995.5 | 915.1 | 819.7 | 755.4 | 696.5 | 592.6 | 505.8 | 402.9 | 338.6 |
| 37.5° | 904.4 | 866.9 | 799.4 | 741.5 | 653.6 | 605.4 | 549.7 | 455.4 | 391.1 | 319.3 | 258.2 |
| 40° | 710.4 | 684.7 | 636.5 | 570.1 | 503.6 | 458.6 | 422.2 | 348.3 | 300.0 | 244.3 | 200.4 |
| 42.5° | 534.7 | 516.5 | 475.8 | 434.0 | 380.4 | 353.6 | 320.4 | 265.7 | 228.2 | 188.6 | 158.6 |
| 45° | 387.9 | 375.0 | 348.3 | 315.0 | 273.2 | 251.8 | 232.5 | 199.3 | 166.1 | 141.4 | 115.7 |
| 47.5° | 270.0 | 270.0 | 245.4 | 222.9 | 199.3 | 180.0 | 171.4 | 144.7 | 124.3 | 102.9 | 88.9 |
| 50° | 195.0 | 189.7 | 175.7 | 159.7 | 141.4 | 131.8 | 120.0 | 103.9 | 88.9 | 76.1 | 64.3 |
| 52.5° | 131.8 | 130.7 | 120.0 | 111.4 | 99.7 | 93.2 | 83.6 | 71.8 | 62.1 | 52.5 | 43.9 |
| 55° | 83.6 | 81.4 | 76.1 | 68.6 | 63.2 | 58.9 | 54.6 | 46.1 | 40.7 | 34.3 | 28.9 |
| 57.5° | 49.3 | 47.1 | 43.9 | 41.8 | 37.5 | 35.4 | 32.1 | 27.9 | 24.6 | 21.4 | 19.3 |
| 60° | 26.8 | 25.7 | 24.6 | 22.5 | 22.5 | 20.4 | 18.2 | 17.1 | 15.0 | 12.9 | 10.7 |
| 62.5° | 11.8 | 11.8 | 10.7 | 9.6 | 9.6 | 9.6 | 8.6 | 8.6 | 7.5 | 7.5 | 6.4 |
| 65° | 4.3 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |



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CATALOG NUMBER: ML4D09_930 - TIR50AWW25 - TL41RMW - TL42SMW

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|
| 67.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 70° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: ML4D09_930 - TIR50AWW25 - TL41RMW - TL42SMW

CANDELA DISTRIBUTION (continued):

| | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|--------|-------|--------|-------|
| 0° | 627.9 | 627.9 | 627.9 | 627.9 | 627.9 | 627.9 |
| 1° | 651.5 | 634.4 | 617.2 | 618.3 | 605.4 | 600.1 |
| 2° | 659.0 | 640.8 | 599.0 | 574.4 | 564.7 | 558.3 |
| 3° | 681.5 | 623.6 | 580.8 | 547.6 | 520.8 | 529.3 |
| 4° | 696.5 | 622.6 | 557.2 | 509.0 | 471.5 | 474.7 |
| 5° | 696.5 | 601.1 | 522.9 | 482.2 | 445.8 | 442.5 |
| 6° | 711.5 | 597.9 | 500.4 | 451.1 | 412.5 | 414.7 |
| 7° | 714.7 | 572.2 | 481.1 | 420.0 | 381.5 | 379.3 |
| 8° | 711.5 | 552.9 | 449.0 | 392.2 | 360.0 | 348.3 |
| 9° | 699.7 | 532.6 | 421.1 | 366.5 | 330.0 | 321.5 |
| 10° | 691.1 | 515.4 | 399.7 | 340.8 | 305.4 | 297.9 |
| 11° | 681.5 | 487.6 | 372.9 | 311.8 | 281.8 | 280.7 |
| 12° | 668.6 | 465.1 | 349.3 | 293.6 | 258.2 | 266.8 |
| 13° | 652.6 | 449.0 | 326.8 | 271.1 | 244.3 | 236.8 |
| 14° | 632.2 | 415.8 | 307.5 | 252.9 | 219.7 | 218.6 |
| 15° | 620.4 | 393.3 | 290.4 | 234.7 | 207.9 | 202.5 |
| 16° | 591.5 | 371.8 | 266.8 | 215.4 | 187.5 | 189.7 |
| 17° | 575.4 | 353.6 | 248.6 | 199.3 | 176.8 | 174.7 |
| 18° | 541.1 | 333.3 | 221.8 | 185.4 | 163.9 | 161.8 |
| 19° | 512.2 | 314.0 | 214.3 | 171.4 | 154.3 | 153.2 |
| 20° | 485.4 | 290.4 | 199.3 | 160.7 | 142.5 | 142.5 |
| 21° | 459.7 | 267.9 | 185.4 | 148.9 | 133.9 | 130.7 |
| 22.5° | 420.0 | 241.1 | 167.2 | 133.9 | 118.9 | 117.9 |
| 23° | 407.2 | 230.4 | 158.6 | 126.4 | 114.7 | 114.7 |
| 24° | 379.3 | 215.4 | 145.7 | 116.8 | 107.2 | 105.0 |
| 25° | 360.0 | 201.5 | 133.9 | 107.2 | 97.5 | 97.5 |
| 26° | 329.0 | 184.3 | 122.2 | 98.6 | 91.1 | 92.2 |
| 27° | 306.5 | 170.4 | 112.5 | 91.1 | 83.6 | 85.7 |
| 28° | 287.2 | 156.4 | 103.9 | 83.6 | 79.3 | 80.4 |
| 29° | 269.0 | 143.6 | 93.2 | 78.2 | 75.0 | 76.1 |
| 30° | 243.2 | 133.9 | 85.7 | 71.8 | 70.7 | 71.8 |
| 32.5° | 194.0 | 103.9 | 69.7 | 58.9 | 62.1 | 64.3 |
| 35° | 148.9 | 83.6 | 55.7 | 49.3 | 54.6 | 60.0 |
| 37.5° | 115.7 | 66.4 | 45.0 | 40.7 | 47.1 | 53.6 |
| 40° | 92.2 | 53.6 | 36.4 | 33.2 | 38.6 | 45.0 |
| 42.5° | 72.9 | 42.9 | 31.1 | 26.8 | 30.0 | 34.3 |
| 45° | 57.9 | 33.2 | 24.6 | 22.5 | 24.6 | 26.8 |
| 47.5° | 42.9 | 26.8 | 20.4 | 18.2 | 20.4 | 22.5 |
| 50° | 32.1 | 20.4 | 16.1 | 15.0 | 17.1 | 19.3 |
| 52.5° | 24.6 | 15.0 | 12.9 | 11.8 | 15.0 | 17.1 |
| 55° | 17.1 | 11.8 | 9.6 | 9.6 | 12.9 | 15.0 |
| 57.5° | 11.8 | 8.6 | 8.6 | 7.5 | 9.6 | 12.9 |
| 60° | 8.6 | 6.4 | 6.4 | 6.4 | 8.6 | 10.7 |
| 62.5° | 5.4 | 4.3 | 4.3 | 4.3 | 6.4 | 7.5 |
| 65° | 3.2 | 3.2 | 3.2 | 3.2 | 4.3 | 6.4 |



TEST NUMBER: P275381

CATALOG NUMBER: ML4D09_930 - TIR50AWW25 - TL41RMW - TL42SMW

CANDELA DISTRIBUTION (continued):

| | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 1.1 | 1.1 | 2.1 | 2.1 | 3.2 | 4.3 |
| 70° | 1.1 | 1.1 | 1.1 | 1.1 | 2.1 | 2.1 |
| 72.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 75° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 77.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 80° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 82.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 85° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 87.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)