

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: P241473

Luminaire Tested: **FVS8M-3-LD4-30-2HI-PA187-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-410-25)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS8M-3-LD4-30-2HI-PA187-UNV-EDC1
Description: FAILSAFE FVS8M LED FIXTURE
3FT LENGTH, 2-MODULE LED WITH PA187 LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

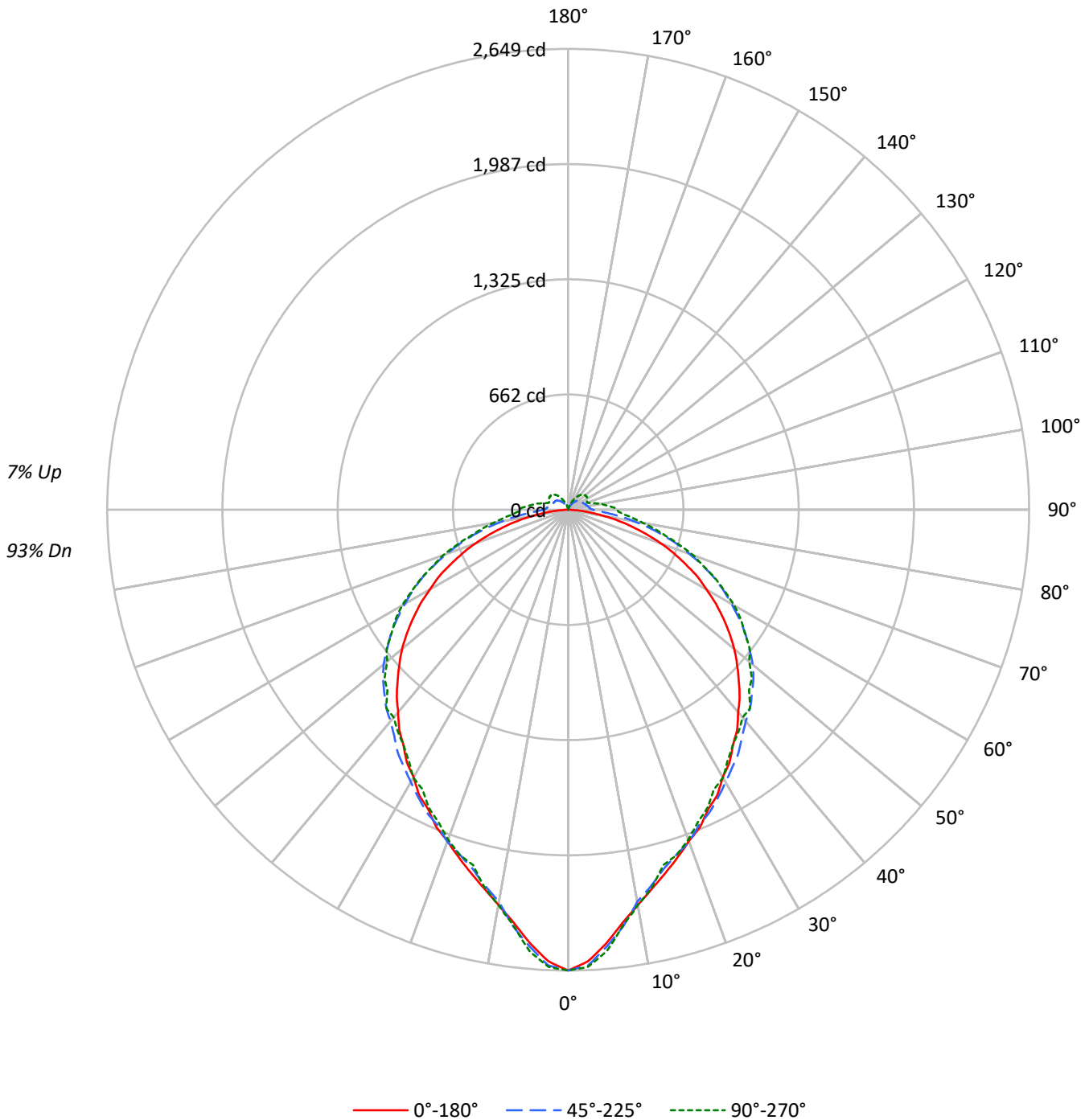
Lumens per Lamp: N/A
Luminaire Lumens: 7121.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 2.85' x H: 0.15')
CIE Type: Direct

Input Watts (W): 69.3
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: P241473

CATALOG NUMBER: FVS8M-3-LD4-30-2HI-PA187-UNV-EDC1

Luminous Intensity Polar Plot





TEST NUMBER: P241473

CATALOG NUMBER: FVS8M-3-LD4-30-2HI-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 | 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 | 80 | 74 | 93 | 85 | 79 | 73 | 80 | 75 | 70 | 76 | 72 | 68 | 72 | 68 | 65 | 63 |
| 3 | 87 | 77 | 68 | 61 | 84 | 74 | 67 | 60 | 71 | 64 | 58 | 67 | 61 | 57 | 63 | 59 | 55 | 52 |
| 4 | 80 | 68 | 59 | 52 | 77 | 66 | 57 | 51 | 62 | 55 | 50 | 59 | 53 | 48 | 56 | 51 | 47 | 44 |
| 5 | 73 | 60 | 51 | 44 | 71 | 59 | 50 | 44 | 56 | 48 | 43 | 53 | 47 | 42 | 51 | 45 | 41 | 38 |
| 6 | 68 | 54 | 45 | 39 | 65 | 53 | 44 | 38 | 50 | 43 | 37 | 48 | 41 | 36 | 46 | 40 | 36 | 33 |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 34 | 46 | 38 | 33 | 44 | 37 | 32 | 42 | 36 | 32 | 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 | 39 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |
| 10 | 51 | 38 | 30 | 25 | 50 | 37 | 30 | 24 | 36 | 29 | 24 | 34 | 28 | 24 | 33 | 27 | 23 | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15467 | 15467 | 15467 |
| 5° | 14607 | 14533 | 14637 |
| 10° | 13555 | 13113 | 13158 |
| 15° | 12887 | 12250 | 12050 |
| 20° | 12369 | 11783 | 11583 |
| 25° | 11960 | 11343 | 11030 |
| 30° | 11629 | 10955 | 10608 |
| 35° | 11359 | 10701 | 10154 |
| 40° | 11110 | 10394 | 9994 |
| 45° | 10893 | 10315 | 9897 |
| 50° | 10673 | 10198 | 9716 |
| 55° | 10319 | 9886 | 9537 |
| 60° | 9843 | 9451 | 9256 |
| 65° | 9294 | 9009 | 8672 |
| 70° | 8528 | 8223 | 8052 |
| 75° | 7267 | 7328 | 7078 |
| 80° | 5514 | 6125 | 6417 |
| 85° | 2902 | 4726 | 6068 |



TEST NUMBER: P241473

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 233.3 | 3.3 |
| 10°-20° | 605.2 | 8.5 |
| 20°-30° | 881.4 | 12.4 |
| 30°-40° | 1052.8 | 14.8 |
| 40°-50° | 1131.5 | 15.9 |
| 50°-60° | 1074.4 | 15.1 |
| 60°-70° | 868.2 | 12.2 |
| 70°-80° | 557.7 | 7.8 |
| 80°-90° | 244.1 | 3.4 |
| 90°-100° | 129.5 | 1.8 |
| 100°-110° | 98.0 | 1.4 |
| 110°-120° | 78.2 | 1.1 |
| 120°-130° | 69.8 | 1.0 |
| 130°-140° | 52.1 | 0.7 |
| 140°-150° | 30.2 | 0.4 |
| 150°-160° | 11.9 | 0.2 |
| 160°-170° | 2.5 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1719.9 | 24.2 |
| 0°-40° | 2772.8 | 38.9 |
| 0°-60° | 4978.7 | 69.9 |
| 0°-90° | 6648.6 | 93.4 |
| 90°-120° | 305.8 | 4.3 |
| 90°-150° | 457.9 | 6.4 |
| 90°-180° | 472.0 | 6.6 |
| 0°-180° | 7121.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2649 | 2649 | 2649 | 2649 | 2649 | |
| 5° | 2503 | 2505 | 2522 | 2542 | 2546 | 233 |
| 15° | 2161 | 2152 | 2133 | 2129 | 2114 | 609 |
| 25° | 1900 | 1921 | 1921 | 1900 | 1892 | 880 |
| 35° | 1650 | 1691 | 1707 | 1689 | 1650 | 1036 |
| 45° | 1386 | 1440 | 1494 | 1514 | 1469 | 1070 |
| 55° | 1088 | 1156 | 1243 | 1240 | 1239 | 971 |
| 65° | 746 | 818 | 926 | 934 | 932 | 740 |
| 75° | 384 | 461 | 562 | 597 | 578 | 407 |
| 85° | 69 | 132 | 228 | 285 | 324 | 87 |
| 90° | 1 | 60 | 141 | 198 | 280 | 3 |
| 95° | 1 | 54 | 122 | 180 | 233 | 1 |
| 105° | 1 | 47 | 106 | 143 | 142 | 1 |
| 115° | 1 | 43 | 93 | 117 | 119 | 1 |
| 125° | 1 | 37 | 88 | 124 | 130 | 1 |
| 135° | 1 | 27 | 72 | 110 | 122 | 1 |
| 145° | 2 | 15 | 50 | 80 | 94 | 1 |
| 155° | 2 | 6 | 24 | 43 | 50 | 1 |
| 165° | 3 | 2 | 7 | 13 | 17 | 1 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P241473

CATALOG NUMBER: FVS8M-3-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2648.7 | 2648.7 | 2648.7 | 2648.7 | 2648.7 | 2648.7 | 2648.7 | 2648.7 | 2648.7 | 2648.7 | 2648.7 |
| 2.5° | 2598.9 | 2602.7 | 2602.7 | 2601.7 | 2603.6 | 2602.7 | 2607.4 | 2614.0 | 2616.8 | 2620.5 | 2621.5 |
| 5° | 2503.0 | 2506.8 | 2501.2 | 2495.5 | 2499.3 | 2504.9 | 2509.6 | 2519.0 | 2518.1 | 2517.1 | 2521.8 |
| 7.5° | 2394.0 | 2395.0 | 2390.3 | 2387.4 | 2385.6 | 2389.3 | 2393.1 | 2396.8 | 2404.4 | 2412.8 | 2416.6 |
| 10° | 2306.6 | 2309.4 | 2301.0 | 2294.4 | 2291.6 | 2290.6 | 2296.3 | 2302.8 | 2305.7 | 2298.1 | 2287.8 |
| 12.5° | 2229.5 | 2227.6 | 2224.8 | 2213.5 | 2219.2 | 2221.1 | 2222.9 | 2221.1 | 2211.7 | 2207.0 | 2211.7 |
| 15° | 2160.9 | 2160.0 | 2157.1 | 2150.6 | 2152.4 | 2152.4 | 2146.8 | 2143.1 | 2143.1 | 2149.6 | 2132.7 |
| 17.5° | 2094.2 | 2093.2 | 2092.3 | 2082.9 | 2086.7 | 2087.6 | 2088.5 | 2087.6 | 2092.3 | 2081.0 | 2076.3 |
| 20° | 2027.4 | 2023.7 | 2024.6 | 2026.5 | 2035.9 | 2032.1 | 2031.2 | 2035.0 | 2027.4 | 2025.6 | 2031.2 |
| 22.5° | 1976.7 | 1974.8 | 1971.0 | 1970.1 | 1971.0 | 1969.2 | 1972.0 | 1973.9 | 1972.0 | 1977.6 | 1962.6 |
| 25° | 1900.5 | 1899.6 | 1901.5 | 1905.2 | 1913.7 | 1921.2 | 1926.9 | 1913.7 | 1924.0 | 1920.3 | 1921.2 |
| 27.5° | 1852.6 | 1852.6 | 1853.6 | 1850.7 | 1856.4 | 1861.1 | 1861.1 | 1869.5 | 1873.3 | 1865.8 | 1864.8 |
| 30° | 1775.5 | 1775.5 | 1781.2 | 1791.5 | 1800.9 | 1812.2 | 1810.3 | 1811.3 | 1812.2 | 1813.1 | 1808.4 |
| 32.5° | 1724.8 | 1726.7 | 1729.5 | 1730.4 | 1744.5 | 1742.6 | 1744.5 | 1760.5 | 1761.4 | 1760.5 | 1755.8 |
| 35° | 1650.5 | 1647.7 | 1659.0 | 1666.5 | 1687.2 | 1690.9 | 1693.8 | 1695.6 | 1705.0 | 1700.3 | 1706.9 |
| 37.5° | 1594.1 | 1595.1 | 1599.8 | 1611.0 | 1612.9 | 1627.0 | 1637.4 | 1640.2 | 1639.2 | 1643.9 | 1641.1 |
| 40° | 1519.9 | 1517.1 | 1524.6 | 1544.3 | 1561.2 | 1567.8 | 1573.5 | 1582.8 | 1586.6 | 1591.3 | 1587.5 |
| 42.5° | 1457.8 | 1456.0 | 1463.5 | 1480.4 | 1494.5 | 1506.7 | 1512.4 | 1522.7 | 1534.9 | 1541.5 | 1547.1 |
| 45° | 1386.4 | 1384.5 | 1395.8 | 1412.7 | 1432.5 | 1440.0 | 1450.3 | 1466.3 | 1481.3 | 1489.8 | 1493.6 |
| 47.5° | 1315.9 | 1317.8 | 1320.6 | 1340.3 | 1368.5 | 1377.0 | 1389.2 | 1395.8 | 1424.9 | 1433.4 | 1443.7 |
| 50° | 1246.4 | 1247.3 | 1255.8 | 1268.0 | 1291.5 | 1301.8 | 1318.7 | 1337.5 | 1350.7 | 1367.6 | 1384.5 |
| 52.5° | 1167.4 | 1166.5 | 1179.6 | 1197.5 | 1220.0 | 1234.1 | 1244.5 | 1271.7 | 1286.8 | 1299.9 | 1311.2 |
| 55° | 1087.5 | 1093.1 | 1102.5 | 1118.5 | 1141.1 | 1156.1 | 1166.5 | 1189.0 | 1218.2 | 1232.3 | 1242.6 |
| 57.5° | 1006.7 | 1011.4 | 1025.5 | 1040.5 | 1061.2 | 1071.5 | 1087.5 | 1111.9 | 1133.6 | 1149.5 | 1165.5 |
| 60° | 917.4 | 923.0 | 937.1 | 954.0 | 984.1 | 986.9 | 1005.7 | 1029.2 | 1051.8 | 1073.4 | 1083.7 |
| 62.5° | 841.2 | 841.2 | 851.6 | 873.2 | 894.8 | 908.0 | 925.8 | 946.5 | 971.9 | 989.8 | 1007.6 |
| 65° | 746.3 | 751.9 | 767.9 | 788.6 | 803.6 | 817.7 | 837.5 | 861.0 | 889.2 | 909.9 | 925.8 |
| 67.5° | 658.9 | 661.7 | 679.6 | 695.6 | 720.9 | 736.0 | 745.4 | 776.4 | 802.7 | 820.6 | 833.7 |
| 70° | 569.6 | 575.2 | 588.4 | 607.2 | 629.8 | 645.7 | 657.0 | 687.1 | 708.7 | 730.3 | 740.7 |
| 72.5° | 473.7 | 481.2 | 498.2 | 517.0 | 539.5 | 553.6 | 564.9 | 594.0 | 616.6 | 635.4 | 657.0 |
| 75° | 383.5 | 388.2 | 406.1 | 426.7 | 451.2 | 460.6 | 475.6 | 498.2 | 526.4 | 549.9 | 562.1 |
| 77.5° | 298.0 | 301.7 | 319.6 | 336.5 | 360.0 | 373.2 | 386.3 | 411.7 | 435.2 | 456.8 | 472.8 |
| 80° | 211.5 | 216.2 | 232.2 | 248.1 | 273.5 | 285.7 | 295.1 | 324.3 | 348.7 | 367.5 | 384.4 |
| 82.5° | 135.4 | 140.1 | 155.1 | 174.8 | 193.6 | 206.8 | 217.1 | 239.7 | 265.1 | 282.9 | 302.7 |
| 85° | 68.6 | 72.4 | 85.5 | 102.5 | 126.0 | 132.5 | 148.5 | 168.2 | 190.8 | 210.5 | 228.4 |
| 87.5° | 20.7 | 26.3 | 39.5 | 55.5 | 74.3 | 83.7 | 95.9 | 116.6 | 136.3 | 155.1 | 174.8 |
| 90° | 0.9 | 5.6 | 16.9 | 32.0 | 50.8 | 60.2 | 70.5 | 89.3 | 106.2 | 125.0 | 141.0 |
| 92.5° | 0.9 | 4.7 | 15.0 | 30.1 | 47.0 | 56.4 | 64.9 | 82.7 | 98.7 | 113.7 | 127.8 |
| 95° | 0.9 | 3.8 | 14.1 | 28.2 | 45.1 | 53.6 | 62.0 | 79.0 | 94.0 | 109.0 | 122.2 |
| 97.5° | 0.9 | 3.8 | 13.2 | 27.3 | 43.2 | 51.7 | 60.2 | 75.2 | 89.3 | 104.3 | 118.4 |
| 100° | 0.9 | 3.8 | 13.2 | 26.3 | 42.3 | 49.8 | 57.3 | 72.4 | 86.5 | 100.6 | 113.7 |
| 102.5° | 0.9 | 3.8 | 12.2 | 26.3 | 40.4 | 47.9 | 55.5 | 69.6 | 83.7 | 97.8 | 110.0 |
| 105° | 0.9 | 2.8 | 12.2 | 25.4 | 39.5 | 47.0 | 53.6 | 67.7 | 81.8 | 94.9 | 106.2 |
| 107.5° | 0.9 | 2.8 | 11.3 | 24.4 | 38.5 | 46.1 | 52.6 | 66.7 | 79.0 | 92.1 | 102.5 |
| 110° | 0.9 | 2.8 | 11.3 | 23.5 | 37.6 | 45.1 | 51.7 | 65.8 | 78.0 | 89.3 | 98.7 |



TEST NUMBER: P241473

CATALOG NUMBER: FVS8M-3-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-----|-----|------|------|------|-------|------|------|------|------|------|
| 112.5° | 0.9 | 2.8 | 10.3 | 22.6 | 36.7 | 44.2 | 50.8 | 63.9 | 76.1 | 86.5 | 95.9 |
| 115° | 0.9 | 1.9 | 10.3 | 21.6 | 35.7 | 43.2 | 49.8 | 63.0 | 74.3 | 84.6 | 93.1 |
| 117.5° | 0.9 | 1.9 | 9.4 | 21.6 | 34.8 | 41.4 | 48.9 | 61.1 | 72.4 | 82.7 | 92.1 |
| 120° | 0.9 | 1.9 | 9.4 | 20.7 | 32.9 | 40.4 | 47.0 | 59.2 | 71.4 | 81.8 | 91.2 |
| 122.5° | 0.9 | 1.9 | 8.5 | 19.7 | 32.0 | 38.5 | 45.1 | 57.3 | 69.6 | 80.8 | 90.2 |
| 125° | 0.9 | 0.9 | 7.5 | 17.9 | 30.1 | 36.7 | 43.2 | 55.5 | 66.7 | 78.0 | 88.4 |
| 127.5° | 0.9 | 0.9 | 6.6 | 16.9 | 29.1 | 34.8 | 41.4 | 53.6 | 64.9 | 75.2 | 85.5 |
| 130° | 0.9 | 0.9 | 5.6 | 15.0 | 27.3 | 32.9 | 38.5 | 49.8 | 61.1 | 71.4 | 81.8 |
| 132.5° | 0.9 | 0.9 | 5.6 | 14.1 | 24.4 | 30.1 | 35.7 | 47.0 | 57.3 | 67.7 | 77.1 |
| 135° | 0.9 | 0.9 | 4.7 | 12.2 | 22.6 | 27.3 | 32.9 | 43.2 | 53.6 | 63.0 | 72.4 |
| 137.5° | 1.9 | 0.9 | 3.8 | 10.3 | 19.7 | 24.4 | 29.1 | 39.5 | 48.9 | 58.3 | 66.7 |
| 140° | 1.9 | 0.9 | 2.8 | 8.5 | 16.9 | 21.6 | 26.3 | 34.8 | 44.2 | 52.6 | 62.0 |
| 142.5° | 1.9 | 1.9 | 1.9 | 7.5 | 14.1 | 17.9 | 22.6 | 31.0 | 39.5 | 47.9 | 55.5 |
| 145° | 1.9 | 1.9 | 1.9 | 5.6 | 11.3 | 15.0 | 18.8 | 26.3 | 33.8 | 42.3 | 49.8 |
| 147.5° | 1.9 | 1.9 | 1.9 | 4.7 | 9.4 | 12.2 | 15.0 | 22.6 | 29.1 | 35.7 | 43.2 |
| 150° | 1.9 | 1.9 | 1.9 | 3.8 | 7.5 | 10.3 | 12.2 | 17.9 | 24.4 | 31.0 | 36.7 |
| 152.5° | 1.9 | 1.9 | 1.9 | 2.8 | 5.6 | 7.5 | 9.4 | 15.0 | 19.7 | 25.4 | 31.0 |
| 155° | 1.9 | 1.9 | 1.9 | 1.9 | 4.7 | 5.6 | 7.5 | 11.3 | 16.0 | 19.7 | 24.4 |
| 157.5° | 1.9 | 1.9 | 1.9 | 1.9 | 2.8 | 3.8 | 5.6 | 8.5 | 12.2 | 16.0 | 18.8 |
| 160° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 2.8 | 3.8 | 5.6 | 8.5 | 11.3 | 14.1 |
| 162.5° | 2.8 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 2.8 | 3.8 | 5.6 | 8.5 | 10.3 |
| 165° | 2.8 | 1.9 | 1.9 | 1.9 | 0.9 | 1.9 | 1.9 | 2.8 | 3.8 | 4.7 | 6.6 |
| 167.5° | 2.8 | 2.8 | 1.9 | 1.9 | 1.9 | 0.9 | 0.9 | 0.9 | 1.9 | 2.8 | 3.8 |
| 170° | 2.8 | 2.8 | 1.9 | 1.9 | 1.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 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: P241473

CATALOG NUMBER: FVS8M-3-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2648.7 | 2648.7 | 2648.7 | 2648.7 | 2648.7 | 2648.7 | 2648.7 | 2648.7 | 2648.7 | 2648.7 |
| 2.5° | 2622.4 | 2628.1 | 2629.9 | 2630.9 | 2634.6 | 2632.8 | 2634.6 | 2630.9 | 2630.9 | 2629.9 |
| 5° | 2520.9 | 2524.7 | 2531.2 | 2540.6 | 2541.6 | 2542.5 | 2544.4 | 2549.1 | 2551.0 | 2546.3 |
| 7.5° | 2405.3 | 2410.0 | 2402.5 | 2396.8 | 2401.5 | 2400.6 | 2409.1 | 2403.4 | 2410.0 | 2410.9 |
| 10° | 2281.2 | 2282.2 | 2292.5 | 2300.0 | 2299.1 | 2302.8 | 2299.1 | 2294.4 | 2300.0 | 2307.5 |
| 12.5° | 2212.6 | 2198.5 | 2181.6 | 2190.0 | 2197.6 | 2200.4 | 2218.2 | 2221.1 | 2228.6 | 2222.9 |
| 15° | 2126.1 | 2135.5 | 2146.8 | 2129.9 | 2129.0 | 2123.3 | 2117.7 | 2113.9 | 2113.0 | 2113.9 |
| 17.5° | 2084.8 | 2068.8 | 2059.4 | 2067.9 | 2082.0 | 2090.4 | 2090.4 | 2092.3 | 2076.3 | 2079.1 |
| 20° | 2012.4 | 2017.1 | 2035.0 | 2024.6 | 2019.0 | 2013.3 | 2009.6 | 2016.2 | 2022.7 | 2017.1 |
| 22.5° | 1970.1 | 1977.6 | 1960.7 | 1980.4 | 1984.2 | 1990.8 | 1986.1 | 1959.8 | 1949.4 | 1944.7 |
| 25° | 1918.4 | 1910.9 | 1938.1 | 1909.9 | 1900.5 | 1885.5 | 1883.6 | 1887.4 | 1893.0 | 1892.1 |
| 27.5° | 1857.3 | 1874.2 | 1839.5 | 1847.9 | 1862.0 | 1863.9 | 1860.1 | 1839.5 | 1828.2 | 1812.2 |
| 30° | 1819.7 | 1788.7 | 1805.6 | 1803.7 | 1784.0 | 1779.3 | 1769.0 | 1774.6 | 1779.3 | 1778.4 |
| 32.5° | 1748.3 | 1755.8 | 1737.0 | 1723.8 | 1736.1 | 1745.5 | 1744.5 | 1722.9 | 1709.7 | 1706.0 |
| 35° | 1694.7 | 1688.1 | 1680.6 | 1699.4 | 1689.1 | 1670.3 | 1647.7 | 1648.6 | 1649.6 | 1649.6 |
| 37.5° | 1642.1 | 1625.1 | 1645.8 | 1611.0 | 1608.2 | 1615.7 | 1627.0 | 1620.4 | 1610.1 | 1608.2 |
| 40° | 1581.0 | 1599.8 | 1569.7 | 1590.4 | 1593.2 | 1589.4 | 1565.9 | 1558.4 | 1559.4 | 1559.4 |
| 42.5° | 1549.0 | 1542.4 | 1558.4 | 1554.7 | 1544.3 | 1543.4 | 1554.7 | 1554.7 | 1550.0 | 1547.1 |
| 45° | 1505.8 | 1502.0 | 1505.8 | 1504.8 | 1514.2 | 1515.2 | 1493.6 | 1476.6 | 1471.0 | 1469.1 |
| 47.5° | 1442.8 | 1464.4 | 1449.4 | 1456.9 | 1444.7 | 1430.6 | 1429.6 | 1433.4 | 1432.5 | 1430.6 |
| 50° | 1388.3 | 1387.3 | 1405.2 | 1374.2 | 1377.0 | 1384.5 | 1382.6 | 1368.5 | 1363.8 | 1357.3 |
| 52.5° | 1328.1 | 1333.8 | 1318.7 | 1324.4 | 1323.4 | 1313.1 | 1301.8 | 1306.5 | 1312.1 | 1315.9 |
| 55° | 1250.1 | 1258.6 | 1255.8 | 1251.1 | 1239.8 | 1243.5 | 1256.7 | 1250.1 | 1240.7 | 1238.8 |
| 57.5° | 1184.3 | 1174.9 | 1184.3 | 1178.7 | 1186.2 | 1181.5 | 1165.5 | 1167.4 | 1171.2 | 1176.8 |
| 60° | 1098.8 | 1111.0 | 1094.1 | 1107.2 | 1096.0 | 1084.7 | 1094.1 | 1107.2 | 1103.5 | 1102.5 |
| 62.5° | 1010.4 | 1016.1 | 1021.7 | 1010.4 | 1008.5 | 1016.1 | 1017.0 | 1005.7 | 1009.5 | 1013.2 |
| 65° | 928.7 | 923.0 | 933.4 | 933.4 | 934.3 | 930.5 | 921.1 | 926.8 | 931.5 | 931.5 |
| 67.5° | 839.4 | 847.8 | 843.1 | 847.8 | 841.2 | 843.1 | 846.9 | 839.4 | 841.2 | 836.5 |
| 70° | 751.0 | 758.5 | 764.2 | 761.3 | 765.1 | 767.9 | 761.3 | 760.4 | 761.3 | 764.2 |
| 72.5° | 664.5 | 671.1 | 683.3 | 686.2 | 692.7 | 689.0 | 678.6 | 673.9 | 669.2 | 669.2 |
| 75° | 574.3 | 586.5 | 593.1 | 603.4 | 596.9 | 592.2 | 596.9 | 585.6 | 580.9 | 578.1 |
| 77.5° | 486.9 | 501.0 | 513.2 | 507.6 | 510.4 | 515.1 | 510.4 | 507.6 | 504.7 | 506.6 |
| 80° | 398.5 | 416.4 | 423.0 | 426.7 | 431.4 | 431.4 | 433.3 | 434.2 | 435.2 | 435.2 |
| 82.5° | 321.5 | 333.7 | 344.0 | 352.5 | 355.3 | 355.3 | 361.9 | 367.5 | 373.2 | 376.9 |
| 85° | 251.0 | 261.3 | 271.6 | 279.2 | 284.8 | 289.5 | 299.8 | 308.3 | 317.7 | 324.3 |
| 87.5° | 191.7 | 202.1 | 213.4 | 224.6 | 230.3 | 236.9 | 248.1 | 260.4 | 276.3 | 289.5 |
| 90° | 153.2 | 166.4 | 179.5 | 192.7 | 198.3 | 204.9 | 219.0 | 235.0 | 261.3 | 280.1 |
| 92.5° | 141.0 | 154.1 | 166.4 | 179.5 | 186.1 | 192.7 | 207.7 | 230.3 | 255.7 | 266.0 |
| 95° | 135.4 | 148.5 | 160.7 | 172.9 | 180.5 | 188.0 | 204.0 | 219.0 | 229.3 | 233.1 |
| 97.5° | 130.7 | 142.9 | 154.1 | 167.3 | 173.9 | 180.5 | 192.7 | 200.2 | 206.8 | 209.6 |
| 100° | 126.0 | 138.2 | 149.4 | 160.7 | 165.4 | 169.2 | 177.6 | 186.1 | 193.6 | 195.5 |
| 102.5° | 122.2 | 132.5 | 141.9 | 150.4 | 154.1 | 157.9 | 165.4 | 169.2 | 167.3 | 166.4 |
| 105° | 116.6 | 126.0 | 133.5 | 140.1 | 142.9 | 144.7 | 147.6 | 146.6 | 143.8 | 141.9 |
| 107.5° | 111.9 | 118.4 | 125.0 | 128.8 | 130.7 | 130.7 | 129.7 | 128.8 | 126.9 | 126.9 |
| 110° | 107.2 | 112.8 | 117.5 | 120.3 | 121.3 | 121.3 | 121.3 | 119.4 | 119.4 | 118.4 |



TEST NUMBER: P241473

CATALOG NUMBER: FVS8M-3-LD4-30-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 103.4 | 109.0 | 112.8 | 115.6 | 116.6 | 116.6 | 117.5 | 117.5 | 116.6 | 116.6 |
| 115° | 100.6 | 106.2 | 110.9 | 114.7 | 116.6 | 117.5 | 119.4 | 120.3 | 119.4 | 119.4 |
| 117.5° | 99.6 | 106.2 | 111.9 | 117.5 | 119.4 | 121.3 | 124.1 | 124.1 | 123.1 | 123.1 |
| 120° | 99.6 | 107.2 | 113.7 | 119.4 | 122.2 | 125.0 | 127.8 | 127.8 | 126.9 | 126.9 |
| 122.5° | 99.6 | 107.2 | 113.7 | 120.3 | 124.1 | 126.0 | 129.7 | 129.7 | 128.8 | 128.8 |
| 125° | 97.8 | 106.2 | 113.7 | 120.3 | 124.1 | 126.9 | 129.7 | 130.7 | 129.7 | 129.7 |
| 127.5° | 94.9 | 103.4 | 111.9 | 118.4 | 122.2 | 125.0 | 128.8 | 129.7 | 129.7 | 129.7 |
| 130° | 91.2 | 100.6 | 108.1 | 115.6 | 119.4 | 122.2 | 126.0 | 127.8 | 128.8 | 128.8 |
| 132.5° | 87.4 | 94.9 | 103.4 | 110.9 | 114.7 | 117.5 | 122.2 | 124.1 | 126.0 | 126.0 |
| 135° | 81.8 | 90.2 | 98.7 | 106.2 | 110.0 | 112.8 | 117.5 | 120.3 | 121.3 | 122.2 |
| 137.5° | 76.1 | 84.6 | 92.1 | 99.6 | 103.4 | 106.2 | 111.9 | 114.7 | 116.6 | 117.5 |
| 140° | 69.6 | 78.0 | 85.5 | 93.1 | 96.8 | 99.6 | 104.3 | 108.1 | 110.0 | 110.9 |
| 142.5° | 63.0 | 70.5 | 78.0 | 85.5 | 88.4 | 91.2 | 96.8 | 100.6 | 102.5 | 103.4 |
| 145° | 56.4 | 63.0 | 70.5 | 77.1 | 79.9 | 81.8 | 87.4 | 90.2 | 93.1 | 94.0 |
| 147.5° | 49.8 | 56.4 | 62.0 | 67.7 | 70.5 | 72.4 | 77.1 | 79.9 | 81.8 | 82.7 |
| 150° | 43.2 | 48.9 | 54.5 | 59.2 | 61.1 | 63.0 | 65.8 | 68.6 | 70.5 | 71.4 |
| 152.5° | 36.7 | 41.4 | 46.1 | 49.8 | 51.7 | 52.6 | 56.4 | 58.3 | 59.2 | 60.2 |
| 155° | 29.1 | 33.8 | 38.5 | 41.4 | 43.2 | 44.2 | 47.0 | 47.9 | 48.9 | 49.8 |
| 157.5° | 22.6 | 26.3 | 30.1 | 33.8 | 34.8 | 36.7 | 37.6 | 39.5 | 39.5 | 39.5 |
| 160° | 16.9 | 19.7 | 23.5 | 26.3 | 27.3 | 29.1 | 30.1 | 31.0 | 32.0 | 32.0 |
| 162.5° | 12.2 | 14.1 | 16.9 | 18.8 | 19.7 | 21.6 | 22.6 | 23.5 | 24.4 | 24.4 |
| 165° | 8.5 | 9.4 | 11.3 | 13.2 | 13.2 | 14.1 | 16.0 | 16.0 | 16.9 | 16.9 |
| 167.5° | 4.7 | 5.6 | 6.6 | 7.5 | 7.5 | 8.5 | 9.4 | 10.3 | 10.3 | 10.3 |
| 170° | 1.9 | 1.9 | 2.8 | 2.8 | 2.8 | 3.8 | 3.8 | 4.7 | 4.7 | 4.7 |
| 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)