

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: P241440

Luminaire Tested: **FVS8M-2-LD4-50-2HI-PA187-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P241440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-410-10)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FVS8M-2-LD4-50-2HI-PA187-UNV-EDC1  
Description: FAILSAFE FVS8M LED FIXTURE  
2FT LENGTH, 2-MODULE LED WITH PA187 LENS  
Light Source: (84) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

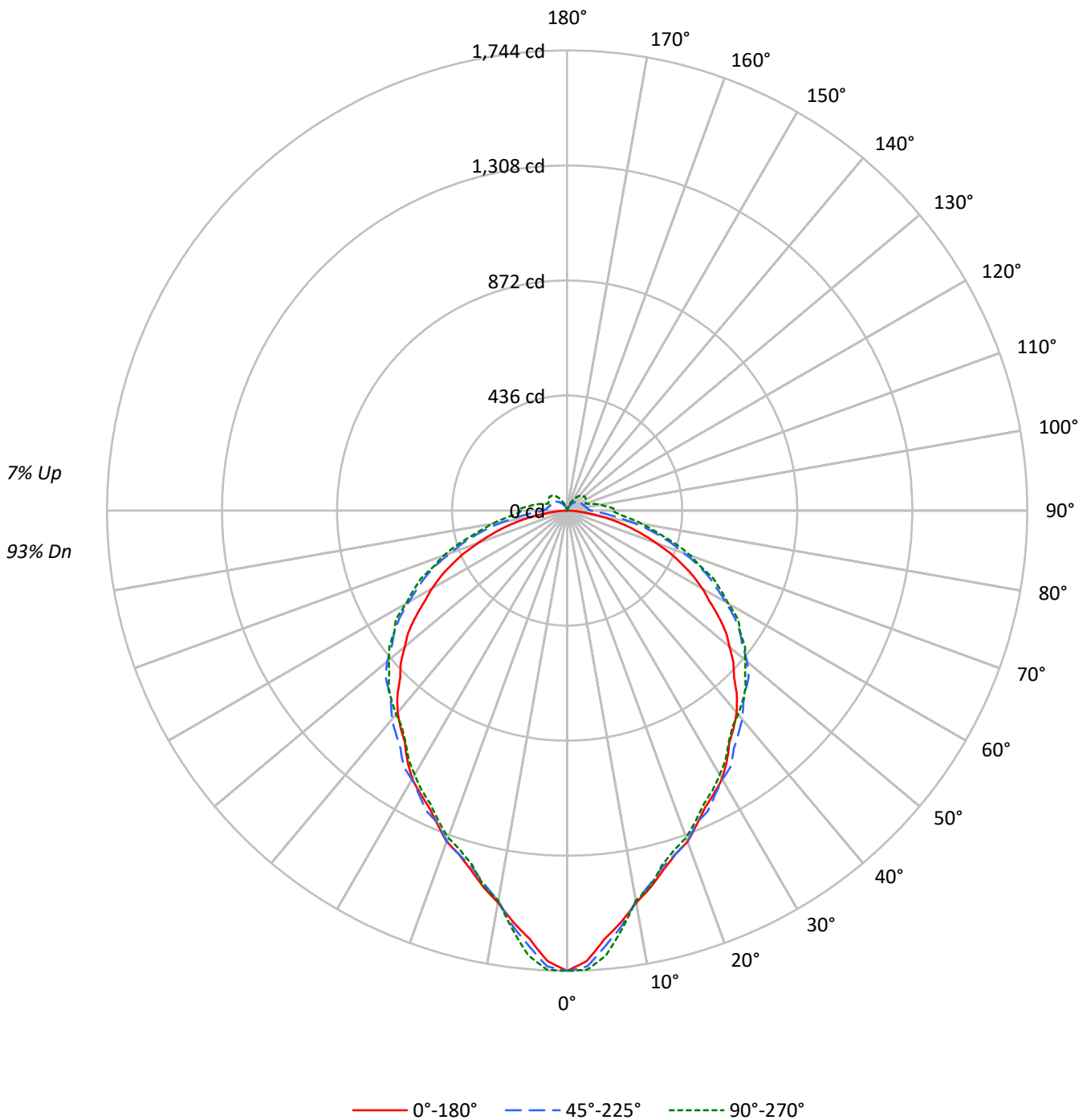
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4614.0 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1 / 0.99 / 1.23  
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 1.85' x H: 0.15')  
CIE Type: Direct  
  
Input Watts (W): 44.2  
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: P241440

CATALOG NUMBER: FVS8M-2-LD4-50-2HI-PA187-UNV-EDC1

### Luminous Intensity Polar Plot





TEST NUMBER: P241440

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |    |    | 20 |    |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |    |    | 10 | 0  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |
| 0   | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 96 | 96 | 96 | 93 |
| 1   | 106 | 101 | 97  | 92  | 103 | 98  | 94  | 90  | 93  | 89  | 86  | 88  | 85  | 82  | 83 | 81 | 79 | 76 |
| 2   | 96  | 88  | 81  | 75  | 93  | 85  | 79  | 73  | 81  | 75  | 70  | 76  | 72  | 68  | 72 | 69 | 65 | 63 |
| 3   | 88  | 77  | 68  | 62  | 84  | 75  | 67  | 61  | 71  | 64  | 59  | 67  | 61  | 57  | 64 | 59 | 55 | 52 |
| 4   | 80  | 68  | 59  | 52  | 77  | 66  | 58  | 51  | 63  | 55  | 50  | 59  | 53  | 48  | 57 | 51 | 47 | 45 |
| 5   | 74  | 60  | 51  | 45  | 71  | 59  | 50  | 44  | 56  | 49  | 43  | 53  | 47  | 42  | 51 | 45 | 41 | 38 |
| 6   | 68  | 54  | 45  | 39  | 65  | 53  | 45  | 38  | 51  | 43  | 37  | 48  | 42  | 37  | 46 | 40 | 36 | 34 |
| 7   | 63  | 49  | 40  | 34  | 61  | 48  | 40  | 34  | 46  | 39  | 33  | 44  | 37  | 32  | 42 | 36 | 32 | 30 |
| 8   | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 30  | 42  | 35  | 30  | 40  | 34  | 29  | 39 | 33 | 28 | 26 |
| 9   | 55  | 41  | 33  | 27  | 53  | 40  | 33  | 27  | 39  | 32  | 27  | 37  | 31  | 26  | 36 | 30 | 26 | 24 |
| 10  | 51  | 38  | 30  | 25  | 50  | 37  | 30  | 25  | 36  | 29  | 24  | 34  | 28  | 24  | 33 | 27 | 23 | 22 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 15676 | 15676 | 15676 |
| 5°  | 14604 | 14671 | 14971 |
| 10° | 13585 | 13205 | 13173 |
| 15° | 12842 | 12297 | 12201 |
| 20° | 12418 | 11826 | 11656 |
| 25° | 11859 | 11341 | 11002 |
| 30° | 11657 | 10859 | 10618 |
| 35° | 11151 | 10502 | 10119 |
| 40° | 11001 | 10264 | 9952  |
| 45° | 10541 | 10019 | 9911  |
| 50° | 10264 | 9907  | 9705  |
| 55° | 9861  | 9585  | 9476  |
| 60° | 9362  | 9069  | 9112  |
| 65° | 8745  | 8610  | 8763  |
| 70° | 7754  | 7763  | 8079  |
| 75° | 6589  | 6910  | 7134  |
| 80° | 4840  | 5696  | 6514  |
| 85° | 2428  | 4369  | 5962  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 153.4  | 3.3       |
| 10°-20°   | 396.7  | 8.6       |
| 20°-30°   | 575.6  | 12.5      |
| 30°-40°   | 685.2  | 14.8      |
| 40°-50°   | 730.5  | 15.8      |
| 50°-60°   | 691.8  | 15.0      |
| 60°-70°   | 557.4  | 12.1      |
| 70°-80°   | 358.1  | 7.8       |
| 80°-90°   | 156.4  | 3.4       |
| 90°-100°  | 83.1   | 1.8       |
| 100°-110° | 64.2   | 1.4       |
| 110°-120° | 51.3   | 1.1       |
| 120°-130° | 45.7   | 1.0       |
| 130°-140° | 34.4   | 0.7       |
| 140°-150° | 20.1   | 0.4       |
| 150°-160° | 8.3    | 0.2       |
| 160°-170° | 1.9    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1125.6 | 24.4      |
| 0°-40°    | 1810.8 | 39.2      |
| 0°-60°    | 3233.1 | 70.1      |
| 0°-90°    | 4305.0 | 93.3      |
| 90°-120°  | 198.5  | 4.3       |
| 90°-150°  | 298.7  | 6.5       |
| 90°-180°  | 309.0  | 6.7       |
| 0°-180°   | 4614.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1744 | 1744  | 1744 | 1744  | 1744 |      |
| 5°   | 1630 | 1637  | 1657 | 1682  | 1692 | 152  |
| 15°  | 1409 | 1415  | 1398 | 1387  | 1390 | 398  |
| 25°  | 1240 | 1246  | 1258 | 1248  | 1226 | 575  |
| 35°  | 1072 | 1111  | 1101 | 1096  | 1068 | 677  |
| 45°  | 894  | 937   | 958  | 976   | 956  | 695  |
| 55°  | 700  | 738   | 800  | 808   | 800  | 625  |
| 65°  | 480  | 521   | 592  | 601   | 612  | 475  |
| 75°  | 245  | 293   | 359  | 392   | 378  | 259  |
| 85°  | 45   | 86    | 147  | 185   | 207  | 56   |
| 90°  | 1    | 38    | 90   | 126   | 172  | 2    |
| 95°  | 0    | 34    | 78   | 115   | 158  | 0    |
| 105° | 0    | 30    | 69   | 94    | 96   | 0    |
| 115° | 0    | 28    | 61   | 76    | 78   | 0    |
| 125° | 0    | 25    | 57   | 81    | 84   | 0    |
| 135° | 0    | 19    | 47   | 72    | 80   | 0    |
| 145° | 1    | 11    | 33   | 52    | 61   | 1    |
| 155° | 1    | 5     | 19   | 29    | 33   | 0    |
| 165° | 1    | 1     | 5    | 11    | 12   | 0    |
| 175° | 0    | 0     | 0    | 0     | 0    | 0    |
| 180° | 0    | 0     | 0    | 0     | 0    | 0    |



TEST NUMBER: P241440

CATALOG NUMBER: FVS8M-2-LD4-50-2HI-PA187-UNV-EDC1

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 |
| 2.5°   | 1708.6 | 1708.6 | 1709.7 | 1709.7 | 1711.8 | 1712.8 | 1715.9 | 1715.9 | 1721.1 | 1725.3 | 1729.4 |
| 5°     | 1629.6 | 1626.5 | 1629.6 | 1629.6 | 1634.8 | 1636.9 | 1642.1 | 1648.3 | 1649.4 | 1655.6 | 1656.6 |
| 7.5°   | 1572.4 | 1571.4 | 1567.2 | 1567.2 | 1565.1 | 1568.3 | 1568.3 | 1572.4 | 1579.7 | 1585.9 | 1587.0 |
| 10°    | 1509.0 | 1507.9 | 1506.9 | 1507.9 | 1502.7 | 1504.8 | 1504.8 | 1506.9 | 1511.1 | 1510.0 | 1501.7 |
| 12.5°  | 1462.2 | 1461.1 | 1457.0 | 1457.0 | 1458.0 | 1458.0 | 1457.0 | 1459.1 | 1451.8 | 1447.6 | 1450.7 |
| 15°    | 1409.1 | 1412.3 | 1415.4 | 1410.2 | 1416.4 | 1415.4 | 1415.4 | 1411.2 | 1401.9 | 1395.6 | 1397.7 |
| 17.5°  | 1365.5 | 1369.6 | 1366.5 | 1364.4 | 1362.3 | 1362.3 | 1365.5 | 1365.5 | 1368.6 | 1362.3 | 1365.5 |
| 20°    | 1335.3 | 1329.1 | 1321.8 | 1328.0 | 1332.2 | 1333.2 | 1334.3 | 1334.3 | 1330.1 | 1329.1 | 1333.2 |
| 22.5°  | 1285.4 | 1284.3 | 1287.5 | 1294.7 | 1293.7 | 1288.5 | 1286.4 | 1278.1 | 1282.3 | 1286.4 | 1281.2 |
| 25°    | 1239.6 | 1252.1 | 1255.2 | 1246.9 | 1243.8 | 1245.9 | 1252.1 | 1256.3 | 1263.5 | 1259.4 | 1258.3 |
| 27.5°  | 1207.4 | 1210.5 | 1195.9 | 1205.3 | 1219.9 | 1227.1 | 1223.0 | 1221.9 | 1218.8 | 1208.4 | 1214.7 |
| 30°    | 1174.1 | 1163.7 | 1165.8 | 1177.2 | 1178.3 | 1173.1 | 1167.9 | 1171.0 | 1177.2 | 1178.3 | 1176.2 |
| 32.5°  | 1126.3 | 1121.1 | 1140.8 | 1131.5 | 1131.5 | 1135.6 | 1144.0 | 1149.1 | 1155.4 | 1154.3 | 1152.3 |
| 35°    | 1072.2 | 1085.7 | 1085.7 | 1081.6 | 1101.3 | 1110.7 | 1114.8 | 1105.5 | 1104.4 | 1097.2 | 1101.3 |
| 37.5°  | 1036.8 | 1037.9 | 1033.7 | 1055.6 | 1062.8 | 1059.7 | 1056.6 | 1055.6 | 1060.8 | 1064.9 | 1066.0 |
| 40°    | 999.4  | 990.0  | 997.3  | 1009.8 | 1003.6 | 1008.8 | 1017.1 | 1029.6 | 1034.8 | 1036.8 | 1032.7 |
| 42.5°  | 952.6  | 949.5  | 960.9  | 955.7  | 968.2  | 975.5  | 983.8  | 991.1  | 986.9  | 989.0  | 988.0  |
| 45°    | 894.4  | 907.9  | 901.6  | 916.2  | 937.0  | 937.0  | 938.0  | 936.0  | 945.3  | 956.8  | 957.8  |
| 47.5°  | 854.8  | 856.9  | 855.9  | 873.6  | 881.9  | 879.8  | 893.3  | 906.8  | 919.3  | 925.6  | 932.8  |
| 50°    | 802.8  | 797.6  | 818.4  | 819.5  | 832.0  | 840.3  | 851.7  | 864.2  | 875.6  | 884.0  | 890.2  |
| 52.5°  | 759.2  | 754.0  | 764.4  | 764.4  | 791.4  | 800.8  | 801.8  | 811.2  | 823.6  | 827.8  | 836.1  |
| 55°    | 699.9  | 707.2  | 705.1  | 724.8  | 737.3  | 738.4  | 742.5  | 759.2  | 778.9  | 787.2  | 799.7  |
| 57.5°  | 639.6  | 650.0  | 648.9  | 671.8  | 677.0  | 685.3  | 694.7  | 717.6  | 730.0  | 741.5  | 750.8  |
| 60°    | 591.7  | 593.8  | 604.2  | 608.4  | 620.9  | 633.3  | 647.9  | 662.5  | 670.8  | 684.3  | 692.6  |
| 62.5°  | 539.7  | 533.5  | 551.2  | 552.2  | 575.1  | 577.2  | 585.5  | 601.1  | 614.6  | 631.3  | 640.6  |
| 65°    | 480.5  | 481.5  | 489.8  | 501.3  | 516.9  | 521.0  | 529.3  | 547.0  | 564.7  | 580.3  | 591.7  |
| 67.5°  | 423.3  | 427.4  | 432.6  | 446.1  | 455.5  | 465.9  | 476.3  | 490.9  | 514.8  | 527.3  | 534.5  |
| 70°    | 358.8  | 366.1  | 372.3  | 386.9  | 400.4  | 408.7  | 422.2  | 436.8  | 452.4  | 462.8  | 470.1  |
| 72.5°  | 300.5  | 305.7  | 315.1  | 326.5  | 347.3  | 355.7  | 364.0  | 376.5  | 390.0  | 400.4  | 416.0  |
| 75°    | 245.4  | 249.6  | 261.0  | 269.3  | 287.0  | 293.3  | 303.7  | 316.1  | 333.8  | 347.3  | 358.8  |
| 77.5°  | 189.3  | 192.4  | 203.8  | 214.2  | 229.8  | 237.1  | 244.4  | 258.9  | 273.5  | 292.2  | 303.7  |
| 80°    | 135.2  | 138.3  | 149.8  | 159.1  | 171.6  | 177.8  | 186.2  | 203.8  | 220.5  | 230.9  | 244.4  |
| 82.5°  | 87.4   | 89.4   | 97.8   | 109.2  | 120.6  | 129.0  | 137.3  | 151.8  | 166.4  | 178.9  | 190.3  |
| 85°    | 44.7   | 46.8   | 56.2   | 65.5   | 78.0   | 86.3   | 91.5   | 106.1  | 120.6  | 133.1  | 146.6  |
| 87.5°  | 14.6   | 17.7   | 25.0   | 35.4   | 46.8   | 54.1   | 59.3   | 72.8   | 85.3   | 98.8   | 111.3  |
| 90°    | 1.0    | 4.2    | 11.4   | 20.8   | 32.2   | 38.5   | 44.7   | 56.2   | 67.6   | 79.0   | 90.5   |
| 92.5°  | 0.0    | 3.1    | 9.4    | 18.7   | 29.1   | 35.4   | 40.6   | 52.0   | 62.4   | 72.8   | 82.2   |
| 95°    | 0.0    | 2.1    | 9.4    | 17.7   | 28.1   | 34.3   | 39.5   | 49.9   | 60.3   | 69.7   | 78.0   |
| 97.5°  | 0.0    | 2.1    | 8.3    | 17.7   | 27.0   | 33.3   | 38.5   | 47.8   | 57.2   | 66.6   | 75.9   |
| 100°   | 0.0    | 2.1    | 8.3    | 16.6   | 27.0   | 32.2   | 36.4   | 45.8   | 55.1   | 64.5   | 72.8   |
| 102.5° | 0.0    | 2.1    | 8.3    | 16.6   | 26.0   | 31.2   | 35.4   | 44.7   | 54.1   | 62.4   | 70.7   |
| 105°   | 0.0    | 2.1    | 8.3    | 16.6   | 26.0   | 30.2   | 35.4   | 43.7   | 53.0   | 61.4   | 68.6   |
| 107.5° | 0.0    | 2.1    | 7.3    | 15.6   | 25.0   | 30.2   | 34.3   | 43.7   | 52.0   | 59.3   | 66.6   |
| 110°   | 0.0    | 2.1    | 7.3    | 15.6   | 25.0   | 29.1   | 34.3   | 42.6   | 51.0   | 58.2   | 64.5   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15°  | 20°  | 22.5° | 25°  | 30°  | 35°  | 40°  | 45°  |
|--------|-----|-----|-----|------|------|-------|------|------|------|------|------|
| 112.5° | 0.0 | 2.1 | 7.3 | 15.6 | 23.9 | 29.1  | 33.3 | 41.6 | 49.9 | 56.2 | 62.4 |
| 115°   | 0.0 | 2.1 | 7.3 | 14.6 | 23.9 | 28.1  | 32.2 | 40.6 | 48.9 | 55.1 | 61.4 |
| 117.5° | 0.0 | 1.0 | 7.3 | 14.6 | 22.9 | 27.0  | 32.2 | 40.6 | 47.8 | 54.1 | 60.3 |
| 120°   | 0.0 | 1.0 | 6.2 | 13.5 | 21.8 | 27.0  | 31.2 | 39.5 | 46.8 | 53.0 | 59.3 |
| 122.5° | 0.0 | 1.0 | 6.2 | 13.5 | 21.8 | 26.0  | 30.2 | 38.5 | 45.8 | 53.0 | 59.3 |
| 125°   | 0.0 | 1.0 | 6.2 | 12.5 | 20.8 | 25.0  | 29.1 | 36.4 | 44.7 | 51.0 | 57.2 |
| 127.5° | 0.0 | 1.0 | 5.2 | 12.5 | 19.8 | 23.9  | 28.1 | 35.4 | 42.6 | 48.9 | 55.1 |
| 130°   | 0.0 | 1.0 | 5.2 | 11.4 | 18.7 | 21.8  | 26.0 | 33.3 | 40.6 | 46.8 | 53.0 |
| 132.5° | 0.0 | 1.0 | 4.2 | 10.4 | 17.7 | 20.8  | 23.9 | 31.2 | 38.5 | 44.7 | 49.9 |
| 135°   | 0.0 | 1.0 | 4.2 | 9.4  | 15.6 | 18.7  | 22.9 | 29.1 | 35.4 | 41.6 | 46.8 |
| 137.5° | 0.0 | 0.0 | 3.1 | 8.3  | 14.6 | 17.7  | 20.8 | 27.0 | 33.3 | 38.5 | 43.7 |
| 140°   | 1.0 | 0.0 | 3.1 | 7.3  | 12.5 | 15.6  | 18.7 | 23.9 | 30.2 | 35.4 | 40.6 |
| 142.5° | 1.0 | 0.0 | 2.1 | 6.2  | 11.4 | 13.5  | 16.6 | 21.8 | 27.0 | 32.2 | 36.4 |
| 145°   | 1.0 | 0.0 | 2.1 | 5.2  | 9.4  | 11.4  | 14.6 | 18.7 | 23.9 | 28.1 | 33.3 |
| 147.5° | 1.0 | 0.0 | 1.0 | 4.2  | 8.3  | 10.4  | 12.5 | 16.6 | 20.8 | 25.0 | 29.1 |
| 150°   | 1.0 | 1.0 | 1.0 | 3.1  | 6.2  | 8.3   | 10.4 | 14.6 | 17.7 | 21.8 | 26.0 |
| 152.5° | 1.0 | 1.0 | 1.0 | 2.1  | 5.2  | 6.2   | 8.3  | 11.4 | 15.6 | 18.7 | 22.9 |
| 155°   | 1.0 | 1.0 | 1.0 | 2.1  | 4.2  | 5.2   | 6.2  | 9.4  | 12.5 | 15.6 | 18.7 |
| 157.5° | 1.0 | 1.0 | 0.0 | 1.0  | 3.1  | 4.2   | 5.2  | 7.3  | 9.4  | 12.5 | 14.6 |
| 160°   | 1.0 | 1.0 | 0.0 | 1.0  | 2.1  | 3.1   | 3.1  | 5.2  | 7.3  | 9.4  | 11.4 |
| 162.5° | 1.0 | 1.0 | 1.0 | 1.0  | 1.0  | 2.1   | 2.1  | 4.2  | 5.2  | 7.3  | 8.3  |
| 165°   | 1.0 | 1.0 | 1.0 | 0.0  | 1.0  | 1.0   | 1.0  | 2.1  | 3.1  | 4.2  | 5.2  |
| 167.5° | 1.0 | 1.0 | 1.0 | 0.0  | 0.0  | 0.0   | 1.0  | 1.0  | 2.1  | 2.1  | 3.1  |
| 170°   | 1.0 | 1.0 | 1.0 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 1.0  | 1.0  | 1.0  |
| 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  |



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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 | 1744.0 |
| 2.5°   | 1733.6 | 1736.7 | 1738.8 | 1741.9 | 1740.9 | 1741.9 | 1741.9 | 1739.8 | 1741.9 | 1741.9 |
| 5°     | 1661.8 | 1669.1 | 1673.3 | 1679.5 | 1681.6 | 1681.6 | 1686.8 | 1691.0 | 1693.0 | 1692.0 |
| 7.5°   | 1585.9 | 1579.7 | 1580.7 | 1576.6 | 1576.6 | 1578.7 | 1583.9 | 1588.0 | 1594.3 | 1598.4 |
| 10°    | 1499.6 | 1501.7 | 1501.7 | 1505.9 | 1503.8 | 1503.8 | 1504.8 | 1507.9 | 1506.9 | 1500.7 |
| 12.5°  | 1451.8 | 1440.3 | 1442.4 | 1451.8 | 1454.9 | 1451.8 | 1454.9 | 1450.7 | 1458.0 | 1458.0 |
| 15°    | 1398.7 | 1406.0 | 1410.2 | 1397.7 | 1387.3 | 1391.5 | 1396.7 | 1392.5 | 1390.4 | 1390.4 |
| 17.5°  | 1375.9 | 1361.3 | 1353.0 | 1356.1 | 1358.2 | 1356.1 | 1357.1 | 1357.1 | 1354.0 | 1348.8 |
| 20°    | 1318.7 | 1320.7 | 1325.9 | 1328.0 | 1327.0 | 1325.9 | 1320.7 | 1319.7 | 1320.7 | 1318.7 |
| 22.5°  | 1284.3 | 1284.3 | 1285.4 | 1296.8 | 1296.8 | 1293.7 | 1287.5 | 1281.2 | 1273.9 | 1272.9 |
| 25°    | 1265.6 | 1256.3 | 1263.5 | 1253.1 | 1247.9 | 1239.6 | 1236.5 | 1232.3 | 1218.8 | 1226.1 |
| 27.5°  | 1209.5 | 1225.1 | 1215.7 | 1210.5 | 1204.3 | 1200.1 | 1192.8 | 1191.8 | 1193.9 | 1193.9 |
| 30°    | 1178.3 | 1168.9 | 1165.8 | 1166.8 | 1168.9 | 1177.2 | 1168.9 | 1156.4 | 1156.4 | 1156.4 |
| 32.5°  | 1154.3 | 1144.0 | 1137.7 | 1133.6 | 1134.6 | 1131.5 | 1126.3 | 1115.9 | 1114.8 | 1118.0 |
| 35°    | 1096.1 | 1103.4 | 1104.4 | 1102.4 | 1096.1 | 1088.8 | 1087.8 | 1085.7 | 1073.2 | 1068.0 |
| 37.5°  | 1060.8 | 1056.6 | 1055.6 | 1059.7 | 1061.8 | 1055.6 | 1040.0 | 1032.7 | 1033.7 | 1029.6 |
| 40°    | 1035.8 | 1035.8 | 1026.4 | 1012.9 | 1006.7 | 1007.7 | 1015.0 | 1008.8 | 1006.7 | 1008.8 |
| 42.5°  | 995.2  | 1004.6 | 1002.5 | 994.2  | 993.2  | 995.2  | 993.2  | 986.9  | 982.8  | 982.8  |
| 45°    | 964.0  | 962.0  | 964.0  | 975.5  | 975.5  | 969.2  | 957.8  | 962.0  | 962.0  | 955.7  |
| 47.5°  | 941.2  | 933.9  | 938.0  | 926.6  | 930.8  | 933.9  | 927.6  | 921.4  | 919.3  | 915.2  |
| 50°    | 895.4  | 901.6  | 902.7  | 896.4  | 890.2  | 891.2  | 884.0  | 877.7  | 884.0  | 880.8  |
| 52.5°  | 841.3  | 850.7  | 852.8  | 855.9  | 845.5  | 841.3  | 844.4  | 852.8  | 848.6  | 849.6  |
| 55°    | 808.0  | 808.0  | 807.0  | 802.8  | 808.0  | 814.3  | 802.8  | 801.8  | 796.6  | 799.7  |
| 57.5°  | 764.4  | 766.4  | 761.2  | 766.4  | 762.3  | 762.3  | 758.1  | 761.2  | 763.3  | 769.6  |
| 60°    | 702.0  | 710.3  | 717.6  | 715.5  | 707.2  | 708.2  | 713.4  | 709.2  | 710.3  | 705.1  |
| 62.5°  | 648.9  | 648.9  | 660.4  | 655.2  | 661.4  | 658.3  | 651.0  | 652.1  | 656.2  | 658.3  |
| 65°    | 598.0  | 600.1  | 594.9  | 602.1  | 601.1  | 596.9  | 599.0  | 608.4  | 607.3  | 611.5  |
| 67.5°  | 537.7  | 548.1  | 546.0  | 542.9  | 542.9  | 544.9  | 553.3  | 546.0  | 542.9  | 541.8  |
| 70°    | 479.4  | 484.6  | 494.0  | 489.8  | 495.0  | 496.1  | 489.8  | 487.7  | 489.8  | 498.1  |
| 72.5°  | 425.3  | 430.5  | 435.7  | 444.1  | 445.1  | 440.9  | 445.1  | 442.0  | 443.0  | 439.9  |
| 75°    | 368.1  | 375.4  | 380.6  | 393.1  | 392.1  | 387.9  | 388.9  | 383.7  | 379.6  | 378.5  |
| 77.5°  | 310.9  | 321.3  | 332.8  | 331.7  | 331.7  | 335.9  | 332.8  | 329.7  | 330.7  | 327.6  |
| 80°    | 256.9  | 268.3  | 277.7  | 278.7  | 280.8  | 287.0  | 282.9  | 284.9  | 283.9  | 287.0  |
| 82.5°  | 203.8  | 215.3  | 223.6  | 228.8  | 231.9  | 232.9  | 236.1  | 239.2  | 243.3  | 245.4  |
| 85°    | 159.1  | 169.5  | 175.8  | 182.0  | 185.1  | 187.2  | 193.4  | 198.6  | 203.8  | 207.0  |
| 87.5°  | 121.7  | 129.0  | 137.3  | 145.6  | 148.7  | 152.9  | 159.1  | 166.4  | 175.8  | 184.1  |
| 90°    | 97.8   | 106.1  | 114.4  | 122.7  | 125.8  | 130.0  | 137.3  | 146.6  | 160.2  | 171.6  |
| 92.5°  | 89.4   | 97.8   | 105.0  | 113.4  | 117.5  | 122.7  | 132.1  | 144.6  | 163.3  | 176.8  |
| 95°    | 86.3   | 94.6   | 103.0  | 111.3  | 115.4  | 119.6  | 131.0  | 143.5  | 155.0  | 158.1  |
| 97.5°  | 83.2   | 91.5   | 98.8   | 107.1  | 111.3  | 116.5  | 125.8  | 132.1  | 136.2  | 139.4  |
| 100°   | 81.1   | 88.4   | 95.7   | 104.0  | 107.1  | 110.2  | 116.5  | 121.7  | 125.8  | 129.0  |
| 102.5° | 78.0   | 85.3   | 92.6   | 97.8   | 100.9  | 103.0  | 108.2  | 113.4  | 113.4  | 113.4  |
| 105°   | 75.9   | 82.2   | 87.4   | 91.5   | 93.6   | 95.7   | 98.8   | 97.8   | 96.7   | 95.7   |
| 107.5° | 72.8   | 78.0   | 82.2   | 86.3   | 86.3   | 87.4   | 87.4   | 85.3   | 84.2   | 83.2   |
| 110°   | 69.7   | 74.9   | 78.0   | 79.0   | 80.1   | 80.1   | 80.1   | 79.0   | 78.0   | 78.0   |





TEST NUMBER: P241440

CATALOG NUMBER: FVS8M-2-LD4-50-2HI-PA187-UNV-EDC1

**CANDELA DISTRIBUTION (continued):**

|        | 50°  | 55°  | 60°  | 65°  | 67.5° | 70°  | 75°  | 80°  | 85°  | 90°  |
|--------|------|------|------|------|-------|------|------|------|------|------|
| 112.5° | 67.6 | 71.8 | 74.9 | 75.9 | 77.0  | 77.0 | 77.0 | 77.0 | 75.9 | 75.9 |
| 115°   | 65.5 | 69.7 | 72.8 | 74.9 | 75.9  | 77.0 | 78.0 | 78.0 | 78.0 | 78.0 |
| 117.5° | 65.5 | 69.7 | 73.8 | 75.9 | 78.0  | 79.0 | 81.1 | 81.1 | 80.1 | 81.1 |
| 120°   | 64.5 | 69.7 | 73.8 | 78.0 | 80.1  | 81.1 | 83.2 | 83.2 | 82.2 | 82.2 |
| 122.5° | 64.5 | 69.7 | 74.9 | 79.0 | 81.1  | 82.2 | 84.2 | 85.3 | 84.2 | 83.2 |
| 125°   | 63.4 | 68.6 | 73.8 | 79.0 | 81.1  | 83.2 | 85.3 | 85.3 | 84.2 | 84.2 |
| 127.5° | 61.4 | 67.6 | 72.8 | 78.0 | 80.1  | 82.2 | 84.2 | 85.3 | 84.2 | 84.2 |
| 130°   | 59.3 | 65.5 | 70.7 | 75.9 | 78.0  | 80.1 | 82.2 | 83.2 | 83.2 | 83.2 |
| 132.5° | 56.2 | 62.4 | 67.6 | 72.8 | 74.9  | 77.0 | 80.1 | 81.1 | 82.2 | 82.2 |
| 135°   | 53.0 | 59.3 | 64.5 | 69.7 | 71.8  | 73.8 | 77.0 | 79.0 | 79.0 | 80.1 |
| 137.5° | 49.9 | 55.1 | 60.3 | 65.5 | 67.6  | 69.7 | 73.8 | 74.9 | 75.9 | 77.0 |
| 140°   | 45.8 | 51.0 | 55.1 | 60.3 | 63.4  | 65.5 | 68.6 | 70.7 | 72.8 | 72.8 |
| 142.5° | 41.6 | 45.8 | 51.0 | 55.1 | 57.2  | 59.3 | 63.4 | 65.5 | 67.6 | 67.6 |
| 145°   | 37.4 | 41.6 | 45.8 | 49.9 | 52.0  | 54.1 | 57.2 | 59.3 | 60.3 | 61.4 |
| 147.5° | 33.3 | 37.4 | 40.6 | 44.7 | 45.8  | 47.8 | 49.9 | 52.0 | 53.0 | 54.1 |
| 150°   | 29.1 | 33.3 | 35.4 | 38.5 | 39.5  | 41.6 | 43.7 | 44.7 | 45.8 | 46.8 |
| 152.5° | 25.0 | 28.1 | 31.2 | 33.3 | 34.3  | 35.4 | 37.4 | 38.5 | 39.5 | 39.5 |
| 155°   | 21.8 | 23.9 | 26.0 | 28.1 | 29.1  | 30.2 | 31.2 | 32.2 | 33.3 | 33.3 |
| 157.5° | 17.7 | 19.8 | 21.8 | 23.9 | 23.9  | 25.0 | 26.0 | 27.0 | 28.1 | 28.1 |
| 160°   | 13.5 | 15.6 | 17.7 | 18.7 | 19.8  | 19.8 | 20.8 | 21.8 | 21.8 | 22.9 |
| 162.5° | 10.4 | 11.4 | 13.5 | 14.6 | 15.6  | 15.6 | 16.6 | 17.7 | 17.7 | 17.7 |
| 165°   | 7.3  | 8.3  | 9.4  | 10.4 | 11.4  | 11.4 | 12.5 | 12.5 | 12.5 | 12.5 |
| 167.5° | 4.2  | 5.2  | 5.2  | 6.2  | 7.3   | 7.3  | 8.3  | 8.3  | 8.3  | 8.3  |
| 170°   | 2.1  | 2.1  | 3.1  | 3.1  | 3.1   | 3.1  | 4.2  | 4.2  | 4.2  | 4.2  |
| 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)