

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: P241378

Luminaire Tested: **FVS8M-3-LD4-35-3HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-410-28)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS8M-3-LD4-35-3HI-P125-UNV-EDC1
Description: FAILSAFE FVS8M LED FIXTURE
3FT LENGTH, 3-MODULE LED WITH P125 LENS
Light Source: (252) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

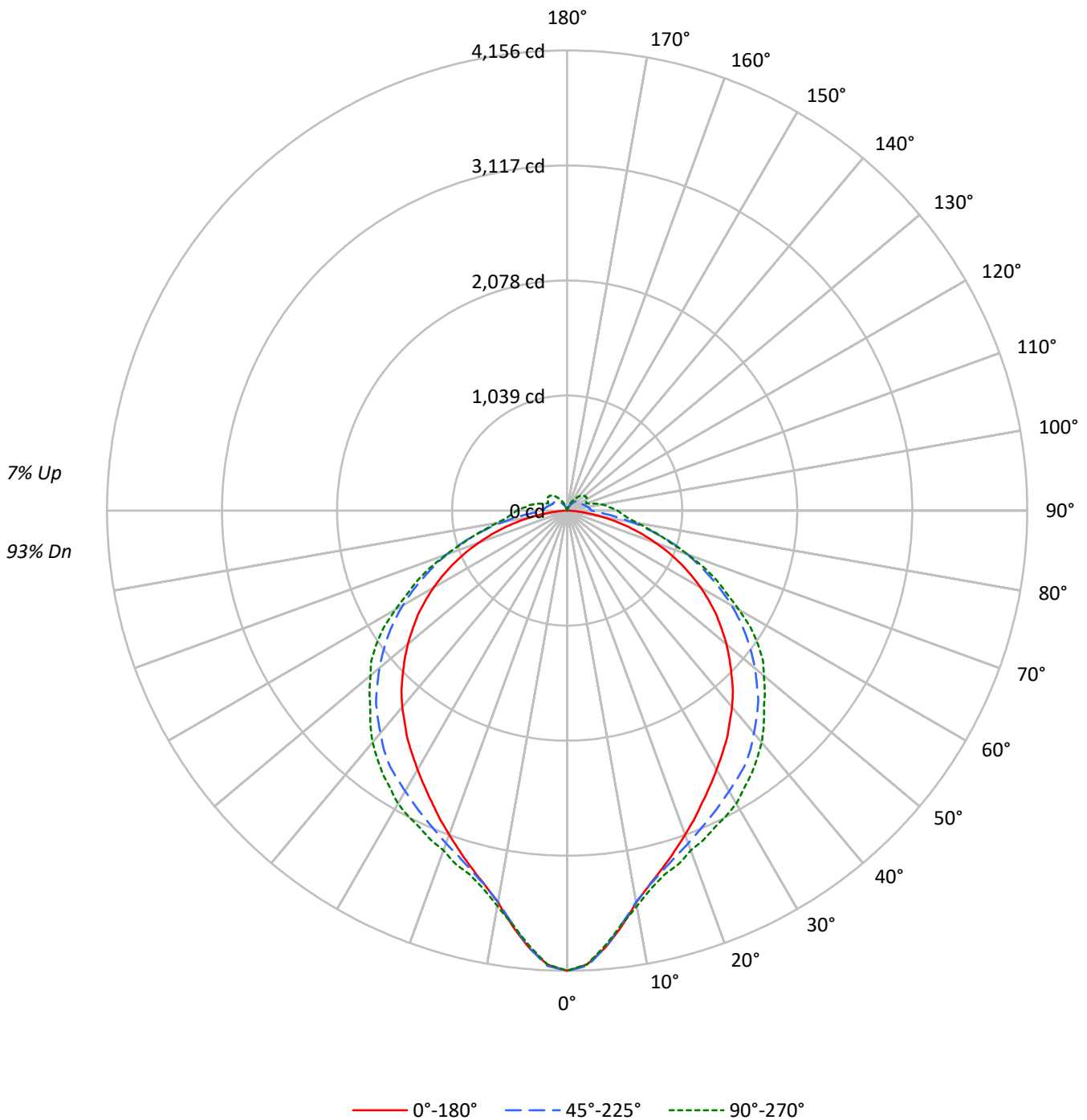
Lumens per Lamp: N/A
Luminaire Lumens: 11325.0 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 0.97 / 1.1 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 2.85' x H: 0.15')
CIE Type: Direct

Input Watts (W): 105
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: P241378

CATALOG NUMBER: FVS8M-3-LD4-35-3HI-P125-UNV-EDC1

Luminous Intensity Polar Plot





TEST NUMBER: P241378

CATALOG NUMBER: FVS8M-3-LD4-35-3HI-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 | 96 | 96 | 96 | 93 |
| 1 | 106 | 101 | 97 | 93 | 103 | 98 | 94 | 90 | 93 | 90 | 86 | 88 | 85 | 83 | 83 | 81 | 79 | 76 |
| 2 | 96 | 88 | 81 | 75 | 93 | 85 | 79 | 73 | 81 | 75 | 71 | 76 | 72 | 68 | 72 | 69 | 66 | 63 |
| 3 | 88 | 77 | 68 | 62 | 85 | 75 | 67 | 61 | 71 | 64 | 59 | 67 | 62 | 57 | 64 | 59 | 55 | 53 |
| 4 | 80 | 68 | 59 | 52 | 77 | 66 | 58 | 51 | 63 | 56 | 50 | 60 | 53 | 48 | 57 | 51 | 47 | 45 |
| 5 | 74 | 61 | 51 | 45 | 71 | 59 | 50 | 44 | 56 | 49 | 43 | 53 | 47 | 42 | 51 | 45 | 41 | 39 |
| 6 | 68 | 54 | 45 | 39 | 66 | 53 | 45 | 38 | 51 | 43 | 38 | 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 | 32 | 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 | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 24269 | 24269 | 24269 |
| 5° | 23116 | 22828 | 22656 |
| 10° | 21112 | 20569 | 20682 |
| 15° | 19918 | 19291 | 19390 |
| 20° | 19000 | 18549 | 18750 |
| 25° | 18243 | 18052 | 18400 |
| 30° | 17690 | 17721 | 18233 |
| 35° | 17307 | 17571 | 17867 |
| 40° | 16934 | 17176 | 17516 |
| 45° | 16500 | 16859 | 16935 |
| 50° | 16087 | 16306 | 16598 |
| 55° | 15631 | 15726 | 16182 |
| 60° | 14951 | 14948 | 15031 |
| 65° | 14047 | 13933 | 13894 |
| 70° | 12691 | 12838 | 12215 |
| 75° | 10937 | 11204 | 10559 |
| 80° | 8124 | 9291 | 9450 |
| 85° | 4187 | 7097 | 9699 |



TEST NUMBER: P241378

CATALOG NUMBER: FVS8M-3-LD4-35-3HI-P125-UNV-EDC1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 365.8 | 3.2 |
| 10°-20° | 951.8 | 8.4 |
| 20°-30° | 1408.8 | 12.4 |
| 30°-40° | 1724.5 | 15.2 |
| 40°-50° | 1833.7 | 16.2 |
| 50°-60° | 1719.1 | 15.2 |
| 60°-70° | 1353.6 | 12.0 |
| 70°-80° | 839.8 | 7.4 |
| 80°-90° | 373.3 | 3.3 |
| 90°-100° | 212.0 | 1.9 |
| 100°-110° | 159.2 | 1.4 |
| 110°-120° | 121.5 | 1.1 |
| 120°-130° | 108.8 | 1.0 |
| 130°-140° | 82.4 | 0.7 |
| 140°-150° | 47.7 | 0.4 |
| 150°-160° | 18.9 | 0.2 |
| 160°-170° | 4.1 | 0.0 |
| 170°-180° | 0.1 | 0.0 |
| 0°-30° | 2726.5 | 24.1 |
| 0°-40° | 4451.0 | 39.3 |
| 0°-60° | 8003.7 | 70.7 |
| 0°-90° | 10570.4 | 93.3 |
| 90°-120° | 492.6 | 4.3 |
| 90°-150° | 731.5 | 6.5 |
| 90°-180° | 755.0 | 6.7 |
| 0°-180° | 11325.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4156 | 4156 | 4156 | 4156 | 4156 | |
| 5° | 3961 | 3964 | 3961 | 3944 | 3942 | 366 |
| 15° | 3340 | 3331 | 3358 | 3395 | 3402 | 941 |
| 25° | 2899 | 2972 | 3058 | 3144 | 3156 | 1338 |
| 35° | 2515 | 2629 | 2803 | 2893 | 2903 | 1572 |
| 45° | 2100 | 2253 | 2441 | 2503 | 2514 | 1622 |
| 55° | 1647 | 1792 | 1977 | 2067 | 2102 | 1468 |
| 65° | 1128 | 1254 | 1432 | 1472 | 1492 | 1113 |
| 75° | 577 | 695 | 860 | 889 | 862 | 610 |
| 85° | 99 | 209 | 343 | 436 | 518 | 127 |
| 90° | 2 | 101 | 222 | 320 | 454 | 5 |
| 95° | 1 | 92 | 206 | 291 | 372 | 1 |
| 105° | 1 | 78 | 170 | 229 | 242 | 1 |
| 115° | 1 | 69 | 145 | 174 | 190 | 1 |
| 125° | 1 | 60 | 137 | 186 | 211 | 1 |
| 135° | 2 | 47 | 119 | 167 | 191 | 2 |
| 145° | 3 | 28 | 84 | 120 | 136 | 2 |
| 155° | 3 | 12 | 40 | 67 | 74 | 1 |
| 165° | 4 | 4 | 12 | 22 | 26 | 1 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P241378

CATALOG NUMBER: FVS8M-3-LD4-35-3HI-P125-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4156.1 | 4156.1 | 4156.1 | 4156.1 | 4156.1 | 4156.1 | 4156.1 | 4156.1 | 4156.1 | 4156.1 | 4156.1 |
| 2.5° | 4103.2 | 4110.1 | 4110.1 | 4111.1 | 4109.1 | 4115.0 | 4113.0 | 4114.0 | 4116.0 | 4118.9 | 4116.0 |
| 5° | 3961.1 | 3965.0 | 3961.1 | 3965.0 | 3962.1 | 3964.1 | 3966.0 | 3961.1 | 3964.1 | 3956.2 | 3961.1 |
| 7.5° | 3783.7 | 3779.8 | 3772.0 | 3765.1 | 3764.1 | 3764.1 | 3766.1 | 3771.0 | 3773.9 | 3771.0 | 3768.1 |
| 10° | 3592.6 | 3598.5 | 3597.5 | 3592.6 | 3592.6 | 3592.6 | 3597.5 | 3595.6 | 3587.7 | 3589.7 | 3588.7 |
| 12.5° | 3455.4 | 3458.4 | 3452.5 | 3449.6 | 3442.7 | 3449.6 | 3444.7 | 3441.7 | 3454.5 | 3460.3 | 3459.4 |
| 15° | 3339.8 | 3335.9 | 3335.9 | 3331.0 | 3328.0 | 3331.0 | 3332.9 | 3335.9 | 3343.7 | 3352.5 | 3358.4 |
| 17.5° | 3225.1 | 3228.1 | 3226.1 | 3226.1 | 3230.0 | 3228.1 | 3236.9 | 3248.7 | 3262.4 | 3269.2 | 3271.2 |
| 20° | 3114.4 | 3116.4 | 3123.2 | 3123.2 | 3132.0 | 3138.9 | 3146.7 | 3160.5 | 3170.3 | 3186.9 | 3197.7 |
| 22.5° | 3008.6 | 3008.6 | 3017.4 | 3031.1 | 3041.9 | 3052.7 | 3064.4 | 3083.0 | 3090.9 | 3109.5 | 3124.2 |
| 25° | 2898.8 | 2904.7 | 2919.4 | 2935.1 | 2955.6 | 2972.3 | 2984.1 | 2999.7 | 3024.2 | 3038.0 | 3057.6 |
| 27.5° | 2798.9 | 2811.6 | 2820.4 | 2845.9 | 2870.4 | 2886.1 | 2900.8 | 2923.3 | 2944.9 | 2968.4 | 2990.9 |
| 30° | 2700.9 | 2708.7 | 2723.4 | 2752.8 | 2787.1 | 2803.8 | 2811.6 | 2844.9 | 2867.5 | 2902.7 | 2925.3 |
| 32.5° | 2604.8 | 2614.6 | 2634.2 | 2657.7 | 2697.9 | 2714.6 | 2731.2 | 2768.5 | 2796.9 | 2831.2 | 2864.5 |
| 35° | 2514.7 | 2515.6 | 2543.1 | 2573.5 | 2609.7 | 2629.3 | 2646.0 | 2684.2 | 2724.4 | 2761.6 | 2802.8 |
| 37.5° | 2409.8 | 2423.5 | 2443.1 | 2478.4 | 2514.7 | 2540.1 | 2561.7 | 2599.9 | 2649.9 | 2690.1 | 2719.5 |
| 40° | 2316.7 | 2327.5 | 2347.1 | 2380.4 | 2418.6 | 2445.1 | 2468.6 | 2518.6 | 2564.6 | 2602.9 | 2623.4 |
| 42.5° | 2215.8 | 2218.7 | 2247.1 | 2285.3 | 2325.5 | 2349.0 | 2375.5 | 2427.4 | 2467.6 | 2500.9 | 2534.3 |
| 45° | 2100.1 | 2115.8 | 2144.2 | 2181.5 | 2230.5 | 2253.0 | 2280.4 | 2329.4 | 2374.5 | 2407.8 | 2441.2 |
| 47.5° | 1989.4 | 2005.1 | 2033.5 | 2075.6 | 2124.6 | 2146.2 | 2173.6 | 2215.8 | 2270.6 | 2304.0 | 2323.6 |
| 50° | 1878.6 | 1895.3 | 1924.7 | 1963.9 | 2012.9 | 2032.5 | 2056.0 | 2111.9 | 2154.0 | 2186.4 | 2213.8 |
| 52.5° | 1759.1 | 1777.7 | 1805.1 | 1850.2 | 1895.3 | 1918.8 | 1935.5 | 1988.4 | 2031.5 | 2074.6 | 2095.2 |
| 55° | 1647.4 | 1651.3 | 1684.6 | 1726.7 | 1768.9 | 1792.4 | 1814.0 | 1863.0 | 1909.0 | 1944.3 | 1976.6 |
| 57.5° | 1520.0 | 1527.8 | 1555.2 | 1603.3 | 1641.5 | 1665.0 | 1685.6 | 1736.5 | 1772.8 | 1814.9 | 1849.2 |
| 60° | 1393.5 | 1401.4 | 1426.9 | 1462.1 | 1503.3 | 1529.8 | 1551.3 | 1601.3 | 1642.5 | 1681.7 | 1714.0 |
| 62.5° | 1261.2 | 1274.0 | 1296.5 | 1328.9 | 1370.0 | 1395.5 | 1416.1 | 1462.1 | 1505.3 | 1535.6 | 1574.8 |
| 65° | 1128.0 | 1131.9 | 1159.3 | 1195.6 | 1232.8 | 1254.4 | 1278.9 | 1320.0 | 1360.2 | 1398.4 | 1431.8 |
| 67.5° | 990.8 | 997.6 | 1017.2 | 1054.5 | 1093.7 | 1118.2 | 1138.7 | 1178.9 | 1225.0 | 1259.3 | 1290.6 |
| 70° | 847.7 | 859.5 | 881.0 | 917.3 | 955.5 | 979.0 | 990.8 | 1033.9 | 1074.1 | 1120.1 | 1156.4 |
| 72.5° | 713.4 | 723.2 | 748.7 | 773.2 | 814.4 | 833.0 | 854.6 | 892.8 | 934.9 | 973.1 | 1013.3 |
| 75° | 577.2 | 590.0 | 604.7 | 636.0 | 671.3 | 694.8 | 720.3 | 749.7 | 794.8 | 831.0 | 859.5 |
| 77.5° | 443.9 | 448.8 | 473.3 | 506.7 | 539.0 | 560.6 | 573.3 | 611.5 | 655.6 | 695.8 | 722.3 |
| 80° | 311.6 | 321.4 | 347.9 | 378.3 | 404.7 | 429.2 | 443.0 | 479.2 | 524.3 | 561.5 | 583.1 |
| 82.5° | 196.0 | 205.8 | 231.3 | 257.7 | 290.1 | 311.6 | 325.4 | 364.6 | 404.7 | 437.1 | 457.7 |
| 85° | 99.0 | 110.7 | 132.3 | 155.8 | 193.1 | 208.7 | 224.4 | 257.7 | 297.9 | 319.5 | 343.0 |
| 87.5° | 32.3 | 41.2 | 62.7 | 87.2 | 117.6 | 135.2 | 149.0 | 185.2 | 213.6 | 240.1 | 261.7 |
| 90° | 2.0 | 10.8 | 30.4 | 56.8 | 86.2 | 100.9 | 117.6 | 148.0 | 175.4 | 199.9 | 221.5 |
| 92.5° | 1.0 | 8.8 | 27.4 | 52.9 | 81.3 | 96.0 | 110.7 | 139.2 | 163.7 | 187.2 | 211.7 |
| 95° | 1.0 | 7.8 | 26.5 | 51.0 | 78.4 | 92.1 | 105.8 | 132.3 | 157.8 | 182.3 | 205.8 |
| 97.5° | 1.0 | 6.9 | 24.5 | 49.0 | 75.5 | 88.2 | 100.9 | 126.4 | 151.9 | 175.4 | 197.0 |
| 100° | 1.0 | 6.9 | 23.5 | 47.0 | 71.5 | 84.3 | 97.0 | 122.5 | 145.0 | 167.6 | 188.2 |
| 102.5° | 1.0 | 6.9 | 22.5 | 45.1 | 68.6 | 80.4 | 93.1 | 116.6 | 139.2 | 160.7 | 179.3 |
| 105° | 1.0 | 5.9 | 21.6 | 42.1 | 65.7 | 78.4 | 89.2 | 111.7 | 133.3 | 151.9 | 170.5 |
| 107.5° | 1.0 | 5.9 | 20.6 | 41.2 | 63.7 | 74.5 | 86.2 | 107.8 | 127.4 | 146.0 | 162.7 |
| 110° | 1.0 | 4.9 | 19.6 | 39.2 | 61.7 | 72.5 | 83.3 | 103.9 | 123.5 | 140.1 | 154.8 |



TEST NUMBER: P241378

CATALOG NUMBER: FVS8M-3-LD4-35-3HI-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-----|-----|------|------|------|-------|------|-------|-------|-------|-------|
| 112.5° | 1.0 | 4.9 | 18.6 | 37.2 | 59.8 | 70.6 | 81.3 | 101.9 | 119.6 | 136.2 | 149.9 |
| 115° | 1.0 | 4.9 | 17.6 | 36.3 | 57.8 | 68.6 | 79.4 | 99.0 | 116.6 | 132.3 | 145.0 |
| 117.5° | 1.0 | 3.9 | 16.7 | 35.3 | 55.9 | 66.6 | 77.4 | 96.0 | 114.7 | 129.4 | 142.1 |
| 120° | 1.0 | 3.9 | 15.7 | 33.3 | 53.9 | 64.7 | 74.5 | 94.1 | 112.7 | 127.4 | 140.1 |
| 122.5° | 1.0 | 3.9 | 14.7 | 32.3 | 51.9 | 61.7 | 72.5 | 92.1 | 109.8 | 126.4 | 139.2 |
| 125° | 1.0 | 2.9 | 14.7 | 31.4 | 50.0 | 59.8 | 70.6 | 89.2 | 107.8 | 123.5 | 137.2 |
| 127.5° | 2.0 | 2.9 | 13.7 | 29.4 | 48.0 | 56.8 | 66.6 | 86.2 | 103.9 | 120.5 | 133.3 |
| 130° | 2.0 | 2.9 | 11.8 | 27.4 | 45.1 | 53.9 | 63.7 | 82.3 | 100.0 | 115.6 | 129.4 |
| 132.5° | 2.0 | 2.0 | 10.8 | 25.5 | 42.1 | 51.0 | 59.8 | 78.4 | 95.1 | 110.7 | 124.5 |
| 135° | 2.0 | 2.0 | 9.8 | 22.5 | 39.2 | 47.0 | 55.9 | 73.5 | 90.2 | 104.9 | 118.6 |
| 137.5° | 2.0 | 2.0 | 7.8 | 20.6 | 34.3 | 42.1 | 51.0 | 67.6 | 83.3 | 97.0 | 111.7 |
| 140° | 2.0 | 2.0 | 6.9 | 17.6 | 30.4 | 37.2 | 45.1 | 60.8 | 76.4 | 90.2 | 102.9 |
| 142.5° | 2.0 | 2.0 | 5.9 | 14.7 | 26.5 | 32.3 | 39.2 | 53.9 | 68.6 | 81.3 | 94.1 |
| 145° | 2.9 | 2.0 | 4.9 | 12.7 | 22.5 | 28.4 | 33.3 | 47.0 | 59.8 | 71.5 | 84.3 |
| 147.5° | 2.9 | 2.0 | 3.9 | 9.8 | 18.6 | 23.5 | 28.4 | 40.2 | 51.0 | 61.7 | 73.5 |
| 150° | 2.9 | 2.9 | 2.9 | 7.8 | 14.7 | 18.6 | 23.5 | 33.3 | 42.1 | 51.9 | 61.7 |
| 152.5° | 2.9 | 2.9 | 2.9 | 6.9 | 11.8 | 15.7 | 18.6 | 26.5 | 35.3 | 43.1 | 51.0 |
| 155° | 2.9 | 2.9 | 2.9 | 4.9 | 8.8 | 11.8 | 14.7 | 20.6 | 27.4 | 34.3 | 40.2 |
| 157.5° | 2.9 | 2.9 | 2.9 | 3.9 | 6.9 | 8.8 | 10.8 | 15.7 | 21.6 | 26.5 | 31.4 |
| 160° | 3.9 | 2.9 | 2.9 | 2.9 | 4.9 | 6.9 | 8.8 | 11.8 | 15.7 | 19.6 | 23.5 |
| 162.5° | 3.9 | 2.9 | 2.9 | 2.9 | 3.9 | 4.9 | 5.9 | 8.8 | 11.8 | 14.7 | 17.6 |
| 165° | 3.9 | 3.9 | 2.9 | 2.0 | 2.9 | 3.9 | 3.9 | 5.9 | 7.8 | 9.8 | 11.8 |
| 167.5° | 3.9 | 3.9 | 2.9 | 2.9 | 2.0 | 2.0 | 2.9 | 3.9 | 4.9 | 5.9 | 6.9 |
| 170° | 3.9 | 3.9 | 2.9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.9 | 2.9 | 3.9 |
| 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: P241378

CATALOG NUMBER: FVS8M-3-LD4-35-3HI-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4156.1 | 4156.1 | 4156.1 | 4156.1 | 4156.1 | 4156.1 | 4156.1 | 4156.1 | 4156.1 | 4156.1 |
| 2.5° | 4110.1 | 4108.1 | 4104.2 | 4104.2 | 4104.2 | 4101.3 | 4100.3 | 4095.4 | 4096.4 | 4101.3 |
| 5° | 3948.4 | 3954.3 | 3942.5 | 3945.4 | 3943.5 | 3945.4 | 3945.4 | 3946.4 | 3939.6 | 3941.5 |
| 7.5° | 3761.2 | 3761.2 | 3758.3 | 3765.1 | 3758.3 | 3760.2 | 3764.1 | 3764.1 | 3765.1 | 3769.0 |
| 10° | 3591.7 | 3594.6 | 3598.5 | 3606.4 | 3609.3 | 3613.2 | 3611.3 | 3623.0 | 3624.0 | 3626.9 |
| 12.5° | 3466.2 | 3476.0 | 3476.0 | 3485.8 | 3487.8 | 3487.8 | 3498.6 | 3499.5 | 3501.5 | 3495.6 |
| 15° | 3364.3 | 3375.1 | 3383.9 | 3394.7 | 3394.7 | 3403.5 | 3419.2 | 3403.5 | 3411.3 | 3401.5 |
| 17.5° | 3285.9 | 3295.7 | 3308.4 | 3312.4 | 3317.3 | 3324.1 | 3335.9 | 3339.8 | 3344.7 | 3348.6 |
| 20° | 3210.4 | 3223.2 | 3237.9 | 3255.5 | 3264.3 | 3261.4 | 3254.5 | 3270.2 | 3261.4 | 3265.3 |
| 22.5° | 3141.8 | 3164.4 | 3171.2 | 3182.0 | 3193.8 | 3201.6 | 3211.4 | 3220.2 | 3221.2 | 3219.3 |
| 25° | 3076.2 | 3094.8 | 3120.3 | 3141.8 | 3143.8 | 3145.8 | 3145.8 | 3148.7 | 3153.6 | 3156.5 |
| 27.5° | 3013.5 | 3045.8 | 3061.5 | 3083.0 | 3093.8 | 3106.6 | 3124.2 | 3118.3 | 3116.4 | 3109.5 |
| 30° | 2956.6 | 2986.0 | 3018.4 | 3047.8 | 3049.7 | 3050.7 | 3044.8 | 3048.7 | 3048.7 | 3056.6 |
| 32.5° | 2898.8 | 2934.1 | 2956.6 | 2961.5 | 2969.4 | 2980.1 | 2984.1 | 2978.2 | 2976.2 | 2973.3 |
| 35° | 2828.3 | 2857.7 | 2862.6 | 2886.1 | 2892.9 | 2890.0 | 2884.1 | 2887.1 | 2892.9 | 2902.7 |
| 37.5° | 2743.0 | 2759.7 | 2795.9 | 2798.9 | 2805.7 | 2813.6 | 2828.3 | 2824.3 | 2822.4 | 2818.5 |
| 40° | 2652.8 | 2681.3 | 2699.9 | 2721.4 | 2727.3 | 2725.4 | 2716.5 | 2722.4 | 2729.3 | 2733.2 |
| 42.5° | 2560.7 | 2583.3 | 2606.8 | 2612.7 | 2614.6 | 2619.5 | 2628.3 | 2639.1 | 2633.2 | 2629.3 |
| 45° | 2460.8 | 2477.4 | 2485.3 | 2498.0 | 2502.9 | 2503.9 | 2502.9 | 2503.9 | 2510.7 | 2513.7 |
| 47.5° | 2347.1 | 2366.7 | 2370.6 | 2383.3 | 2383.3 | 2389.2 | 2402.0 | 2410.8 | 2415.7 | 2421.6 |
| 50° | 2230.5 | 2244.2 | 2267.7 | 2274.6 | 2285.3 | 2298.1 | 2298.1 | 2303.0 | 2310.8 | 2318.7 |
| 52.5° | 2122.7 | 2139.3 | 2155.0 | 2178.5 | 2178.5 | 2182.4 | 2195.2 | 2213.8 | 2223.6 | 2229.5 |
| 55° | 1996.2 | 2019.8 | 2047.2 | 2062.9 | 2066.8 | 2079.5 | 2091.3 | 2094.2 | 2096.2 | 2102.1 |
| 57.5° | 1867.9 | 1896.3 | 1919.8 | 1947.2 | 1947.2 | 1947.2 | 1957.0 | 1963.9 | 1969.8 | 1962.9 |
| 60° | 1742.4 | 1765.0 | 1783.6 | 1800.2 | 1791.4 | 1800.2 | 1802.2 | 1793.4 | 1789.5 | 1790.4 |
| 62.5° | 1604.2 | 1625.8 | 1637.6 | 1634.6 | 1633.6 | 1633.6 | 1628.7 | 1620.9 | 1623.8 | 1624.8 |
| 65° | 1469.0 | 1474.9 | 1479.8 | 1481.7 | 1471.9 | 1469.0 | 1471.9 | 1479.8 | 1480.8 | 1492.5 |
| 67.5° | 1319.1 | 1328.9 | 1325.9 | 1329.8 | 1326.9 | 1326.9 | 1322.0 | 1321.0 | 1310.2 | 1328.9 |
| 70° | 1175.0 | 1180.9 | 1188.7 | 1187.7 | 1182.8 | 1175.0 | 1160.3 | 1158.3 | 1150.5 | 1159.3 |
| 72.5° | 1024.1 | 1041.7 | 1040.7 | 1038.8 | 1034.9 | 1028.0 | 1011.3 | 1005.5 | 996.6 | 994.7 |
| 75° | 881.0 | 890.8 | 895.7 | 895.7 | 888.9 | 886.9 | 877.1 | 868.3 | 865.3 | 862.4 |
| 77.5° | 739.9 | 753.6 | 758.5 | 760.5 | 755.6 | 758.5 | 750.7 | 742.8 | 738.9 | 745.8 |
| 80° | 607.6 | 615.4 | 626.2 | 635.0 | 639.9 | 638.0 | 638.0 | 639.9 | 637.0 | 640.9 |
| 82.5° | 477.3 | 492.9 | 511.6 | 518.4 | 529.2 | 533.1 | 541.9 | 552.7 | 560.6 | 563.5 |
| 85° | 365.5 | 386.1 | 406.7 | 424.3 | 436.1 | 447.9 | 468.4 | 491.0 | 508.6 | 518.4 |
| 87.5° | 287.1 | 308.7 | 333.2 | 356.7 | 365.5 | 373.4 | 390.0 | 420.4 | 458.6 | 483.1 |
| 90° | 247.0 | 273.4 | 291.1 | 307.7 | 319.5 | 329.3 | 355.7 | 389.1 | 432.2 | 453.7 |
| 92.5° | 236.2 | 253.8 | 273.4 | 293.0 | 305.8 | 317.5 | 341.0 | 368.5 | 396.9 | 414.5 |
| 95° | 224.4 | 245.0 | 266.6 | 282.2 | 291.1 | 300.9 | 319.5 | 340.1 | 362.6 | 372.4 |
| 97.5° | 217.6 | 237.2 | 252.8 | 268.5 | 277.3 | 287.1 | 304.8 | 325.4 | 344.0 | 352.8 |
| 100° | 206.8 | 223.4 | 239.1 | 254.8 | 263.6 | 271.5 | 289.1 | 304.8 | 313.6 | 316.5 |
| 102.5° | 196.0 | 211.7 | 227.4 | 241.1 | 247.9 | 254.8 | 266.6 | 276.4 | 278.3 | 281.3 |
| 105° | 187.2 | 200.9 | 212.7 | 224.4 | 229.3 | 234.2 | 242.1 | 243.0 | 243.0 | 242.1 |
| 107.5° | 177.4 | 189.1 | 198.9 | 205.8 | 207.8 | 209.7 | 211.7 | 209.7 | 208.7 | 208.7 |
| 110° | 168.6 | 177.4 | 184.2 | 188.2 | 189.1 | 190.1 | 189.1 | 189.1 | 190.1 | 189.1 |



TEST NUMBER: P241378

CATALOG NUMBER: FVS8M-3-LD4-35-3HI-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 160.7 | 168.6 | 173.5 | 175.4 | 176.4 | 177.4 | 179.3 | 181.3 | 183.3 | 184.2 |
| 115° | 154.8 | 161.7 | 166.6 | 171.5 | 173.5 | 175.4 | 180.3 | 185.2 | 189.1 | 190.1 |
| 117.5° | 151.9 | 159.7 | 167.6 | 173.5 | 177.4 | 180.3 | 187.2 | 194.0 | 198.0 | 198.9 |
| 120° | 151.9 | 161.7 | 170.5 | 178.4 | 182.3 | 186.2 | 194.0 | 200.9 | 204.8 | 206.8 |
| 122.5° | 150.9 | 162.7 | 172.5 | 181.3 | 185.2 | 189.1 | 197.0 | 203.8 | 208.7 | 210.7 |
| 125° | 149.9 | 161.7 | 172.5 | 182.3 | 186.2 | 190.1 | 198.0 | 203.8 | 208.7 | 210.7 |
| 127.5° | 146.0 | 158.8 | 169.5 | 179.3 | 184.2 | 189.1 | 196.0 | 201.9 | 206.8 | 208.7 |
| 130° | 142.1 | 153.9 | 164.6 | 175.4 | 180.3 | 185.2 | 193.1 | 198.9 | 203.8 | 205.8 |
| 132.5° | 136.2 | 149.0 | 159.7 | 169.5 | 174.4 | 179.3 | 187.2 | 194.0 | 198.0 | 199.9 |
| 135° | 130.3 | 143.1 | 152.9 | 161.7 | 166.6 | 171.5 | 179.3 | 185.2 | 190.1 | 191.1 |
| 137.5° | 123.5 | 134.3 | 145.0 | 153.9 | 157.8 | 161.7 | 168.6 | 175.4 | 178.4 | 180.3 |
| 140° | 114.7 | 125.4 | 135.2 | 143.1 | 147.0 | 150.9 | 156.8 | 161.7 | 165.6 | 167.6 |
| 142.5° | 105.8 | 115.6 | 123.5 | 131.3 | 135.2 | 137.2 | 143.1 | 148.0 | 150.9 | 151.9 |
| 145° | 95.1 | 103.9 | 111.7 | 118.6 | 120.5 | 123.5 | 128.4 | 132.3 | 134.3 | 136.2 |
| 147.5° | 83.3 | 91.1 | 99.0 | 104.9 | 107.8 | 109.8 | 114.7 | 117.6 | 119.6 | 120.5 |
| 150° | 71.5 | 79.4 | 86.2 | 91.1 | 93.1 | 96.0 | 99.0 | 102.9 | 103.9 | 104.9 |
| 152.5° | 58.8 | 66.6 | 72.5 | 78.4 | 80.4 | 81.3 | 85.3 | 87.2 | 89.2 | 89.2 |
| 155° | 48.0 | 53.9 | 59.8 | 64.7 | 66.6 | 67.6 | 70.6 | 72.5 | 73.5 | 74.5 |
| 157.5° | 37.2 | 42.1 | 48.0 | 52.9 | 53.9 | 54.9 | 57.8 | 58.8 | 59.8 | 60.8 |
| 160° | 28.4 | 32.3 | 36.3 | 40.2 | 42.1 | 44.1 | 46.1 | 47.0 | 48.0 | 47.0 |
| 162.5° | 20.6 | 23.5 | 26.5 | 29.4 | 31.4 | 33.3 | 35.3 | 36.3 | 36.3 | 36.3 |
| 165° | 13.7 | 16.7 | 18.6 | 20.6 | 21.6 | 22.5 | 25.5 | 25.5 | 25.5 | 25.5 |
| 167.5° | 8.8 | 9.8 | 10.8 | 12.7 | 12.7 | 13.7 | 15.7 | 16.7 | 16.7 | 16.7 |
| 170° | 3.9 | 4.9 | 5.9 | 5.9 | 6.9 | 6.9 | 7.8 | 8.8 | 8.8 | 7.8 |
| 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)