

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: P232074

Luminaire Tested: **FVS4M-3-LD4-40-2HI-PFS125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P232074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-29)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4M-3-LD4-40-2HI-PFS125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
3FT LENGTH, 2-MODULE LED WITH PFS125 LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

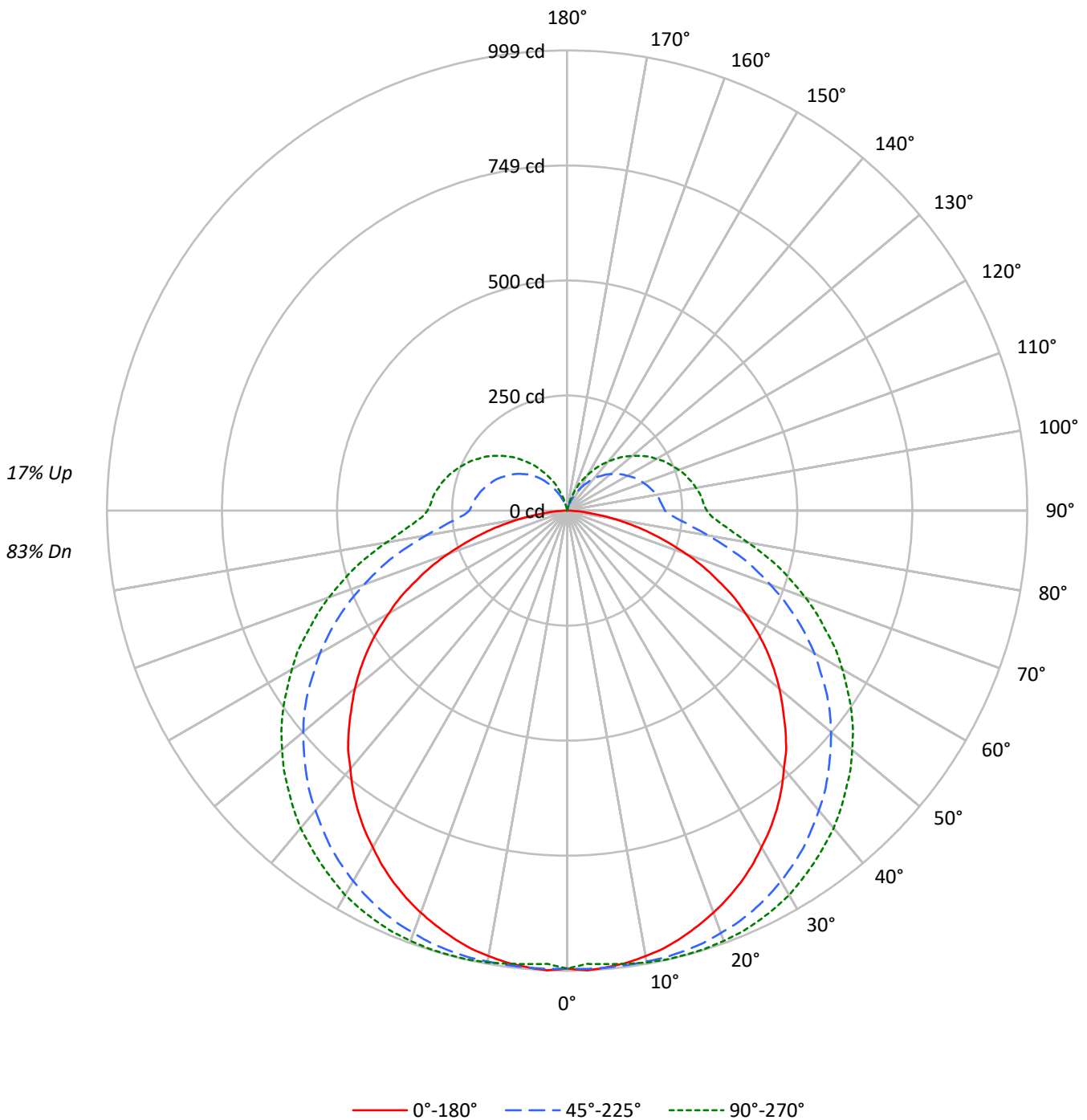
Lumens per Lamp: N/A
Luminaire Lumens: 4477.8 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.44 / 1.52
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 2.92' x H: 0.19')
CIE Type: Semi-Direct

Input Watts (W): 71.7
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: P232074

CATALOG NUMBER: FVS4M-3-LD4-40-2HI-PFS125-UNV-EDC1

Luminous Intensity Polar Plot





TEST NUMBER: P232074

CATALOG NUMBER: FVS4M-3-LD4-40-2HI-PFS125-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 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 110 | 102 | 102 | 102 | 94 | 94 | 94 | 86 | 86 | 86 | 83 |
| 1 | 103 | 97 | 92 | 88 | 98 | 93 | 89 | 85 | 86 | 82 | 79 | 79 | 76 | 73 | 73 | 70 | 68 | 65 |
| 2 | 92 | 83 | 76 | 69 | 88 | 80 | 73 | 67 | 74 | 68 | 63 | 68 | 63 | 59 | 62 | 59 | 55 | 52 |
| 3 | 84 | 72 | 64 | 57 | 80 | 69 | 61 | 55 | 64 | 57 | 52 | 59 | 53 | 49 | 54 | 50 | 46 | 43 |
| 4 | 76 | 64 | 54 | 47 | 73 | 61 | 53 | 46 | 56 | 49 | 43 | 52 | 46 | 41 | 48 | 43 | 39 | 36 |
| 5 | 70 | 56 | 47 | 40 | 66 | 54 | 46 | 39 | 50 | 43 | 37 | 46 | 40 | 35 | 43 | 38 | 33 | 31 |
| 6 | 64 | 50 | 41 | 35 | 61 | 49 | 40 | 34 | 45 | 38 | 32 | 42 | 35 | 31 | 39 | 33 | 29 | 26 |
| 7 | 59 | 46 | 37 | 30 | 57 | 44 | 35 | 30 | 41 | 33 | 28 | 38 | 32 | 27 | 35 | 30 | 25 | 23 |
| 8 | 55 | 41 | 33 | 27 | 53 | 40 | 32 | 26 | 37 | 30 | 25 | 35 | 28 | 24 | 32 | 27 | 23 | 20 |
| 9 | 51 | 38 | 29 | 24 | 49 | 37 | 29 | 23 | 34 | 27 | 22 | 32 | 26 | 21 | 30 | 24 | 20 | 18 |
| 10 | 48 | 35 | 27 | 21 | 46 | 34 | 26 | 21 | 31 | 25 | 20 | 29 | 23 | 19 | 27 | 22 | 18 | 16 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11740 | 11740 | 11740 |
| 5° | 11731 | 11342 | 11129 |
| 10° | 11645 | 11009 | 10802 |
| 15° | 11538 | 10741 | 10513 |
| 20° | 11408 | 10476 | 10254 |
| 25° | 11272 | 10229 | 10010 |
| 30° | 11097 | 9966 | 9763 |
| 35° | 10940 | 9699 | 9482 |
| 40° | 10707 | 9399 | 9228 |
| 45° | 10514 | 9114 | 8935 |
| 50° | 10273 | 8811 | 8656 |
| 55° | 9976 | 8466 | 8349 |
| 60° | 9521 | 8075 | 7992 |
| 65° | 8915 | 7615 | 7589 |
| 70° | 8070 | 7070 | 7170 |
| 75° | 6882 | 6497 | 6705 |
| 80° | 5133 | 5773 | 6148 |
| 85° | 2734 | 5255 | 5811 |



TEST NUMBER: P232074

CATALOG NUMBER: FVS4M-3-LD4-40-2HI-PFS125-UNV-EDC1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.8 | 2.1 |
| 10°-20° | 278.3 | 6.2 |
| 20°-30° | 437.4 | 9.8 |
| 30°-40° | 551.3 | 12.3 |
| 40°-50° | 606.6 | 13.5 |
| 50°-60° | 596.6 | 13.3 |
| 60°-70° | 519.1 | 11.6 |
| 70°-80° | 386.4 | 8.6 |
| 80°-90° | 247.7 | 5.5 |
| 90°-100° | 196.8 | 4.4 |
| 100°-110° | 174.8 | 3.9 |
| 110°-120° | 144.5 | 3.2 |
| 120°-130° | 109.5 | 2.4 |
| 130°-140° | 73.8 | 1.6 |
| 140°-150° | 41.2 | 0.9 |
| 150°-160° | 16.4 | 0.4 |
| 160°-170° | 2.6 | 0.1 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 810.5 | 18.1 |
| 0°-40° | 1361.7 | 30.4 |
| 0°-60° | 2565.0 | 57.3 |
| 0°-90° | 3718.2 | 83.0 |
| 90°-120° | 516.1 | 11.5 |
| 90°-150° | 740.7 | 16.5 |
| 90°-180° | 760.0 | 17.0 |
| 0°-180° | 4477.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 994 | 994 | 994 | 994 | 994 | |
| 5° | 995 | 994 | 996 | 994 | 988 | 95 |
| 15° | 960 | 969 | 989 | 1000 | 998 | 271 |
| 25° | 891 | 918 | 957 | 981 | 983 | 411 |
| 35° | 793 | 838 | 894 | 928 | 934 | 496 |
| 45° | 670 | 731 | 802 | 846 | 856 | 517 |
| 55° | 529 | 603 | 687 | 739 | 753 | 472 |
| 65° | 363 | 449 | 547 | 606 | 621 | 360 |
| 75° | 187 | 284 | 392 | 454 | 476 | 197 |
| 85° | 35 | 134 | 247 | 315 | 337 | 43 |
| 90° | 1 | 101 | 212 | 282 | 303 | 2 |
| 95° | 1 | 96 | 204 | 273 | 294 | 1 |
| 105° | 1 | 84 | 187 | 252 | 272 | 1 |
| 115° | 1 | 72 | 165 | 224 | 242 | 1 |
| 125° | 1 | 58 | 138 | 190 | 206 | 1 |
| 135° | 1 | 42 | 107 | 150 | 163 | 1 |
| 145° | 1 | 24 | 72 | 106 | 116 | 1 |
| 155° | 1 | 10 | 35 | 60 | 67 | 0 |
| 165° | 1 | 2 | 8 | 14 | 17 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P232074

CATALOG NUMBER: FVS4M-3-LD4-40-2HI-PFS125-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 994.1 | 994.1 | 994.1 | 994.1 | 994.1 | 994.1 | 994.1 | 994.1 | 994.1 | 994.1 | 994.1 |
| 2.5° | 999.1 | 997.1 | 994.1 | 994.1 | 996.1 | 997.1 | 999.1 | 999.1 | 998.1 | 996.1 | 995.1 |
| 5° | 995.1 | 994.1 | 991.1 | 991.1 | 993.1 | 995.1 | 997.1 | 997.1 | 997.1 | 996.1 | 995.1 |
| 7.5° | 990.1 | 988.1 | 986.1 | 986.1 | 989.1 | 991.1 | 994.1 | 995.1 | 996.1 | 995.1 | 996.1 |
| 10° | 982.1 | 981.1 | 979.1 | 980.1 | 983.1 | 986.1 | 989.1 | 992.1 | 994.1 | 994.1 | 996.1 |
| 12.5° | 973.1 | 971.1 | 969.0 | 971.1 | 975.1 | 979.1 | 985.1 | 988.1 | 991.1 | 993.1 | 994.1 |
| 15° | 960.0 | 959.0 | 958.0 | 961.0 | 966.0 | 972.1 | 978.1 | 983.1 | 986.1 | 989.1 | 992.1 |
| 17.5° | 945.0 | 945.0 | 945.0 | 949.0 | 955.0 | 963.0 | 969.0 | 975.1 | 980.1 | 984.1 | 988.1 |
| 20° | 929.0 | 928.0 | 929.0 | 935.0 | 944.0 | 951.0 | 959.0 | 966.0 | 972.1 | 976.1 | 981.1 |
| 22.5° | 911.0 | 911.0 | 913.0 | 919.0 | 929.0 | 939.0 | 947.0 | 955.0 | 962.0 | 968.0 | 973.1 |
| 25° | 891.0 | 892.0 | 895.0 | 902.0 | 913.0 | 923.0 | 933.0 | 942.0 | 951.0 | 957.0 | 964.0 |
| 27.5° | 869.0 | 869.0 | 874.0 | 883.0 | 895.0 | 906.0 | 917.0 | 927.0 | 937.0 | 944.0 | 951.0 |
| 30° | 844.0 | 846.0 | 851.0 | 863.0 | 875.0 | 888.0 | 899.0 | 911.0 | 920.0 | 929.0 | 937.0 |
| 32.5° | 820.0 | 821.0 | 827.0 | 839.0 | 854.0 | 867.0 | 879.0 | 893.0 | 902.0 | 912.0 | 921.0 |
| 35° | 793.0 | 795.0 | 802.0 | 815.0 | 830.0 | 845.0 | 859.0 | 872.0 | 883.0 | 894.0 | 903.0 |
| 37.5° | 764.0 | 767.0 | 776.0 | 789.0 | 805.0 | 820.0 | 835.0 | 849.0 | 862.0 | 872.0 | 884.0 |
| 40° | 732.0 | 737.0 | 746.0 | 763.0 | 779.0 | 794.0 | 810.0 | 824.0 | 838.0 | 850.0 | 862.0 |
| 42.5° | 704.0 | 706.0 | 717.0 | 734.0 | 752.0 | 770.0 | 786.0 | 801.0 | 815.0 | 828.0 | 838.0 |
| 45° | 670.0 | 675.0 | 686.0 | 702.0 | 721.0 | 741.0 | 761.0 | 772.0 | 788.0 | 802.0 | 814.0 |
| 47.5° | 635.0 | 641.0 | 655.0 | 673.0 | 692.0 | 710.0 | 727.0 | 746.0 | 761.0 | 775.0 | 789.0 |
| 50° | 602.0 | 608.0 | 621.0 | 641.0 | 659.0 | 679.0 | 699.0 | 716.0 | 732.0 | 748.0 | 761.0 |
| 52.5° | 566.0 | 571.0 | 587.0 | 606.0 | 627.0 | 647.0 | 666.0 | 686.0 | 702.0 | 719.0 | 732.0 |
| 55° | 529.0 | 534.0 | 550.0 | 570.0 | 592.0 | 614.0 | 633.0 | 654.0 | 669.0 | 687.0 | 702.0 |
| 57.5° | 489.0 | 498.0 | 511.0 | 532.0 | 554.0 | 576.0 | 598.0 | 618.0 | 636.0 | 652.0 | 669.0 |
| 60° | 448.0 | 457.0 | 474.0 | 495.0 | 516.0 | 540.0 | 562.0 | 582.0 | 601.0 | 620.0 | 634.0 |
| 62.5° | 409.0 | 416.0 | 433.0 | 455.0 | 478.0 | 501.0 | 526.0 | 545.0 | 567.0 | 584.0 | 601.0 |
| 65° | 363.0 | 373.0 | 392.0 | 414.0 | 437.0 | 461.0 | 484.0 | 507.0 | 528.0 | 547.0 | 564.0 |
| 67.5° | 321.0 | 329.0 | 351.0 | 371.0 | 396.0 | 420.0 | 448.0 | 469.0 | 490.0 | 509.0 | 525.0 |
| 70° | 275.0 | 288.0 | 303.0 | 331.0 | 355.0 | 382.0 | 405.0 | 429.0 | 450.0 | 469.0 | 487.0 |
| 72.5° | 229.0 | 242.0 | 263.0 | 286.0 | 312.0 | 340.0 | 364.0 | 387.0 | 409.0 | 430.0 | 447.0 |
| 75° | 187.0 | 197.0 | 219.0 | 244.0 | 272.0 | 296.0 | 321.0 | 347.0 | 370.0 | 392.0 | 408.0 |
| 77.5° | 144.0 | 156.0 | 175.0 | 200.0 | 228.0 | 258.0 | 283.0 | 306.0 | 330.0 | 349.0 | 370.0 |
| 80° | 103.0 | 113.0 | 135.0 | 159.0 | 188.0 | 216.0 | 243.0 | 268.0 | 290.0 | 311.0 | 330.0 |
| 82.5° | 64.0 | 76.0 | 97.0 | 126.0 | 153.0 | 182.0 | 207.0 | 232.0 | 256.0 | 276.0 | 295.0 |
| 85° | 35.0 | 44.0 | 67.0 | 92.0 | 121.0 | 148.0 | 177.0 | 201.0 | 226.0 | 247.0 | 268.0 |
| 87.5° | 12.0 | 22.0 | 43.0 | 70.0 | 99.0 | 125.0 | 154.0 | 179.0 | 202.0 | 224.0 | 244.0 |
| 90° | 1.0 | 11.0 | 33.0 | 59.0 | 87.0 | 115.0 | 142.0 | 167.0 | 191.0 | 212.0 | 232.0 |
| 92.5° | 1.0 | 10.0 | 30.0 | 56.0 | 84.0 | 111.0 | 138.0 | 163.0 | 186.0 | 208.0 | 227.0 |
| 95° | 1.0 | 9.0 | 29.0 | 54.0 | 82.0 | 109.0 | 135.0 | 160.0 | 183.0 | 204.0 | 223.0 |
| 97.5° | 1.0 | 9.0 | 28.0 | 53.0 | 79.0 | 106.0 | 132.0 | 157.0 | 180.0 | 201.0 | 220.0 |
| 100° | 1.0 | 8.0 | 26.0 | 50.0 | 77.0 | 103.0 | 129.0 | 153.0 | 176.0 | 196.0 | 216.0 |
| 102.5° | 1.0 | 7.0 | 25.0 | 49.0 | 74.0 | 100.0 | 125.0 | 149.0 | 171.0 | 192.0 | 211.0 |
| 105° | 1.0 | 7.0 | 24.0 | 47.0 | 72.0 | 97.0 | 121.0 | 145.0 | 167.0 | 187.0 | 205.0 |
| 107.5° | 1.0 | 6.0 | 23.0 | 45.0 | 69.0 | 94.0 | 118.0 | 141.0 | 162.0 | 182.0 | 200.0 |
| 110° | 1.0 | 6.0 | 22.0 | 43.0 | 66.0 | 90.0 | 114.0 | 136.0 | 157.0 | 176.0 | 194.0 |



TEST NUMBER: P232074

CATALOG NUMBER: FVS4M-3-LD4-40-2HI-PFS125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|------|------|------|------|-------|-------|-------|-------|-------|
| 112.5° | 1.0 | 5.0 | 20.0 | 41.0 | 63.0 | 87.0 | 109.0 | 132.0 | 152.0 | 171.0 | 188.0 |
| 115° | 1.0 | 5.0 | 19.0 | 39.0 | 61.0 | 83.0 | 105.0 | 126.0 | 146.0 | 165.0 | 181.0 |
| 117.5° | 1.0 | 4.0 | 18.0 | 37.0 | 58.0 | 79.0 | 101.0 | 121.0 | 141.0 | 158.0 | 174.0 |
| 120° | 1.0 | 4.0 | 16.0 | 34.0 | 54.0 | 75.0 | 96.0 | 116.0 | 134.0 | 151.0 | 167.0 |
| 122.5° | 1.0 | 3.0 | 15.0 | 32.0 | 52.0 | 71.0 | 91.0 | 110.0 | 129.0 | 145.0 | 160.0 |
| 125° | 1.0 | 3.0 | 14.0 | 30.0 | 48.0 | 67.0 | 86.0 | 105.0 | 122.0 | 138.0 | 152.0 |
| 127.5° | 1.0 | 2.0 | 12.0 | 27.0 | 45.0 | 63.0 | 81.0 | 99.0 | 115.0 | 131.0 | 145.0 |
| 130° | 1.0 | 2.0 | 11.0 | 25.0 | 42.0 | 59.0 | 76.0 | 93.0 | 109.0 | 123.0 | 136.0 |
| 132.5° | 1.0 | 2.0 | 9.0 | 22.0 | 38.0 | 55.0 | 71.0 | 87.0 | 102.0 | 116.0 | 128.0 |
| 135° | 1.0 | 2.0 | 8.0 | 20.0 | 34.0 | 50.0 | 65.0 | 80.0 | 95.0 | 107.0 | 119.0 |
| 137.5° | 1.0 | 1.0 | 7.0 | 17.0 | 30.0 | 45.0 | 59.0 | 74.0 | 87.0 | 100.0 | 111.0 |
| 140° | 1.0 | 1.0 | 5.0 | 14.0 | 26.0 | 39.0 | 52.0 | 66.0 | 79.0 | 91.0 | 102.0 |
| 142.5° | 1.0 | 1.0 | 4.0 | 12.0 | 22.0 | 34.0 | 46.0 | 59.0 | 70.0 | 82.0 | 93.0 |
| 145° | 1.0 | 1.0 | 3.0 | 10.0 | 19.0 | 29.0 | 39.0 | 51.0 | 61.0 | 72.0 | 82.0 |
| 147.5° | 1.0 | 1.0 | 3.0 | 8.0 | 16.0 | 24.0 | 34.0 | 43.0 | 53.0 | 63.0 | 71.0 |
| 150° | 1.0 | 1.0 | 2.0 | 6.0 | 12.0 | 20.0 | 28.0 | 36.0 | 45.0 | 52.0 | 62.0 |
| 152.5° | 1.0 | 1.0 | 2.0 | 4.0 | 9.0 | 16.0 | 23.0 | 30.0 | 37.0 | 44.0 | 51.0 |
| 155° | 1.0 | 1.0 | 1.0 | 3.0 | 7.0 | 12.0 | 18.0 | 24.0 | 29.0 | 35.0 | 41.0 |
| 157.5° | 1.0 | 1.0 | 1.0 | 2.0 | 5.0 | 8.0 | 13.0 | 18.0 | 23.0 | 27.0 | 32.0 |
| 160° | 1.0 | 1.0 | 1.0 | 2.0 | 3.0 | 6.0 | 9.0 | 13.0 | 17.0 | 20.0 | 23.0 |
| 162.5° | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 3.0 | 6.0 | 9.0 | 11.0 | 13.0 | 16.0 |
| 165° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 3.0 | 4.0 | 6.0 | 8.0 | 9.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: P232074

CATALOG NUMBER: FVS4M-3-LD4-40-2HI-PFS125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|--------|--------|--------|--------|-------|-------|
| 0° | 994.1 | 994.1 | 994.1 | 994.1 | 994.1 | 994.1 | 994.1 | 994.1 |
| 2.5° | 994.1 | 993.1 | 992.1 | 991.1 | 990.1 | 988.1 | 986.1 | 985.1 |
| 5° | 995.1 | 995.1 | 994.1 | 993.1 | 992.1 | 990.1 | 988.1 | 988.1 |
| 7.5° | 996.1 | 997.1 | 997.1 | 997.1 | 996.1 | 995.1 | 993.1 | 992.1 |
| 10° | 998.1 | 998.1 | 999.1 | 999.1 | 999.1 | 998.1 | 997.1 | 996.1 |
| 12.5° | 997.1 | 998.1 | 1000.1 | 1001.1 | 1001.1 | 1000.1 | 998.1 | 998.1 |
| 15° | 995.1 | 997.1 | 999.1 | 1000.1 | 1001.1 | 1000.1 | 998.1 | 998.1 |
| 17.5° | 991.1 | 994.1 | 997.1 | 999.1 | 999.1 | 999.1 | 998.1 | 997.1 |
| 20° | 986.1 | 989.1 | 992.1 | 995.1 | 996.1 | 996.1 | 995.1 | 994.1 |
| 22.5° | 978.1 | 983.1 | 987.1 | 990.1 | 991.1 | 991.1 | 990.1 | 990.1 |
| 25° | 969.0 | 974.1 | 979.1 | 982.1 | 984.1 | 985.1 | 984.1 | 983.1 |
| 27.5° | 958.0 | 963.0 | 968.0 | 972.1 | 974.1 | 975.1 | 975.1 | 974.1 |
| 30° | 946.0 | 951.0 | 956.0 | 961.0 | 963.0 | 964.0 | 964.0 | 964.0 |
| 32.5° | 929.0 | 936.0 | 942.0 | 946.0 | 950.0 | 950.0 | 950.0 | 949.0 |
| 35° | 911.0 | 919.0 | 925.0 | 931.0 | 933.0 | 935.0 | 935.0 | 934.0 |
| 37.5° | 891.0 | 901.0 | 907.0 | 912.0 | 916.0 | 917.0 | 916.0 | 917.0 |
| 40° | 871.0 | 879.0 | 889.0 | 892.0 | 896.0 | 899.0 | 898.0 | 900.0 |
| 42.5° | 849.0 | 858.0 | 866.0 | 873.0 | 876.0 | 877.0 | 878.0 | 879.0 |
| 45° | 826.0 | 834.0 | 844.0 | 849.0 | 853.0 | 856.0 | 856.0 | 856.0 |
| 47.5° | 800.0 | 811.0 | 820.0 | 826.0 | 830.0 | 833.0 | 832.0 | 834.0 |
| 50° | 773.0 | 784.0 | 794.0 | 799.0 | 805.0 | 806.0 | 807.0 | 808.0 |
| 52.5° | 745.0 | 756.0 | 766.0 | 773.0 | 776.0 | 779.0 | 781.0 | 782.0 |
| 55° | 715.0 | 726.0 | 735.0 | 743.0 | 748.0 | 751.0 | 751.0 | 753.0 |
| 57.5° | 683.0 | 695.0 | 706.0 | 711.0 | 716.0 | 720.0 | 722.0 | 721.0 |
| 60° | 651.0 | 662.0 | 670.0 | 680.0 | 686.0 | 689.0 | 690.0 | 690.0 |
| 62.5° | 612.0 | 627.0 | 636.0 | 648.0 | 651.0 | 655.0 | 656.0 | 659.0 |
| 65° | 580.0 | 591.0 | 603.0 | 609.0 | 617.0 | 619.0 | 622.0 | 621.0 |
| 67.5° | 541.0 | 556.0 | 565.0 | 574.0 | 582.0 | 585.0 | 585.0 | 587.0 |
| 70° | 501.0 | 517.0 | 526.0 | 537.0 | 542.0 | 548.0 | 551.0 | 550.0 |
| 72.5° | 464.0 | 477.0 | 489.0 | 498.0 | 505.0 | 509.0 | 510.0 | 512.0 |
| 75° | 426.0 | 439.0 | 450.0 | 459.0 | 468.0 | 471.0 | 474.0 | 476.0 |
| 77.5° | 385.0 | 397.0 | 412.0 | 422.0 | 428.0 | 434.0 | 436.0 | 436.0 |
| 80° | 347.0 | 361.0 | 373.0 | 384.0 | 390.0 | 396.0 | 400.0 | 398.0 |
| 82.5° | 311.0 | 326.0 | 341.0 | 350.0 | 357.0 | 363.0 | 365.0 | 364.0 |
| 85° | 283.0 | 298.0 | 310.0 | 320.0 | 328.0 | 334.0 | 336.0 | 337.0 |
| 87.5° | 261.0 | 276.0 | 289.0 | 299.0 | 306.0 | 311.0 | 313.0 | 315.0 |
| 90° | 249.0 | 264.0 | 277.0 | 287.0 | 294.0 | 299.0 | 302.0 | 303.0 |
| 92.5° | 244.0 | 259.0 | 271.0 | 281.0 | 289.0 | 294.0 | 296.0 | 297.0 |
| 95° | 241.0 | 255.0 | 268.0 | 278.0 | 285.0 | 290.0 | 293.0 | 294.0 |
| 97.5° | 237.0 | 252.0 | 264.0 | 274.0 | 281.0 | 287.0 | 289.0 | 290.0 |
| 100° | 232.0 | 247.0 | 259.0 | 269.0 | 276.0 | 281.0 | 284.0 | 284.0 |
| 102.5° | 227.0 | 242.0 | 254.0 | 264.0 | 271.0 | 276.0 | 278.0 | 279.0 |
| 105° | 222.0 | 236.0 | 248.0 | 257.0 | 264.0 | 269.0 | 272.0 | 272.0 |
| 107.5° | 216.0 | 230.0 | 241.0 | 251.0 | 258.0 | 262.0 | 265.0 | 266.0 |
| 110° | 210.0 | 223.0 | 235.0 | 244.0 | 251.0 | 255.0 | 258.0 | 258.0 |



TEST NUMBER: P232074

CATALOG NUMBER: FVS4M-3-LD4-40-2HI-PFS125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 203.0 | 216.0 | 228.0 | 236.0 | 243.0 | 248.0 | 250.0 | 250.0 |
| 115° | 196.0 | 209.0 | 220.0 | 228.0 | 235.0 | 239.0 | 242.0 | 242.0 |
| 117.5° | 189.0 | 202.0 | 212.0 | 220.0 | 226.0 | 231.0 | 233.0 | 234.0 |
| 120° | 181.0 | 193.0 | 204.0 | 212.0 | 218.0 | 222.0 | 224.0 | 224.0 |
| 122.5° | 173.0 | 185.0 | 196.0 | 203.0 | 209.0 | 212.0 | 215.0 | 216.0 |
| 125° | 165.0 | 177.0 | 187.0 | 193.0 | 199.0 | 203.0 | 205.0 | 206.0 |
| 127.5° | 157.0 | 167.0 | 177.0 | 184.0 | 189.0 | 193.0 | 195.0 | 195.0 |
| 130° | 148.0 | 158.0 | 167.0 | 174.0 | 179.0 | 182.0 | 184.0 | 185.0 |
| 132.5° | 139.0 | 149.0 | 157.0 | 164.0 | 169.0 | 172.0 | 173.0 | 174.0 |
| 135° | 130.0 | 139.0 | 146.0 | 153.0 | 158.0 | 160.0 | 162.0 | 163.0 |
| 137.5° | 120.0 | 129.0 | 137.0 | 143.0 | 146.0 | 149.0 | 150.0 | 151.0 |
| 140° | 111.0 | 119.0 | 126.0 | 131.0 | 135.0 | 137.0 | 139.0 | 139.0 |
| 142.5° | 101.0 | 109.0 | 115.0 | 120.0 | 123.0 | 126.0 | 128.0 | 127.0 |
| 145° | 91.0 | 99.0 | 104.0 | 109.0 | 112.0 | 114.0 | 115.0 | 116.0 |
| 147.5° | 81.0 | 88.0 | 93.0 | 98.0 | 100.0 | 102.0 | 103.0 | 102.0 |
| 150° | 68.0 | 76.0 | 82.0 | 86.0 | 88.0 | 90.0 | 91.0 | 90.0 |
| 152.5° | 57.0 | 65.0 | 71.0 | 74.0 | 76.0 | 77.0 | 78.0 | 78.0 |
| 155° | 46.0 | 52.0 | 58.0 | 62.0 | 64.0 | 65.0 | 66.0 | 67.0 |
| 157.5° | 36.0 | 41.0 | 44.0 | 50.0 | 53.0 | 53.0 | 53.0 | 53.0 |
| 160° | 27.0 | 30.0 | 33.0 | 37.0 | 40.0 | 41.0 | 41.0 | 41.0 |
| 162.5° | 18.0 | 20.0 | 22.0 | 25.0 | 27.0 | 29.0 | 29.0 | 29.0 |
| 165° | 10.0 | 11.0 | 13.0 | 14.0 | 14.0 | 17.0 | 18.0 | 17.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)