

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: P231971

Luminaire Tested: **FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-15)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
4FT LENGTH, 1-MODULE LED WITH PA187 LENS
Light Source: (84) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

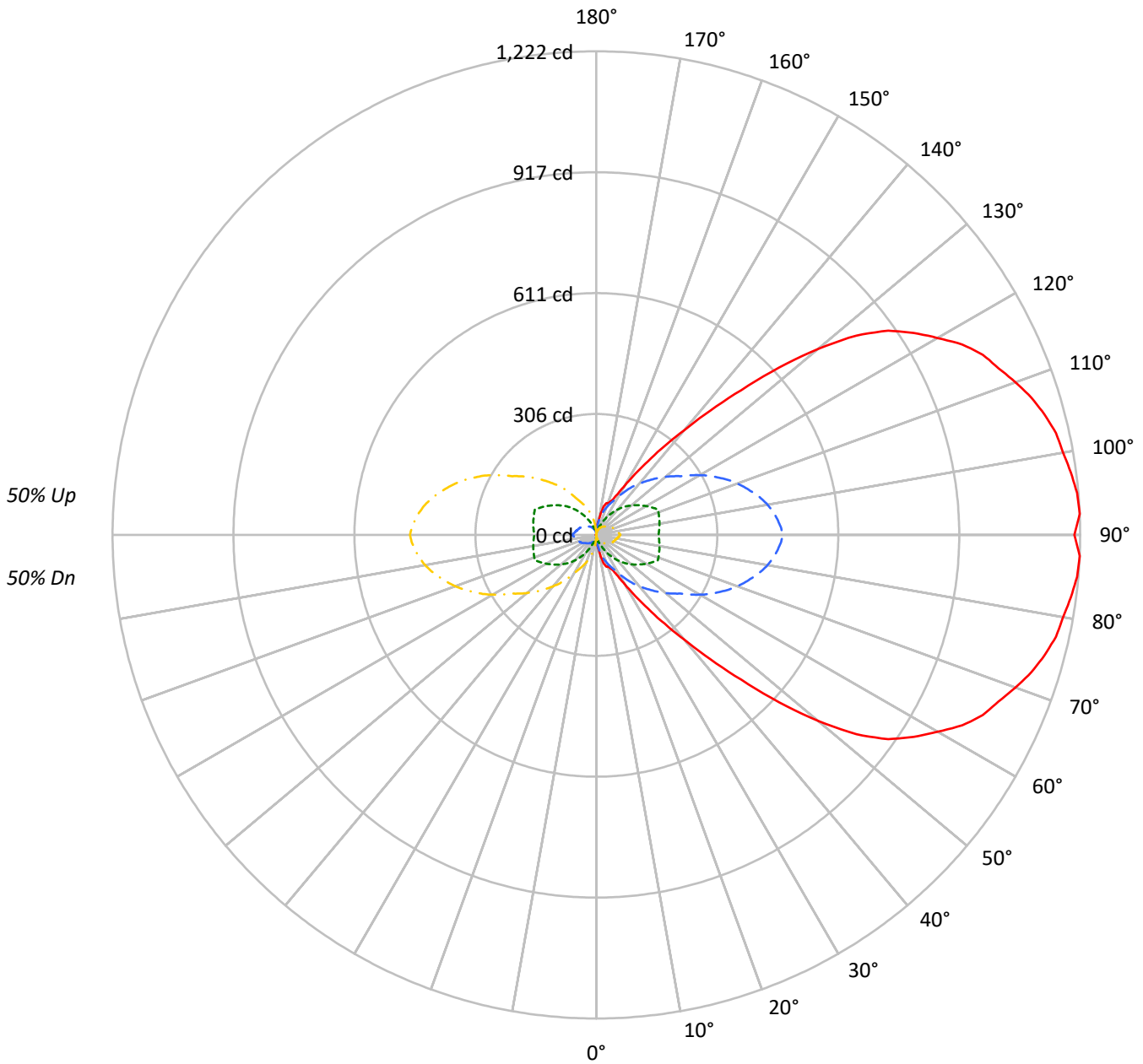
Lumens per Lamp: N/A
Luminaire Lumens: 2848.7 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 23.92 / 15.29 / 16.18
Luminous Opening: Rectangular w/ Sides (W: 3.79' x L: 0.19' x H: 0.31')
CIE Type: General Diffuse

Input Watts (W): 23.6
Input Voltage (V): 120
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: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

Luminous Intensity Polar Plot



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



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |
| 1 | 91 | 83 | 77 | 71 | 83 | 76 | 70 | 65 | 63 | 58 | 54 | 50 | 47 | 43 | 39 | 36 | 33 | 28 |
| 2 | 80 | 69 | 60 | 53 | 72 | 63 | 55 | 48 | 51 | 45 | 39 | 40 | 35 | 31 | 30 | 26 | 23 | 18 |
| 3 | 71 | 59 | 49 | 41 | 64 | 53 | 44 | 37 | 43 | 36 | 30 | 33 | 28 | 23 | 24 | 20 | 17 | 12 |
| 4 | 64 | 50 | 40 | 33 | 58 | 46 | 37 | 30 | 37 | 30 | 24 | 28 | 23 | 18 | 21 | 16 | 13 | 9 |
| 5 | 58 | 44 | 34 | 27 | 53 | 40 | 31 | 24 | 32 | 25 | 19 | 25 | 19 | 15 | 18 | 14 | 10 | 6 |
| 6 | 53 | 39 | 29 | 22 | 48 | 35 | 27 | 20 | 28 | 21 | 16 | 22 | 16 | 12 | 16 | 12 | 8 | 5 |
| 7 | 49 | 35 | 25 | 19 | 44 | 31 | 23 | 17 | 25 | 19 | 14 | 20 | 14 | 10 | 14 | 10 | 7 | 4 |
| 8 | 45 | 31 | 22 | 16 | 41 | 28 | 20 | 15 | 23 | 16 | 12 | 18 | 12 | 9 | 13 | 9 | 6 | 3 |
| 9 | 42 | 28 | 20 | 14 | 38 | 26 | 18 | 13 | 21 | 14 | 10 | 16 | 11 | 7 | 12 | 8 | 5 | 2 |
| 10 | 39 | 26 | 18 | 12 | 35 | 23 | 16 | 11 | 19 | 13 | 9 | 15 | 10 | 6 | 11 | 7 | 4 | 2 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|------|-------|
| 0° | 11 | 11 | 11 | 11 |
| 5° | 255 | 92 | 0 | 92 |
| 10° | 526 | 174 | 0 | 174 |
| 15° | 825 | 261 | 0 | 261 |
| 20° | 849 | 350 | 0 | 350 |
| 25° | 920 | 539 | 0 | 539 |
| 30° | 1285 | 839 | 0 | 839 |
| 35° | 1935 | 1171 | 6 | 1171 |
| 40° | 2840 | 1549 | 6 | 1549 |
| 45° | 4154 | 1990 | 6 | 1990 |
| 50° | 5771 | 2479 | 6 | 2479 |
| 55° | 7027 | 3084 | 5 | 3084 |
| 60° | 7752 | 3855 | 5 | 3855 |
| 65° | 8436 | 4886 | 5 | 4886 |
| 70° | 8940 | 6021 | 6 | 6021 |
| 75° | 9498 | 7350 | 6 | 7350 |
| 80° | 9984 | 9614 | 0 | 9614 |
| 85° | 10558 | 14250 | 0 | 14250 |



TEST NUMBER: P231971

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1.2 | 0.0 |
| 10°-20° | 9.1 | 0.3 |
| 20°-30° | 24.2 | 0.8 |
| 30°-40° | 56.1 | 2.0 |
| 40°-50° | 112.3 | 3.9 |
| 50°-60° | 200.2 | 7.0 |
| 60°-70° | 289.2 | 10.2 |
| 70°-80° | 350.4 | 12.3 |
| 80°-90° | 381.7 | 13.4 |
| 90°-100° | 381.7 | 13.4 |
| 100°-110° | 350.4 | 12.3 |
| 110°-120° | 289.2 | 10.2 |
| 120°-130° | 200.2 | 7.0 |
| 130°-140° | 112.3 | 3.9 |
| 140°-150° | 56.1 | 2.0 |
| 150°-160° | 24.2 | 0.8 |
| 160°-170° | 9.1 | 0.3 |
| 170°-180° | 1.2 | 0.0 |
| 0°-30° | 34.5 | 1.2 |
| 0°-40° | 90.6 | 3.2 |
| 0°-60° | 403.0 | 14.1 |
| 0°-90° | 1424.3 | 50.0 |
| 90°-120° | 1021.3 | 35.9 |
| 90°-150° | 1389.9 | 48.8 |
| 90°-180° | 1424.0 | 50.0 |
| 0°-180° | 2848.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|-----|------|------|------|------|
| 0° | 1 | 1 | 1 | 1 | 1 | |
| 5° | 19 | 6 | 0 | 6 | 19 | 3 |
| 15° | 76 | 17 | 0 | 17 | 76 | 21 |
| 25° | 98 | 34 | 0 | 34 | 98 | 49 |
| 35° | 227 | 67 | 1 | 67 | 227 | 150 |
| 45° | 517 | 101 | 1 | 101 | 517 | 412 |
| 55° | 900 | 131 | 1 | 131 | 900 | 796 |
| 65° | 1077 | 160 | 1 | 160 | 1077 | 1063 |
| 75° | 1172 | 164 | 1 | 164 | 1172 | 1237 |
| 85° | 1219 | 159 | 0 | 159 | 1219 | 990 |
| 90° | 1207 | 157 | 0 | 157 | 1207 | 666 |
| 95° | 1219 | 159 | 0 | 159 | 1219 | 990 |
| 105° | 1172 | 164 | 1 | 164 | 1172 | 1237 |
| 115° | 1077 | 160 | 1 | 160 | 1077 | 1063 |
| 125° | 900 | 131 | 1 | 131 | 900 | 796 |
| 135° | 517 | 101 | 1 | 101 | 517 | 412 |
| 145° | 227 | 67 | 1 | 67 | 227 | 150 |
| 155° | 98 | 34 | 0 | 34 | 98 | 49 |
| 165° | 76 | 17 | 0 | 17 | 76 | 21 |
| 175° | 19 | 6 | 0 | 6 | 19 | 3 |
| 180° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 25° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 2.5° | 8.6 | 8.7 | 8.8 | 8.9 | 9.1 | 9.2 | 9.3 | 9.0 | 9.0 | 9.0 | 9.0 |
| 5° | 19.2 | 19.4 | 19.6 | 19.9 | 20.1 | 19.8 | 19.8 | 19.8 | 19.7 | 19.6 | 19.4 |
| 7.5° | 33.7 | 34.0 | 34.2 | 34.5 | 34.1 | 34.0 | 33.8 | 33.6 | 33.2 | 32.8 | 32.3 |
| 10° | 44.3 | 44.6 | 45.0 | 45.3 | 45.0 | 45.0 | 44.8 | 44.7 | 44.4 | 44.0 | 43.6 |
| 12.5° | 60.9 | 61.1 | 61.4 | 60.9 | 60.6 | 60.1 | 59.6 | 58.9 | 58.1 | 57.1 | 56.1 |
| 15° | 76.1 | 76.2 | 76.3 | 75.6 | 75.1 | 74.5 | 73.7 | 72.8 | 71.8 | 70.6 | 69.3 |
| 17.5° | 84.7 | 85.0 | 85.2 | 84.9 | 84.7 | 84.4 | 83.9 | 83.3 | 82.5 | 81.5 | 80.5 |
| 20° | 84.7 | 85.6 | 86.5 | 87.3 | 88.0 | 88.6 | 89.1 | 89.3 | 89.4 | 89.2 | 88.9 |
| 22.5° | 90.6 | 92.2 | 93.7 | 94.6 | 95.6 | 96.4 | 96.9 | 97.1 | 97.0 | 96.6 | 95.9 |
| 25° | 97.9 | 100.2 | 102.1 | 103.9 | 105.5 | 106.7 | 107.6 | 108.2 | 108.4 | 108.1 | 107.5 |
| 27.5° | 117.1 | 119.5 | 121.1 | 122.4 | 123.3 | 123.8 | 123.9 | 123.6 | 122.9 | 121.9 | 121.0 |
| 30° | 144.2 | 146.3 | 147.1 | 147.7 | 147.6 | 147.1 | 146.0 | 144.5 | 142.6 | 140.3 | 138.6 |
| 32.5° | 182.6 | 184.0 | 183.3 | 182.2 | 180.4 | 177.7 | 174.5 | 170.6 | 166.3 | 162.3 | 159.0 |
| 35° | 226.9 | 227.3 | 225.1 | 222.4 | 218.7 | 214.0 | 208.6 | 202.5 | 195.7 | 189.6 | 183.4 |
| 37.5° | 282.5 | 281.4 | 276.8 | 271.6 | 265.0 | 257.2 | 248.3 | 238.6 | 228.5 | 219.8 | 210.8 |
| 40° | 344.7 | 342.2 | 335.4 | 327.8 | 318.3 | 307.3 | 294.9 | 281.2 | 267.6 | 254.6 | 241.2 |
| 42.5° | 425.4 | 420.8 | 410.1 | 398.3 | 384.1 | 367.7 | 349.5 | 329.7 | 312.0 | 294.2 | 275.7 |
| 45° | 517.4 | 510.6 | 496.1 | 480.1 | 461.1 | 439.4 | 415.2 | 391.9 | 365.2 | 340.1 | 315.4 |
| 47.5° | 626.5 | 616.4 | 596.5 | 574.9 | 549.6 | 521.0 | 489.6 | 457.6 | 426.1 | 393.3 | 364.8 |
| 50° | 731.7 | 721.1 | 699.6 | 675.5 | 646.2 | 611.9 | 572.8 | 533.2 | 493.2 | 454.8 | 420.0 |
| 52.5° | 827.6 | 821.6 | 803.5 | 781.2 | 751.3 | 713.2 | 666.7 | 619.6 | 570.0 | 522.4 | 479.3 |
| 55° | 899.8 | 899.1 | 887.9 | 872.7 | 850.3 | 820.1 | 779.7 | 722.3 | 657.2 | 598.6 | 542.2 |
| 57.5° | 950.0 | 951.5 | 945.5 | 937.1 | 924.0 | 906.3 | 875.8 | 816.6 | 756.2 | 680.0 | 610.2 |
| 60° | 995.0 | 996.2 | 990.7 | 983.8 | 974.1 | 961.7 | 932.6 | 885.6 | 825.4 | 754.7 | 680.8 |
| 62.5° | 1042.0 | 1039.3 | 1033.2 | 1024.4 | 1013.5 | 1001.0 | 974.7 | 935.2 | 880.2 | 815.5 | 739.3 |
| 65° | 1077.1 | 1072.7 | 1065.7 | 1056.6 | 1046.1 | 1035.7 | 1016.6 | 986.4 | 933.4 | 865.7 | 788.8 |
| 67.5° | 1099.6 | 1098.6 | 1094.1 | 1085.5 | 1072.3 | 1063.0 | 1053.5 | 1032.5 | 993.0 | 923.4 | 838.4 |
| 70° | 1126.7 | 1123.6 | 1118.1 | 1110.9 | 1103.1 | 1090.4 | 1077.4 | 1065.0 | 1042.0 | 982.7 | 891.3 |
| 72.5° | 1152.5 | 1148.4 | 1141.2 | 1131.3 | 1121.6 | 1110.9 | 1099.0 | 1085.8 | 1065.9 | 1016.0 | 934.9 |
| 75° | 1172.3 | 1167.8 | 1160.4 | 1149.9 | 1137.4 | 1125.6 | 1113.9 | 1102.7 | 1086.8 | 1042.3 | 964.2 |
| 77.5° | 1188.9 | 1184.3 | 1176.4 | 1162.5 | 1148.1 | 1135.0 | 1128.0 | 1118.6 | 1103.2 | 1069.5 | 991.8 |
| 80° | 1196.8 | 1197.6 | 1189.6 | 1171.1 | 1154.7 | 1146.2 | 1136.9 | 1133.3 | 1119.8 | 1095.0 | 1015.4 |
| 82.5° | 1208.7 | 1206.9 | 1195.9 | 1181.0 | 1168.3 | 1158.5 | 1145.8 | 1139.7 | 1130.0 | 1104.2 | 1037.9 |
| 85° | 1218.6 | 1207.5 | 1192.0 | 1189.1 | 1180.2 | 1169.9 | 1154.2 | 1142.5 | 1134.4 | 1110.0 | 1053.5 |
| 87.5° | 1222.0 | 1202.0 | 1203.3 | 1194.0 | 1179.4 | 1171.6 | 1157.2 | 1145.6 | 1137.5 | 1114.3 | 1060.7 |
| 90° | 1207.4 | 1202.8 | 1203.4 | 1189.5 | 1171.0 | 1169.7 | 1157.1 | 1148.5 | 1138.6 | 1114.8 | 1057.9 |
| 92.5° | 1222.0 | 1202.0 | 1203.3 | 1194.0 | 1179.4 | 1171.6 | 1157.2 | 1145.6 | 1137.5 | 1114.3 | 1060.7 |
| 95° | 1218.6 | 1207.5 | 1192.0 | 1189.1 | 1180.2 | 1169.9 | 1154.2 | 1142.5 | 1134.4 | 1110.0 | 1053.5 |
| 97.5° | 1208.7 | 1206.9 | 1195.9 | 1181.0 | 1168.3 | 1158.5 | 1145.8 | 1139.7 | 1130.0 | 1104.2 | 1037.9 |
| 100° | 1196.8 | 1197.6 | 1189.6 | 1171.1 | 1154.7 | 1146.2 | 1136.9 | 1133.3 | 1119.8 | 1095.0 | 1015.4 |
| 102.5° | 1188.9 | 1184.3 | 1176.4 | 1162.5 | 1148.1 | 1135.0 | 1128.0 | 1118.6 | 1103.2 | 1069.5 | 991.8 |
| 105° | 1172.3 | 1167.8 | 1160.4 | 1149.9 | 1137.4 | 1125.6 | 1113.9 | 1102.7 | 1086.8 | 1042.3 | 964.2 |
| 107.5° | 1152.5 | 1148.4 | 1141.2 | 1131.3 | 1121.6 | 1110.9 | 1099.0 | 1085.8 | 1065.9 | 1016.0 | 934.9 |
| 110° | 1126.7 | 1123.6 | 1118.1 | 1110.9 | 1103.1 | 1090.4 | 1077.4 | 1065.0 | 1042.0 | 982.7 | 891.3 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 25° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 112.5° | 1099.6 | 1098.6 | 1094.1 | 1085.5 | 1072.3 | 1063.0 | 1053.5 | 1032.5 | 993.0 | 923.4 | 838.4 |
| 115° | 1077.1 | 1072.7 | 1065.7 | 1056.6 | 1046.1 | 1035.7 | 1016.6 | 986.4 | 933.4 | 865.7 | 788.8 |
| 117.5° | 1042.0 | 1039.3 | 1033.2 | 1024.4 | 1013.5 | 1001.0 | 974.7 | 935.2 | 880.2 | 815.5 | 739.3 |
| 120° | 995.0 | 996.2 | 990.7 | 983.8 | 974.1 | 961.7 | 932.6 | 885.6 | 825.4 | 754.7 | 680.8 |
| 122.5° | 950.0 | 951.5 | 945.5 | 937.0 | 924.0 | 906.3 | 875.8 | 816.6 | 756.2 | 680.0 | 610.2 |
| 125° | 899.8 | 899.1 | 887.9 | 872.7 | 850.3 | 820.1 | 779.7 | 722.3 | 657.2 | 598.6 | 542.2 |
| 127.5° | 827.6 | 821.6 | 803.5 | 781.2 | 751.3 | 713.2 | 666.7 | 619.6 | 570.0 | 522.4 | 479.3 |
| 130° | 731.7 | 721.1 | 699.6 | 675.5 | 646.2 | 611.9 | 572.8 | 533.2 | 493.2 | 454.8 | 420.0 |
| 132.5° | 626.5 | 616.4 | 596.5 | 574.9 | 549.6 | 521.0 | 489.6 | 457.6 | 426.1 | 393.3 | 364.8 |
| 135° | 517.4 | 510.6 | 496.1 | 480.1 | 461.1 | 439.4 | 415.2 | 391.9 | 365.2 | 340.1 | 315.4 |
| 137.5° | 425.4 | 420.8 | 410.1 | 398.3 | 384.1 | 367.7 | 349.5 | 329.7 | 312.0 | 294.2 | 275.7 |
| 140° | 344.7 | 342.2 | 335.4 | 327.8 | 318.3 | 307.3 | 294.9 | 281.2 | 267.6 | 254.6 | 241.2 |
| 142.5° | 282.5 | 281.4 | 276.8 | 271.6 | 265.0 | 257.2 | 248.3 | 238.6 | 228.5 | 219.8 | 210.8 |
| 145° | 226.9 | 227.3 | 225.1 | 222.4 | 218.7 | 214.0 | 208.6 | 202.5 | 195.7 | 189.6 | 183.4 |
| 147.5° | 182.6 | 184.0 | 183.3 | 182.2 | 180.4 | 177.7 | 174.5 | 170.6 | 166.3 | 162.3 | 159.0 |
| 150° | 144.2 | 146.3 | 147.1 | 147.7 | 147.6 | 147.1 | 146.0 | 144.5 | 142.6 | 140.3 | 138.6 |
| 152.5° | 117.1 | 119.5 | 121.1 | 122.4 | 123.3 | 123.8 | 123.9 | 123.6 | 122.9 | 121.9 | 121.0 |
| 155° | 97.9 | 100.2 | 102.1 | 103.9 | 105.5 | 106.7 | 107.6 | 108.2 | 108.4 | 108.1 | 107.5 |
| 157.5° | 90.6 | 92.2 | 93.7 | 94.6 | 95.6 | 96.4 | 96.9 | 97.1 | 97.0 | 96.6 | 95.9 |
| 160° | 84.7 | 85.6 | 86.5 | 87.3 | 88.0 | 88.6 | 89.1 | 89.3 | 89.4 | 89.2 | 88.9 |
| 162.5° | 84.7 | 85.0 | 85.2 | 84.9 | 84.7 | 84.4 | 83.9 | 83.3 | 82.5 | 81.5 | 80.5 |
| 165° | 76.1 | 76.2 | 76.3 | 75.6 | 75.1 | 74.5 | 73.7 | 72.8 | 71.8 | 70.6 | 69.3 |
| 167.5° | 60.9 | 61.1 | 61.4 | 60.9 | 60.6 | 60.1 | 59.6 | 58.9 | 58.1 | 57.1 | 56.1 |
| 170° | 44.3 | 44.6 | 45.0 | 45.3 | 45.0 | 45.0 | 44.8 | 44.7 | 44.4 | 44.0 | 43.6 |
| 172.5° | 33.7 | 34.0 | 34.2 | 34.5 | 34.1 | 34.0 | 33.8 | 33.6 | 33.2 | 32.8 | 32.3 |
| 175° | 19.2 | 19.4 | 19.6 | 19.9 | 20.1 | 19.8 | 19.8 | 19.8 | 19.7 | 19.6 | 19.4 |
| 177.5° | 8.6 | 8.7 | 8.8 | 8.9 | 9.1 | 9.2 | 9.3 | 9.0 | 9.0 | 9.0 | 9.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° | 52.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 2.5° | 8.9 | 8.9 | 8.8 | 8.7 | 8.6 | 8.5 | 8.3 | 8.2 | 8.0 | 7.8 | 7.6 |
| 5° | 19.2 | 18.9 | 18.7 | 18.3 | 18.0 | 17.6 | 17.1 | 16.7 | 16.2 | 15.6 | 15.1 |
| 7.5° | 31.8 | 31.2 | 30.5 | 29.8 | 29.0 | 28.1 | 27.2 | 26.2 | 25.2 | 24.3 | 23.5 |
| 10° | 43.1 | 42.5 | 41.9 | 41.1 | 40.3 | 39.4 | 38.4 | 37.1 | 35.7 | 34.3 | 32.8 |
| 12.5° | 55.0 | 53.7 | 52.4 | 51.0 | 49.7 | 48.6 | 47.4 | 46.2 | 44.8 | 43.4 | 41.9 |
| 15° | 67.9 | 66.4 | 64.8 | 63.1 | 61.2 | 59.3 | 57.3 | 55.3 | 53.2 | 51.4 | 49.7 |
| 17.5° | 79.2 | 77.8 | 75.9 | 73.9 | 71.8 | 69.6 | 67.3 | 65.0 | 62.5 | 60.1 | 57.6 |
| 20° | 88.2 | 86.9 | 85.2 | 83.3 | 81.2 | 78.9 | 76.3 | 73.6 | 70.9 | 68.2 | 65.4 |
| 22.5° | 95.1 | 94.4 | 93.3 | 91.8 | 90.0 | 87.5 | 84.7 | 81.7 | 78.6 | 75.5 | 72.4 |
| 25° | 106.5 | 105.2 | 103.3 | 101.0 | 98.8 | 96.4 | 93.5 | 90.1 | 86.5 | 82.7 | 79.1 |
| 27.5° | 120.0 | 118.6 | 116.5 | 114.0 | 111.1 | 107.5 | 104.1 | 99.8 | 95.4 | 90.6 | 86.1 |
| 30° | 136.6 | 134.2 | 131.8 | 128.8 | 125.4 | 121.3 | 116.8 | 111.7 | 106.7 | 102.4 | 97.8 |
| 32.5° | 155.5 | 151.7 | 148.4 | 144.9 | 141.2 | 136.8 | 131.7 | 126.4 | 121.0 | 115.5 | 110.5 |
| 35° | 176.9 | 170.9 | 166.3 | 161.6 | 156.9 | 152.2 | 147.0 | 141.2 | 135.1 | 129.0 | 122.9 |
| 37.5° | 201.6 | 193.6 | 185.9 | 179.3 | 173.1 | 167.1 | 161.4 | 155.5 | 149.1 | 142.3 | 135.5 |
| 40° | 228.4 | 217.9 | 208.0 | 199.2 | 190.7 | 182.9 | 176.1 | 169.2 | 162.5 | 155.4 | 147.9 |
| 42.5° | 259.7 | 245.7 | 232.2 | 221.1 | 210.8 | 200.5 | 191.1 | 183.4 | 175.6 | 168.1 | 160.2 |
| 45° | 296.2 | 276.6 | 260.0 | 244.2 | 230.9 | 218.7 | 208.0 | 197.6 | 189.0 | 180.4 | 172.1 |
| 47.5° | 337.8 | 311.8 | 290.2 | 269.7 | 252.8 | 237.6 | 224.8 | 213.3 | 202.3 | 192.9 | 183.7 |
| 50° | 384.4 | 352.9 | 322.5 | 298.1 | 276.2 | 257.6 | 241.7 | 228.4 | 216.5 | 205.4 | 195.2 |
| 52.5° | 436.3 | 397.3 | 360.3 | 327.9 | 300.9 | 278.1 | 259.1 | 243.4 | 230.7 | 218.0 | 209.4 |
| 55° | 491.6 | 443.6 | 400.9 | 360.7 | 326.9 | 299.3 | 276.2 | 258.6 | 246.4 | 235.6 | 227.0 |
| 57.5° | 549.3 | 492.5 | 441.6 | 396.2 | 355.0 | 320.9 | 298.7 | 280.4 | 264.7 | 252.5 | 243.0 |
| 60° | 607.2 | 542.6 | 483.1 | 430.3 | 387.6 | 351.4 | 322.3 | 302.2 | 284.5 | 269.7 | 258.3 |
| 62.5° | 663.0 | 589.7 | 525.9 | 470.4 | 421.3 | 379.7 | 347.3 | 323.2 | 304.5 | 286.4 | 272.9 |
| 65° | 708.5 | 637.0 | 569.2 | 508.0 | 454.8 | 408.7 | 370.5 | 341.8 | 323.7 | 304.4 | 288.7 |
| 67.5° | 756.6 | 681.7 | 610.0 | 543.5 | 484.6 | 433.9 | 392.7 | 361.6 | 340.7 | 322.3 | 303.8 |
| 70° | 803.1 | 721.0 | 647.8 | 574.1 | 512.3 | 458.9 | 414.1 | 379.3 | 355.5 | 339.6 | 318.5 |
| 72.5° | 841.7 | 755.4 | 675.9 | 602.1 | 535.6 | 479.8 | 432.1 | 395.3 | 369.0 | 354.9 | 332.9 |
| 75° | 872.0 | 783.4 | 699.9 | 624.1 | 553.4 | 497.0 | 449.0 | 410.8 | 383.9 | 366.1 | 344.2 |
| 77.5° | 890.7 | 803.2 | 718.7 | 643.5 | 573.2 | 514.4 | 465.6 | 426.3 | 397.6 | 377.3 | 355.5 |
| 80° | 911.9 | 822.3 | 740.3 | 661.8 | 590.0 | 528.0 | 479.0 | 439.2 | 409.8 | 388.5 | 366.4 |
| 82.5° | 933.1 | 838.6 | 756.4 | 675.3 | 602.3 | 538.0 | 489.2 | 449.9 | 420.8 | 399.3 | 376.8 |
| 85° | 943.5 | 848.4 | 766.6 | 683.7 | 610.3 | 544.7 | 496.7 | 458.5 | 430.6 | 409.8 | 386.5 |
| 87.5° | 943.9 | 854.8 | 773.8 | 689.5 | 616.0 | 549.4 | 502.6 | 466.0 | 439.7 | 420.1 | 395.9 |
| 90° | 935.5 | 848.8 | 769.4 | 686.1 | 614.0 | 549.1 | 504.8 | 471.0 | 447.2 | 428.7 | 402.9 |
| 92.5° | 943.9 | 854.8 | 773.8 | 689.5 | 616.0 | 549.4 | 502.6 | 466.0 | 439.7 | 420.1 | 395.9 |
| 95° | 943.5 | 848.4 | 766.6 | 683.7 | 610.3 | 544.7 | 496.7 | 458.5 | 430.6 | 409.8 | 386.5 |
| 97.5° | 933.1 | 838.6 | 756.4 | 675.3 | 602.3 | 538.0 | 489.2 | 449.9 | 420.8 | 399.3 | 376.8 |
| 100° | 911.9 | 822.3 | 740.3 | 661.8 | 590.0 | 528.0 | 479.0 | 439.2 | 409.8 | 388.5 | 366.4 |
| 102.5° | 890.7 | 803.2 | 718.7 | 643.5 | 573.2 | 514.4 | 465.6 | 426.3 | 397.6 | 377.3 | 355.5 |
| 105° | 872.0 | 783.4 | 699.9 | 624.1 | 553.4 | 497.0 | 449.0 | 410.8 | 383.9 | 366.1 | 344.2 |
| 107.5° | 841.7 | 755.4 | 675.9 | 602.1 | 535.6 | 479.8 | 432.1 | 395.3 | 369.0 | 354.9 | 332.9 |
| 110° | 803.1 | 721.0 | 647.8 | 574.1 | 512.3 | 458.9 | 414.1 | 379.3 | 355.5 | 339.6 | 318.5 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° | 52.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 756.6 | 681.7 | 610.0 | 543.5 | 484.6 | 433.9 | 392.7 | 361.6 | 340.7 | 322.3 | 303.8 |
| 115° | 708.5 | 637.0 | 569.2 | 508.0 | 454.8 | 408.7 | 370.5 | 341.8 | 323.7 | 304.4 | 288.7 |
| 117.5° | 663.0 | 589.7 | 525.9 | 470.4 | 421.3 | 379.7 | 347.3 | 323.2 | 304.5 | 286.4 | 272.9 |
| 120° | 607.2 | 542.6 | 483.1 | 430.3 | 387.6 | 351.4 | 322.3 | 302.2 | 284.5 | 269.7 | 258.3 |
| 122.5° | 549.3 | 492.5 | 441.6 | 396.2 | 355.0 | 320.9 | 298.7 | 280.4 | 264.7 | 252.5 | 243.0 |
| 125° | 491.6 | 443.6 | 400.9 | 360.7 | 326.9 | 299.3 | 276.2 | 258.6 | 246.4 | 235.6 | 227.0 |
| 127.5° | 436.3 | 397.3 | 360.3 | 327.9 | 300.9 | 278.1 | 259.1 | 243.4 | 230.7 | 218.0 | 209.4 |
| 130° | 384.4 | 352.9 | 322.5 | 298.1 | 276.2 | 257.6 | 241.7 | 228.4 | 216.5 | 205.4 | 195.2 |
| 132.5° | 337.8 | 311.8 | 290.2 | 269.7 | 252.8 | 237.6 | 224.8 | 213.3 | 202.3 | 192.9 | 183.7 |
| 135° | 296.2 | 276.6 | 260.0 | 244.2 | 230.9 | 218.7 | 208.0 | 197.6 | 189.0 | 180.4 | 172.1 |
| 137.5° | 259.7 | 245.7 | 232.2 | 221.1 | 210.8 | 200.5 | 191.1 | 183.4 | 175.6 | 168.1 | 160.2 |
| 140° | 228.4 | 217.9 | 208.0 | 199.2 | 190.7 | 182.9 | 176.1 | 169.2 | 162.5 | 155.4 | 147.9 |
| 142.5° | 201.6 | 193.6 | 185.9 | 179.3 | 173.1 | 167.1 | 161.4 | 155.5 | 149.1 | 142.3 | 135.5 |
| 145° | 176.9 | 170.9 | 166.3 | 161.6 | 156.9 | 152.2 | 147.0 | 141.2 | 135.1 | 129.0 | 122.9 |
| 147.5° | 155.5 | 151.7 | 148.4 | 144.9 | 141.2 | 136.8 | 131.7 | 126.4 | 121.0 | 115.5 | 110.5 |
| 150° | 136.6 | 134.2 | 131.8 | 128.8 | 125.4 | 121.3 | 116.8 | 111.7 | 106.7 | 102.4 | 97.8 |
| 152.5° | 120.0 | 118.6 | 116.5 | 114.0 | 111.1 | 107.5 | 104.1 | 99.8 | 95.4 | 90.6 | 86.1 |
| 155° | 106.5 | 105.2 | 103.3 | 101.0 | 98.8 | 96.4 | 93.5 | 90.1 | 86.5 | 82.7 | 79.1 |
| 157.5° | 95.1 | 94.4 | 93.3 | 91.8 | 90.0 | 87.5 | 84.7 | 81.7 | 78.6 | 75.5 | 72.4 |
| 160° | 88.2 | 86.9 | 85.2 | 83.3 | 81.2 | 78.9 | 76.3 | 73.6 | 70.9 | 68.2 | 65.4 |
| 162.5° | 79.2 | 77.8 | 75.9 | 73.9 | 71.8 | 69.6 | 67.3 | 65.0 | 62.5 | 60.1 | 57.6 |
| 165° | 67.9 | 66.4 | 64.8 | 63.1 | 61.2 | 59.3 | 57.3 | 55.3 | 53.2 | 51.4 | 49.7 |
| 167.5° | 55.0 | 53.7 | 52.4 | 51.0 | 49.7 | 48.6 | 47.4 | 46.2 | 44.8 | 43.4 | 41.9 |
| 170° | 43.1 | 42.5 | 41.9 | 41.1 | 40.3 | 39.4 | 38.4 | 37.1 | 35.7 | 34.3 | 32.8 |
| 172.5° | 31.8 | 31.2 | 30.5 | 29.8 | 29.0 | 28.1 | 27.2 | 26.2 | 25.2 | 24.3 | 23.5 |
| 175° | 19.2 | 18.9 | 18.7 | 18.3 | 18.0 | 17.6 | 17.1 | 16.7 | 16.2 | 15.6 | 15.1 |
| 177.5° | 8.9 | 8.9 | 8.8 | 8.7 | 8.6 | 8.5 | 8.3 | 8.2 | 8.0 | 7.8 | 7.6 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77.5° | 80° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 2.5° | 7.4 | 7.2 | 7.0 | 6.7 | 6.5 | 6.2 | 5.9 | 5.6 | 5.3 | 5.0 | 4.7 |
| 5° | 14.5 | 13.8 | 13.2 | 12.7 | 12.2 | 11.7 | 11.1 | 10.5 | 10.0 | 9.4 | 8.7 |
| 7.5° | 22.6 | 21.6 | 20.6 | 19.6 | 18.5 | 17.4 | 16.3 | 15.4 | 14.5 | 13.6 | 12.7 |
| 10° | 31.2 | 29.7 | 28.1 | 26.7 | 25.3 | 23.8 | 22.3 | 20.7 | 19.1 | 17.9 | 16.7 |
| 12.5° | 40.1 | 38.2 | 36.2 | 34.1 | 32.0 | 30.1 | 28.2 | 26.3 | 24.3 | 22.3 | 20.6 |
| 15° | 47.8 | 45.8 | 44.1 | 41.4 | 39.0 | 36.6 | 34.1 | 31.7 | 29.4 | 27.0 | 24.5 |
| 17.5° | 55.4 | 52.8 | 50.5 | 48.1 | 45.5 | 42.8 | 40.0 | 37.2 | 34.4 | 31.7 | 28.8 |
| 20° | 62.6 | 59.8 | 57.1 | 54.3 | 51.5 | 48.6 | 45.5 | 42.5 | 39.4 | 36.3 | 33.1 |
| 22.5° | 69.3 | 66.3 | 63.3 | 60.4 | 57.3 | 54.0 | 50.7 | 47.5 | 44.2 | 40.8 | 37.3 |
| 25° | 75.4 | 72.1 | 68.8 | 65.8 | 63.6 | 61.1 | 58.3 | 55.3 | 52.4 | 49.4 | 46.0 |
| 27.5° | 82.6 | 80.0 | 77.8 | 75.5 | 73.4 | 71.1 | 68.2 | 65.2 | 62.0 | 58.8 | 55.3 |
| 30° | 94.1 | 90.5 | 87.5 | 85.1 | 82.7 | 80.4 | 77.8 | 74.7 | 71.7 | 68.1 | 64.5 |
| 32.5° | 105.4 | 101.1 | 97.3 | 94.3 | 91.8 | 89.4 | 86.9 | 84.0 | 80.7 | 77.2 | 73.5 |
| 35° | 117.2 | 111.8 | 107.3 | 103.4 | 100.6 | 98.1 | 95.6 | 93.2 | 89.8 | 86.3 | 82.4 |
| 37.5° | 128.9 | 122.8 | 117.0 | 112.7 | 109.1 | 106.5 | 104.1 | 101.5 | 98.5 | 95.2 | 91.2 |
| 40° | 140.7 | 133.6 | 127.4 | 121.6 | 117.6 | 114.5 | 112.3 | 109.8 | 107.0 | 103.8 | 99.9 |
| 42.5° | 152.1 | 144.6 | 137.3 | 131.0 | 126.0 | 122.2 | 120.1 | 117.8 | 115.3 | 112.2 | 108.5 |
| 45° | 163.6 | 155.0 | 147.3 | 140.3 | 133.9 | 130.2 | 127.6 | 125.7 | 123.3 | 120.5 | 117.1 |
| 47.5° | 174.7 | 165.7 | 157.1 | 149.7 | 142.6 | 139.0 | 138.2 | 138.4 | 138.3 | 137.1 | 134.2 |
| 50° | 185.6 | 176.6 | 170.5 | 166.0 | 162.1 | 159.1 | 157.5 | 157.2 | 157.5 | 157.3 | 153.5 |
| 52.5° | 202.3 | 196.4 | 191.0 | 186.5 | 182.8 | 179.5 | 177.4 | 176.2 | 176.3 | 177.9 | 172.8 |
| 55° | 220.0 | 214.8 | 210.3 | 206.1 | 202.9 | 200.0 | 197.3 | 195.3 | 194.5 | 197.8 | 192.4 |
| 57.5° | 236.2 | 231.8 | 228.6 | 225.1 | 222.5 | 220.1 | 217.4 | 214.4 | 212.7 | 216.9 | 212.2 |
| 60° | 250.7 | 247.4 | 245.2 | 243.1 | 241.3 | 239.7 | 237.4 | 233.8 | 231.6 | 235.8 | 232.1 |
| 62.5° | 265.0 | 261.7 | 260.8 | 260.3 | 259.5 | 259.0 | 257.4 | 253.5 | 250.5 | 254.3 | 252.3 |
| 65° | 278.6 | 274.8 | 275.4 | 276.6 | 277.1 | 277.7 | 276.9 | 273.2 | 269.5 | 272.6 | 272.5 |
| 67.5° | 291.3 | 286.6 | 289.0 | 292.0 | 294.1 | 295.9 | 296.1 | 292.9 | 288.5 | 290.6 | 292.9 |
| 70° | 303.6 | 298.6 | 301.8 | 305.9 | 307.9 | 308.9 | 308.4 | 305.0 | 300.4 | 299.7 | 298.4 |
| 72.5° | 315.0 | 306.7 | 306.8 | 310.0 | 312.5 | 313.9 | 313.9 | 312.1 | 309.2 | 307.5 | 302.2 |
| 75° | 323.6 | 312.9 | 311.2 | 314.1 | 317.0 | 318.8 | 319.3 | 318.7 | 317.7 | 316.1 | 306.3 |
| 77.5° | 331.7 | 318.9 | 315.8 | 318.3 | 321.5 | 323.8 | 324.6 | 324.9 | 326.0 | 325.4 | 310.6 |
| 80° | 339.2 | 324.8 | 320.6 | 322.5 | 326.0 | 328.8 | 329.7 | 330.8 | 334.2 | 335.1 | 315.0 |
| 82.5° | 346.2 | 330.5 | 325.5 | 326.8 | 330.4 | 333.7 | 334.8 | 336.5 | 342.1 | 345.1 | 321.0 |
| 85° | 352.6 | 336.1 | 330.5 | 331.1 | 334.9 | 338.7 | 339.8 | 341.9 | 349.9 | 355.8 | 324.5 |
| 87.5° | 358.8 | 341.6 | 335.6 | 335.5 | 339.4 | 343.7 | 344.9 | 347.6 | 357.9 | 365.5 | 328.0 |
| 90° | 363.9 | 346.7 | 340.7 | 340.1 | 344.0 | 348.7 | 350.0 | 353.3 | 365.9 | 375.1 | 331.5 |
| 92.5° | 358.8 | 341.6 | 335.6 | 335.5 | 339.4 | 343.7 | 344.9 | 347.6 | 357.9 | 365.5 | 328.0 |
| 95° | 352.6 | 336.1 | 330.5 | 331.1 | 334.9 | 338.7 | 339.8 | 341.9 | 349.9 | 355.8 | 324.5 |
| 97.5° | 346.2 | 330.5 | 325.5 | 326.8 | 330.4 | 333.7 | 334.8 | 336.5 | 342.1 | 345.1 | 321.0 |
| 100° | 339.2 | 324.8 | 320.6 | 322.5 | 326.0 | 328.8 | 329.7 | 330.8 | 334.2 | 335.1 | 315.0 |
| 102.5° | 331.7 | 318.9 | 315.8 | 318.3 | 321.5 | 323.8 | 324.6 | 324.9 | 326.0 | 325.4 | 310.6 |
| 105° | 323.6 | 312.9 | 311.2 | 314.1 | 317.0 | 318.8 | 319.3 | 318.7 | 317.7 | 316.1 | 306.3 |
| 107.5° | 315.0 | 306.7 | 306.8 | 310.0 | 312.5 | 313.9 | 313.9 | 312.1 | 309.2 | 307.5 | 302.2 |
| 110° | 303.6 | 298.6 | 301.8 | 305.9 | 307.9 | 308.9 | 308.4 | 305.0 | 300.4 | 299.7 | 298.4 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77.5° | 80° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 291.3 | 286.6 | 289.0 | 292.0 | 294.1 | 295.9 | 296.1 | 292.9 | 288.5 | 290.6 | 292.9 |
| 115° | 278.6 | 274.8 | 275.4 | 276.6 | 277.1 | 277.7 | 276.9 | 273.2 | 269.5 | 272.6 | 272.5 |
| 117.5° | 265.0 | 261.7 | 260.8 | 260.3 | 259.5 | 259.0 | 257.4 | 253.5 | 250.5 | 254.3 | 252.3 |
| 120° | 250.7 | 247.4 | 245.2 | 243.1 | 241.3 | 239.7 | 237.4 | 233.8 | 231.6 | 235.8 | 232.1 |
| 122.5° | 236.2 | 231.8 | 228.6 | 225.1 | 222.5 | 220.1 | 217.4 | 214.4 | 212.7 | 216.9 | 212.2 |
| 125° | 220.0 | 214.8 | 210.3 | 206.1 | 202.9 | 200.0 | 197.3 | 195.3 | 194.5 | 197.8 | 192.4 |
| 127.5° | 202.3 | 196.4 | 191.0 | 186.5 | 182.8 | 179.5 | 177.4 | 176.2 | 176.3 | 177.9 | 172.8 |
| 130° | 185.6 | 176.6 | 170.5 | 166.0 | 162.1 | 159.1 | 157.5 | 157.2 | 157.5 | 157.3 | 153.5 |
| 132.5° | 174.7 | 165.7 | 157.1 | 149.7 | 142.6 | 139.0 | 138.2 | 138.4 | 138.3 | 137.1 | 134.2 |
| 135° | 163.6 | 155.0 | 147.3 | 140.3 | 133.9 | 130.2 | 127.6 | 125.7 | 123.3 | 120.5 | 117.1 |
| 137.5° | 152.1 | 144.6 | 137.3 | 131.0 | 126.0 | 122.2 | 120.1 | 117.8 | 115.3 | 112.2 | 108.5 |
| 140° | 140.7 | 133.6 | 127.4 | 121.6 | 117.6 | 114.5 | 112.3 | 109.8 | 107.0 | 103.8 | 99.9 |
| 142.5° | 128.9 | 122.8 | 117.0 | 112.7 | 109.1 | 106.5 | 104.1 | 101.5 | 98.5 | 95.2 | 91.2 |
| 145° | 117.2 | 111.8 | 107.3 | 103.4 | 100.6 | 98.1 | 95.6 | 93.2 | 89.8 | 86.3 | 82.4 |
| 147.5° | 105.4 | 101.1 | 97.3 | 94.3 | 91.8 | 89.4 | 86.9 | 84.0 | 80.7 | 77.2 | 73.5 |
| 150° | 94.1 | 90.5 | 87.5 | 85.1 | 82.7 | 80.4 | 77.8 | 74.7 | 71.7 | 68.1 | 64.5 |
| 152.5° | 82.6 | 80.0 | 77.8 | 75.5 | 73.4 | 71.1 | 68.2 | 65.2 | 62.0 | 58.8 | 55.3 |
| 155° | 75.4 | 72.1 | 68.8 | 65.8 | 63.6 | 61.1 | 58.3 | 55.3 | 52.4 | 49.4 | 46.0 |
| 157.5° | 69.3 | 66.3 | 63.3 | 60.4 | 57.3 | 54.0 | 50.7 | 47.5 | 44.2 | 40.8 | 37.3 |
| 160° | 62.6 | 59.8 | 57.1 | 54.3 | 51.5 | 48.6 | 45.5 | 42.5 | 39.4 | 36.3 | 33.1 |
| 162.5° | 55.4 | 52.8 | 50.5 | 48.1 | 45.5 | 42.8 | 40.0 | 37.2 | 34.4 | 31.7 | 28.8 |
| 165° | 47.8 | 45.8 | 44.1 | 41.4 | 39.0 | 36.6 | 34.1 | 31.7 | 29.4 | 27.0 | 24.5 |
| 167.5° | 40.1 | 38.2 | 36.2 | 34.1 | 32.0 | 30.1 | 28.2 | 26.3 | 24.3 | 22.3 | 20.6 |
| 170° | 31.2 | 29.7 | 28.1 | 26.7 | 25.3 | 23.8 | 22.3 | 20.7 | 19.1 | 17.9 | 16.7 |
| 172.5° | 22.6 | 21.6 | 20.6 | 19.6 | 18.5 | 17.4 | 16.3 | 15.4 | 14.5 | 13.6 | 12.7 |
| 175° | 14.5 | 13.8 | 13.2 | 12.7 | 12.2 | 11.7 | 11.1 | 10.5 | 10.0 | 9.4 | 8.7 |
| 177.5° | 7.4 | 7.2 | 7.0 | 6.7 | 6.5 | 6.2 | 5.9 | 5.6 | 5.3 | 5.0 | 4.7 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 82.5° | 85° | 87.5° | 90° | 92.5° | 95° | 97.5° | 100° | 102.5° | 105° | 107.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|------|--------|
| 0° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 2.5° | 4.4 | 4.1 | 3.8 | 3.4 | 3.4 | 3.3 | 3.3 | 3.2 | 3.2 | 3.1 | 3.1 |
| 5° | 8.1 | 7.5 | 6.8 | 6.1 | 6.0 | 6.0 | 5.9 | 5.8 | 5.6 | 5.5 | 5.4 |
| 7.5° | 11.8 | 10.8 | 9.8 | 8.8 | 8.7 | 8.6 | 8.4 | 8.2 | 8.1 | 7.9 | 7.7 |
| 10° | 15.4 | 14.2 | 12.9 | 11.5 | 11.4 | 11.2 | 11.0 | 10.7 | 10.5 | 10.2 | 10.2 |
| 12.5° | 19.0 | 17.5 | 15.9 | 14.3 | 14.0 | 13.8 | 13.5 | 13.2 | 12.9 | 12.9 | 12.8 |
| 15° | 22.6 | 20.8 | 18.9 | 17.0 | 16.7 | 16.3 | 16.0 | 15.6 | 15.6 | 15.6 | 15.5 |
| 17.5° | 26.2 | 24.1 | 21.9 | 19.7 | 19.3 | 18.9 | 18.5 | 18.4 | 18.4 | 18.3 | 18.2 |
| 20° | 29.8 | 27.3 | 24.9 | 22.4 | 21.9 | 21.5 | 21.0 | 21.1 | 21.1 | 21.1 | 20.8 |
| 22.5° | 33.7 | 30.6 | 27.9 | 25.1 | 24.6 | 24.0 | 23.7 | 23.8 | 23.9 | 23.7 | 23.5 |
| 25° | 42.4 | 39.1 | 36.3 | 33.5 | 33.1 | 32.6 | 32.4 | 32.3 | 31.8 | 30.8 | 29.7 |
| 27.5° | 51.4 | 47.6 | 44.8 | 41.9 | 41.7 | 41.4 | 41.5 | 41.6 | 40.8 | 39.4 | 37.8 |
| 30° | 60.4 | 56.1 | 53.3 | 50.3 | 50.4 | 50.4 | 50.8 | 51.1 | 49.5 | 47.8 | 45.2 |
| 32.5° | 69.3 | 64.8 | 61.7 | 58.7 | 59.1 | 59.5 | 60.2 | 60.0 | 58.0 | 55.5 | 52.1 |
| 35° | 78.1 | 73.4 | 70.1 | 67.0 | 67.9 | 68.6 | 69.6 | 68.8 | 66.4 | 62.6 | 58.4 |
| 37.5° | 86.8 | 82.0 | 78.4 | 75.4 | 76.7 | 77.8 | 79.1 | 77.5 | 74.7 | 69.2 | 63.8 |
| 40° | 95.5 | 90.5 | 86.7 | 83.8 | 85.5 | 87.1 | 88.7 | 86.0 | 81.7 | 75.5 | 68.5 |
| 42.5° | 104.1 | 99.0 | 95.0 | 92.2 | 94.4 | 96.4 | 98.3 | 94.3 | 88.6 | 81.5 | 72.8 |
| 45° | 112.6 | 107.5 | 103.3 | 100.6 | 103.3 | 105.8 | 107.0 | 102.6 | 95.1 | 86.2 | 76.5 |
| 47.5° | 127.9 | 120.4 | 113.3 | 108.1 | 108.4 | 109.2 | 108.8 | 104.3 | 96.4 | 87.4 | 78.1 |
| 50° | 144.6 | 134.0 | 123.5 | 115.6 | 113.2 | 112.2 | 109.8 | 104.2 | 95.8 | 86.6 | 77.8 |
| 52.5° | 161.8 | 147.9 | 134.0 | 123.1 | 117.9 | 114.9 | 110.7 | 103.9 | 95.3 | 86.0 | 77.9 |
| 55° | 179.5 | 162.2 | 144.5 | 130.6 | 122.4 | 117.3 | 111.4 | 103.7 | 94.9 | 85.7 | 78.4 |
| 57.5° | 197.7 | 176.9 | 155.2 | 138.0 | 126.8 | 119.6 | 112.1 | 103.6 | 94.7 | 85.9 | 79.3 |
| 60° | 216.2 | 191.8 | 166.1 | 145.5 | 131.0 | 121.6 | 112.7 | 103.6 | 94.7 | 86.7 | 80.9 |
| 62.5° | 235.1 | 206.9 | 177.0 | 153.0 | 135.1 | 123.5 | 113.2 | 103.7 | 95.0 | 87.7 | 83.3 |
| 65° | 254.2 | 222.3 | 188.0 | 160.5 | 139.0 | 125.2 | 113.6 | 103.8 | 95.4 | 89.0 | 86.2 |
| 67.5° | 273.6 | 237.8 | 199.1 | 168.0 | 142.9 | 126.9 | 114.1 | 104.1 | 96.1 | 90.6 | 89.4 |
| 70° | 275.4 | 237.8 | 198.6 | 166.8 | 141.9 | 125.8 | 113.0 | 103.2 | 95.5 | 90.6 | 90.5 |
| 72.5° | 275.8 | 237.2 | 197.9 | 165.5 | 140.9 | 124.8 | 111.8 | 102.2 | 94.7 | 90.0 | 90.0 |
| 75° | 275.9 | 236.3 | 198.3 | 164.3 | 140.0 | 123.8 | 110.8 | 101.2 | 93.9 | 89.4 | 89.5 |
| 77.5° | 275.9 | 235.3 | 197.1 | 163.0 | 139.1 | 122.8 | 109.8 | 100.4 | 93.3 | 88.8 | 88.8 |
| 80° | 275.7 | 235.3 | 195.9 | 161.8 | 138.3 | 122.0 | 108.8 | 99.6 | 92.7 | 88.3 | 88.1 |
| 82.5° | 276.4 | 233.4 | 194.7 | 160.5 | 137.6 | 121.2 | 108.0 | 98.9 | 92.3 | 87.8 | 87.3 |
| 85° | 275.1 | 231.4 | 193.6 | 159.3 | 136.9 | 120.4 | 107.2 | 98.3 | 91.9 | 87.4 | 86.4 |
| 87.5° | 273.9 | 229.5 | 192.4 | 158.0 | 136.2 | 119.7 | 106.5 | 97.8 | 91.6 | 87.0 | 85.6 |
| 90° | 272.6 | 227.6 | 191.2 | 156.8 | 135.6 | 119.1 | 105.9 | 97.3 | 91.3 | 86.7 | 84.7 |
| 92.5° | 273.9 | 229.5 | 192.4 | 158.0 | 136.2 | 119.7 | 106.5 | 97.8 | 91.6 | 87.0 | 85.6 |
| 95° | 275.1 | 231.4 | 193.6 | 159.3 | 136.9 | 120.4 | 107.2 | 98.3 | 91.9 | 87.4 | 86.4 |
| 97.5° | 276.4 | 233.4 | 194.7 | 160.5 | 137.6 | 121.2 | 108.0 | 98.9 | 92.3 | 87.8 | 87.3 |
| 100° | 275.7 | 235.3 | 195.9 | 161.8 | 138.3 | 122.0 | 108.8 | 99.6 | 92.7 | 88.3 | 88.1 |
| 102.5° | 275.9 | 235.3 | 197.1 | 163.0 | 139.1 | 122.8 | 109.8 | 100.4 | 93.3 | 88.8 | 88.8 |
| 105° | 275.9 | 236.3 | 198.3 | 164.3 | 140.0 | 123.8 | 110.8 | 101.2 | 93.9 | 89.4 | 89.5 |
| 107.5° | 275.8 | 237.2 | 197.9 | 165.5 | 140.9 | 124.8 | 111.8 | 102.2 | 94.7 | 90.0 | 90.0 |
| 110° | 275.4 | 237.8 | 198.6 | 166.8 | 141.9 | 125.8 | 113.0 | 103.2 | 95.5 | 90.6 | 90.5 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 82.5° | 85° | 87.5° | 90° | 92.5° | 95° | 97.5° | 100° | 102.5° | 105° | 107.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|------|--------|
| 112.5° | 273.6 | 237.8 | 199.1 | 168.0 | 142.9 | 126.9 | 114.1 | 104.1 | 96.1 | 90.6 | 89.4 |
| 115° | 254.2 | 222.3 | 188.0 | 160.5 | 139.0 | 125.2 | 113.6 | 103.8 | 95.4 | 89.0 | 86.2 |
| 117.5° | 235.1 | 206.9 | 177.0 | 153.0 | 135.1 | 123.5 | 113.2 | 103.7 | 95.0 | 87.7 | 83.3 |
| 120° | 216.2 | 191.8 | 166.1 | 145.5 | 131.0 | 121.6 | 112.7 | 103.6 | 94.7 | 86.7 | 80.9 |
| 122.5° | 197.7 | 176.9 | 155.2 | 138.0 | 126.8 | 119.6 | 112.1 | 103.6 | 94.7 | 85.9 | 79.3 |
| 125° | 179.5 | 162.2 | 144.5 | 130.6 | 122.4 | 117.3 | 111.4 | 103.7 | 94.9 | 85.7 | 78.4 |
| 127.5° | 161.8 | 147.9 | 134.0 | 123.1 | 117.9 | 114.9 | 110.7 | 103.9 | 95.3 | 86.0 | 77.9 |
| 130° | 144.6 | 134.0 | 123.5 | 115.6 | 113.2 | 112.2 | 109.8 | 104.2 | 95.8 | 86.6 | 77.8 |
| 132.5° | 127.9 | 120.4 | 113.3 | 108.1 | 108.4 | 109.2 | 108.8 | 104.3 | 96.4 | 87.4 | 78.1 |
| 135° | 112.6 | 107.5 | 103.3 | 100.6 | 103.3 | 105.8 | 107.0 | 102.6 | 95.1 | 86.2 | 76.5 |
| 137.5° | 104.1 | 99.0 | 95.0 | 92.2 | 94.4 | 96.4 | 98.3 | 94.3 | 88.6 | 81.5 | 72.8 |
| 140° | 95.5 | 90.5 | 86.7 | 83.8 | 85.5 | 87.1 | 88.7 | 86.0 | 81.7 | 75.5 | 68.5 |
| 142.5° | 86.8 | 82.0 | 78.4 | 75.4 | 76.7 | 77.8 | 79.1 | 77.5 | 74.7 | 69.2 | 63.8 |
| 145° | 78.1 | 73.4 | 70.1 | 67.0 | 67.9 | 68.6 | 69.6 | 68.8 | 66.4 | 62.6 | 58.4 |
| 147.5° | 69.3 | 64.8 | 61.7 | 58.7 | 59.1 | 59.5 | 60.2 | 60.0 | 58.0 | 55.5 | 52.1 |
| 150° | 60.4 | 56.1 | 53.3 | 50.3 | 50.4 | 50.4 | 50.8 | 51.1 | 49.5 | 47.8 | 45.2 |
| 152.5° | 51.4 | 47.6 | 44.8 | 41.9 | 41.7 | 41.4 | 41.5 | 41.6 | 40.8 | 39.4 | 37.8 |
| 155° | 42.4 | 39.1 | 36.3 | 33.5 | 33.1 | 32.6 | 32.4 | 32.3 | 31.8 | 30.8 | 29.7 |
| 157.5° | 33.7 | 30.6 | 27.9 | 25.1 | 24.6 | 24.0 | 23.7 | 23.8 | 23.9 | 23.7 | 23.5 |
| 160° | 29.8 | 27.3 | 24.9 | 22.4 | 21.9 | 21.5 | 21.0 | 21.1 | 21.1 | 21.1 | 20.8 |
| 162.5° | 26.2 | 24.1 | 21.9 | 19.7 | 19.3 | 18.9 | 18.5 | 18.4 | 18.4 | 18.3 | 18.2 |
| 165° | 22.6 | 20.8 | 18.9 | 17.0 | 16.7 | 16.3 | 16.0 | 15.6 | 15.6 | 15.6 | 15.5 |
| 167.5° | 19.0 | 17.5 | 15.9 | 14.3 | 14.0 | 13.8 | 13.5 | 13.2 | 12.9 | 12.9 | 12.8 |
| 170° | 15.4 | 14.2 | 12.9 | 11.5 | 11.4 | 11.2 | 11.0 | 10.7 | 10.5 | 10.2 | 10.2 |
| 172.5° | 11.8 | 10.8 | 9.8 | 8.8 | 8.7 | 8.6 | 8.4 | 8.2 | 8.1 | 7.9 | 7.7 |
| 175° | 8.1 | 7.5 | 6.8 | 6.1 | 6.0 | 6.0 | 5.9 | 5.8 | 5.6 | 5.5 | 5.4 |
| 177.5° | 4.4 | 4.1 | 3.8 | 3.4 | 3.4 | 3.3 | 3.3 | 3.2 | 3.2 | 3.1 | 3.1 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 110° | 112.5° | 115° | 117.5° | 120° | 122.5° | 125° | 127.5° | 130° | 132.5° | 135° |
|--------|------|--------|-------|--------|-------|--------|------|--------|------|--------|------|
| 0° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 2.5° | 3.0 | 2.9 | 2.8 | 2.8 | 2.7 | 2.6 | 2.5 | 2.4 | 2.3 | 2.2 | 2.1 |
| 5° | 5.2 | 5.1 | 4.9 | 4.8 | 4.6 | 4.5 | 4.4 | 4.2 | 4.1 | 3.9 | 3.8 |
| 7.5° | 7.5 | 7.4 | 7.3 | 7.1 | 7.0 | 6.8 | 6.6 | 6.5 | 6.3 | 6.0 | 5.8 |
| 10° | 10.1 | 9.9 | 9.8 | 9.6 | 9.5 | 9.2 | 8.9 | 8.7 | 8.4 | 8.1 | 7.7 |
| 12.5° | 12.7 | 12.6 | 12.4 | 12.1 | 11.8 | 11.5 | 11.2 | 10.9 | 10.5 | 10.1 | 9.7 |
| 15° | 15.4 | 15.1 | 14.9 | 14.6 | 14.2 | 13.9 | 13.5 | 13.1 | 12.6 | 12.2 | 11.6 |
| 17.5° | 18.0 | 17.7 | 17.4 | 17.0 | 16.6 | 16.2 | 15.8 | 15.2 | 14.6 | 14.0 | 13.3 |
| 20° | 20.6 | 20.2 | 19.9 | 19.5 | 19.1 | 18.5 | 17.8 | 17.1 | 16.4 | 15.8 | 15.0 |
| 22.5° | 23.2 | 22.8 | 22.4 | 21.9 | 21.2 | 20.5 | 19.8 | 19.1 | 18.3 | 17.5 | 16.8 |
| 25° | 28.4 | 27.0 | 25.6 | 24.1 | 23.3 | 22.6 | 21.8 | 21.0 | 20.3 | 19.6 | 18.8 |
| 27.5° | 35.8 | 33.9 | 31.6 | 29.5 | 27.6 | 25.9 | 24.3 | 23.1 | 22.4 | 21.5 | 20.4 |
| 30° | 42.6 | 39.7 | 36.7 | 34.1 | 31.7 | 29.7 | 28.0 | 26.4 | 24.8 | 23.3 | 22.0 |
| 32.5° | 48.4 | 44.6 | 41.1 | 37.9 | 35.2 | 33.0 | 30.8 | 28.8 | 26.9 | 25.3 | 23.8 |
| 35° | 53.5 | 48.8 | 44.7 | 41.1 | 38.2 | 35.4 | 32.9 | 30.7 | 28.8 | 27.0 | 25.1 |
| 37.5° | 57.8 | 52.5 | 47.7 | 43.9 | 40.5 | 37.3 | 34.6 | 32.4 | 30.2 | 28.1 | 26.2 |
| 40° | 61.6 | 55.7 | 50.5 | 46.2 | 42.3 | 38.8 | 36.2 | 33.7 | 31.3 | 29.3 | 27.6 |
| 42.5° | 65.1 | 58.2 | 52.9 | 48.0 | 43.7 | 40.4 | 37.6 | 34.9 | 32.5 | 30.6 | 28.8 |
| 45° | 68.2 | 60.9 | 54.8 | 49.5 | 45.2 | 41.8 | 38.7 | 36.0 | 33.9 | 31.9 | 30.1 |
| 47.5° | 69.9 | 63.0 | 56.5 | 50.7 | 46.7 | 43.1 | 39.8 | 37.4 | 35.2 | 33.2 | 31.4 |
| 50° | 70.1 | 64.3 | 58.8 | 53.7 | 49.2 | 44.5 | 41.2 | 38.7 | 36.5 | 34.6 | 32.7 |
| 52.5° | 71.4 | 66.4 | 62.1 | 58.3 | 54.3 | 49.8 | 45.5 | 41.5 | 38.0 | 36.1 | 33.9 |
| 55° | 73.3 | 69.6 | 66.5 | 63.6 | 59.8 | 55.3 | 50.7 | 46.3 | 42.4 | 38.7 | 35.3 |
| 57.5° | 75.8 | 73.6 | 71.7 | 69.3 | 65.7 | 60.6 | 55.6 | 50.7 | 46.3 | 41.9 | 38.3 |
| 60° | 78.9 | 78.3 | 77.4 | 75.3 | 71.4 | 65.8 | 60.1 | 54.8 | 49.5 | 44.9 | 40.8 |
| 62.5° | 82.6 | 83.6 | 83.7 | 81.7 | 76.9 | 70.8 | 64.4 | 58.3 | 52.4 | 47.5 | 42.8 |
| 65° | 87.1 | 89.4 | 90.4 | 88.3 | 82.4 | 75.5 | 68.4 | 61.5 | 55.1 | 49.7 | 44.3 |
| 67.5° | 92.0 | 95.5 | 96.8 | 94.7 | 87.8 | 80.0 | 72.1 | 64.4 | 57.7 | 51.5 | 45.7 |
| 70° | 94.3 | 99.1 | 101.7 | 100.0 | 92.9 | 84.4 | 75.6 | 67.1 | 60.0 | 53.1 | 46.9 |
| 72.5° | 93.7 | 98.3 | 101.0 | 99.3 | 93.6 | 86.2 | 77.9 | 69.6 | 62.1 | 54.6 | 47.9 |
| 75° | 92.9 | 97.5 | 100.5 | 99.1 | 94.4 | 87.4 | 79.2 | 71.2 | 63.7 | 56.1 | 49.3 |
| 77.5° | 91.8 | 96.7 | 100.1 | 99.4 | 95.6 | 88.9 | 80.9 | 73.2 | 65.4 | 57.8 | 50.8 |
| 80° | 90.6 | 95.9 | 99.9 | 100.0 | 97.3 | 90.7 | 82.9 | 75.4 | 67.4 | 59.6 | 52.5 |
| 82.5° | 89.2 | 95.1 | 99.8 | 101.0 | 99.3 | 92.8 | 85.3 | 77.8 | 69.7 | 61.7 | 54.2 |
| 85° | 87.8 | 94.1 | 99.6 | 102.1 | 101.6 | 95.2 | 87.9 | 80.5 | 72.2 | 64.0 | 56.2 |
| 87.5° | 86.3 | 93.1 | 99.5 | 103.3 | 104.0 | 97.8 | 90.8 | 83.5 | 75.0 | 66.6 | 58.4 |
| 90° | 84.7 | 92.0 | 99.2 | 104.5 | 106.5 | 100.6 | 93.9 | 86.7 | 78.1 | 69.5 | 60.9 |
| 92.5° | 86.3 | 93.1 | 99.5 | 103.3 | 104.0 | 97.8 | 90.8 | 83.5 | 75.0 | 66.6 | 58.4 |
| 95° | 87.8 | 94.1 | 99.6 | 102.1 | 101.6 | 95.2 | 87.9 | 80.5 | 72.2 | 64.0 | 56.2 |
| 97.5° | 89.2 | 95.1 | 99.8 | 101.0 | 99.3 | 92.8 | 85.3 | 77.8 | 69.7 | 61.7 | 54.2 |
| 100° | 90.6 | 95.9 | 99.9 | 100.0 | 97.3 | 90.7 | 82.9 | 75.4 | 67.4 | 59.6 | 52.5 |
| 102.5° | 91.8 | 96.7 | 100.1 | 99.4 | 95.6 | 88.9 | 80.9 | 73.2 | 65.4 | 57.8 | 50.8 |
| 105° | 92.9 | 97.5 | 100.5 | 99.1 | 94.4 | 87.4 | 79.2 | 71.2 | 63.7 | 56.1 | 49.3 |
| 107.5° | 93.7 | 98.3 | 101.0 | 99.3 | 93.6 | 86.2 | 77.9 | 69.6 | 62.1 | 54.6 | 47.9 |
| 110° | 94.3 | 99.1 | 101.7 | 100.0 | 92.9 | 84.4 | 75.6 | 67.1 | 60.0 | 53.1 | 46.9 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 110° | 112.5° | 115° | 117.5° | 120° | 122.5° | 125° | 127.5° | 130° | 132.5° | 135° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 112.5° | 92.0 | 95.5 | 96.8 | 94.7 | 87.8 | 80.0 | 72.1 | 64.4 | 57.7 | 51.5 | 45.7 |
| 115° | 87.1 | 89.4 | 90.4 | 88.3 | 82.4 | 75.5 | 68.4 | 61.5 | 55.1 | 49.7 | 44.3 |
| 117.5° | 82.6 | 83.6 | 83.7 | 81.7 | 76.9 | 70.8 | 64.4 | 58.3 | 52.4 | 47.5 | 42.8 |
| 120° | 78.9 | 78.3 | 77.4 | 75.3 | 71.4 | 65.8 | 60.1 | 54.8 | 49.5 | 44.9 | 40.8 |
| 122.5° | 75.8 | 73.6 | 71.7 | 69.3 | 65.7 | 60.6 | 55.6 | 50.7 | 46.3 | 41.9 | 38.3 |
| 125° | 73.3 | 69.6 | 66.5 | 63.6 | 59.8 | 55.3 | 50.7 | 46.3 | 42.4 | 38.7 | 35.3 |
| 127.5° | 71.4 | 66.4 | 62.1 | 58.3 | 54.3 | 49.8 | 45.5 | 41.5 | 38.0 | 36.1 | 33.9 |
| 130° | 70.1 | 64.3 | 58.8 | 53.7 | 49.2 | 44.5 | 41.2 | 38.7 | 36.5 | 34.6 | 32.7 |
| 132.5° | 69.9 | 63.0 | 56.5 | 50.7 | 46.7 | 43.1 | 39.8 | 37.4 | 35.2 | 33.2 | 31.4 |
| 135° | 68.2 | 60.9 | 54.8 | 49.5 | 45.2 | 41.8 | 38.7 | 36.0 | 33.9 | 31.9 | 30.1 |
| 137.5° | 65.1 | 58.2 | 52.9 | 48.0 | 43.7 | 40.4 | 37.6 | 34.9 | 32.5 | 30.6 | 28.8 |
| 140° | 61.6 | 55.7 | 50.5 | 46.2 | 42.3 | 38.8 | 36.2 | 33.7 | 31.3 | 29.3 | 27.6 |
| 142.5° | 57.8 | 52.5 | 47.7 | 43.9 | 40.5 | 37.3 | 34.6 | 32.4 | 30.2 | 28.1 | 26.2 |
| 145° | 53.5 | 48.8 | 44.7 | 41.1 | 38.2 | 35.4 | 32.9 | 30.7 | 28.8 | 27.0 | 25.1 |
| 147.5° | 48.4 | 44.6 | 41.1 | 37.9 | 35.2 | 33.0 | 30.8 | 28.8 | 26.9 | 25.3 | 23.8 |
| 150° | 42.6 | 39.7 | 36.7 | 34.1 | 31.7 | 29.7 | 28.0 | 26.4 | 24.8 | 23.3 | 22.0 |
| 152.5° | 35.8 | 33.9 | 31.6 | 29.5 | 27.6 | 25.9 | 24.3 | 23.1 | 22.4 | 21.5 | 20.4 |
| 155° | 28.4 | 27.0 | 25.6 | 24.1 | 23.3 | 22.6 | 21.8 | 21.0 | 20.3 | 19.6 | 18.8 |
| 157.5° | 23.2 | 22.8 | 22.4 | 21.9 | 21.2 | 20.5 | 19.8 | 19.1 | 18.3 | 17.5 | 16.8 |
| 160° | 20.6 | 20.2 | 19.9 | 19.5 | 19.1 | 18.5 | 17.8 | 17.1 | 16.4 | 15.8 | 15.0 |
| 162.5° | 18.0 | 17.7 | 17.4 | 17.0 | 16.6 | 16.2 | 15.8 | 15.2 | 14.6 | 14.0 | 13.3 |
| 165° | 15.4 | 15.1 | 14.9 | 14.6 | 14.2 | 13.9 | 13.5 | 13.1 | 12.6 | 12.2 | 11.6 |
| 167.5° | 12.7 | 12.6 | 12.4 | 12.1 | 11.8 | 11.5 | 11.2 | 10.9 | 10.5 | 10.1 | 9.7 |
| 170° | 10.1 | 9.9 | 9.8 | 9.6 | 9.5 | 9.2 | 8.9 | 8.7 | 8.4 | 8.1 | 7.7 |
| 172.5° | 7.5 | 7.4 | 7.3 | 7.1 | 7.0 | 6.8 | 6.6 | 6.5 | 6.3 | 6.0 | 5.8 |
| 175° | 5.2 | 5.1 | 4.9 | 4.8 | 4.6 | 4.5 | 4.4 | 4.2 | 4.1 | 3.9 | 3.8 |
| 177.5° | 3.0 | 2.9 | 2.8 | 2.8 | 2.7 | 2.6 | 2.5 | 2.4 | 2.3 | 2.2 | 2.1 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 137.5° | 140° | 142.5° | 145° | 147.5° | 150° | 152.5° | 155° | 157.5° | 160° | 162.5° |
|--------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| 0° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 2.5° | 2.0 | 1.9 | 1.8 | 1.7 | 1.5 | 1.4 | 1.3 | 1.2 | 1.1 | 0.9 | 0.8 |
| 5° | 3.6 | 3.5 | 3.3 | 3.1 | 2.9 | 2.7 | 2.5 | 2.3 | 2.1 | 1.9 | 1.6 |
| 7.5° | 5.5 | 5.3 | 5.0 | 4.7 | 4.4 | 4.1 | 3.8 | 3.5 | 3.1 | 2.8 | 2.5 |
| 10° | 7.4 | 7.0 | 6.7 | 6.3 | 5.9 | 5.5 | 5.1 | 4.6 | 4.2 | 3.8 | 3.3 |
| 12.5° | 9.3 | 8.8 | 8.4 | 7.9 | 7.4 | 6.8 | 6.3 | 5.7 | 5.2 | 4.6 | 4.1 |
| 15° | 11.0 | 10.5 | 9.9 | 9.3 | 8.7 | 8.0 | 7.4 | 6.8 | 6.1 | 5.5 | 4.8 |
| 17.5° | 12.7 | 12.0 | 11.3 | 10.7 | 9.9 | 9.2 | 8.5 | 7.8 | 7.1 | 6.3 | 5.6 |
| 20° | 14.3 | 13.6 | 12.9 | 12.2 | 11.4 | 10.6 | 9.8 | 9.0 | 8.1 | 7.2 | 6.3 |
| 22.5° | 16.1 | 15.4 | 14.6 | 13.7 | 12.7 | 11.8 | 10.8 | 9.9 | 8.9 | 8.0 | 7.0 |
| 25° | 17.9 | 16.9 | 15.9 | 14.9 | 13.9 | 12.9 | 11.8 | 10.8 | 9.7 | 8.6 | 7.5 |
| 27.5° | 19.4 | 18.3 | 17.3 | 16.2 | 15.0 | 13.8 | 12.6 | 11.4 | 10.2 | 9.1 | 8.0 |
| 30° | 20.9 | 19.7 | 18.4 | 17.0 | 15.7 | 14.5 | 13.4 | 12.2 | 11.0 | 9.8 | 8.6 |
| 32.5° | 22.2 | 20.6 | 19.3 | 18.0 | 16.8 | 15.5 | 14.3 | 13.0 | 11.7 | 10.4 | 9.2 |
| 35° | 23.3 | 21.9 | 20.5 | 19.1 | 17.8 | 16.5 | 15.1 | 13.7 | 12.3 | 11.0 | 9.7 |
| 37.5° | 24.7 | 23.1 | 21.7 | 20.3 | 18.7 | 17.1 | 15.6 | 14.2 | 12.9 | 11.5 | 10.1 |
| 40° | 25.9 | 24.4 | 22.7 | 21.0 | 19.3 | 17.7 | 16.3 | 14.7 | 13.2 | 11.6 | 10.2 |
| 42.5° | 27.2 | 25.4 | 23.6 | 21.9 | 20.2 | 18.5 | 16.6 | 14.9 | 13.5 | 12.0 | 10.6 |
| 45° | 28.3 | 26.4 | 24.6 | 22.8 | 20.9 | 19.0 | 17.3 | 15.5 | 14.0 | 12.5 | 11.1 |
| 47.5° | 29.5 | 27.5 | 25.6 | 23.6 | 21.7 | 19.8 | 18.0 | 16.3 | 14.5 | 12.7 | 10.9 |
| 50° | 30.6 | 28.6 | 26.6 | 24.6 | 22.6 | 20.6 | 18.7 | 16.6 | 14.5 | 12.8 | 11.2 |
| 52.5° | 31.8 | 29.7 | 27.6 | 25.4 | 23.3 | 21.1 | 18.9 | 16.9 | 15.1 | 13.3 | 11.6 |
| 55° | 33.1 | 30.8 | 28.5 | 26.2 | 23.9 | 21.5 | 19.5 | 17.4 | 15.5 | 13.6 | 11.9 |
| 57.5° | 35.0 | 31.9 | 29.3 | 26.9 | 24.4 | 22.1 | 19.9 | 17.8 | 15.7 | 13.8 | 11.8 |
| 60° | 36.9 | 33.4 | 30.3 | 27.5 | 25.0 | 22.6 | 20.3 | 17.9 | 15.7 | 13.6 | 11.7 |
| 62.5° | 38.4 | 34.6 | 31.2 | 28.3 | 25.6 | 23.0 | 20.2 | 17.8 | 15.6 | 13.4 | 11.5 |
| 65° | 39.6 | 35.6 | 32.0 | 28.8 | 25.9 | 22.9 | 20.3 | 17.8 | 15.3 | 13.1 | 11.1 |
| 67.5° | 40.6 | 36.4 | 32.6 | 29.1 | 25.8 | 22.8 | 20.2 | 17.3 | 15.0 | 12.7 | 10.4 |
| 70° | 41.6 | 37.1 | 33.1 | 29.3 | 25.8 | 22.7 | 19.5 | 16.7 | 14.6 | 12.0 | 9.8 |
| 72.5° | 42.6 | 37.8 | 33.4 | 29.4 | 25.8 | 22.3 | 18.7 | 16.2 | 13.5 | 11.2 | 9.3 |
| 75° | 43.6 | 38.5 | 33.8 | 29.7 | 25.8 | 21.7 | 18.4 | 15.5 | 12.7 | 10.4 | 8.4 |
| 77.5° | 44.8 | 39.3 | 34.2 | 29.8 | 25.7 | 21.2 | 18.0 | 14.8 | 11.9 | 9.5 | 7.5 |
| 80° | 46.1 | 40.0 | 34.5 | 29.7 | 25.0 | 20.7 | 17.4 | 14.3 | 11.2 | 8.8 | 6.5 |
| 82.5° | 47.4 | 40.7 | 34.8 | 29.6 | 24.4 | 20.1 | 16.5 | 13.4 | 10.7 | 8.1 | 5.5 |
| 85° | 49.0 | 41.6 | 35.3 | 29.6 | 24.1 | 19.6 | 15.8 | 12.8 | 10.3 | 7.9 | 5.4 |
| 87.5° | 50.8 | 42.8 | 36.0 | 29.8 | 24.1 | 19.2 | 15.4 | 12.5 | 10.3 | 8.1 | 5.8 |
| 90° | 52.9 | 44.3 | 37.0 | 30.4 | 24.5 | 19.2 | 15.2 | 12.6 | 10.6 | 8.6 | 6.6 |
| 92.5° | 50.8 | 42.8 | 36.0 | 29.8 | 24.1 | 19.2 | 15.4 | 12.5 | 10.3 | 8.1 | 5.8 |
| 95° | 49.0 | 41.6 | 35.3 | 29.6 | 24.1 | 19.6 | 15.8 | 12.8 | 10.3 | 7.9 | 5.4 |
| 97.5° | 47.4 | 40.7 | 34.8 | 29.6 | 24.4 | 20.1 | 16.5 | 13.4 | 10.7 | 8.1 | 5.5 |
| 100° | 46.1 | 40.0 | 34.5 | 29.7 | 25.0 | 20.7 | 17.4 | 14.3 | 11.2 | 8.8 | 6.5 |
| 102.5° | 44.8 | 39.3 | 34.2 | 29.8 | 25.7 | 21.2 | 18.0 | 14.8 | 11.9 | 9.5 | 7.5 |
| 105° | 43.6 | 38.5 | 33.8 | 29.7 | 25.8 | 21.7 | 18.4 | 15.5 | 12.7 | 10.4 | 8.4 |
| 107.5° | 42.6 | 37.8 | 33.4 | 29.4 | 25.8 | 22.3 | 18.7 | 16.2 | 13.5 | 11.2 | 9.3 |
| 110° | 41.6 | 37.1 | 33.1 | 29.3 | 25.8 | 22.7 | 19.5 | 16.7 | 14.6 | 12.0 | 9.8 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 137.5° | 140° | 142.5° | 145° | 147.5° | 150° | 152.5° | 155° | 157.5° | 160° | 162.5° |
|--------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| 112.5° | 40.6 | 36.4 | 32.6 | 29.1 | 25.8 | 22.8 | 20.2 | 17.3 | 15.0 | 12.7 | 10.4 |
| 115° | 39.6 | 35.6 | 32.0 | 28.8 | 25.9 | 22.9 | 20.3 | 17.8 | 15.3 | 13.1 | 11.1 |
| 117.5° | 38.4 | 34.6 | 31.2 | 28.3 | 25.6 | 23.0 | 20.2 | 17.8 | 15.6 | 13.4 | 11.5 |
| 120° | 36.9 | 33.4 | 30.3 | 27.5 | 25.0 | 22.6 | 20.3 | 17.9 | 15.7 | 13.6 | 11.7 |
| 122.5° | 35.0 | 31.9 | 29.3 | 26.9 | 24.4 | 22.1 | 19.9 | 17.8 | 15.7 | 13.8 | 11.8 |
| 125° | 33.1 | 30.8 | 28.5 | 26.2 | 23.9 | 21.5 | 19.5 | 17.4 | 15.5 | 13.6 | 11.9 |
| 127.5° | 31.8 | 29.7 | 27.6 | 25.4 | 23.3 | 21.1 | 18.9 | 16.9 | 15.1 | 13.3 | 11.6 |
| 130° | 30.6 | 28.6 | 26.6 | 24.6 | 22.6 | 20.6 | 18.7 | 16.6 | 14.5 | 12.8 | 11.2 |
| 132.5° | 29.5 | 27.5 | 25.6 | 23.6 | 21.7 | 19.8 | 18.0 | 16.3 | 14.5 | 12.7 | 10.9 |
| 135° | 28.3 | 26.4 | 24.6 | 22.8 | 20.9 | 19.0 | 17.3 | 15.5 | 14.0 | 12.5 | 11.1 |
| 137.5° | 27.2 | 25.4 | 23.6 | 21.9 | 20.2 | 18.5 | 16.6 | 14.9 | 13.5 | 12.0 | 10.6 |
| 140° | 25.9 | 24.4 | 22.7 | 21.0 | 19.3 | 17.7 | 16.3 | 14.7 | 13.2 | 11.6 | 10.2 |
| 142.5° | 24.7 | 23.1 | 21.7 | 20.3 | 18.7 | 17.1 | 15.6 | 14.2 | 12.9 | 11.5 | 10.1 |
| 145° | 23.3 | 21.9 | 20.5 | 19.1 | 17.8 | 16.5 | 15.1 | 13.7 | 12.3 | 11.0 | 9.7 |
| 147.5° | 22.2 | 20.6 | 19.3 | 18.0 | 16.8 | 15.5 | 14.3 | 13.0 | 11.7 | 10.4 | 9.2 |
| 150° | 20.9 | 19.7 | 18.4 | 17.0 | 15.7 | 14.5 | 13.4 | 12.2 | 11.0 | 9.8 | 8.6 |
| 152.5° | 19.4 | 18.3 | 17.3 | 16.2 | 15.0 | 13.8 | 12.6 | 11.4 | 10.2 | 9.1 | 8.0 |
| 155° | 17.9 | 16.9 | 15.9 | 14.9 | 13.9 | 12.9 | 11.8 | 10.8 | 9.7 | 8.6 | 7.5 |
| 157.5° | 16.1 | 15.4 | 14.6 | 13.7 | 12.7 | 11.8 | 10.8 | 9.9 | 8.9 | 8.0 | 7.0 |
| 160° | 14.3 | 13.6 | 12.9 | 12.2 | 11.4 | 10.6 | 9.8 | 9.0 | 8.1 | 7.2 | 6.3 |
| 162.5° | 12.7 | 12.0 | 11.3 | 10.7 | 9.9 | 9.2 | 8.5 | 7.8 | 7.1 | 6.3 | 5.6 |
| 165° | 11.0 | 10.5 | 9.9 | 9.3 | 8.7 | 8.0 | 7.4 | 6.8 | 6.1 | 5.5 | 4.8 |
| 167.5° | 9.3 | 8.8 | 8.4 | 7.9 | 7.4 | 6.8 | 6.3 | 5.7 | 5.2 | 4.6 | 4.1 |
| 170° | 7.4 | 7.0 | 6.7 | 6.3 | 5.9 | 5.5 | 5.1 | 4.6 | 4.2 | 3.8 | 3.3 |
| 172.5° | 5.5 | 5.3 | 5.0 | 4.7 | 4.4 | 4.1 | 3.8 | 3.5 | 3.1 | 2.8 | 2.5 |
| 175° | 3.6 | 3.5 | 3.3 | 3.1 | 2.9 | 2.7 | 2.5 | 2.3 | 2.1 | 1.9 | 1.6 |
| 177.5° | 2.0 | 1.9 | 1.8 | 1.7 | 1.5 | 1.4 | 1.3 | 1.2 | 1.1 | 0.9 | 0.8 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 165° | 167.5° | 170° | 172.5° | 175° | 177.5° | 180° | 182.5° | 185° | 187.5° | 190° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 0° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 2.5° | 0.7 | 0.6 | 0.5 | 0.4 | 0.2 | 0.1 | 0.0 | 0.1 | 0.2 | 0.4 | 0.5 |
| 5° | 1.4 | 1.2 | 0.9 | 0.7 | 0.5 | 0.2 | 0.0 | 0.2 | 0.5 | 0.7 | 0.9 |
| 7.5° | 2.1 | 1.8 | 1.4 | 1.1 | 0.7 | 0.4 | 0.0 | 0.4 | 0.7 | 1.1 | 1.4 |
| 10° | 2.8 | 2.4 | 1.9 | 1.4 | 1.0 | 0.5 | 0.0 | 0.5 | 1.0 | 1.4 | 1.9 |
| 12.5° | 3.5 | 2.9 | 2.3 | 1.8 | 1.2 | 0.6 | 0.0 | 0.6 | 1.2 | 1.8 | 2.3 |
| 15° | 4.1 | 3.4 | 2.8 | 2.1 | 1.4 | 0.7 | 0.0 | 0.7 | 1.4 | 2.1 | 2.8 |
| 17.5° | 4.8 | 4.0 | 3.2 | 2.4 | 1.6 | 0.8 | 0.0 | 0.8 | 1.6 | 2.4 | 3.2 |
| 20° | 5.4 | 4.5 | 3.6 | 2.7 | 1.8 | 0.9 | 0.0 | 0.9 | 1.8 | 2.7 | 3.6 |
| 22.5° | 6.0 | 5.0 | 4.0 | 3.0 | 2.0 | 1.0 | 0.0 | 1.0 | 2.0 | 3.0 | 4.0 |
| 25° | 6.4 | 5.3 | 4.3 | 3.2 | 2.1 | 1.1 | 0.0 | 1.1 | 2.1 | 3.2 | 4.3 |
| 27.5° | 6.8 | 5.7 | 4.6 | 3.4 | 2.3 | 1.1 | 0.0 | 1.1 | 2.3 | 3.4 | 4.6 |
| 30° | 7.4 | 6.1 | 4.9 | 3.7 | 2.5 | 1.2 | 0.0 | 1.2 | 2.5 | 3.7 | 4.9 |
| 32.5° | 7.9 | 6.7 | 5.5 | 4.3 | 3.1 | 1.9 | 0.7 | 1.9 | 3.1 | 4.3 | 5.5 |
| 35° | 8.4 | 7.1 | 5.8 | 4.6 | 3.3 | 2.0 | 0.7 | 2.0 | 3.3 | 4.6 | 5.8 |
| 37.5° | 8.7 | 7.3 | 5.9 | 4.6 | 3.3 | 2.0 | 0.7 | 2.0 | 3.3 | 4.6 | 5.9 |
| 40° | 8.8 | 7.5 | 6.1 | 4.8 | 3.4 | 2.1 | 0.7 | 2.1 | 3.4 | 4.8 | 6.1 |
| 42.5° | 9.2 | 7.8 | 6.4 | 4.9 | 3.5 | 2.1 | 0.7 | 2.1 | 3.5 | 4.9 | 6.4 |
| 45° | 9.5 | 7.9 | 6.4 | 4.9 | 3.5 | 2.1 | 0.7 | 2.1 | 3.5 | 4.9 | 6.4 |
| 47.5° | 9.4 | 7.9 | 6.5 | 5.0 | 3.6 | 2.1 | 0.7 | 2.1 | 3.6 | 5.0 | 6.5 |
| 50° | 9.7 | 8.2 | 6.7 | 5.2 | 3.7 | 2.2 | 0.7 | 2.2 | 3.7 | 5.2 | 6.7 |
| 52.5° | 10.0 | 8.4 | 6.8 | 5.3 | 3.7 | 2.2 | 0.7 | 2.2 | 3.7 | 5.3 | 6.8 |
| 55° | 10.2 | 8.5 | 6.8 | 5.2 | 3.7 | 2.2 | 0.7 | 2.2 | 3.7 | 5.2 | 6.8 |
| 57.5° | 10.0 | 8.3 | 6.7 | 5.2 | 3.7 | 2.2 | 0.7 | 2.2 | 3.7 | 5.2 | 6.7 |
| 60° | 10.0 | 8.4 | 6.7 | 5.0 | 3.5 | 2.1 | 0.7 | 2.1 | 3.5 | 5.0 | 6.7 |
| 62.5° | 9.7 | 7.9 | 6.2 | 4.7 | 3.3 | 2.0 | 0.7 | 2.0 | 3.3 | 4.7 | 6.2 |
| 65° | 9.1 | 7.3 | 5.7 | 4.3 | 3.0 | 1.8 | 0.7 | 1.8 | 3.0 | 4.3 | 5.7 |
| 67.5° | 8.4 | 6.7 | 5.2 | 4.0 | 2.8 | 1.8 | 0.7 | 1.8 | 2.8 | 4.0 | 5.2 |
| 70° | 7.8 | 6.3 | 5.0 | 3.9 | 2.8 | 1.7 | 0.7 | 1.7 | 2.8 | 3.9 | 5.0 |
| 72.5° | 7.3 | 5.8 | 4.6 | 3.4 | 2.3 | 1.4 | 0.7 | 1.4 | 2.3 | 3.4 | 4.6 |
| 75° | 6.7 | 5.1 | 3.8 | 2.7 | 1.9 | 1.3 | 0.7 | 1.3 | 1.9 | 2.7 | 3.8 |
| 77.5° | 5.7 | 4.6 | 3.3 | 2.0 | 0.7 | 0.1 | 0.0 | 0.1 | 0.7 | 2.0 | 3.3 |
| 80° | 4.7 | 3.5 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| 82.5° | 3.5 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 3.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 3.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 3.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 3.5 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 4.7 | 3.5 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| 102.5° | 5.7 | 4.6 | 3.3 | 2.0 | 0.7 | 0.1 | 0.0 | 0.1 | 0.7 | 2.0 | 3.3 |
| 105° | 6.7 | 5.1 | 3.8 | 2.7 | 1.9 | 1.3 | 0.7 | 1.3 | 1.9 | 2.7 | 3.8 |
| 107.5° | 7.3 | 5.8 | 4.6 | 3.4 | 2.3 | 1.4 | 0.7 | 1.4 | 2.3 | 3.4 | 4.6 |
| 110° | 7.8 | 6.3 | 5.0 | 3.9 | 2.8 | 1.7 | 0.7 | 1.7 | 2.8 | 3.9 | 5.0 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 165° | 167.5° | 170° | 172.5° | 175° | 177.5° | 180° | 182.5° | 185° | 187.5° | 190° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 112.5° | 8.4 | 6.7 | 5.2 | 4.0 | 2.8 | 1.8 | 0.7 | 1.8 | 2.8 | 4.0 | 5.2 |
| 115° | 9.1 | 7.3 | 5.7 | 4.3 | 3.0 | 1.8 | 0.7 | 1.8 | 3.0 | 4.3 | 5.7 |
| 117.5° | 9.7 | 7.9 | 6.2 | 4.7 | 3.3 | 2.0 | 0.7 | 2.0 | 3.3 | 4.7 | 6.2 |
| 120° | 10.0 | 8.4 | 6.7 | 5.0 | 3.5 | 2.1 | 0.7 | 2.1 | 3.5 | 5.0 | 6.7 |
| 122.5° | 10.0 | 8.3 | 6.7 | 5.2 | 3.7 | 2.2 | 0.7 | 2.2 | 3.7 | 5.2 | 6.7 |
| 125° | 10.2 | 8.5 | 6.8 | 5.2 | 3.7 | 2.2 | 0.7 | 2.2 | 3.7 | 5.2 | 6.8 |
| 127.5° | 10.0 | 8.4 | 6.8 | 5.3 | 3.7 | 2.2 | 0.7 | 2.2 | 3.7 | 5.3 | 6.8 |
| 130° | 9.7 | 8.2 | 6.7 | 5.2 | 3.7 | 2.2 | 0.7 | 2.2 | 3.7 | 5.2 | 6.7 |
| 132.5° | 9.4 | 7.9 | 6.5 | 5.0 | 3.6 | 2.1 | 0.7 | 2.1 | 3.6 | 5.0 | 6.5 |
| 135° | 9.5 | 7.9 | 6.4 | 4.9 | 3.5 | 2.1 | 0.7 | 2.1 | 3.5 | 4.9 | 6.4 |
| 137.5° | 9.2 | 7.8 | 6.4 | 4.9 | 3.5 | 2.1 | 0.7 | 2.1 | 3.5 | 4.9 | 6.4 |
| 140° | 8.8 | 7.5 | 6.1 | 4.8 | 3.4 | 2.1 | 0.7 | 2.1 | 3.4 | 4.8 | 6.1 |
| 142.5° | 8.7 | 7.3 | 5.9 | 4.6 | 3.3 | 2.0 | 0.7 | 2.0 | 3.3 | 4.6 | 5.9 |
| 145° | 8.4 | 7.1 | 5.8 | 4.6 | 3.3 | 2.0 | 0.7 | 2.0 | 3.3 | 4.6 | 5.8 |
| 147.5° | 7.9 | 6.7 | 5.5 | 4.3 | 3.1 | 1.9 | 0.7 | 1.9 | 3.1 | 4.3 | 5.5 |
| 150° | 7.4 | 6.1 | 4.9 | 3.7 | 2.5 | 1.2 | 0.0 | 1.2 | 2.5 | 3.7 | 4.9 |
| 152.5° | 6.8 | 5.7 | 4.6 | 3.4 | 2.3 | 1.1 | 0.0 | 1.1 | 2.3 | 3.4 | 4.6 |
| 155° | 6.4 | 5.3 | 4.3 | 3.2 | 2.1 | 1.1 | 0.0 | 1.1 | 2.1 | 3.2 | 4.3 |
| 157.5° | 6.0 | 5.0 | 4.0 | 3.0 | 2.0 | 1.0 | 0.0 | 1.0 | 2.0 | 3.0 | 4.0 |
| 160° | 5.4 | 4.5 | 3.6 | 2.7 | 1.8 | 0.9 | 0.0 | 0.9 | 1.8 | 2.7 | 3.6 |
| 162.5° | 4.8 | 4.0 | 3.2 | 2.4 | 1.6 | 0.8 | 0.0 | 0.8 | 1.6 | 2.4 | 3.2 |
| 165° | 4.1 | 3.4 | 2.8 | 2.1 | 1.4 | 0.7 | 0.0 | 0.7 | 1.4 | 2.1 | 2.8 |
| 167.5° | 3.5 | 2.9 | 2.3 | 1.8 | 1.2 | 0.6 | 0.0 | 0.6 | 1.2 | 1.8 | 2.3 |
| 170° | 2.8 | 2.4 | 1.9 | 1.4 | 1.0 | 0.5 | 0.0 | 0.5 | 1.0 | 1.4 | 1.9 |
| 172.5° | 2.1 | 1.8 | 1.4 | 1.1 | 0.7 | 0.4 | 0.0 | 0.4 | 0.7 | 1.1 | 1.4 |
| 175° | 1.4 | 1.2 | 0.9 | 0.7 | 0.5 | 0.2 | 0.0 | 0.2 | 0.5 | 0.7 | 0.9 |
| 177.5° | 0.7 | 0.6 | 0.5 | 0.4 | 0.2 | 0.1 | 0.0 | 0.1 | 0.2 | 0.4 | 0.5 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 192.5° | 195° | 197.5° | 200° | 202.5° | 205° | 207.5° | 210° | 212.5° | 215° | 217.5° |
|--------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| 0° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 2.5° | 0.6 | 0.7 | 0.8 | 0.9 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.7 | 1.8 |
| 5° | 1.2 | 1.4 | 1.6 | 1.9 | 2.1 | 2.3 | 2.5 | 2.7 | 2.9 | 3.1 | 3.3 |
| 7.5° | 1.8 | 2.1 | 2.5 | 2.8 | 3.1 | 3.5 | 3.8 | 4.1 | 4.4 | 4.7 | 5.0 |
| 10° | 2.4 | 2.8 | 3.3 | 3.8 | 4.2 | 4.6 | 5.1 | 5.5 | 5.9 | 6.3 | 6.7 |
| 12.5° | 2.9 | 3.5 | 4.1 | 4.6 | 5.2 | 5.7 | 6.3 | 6.8 | 7.4 | 7.9 | 8.4 |
| 15° | 3.4 | 4.1 | 4.8 | 5.5 | 6.1 | 6.8 | 7.4 | 8.0 | 8.7 | 9.3 | 9.9 |
| 17.5° | 4.0 | 4.8 | 5.6 | 6.3 | 7.1 | 7.8 | 8.5 | 9.2 | 9.9 | 10.7 | 11.3 |
| 20° | 4.5 | 5.4 | 6.3 | 7.2 | 8.1 | 9.0 | 9.8 | 10.6 | 11.4 | 12.2 | 12.9 |
| 22.5° | 5.0 | 6.0 | 7.0 | 8.0 | 8.9 | 9.9 | 10.8 | 11.8 | 12.7 | 13.7 | 14.6 |
| 25° | 5.3 | 6.4 | 7.5 | 8.6 | 9.7 | 10.8 | 11.8 | 12.9 | 13.9 | 14.9 | 15.9 |
| 27.5° | 5.7 | 6.8 | 8.0 | 9.1 | 10.2 | 11.4 | 12.6 | 13.8 | 15.0 | 16.2 | 17.3 |
| 30° | 6.1 | 7.4 | 8.6 | 9.8 | 11.0 | 12.2 | 13.4 | 14.5 | 15.7 | 17.0 | 18.4 |
| 32.5° | 6.7 | 7.9 | 9.2 | 10.4 | 11.7 | 13.0 | 14.3 | 15.5 | 16.8 | 18.0 | 19.3 |
| 35° | 7.1 | 8.4 | 9.7 | 11.0 | 12.3 | 13.7 | 15.1 | 16.5 | 17.8 | 19.1 | 20.5 |
| 37.5° | 7.3 | 8.7 | 10.1 | 11.5 | 12.9 | 14.2 | 15.6 | 17.1 | 18.7 | 20.3 | 21.7 |
| 40° | 7.5 | 8.8 | 10.2 | 11.6 | 13.2 | 14.7 | 16.3 | 17.7 | 19.3 | 21.0 | 22.7 |
| 42.5° | 7.8 | 9.2 | 10.6 | 12.0 | 13.5 | 14.9 | 16.6 | 18.5 | 20.2 | 21.9 | 23.6 |
| 45° | 7.9 | 9.5 | 11.1 | 12.5 | 14.0 | 15.5 | 17.3 | 19.0 | 20.9 | 22.8 | 24.6 |
| 47.5° | 7.9 | 9.4 | 10.9 | 12.7 | 14.5 | 16.3 | 18.0 | 19.8 | 21.7 | 23.6 | 25.6 |
| 50° | 8.2 | 9.7 | 11.2 | 12.8 | 14.5 | 16.6 | 18.7 | 20.6 | 22.6 | 24.6 | 26.6 |
| 52.5° | 8.4 | 10.0 | 11.6 | 13.3 | 15.1 | 16.9 | 18.9 | 21.1 | 23.3 | 25.4 | 27.6 |
| 55° | 8.5 | 10.2 | 11.9 | 13.6 | 15.5 | 17.4 | 19.5 | 21.5 | 23.9 | 26.2 | 28.5 |
| 57.5° | 8.3 | 10.0 | 11.8 | 13.8 | 15.7 | 17.8 | 19.9 | 22.1 | 24.4 | 26.9 | 29.3 |
| 60° | 8.4 | 10.0 | 11.7 | 13.6 | 15.7 | 17.9 | 20.3 | 22.6 | 25.0 | 27.5 | 30.3 |
| 62.5° | 7.9 | 9.7 | 11.5 | 13.4 | 15.6 | 17.8 | 20.2 | 23.0 | 25.6 | 28.3 | 31.2 |
| 65° | 7.3 | 9.1 | 11.1 | 13.1 | 15.3 | 17.8 | 20.3 | 22.9 | 25.9 | 28.8 | 32.0 |
| 67.5° | 6.7 | 8.4 | 10.4 | 12.7 | 15.0 | 17.3 | 20.2 | 22.8 | 25.8 | 29.1 | 32.6 |
| 70° | 6.3 | 7.8 | 9.8 | 12.0 | 14.6 | 16.7 | 19.5 | 22.7 | 25.8 | 29.3 | 33.1 |
| 72.5° | 5.8 | 7.3 | 9.3 | 11.2 | 13.5 | 16.2 | 18.7 | 22.3 | 25.8 | 29.4 | 33.4 |
| 75° | 5.1 | 6.7 | 8.4 | 10.4 | 12.7 | 15.5 | 18.4 | 21.7 | 25.8 | 29.7 | 33.8 |
| 77.5° | 4.6 | 5.7 | 7.5 | 9.5 | 11.9 | 14.8 | 18.0 | 21.2 | 25.7 | 29.8 | 34.2 |
| 80° | 3.5 | 4.7 | 6.5 | 8.8 | 11.2 | 14.3 | 17.4 | 20.7 | 25.0 | 29.7 | 34.5 |
| 82.5° | 2.1 | 3.5 | 5.5 | 8.1 | 10.7 | 13.4 | 16.5 | 20.1 | 24.4 | 29.6 | 34.8 |
| 85° | 0.8 | 3.0 | 5.4 | 7.9 | 10.3 | 12.8 | 15.8 | 19.6 | 24.1 | 29.6 | 35.3 |
| 87.5° | 0.3 | 3.3 | 5.8 | 8.1 | 10.3 | 12.5 | 15.4 | 19.2 | 24.1 | 29.8 | 36.0 |
| 90° | 0.0 | 4.0 | 6.6 | 8.6 | 10.6 | 12.6 | 15.2 | 19.2 | 24.5 | 30.4 | 37.0 |
| 92.5° | 0.3 | 3.3 | 5.8 | 8.1 | 10.3 | 12.5 | 15.4 | 19.2 | 24.1 | 29.8 | 36.0 |
| 95° | 0.8 | 3.0 | 5.4 | 7.9 | 10.3 | 12.8 | 15.8 | 19.6 | 24.1 | 29.6 | 35.3 |
| 97.5° | 2.1 | 3.5 | 5.5 | 8.1 | 10.7 | 13.4 | 16.5 | 20.1 | 24.4 | 29.6 | 34.8 |
| 100° | 3.5 | 4.7 | 6.5 | 8.8 | 11.2 | 14.3 | 17.4 | 20.7 | 25.0 | 29.7 | 34.5 |
| 102.5° | 4.6 | 5.7 | 7.5 | 9.5 | 11.9 | 14.8 | 18.0 | 21.2 | 25.7 | 29.8 | 34.2 |
| 105° | 5.1 | 6.7 | 8.4 | 10.4 | 12.7 | 15.5 | 18.4 | 21.7 | 25.8 | 29.7 | 33.8 |
| 107.5° | 5.8 | 7.3 | 9.3 | 11.2 | 13.5 | 16.2 | 18.7 | 22.3 | 25.8 | 29.4 | 33.4 |
| 110° | 6.3 | 7.8 | 9.8 | 12.0 | 14.6 | 16.7 | 19.5 | 22.7 | 25.8 | 29.3 | 33.1 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 192.5° | 195° | 197.5° | 200° | 202.5° | 205° | 207.5° | 210° | 212.5° | 215° | 217.5° |
|--------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| 112.5° | 6.7 | 8.4 | 10.4 | 12.7 | 15.0 | 17.3 | 20.2 | 22.8 | 25.8 | 29.1 | 32.6 |
| 115° | 7.3 | 9.1 | 11.1 | 13.1 | 15.3 | 17.8 | 20.3 | 22.9 | 25.9 | 28.8 | 32.0 |
| 117.5° | 7.9 | 9.7 | 11.5 | 13.4 | 15.6 | 17.8 | 20.2 | 23.0 | 25.6 | 28.3 | 31.2 |
| 120° | 8.4 | 10.0 | 11.7 | 13.6 | 15.7 | 17.9 | 20.3 | 22.6 | 25.0 | 27.5 | 30.3 |
| 122.5° | 8.3 | 10.0 | 11.8 | 13.8 | 15.7 | 17.8 | 19.9 | 22.1 | 24.4 | 26.9 | 29.3 |
| 125° | 8.5 | 10.2 | 11.9 | 13.6 | 15.5 | 17.4 | 19.5 | 21.5 | 23.9 | 26.2 | 28.5 |
| 127.5° | 8.4 | 10.0 | 11.6 | 13.3 | 15.1 | 16.9 | 18.9 | 21.1 | 23.3 | 25.4 | 27.6 |
| 130° | 8.2 | 9.7 | 11.2 | 12.8 | 14.5 | 16.6 | 18.7 | 20.6 | 22.6 | 24.6 | 26.6 |
| 132.5° | 7.9 | 9.4 | 10.9 | 12.7 | 14.5 | 16.3 | 18.0 | 19.8 | 21.7 | 23.6 | 25.6 |
| 135° | 7.9 | 9.5 | 11.1 | 12.5 | 14.0 | 15.5 | 17.3 | 19.0 | 20.9 | 22.8 | 24.6 |
| 137.5° | 7.8 | 9.2 | 10.6 | 12.0 | 13.5 | 14.9 | 16.6 | 18.5 | 20.2 | 21.9 | 23.6 |
| 140° | 7.5 | 8.8 | 10.2 | 11.6 | 13.2 | 14.7 | 16.3 | 17.7 | 19.3 | 21.0 | 22.7 |
| 142.5° | 7.3 | 8.7 | 10.1 | 11.5 | 12.9 | 14.2 | 15.6 | 17.1 | 18.7 | 20.3 | 21.7 |
| 145° | 7.1 | 8.4 | 9.7 | 11.0 | 12.3 | 13.7 | 15.1 | 16.5 | 17.8 | 19.1 | 20.5 |
| 147.5° | 6.7 | 7.9 | 9.2 | 10.4 | 11.7 | 13.0 | 14.3 | 15.5 | 16.8 | 18.0 | 19.3 |
| 150° | 6.1 | 7.4 | 8.6 | 9.8 | 11.0 | 12.2 | 13.4 | 14.5 | 15.7 | 17.0 | 18.4 |
| 152.5° | 5.7 | 6.8 | 8.0 | 9.1 | 10.2 | 11.4 | 12.6 | 13.8 | 15.0 | 16.2 | 17.3 |
| 155° | 5.3 | 6.4 | 7.5 | 8.6 | 9.7 | 10.8 | 11.8 | 12.9 | 13.9 | 14.9 | 15.9 |
| 157.5° | 5.0 | 6.0 | 7.0 | 8.0 | 8.9 | 9.9 | 10.8 | 11.8 | 12.7 | 13.7 | 14.6 |
| 160° | 4.5 | 5.4 | 6.3 | 7.2 | 8.1 | 9.0 | 9.8 | 10.6 | 11.4 | 12.2 | 12.9 |
| 162.5° | 4.0 | 4.8 | 5.6 | 6.3 | 7.1 | 7.8 | 8.5 | 9.2 | 9.9 | 10.7 | 11.3 |
| 165° | 3.4 | 4.1 | 4.8 | 5.5 | 6.1 | 6.8 | 7.4 | 8.0 | 8.7 | 9.3 | 9.9 |
| 167.5° | 2.9 | 3.5 | 4.1 | 4.6 | 5.2 | 5.7 | 6.3 | 6.8 | 7.4 | 7.9 | 8.4 |
| 170° | 2.4 | 2.8 | 3.3 | 3.8 | 4.2 | 4.6 | 5.1 | 5.5 | 5.9 | 6.3 | 6.7 |
| 172.5° | 1.8 | 2.1 | 2.5 | 2.8 | 3.1 | 3.5 | 3.8 | 4.1 | 4.4 | 4.7 | 5.0 |
| 175° | 1.2 | 1.4 | 1.6 | 1.9 | 2.1 | 2.3 | 2.5 | 2.7 | 2.9 | 3.1 | 3.3 |
| 177.5° | 0.6 | 0.7 | 0.8 | 0.9 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.7 | 1.8 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 220° | 222.5° | 225° | 227.5° | 230° | 232.5° | 235° | 237.5° | 240° | 242.5° | 245° |
|--------|------|--------|------|--------|------|--------|------|--------|-------|--------|-------|
| 0° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 2.5° | 1.9 | 2.0 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 | 2.8 | 2.8 |
| 5° | 3.5 | 3.6 | 3.8 | 3.9 | 4.1 | 4.2 | 4.4 | 4.5 | 4.6 | 4.8 | 4.9 |
| 7.5° | 5.3 | 5.5 | 5.8 | 6.0 | 6.3 | 6.5 | 6.6 | 6.8 | 7.0 | 7.1 | 7.3 |
| 10° | 7.0 | 7.4 | 7.7 | 8.1 | 8.4 | 8.7 | 8.9 | 9.2 | 9.5 | 9.6 | 9.8 |
| 12.5° | 8.8 | 9.3 | 9.7 | 10.1 | 10.5 | 10.9 | 11.2 | 11.5 | 11.8 | 12.1 | 12.4 |
| 15° | 10.5 | 11.0 | 11.6 | 12.2 | 12.6 | 13.1 | 13.5 | 13.9 | 14.2 | 14.6 | 14.9 |
| 17.5° | 12.0 | 12.7 | 13.3 | 14.0 | 14.6 | 15.2 | 15.8 | 16.2 | 16.6 | 17.0 | 17.4 |
| 20° | 13.6 | 14.3 | 15.0 | 15.8 | 16.4 | 17.1 | 17.8 | 18.5 | 19.1 | 19.5 | 19.9 |
| 22.5° | 15.4 | 16.1 | 16.8 | 17.5 | 18.3 | 19.1 | 19.8 | 20.5 | 21.2 | 21.9 | 22.4 |
| 25° | 16.9 | 17.9 | 18.8 | 19.6 | 20.3 | 21.0 | 21.8 | 22.6 | 23.3 | 24.1 | 25.6 |
| 27.5° | 18.3 | 19.4 | 20.4 | 21.5 | 22.4 | 23.1 | 24.3 | 25.9 | 27.6 | 29.5 | 31.6 |
| 30° | 19.7 | 20.9 | 22.0 | 23.3 | 24.8 | 26.4 | 28.0 | 29.7 | 31.7 | 34.1 | 36.7 |
| 32.5° | 20.6 | 22.2 | 23.8 | 25.3 | 26.9 | 28.8 | 30.8 | 33.0 | 35.2 | 37.9 | 41.1 |
| 35° | 21.9 | 23.3 | 25.1 | 27.0 | 28.8 | 30.7 | 32.9 | 35.4 | 38.2 | 41.1 | 44.7 |
| 37.5° | 23.1 | 24.7 | 26.2 | 28.1 | 30.2 | 32.4 | 34.6 | 37.3 | 40.5 | 43.9 | 47.7 |
| 40° | 24.4 | 25.9 | 27.6 | 29.3 | 31.3 | 33.7 | 36.2 | 38.8 | 42.3 | 46.2 | 50.5 |
| 42.5° | 25.4 | 27.2 | 28.8 | 30.6 | 32.5 | 34.9 | 37.6 | 40.4 | 43.7 | 48.0 | 52.9 |
| 45° | 26.4 | 28.3 | 30.1 | 31.9 | 33.9 | 36.0 | 38.7 | 41.8 | 45.2 | 49.5 | 54.8 |
| 47.5° | 27.5 | 29.5 | 31.4 | 33.2 | 35.2 | 37.4 | 39.8 | 43.1 | 46.7 | 50.7 | 56.5 |
| 50° | 28.6 | 30.6 | 32.7 | 34.6 | 36.5 | 38.7 | 41.2 | 44.5 | 49.2 | 53.7 | 58.8 |
| 52.5° | 29.7 | 31.8 | 33.9 | 36.1 | 38.0 | 41.5 | 45.5 | 49.8 | 54.3 | 58.3 | 62.1 |
| 55° | 30.8 | 33.1 | 35.3 | 38.7 | 42.4 | 46.3 | 50.7 | 55.3 | 59.8 | 63.6 | 66.5 |
| 57.5° | 31.9 | 35.0 | 38.3 | 41.9 | 46.3 | 50.7 | 55.6 | 60.6 | 65.7 | 69.3 | 71.7 |
| 60° | 33.4 | 36.9 | 40.8 | 44.9 | 49.5 | 54.8 | 60.1 | 65.8 | 71.4 | 75.3 | 77.4 |
| 62.5° | 34.6 | 38.4 | 42.8 | 47.5 | 52.4 | 58.3 | 64.4 | 70.8 | 76.9 | 81.7 | 83.7 |
| 65° | 35.6 | 39.6 | 44.3 | 49.7 | 55.1 | 61.5 | 68.4 | 75.5 | 82.4 | 88.3 | 90.4 |
| 67.5° | 36.4 | 40.6 | 45.7 | 51.5 | 57.7 | 64.4 | 72.1 | 80.0 | 87.8 | 94.7 | 96.8 |
| 70° | 37.1 | 41.6 | 46.9 | 53.1 | 60.0 | 67.1 | 75.6 | 84.4 | 92.9 | 100.0 | 101.7 |
| 72.5° | 37.8 | 42.6 | 47.9 | 54.6 | 62.1 | 69.6 | 77.9 | 86.2 | 93.6 | 99.3 | 101.0 |
| 75° | 38.5 | 43.6 | 49.3 | 56.1 | 63.7 | 71.2 | 79.2 | 87.4 | 94.4 | 99.1 | 100.5 |
| 77.5° | 39.3 | 44.8 | 50.8 | 57.8 | 65.4 | 73.2 | 80.9 | 88.9 | 95.6 | 99.4 | 100.1 |
| 80° | 40.0 | 46.1 | 52.5 | 59.6 | 67.4 | 75.4 | 82.9 | 90.7 | 97.3 | 100.0 | 99.9 |
| 82.5° | 40.7 | 47.4 | 54.2 | 61.7 | 69.7 | 77.8 | 85.3 | 92.8 | 99.3 | 101.0 | 99.8 |
| 85° | 41.6 | 49.0 | 56.2 | 64.0 | 72.2 | 80.5 | 87.9 | 95.2 | 101.6 | 102.1 | 99.6 |
| 87.5° | 42.8 | 50.8 | 58.4 | 66.6 | 75.0 | 83.5 | 90.8 | 97.8 | 104.0 | 103.3 | 99.5 |
| 90° | 44.3 | 52.9 | 60.9 | 69.5 | 78.1 | 86.7 | 93.9 | 100.6 | 106.5 | 104.5 | 99.2 |
| 92.5° | 42.8 | 50.8 | 58.4 | 66.6 | 75.0 | 83.5 | 90.8 | 97.8 | 104.0 | 103.3 | 99.5 |
| 95° | 41.6 | 49.0 | 56.2 | 64.0 | 72.2 | 80.5 | 87.9 | 95.2 | 101.6 | 102.1 | 99.6 |
| 97.5° | 40.7 | 47.4 | 54.2 | 61.7 | 69.7 | 77.8 | 85.3 | 92.8 | 99.3 | 101.0 | 99.8 |
| 100° | 40.0 | 46.1 | 52.5 | 59.6 | 67.4 | 75.4 | 82.9 | 90.7 | 97.3 | 100.0 | 99.9 |
| 102.5° | 39.3 | 44.8 | 50.8 | 57.8 | 65.4 | 73.2 | 80.9 | 88.9 | 95.6 | 99.4 | 100.1 |
| 105° | 38.5 | 43.6 | 49.3 | 56.1 | 63.7 | 71.2 | 79.2 | 87.4 | 94.4 | 99.1 | 100.5 |
| 107.5° | 37.8 | 42.6 | 47.9 | 54.6 | 62.1 | 69.6 | 77.9 | 86.2 | 93.6 | 99.3 | 101.0 |
| 110° | 37.1 | 41.6 | 46.9 | 53.1 | 60.0 | 67.1 | 75.6 | 84.4 | 92.9 | 100.0 | 101.7 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 220° | 222.5° | 225° | 227.5° | 230° | 232.5° | 235° | 237.5° | 240° | 242.5° | 245° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 112.5° | 36.4 | 40.6 | 45.7 | 51.5 | 57.7 | 64.4 | 72.1 | 80.0 | 87.8 | 94.7 | 96.8 |
| 115° | 35.6 | 39.6 | 44.3 | 49.7 | 55.1 | 61.5 | 68.4 | 75.5 | 82.4 | 88.3 | 90.4 |
| 117.5° | 34.6 | 38.4 | 42.8 | 47.5 | 52.4 | 58.3 | 64.4 | 70.8 | 76.9 | 81.7 | 83.7 |
| 120° | 33.4 | 36.9 | 40.8 | 44.9 | 49.5 | 54.8 | 60.1 | 65.8 | 71.4 | 75.3 | 77.4 |
| 122.5° | 31.9 | 35.0 | 38.3 | 41.9 | 46.3 | 50.7 | 55.6 | 60.6 | 65.7 | 69.3 | 71.7 |
| 125° | 30.8 | 33.1 | 35.3 | 38.7 | 42.4 | 46.3 | 50.7 | 55.3 | 59.8 | 63.6 | 66.5 |
| 127.5° | 29.7 | 31.8 | 33.9 | 36.1 | 38.0 | 41.5 | 45.5 | 49.8 | 54.3 | 58.3 | 62.1 |
| 130° | 28.6 | 30.6 | 32.7 | 34.6 | 36.5 | 38.7 | 41.2 | 44.5 | 49.2 | 53.7 | 58.8 |
| 132.5° | 27.5 | 29.5 | 31.4 | 33.2 | 35.2 | 37.4 | 39.8 | 43.1 | 46.7 | 50.7 | 56.5 |
| 135° | 26.4 | 28.3 | 30.1 | 31.9 | 33.9 | 36.0 | 38.7 | 41.8 | 45.2 | 49.5 | 54.8 |
| 137.5° | 25.4 | 27.2 | 28.8 | 30.6 | 32.5 | 34.9 | 37.6 | 40.4 | 43.7 | 48.0 | 52.9 |
| 140° | 24.4 | 25.9 | 27.6 | 29.3 | 31.3 | 33.7 | 36.2 | 38.8 | 42.3 | 46.2 | 50.5 |
| 142.5° | 23.1 | 24.7 | 26.2 | 28.1 | 30.2 | 32.4 | 34.6 | 37.3 | 40.5 | 43.9 | 47.7 |
| 145° | 21.9 | 23.3 | 25.1 | 27.0 | 28.8 | 30.7 | 32.9 | 35.4 | 38.2 | 41.1 | 44.7 |
| 147.5° | 20.6 | 22.2 | 23.8 | 25.3 | 26.9 | 28.8 | 30.8 | 33.0 | 35.2 | 37.9 | 41.1 |
| 150° | 19.7 | 20.9 | 22.0 | 23.3 | 24.8 | 26.4 | 28.0 | 29.7 | 31.7 | 34.1 | 36.7 |
| 152.5° | 18.3 | 19.4 | 20.4 | 21.5 | 22.4 | 23.1 | 24.3 | 25.9 | 27.6 | 29.5 | 31.6 |
| 155° | 16.9 | 17.9 | 18.8 | 19.6 | 20.3 | 21.0 | 21.8 | 22.6 | 23.3 | 24.1 | 25.6 |
| 157.5° | 15.4 | 16.1 | 16.8 | 17.5 | 18.3 | 19.1 | 19.8 | 20.5 | 21.2 | 21.9 | 22.4 |
| 160° | 13.6 | 14.3 | 15.0 | 15.8 | 16.4 | 17.1 | 17.8 | 18.5 | 19.1 | 19.5 | 19.9 |
| 162.5° | 12.0 | 12.7 | 13.3 | 14.0 | 14.6 | 15.2 | 15.8 | 16.2 | 16.6 | 17.0 | 17.4 |
| 165° | 10.5 | 11.0 | 11.6 | 12.2 | 12.6 | 13.1 | 13.5 | 13.9 | 14.2 | 14.6 | 14.9 |
| 167.5° | 8.8 | 9.3 | 9.7 | 10.1 | 10.5 | 10.9 | 11.2 | 11.5 | 11.8 | 12.1 | 12.4 |
| 170° | 7.0 | 7.4 | 7.7 | 8.1 | 8.4 | 8.7 | 8.9 | 9.2 | 9.5 | 9.6 | 9.8 |
| 172.5° | 5.3 | 5.5 | 5.8 | 6.0 | 6.3 | 6.5 | 6.6 | 6.8 | 7.0 | 7.1 | 7.3 |
| 175° | 3.5 | 3.6 | 3.8 | 3.9 | 4.1 | 4.2 | 4.4 | 4.5 | 4.6 | 4.8 | 4.9 |
| 177.5° | 1.9 | 2.0 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 | 2.8 | 2.8 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 252.5° | 255° | 257.5° | 260° | 262.5° | 265° | 267.5° | 270° | 272.5° |
|--------|--------|------|--------|------|--------|-------|--------|-------|--------|-------|--------|
| 0° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 2.5° | 2.9 | 3.0 | 3.1 | 3.1 | 3.2 | 3.2 | 3.3 | 3.3 | 3.4 | 3.4 | 3.8 |
| 5° | 5.1 | 5.2 | 5.4 | 5.5 | 5.6 | 5.8 | 5.9 | 6.0 | 6.0 | 6.1 | 6.8 |
| 7.5° | 7.4 | 7.5 | 7.7 | 7.9 | 8.1 | 8.2 | 8.4 | 8.6 | 8.7 | 8.8 | 9.8 |
| 10° | 9.9 | 10.1 | 10.2 | 10.2 | 10.5 | 10.7 | 11.0 | 11.2 | 11.4 | 11.5 | 12.9 |
| 12.5° | 12.6 | 12.7 | 12.8 | 12.9 | 12.9 | 13.2 | 13.5 | 13.8 | 14.0 | 14.3 | 15.9 |
| 15° | 15.1 | 15.4 | 15.5 | 15.6 | 15.6 | 15.6 | 16.0 | 16.3 | 16.7 | 17.0 | 18.9 |
| 17.5° | 17.7 | 18.0 | 18.2 | 18.3 | 18.4 | 18.4 | 18.5 | 18.9 | 19.3 | 19.7 | 21.9 |
| 20° | 20.2 | 20.6 | 20.8 | 21.1 | 21.1 | 21.1 | 21.0 | 21.5 | 21.9 | 22.4 | 24.9 |
| 22.5° | 22.8 | 23.2 | 23.5 | 23.7 | 23.9 | 23.8 | 23.7 | 24.0 | 24.6 | 25.1 | 27.9 |
| 25° | 27.0 | 28.4 | 29.7 | 30.8 | 31.8 | 32.3 | 32.4 | 32.6 | 33.1 | 33.5 | 36.3 |
| 27.5° | 33.9 | 35.8 | 37.8 | 39.4 | 40.8 | 41.6 | 41.5 | 41.4 | 41.7 | 41.9 | 44.8 |
| 30° | 39.7 | 42.6 | 45.2 | 47.8 | 49.5 | 51.1 | 50.8 | 50.4 | 50.4 | 50.3 | 53.3 |
| 32.5° | 44.6 | 48.4 | 52.1 | 55.5 | 58.0 | 60.0 | 60.2 | 59.5 | 59.1 | 58.7 | 61.7 |
| 35° | 48.8 | 53.5 | 58.4 | 62.6 | 66.4 | 68.8 | 69.6 | 68.6 | 67.9 | 67.0 | 70.1 |
| 37.5° | 52.5 | 57.8 | 63.8 | 69.2 | 74.7 | 77.5 | 79.1 | 77.8 | 76.7 | 75.4 | 78.4 |
| 40° | 55.7 | 61.6 | 68.5 | 75.5 | 81.7 | 86.0 | 88.7 | 87.1 | 85.5 | 83.8 | 86.7 |
| 42.5° | 58.2 | 65.1 | 72.8 | 81.5 | 88.6 | 94.3 | 98.3 | 96.4 | 94.4 | 92.2 | 95.0 |
| 45° | 60.9 | 68.2 | 76.5 | 86.2 | 95.1 | 102.6 | 107.0 | 105.8 | 103.3 | 100.6 | 103.3 |
| 47.5° | 63.0 | 69.9 | 78.1 | 87.4 | 96.4 | 104.3 | 108.8 | 109.2 | 108.4 | 108.1 | 113.3 |
| 50° | 64.3 | 70.1 | 77.8 | 86.6 | 95.8 | 104.2 | 109.8 | 112.2 | 113.2 | 115.6 | 123.5 |
| 52.5° | 66.4 | 71.4 | 77.9 | 86.0 | 95.3 | 103.9 | 110.7 | 114.9 | 117.9 | 123.1 | 134.0 |
| 55° | 69.6 | 73.3 | 78.4 | 85.7 | 94.9 | 103.7 | 111.4 | 117.3 | 122.4 | 130.6 | 144.5 |
| 57.5° | 73.6 | 75.8 | 79.3 | 85.9 | 94.7 | 103.6 | 112.1 | 119.6 | 126.8 | 138.0 | 155.2 |
| 60° | 78.3 | 78.9 | 80.9 | 86.7 | 94.7 | 103.6 | 112.7 | 121.6 | 131.0 | 145.5 | 166.1 |
| 62.5° | 83.6 | 82.6 | 83.3 | 87.7 | 95.0 | 103.7 | 113.2 | 123.5 | 135.1 | 153.0 | 177.0 |
| 65° | 89.4 | 87.1 | 86.2 | 89.0 | 95.4 | 103.8 | 113.6 | 125.2 | 139.0 | 160.5 | 188.0 |
| 67.5° | 95.5 | 92.0 | 89.4 | 90.6 | 96.1 | 104.1 | 114.1 | 126.9 | 142.9 | 168.0 | 199.1 |
| 70° | 99.1 | 94.3 | 90.5 | 90.6 | 95.5 | 103.2 | 113.0 | 125.8 | 141.9 | 166.8 | 198.6 |
| 72.5° | 98.3 | 93.7 | 90.0 | 90.0 | 94.7 | 102.2 | 111.8 | 124.8 | 140.9 | 165.5 | 197.9 |
| 75° | 97.5 | 92.9 | 89.5 | 89.4 | 93.9 | 101.2 | 110.8 | 123.8 | 140.0 | 164.3 | 198.3 |
| 77.5° | 96.7 | 91.8 | 88.8 | 88.8 | 93.3 | 100.4 | 109.8 | 122.8 | 139.1 | 163.0 | 197.1 |
| 80° | 95.9 | 90.6 | 88.1 | 88.3 | 92.7 | 99.6 | 108.8 | 122.0 | 138.3 | 161.8 | 195.9 |
| 82.5° | 95.1 | 89.2 | 87.3 | 87.8 | 92.3 | 98.9 | 108.0 | 121.2 | 137.6 | 160.5 | 194.7 |
| 85° | 94.1 | 87.8 | 86.4 | 87.4 | 91.9 | 98.3 | 107.2 | 120.4 | 136.9 | 159.3 | 193.6 |
| 87.5° | 93.1 | 86.3 | 85.6 | 87.0 | 91.6 | 97.8 | 106.5 | 119.7 | 136.2 | 158.0 | 192.4 |
| 90° | 92.0 | 84.7 | 84.7 | 86.7 | 91.3 | 97.3 | 105.9 | 119.1 | 135.6 | 156.8 | 191.2 |
| 92.5° | 93.1 | 86.3 | 85.6 | 87.0 | 91.6 | 97.8 | 106.5 | 119.7 | 136.2 | 158.0 | 192.4 |
| 95° | 94.1 | 87.8 | 86.4 | 87.4 | 91.9 | 98.3 | 107.2 | 120.4 | 136.9 | 159.3 | 193.6 |
| 97.5° | 95.1 | 89.2 | 87.3 | 87.8 | 92.3 | 98.9 | 108.0 | 121.2 | 137.6 | 160.5 | 194.7 |
| 100° | 95.9 | 90.6 | 88.1 | 88.3 | 92.7 | 99.6 | 108.8 | 122.0 | 138.3 | 161.8 | 195.9 |
| 102.5° | 96.7 | 91.8 | 88.8 | 88.8 | 93.3 | 100.4 | 109.8 | 122.8 | 139.1 | 163.0 | 197.1 |
| 105° | 97.5 | 92.9 | 89.5 | 89.4 | 93.9 | 101.2 | 110.8 | 123.8 | 140.0 | 164.3 | 198.3 |
| 107.5° | 98.3 | 93.7 | 90.0 | 90.0 | 94.7 | 102.2 | 111.8 | 124.8 | 140.9 | 165.5 | 197.9 |
| 110° | 99.1 | 94.3 | 90.5 | 90.6 | 95.5 | 103.2 | 113.0 | 125.8 | 141.9 | 166.8 | 198.6 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 247.5° | 250° | 252.5° | 255° | 257.5° | 260° | 262.5° | 265° | 267.5° | 270° | 272.5° |
|--------|--------|------|--------|------|--------|-------|--------|-------|--------|-------|--------|
| 112.5° | 95.5 | 92.0 | 89.4 | 90.6 | 96.1 | 104.1 | 114.1 | 126.9 | 142.9 | 168.0 | 199.1 |
| 115° | 89.4 | 87.1 | 86.2 | 89.0 | 95.4 | 103.8 | 113.6 | 125.2 | 139.0 | 160.5 | 188.0 |
| 117.5° | 83.6 | 82.6 | 83.3 | 87.7 | 95.0 | 103.7 | 113.2 | 123.5 | 135.1 | 153.0 | 177.0 |
| 120° | 78.3 | 78.9 | 80.9 | 86.7 | 94.7 | 103.6 | 112.7 | 121.6 | 131.0 | 145.5 | 166.1 |
| 122.5° | 73.6 | 75.8 | 79.3 | 85.9 | 94.7 | 103.6 | 112.1 | 119.6 | 126.8 | 138.0 | 155.2 |
| 125° | 69.6 | 73.3 | 78.4 | 85.7 | 94.9 | 103.7 | 111.4 | 117.3 | 122.4 | 130.6 | 144.5 |
| 127.5° | 66.4 | 71.4 | 77.9 | 86.0 | 95.3 | 103.9 | 110.7 | 114.9 | 117.9 | 123.1 | 134.0 |
| 130° | 64.3 | 70.1 | 77.8 | 86.6 | 95.8 | 104.2 | 109.8 | 112.2 | 113.2 | 115.6 | 123.5 |
| 132.5° | 63.0 | 69.9 | 78.1 | 87.4 | 96.4 | 104.3 | 108.8 | 109.2 | 108.4 | 108.1 | 113.3 |
| 135° | 60.9 | 68.2 | 76.5 | 86.2 | 95.1 | 102.6 | 107.0 | 105.8 | 103.3 | 100.6 | 103.3 |
| 137.5° | 58.2 | 65.1 | 72.8 | 81.5 | 88.6 | 94.3 | 98.3 | 96.4 | 94.4 | 92.2 | 95.0 |
| 140° | 55.7 | 61.6 | 68.5 | 75.5 | 81.7 | 86.0 | 88.7 | 87.1 | 85.5 | 83.8 | 86.7 |
| 142.5° | 52.5 | 57.8 | 63.8 | 69.2 | 74.7 | 77.5 | 79.1 | 77.8 | 76.7 | 75.4 | 78.4 |
| 145° | 48.8 | 53.5 | 58.4 | 62.6 | 66.4 | 68.8 | 69.6 | 68.6 | 67.9 | 67.0 | 70.1 |
| 147.5° | 44.6 | 48.4 | 52.1 | 55.5 | 58.0 | 60.0 | 60.2 | 59.5 | 59.1 | 58.7 | 61.7 |
| 150° | 39.7 | 42.6 | 45.2 | 47.8 | 49.5 | 51.1 | 50.8 | 50.4 | 50.4 | 50.3 | 53.3 |
| 152.5° | 33.9 | 35.8 | 37.8 | 39.4 | 40.8 | 41.6 | 41.5 | 41.4 | 41.7 | 41.9 | 44.8 |
| 155° | 27.0 | 28.4 | 29.7 | 30.8 | 31.8 | 32.3 | 32.4 | 32.6 | 33.1 | 33.5 | 36.3 |
| 157.5° | 22.8 | 23.2 | 23.5 | 23.7 | 23.9 | 23.8 | 23.7 | 24.0 | 24.6 | 25.1 | 27.9 |
| 160° | 20.2 | 20.6 | 20.8 | 21.1 | 21.1 | 21.1 | 21.0 | 21.5 | 21.9 | 22.4 | 24.9 |
| 162.5° | 17.7 | 18.0 | 18.2 | 18.3 | 18.4 | 18.4 | 18.5 | 18.9 | 19.3 | 19.7 | 21.9 |
| 165° | 15.1 | 15.4 | 15.5 | 15.6 | 15.6 | 15.6 | 16.0 | 16.3 | 16.7 | 17.0 | 18.9 |
| 167.5° | 12.6 | 12.7 | 12.8 | 12.9 | 12.9 | 13.2 | 13.5 | 13.8 | 14.0 | 14.3 | 15.9 |
| 170° | 9.9 | 10.1 | 10.2 | 10.2 | 10.5 | 10.7 | 11.0 | 11.2 | 11.4 | 11.5 | 12.9 |
| 172.5° | 7.4 | 7.5 | 7.7 | 7.9 | 8.1 | 8.2 | 8.4 | 8.6 | 8.7 | 8.8 | 9.8 |
| 175° | 5.1 | 5.2 | 5.4 | 5.5 | 5.6 | 5.8 | 5.9 | 6.0 | 6.0 | 6.1 | 6.8 |
| 177.5° | 2.9 | 3.0 | 3.1 | 3.1 | 3.2 | 3.2 | 3.3 | 3.3 | 3.4 | 3.4 | 3.8 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 275° | 277.5° | 280° | 282.5° | 285° | 287.5° | 290° | 292.5° | 295° | 297.5° | 300° |
|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 0° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 2.5° | 4.1 | 4.4 | 4.7 | 5.0 | 5.3 | 5.6 | 5.9 | 6.2 | 6.5 | 6.7 | 7.0 |
| 5° | 7.5 | 8.1 | 8.7 | 9.4 | 10.0 | 10.5 | 11.1 | 11.7 | 12.2 | 12.7 | 13.2 |
| 7.5° | 10.8 | 11.8 | 12.7 | 13.6 | 14.5 | 15.4 | 16.3 | 17.4 | 18.5 | 19.6 | 20.6 |
| 10° | 14.2 | 15.4 | 16.7 | 17.9 | 19.1 | 20.7 | 22.3 | 23.8 | 25.3 | 26.7 | 28.1 |
| 12.5° | 17.5 | 19.0 | 20.6 | 22.3 | 24.3 | 26.3 | 28.2 | 30.1 | 32.0 | 34.1 | 36.2 |
| 15° | 20.8 | 22.6 | 24.5 | 27.0 | 29.4 | 31.7 | 34.1 | 36.6 | 39.0 | 41.4 | 44.1 |
| 17.5° | 24.1 | 26.2 | 28.8 | 31.7 | 34.4 | 37.2 | 40.0 | 42.8 | 45.5 | 48.1 | 50.5 |
| 20° | 27.3 | 29.8 | 33.1 | 36.3 | 39.4 | 42.5 | 45.5 | 48.6 | 51.5 | 54.3 | 57.1 |
| 22.5° | 30.6 | 33.7 | 37.3 | 40.8 | 44.2 | 47.5 | 50.7 | 54.0 | 57.3 | 60.4 | 63.3 |
| 25° | 39.1 | 42.4 | 46.0 | 49.4 | 52.4 | 55.3 | 58.3 | 61.1 | 63.6 | 65.8 | 68.8 |
| 27.5° | 47.6 | 51.4 | 55.3 | 58.8 | 62.0 | 65.2 | 68.2 | 71.1 | 73.4 | 75.5 | 77.8 |
| 30° | 56.1 | 60.4 | 64.5 | 68.1 | 71.7 | 74.7 | 77.8 | 80.4 | 82.7 | 85.1 | 87.5 |
| 32.5° | 64.8 | 69.3 | 73.5 | 77.2 | 80.7 | 84.0 | 86.9 | 89.4 | 91.8 | 94.3 | 97.3 |
| 35° | 73.4 | 78.1 | 82.4 | 86.3 | 89.8 | 93.2 | 95.6 | 98.1 | 100.6 | 103.4 | 107.3 |
| 37.5° | 82.0 | 86.8 | 91.2 | 95.2 | 98.5 | 101.5 | 104.1 | 106.5 | 109.1 | 112.7 | 117.0 |
| 40° | 90.5 | 95.5 | 99.9 | 103.8 | 107.0 | 109.8 | 112.3 | 114.5 | 117.6 | 121.6 | 127.4 |
| 42.5° | 99.0 | 104.1 | 108.5 | 112.2 | 115.3 | 117.8 | 120.1 | 122.2 | 126.0 | 131.0 | 137.3 |
| 45° | 107.5 | 112.6 | 117.1 | 120.5 | 123.3 | 125.7 | 127.6 | 130.2 | 133.9 | 140.3 | 147.3 |
| 47.5° | 120.4 | 127.9 | 134.2 | 137.1 | 138.3 | 138.4 | 138.2 | 139.0 | 142.6 | 149.7 | 157.1 |
| 50° | 134.0 | 144.6 | 153.5 | 157.3 | 157.5 | 157.2 | 157.5 | 159.1 | 162.1 | 166.0 | 170.5 |
| 52.5° | 147.9 | 161.8 | 172.8 | 177.9 | 176.3 | 176.2 | 177.4 | 179.5 | 182.8 | 186.5 | 191.0 |
| 55° | 162.2 | 179.5 | 192.4 | 197.8 | 194.5 | 195.3 | 197.3 | 200.0 | 202.9 | 206.1 | 210.3 |
| 57.5° | 176.9 | 197.7 | 212.2 | 216.9 | 212.7 | 214.4 | 217.4 | 220.1 | 222.5 | 225.1 | 228.6 |
| 60° | 191.8 | 216.2 | 232.1 | 235.8 | 231.6 | 233.8 | 237.4 | 239.7 | 241.3 | 243.1 | 245.2 |
| 62.5° | 206.9 | 235.1 | 252.3 | 254.3 | 250.5 | 253.5 | 257.4 | 259.0 | 259.5 | 260.3 | 260.8 |
| 65° | 222.3 | 254.2 | 272.5 | 272.6 | 269.5 | 273.2 | 276.9 | 277.7 | 277.1 | 276.6 | 275.4 |
| 67.5° | 237.8 | 273.6 | 292.9 | 290.6 | 288.5 | 292.9 | 296.1 | 295.9 | 294.1 | 292.0 | 289.0 |
| 70° | 237.8 | 275.4 | 298.4 | 299.7 | 300.4 | 305.0 | 308.4 | 308.9 | 307.9 | 305.9 | 301.8 |
| 72.5° | 237.2 | 275.8 | 302.2 | 307.5 | 309.2 | 312.1 | 313.9 | 313.9 | 312.5 | 310.0 | 306.8 |
| 75° | 236.3 | 275.9 | 306.3 | 316.1 | 317.7 | 318.7 | 319.3 | 318.8 | 317.0 | 314.1 | 311.2 |
| 77.5° | 235.3 | 275.9 | 310.6 | 325.4 | 326.0 | 324.9 | 324.6 | 323.8 | 321.5 | 318.3 | 315.8 |
| 80° | 235.3 | 275.7 | 315.0 | 335.1 | 334.2 | 330.8 | 329.7 | 328.8 | 326.0 | 322.5 | 320.6 |
| 82.5° | 233.4 | 276.4 | 321.0 | 345.1 | 342.1 | 336.5 | 334.8 | 333.7 | 330.4 | 326.8 | 325.5 |
| 85° | 231.4 | 275.1 | 324.5 | 355.8 | 349.9 | 341.9 | 339.8 | 338.7 | 334.9 | 331.1 | 330.5 |
| 87.5° | 229.5 | 273.9 | 328.0 | 365.5 | 357.9 | 347.6 | 344.9 | 343.7 | 339.4 | 335.5 | 335.6 |
| 90° | 227.6 | 272.6 | 331.5 | 375.1 | 365.9 | 353.3 | 350.0 | 348.7 | 344.0 | 340.1 | 340.7 |
| 92.5° | 229.5 | 273.9 | 328.0 | 365.5 | 357.9 | 347.6 | 344.9 | 343.7 | 339.4 | 335.5 | 335.6 |
| 95° | 231.4 | 275.1 | 324.5 | 355.8 | 349.9 | 341.9 | 339.8 | 338.7 | 334.9 | 331.1 | 330.5 |
| 97.5° | 233.4 | 276.4 | 321.0 | 345.1 | 342.1 | 336.5 | 334.8 | 333.7 | 330.4 | 326.8 | 325.5 |
| 100° | 235.3 | 275.7 | 315.0 | 335.1 | 334.2 | 330.8 | 329.7 | 328.8 | 326.0 | 322.5 | 320.6 |
| 102.5° | 235.3 | 275.9 | 310.6 | 325.4 | 326.0 | 324.9 | 324.6 | 323.8 | 321.5 | 318.3 | 315.8 |
| 105° | 236.3 | 275.9 | 306.3 | 316.1 | 317.7 | 318.7 | 319.3 | 318.8 | 317.0 | 314.1 | 311.2 |
| 107.5° | 237.2 | 275.8 | 302.2 | 307.5 | 309.2 | 312.1 | 313.9 | 313.9 | 312.5 | 310.0 | 306.8 |
| 110° | 237.8 | 275.4 | 298.4 | 299.7 | 300.4 | 305.0 | 308.4 | 308.9 | 307.9 | 305.9 | 301.8 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 275° | 277.5° | 280° | 282.5° | 285° | 287.5° | 290° | 292.5° | 295° | 297.5° | 300° |
|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 112.5° | 237.8 | 273.6 | 292.9 | 290.6 | 288.5 | 292.9 | 296.1 | 295.9 | 294.1 | 292.0 | 289.0 |
| 115° | 222.3 | 254.2 | 272.5 | 272.6 | 269.5 | 273.2 | 276.9 | 277.7 | 277.1 | 276.6 | 275.4 |
| 117.5° | 206.9 | 235.1 | 252.3 | 254.3 | 250.5 | 253.5 | 257.4 | 259.0 | 259.5 | 260.3 | 260.8 |
| 120° | 191.8 | 216.2 | 232.1 | 235.8 | 231.6 | 233.8 | 237.4 | 239.7 | 241.3 | 243.1 | 245.2 |
| 122.5° | 176.9 | 197.7 | 212.2 | 216.9 | 212.7 | 214.4 | 217.4 | 220.1 | 222.5 | 225.1 | 228.6 |
| 125° | 162.2 | 179.5 | 192.4 | 197.8 | 194.5 | 195.3 | 197.3 | 200.0 | 202.9 | 206.1 | 210.3 |
| 127.5° | 147.9 | 161.8 | 172.8 | 177.9 | 176.3 | 176.2 | 177.4 | 179.5 | 182.8 | 186.5 | 191.0 |
| 130° | 134.0 | 144.6 | 153.5 | 157.3 | 157.5 | 157.2 | 157.5 | 159.1 | 162.1 | 166.0 | 170.5 |
| 132.5° | 120.4 | 127.9 | 134.2 | 137.1 | 138.3 | 138.4 | 138.2 | 139.0 | 142.6 | 149.7 | 157.1 |
| 135° | 107.5 | 112.6 | 117.1 | 120.5 | 123.3 | 125.7 | 127.6 | 130.2 | 133.9 | 140.3 | 147.3 |
| 137.5° | 99.0 | 104.1 | 108.5 | 112.2 | 115.3 | 117.8 | 120.1 | 122.2 | 126.0 | 131.0 | 137.3 |
| 140° | 90.5 | 95.5 | 99.9 | 103.8 | 107.0 | 109.8 | 112.3 | 114.5 | 117.6 | 121.6 | 127.4 |
| 142.5° | 82.0 | 86.8 | 91.2 | 95.2 | 98.5 | 101.5 | 104.1 | 106.5 | 109.1 | 112.7 | 117.0 |
| 145° | 73.4 | 78.1 | 82.4 | 86.3 | 89.8 | 93.2 | 95.6 | 98.1 | 100.6 | 103.4 | 107.3 |
| 147.5° | 64.8 | 69.3 | 73.5 | 77.2 | 80.7 | 84.0 | 86.9 | 89.4 | 91.8 | 94.3 | 97.3 |
| 150° | 56.1 | 60.4 | 64.5 | 68.1 | 71.7 | 74.7 | 77.8 | 80.4 | 82.7 | 85.1 | 87.5 |
| 152.5° | 47.6 | 51.4 | 55.3 | 58.8 | 62.0 | 65.2 | 68.2 | 71.1 | 73.4 | 75.5 | 77.8 |
| 155° | 39.1 | 42.4 | 46.0 | 49.4 | 52.4 | 55.3 | 58.3 | 61.1 | 63.6 | 65.8 | 68.8 |
| 157.5° | 30.6 | 33.7 | 37.3 | 40.8 | 44.2 | 47.5 | 50.7 | 54.0 | 57.3 | 60.4 | 63.3 |
| 160° | 27.3 | 29.8 | 33.1 | 36.3 | 39.4 | 42.5 | 45.5 | 48.6 | 51.5 | 54.3 | 57.1 |
| 162.5° | 24.1 | 26.2 | 28.8 | 31.7 | 34.4 | 37.2 | 40.0 | 42.8 | 45.5 | 48.1 | 50.5 |
| 165° | 20.8 | 22.6 | 24.5 | 27.0 | 29.4 | 31.7 | 34.1 | 36.6 | 39.0 | 41.4 | 44.1 |
| 167.5° | 17.5 | 19.0 | 20.6 | 22.3 | 24.3 | 26.3 | 28.2 | 30.1 | 32.0 | 34.1 | 36.2 |
| 170° | 14.2 | 15.4 | 16.7 | 17.9 | 19.1 | 20.7 | 22.3 | 23.8 | 25.3 | 26.7 | 28.1 |
| 172.5° | 10.8 | 11.8 | 12.7 | 13.6 | 14.5 | 15.4 | 16.3 | 17.4 | 18.5 | 19.6 | 20.6 |
| 175° | 7.5 | 8.1 | 8.7 | 9.4 | 10.0 | 10.5 | 11.1 | 11.7 | 12.2 | 12.7 | 13.2 |
| 177.5° | 4.1 | 4.4 | 4.7 | 5.0 | 5.3 | 5.6 | 5.9 | 6.2 | 6.5 | 6.7 | 7.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 302.5° | 305° | 307.5° | 310° | 312.5° | 315° | 317.5° | 320° | 322.5° | 325° | 327.5° |
|--------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 0° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 2.5° | 7.2 | 7.4 | 7.6 | 7.8 | 8.0 | 8.2 | 8.3 | 8.5 | 8.6 | 8.7 | 8.8 |
| 5° | 13.8 | 14.5 | 15.1 | 15.6 | 16.2 | 16.7 | 17.1 | 17.6 | 18.0 | 18.3 | 18.7 |
| 7.5° | 21.6 | 22.6 | 23.5 | 24.3 | 25.2 | 26.2 | 27.2 | 28.1 | 29.0 | 29.8 | 30.5 |
| 10° | 29.7 | 31.2 | 32.8 | 34.3 | 35.7 | 37.1 | 38.4 | 39.4 | 40.3 | 41.1 | 41.9 |
| 12.5° | 38.2 | 40.1 | 41.9 | 43.4 | 44.8 | 46.2 | 47.4 | 48.6 | 49.7 | 51.0 | 52.4 |
| 15° | 45.8 | 47.8 | 49.7 | 51.4 | 53.2 | 55.3 | 57.3 | 59.3 | 61.2 | 63.1 | 64.8 |
| 17.5° | 52.8 | 55.4 | 57.6 | 60.1 | 62.5 | 65.0 | 67.3 | 69.6 | 71.8 | 73.9 | 75.9 |
| 20° | 59.8 | 62.6 | 65.4 | 68.2 | 70.9 | 73.6 | 76.3 | 78.9 | 81.2 | 83.3 | 85.2 |
| 22.5° | 66.3 | 69.3 | 72.4 | 75.5 | 78.6 | 81.7 | 84.7 | 87.5 | 90.0 | 91.8 | 93.3 |
| 25° | 72.1 | 75.4 | 79.1 | 82.7 | 86.5 | 90.1 | 93.5 | 96.4 | 98.8 | 101.0 | 103.3 |
| 27.5° | 80.0 | 82.6 | 86.1 | 90.6 | 95.4 | 99.8 | 104.1 | 107.5 | 111.1 | 114.0 | 116.5 |
| 30° | 90.5 | 94.1 | 97.8 | 102.4 | 106.7 | 111.7 | 116.8 | 121.3 | 125.4 | 128.8 | 131.8 |
| 32.5° | 101.1 | 105.4 | 110.5 | 115.5 | 121.0 | 126.4 | 131.7 | 136.8 | 141.2 | 144.9 | 148.4 |
| 35° | 111.8 | 117.2 | 122.9 | 129.0 | 135.1 | 141.2 | 147.0 | 152.2 | 156.9 | 161.6 | 166.3 |
| 37.5° | 122.8 | 128.9 | 135.5 | 142.3 | 149.1 | 155.5 | 161.4 | 167.1 | 173.1 | 179.3 | 185.9 |
| 40° | 133.6 | 140.7 | 147.9 | 155.4 | 162.5 | 169.2 | 176.1 | 182.9 | 190.7 | 199.2 | 208.0 |
| 42.5° | 144.6 | 152.1 | 160.2 | 168.1 | 175.6 | 183.4 | 191.1 | 200.5 | 210.8 | 221.1 | 232.2 |
| 45° | 155.0 | 163.6 | 172.1 | 180.4 | 189.0 | 197.6 | 208.0 | 218.7 | 230.9 | 244.2 | 260.0 |
| 47.5° | 165.7 | 174.7 | 183.7 | 192.9 | 202.3 | 213.3 | 224.8 | 237.6 | 252.8 | 269.7 | 290.2 |
| 50° | 176.6 | 185.6 | 195.2 | 205.4 | 216.5 | 228.4 | 241.7 | 257.6 | 276.2 | 298.1 | 322.5 |
| 52.5° | 196.4 | 202.3 | 209.4 | 218.0 | 230.7 | 243.4 | 259.1 | 278.1 | 300.9 | 327.9 | 360.3 |
| 55° | 214.8 | 220.0 | 227.0 | 235.6 | 246.4 | 258.6 | 276.2 | 299.3 | 326.9 | 360.7 | 400.9 |
| 57.5° | 231.8 | 236.2 | 243.0 | 252.5 | 264.7 | 280.4 | 298.7 | 320.9 | 355.0 | 396.2 | 441.6 |
| 60° | 247.4 | 250.7 | 258.3 | 269.7 | 284.5 | 302.2 | 322.3 | 351.4 | 387.6 | 430.3 | 483.1 |
| 62.5° | 261.7 | 265.0 | 273.0 | 286.4 | 304.5 | 323.2 | 347.3 | 379.7 | 421.3 | 470.4 | 525.9 |
| 65° | 274.8 | 278.6 | 288.7 | 304.4 | 323.7 | 341.8 | 370.5 | 408.7 | 454.8 | 508.0 | 569.2 |
| 67.5° | 286.6 | 291.3 | 303.8 | 322.3 | 340.7 | 361.6 | 392.7 | 433.9 | 484.6 | 543.5 | 610.0 |
| 70° | 298.6 | 303.6 | 318.5 | 339.6 | 355.5 | 379.3 | 414.1 | 458.9 | 512.3 | 574.1 | 647.8 |
| 72.5° | 306.7 | 315.0 | 332.9 | 354.9 | 369.0 | 395.3 | 432.1 | 479.8 | 535.6 | 602.1 | 675.9 |
| 75° | 312.9 | 323.6 | 344.2 | 366.1 | 383.9 | 410.8 | 449.0 | 497.0 | 553.4 | 624.1 | 699.9 |
| 77.5° | 318.9 | 331.7 | 355.5 | 377.3 | 397.6 | 426.3 | 465.6 | 514.4 | 573.2 | 643.5 | 718.7 |
| 80° | 324.8 | 339.2 | 366.4 | 388.5 | 409.8 | 439.2 | 479.0 | 528.0 | 590.0 | 661.8 | 740.3 |
| 82.5° | 330.5 | 346.2 | 376.8 | 399.3 | 420.8 | 449.9 | 489.2 | 538.0 | 602.3 | 675.3 | 756.4 |
| 85° | 336.1 | 352.6 | 386.5 | 409.8 | 430.6 | 458.5 | 496.7 | 544.7 | 610.3 | 683.7 | 766.6 |
| 87.5° | 341.6 | 358.8 | 395.9 | 420.1 | 439.7 | 466.0 | 502.6 | 549.4 | 616.0 | 689.5 | 773.8 |
| 90° | 346.7 | 363.9 | 402.9 | 428.7 | 447.2 | 471.0 | 504.8 | 549.1 | 614.0 | 686.1 | 769.4 |
| 92.5° | 341.6 | 358.8 | 395.9 | 420.1 | 439.7 | 466.0 | 502.6 | 549.4 | 616.0 | 689.5 | 773.8 |
| 95° | 336.1 | 352.6 | 386.5 | 409.8 | 430.6 | 458.5 | 496.7 | 544.7 | 610.3 | 683.7 | 766.6 |
| 97.5° | 330.5 | 346.2 | 376.8 | 399.3 | 420.8 | 449.9 | 489.2 | 538.0 | 602.3 | 675.3 | 756.4 |
| 100° | 324.8 | 339.2 | 366.4 | 388.5 | 409.8 | 439.2 | 479.0 | 528.0 | 590.0 | 661.8 | 740.3 |
| 102.5° | 318.9 | 331.7 | 355.5 | 377.3 | 397.6 | 426.3 | 465.6 | 514.4 | 573.2 | 643.5 | 718.7 |
| 105° | 312.9 | 323.6 | 344.2 | 366.1 | 383.9 | 410.8 | 449.0 | 497.0 | 553.4 | 624.1 | 699.9 |
| 107.5° | 306.7 | 315.0 | 332.9 | 354.9 | 369.0 | 395.3 | 432.1 | 479.8 | 535.6 | 602.1 | 675.9 |
| 110° | 298.6 | 303.6 | 318.5 | 339.6 | 355.5 | 379.3 | 414.1 | 458.9 | 512.3 | 574.1 | 647.8 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 302.5° | 305° | 307.5° | 310° | 312.5° | 315° | 317.5° | 320° | 322.5° | 325° | 327.5° |
|--------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 112.5° | 286.6 | 291.3 | 303.8 | 322.3 | 340.7 | 361.6 | 392.7 | 433.9 | 484.6 | 543.5 | 610.0 |
| 115° | 274.8 | 278.6 | 288.7 | 304.4 | 323.7 | 341.8 | 370.5 | 408.7 | 454.8 | 508.0 | 569.2 |
| 117.5° | 261.7 | 265.0 | 273.0 | 286.4 | 304.5 | 323.2 | 347.3 | 379.7 | 421.3 | 470.4 | 525.9 |
| 120° | 247.4 | 250.7 | 258.3 | 269.7 | 284.5 | 302.2 | 322.3 | 351.4 | 387.6 | 430.3 | 483.1 |
| 122.5° | 231.8 | 236.2 | 243.0 | 252.5 | 264.7 | 280.4 | 298.7 | 320.9 | 355.0 | 396.2 | 441.6 |
| 125° | 214.8 | 220.0 | 227.0 | 235.6 | 246.4 | 258.6 | 276.2 | 299.3 | 326.9 | 360.7 | 400.9 |
| 127.5° | 196.4 | 202.3 | 209.4 | 218.0 | 230.7 | 243.4 | 259.1 | 278.1 | 300.9 | 327.9 | 360.3 |
| 130° | 176.6 | 185.6 | 195.2 | 205.4 | 216.5 | 228.4 | 241.7 | 257.6 | 276.2 | 298.1 | 322.5 |
| 132.5° | 165.7 | 174.7 | 183.7 | 192.9 | 202.3 | 213.3 | 224.8 | 237.6 | 252.8 | 269.7 | 290.2 |
| 135° | 155.0 | 163.6 | 172.1 | 180.4 | 189.0 | 197.6 | 208.0 | 218.7 | 230.9 | 244.2 | 260.0 |
| 137.5° | 144.6 | 152.1 | 160.2 | 168.1 | 175.6 | 183.4 | 191.1 | 200.5 | 210.8 | 221.1 | 232.2 |
| 140° | 133.6 | 140.7 | 147.9 | 155.4 | 162.5 | 169.2 | 176.1 | 182.9 | 190.7 | 199.2 | 208.0 |
| 142.5° | 122.8 | 128.9 | 135.5 | 142.3 | 149.1 | 155.5 | 161.4 | 167.1 | 173.1 | 179.3 | 185.9 |
| 145° | 111.8 | 117.2 | 122.9 | 129.0 | 135.1 | 141.2 | 147.0 | 152.2 | 156.9 | 161.6 | 166.3 |
| 147.5° | 101.1 | 105.4 | 110.5 | 115.5 | 121.0 | 126.4 | 131.7 | 136.8 | 141.2 | 144.9 | 148.4 |
| 150° | 90.5 | 94.1 | 97.8 | 102.4 | 106.7 | 111.7 | 116.8 | 121.3 | 125.4 | 128.8 | 131.8 |
| 152.5° | 80.0 | 82.6 | 86.1 | 90.6 | 95.4 | 99.8 | 104.1 | 107.5 | 111.1 | 114.0 | 116.5 |
| 155° | 72.1 | 75.4 | 79.1 | 82.7 | 86.5 | 90.1 | 93.5 | 96.4 | 98.8 | 101.0 | 103.3 |
| 157.5° | 66.3 | 69.3 | 72.4 | 75.5 | 78.6 | 81.7 | 84.7 | 87.5 | 90.0 | 91.8 | 93.3 |
| 160° | 59.8 | 62.6 | 65.4 | 68.2 | 70.9 | 73.6 | 76.3 | 78.9 | 81.2 | 83.3 | 85.2 |
| 162.5° | 52.8 | 55.4 | 57.6 | 60.1 | 62.5 | 65.0 | 67.3 | 69.6 | 71.8 | 73.9 | 75.9 |
| 165° | 45.8 | 47.8 | 49.7 | 51.4 | 53.2 | 55.3 | 57.3 | 59.3 | 61.2 | 63.1 | 64.8 |
| 167.5° | 38.2 | 40.1 | 41.9 | 43.4 | 44.8 | 46.2 | 47.4 | 48.6 | 49.7 | 51.0 | 52.4 |
| 170° | 29.7 | 31.2 | 32.8 | 34.3 | 35.7 | 37.1 | 38.4 | 39.4 | 40.3 | 41.1 | 41.9 |
| 172.5° | 21.6 | 22.6 | 23.5 | 24.3 | 25.2 | 26.2 | 27.2 | 28.1 | 29.0 | 29.8 | 30.5 |
| 175° | 13.8 | 14.5 | 15.1 | 15.6 | 16.2 | 16.7 | 17.1 | 17.6 | 18.0 | 18.3 | 18.7 |
| 177.5° | 7.2 | 7.4 | 7.6 | 7.8 | 8.0 | 8.2 | 8.3 | 8.5 | 8.6 | 8.7 | 8.8 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 330° | 332.5° | 335° | 337.5° | 340° | 342.5° | 345° | 347.5° | 350° | 352.5° | 355° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 2.5° | 8.9 | 8.9 | 9.0 | 9.0 | 9.0 | 9.0 | 9.3 | 9.2 | 9.1 | 8.9 | 8.8 |
| 5° | 18.9 | 19.2 | 19.4 | 19.6 | 19.7 | 19.8 | 19.8 | 19.8 | 20.1 | 19.9 | 19.6 |
| 7.5° | 31.2 | 31.8 | 32.3 | 32.8 | 33.2 | 33.6 | 33.8 | 34.0 | 34.1 | 34.5 | 34.2 |
| 10° | 42.5 | 43.1 | 43.6 | 44.0 | 44.4 | 44.7 | 44.8 | 45.0 | 45.0 | 45.3 | 45.0 |
| 12.5° | 53.7 | 55.0 | 56.1 | 57.1 | 58.1 | 58.9 | 59.6 | 60.1 | 60.6 | 60.9 | 61.4 |
| 15° | 66.4 | 67.9 | 69.3 | 70.6 | 71.8 | 72.8 | 73.7 | 74.5 | 75.1 | 75.6 | 76.3 |
| 17.5° | 77.8 | 79.2 | 80.5 | 81.5 | 82.5 | 83.3 | 83.9 | 84.4 | 84.7 | 84.9 | 85.2 |
| 20° | 86.9 | 88.2 | 88.9 | 89.2 | 89.4 | 89.3 | 89.1 | 88.6 | 88.0 | 87.3 | 86.5 |
| 22.5° | 94.4 | 95.1 | 95.9 | 96.6 | 97.0 | 97.1 | 96.9 | 96.4 | 95.6 | 94.6 | 93.7 |
| 25° | 105.2 | 106.5 | 107.5 | 108.1 | 108.4 | 108.2 | 107.6 | 106.7 | 105.5 | 103.9 | 102.1 |
| 27.5° | 118.6 | 120.0 | 121.0 | 121.9 | 122.9 | 123.6 | 123.9 | 123.8 | 123.3 | 122.4 | 121.1 |
| 30° | 134.2 | 136.6 | 138.6 | 140.3 | 142.6 | 144.5 | 146.0 | 147.1 | 147.6 | 147.7 | 147.1 |
| 32.5° | 151.7 | 155.5 | 159.0 | 162.3 | 166.3 | 170.6 | 174.5 | 177.7 | 180.4 | 182.2 | 183.3 |
| 35° | 170.9 | 176.9 | 183.4 | 189.6 | 195.7 | 202.5 | 208.6 | 214.0 | 218.7 | 222.4 | 225.1 |
| 37.5° | 193.6 | 201.6 | 210.8 | 219.8 | 228.5 | 238.6 | 248.3 | 257.2 | 265.0 | 271.6 | 276.8 |
| 40° | 217.9 | 228.4 | 241.2 | 254.6 | 267.6 | 281.2 | 294.9 | 307.3 | 318.3 | 327.8 | 335.4 |
| 42.5° | 245.7 | 259.7 | 275.7 | 294.2 | 312.0 | 329.7 | 349.5 | 367.7 | 384.1 | 398.3 | 410.1 |
| 45° | 276.6 | 296.2 | 315.4 | 340.1 | 365.2 | 391.9 | 415.2 | 439.4 | 461.1 | 480.1 | 496.1 |
| 47.5° | 311.8 | 337.8 | 364.8 | 393.3 | 426.1 | 457.6 | 489.6 | 521.0 | 549.6 | 574.9 | 596.5 |
| 50° | 352.9 | 384.4 | 420.0 | 454.8 | 493.2 | 533.2 | 572.8 | 611.9 | 646.2 | 675.5 | 699.6 |
| 52.5° | 397.3 | 436.3 | 479.3 | 522.4 | 570.0 | 619.6 | 666.7 | 713.2 | 751.3 | 781.2 | 803.5 |
| 55° | 443.6 | 491.6 | 542.2 | 598.6 | 657.2 | 722.3 | 779.7 | 820.1 | 850.3 | 872.7 | 887.9 |
| 57.5° | 492.5 | 549.3 | 610.2 | 680.0 | 756.2 | 816.6 | 875.8 | 906.3 | 924.0 | 937.1 | 945.5 |
| 60° | 542.6 | 607.2 | 680.8 | 754.7 | 825.4 | 885.6 | 932.6 | 961.7 | 974.1 | 983.8 | 990.7 |
| 62.5° | 589.7 | 663.0 | 739.3 | 815.5 | 880.2 | 935.2 | 974.7 | 1001.0 | 1013.5 | 1024.4 | 1033.2 |
| 65° | 637.0 | 708.5 | 788.8 | 865.7 | 933.4 | 986.4 | 1016.6 | 1035.7 | 1046.1 | 1056.6 | 1065.7 |
| 67.5° | 681.7 | 756.6 | 838.4 | 923.4 | 993.0 | 1032.5 | 1053.5 | 1063.0 | 1072.3 | 1085.5 | 1094.1 |
| 70° | 721.0 | 803.1 | 891.3 | 982.7 | 1042.0 | 1065.0 | 1077.4 | 1090.4 | 1103.1 | 1110.9 | 1118.1 |
| 72.5° | 755.4 | 841.7 | 934.9 | 1016.0 | 1065.9 | 1085.8 | 1099.0 | 1110.9 | 1121.6 | 1131.3 | 1141.2 |
| 75° | 783.4 | 872.0 | 964.2 | 1042.3 | 1086.8 | 1102.7 | 1113.9 | 1125.6 | 1137.4 | 1149.9 | 1160.4 |
| 77.5° | 803.2 | 890.7 | 991.8 | 1069.5 | 1103.2 | 1118.6 | 1128.0 | 1135.0 | 1148.1 | 1162.5 | 1176.4 |
| 80° | 822.3 | 911.9 | 1015.4 | 1095.0 | 1119.8 | 1133.3 | 1136.9 | 1146.2 | 1154.7 | 1171.1 | 1189.6 |
| 82.5° | 838.6 | 933.1 | 1037.9 | 1104.2 | 1130.0 | 1139.7 | 1145.8 | 1158.5 | 1168.3 | 1181.0 | 1195.9 |
| 85° | 848.4 | 943.5 | 1053.5 | 1110.0 | 1134.4 | 1142.5 | 1154.2 | 1169.9 | 1180.2 | 1189.1 | 1192.0 |
| 87.5° | 854.8 | 943.9 | 1060.7 | 1114.3 | 1137.5 | 1145.6 | 1157.2 | 1171.6 | 1179.4 | 1194.0 | 1203.3 |
| 90° | 848.8 | 935.5 | 1057.9 | 1114.8 | 1138.6 | 1148.5 | 1157.1 | 1169.7 | 1171.0 | 1189.5 | 1203.4 |
| 92.5° | 854.8 | 943.9 | 1060.7 | 1114.3 | 1137.5 | 1145.6 | 1157.2 | 1171.6 | 1179.4 | 1194.0 | 1203.3 |
| 95° | 848.4 | 943.5 | 1053.5 | 1110.0 | 1134.4 | 1142.5 | 1154.2 | 1169.9 | 1180.2 | 1189.1 | 1192.0 |
| 97.5° | 838.6 | 933.1 | 1037.9 | 1104.2 | 1130.0 | 1139.7 | 1145.8 | 1158.5 | 1168.3 | 1181.0 | 1195.9 |
| 100° | 822.3 | 911.9 | 1015.4 | 1095.0 | 1119.8 | 1133.3 | 1136.9 | 1146.2 | 1154.7 | 1171.1 | 1189.6 |
| 102.5° | 803.2 | 890.7 | 991.8 | 1069.5 | 1103.2 | 1118.6 | 1128.0 | 1135.0 | 1148.1 | 1162.5 | 1176.4 |
| 105° | 783.4 | 872.0 | 964.2 | 1042.3 | 1086.8 | 1102.7 | 1113.9 | 1125.6 | 1137.4 | 1149.9 | 1160.4 |
| 107.5° | 755.4 | 841.7 | 934.9 | 1016.0 | 1065.9 | 1085.8 | 1099.0 | 1110.9 | 1121.6 | 1131.3 | 1141.2 |
| 110° | 721.0 | 803.1 | 891.3 | 982.7 | 1042.0 | 1065.0 | 1077.4 | 1090.4 | 1103.1 | 1110.9 | 1118.1 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 330° | 332.5° | 335° | 337.5° | 340° | 342.5° | 345° | 347.5° | 350° | 352.5° | 355° |
|--------|-------|--------|-------|--------|-------|--------|--------|--------|--------|--------|--------|
| 112.5° | 681.7 | 756.6 | 838.4 | 923.4 | 993.0 | 1032.5 | 1053.5 | 1063.0 | 1072.3 | 1085.5 | 1094.1 |
| 115° | 637.0 | 708.5 | 788.8 | 865.7 | 933.4 | 986.4 | 1016.6 | 1035.7 | 1046.1 | 1056.6 | 1065.7 |
| 117.5° | 589.7 | 663.0 | 739.3 | 815.5 | 880.2 | 935.2 | 974.7 | 1001.0 | 1013.5 | 1024.4 | 1033.2 |
| 120° | 542.6 | 607.2 | 680.8 | 754.7 | 825.4 | 885.6 | 932.6 | 961.7 | 974.1 | 983.8 | 990.7 |
| 122.5° | 492.5 | 549.3 | 610.2 | 680.0 | 756.2 | 816.6 | 875.8 | 906.3 | 924.0 | 937.0 | 945.5 |
| 125° | 443.6 | 491.6 | 542.2 | 598.6 | 657.2 | 722.3 | 779.7 | 820.1 | 850.3 | 872.7 | 887.9 |
| 127.5° | 397.3 | 436.3 | 479.3 | 522.4 | 570.0 | 619.6 | 666.7 | 713.2 | 751.3 | 781.2 | 803.5 |
| 130° | 352.9 | 384.4 | 420.0 | 454.8 | 493.2 | 533.2 | 572.8 | 611.9 | 646.2 | 675.5 | 699.6 |
| 132.5° | 311.8 | 337.8 | 364.8 | 393.3 | 426.1 | 457.6 | 489.6 | 521.0 | 549.6 | 574.9 | 596.5 |
| 135° | 276.6 | 296.2 | 315.4 | 340.1 | 365.2 | 391.9 | 415.2 | 439.4 | 461.1 | 480.1 | 496.1 |
| 137.5° | 245.7 | 259.7 | 275.7 | 294.2 | 312.0 | 329.7 | 349.5 | 367.7 | 384.1 | 398.3 | 410.1 |
| 140° | 217.9 | 228.4 | 241.2 | 254.6 | 267.6 | 281.2 | 294.9 | 307.3 | 318.3 | 327.8 | 335.4 |
| 142.5° | 193.6 | 201.6 | 210.8 | 219.8 | 228.5 | 238.6 | 248.3 | 257.2 | 265.0 | 271.6 | 276.8 |
| 145° | 170.9 | 176.9 | 183.4 | 189.6 | 195.7 | 202.5 | 208.6 | 214.0 | 218.7 | 222.4 | 225.1 |
| 147.5° | 151.7 | 155.5 | 159.0 | 162.3 | 166.3 | 170.6 | 174.5 | 177.7 | 180.4 | 182.2 | 183.3 |
| 150° | 134.2 | 136.6 | 138.6 | 140.3 | 142.6 | 144.5 | 146.0 | 147.1 | 147.6 | 147.7 | 147.1 |
| 152.5° | 118.6 | 120.0 | 121.0 | 121.9 | 122.9 | 123.6 | 123.9 | 123.8 | 123.3 | 122.4 | 121.1 |
| 155° | 105.2 | 106.5 | 107.5 | 108.1 | 108.4 | 108.2 | 107.6 | 106.7 | 105.5 | 103.9 | 102.1 |
| 157.5° | 94.4 | 95.1 | 95.9 | 96.6 | 97.0 | 97.1 | 96.9 | 96.4 | 95.6 | 94.6 | 93.7 |
| 160° | 86.9 | 88.2 | 88.9 | 89.2 | 89.4 | 89.3 | 89.1 | 88.6 | 88.0 | 87.3 | 86.5 |
| 162.5° | 77.8 | 79.2 | 80.5 | 81.5 | 82.5 | 83.3 | 83.9 | 84.4 | 84.7 | 84.9 | 85.2 |
| 165° | 66.4 | 67.9 | 69.3 | 70.6 | 71.8 | 72.8 | 73.7 | 74.5 | 75.1 | 75.6 | 76.3 |
| 167.5° | 53.7 | 55.0 | 56.1 | 57.1 | 58.1 | 58.9 | 59.6 | 60.1 | 60.6 | 60.9 | 61.4 |
| 170° | 42.5 | 43.1 | 43.6 | 44.0 | 44.4 | 44.7 | 44.8 | 45.0 | 45.0 | 45.3 | 45.0 |
| 172.5° | 31.2 | 31.8 | 32.3 | 32.8 | 33.2 | 33.6 | 33.8 | 34.0 | 34.1 | 34.5 | 34.2 |
| 175° | 18.9 | 19.2 | 19.4 | 19.6 | 19.7 | 19.8 | 19.8 | 19.8 | 20.1 | 19.9 | 19.6 |
| 177.5° | 8.9 | 8.9 | 9.0 | 9.0 | 9.0 | 9.0 | 9.3 | 9.2 | 9.1 | 8.9 | 8.8 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 357.5° | 360° |
|--------|--------|--------|
| 0° | 0.7 | 0.7 |
| 2.5° | 8.7 | 8.6 |
| 5° | 19.4 | 19.2 |
| 7.5° | 34.0 | 33.7 |
| 10° | 44.6 | 44.3 |
| 12.5° | 61.1 | 60.9 |
| 15° | 76.2 | 76.1 |
| 17.5° | 85.0 | 84.7 |
| 20° | 85.6 | 84.7 |
| 22.5° | 92.2 | 90.6 |
| 25° | 100.2 | 97.9 |
| 27.5° | 119.5 | 117.1 |
| 30° | 146.3 | 144.2 |
| 32.5° | 184.0 | 182.6 |
| 35° | 227.3 | 226.9 |
| 37.5° | 281.4 | 282.5 |
| 40° | 342.2 | 344.7 |
| 42.5° | 420.8 | 425.4 |
| 45° | 510.6 | 517.4 |
| 47.5° | 616.4 | 626.5 |
| 50° | 721.1 | 731.7 |
| 52.5° | 821.6 | 827.6 |
| 55° | 899.1 | 899.8 |
| 57.5° | 951.5 | 950.0 |
| 60° | 996.2 | 995.0 |
| 62.5° | 1039.3 | 1042.0 |
| 65° | 1072.7 | 1077.1 |
| 67.5° | 1098.6 | 1099.6 |
| 70° | 1123.6 | 1126.7 |
| 72.5° | 1148.4 | 1152.5 |
| 75° | 1167.8 | 1172.3 |
| 77.5° | 1184.3 | 1188.9 |
| 80° | 1197.6 | 1196.8 |
| 82.5° | 1206.9 | 1208.7 |
| 85° | 1207.5 | 1218.6 |
| 87.5° | 1202.0 | 1222.0 |
| 90° | 1202.8 | 1207.4 |
| 92.5° | 1202.0 | 1222.0 |
| 95° | 1207.5 | 1218.6 |
| 97.5° | 1206.9 | 1208.7 |
| 100° | 1197.6 | 1196.8 |
| 102.5° | 1184.3 | 1188.9 |
| 105° | 1167.8 | 1172.3 |
| 107.5° | 1148.4 | 1152.5 |
| 110° | 1123.6 | 1126.7 |



TEST NUMBER: P231971

CATALOG NUMBER: FVS4WM-4-LD4-50-1LO-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 357.5° | 360° |
|--------|--------|--------|
| 112.5° | 1098.6 | 1099.6 |
| 115° | 1072.7 | 1077.1 |
| 117.5° | 1039.3 | 1042.0 |
| 120° | 996.2 | 995.0 |
| 122.5° | 951.5 | 950.0 |
| 125° | 899.1 | 899.8 |
| 127.5° | 821.6 | 827.6 |
| 130° | 721.1 | 731.7 |
| 132.5° | 616.4 | 626.5 |
| 135° | 510.6 | 517.4 |
| 137.5° | 420.8 | 425.4 |
| 140° | 342.2 | 344.7 |
| 142.5° | 281.4 | 282.5 |
| 145° | 227.3 | 226.9 |
| 147.5° | 184.0 | 182.6 |
| 150° | 146.3 | 144.2 |
| 152.5° | 119.5 | 117.1 |
| 155° | 100.2 | 97.9 |
| 157.5° | 92.2 | 90.6 |
| 160° | 85.6 | 84.7 |
| 162.5° | 85.0 | 84.7 |
| 165° | 76.2 | 76.1 |
| 167.5° | 61.1 | 60.9 |
| 170° | 44.6 | 44.3 |
| 172.5° | 34.0 | 33.7 |
| 175° | 19.4 | 19.2 |
| 177.5° | 8.7 | 8.6 |
| 180° | 0.0 | 0.0 |

(END OF REPORT)