

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: P241610

Luminaire Tested: **FVS8M-4-LD4-35-2LO-O-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-410-39)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS8M-4-LD4-35-2LO-O-UNV-EDC1
Description: FAILSAFE FVS8M LED FIXTURE
4FT LENGTH, 2-MODULE LED WITH OPAL LENS
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

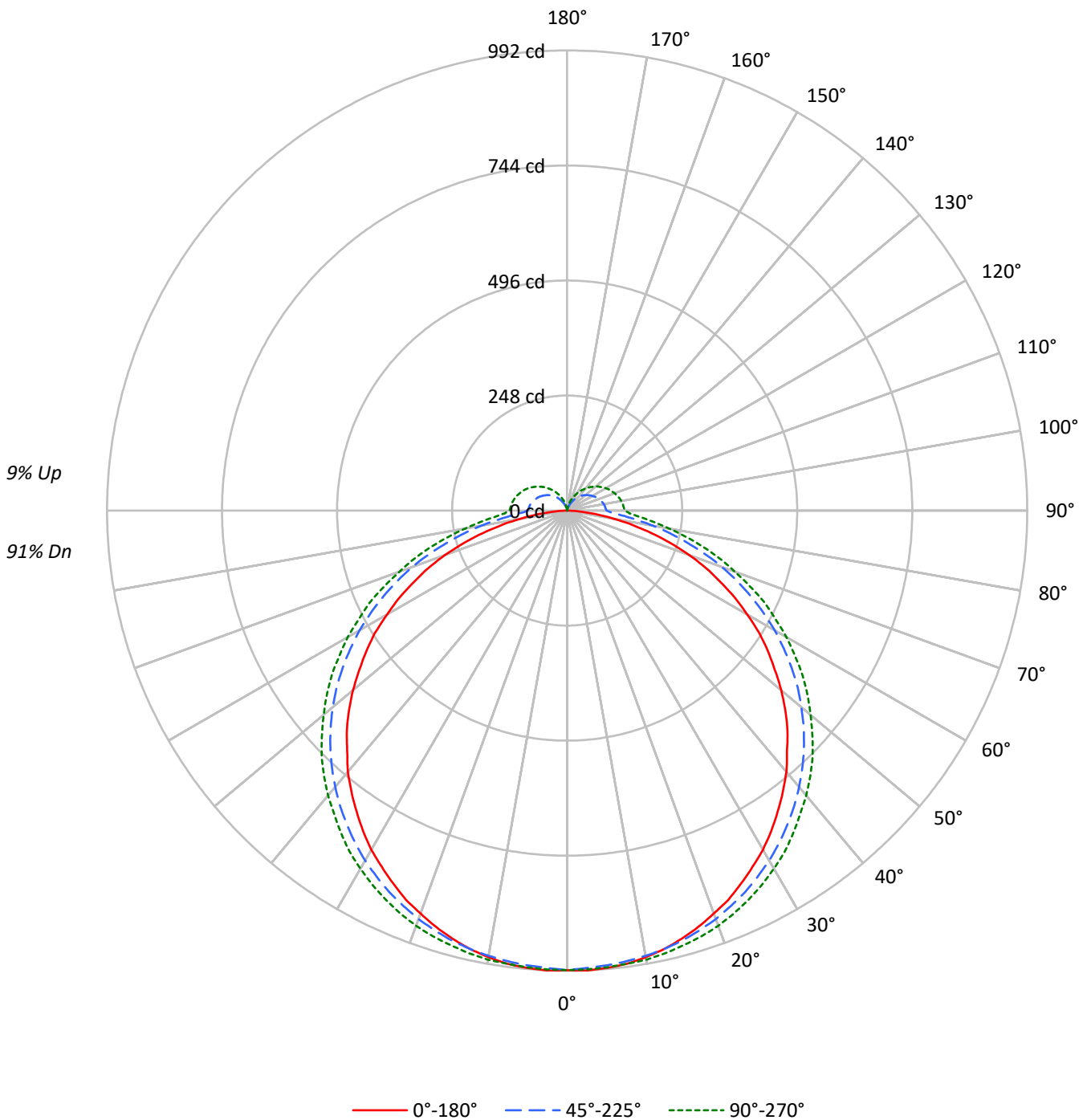
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3518.0 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.34 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 3.73' x H: 0.15')
CIE Type: Direct

Input Watts (W): 45.5
Input Voltage (V): 120
Input Current (A_{in}): 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: P241610
CATALOG NUMBER: FVS8M-4-LD4-35-2LO-O-UNV-EDC1

Luminous Intensity Polar Plot





TEST NUMBER: P241610

CATALOG NUMBER: FVS8M-4-LD4-35-2LO-O-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 | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 106 | 106 | 106 | 100 | 100 | 100 | 94 | 94 | 94 | 91 |
| 1 | 106 | 100 | 96 | 92 | 102 | 97 | 93 | 89 | 91 | 88 | 85 | 86 | 83 | 80 | 81 | 79 | 77 | 74 |
| 2 | 95 | 87 | 80 | 73 | 92 | 84 | 77 | 72 | 79 | 74 | 69 | 74 | 70 | 66 | 70 | 66 | 63 | 60 |
| 3 | 87 | 76 | 67 | 60 | 83 | 73 | 66 | 59 | 69 | 63 | 57 | 65 | 60 | 55 | 61 | 57 | 53 | 50 |
| 4 | 79 | 67 | 58 | 51 | 76 | 65 | 56 | 50 | 61 | 54 | 48 | 58 | 52 | 47 | 54 | 49 | 45 | 42 |
| 5 | 73 | 59 | 50 | 43 | 70 | 58 | 49 | 43 | 55 | 47 | 41 | 52 | 45 | 40 | 49 | 43 | 39 | 36 |
| 6 | 67 | 53 | 44 | 38 | 64 | 52 | 43 | 37 | 49 | 42 | 36 | 47 | 40 | 35 | 44 | 38 | 34 | 32 |
| 7 | 62 | 48 | 39 | 33 | 60 | 47 | 39 | 33 | 45 | 37 | 32 | 42 | 36 | 31 | 40 | 34 | 30 | 28 |
| 8 | 58 | 44 | 35 | 29 | 55 | 43 | 35 | 29 | 41 | 33 | 28 | 39 | 32 | 27 | 37 | 31 | 27 | 25 |
| 9 | 54 | 40 | 32 | 26 | 52 | 39 | 31 | 26 | 37 | 30 | 25 | 36 | 29 | 25 | 34 | 28 | 24 | 22 |
| 10 | 50 | 37 | 29 | 24 | 49 | 36 | 28 | 23 | 34 | 28 | 23 | 33 | 27 | 22 | 32 | 26 | 22 | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4428 | 4428 | 4428 |
| 5° | 4424 | 4344 | 4348 |
| 10° | 4406 | 4282 | 4290 |
| 15° | 4375 | 4228 | 4231 |
| 20° | 4334 | 4172 | 4186 |
| 25° | 4297 | 4116 | 4129 |
| 30° | 4260 | 4057 | 4070 |
| 35° | 4203 | 3991 | 4002 |
| 40° | 4154 | 3921 | 3932 |
| 45° | 4087 | 3844 | 3859 |
| 50° | 4003 | 3748 | 3753 |
| 55° | 3899 | 3630 | 3652 |
| 60° | 3751 | 3489 | 3510 |
| 65° | 3554 | 3295 | 3346 |
| 70° | 3297 | 3056 | 3102 |
| 75° | 2840 | 2724 | 2853 |
| 80° | 2193 | 2330 | 2519 |
| 85° | 1166 | 1925 | 2253 |



TEST NUMBER: P241610

CATALOG NUMBER: FVS8M-4-LD4-35-2LO-O-UNV-EDC1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.0 | 2.7 |
| 10°-20° | 271.7 | 7.7 |
| 20°-30° | 418.6 | 11.9 |
| 30°-40° | 516.2 | 14.7 |
| 40°-50° | 552.7 | 15.7 |
| 50°-60° | 521.2 | 14.8 |
| 60°-70° | 423.6 | 12.0 |
| 70°-80° | 274.5 | 7.8 |
| 80°-90° | 125.5 | 3.6 |
| 90°-100° | 80.0 | 2.3 |
| 100°-110° | 72.2 | 2.1 |
| 110°-120° | 60.4 | 1.7 |
| 120°-130° | 46.5 | 1.3 |
| 130°-140° | 32.0 | 0.9 |
| 140°-150° | 18.5 | 0.5 |
| 150°-160° | 8.2 | 0.2 |
| 160°-170° | 2.1 | 0.1 |
| 170°-180° | 0.1 | 0.0 |
| 0°-30° | 784.3 | 22.3 |
| 0°-40° | 1300.5 | 37.0 |
| 0°-60° | 2374.4 | 67.5 |
| 0°-90° | 3198.0 | 90.9 |
| 90°-120° | 212.6 | 6.0 |
| 90°-150° | 309.6 | 8.8 |
| 90°-180° | 320.0 | 9.1 |
| 0°-180° | 3518.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 991 | 991 | 991 | 991 | 991 | |
| 5° | 990 | 989 | 984 | 988 | 988 | 94 |
| 15° | 955 | 957 | 960 | 969 | 970 | 270 |
| 25° | 887 | 894 | 908 | 922 | 926 | 409 |
| 35° | 792 | 806 | 827 | 845 | 850 | 496 |
| 45° | 672 | 693 | 722 | 741 | 748 | 518 |
| 55° | 528 | 556 | 590 | 612 | 620 | 472 |
| 65° | 364 | 398 | 437 | 460 | 470 | 361 |
| 75° | 188 | 226 | 268 | 294 | 304 | 200 |
| 85° | 33 | 74 | 118 | 147 | 157 | 43 |
| 90° | 1 | 40 | 85 | 114 | 124 | 2 |
| 95° | 1 | 38 | 83 | 112 | 121 | 0 |
| 105° | 1 | 35 | 77 | 105 | 114 | 1 |
| 115° | 1 | 30 | 68 | 94 | 104 | 1 |
| 125° | 1 | 24 | 57 | 80 | 88 | 1 |
| 135° | 1 | 18 | 46 | 65 | 72 | 0 |
| 145° | 1 | 11 | 32 | 47 | 53 | 0 |
| 155° | 1 | 6 | 17 | 30 | 33 | 1 |
| 165° | 1 | 2 | 7 | 11 | 14 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P241610

CATALOG NUMBER: FVS8M-4-LD4-35-2LO-O-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 990.7 | 990.7 | 990.7 | 990.7 | 990.7 | 990.7 | 990.7 | 990.7 | 990.7 | 990.7 | 990.7 |
| 2.5° | 992.5 | 992.5 | 991.9 | 991.3 | 991.3 | 991.9 | 991.9 | 991.3 | 989.5 | 987.1 | 986.6 |
| 5° | 989.5 | 988.9 | 989.5 | 988.3 | 988.9 | 988.9 | 988.3 | 988.3 | 986.6 | 985.4 | 984.2 |
| 7.5° | 985.4 | 984.8 | 984.2 | 983.6 | 983.6 | 984.2 | 983.6 | 983.6 | 982.4 | 980.6 | 980.0 |
| 10° | 977.6 | 977.0 | 977.6 | 976.4 | 976.4 | 977.0 | 977.6 | 977.6 | 976.4 | 975.8 | 974.6 |
| 12.5° | 968.0 | 968.0 | 967.4 | 966.8 | 967.4 | 968.0 | 968.6 | 968.6 | 968.0 | 968.6 | 968.0 |
| 15° | 955.4 | 956.0 | 954.8 | 954.2 | 956.6 | 956.6 | 957.8 | 959.0 | 959.0 | 958.4 | 959.6 |
| 17.5° | 941.1 | 941.1 | 941.1 | 941.7 | 942.3 | 943.5 | 944.7 | 945.9 | 946.5 | 947.7 | 948.9 |
| 20° | 924.3 | 925.5 | 925.5 | 926.1 | 928.5 | 930.3 | 930.3 | 933.3 | 933.9 | 934.5 | 936.9 |
| 22.5° | 908.2 | 907.6 | 907.6 | 908.8 | 911.8 | 913.6 | 915.4 | 917.2 | 918.3 | 920.1 | 922.5 |
| 25° | 887.2 | 887.8 | 888.4 | 890.2 | 893.8 | 893.8 | 896.8 | 899.2 | 901.6 | 904.0 | 907.6 |
| 27.5° | 865.7 | 866.9 | 867.5 | 869.3 | 873.5 | 875.9 | 877.7 | 880.7 | 883.0 | 886.0 | 889.6 |
| 30° | 844.2 | 844.2 | 844.8 | 847.2 | 851.3 | 854.3 | 856.1 | 859.7 | 863.3 | 867.5 | 871.1 |
| 32.5° | 819.0 | 819.0 | 819.6 | 823.8 | 828.0 | 831.0 | 834.0 | 837.6 | 841.2 | 845.4 | 850.1 |
| 35° | 791.5 | 790.9 | 792.7 | 798.7 | 802.9 | 806.5 | 810.1 | 814.2 | 819.0 | 823.2 | 827.4 |
| 37.5° | 764.0 | 764.6 | 765.2 | 771.2 | 777.8 | 779.5 | 783.7 | 787.9 | 792.7 | 797.5 | 803.5 |
| 40° | 735.3 | 735.3 | 737.7 | 741.9 | 749.6 | 752.6 | 756.2 | 761.6 | 765.8 | 772.4 | 777.8 |
| 42.5° | 701.8 | 704.8 | 707.8 | 712.5 | 720.3 | 723.9 | 727.5 | 734.1 | 739.5 | 743.7 | 750.8 |
| 45° | 671.9 | 672.5 | 675.4 | 682.6 | 689.8 | 693.4 | 698.2 | 704.8 | 711.3 | 716.1 | 722.1 |
| 47.5° | 638.4 | 638.4 | 642.5 | 649.1 | 657.5 | 661.7 | 665.9 | 672.5 | 678.4 | 686.8 | 691.6 |
| 50° | 602.5 | 603.7 | 608.4 | 616.8 | 625.2 | 627.6 | 631.8 | 640.7 | 646.1 | 652.7 | 659.3 |
| 52.5° | 564.8 | 567.2 | 573.7 | 580.9 | 588.1 | 593.5 | 597.1 | 606.6 | 613.2 | 619.8 | 626.4 |
| 55° | 528.3 | 528.9 | 534.3 | 543.8 | 552.8 | 556.4 | 562.4 | 570.2 | 577.3 | 584.5 | 590.5 |
| 57.5° | 491.2 | 490.0 | 496.6 | 506.7 | 515.7 | 518.7 | 524.1 | 533.7 | 540.8 | 547.4 | 554.0 |
| 60° | 448.1 | 451.1 | 457.1 | 466.7 | 476.2 | 479.2 | 484.0 | 494.8 | 501.4 | 509.1 | 516.9 |
| 62.5° | 408.6 | 409.2 | 418.8 | 426.0 | 436.1 | 442.1 | 445.1 | 454.1 | 461.3 | 469.6 | 476.8 |
| 65° | 364.3 | 369.7 | 375.1 | 383.5 | 393.7 | 398.4 | 402.0 | 414.0 | 421.8 | 429.6 | 436.7 |
| 67.5° | 324.3 | 326.1 | 333.2 | 342.2 | 352.4 | 356.6 | 362.6 | 370.9 | 379.9 | 386.5 | 396.1 |
| 70° | 279.4 | 281.2 | 287.8 | 298.5 | 308.1 | 314.1 | 318.9 | 328.5 | 336.8 | 345.2 | 354.2 |
| 72.5° | 234.5 | 236.3 | 244.7 | 254.3 | 265.6 | 269.2 | 274.6 | 284.8 | 293.8 | 302.7 | 312.3 |
| 75° | 188.5 | 193.2 | 202.2 | 210.6 | 222.0 | 226.1 | 232.7 | 244.1 | 253.1 | 260.8 | 268.0 |
| 77.5° | 145.4 | 152.0 | 159.1 | 168.1 | 178.3 | 184.3 | 189.7 | 200.4 | 210.0 | 220.2 | 227.9 |
| 80° | 104.1 | 108.9 | 116.7 | 125.6 | 137.0 | 144.8 | 149.0 | 159.1 | 168.1 | 177.7 | 186.7 |
| 82.5° | 67.6 | 70.0 | 77.8 | 89.1 | 99.9 | 105.9 | 111.3 | 122.0 | 131.0 | 140.0 | 149.0 |
| 85° | 32.9 | 37.1 | 44.9 | 56.8 | 67.6 | 73.6 | 79.0 | 89.7 | 99.3 | 109.5 | 117.9 |
| 87.5° | 10.8 | 15.6 | 23.3 | 33.5 | 44.9 | 50.3 | 55.6 | 66.4 | 76.6 | 85.6 | 95.1 |
| 90° | 0.6 | 4.2 | 12.6 | 23.3 | 34.1 | 40.1 | 45.5 | 56.2 | 66.4 | 76.0 | 85.0 |
| 92.5° | 0.6 | 3.6 | 12.0 | 22.1 | 32.9 | 38.9 | 44.3 | 55.0 | 65.2 | 74.8 | 83.2 |
| 95° | 0.6 | 3.6 | 11.4 | 21.5 | 32.3 | 37.7 | 43.7 | 53.8 | 64.0 | 73.6 | 82.6 |
| 97.5° | 0.6 | 3.6 | 10.8 | 20.9 | 31.7 | 37.1 | 42.5 | 53.2 | 63.4 | 73.0 | 81.4 |
| 100° | 0.6 | 3.0 | 10.8 | 20.3 | 31.1 | 36.5 | 41.9 | 52.0 | 62.2 | 71.2 | 80.2 |
| 102.5° | 0.6 | 3.0 | 10.2 | 19.7 | 29.9 | 35.3 | 40.7 | 50.9 | 60.4 | 69.4 | 78.4 |
| 105° | 0.6 | 3.0 | 10.2 | 19.1 | 29.3 | 34.7 | 39.5 | 49.7 | 59.2 | 68.2 | 76.6 |
| 107.5° | 0.6 | 3.0 | 9.6 | 18.5 | 28.1 | 33.5 | 38.3 | 47.9 | 57.4 | 66.4 | 74.8 |
| 110° | 0.6 | 2.4 | 9.0 | 17.9 | 27.5 | 32.3 | 37.1 | 46.7 | 55.6 | 64.6 | 72.4 |



TEST NUMBER: P241610

CATALOG NUMBER: FVS8M-4-LD4-35-2LO-O-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-----|-----|-----|------|------|-------|------|------|------|------|------|
| 112.5° | 0.6 | 2.4 | 9.0 | 17.3 | 26.3 | 31.1 | 35.9 | 44.9 | 53.8 | 62.2 | 70.6 |
| 115° | 0.6 | 2.4 | 8.4 | 16.2 | 25.1 | 29.9 | 34.7 | 43.7 | 52.0 | 60.4 | 68.2 |
| 117.5° | 0.6 | 1.8 | 7.8 | 15.6 | 23.9 | 28.7 | 32.9 | 41.9 | 50.3 | 58.0 | 65.8 |
| 120° | 0.6 | 1.8 | 7.2 | 15.0 | 22.7 | 27.5 | 31.7 | 40.1 | 47.9 | 56.2 | 62.8 |
| 122.5° | 0.6 | 1.8 | 6.6 | 13.8 | 22.1 | 25.7 | 29.9 | 38.3 | 46.1 | 53.8 | 60.4 |
| 125° | 0.6 | 1.2 | 6.6 | 13.2 | 20.9 | 24.5 | 28.7 | 36.5 | 43.7 | 50.9 | 57.4 |
| 127.5° | 0.6 | 1.2 | 6.0 | 12.6 | 19.7 | 23.3 | 26.9 | 34.1 | 41.9 | 48.5 | 55.0 |
| 130° | 0.6 | 1.2 | 5.4 | 11.4 | 17.9 | 21.5 | 25.1 | 32.3 | 38.9 | 46.1 | 52.0 |
| 132.5° | 0.6 | 1.2 | 4.8 | 10.2 | 16.8 | 19.7 | 23.3 | 30.5 | 37.1 | 43.1 | 49.1 |
| 135° | 0.6 | 1.2 | 4.2 | 9.0 | 15.0 | 17.9 | 21.5 | 27.5 | 34.1 | 40.1 | 46.1 |
| 137.5° | 0.6 | 1.2 | 3.6 | 8.4 | 13.2 | 16.2 | 19.1 | 25.1 | 31.1 | 37.1 | 42.5 |
| 140° | 0.6 | 0.6 | 3.0 | 7.2 | 12.0 | 14.4 | 17.3 | 22.7 | 28.1 | 33.5 | 38.9 |
| 142.5° | 0.6 | 0.6 | 2.4 | 6.0 | 10.8 | 12.6 | 15.6 | 20.3 | 25.1 | 30.5 | 35.3 |
| 145° | 0.6 | 0.6 | 1.8 | 5.4 | 9.0 | 11.4 | 13.8 | 17.9 | 22.1 | 26.9 | 31.7 |
| 147.5° | 0.6 | 0.6 | 1.8 | 4.2 | 7.8 | 9.6 | 11.4 | 15.6 | 19.7 | 23.9 | 27.5 |
| 150° | 1.2 | 1.2 | 1.8 | 3.6 | 6.6 | 8.4 | 10.2 | 13.8 | 17.3 | 20.9 | 23.9 |
| 152.5° | 1.2 | 1.2 | 1.2 | 3.0 | 5.4 | 7.2 | 8.4 | 11.4 | 14.4 | 17.9 | 20.9 |
| 155° | 1.2 | 1.2 | 1.2 | 2.4 | 4.8 | 6.0 | 7.2 | 9.6 | 12.0 | 15.0 | 17.3 |
| 157.5° | 1.2 | 1.2 | 1.2 | 1.8 | 3.6 | 4.8 | 5.4 | 7.8 | 10.2 | 12.0 | 14.4 |
| 160° | 1.2 | 1.2 | 1.2 | 1.8 | 3.0 | 3.6 | 4.2 | 6.0 | 7.8 | 9.6 | 11.4 |
| 162.5° | 1.2 | 1.2 | 1.2 | 1.2 | 2.4 | 3.0 | 3.6 | 4.8 | 6.0 | 7.8 | 9.0 |
| 165° | 1.2 | 1.2 | 1.2 | 1.2 | 1.8 | 1.8 | 2.4 | 3.6 | 4.2 | 5.4 | 6.6 |
| 167.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.8 | 1.8 | 2.4 | 3.0 | 3.6 | 4.2 |
| 170° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.8 | 1.8 | 2.4 | 2.4 |
| 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: P241610

CATALOG NUMBER: FVS8M-4-LD4-35-2LO-O-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 990.7 | 990.7 | 990.7 | 990.7 | 990.7 | 990.7 | 990.7 | 990.7 | 990.7 | 990.7 |
| 2.5° | 987.7 | 988.3 | 989.5 | 990.7 | 990.1 | 990.1 | 990.7 | 990.1 | 990.7 | 990.1 |
| 5° | 984.2 | 986.0 | 987.1 | 988.3 | 988.3 | 988.3 | 988.3 | 988.3 | 988.3 | 988.3 |
| 7.5° | 980.6 | 981.8 | 983.6 | 985.4 | 985.4 | 986.0 | 986.0 | 985.4 | 986.0 | 985.4 |
| 10° | 975.8 | 978.2 | 980.0 | 981.2 | 981.8 | 981.8 | 982.4 | 982.4 | 982.4 | 983.0 |
| 12.5° | 969.2 | 971.6 | 974.0 | 975.8 | 976.4 | 975.8 | 977.0 | 977.6 | 977.0 | 977.6 |
| 15° | 961.4 | 963.2 | 966.8 | 968.0 | 968.6 | 969.2 | 969.8 | 970.4 | 970.4 | 969.8 |
| 17.5° | 951.3 | 954.2 | 956.0 | 959.6 | 959.6 | 960.2 | 961.4 | 962.0 | 961.4 | 962.6 |
| 20° | 939.9 | 942.9 | 945.9 | 948.3 | 948.3 | 949.5 | 950.7 | 951.3 | 952.4 | 952.4 |
| 22.5° | 926.1 | 929.7 | 933.3 | 935.7 | 936.9 | 936.9 | 938.7 | 939.3 | 940.5 | 939.9 |
| 25° | 910.6 | 915.4 | 918.9 | 920.7 | 922.5 | 923.1 | 924.3 | 924.9 | 924.9 | 925.5 |
| 27.5° | 893.8 | 897.4 | 901.6 | 904.6 | 906.4 | 906.4 | 908.2 | 908.8 | 908.8 | 909.4 |
| 30° | 874.7 | 880.1 | 883.0 | 886.0 | 886.6 | 887.8 | 889.6 | 890.2 | 892.0 | 891.4 |
| 32.5° | 854.3 | 859.1 | 862.7 | 865.1 | 867.5 | 868.1 | 869.3 | 871.1 | 871.1 | 872.3 |
| 35° | 832.8 | 836.4 | 840.0 | 843.6 | 844.8 | 846.6 | 848.3 | 848.9 | 850.1 | 849.5 |
| 37.5° | 808.9 | 813.7 | 817.2 | 818.4 | 821.4 | 822.6 | 825.0 | 825.6 | 826.2 | 825.0 |
| 40° | 783.1 | 787.3 | 792.1 | 794.5 | 796.3 | 796.9 | 799.9 | 800.5 | 801.1 | 801.7 |
| 42.5° | 756.2 | 761.6 | 765.2 | 768.2 | 770.0 | 770.6 | 773.6 | 773.6 | 775.4 | 776.0 |
| 45° | 727.5 | 732.9 | 737.1 | 740.7 | 741.3 | 743.1 | 745.4 | 746.6 | 746.0 | 748.4 |
| 47.5° | 697.6 | 703.0 | 707.2 | 710.1 | 710.7 | 711.9 | 714.9 | 715.5 | 716.7 | 717.3 |
| 50° | 664.7 | 670.1 | 674.9 | 678.4 | 679.6 | 681.4 | 683.8 | 685.0 | 685.6 | 685.0 |
| 52.5° | 632.4 | 637.8 | 640.7 | 645.5 | 647.3 | 646.7 | 650.3 | 652.7 | 652.1 | 653.3 |
| 55° | 597.7 | 602.5 | 607.2 | 610.8 | 612.0 | 613.8 | 616.2 | 616.8 | 618.0 | 619.8 |
| 57.5° | 559.4 | 567.8 | 571.3 | 573.1 | 575.5 | 577.3 | 578.5 | 582.7 | 582.7 | 582.1 |
| 60° | 522.3 | 528.3 | 533.1 | 537.2 | 538.4 | 540.8 | 543.2 | 545.0 | 545.0 | 546.2 |
| 62.5° | 484.6 | 490.0 | 494.8 | 498.4 | 499.0 | 502.0 | 504.9 | 506.1 | 506.7 | 506.1 |
| 65° | 444.5 | 448.1 | 455.9 | 457.7 | 460.1 | 463.1 | 464.9 | 466.7 | 467.8 | 469.6 |
| 67.5° | 402.6 | 408.0 | 414.0 | 418.8 | 421.2 | 422.4 | 424.8 | 426.6 | 427.8 | 426.6 |
| 70° | 361.4 | 366.7 | 371.5 | 376.3 | 378.7 | 379.3 | 381.7 | 384.1 | 385.3 | 384.7 |
| 72.5° | 318.9 | 324.9 | 330.8 | 334.4 | 336.8 | 338.6 | 342.8 | 343.4 | 343.4 | 345.8 |
| 75° | 276.4 | 283.0 | 289.0 | 293.8 | 294.3 | 296.7 | 299.1 | 301.5 | 305.1 | 304.5 |
| 77.5° | 234.5 | 241.7 | 246.5 | 250.7 | 253.7 | 256.1 | 258.5 | 260.2 | 261.4 | 263.2 |
| 80° | 195.0 | 202.8 | 206.4 | 211.8 | 214.2 | 216.6 | 219.0 | 222.0 | 224.4 | 223.2 |
| 82.5° | 156.7 | 165.1 | 171.1 | 176.5 | 177.7 | 181.9 | 183.1 | 185.5 | 186.1 | 187.9 |
| 85° | 125.6 | 133.4 | 138.8 | 145.4 | 146.6 | 149.6 | 152.6 | 154.4 | 155.6 | 157.3 |
| 87.5° | 102.9 | 110.1 | 116.1 | 122.0 | 123.8 | 125.6 | 129.2 | 132.2 | 133.4 | 134.6 |
| 90° | 92.7 | 99.9 | 106.5 | 111.9 | 114.3 | 116.1 | 119.7 | 122.6 | 123.8 | 124.4 |
| 92.5° | 91.5 | 98.7 | 104.7 | 110.1 | 112.5 | 114.9 | 118.5 | 120.9 | 122.0 | 122.6 |
| 95° | 90.3 | 97.5 | 104.1 | 109.5 | 111.9 | 113.7 | 117.3 | 119.7 | 120.9 | 121.4 |
| 97.5° | 89.1 | 96.3 | 102.9 | 108.3 | 110.7 | 112.5 | 116.1 | 118.5 | 119.7 | 120.3 |
| 100° | 87.9 | 95.1 | 101.1 | 106.5 | 108.9 | 110.7 | 114.3 | 116.7 | 117.9 | 118.5 |
| 102.5° | 86.2 | 93.3 | 99.3 | 104.7 | 107.1 | 108.9 | 111.9 | 114.9 | 116.1 | 116.7 |
| 105° | 84.4 | 90.9 | 96.9 | 102.3 | 104.7 | 106.5 | 110.1 | 112.5 | 113.7 | 114.3 |
| 107.5° | 82.0 | 89.1 | 94.5 | 99.9 | 102.3 | 104.1 | 107.7 | 109.5 | 111.3 | 111.9 |
| 110° | 80.2 | 86.7 | 92.1 | 97.5 | 99.9 | 101.7 | 104.7 | 107.1 | 108.3 | 108.9 |



TEST NUMBER: P241610

CATALOG NUMBER: FVS8M-4-LD4-35-2LO-O-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|------|------|------|------|-------|------|-------|-------|-------|-------|
| 112.5° | 77.8 | 84.4 | 89.7 | 94.5 | 96.9 | 98.7 | 102.3 | 104.1 | 105.9 | 105.9 |
| 115° | 74.8 | 81.4 | 86.7 | 91.5 | 93.9 | 95.7 | 98.7 | 101.1 | 102.3 | 103.5 |
| 117.5° | 72.4 | 78.4 | 84.4 | 88.5 | 90.9 | 92.7 | 95.7 | 98.1 | 99.3 | 99.9 |
| 120° | 70.0 | 76.0 | 80.8 | 85.6 | 87.3 | 89.1 | 92.1 | 94.5 | 95.7 | 96.3 |
| 122.5° | 67.0 | 73.0 | 77.8 | 82.0 | 83.8 | 85.6 | 88.5 | 90.9 | 92.1 | 92.7 |
| 125° | 64.0 | 69.4 | 74.2 | 78.4 | 80.2 | 82.0 | 85.0 | 86.7 | 87.9 | 88.5 |
| 127.5° | 61.0 | 66.4 | 71.2 | 74.8 | 76.6 | 78.4 | 80.8 | 83.2 | 84.4 | 85.0 |
| 130° | 57.4 | 62.8 | 67.6 | 71.2 | 73.0 | 74.2 | 76.6 | 79.0 | 80.2 | 80.8 |
| 132.5° | 54.4 | 59.2 | 63.4 | 67.6 | 68.8 | 70.6 | 72.4 | 74.8 | 76.0 | 76.0 |
| 135° | 50.9 | 55.6 | 59.8 | 63.4 | 64.6 | 66.4 | 68.8 | 70.6 | 71.2 | 71.8 |
| 137.5° | 47.9 | 52.0 | 56.2 | 59.2 | 60.4 | 62.2 | 64.0 | 65.8 | 67.0 | 67.0 |
| 140° | 44.3 | 48.5 | 52.0 | 55.0 | 56.2 | 57.4 | 59.8 | 61.0 | 62.2 | 62.2 |
| 142.5° | 40.1 | 44.3 | 47.9 | 50.9 | 52.0 | 53.2 | 55.0 | 56.8 | 57.4 | 57.4 |
| 145° | 35.9 | 40.7 | 43.7 | 46.7 | 47.3 | 48.5 | 50.3 | 51.5 | 52.6 | 52.6 |
| 147.5° | 31.7 | 35.9 | 39.5 | 41.9 | 43.1 | 44.3 | 45.5 | 46.7 | 47.9 | 47.9 |
| 150° | 28.1 | 31.7 | 35.3 | 37.7 | 38.9 | 39.5 | 41.3 | 41.9 | 42.5 | 43.1 |
| 152.5° | 23.9 | 26.9 | 30.5 | 33.5 | 34.1 | 34.7 | 36.5 | 37.7 | 37.7 | 38.3 |
| 155° | 19.7 | 22.7 | 25.1 | 28.1 | 29.9 | 30.5 | 31.7 | 32.3 | 32.9 | 32.9 |
| 157.5° | 16.8 | 19.1 | 20.9 | 23.3 | 24.5 | 25.7 | 26.9 | 28.1 | 28.1 | 28.1 |
| 160° | 13.2 | 15.0 | 16.8 | 18.5 | 19.7 | 20.9 | 22.7 | 22.7 | 23.3 | 23.9 |
| 162.5° | 10.2 | 11.4 | 13.2 | 14.4 | 15.6 | 16.2 | 17.9 | 18.5 | 18.5 | 18.5 |
| 165° | 7.2 | 8.4 | 9.6 | 10.8 | 10.8 | 11.4 | 13.2 | 13.8 | 13.8 | 14.4 |
| 167.5° | 4.8 | 5.4 | 6.6 | 7.2 | 7.2 | 7.8 | 8.4 | 10.2 | 9.6 | 9.6 |
| 170° | 3.0 | 3.0 | 3.6 | 4.2 | 4.2 | 4.2 | 4.8 | 5.4 | 6.0 | 6.0 |
| 172.5° | 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 |
| 177.5° | 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 |

(END OF REPORT)