

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: P241388

Luminaire Tested: **FVS8M-4-LD4-50-1STD-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-410-33)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS8M-4-LD4-50-1STD-P125-UNV-EDC1
Description: FAILSAFE FVS8M LED FIXTURE
4FT LENGTH, 1-MODULE LED WITH P125 LENS
Light Source: (84) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

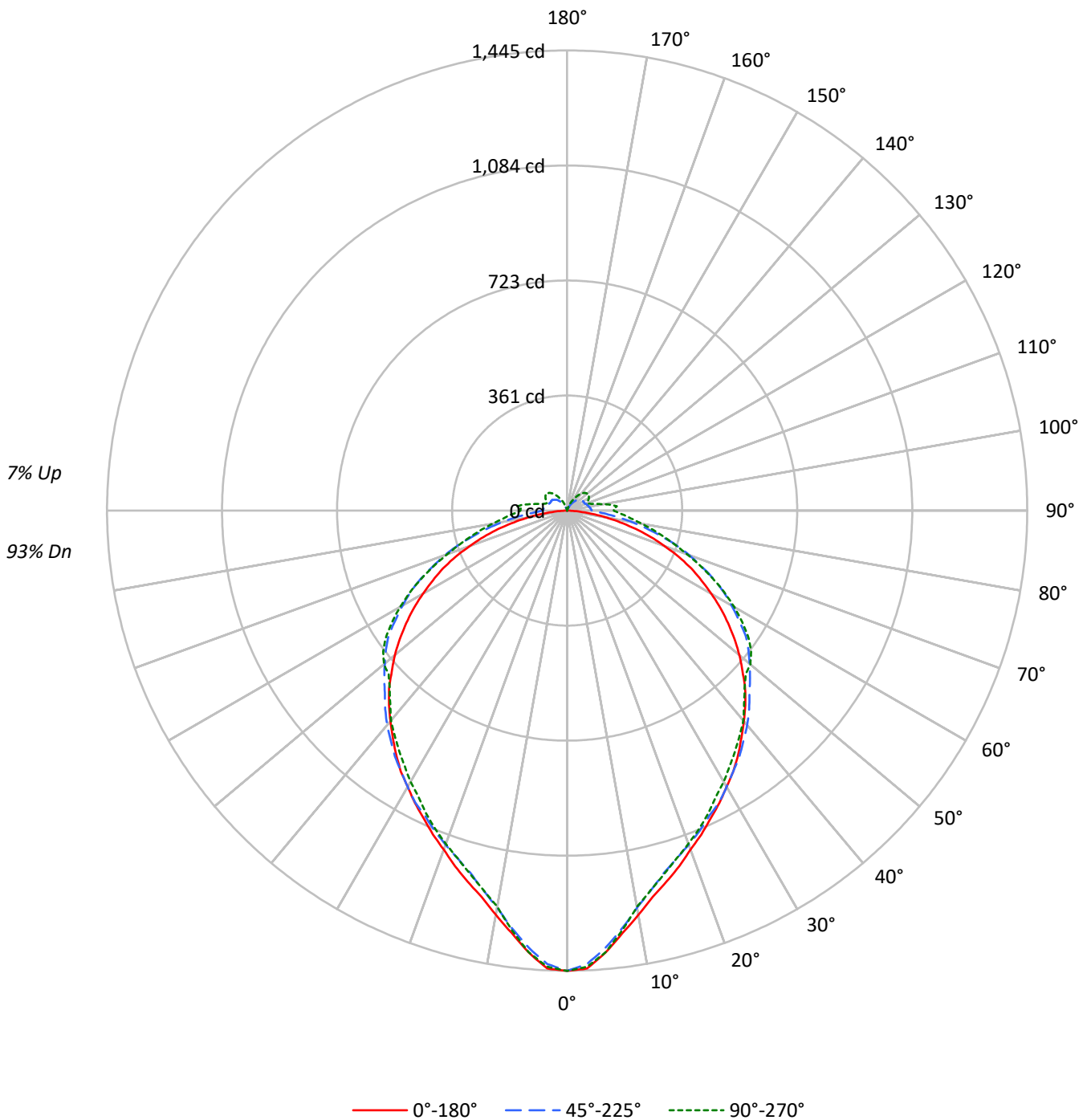
Lumens per Lamp: N/A
Luminaire Lumens: 3960.0 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.02 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 3.73' x H: 0.15')
CIE Type: Direct

Input Watts (W): 33.5
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: P241388

CATALOG NUMBER: FVS8M-4-LD4-50-1STD-P125-UNV-EDC1

Luminous Intensity Polar Plot





TEST NUMBER: P241388

CATALOG NUMBER: FVS8M-4-LD4-50-1STD-P125-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 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 95 | 95 | 95 | 93 |
| 1 | 106 | 101 | 96 | 92 | 103 | 98 | 94 | 90 | 92 | 89 | 86 | 87 | 85 | 82 | 83 | 80 | 78 | 76 |
| 2 | 96 | 88 | 80 | 74 | 93 | 85 | 78 | 73 | 80 | 75 | 70 | 76 | 71 | 67 | 72 | 68 | 65 | 62 |
| 3 | 87 | 77 | 68 | 61 | 84 | 74 | 67 | 60 | 70 | 64 | 58 | 67 | 61 | 56 | 63 | 59 | 55 | 52 |
| 4 | 80 | 68 | 59 | 52 | 77 | 66 | 57 | 51 | 62 | 55 | 49 | 59 | 53 | 48 | 56 | 51 | 47 | 44 |
| 5 | 73 | 60 | 51 | 44 | 71 | 59 | 50 | 44 | 56 | 48 | 43 | 53 | 47 | 42 | 50 | 45 | 40 | 38 |
| 6 | 68 | 54 | 45 | 39 | 65 | 53 | 44 | 38 | 50 | 43 | 37 | 48 | 41 | 36 | 46 | 40 | 35 | 33 |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 34 | 46 | 38 | 33 | 44 | 37 | 32 | 42 | 36 | 31 | 29 |
| 8 | 58 | 45 | 36 | 30 | 56 | 44 | 36 | 30 | 42 | 35 | 29 | 40 | 34 | 29 | 38 | 33 | 28 | 26 |
| 9 | 55 | 41 | 33 | 27 | 53 | 40 | 32 | 27 | 38 | 31 | 26 | 37 | 31 | 26 | 35 | 30 | 25 | 24 |
| 10 | 51 | 38 | 30 | 25 | 49 | 37 | 30 | 24 | 36 | 29 | 24 | 34 | 28 | 24 | 33 | 27 | 23 | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6460 | 6460 | 6460 |
| 5° | 6225 | 6086 | 6121 |
| 10° | 5810 | 5560 | 5512 |
| 15° | 5524 | 5185 | 5149 |
| 20° | 5313 | 4969 | 4893 |
| 25° | 5163 | 4793 | 4677 |
| 30° | 5052 | 4666 | 4489 |
| 35° | 4971 | 4547 | 4334 |
| 40° | 4877 | 4434 | 4222 |
| 45° | 4810 | 4308 | 4064 |
| 50° | 4692 | 4249 | 4114 |
| 55° | 4551 | 4207 | 4097 |
| 60° | 4377 | 4025 | 3892 |
| 65° | 4196 | 3830 | 3593 |
| 70° | 3828 | 3513 | 3222 |
| 75° | 3360 | 3065 | 2921 |
| 80° | 2597 | 2572 | 2679 |
| 85° | 1407 | 2013 | 2625 |



TEST NUMBER: P241388

CATALOG NUMBER: FVS8M-4-LD4-50-1STD-P125-UNV-EDC1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 128.7 | 3.3 |
| 10°-20° | 335.6 | 8.5 |
| 20°-30° | 489.2 | 12.4 |
| 30°-40° | 586.2 | 14.8 |
| 40°-50° | 620.1 | 15.7 |
| 50°-60° | 596.2 | 15.1 |
| 60°-70° | 479.3 | 12.1 |
| 70°-80° | 303.8 | 7.7 |
| 80°-90° | 134.2 | 3.4 |
| 90°-100° | 77.4 | 2.0 |
| 100°-110° | 59.1 | 1.5 |
| 110°-120° | 47.8 | 1.2 |
| 120°-130° | 43.6 | 1.1 |
| 130°-140° | 32.8 | 0.8 |
| 140°-150° | 18.6 | 0.5 |
| 150°-160° | 6.4 | 0.2 |
| 160°-170° | 0.9 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 953.5 | 24.1 |
| 0°-40° | 1539.8 | 38.9 |
| 0°-60° | 2756.0 | 69.6 |
| 0°-90° | 3673.3 | 92.8 |
| 90°-120° | 184.3 | 4.7 |
| 90°-150° | 279.3 | 7.1 |
| 90°-180° | 287.0 | 7.2 |
| 0°-180° | 3960.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1445 | 1445 | 1445 | 1445 | 1445 | |
| 5° | 1392 | 1387 | 1379 | 1394 | 1391 | 130 |
| 15° | 1206 | 1194 | 1177 | 1178 | 1180 | 340 |
| 25° | 1066 | 1068 | 1057 | 1057 | 1048 | 492 |
| 35° | 936 | 943 | 943 | 934 | 920 | 585 |
| 45° | 791 | 806 | 809 | 803 | 788 | 608 |
| 55° | 617 | 643 | 684 | 694 | 695 | 551 |
| 65° | 430 | 459 | 508 | 505 | 504 | 423 |
| 75° | 223 | 256 | 302 | 318 | 312 | 235 |
| 85° | 40 | 75 | 123 | 157 | 183 | 51 |
| 90° | 1 | 35 | 78 | 112 | 146 | 2 |
| 95° | 0 | 33 | 74 | 106 | 157 | 0 |
| 105° | 0 | 30 | 66 | 83 | 81 | 0 |
| 115° | 1 | 27 | 58 | 69 | 72 | 0 |
| 125° | 1 | 23 | 57 | 75 | 83 | 1 |
| 135° | 1 | 16 | 48 | 68 | 79 | 1 |
| 145° | 1 | 7 | 31 | 51 | 57 | 1 |
| 155° | 1 | 2 | 12 | 24 | 28 | 0 |
| 165° | 2 | 1 | 2 | 4 | 6 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P241388

CATALOG NUMBER: FVS8M-4-LD4-50-1STD-P125-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1445.4 | 1445.4 | 1445.4 | 1445.4 | 1445.4 | 1445.4 | 1445.4 | 1445.4 | 1445.4 | 1445.4 | 1445.4 |
| 2.5° | 1439.5 | 1436.1 | 1431.1 | 1433.6 | 1433.6 | 1434.4 | 1435.3 | 1435.3 | 1433.6 | 1431.1 | 1425.1 |
| 5° | 1392.2 | 1388.8 | 1382.9 | 1383.8 | 1384.6 | 1387.1 | 1388.0 | 1388.0 | 1384.6 | 1382.9 | 1378.7 |
| 7.5° | 1337.3 | 1333.9 | 1331.4 | 1331.4 | 1332.2 | 1333.1 | 1335.6 | 1331.4 | 1328.8 | 1327.2 | 1322.9 |
| 10° | 1289.1 | 1287.4 | 1279.8 | 1280.7 | 1279.0 | 1279.0 | 1280.7 | 1279.8 | 1274.8 | 1270.6 | 1265.5 |
| 12.5° | 1241.8 | 1239.3 | 1238.4 | 1236.8 | 1234.2 | 1233.4 | 1234.2 | 1233.4 | 1229.2 | 1224.9 | 1219.9 |
| 15° | 1206.3 | 1200.4 | 1197.9 | 1198.7 | 1194.5 | 1194.5 | 1193.7 | 1196.2 | 1190.3 | 1183.5 | 1176.8 |
| 17.5° | 1170.9 | 1167.5 | 1159.9 | 1161.6 | 1160.7 | 1162.4 | 1163.3 | 1162.4 | 1156.5 | 1149.7 | 1144.7 |
| 20° | 1132.9 | 1130.3 | 1131.2 | 1131.2 | 1127.8 | 1128.6 | 1129.5 | 1127.8 | 1122.7 | 1116.0 | 1116.0 |
| 22.5° | 1100.8 | 1096.5 | 1095.7 | 1093.1 | 1096.5 | 1097.4 | 1097.4 | 1098.2 | 1094.8 | 1089.8 | 1088.1 |
| 25° | 1066.1 | 1064.4 | 1062.7 | 1065.3 | 1067.0 | 1067.8 | 1067.8 | 1066.1 | 1063.6 | 1059.4 | 1056.8 |
| 27.5° | 1034.9 | 1029.8 | 1031.5 | 1034.0 | 1036.5 | 1039.9 | 1039.9 | 1035.7 | 1034.9 | 1029.8 | 1033.2 |
| 30° | 1001.1 | 996.8 | 997.7 | 1000.2 | 1004.4 | 1007.8 | 1007.8 | 1010.4 | 1006.1 | 1003.6 | 1001.9 |
| 32.5° | 971.5 | 963.1 | 963.9 | 969.8 | 976.6 | 977.4 | 978.3 | 979.9 | 975.7 | 974.0 | 970.7 |
| 35° | 936.0 | 931.8 | 929.3 | 938.6 | 941.9 | 942.8 | 946.2 | 948.7 | 945.3 | 943.6 | 942.8 |
| 37.5° | 898.8 | 895.5 | 895.5 | 902.2 | 909.0 | 912.4 | 913.2 | 914.1 | 914.9 | 910.7 | 909.8 |
| 40° | 863.4 | 860.0 | 860.8 | 865.9 | 872.7 | 875.2 | 879.4 | 882.8 | 879.4 | 877.7 | 879.4 |
| 42.5° | 827.9 | 822.0 | 827.0 | 832.1 | 838.9 | 840.6 | 845.6 | 851.5 | 847.3 | 843.9 | 845.6 |
| 45° | 790.7 | 784.8 | 789.9 | 796.6 | 800.9 | 805.9 | 806.8 | 810.1 | 810.1 | 810.1 | 809.3 |
| 47.5° | 746.8 | 745.9 | 748.5 | 756.1 | 762.8 | 765.4 | 768.8 | 772.1 | 777.2 | 781.4 | 778.9 |
| 50° | 706.2 | 702.9 | 709.6 | 715.5 | 723.1 | 728.2 | 733.3 | 740.9 | 741.7 | 742.6 | 747.6 |
| 52.5° | 662.3 | 661.5 | 667.4 | 674.1 | 681.7 | 689.3 | 693.6 | 698.6 | 702.9 | 710.5 | 717.2 |
| 55° | 616.7 | 617.5 | 622.6 | 631.9 | 641.2 | 642.9 | 648.8 | 661.5 | 669.9 | 676.7 | 684.3 |
| 57.5° | 571.9 | 571.1 | 579.5 | 587.1 | 594.7 | 604.0 | 609.1 | 620.1 | 626.0 | 634.4 | 638.7 |
| 60° | 522.9 | 524.6 | 533.1 | 534.7 | 550.8 | 561.8 | 563.5 | 570.2 | 578.7 | 587.1 | 596.4 |
| 62.5° | 475.6 | 477.3 | 484.9 | 493.4 | 503.5 | 508.6 | 511.9 | 525.5 | 533.9 | 547.4 | 554.2 |
| 65° | 430.0 | 430.8 | 435.9 | 445.2 | 454.5 | 458.7 | 467.2 | 482.4 | 489.1 | 498.4 | 507.7 |
| 67.5° | 379.3 | 381.0 | 387.8 | 392.8 | 405.5 | 413.1 | 420.7 | 430.8 | 435.9 | 448.6 | 455.3 |
| 70° | 324.4 | 326.9 | 336.2 | 342.1 | 357.3 | 363.3 | 369.2 | 375.9 | 387.8 | 399.6 | 407.2 |
| 72.5° | 275.4 | 275.4 | 283.8 | 291.4 | 307.5 | 309.2 | 314.3 | 326.9 | 340.4 | 348.9 | 357.3 |
| 75° | 223.0 | 225.6 | 230.6 | 240.8 | 253.4 | 256.0 | 264.4 | 277.9 | 287.2 | 296.5 | 301.6 |
| 77.5° | 170.6 | 174.0 | 181.6 | 191.8 | 200.2 | 208.7 | 214.6 | 225.6 | 234.8 | 242.5 | 251.7 |
| 80° | 123.3 | 125.9 | 133.5 | 140.2 | 153.8 | 159.7 | 164.7 | 175.7 | 185.0 | 195.1 | 206.1 |
| 82.5° | 79.4 | 80.3 | 88.7 | 97.1 | 107.3 | 114.0 | 119.1 | 129.3 | 142.8 | 152.9 | 163.0 |
| 85° | 39.7 | 42.2 | 50.7 | 58.3 | 71.0 | 75.2 | 80.3 | 92.1 | 103.1 | 115.7 | 123.3 |
| 87.5° | 11.8 | 16.1 | 23.7 | 32.1 | 42.2 | 47.3 | 52.4 | 63.4 | 74.3 | 84.5 | 93.8 |
| 90° | 0.8 | 3.4 | 10.1 | 19.4 | 29.6 | 34.6 | 39.7 | 50.7 | 60.8 | 69.3 | 77.7 |
| 92.5° | 0.0 | 2.5 | 9.3 | 18.6 | 28.7 | 33.8 | 38.9 | 49.0 | 58.3 | 66.7 | 75.2 |
| 95° | 0.0 | 2.5 | 9.3 | 17.7 | 27.9 | 32.9 | 38.0 | 47.3 | 56.6 | 65.9 | 74.3 |
| 97.5° | 0.0 | 2.5 | 8.4 | 17.7 | 27.0 | 32.1 | 37.2 | 46.5 | 55.8 | 64.2 | 71.8 |
| 100° | 0.0 | 2.5 | 8.4 | 16.9 | 26.2 | 31.3 | 35.5 | 44.8 | 54.1 | 62.5 | 70.1 |
| 102.5° | 0.0 | 1.7 | 7.6 | 16.1 | 25.3 | 30.4 | 34.6 | 43.9 | 53.2 | 60.8 | 67.6 |
| 105° | 0.0 | 1.7 | 7.6 | 15.2 | 24.5 | 29.6 | 33.8 | 43.1 | 51.5 | 59.1 | 65.9 |
| 107.5° | 0.0 | 1.7 | 6.8 | 15.2 | 24.5 | 28.7 | 33.8 | 42.2 | 50.7 | 57.4 | 64.2 |
| 110° | 0.0 | 0.8 | 6.8 | 14.4 | 23.7 | 28.7 | 32.9 | 41.4 | 49.8 | 56.6 | 61.7 |



TEST NUMBER: P241388

CATALOG NUMBER: FVS8M-4-LD4-50-1STD-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-----|-----|-----|------|------|-------|------|------|------|------|------|
| 112.5° | 0.0 | 0.8 | 5.9 | 13.5 | 22.8 | 27.9 | 32.1 | 40.5 | 48.2 | 54.9 | 60.0 |
| 115° | 0.8 | 0.8 | 5.9 | 13.5 | 22.0 | 27.0 | 31.3 | 39.7 | 47.3 | 54.1 | 58.3 |
| 117.5° | 0.0 | 0.8 | 5.1 | 12.7 | 21.1 | 26.2 | 30.4 | 38.9 | 46.5 | 53.2 | 58.3 |
| 120° | 0.8 | 0.8 | 4.2 | 11.8 | 20.3 | 25.3 | 29.6 | 38.0 | 45.6 | 52.4 | 58.3 |
| 122.5° | 0.8 | 0.8 | 4.2 | 11.0 | 19.4 | 23.7 | 28.7 | 37.2 | 44.8 | 52.4 | 58.3 |
| 125° | 0.8 | 0.8 | 3.4 | 10.1 | 18.6 | 22.8 | 27.0 | 36.3 | 43.9 | 50.7 | 57.4 |
| 127.5° | 0.8 | 0.8 | 2.5 | 9.3 | 16.9 | 22.0 | 26.2 | 34.6 | 42.2 | 49.0 | 55.8 |
| 130° | 0.8 | 0.8 | 1.7 | 7.6 | 16.1 | 19.4 | 24.5 | 32.9 | 40.5 | 47.3 | 53.2 |
| 132.5° | 0.8 | 0.8 | 1.7 | 6.8 | 14.4 | 17.7 | 22.0 | 30.4 | 38.0 | 44.8 | 50.7 |
| 135° | 0.8 | 0.8 | 0.8 | 5.1 | 11.8 | 16.1 | 19.4 | 27.0 | 34.6 | 42.2 | 48.2 |
| 137.5° | 0.8 | 0.8 | 0.8 | 4.2 | 10.1 | 13.5 | 16.9 | 23.7 | 31.3 | 38.0 | 44.8 |
| 140° | 0.8 | 0.8 | 0.8 | 3.4 | 8.4 | 11.0 | 14.4 | 21.1 | 27.9 | 34.6 | 40.5 |
| 142.5° | 0.8 | 0.8 | 0.8 | 2.5 | 6.8 | 9.3 | 11.8 | 17.7 | 23.7 | 30.4 | 36.3 |
| 145° | 0.8 | 0.8 | 0.8 | 1.7 | 5.1 | 6.8 | 9.3 | 14.4 | 20.3 | 26.2 | 31.3 |
| 147.5° | 0.8 | 0.8 | 0.8 | 0.8 | 3.4 | 5.1 | 6.8 | 11.8 | 16.1 | 21.1 | 26.2 |
| 150° | 0.8 | 0.8 | 0.8 | 0.8 | 2.5 | 3.4 | 5.1 | 8.4 | 12.7 | 16.9 | 21.1 |
| 152.5° | 0.8 | 0.8 | 0.8 | 0.8 | 1.7 | 2.5 | 3.4 | 5.9 | 9.3 | 12.7 | 16.1 |
| 155° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.7 | 2.5 | 4.2 | 6.8 | 9.3 | 11.8 |
| 157.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.7 | 2.5 | 4.2 | 5.9 | 8.4 |
| 160° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.7 | 2.5 | 4.2 | 5.1 |
| 162.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.7 | 1.7 | 2.5 |
| 165° | 1.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.7 |
| 167.5° | 1.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 170° | 1.7 | 1.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 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: P241388

CATALOG NUMBER: FVS8M-4-LD4-50-1STD-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1445.4 | 1445.4 | 1445.4 | 1445.4 | 1445.4 | 1445.4 | 1445.4 | 1445.4 | 1445.4 | 1445.4 |
| 2.5° | 1426.8 | 1431.1 | 1434.4 | 1434.4 | 1434.4 | 1436.1 | 1436.1 | 1435.3 | 1436.1 | 1433.6 |
| 5° | 1382.1 | 1388.8 | 1391.4 | 1394.7 | 1393.9 | 1393.0 | 1391.4 | 1394.7 | 1393.0 | 1391.4 |
| 7.5° | 1325.5 | 1332.2 | 1328.8 | 1330.5 | 1332.2 | 1330.5 | 1331.4 | 1332.2 | 1328.8 | 1328.8 |
| 10° | 1265.5 | 1268.0 | 1265.5 | 1267.2 | 1267.2 | 1263.8 | 1265.5 | 1265.5 | 1263.8 | 1262.9 |
| 12.5° | 1217.3 | 1216.5 | 1215.6 | 1216.5 | 1217.3 | 1220.7 | 1219.0 | 1222.4 | 1221.6 | 1219.0 |
| 15° | 1174.2 | 1177.6 | 1179.3 | 1181.8 | 1178.5 | 1181.0 | 1184.4 | 1182.7 | 1182.7 | 1180.2 |
| 17.5° | 1148.1 | 1151.4 | 1148.1 | 1152.3 | 1154.0 | 1153.1 | 1152.3 | 1147.2 | 1150.6 | 1144.7 |
| 20° | 1112.6 | 1118.5 | 1122.7 | 1116.8 | 1116.8 | 1117.6 | 1116.8 | 1115.1 | 1116.8 | 1113.4 |
| 22.5° | 1090.6 | 1089.8 | 1088.9 | 1093.1 | 1094.0 | 1093.1 | 1088.1 | 1086.4 | 1081.3 | 1082.2 |
| 25° | 1059.4 | 1056.8 | 1066.1 | 1061.0 | 1056.8 | 1056.8 | 1054.3 | 1050.9 | 1048.4 | 1048.4 |
| 27.5° | 1029.8 | 1034.0 | 1029.8 | 1030.6 | 1029.8 | 1030.6 | 1019.7 | 1015.4 | 1015.4 | 1012.0 |
| 30° | 1005.3 | 1001.9 | 1002.8 | 996.8 | 993.5 | 992.6 | 990.1 | 986.7 | 984.2 | 983.3 |
| 32.5° | 969.8 | 971.5 | 969.0 | 966.4 | 965.6 | 963.1 | 961.4 | 957.1 | 953.8 | 950.4 |
| 35° | 941.1 | 938.6 | 937.7 | 939.4 | 933.5 | 929.3 | 927.6 | 925.0 | 923.3 | 920.0 |
| 37.5° | 909.8 | 906.5 | 907.3 | 901.4 | 902.2 | 901.4 | 896.3 | 892.1 | 891.2 | 889.6 |
| 40° | 874.3 | 876.0 | 872.7 | 872.7 | 865.1 | 864.2 | 863.4 | 863.4 | 860.8 | 860.8 |
| 42.5° | 843.1 | 843.1 | 841.4 | 838.9 | 836.3 | 834.6 | 829.6 | 828.7 | 825.4 | 822.0 |
| 45° | 811.0 | 809.3 | 806.8 | 805.1 | 803.4 | 800.9 | 794.1 | 791.6 | 789.9 | 788.2 |
| 47.5° | 782.3 | 778.9 | 778.9 | 773.8 | 767.9 | 767.9 | 766.2 | 762.0 | 760.3 | 760.3 |
| 50° | 751.0 | 756.1 | 758.6 | 754.4 | 752.7 | 751.0 | 749.3 | 750.2 | 748.5 | 751.0 |
| 52.5° | 724.0 | 728.2 | 727.4 | 729.0 | 730.7 | 733.3 | 729.9 | 732.4 | 730.7 | 728.2 |
| 55° | 689.3 | 692.7 | 691.0 | 689.3 | 693.6 | 693.6 | 697.8 | 696.1 | 695.3 | 695.3 |
| 57.5° | 646.3 | 650.5 | 650.5 | 652.2 | 653.0 | 650.5 | 656.4 | 653.9 | 654.7 | 652.2 |
| 60° | 601.5 | 600.6 | 603.2 | 608.2 | 609.1 | 605.7 | 604.9 | 608.2 | 605.7 | 605.7 |
| 62.5° | 557.6 | 559.2 | 560.1 | 557.6 | 555.9 | 557.6 | 554.2 | 557.6 | 557.6 | 556.7 |
| 65° | 510.2 | 511.9 | 512.8 | 509.4 | 505.2 | 506.0 | 502.6 | 504.3 | 505.2 | 504.3 |
| 67.5° | 458.7 | 462.9 | 461.3 | 460.4 | 457.9 | 452.8 | 452.0 | 450.3 | 452.0 | 452.0 |
| 70° | 409.7 | 413.9 | 409.7 | 410.6 | 410.6 | 406.3 | 403.8 | 400.4 | 400.4 | 399.6 |
| 72.5° | 361.6 | 364.1 | 363.3 | 363.3 | 364.1 | 361.6 | 357.3 | 355.7 | 354.0 | 354.0 |
| 75° | 310.9 | 315.9 | 315.9 | 316.8 | 317.6 | 315.9 | 315.9 | 313.4 | 310.9 | 311.7 |
| 77.5° | 261.9 | 267.0 | 271.2 | 273.7 | 273.7 | 274.6 | 276.2 | 275.4 | 273.7 | 273.7 |
| 80° | 216.3 | 223.9 | 228.1 | 233.2 | 234.0 | 234.0 | 237.4 | 238.2 | 238.2 | 237.4 |
| 82.5° | 173.2 | 180.8 | 185.9 | 190.9 | 191.8 | 193.5 | 199.4 | 201.9 | 207.0 | 207.0 |
| 85° | 131.8 | 140.2 | 146.1 | 152.9 | 157.1 | 159.7 | 164.7 | 171.5 | 178.2 | 183.3 |
| 87.5° | 101.4 | 109.8 | 118.3 | 125.0 | 128.4 | 130.9 | 137.7 | 146.1 | 154.6 | 161.4 |
| 90° | 87.0 | 94.6 | 102.2 | 108.1 | 112.4 | 114.9 | 121.6 | 129.3 | 139.4 | 146.1 |
| 92.5° | 83.6 | 91.2 | 97.1 | 103.9 | 107.3 | 109.8 | 118.3 | 128.4 | 140.2 | 146.1 |
| 95° | 81.1 | 87.9 | 94.6 | 102.2 | 105.6 | 109.8 | 120.8 | 135.2 | 151.2 | 157.1 |
| 97.5° | 79.4 | 86.2 | 92.9 | 100.5 | 104.8 | 109.0 | 121.6 | 132.6 | 139.4 | 139.4 |
| 100° | 76.9 | 83.6 | 90.4 | 97.1 | 100.5 | 104.8 | 112.4 | 115.7 | 115.7 | 115.7 |
| 102.5° | 74.3 | 80.3 | 86.2 | 90.4 | 92.9 | 94.6 | 98.0 | 98.8 | 97.1 | 95.5 |
| 105° | 71.8 | 76.0 | 79.4 | 81.9 | 82.8 | 83.6 | 84.5 | 84.5 | 82.8 | 81.1 |
| 107.5° | 69.3 | 71.8 | 74.3 | 74.3 | 75.2 | 75.2 | 76.0 | 75.2 | 73.5 | 71.8 |
| 110° | 65.9 | 68.4 | 69.3 | 70.1 | 70.1 | 70.1 | 71.0 | 71.0 | 69.3 | 68.4 |



TEST NUMBER: P241388

CATALOG NUMBER: FVS8M-4-LD4-50-1STD-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|------|------|------|------|-------|------|------|------|------|------|
| 112.5° | 63.4 | 65.9 | 66.7 | 67.6 | 68.4 | 68.4 | 70.1 | 70.1 | 69.3 | 69.3 |
| 115° | 62.5 | 65.0 | 66.7 | 68.4 | 69.3 | 70.1 | 71.8 | 73.5 | 72.7 | 71.8 |
| 117.5° | 62.5 | 65.9 | 68.4 | 70.1 | 71.0 | 72.7 | 75.2 | 76.0 | 76.0 | 76.0 |
| 120° | 62.5 | 66.7 | 70.1 | 72.7 | 73.5 | 75.2 | 76.9 | 78.6 | 79.4 | 78.6 |
| 122.5° | 62.5 | 66.7 | 71.0 | 73.5 | 74.3 | 76.0 | 78.6 | 80.3 | 81.1 | 81.1 |
| 125° | 62.5 | 66.7 | 71.0 | 73.5 | 75.2 | 76.0 | 78.6 | 81.1 | 81.9 | 82.8 |
| 127.5° | 60.8 | 65.9 | 69.3 | 72.7 | 74.3 | 76.0 | 78.6 | 81.1 | 82.8 | 83.6 |
| 130° | 59.1 | 63.4 | 67.6 | 71.0 | 72.7 | 74.3 | 77.7 | 80.3 | 81.9 | 82.8 |
| 132.5° | 56.6 | 60.8 | 65.0 | 68.4 | 70.1 | 71.8 | 75.2 | 78.6 | 80.3 | 81.1 |
| 135° | 53.2 | 58.3 | 62.5 | 65.9 | 67.6 | 69.3 | 72.7 | 76.0 | 77.7 | 78.6 |
| 137.5° | 49.8 | 54.9 | 59.1 | 62.5 | 64.2 | 65.9 | 69.3 | 71.8 | 74.3 | 74.3 |
| 140° | 46.5 | 51.5 | 55.8 | 59.1 | 60.8 | 62.5 | 65.0 | 67.6 | 69.3 | 70.1 |
| 142.5° | 42.2 | 47.3 | 50.7 | 54.9 | 56.6 | 57.4 | 60.0 | 62.5 | 64.2 | 64.2 |
| 145° | 37.2 | 42.2 | 46.5 | 49.0 | 50.7 | 52.4 | 54.1 | 55.8 | 57.4 | 57.4 |
| 147.5° | 31.3 | 36.3 | 40.5 | 43.1 | 44.8 | 45.6 | 47.3 | 49.0 | 49.8 | 49.8 |
| 150° | 25.3 | 29.6 | 33.8 | 36.3 | 38.0 | 38.9 | 40.5 | 41.4 | 42.2 | 42.2 |
| 152.5° | 19.4 | 23.7 | 27.0 | 29.6 | 31.3 | 32.1 | 33.8 | 33.8 | 34.6 | 35.5 |
| 155° | 14.4 | 17.7 | 20.3 | 23.7 | 24.5 | 25.3 | 26.2 | 27.9 | 27.9 | 27.9 |
| 157.5° | 10.1 | 12.7 | 14.4 | 16.9 | 17.7 | 19.4 | 20.3 | 21.1 | 21.1 | 21.1 |
| 160° | 6.8 | 8.4 | 10.1 | 11.8 | 12.7 | 13.5 | 14.4 | 15.2 | 15.2 | 16.1 |
| 162.5° | 4.2 | 5.1 | 5.9 | 6.8 | 7.6 | 8.4 | 9.3 | 10.1 | 10.1 | 10.1 |
| 165° | 1.7 | 2.5 | 3.4 | 3.4 | 4.2 | 4.2 | 5.1 | 5.9 | 5.9 | 5.9 |
| 167.5° | 0.8 | 0.8 | 0.8 | 1.7 | 1.7 | 1.7 | 1.7 | 2.5 | 2.5 | 2.5 |
| 170° | 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 |
| 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)