

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: P241487

Luminaire Tested: **FVS8M-3-LD4-40-3HI-PA187-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-410-30)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS8M-3-LD4-40-3HI-PA187-UNV-EDC1
Description: FAILSAFE FVS8M LED FIXTURE
3FT LENGTH, 3-MODULE LED WITH PA187 LENS
Light Source: (252) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

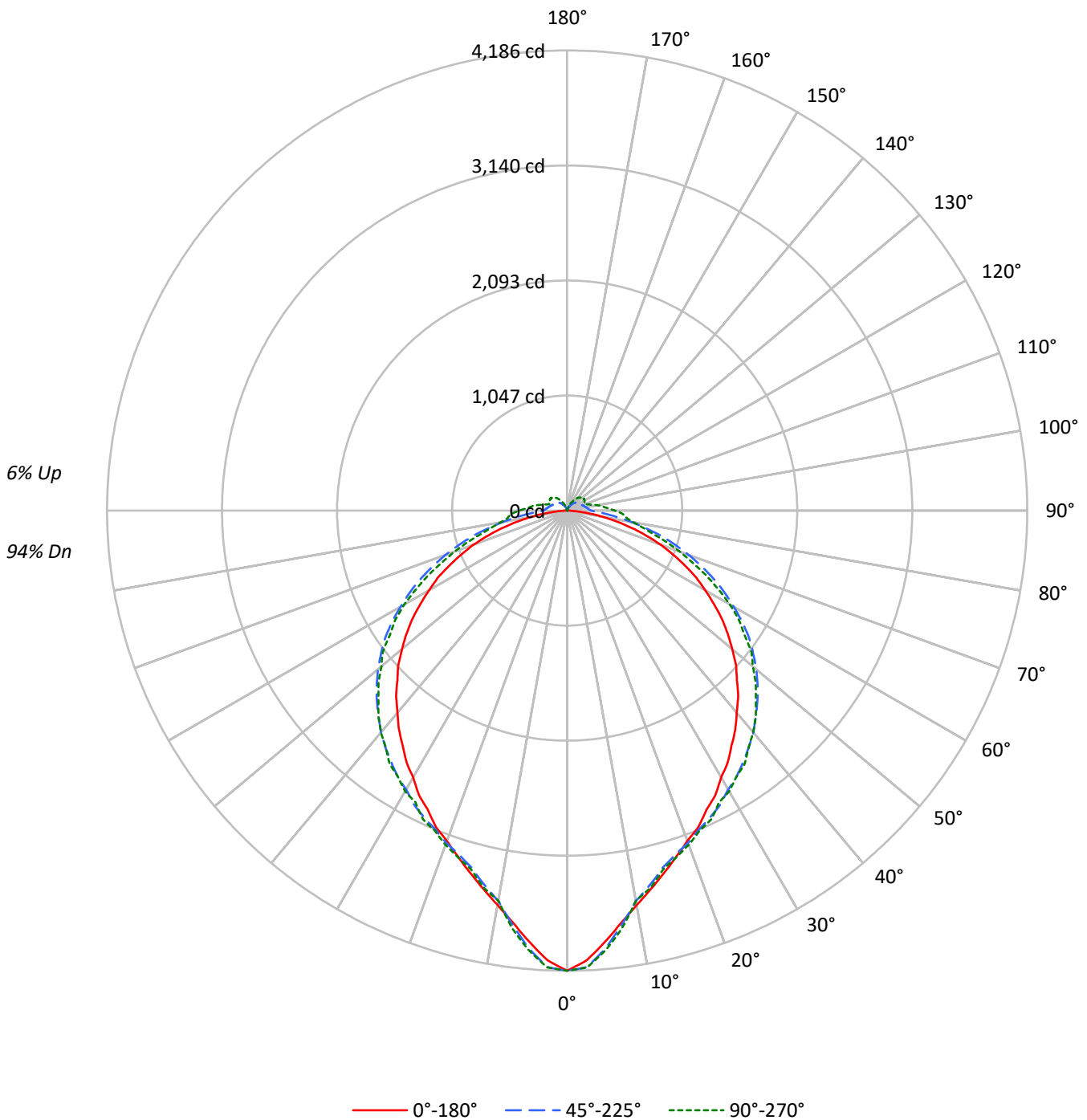
Lumens per Lamp: N/A
Luminaire Lumens: 11315.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 2.85' x H: 0.15')
CIE Type: Direct

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: P241487

CATALOG NUMBER: FVS8M-3-LD4-40-3HI-PA187-UNV-EDC1

Luminous Intensity Polar Plot





TEST NUMBER: P241487

CATALOG NUMBER: FVS8M-3-LD4-40-3HI-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 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 96 | 96 | 96 | 94 |
| 1 | 107 | 101 | 97 | 93 | 103 | 99 | 94 | 91 | 93 | 90 | 87 | 88 | 85 | 83 | 84 | 81 | 79 | 77 |
| 2 | 97 | 88 | 81 | 75 | 93 | 85 | 79 | 73 | 81 | 75 | 71 | 77 | 72 | 68 | 73 | 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 | 54 | 49 | 57 | 52 | 47 | 45 |
| 5 | 74 | 61 | 51 | 45 | 71 | 59 | 51 | 44 | 56 | 49 | 43 | 54 | 47 | 42 | 51 | 46 | 41 | 39 |
| 6 | 68 | 54 | 45 | 39 | 66 | 53 | 45 | 38 | 51 | 43 | 38 | 48 | 42 | 37 | 46 | 41 | 36 | 34 |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 34 | 46 | 39 | 33 | 44 | 37 | 33 | 42 | 36 | 32 | 30 |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 42 | 35 | 30 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |
| 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 | 35 | 28 | 24 | 33 | 28 | 23 | 22 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 24443 | 24443 | 24443 |
| 5° | 22986 | 23040 | 23078 |
| 10° | 21408 | 20668 | 20551 |
| 15° | 20342 | 19311 | 19256 |
| 20° | 19510 | 18661 | 18576 |
| 25° | 18891 | 18184 | 18076 |
| 30° | 18351 | 17749 | 17591 |
| 35° | 17949 | 17497 | 17327 |
| 40° | 17542 | 17251 | 16880 |
| 45° | 17158 | 16912 | 16350 |
| 50° | 16783 | 16550 | 15783 |
| 55° | 16301 | 16078 | 15149 |
| 60° | 15558 | 15271 | 14364 |
| 65° | 14694 | 14315 | 12996 |
| 70° | 13519 | 13033 | 11453 |
| 75° | 11464 | 11498 | 9807 |
| 80° | 8734 | 9401 | 8995 |
| 85° | 4399 | 7325 | 9860 |



TEST NUMBER: P241487

CATALOG NUMBER: FVS8M-3-LD4-40-3HI-PA187-UNV-EDC1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 368.9 | 3.3 |
| 10°-20° | 957.5 | 8.5 |
| 20°-30° | 1414.8 | 12.5 |
| 30°-40° | 1725.6 | 15.3 |
| 40°-50° | 1837.0 | 16.2 |
| 50°-60° | 1726.8 | 15.3 |
| 60°-70° | 1367.7 | 12.1 |
| 70°-80° | 850.6 | 7.5 |
| 80°-90° | 375.0 | 3.3 |
| 90°-100° | 199.4 | 1.8 |
| 100°-110° | 146.9 | 1.3 |
| 110°-120° | 114.5 | 1.0 |
| 120°-130° | 99.4 | 0.9 |
| 130°-140° | 71.6 | 0.6 |
| 140°-150° | 40.2 | 0.4 |
| 150°-160° | 15.9 | 0.1 |
| 160°-170° | 3.2 | 0.0 |
| 170°-180° | 0.1 | 0.0 |
| 0°-30° | 2741.1 | 24.2 |
| 0°-40° | 4466.7 | 39.5 |
| 0°-60° | 8030.5 | 71.0 |
| 0°-90° | 10623.8 | 93.9 |
| 90°-120° | 460.8 | 4.1 |
| 90°-150° | 672.1 | 5.9 |
| 90°-180° | 691.0 | 6.1 |
| 0°-180° | 11315.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4186 | 4186 | 4186 | 4186 | 4186 | |
| 5° | 3939 | 3967 | 3998 | 4020 | 4015 | 367 |
| 15° | 3411 | 3394 | 3362 | 3364 | 3378 | 961 |
| 25° | 3002 | 3042 | 3080 | 3087 | 3101 | 1388 |
| 35° | 2608 | 2714 | 2791 | 2817 | 2815 | 1635 |
| 45° | 2184 | 2316 | 2449 | 2446 | 2427 | 1689 |
| 55° | 1718 | 1860 | 2021 | 2006 | 1968 | 1532 |
| 65° | 1180 | 1318 | 1471 | 1455 | 1396 | 1169 |
| 75° | 605 | 739 | 882 | 877 | 801 | 643 |
| 85° | 104 | 222 | 354 | 427 | 527 | 136 |
| 90° | 2 | 102 | 218 | 312 | 433 | 5 |
| 95° | 1 | 85 | 192 | 277 | 341 | 1 |
| 105° | 1 | 72 | 160 | 214 | 212 | 1 |
| 115° | 1 | 62 | 137 | 171 | 174 | 1 |
| 125° | 1 | 52 | 126 | 175 | 187 | 1 |
| 135° | 2 | 38 | 100 | 148 | 168 | 2 |
| 145° | 3 | 20 | 68 | 105 | 121 | 2 |
| 155° | 3 | 8 | 33 | 58 | 67 | 1 |
| 165° | 4 | 2 | 8 | 16 | 21 | 1 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P241487

CATALOG NUMBER: FVS8M-3-LD4-40-3HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4185.9 | 4185.9 | 4185.9 | 4185.9 | 4185.9 | 4185.9 | 4185.9 | 4185.9 | 4185.9 | 4185.9 | 4185.9 |
| 2.5° | 4094.9 | 4102.9 | 4109.9 | 4113.9 | 4117.9 | 4128.9 | 4136.9 | 4137.9 | 4149.9 | 4158.9 | 4155.9 |
| 5° | 3938.9 | 3945.9 | 3959.9 | 3966.9 | 3961.9 | 3966.9 | 3977.9 | 3981.9 | 3984.9 | 3988.9 | 3997.9 |
| 7.5° | 3778.9 | 3774.9 | 3786.9 | 3783.9 | 3788.9 | 3785.9 | 3787.9 | 3786.9 | 3796.9 | 3798.9 | 3799.9 |
| 10° | 3642.9 | 3646.9 | 3648.9 | 3640.9 | 3639.9 | 3642.9 | 3636.9 | 3630.9 | 3627.9 | 3612.9 | 3605.9 |
| 12.5° | 3524.9 | 3524.9 | 3525.9 | 3510.9 | 3503.9 | 3498.9 | 3505.9 | 3503.9 | 3490.9 | 3477.9 | 3485.9 |
| 15° | 3410.9 | 3413.9 | 3415.9 | 3404.9 | 3395.9 | 3393.9 | 3396.9 | 3376.9 | 3378.9 | 3385.9 | 3361.9 |
| 17.5° | 3301.9 | 3313.9 | 3308.9 | 3295.9 | 3295.9 | 3295.9 | 3292.9 | 3288.9 | 3292.9 | 3285.9 | 3278.9 |
| 20° | 3197.9 | 3200.9 | 3199.9 | 3205.9 | 3205.9 | 3204.9 | 3203.9 | 3205.9 | 3213.9 | 3197.9 | 3216.9 |
| 22.5° | 3116.9 | 3119.9 | 3124.9 | 3113.9 | 3110.9 | 3106.9 | 3114.9 | 3137.9 | 3130.9 | 3142.9 | 3137.9 |
| 25° | 3001.9 | 3002.9 | 3001.9 | 3012.9 | 3030.9 | 3041.9 | 3049.9 | 3051.9 | 3057.9 | 3075.9 | 3079.9 |
| 27.5° | 2918.9 | 2919.9 | 2932.9 | 2937.9 | 2947.9 | 2959.9 | 2961.9 | 2977.9 | 2993.9 | 3000.9 | 3015.9 |
| 30° | 2801.9 | 2815.9 | 2817.9 | 2843.9 | 2870.9 | 2879.9 | 2885.9 | 2902.9 | 2914.9 | 2933.9 | 2929.9 |
| 32.5° | 2717.9 | 2725.9 | 2744.9 | 2760.9 | 2779.9 | 2786.9 | 2802.9 | 2828.9 | 2846.9 | 2865.9 | 2868.9 |
| 35° | 2607.9 | 2611.9 | 2630.9 | 2657.9 | 2698.9 | 2713.9 | 2731.9 | 2736.9 | 2763.9 | 2784.9 | 2790.9 |
| 37.5° | 2512.9 | 2519.9 | 2544.9 | 2568.9 | 2591.9 | 2612.9 | 2636.9 | 2662.9 | 2684.9 | 2701.9 | 2714.9 |
| 40° | 2399.9 | 2404.9 | 2433.9 | 2464.9 | 2508.9 | 2529.9 | 2537.9 | 2576.9 | 2600.9 | 2615.9 | 2634.9 |
| 42.5° | 2302.9 | 2307.9 | 2333.9 | 2364.9 | 2396.9 | 2426.9 | 2445.9 | 2482.9 | 2507.9 | 2525.9 | 2539.9 |
| 45° | 2183.9 | 2194.9 | 2218.9 | 2260.9 | 2304.9 | 2315.9 | 2336.9 | 2372.9 | 2406.9 | 2437.9 | 2448.9 |
| 47.5° | 2082.9 | 2086.9 | 2115.9 | 2144.9 | 2188.9 | 2212.9 | 2237.9 | 2268.9 | 2309.9 | 2330.9 | 2349.9 |
| 50° | 1959.9 | 1972.9 | 1996.9 | 2034.9 | 2074.9 | 2096.9 | 2125.9 | 2165.9 | 2198.9 | 2227.9 | 2246.9 |
| 52.5° | 1841.9 | 1848.9 | 1876.9 | 1916.9 | 1961.9 | 1987.9 | 2008.9 | 2049.9 | 2094.9 | 2120.9 | 2132.9 |
| 55° | 1718.0 | 1726.0 | 1757.0 | 1795.9 | 1838.9 | 1859.9 | 1885.9 | 1930.9 | 1975.9 | 1999.9 | 2020.9 |
| 57.5° | 1583.0 | 1600.0 | 1628.0 | 1670.0 | 1708.0 | 1729.0 | 1757.0 | 1807.9 | 1846.9 | 1872.9 | 1888.9 |
| 60° | 1450.0 | 1462.0 | 1492.0 | 1529.0 | 1583.0 | 1607.0 | 1629.0 | 1674.0 | 1707.0 | 1736.0 | 1751.0 |
| 62.5° | 1328.0 | 1334.0 | 1361.0 | 1396.0 | 1441.0 | 1463.0 | 1488.0 | 1537.0 | 1571.0 | 1596.0 | 1614.0 |
| 65° | 1180.0 | 1196.0 | 1221.0 | 1254.0 | 1297.0 | 1318.0 | 1343.0 | 1392.0 | 1429.0 | 1459.0 | 1471.0 |
| 67.5° | 1042.0 | 1046.0 | 1078.0 | 1116.0 | 1159.0 | 1179.0 | 1200.0 | 1247.0 | 1283.0 | 1307.0 | 1322.0 |
| 70° | 903.0 | 905.0 | 939.0 | 967.0 | 1014.0 | 1036.0 | 1054.0 | 1095.0 | 1137.0 | 1157.0 | 1174.0 |
| 72.5° | 751.0 | 760.0 | 795.0 | 825.0 | 863.0 | 883.0 | 910.0 | 950.0 | 984.0 | 1009.0 | 1022.0 |
| 75° | 605.0 | 613.0 | 638.0 | 678.0 | 717.0 | 739.0 | 765.0 | 803.0 | 831.0 | 862.0 | 882.0 |
| 77.5° | 464.0 | 486.0 | 499.0 | 534.0 | 578.0 | 604.0 | 622.0 | 657.0 | 685.0 | 710.0 | 726.0 |
| 80° | 335.0 | 340.0 | 367.0 | 399.0 | 441.0 | 458.0 | 478.0 | 516.0 | 544.0 | 572.0 | 590.0 |
| 82.5° | 210.0 | 220.0 | 247.0 | 277.0 | 313.0 | 330.0 | 349.0 | 385.0 | 416.0 | 438.0 | 462.0 |
| 85° | 104.0 | 114.0 | 139.0 | 167.0 | 206.0 | 222.0 | 240.0 | 273.0 | 302.0 | 326.0 | 354.0 |
| 87.5° | 35.0 | 43.0 | 65.0 | 93.0 | 126.0 | 141.0 | 157.0 | 187.0 | 213.0 | 242.0 | 265.0 |
| 90° | 2.0 | 10.0 | 30.0 | 57.0 | 87.0 | 102.0 | 117.0 | 141.0 | 168.0 | 193.0 | 218.0 |
| 92.5° | 1.0 | 8.0 | 26.0 | 51.0 | 79.0 | 92.0 | 104.0 | 129.0 | 155.0 | 178.0 | 201.0 |
| 95° | 1.0 | 7.0 | 24.0 | 47.0 | 72.0 | 85.0 | 98.0 | 123.0 | 148.0 | 171.0 | 192.0 |
| 97.5° | 1.0 | 6.0 | 22.0 | 44.0 | 68.0 | 81.0 | 93.0 | 118.0 | 141.0 | 163.0 | 183.0 |
| 100° | 1.0 | 6.0 | 21.0 | 42.0 | 65.0 | 77.0 | 89.0 | 113.0 | 135.0 | 155.0 | 174.0 |
| 102.5° | 1.0 | 6.0 | 20.0 | 40.0 | 63.0 | 74.0 | 86.0 | 108.0 | 129.0 | 148.0 | 167.0 |
| 105° | 1.0 | 5.0 | 19.0 | 39.0 | 61.0 | 72.0 | 82.0 | 104.0 | 123.0 | 142.0 | 160.0 |
| 107.5° | 1.0 | 5.0 | 18.0 | 37.0 | 58.0 | 69.0 | 80.0 | 100.0 | 119.0 | 137.0 | 153.0 |
| 110° | 1.0 | 4.0 | 17.0 | 36.0 | 56.0 | 67.0 | 77.0 | 97.0 | 115.0 | 132.0 | 146.0 |



TEST NUMBER: P241487

CATALOG NUMBER: FVS8M-3-LD4-40-3HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-----|-----|------|------|------|-------|------|------|-------|-------|-------|
| 112.5° | 1.0 | 4.0 | 16.0 | 34.0 | 54.0 | 65.0 | 75.0 | 94.0 | 112.0 | 127.0 | 141.0 |
| 115° | 1.0 | 3.0 | 15.0 | 32.0 | 52.0 | 62.0 | 72.0 | 91.0 | 108.0 | 123.0 | 137.0 |
| 117.5° | 1.0 | 3.0 | 14.0 | 31.0 | 50.0 | 60.0 | 69.0 | 88.0 | 105.0 | 121.0 | 134.0 |
| 120° | 1.0 | 3.0 | 13.0 | 29.0 | 48.0 | 57.0 | 67.0 | 85.0 | 103.0 | 118.0 | 132.0 |
| 122.5° | 1.0 | 2.0 | 12.0 | 27.0 | 45.0 | 54.0 | 64.0 | 82.0 | 99.0 | 115.0 | 130.0 |
| 125° | 1.0 | 2.0 | 11.0 | 26.0 | 43.0 | 52.0 | 61.0 | 78.0 | 96.0 | 111.0 | 126.0 |
| 127.5° | 2.0 | 2.0 | 10.0 | 24.0 | 40.0 | 49.0 | 57.0 | 75.0 | 91.0 | 106.0 | 121.0 |
| 130° | 2.0 | 2.0 | 9.0 | 21.0 | 37.0 | 46.0 | 54.0 | 70.0 | 86.0 | 100.0 | 115.0 |
| 132.5° | 2.0 | 2.0 | 8.0 | 19.0 | 34.0 | 42.0 | 50.0 | 65.0 | 80.0 | 94.0 | 108.0 |
| 135° | 2.0 | 2.0 | 6.0 | 17.0 | 30.0 | 38.0 | 45.0 | 60.0 | 74.0 | 87.0 | 100.0 |
| 137.5° | 2.0 | 2.0 | 5.0 | 14.0 | 26.0 | 33.0 | 40.0 | 54.0 | 68.0 | 80.0 | 93.0 |
| 140° | 2.0 | 2.0 | 4.0 | 12.0 | 23.0 | 29.0 | 35.0 | 48.0 | 61.0 | 73.0 | 85.0 |
| 142.5° | 3.0 | 2.0 | 4.0 | 10.0 | 19.0 | 25.0 | 30.0 | 41.0 | 53.0 | 65.0 | 76.0 |
| 145° | 3.0 | 2.0 | 3.0 | 8.0 | 16.0 | 20.0 | 25.0 | 35.0 | 46.0 | 57.0 | 68.0 |
| 147.5° | 3.0 | 3.0 | 3.0 | 6.0 | 13.0 | 17.0 | 21.0 | 30.0 | 39.0 | 49.0 | 58.0 |
| 150° | 3.0 | 3.0 | 2.0 | 5.0 | 10.0 | 13.0 | 17.0 | 24.0 | 32.0 | 41.0 | 49.0 |
| 152.5° | 3.0 | 3.0 | 2.0 | 4.0 | 8.0 | 10.0 | 13.0 | 20.0 | 26.0 | 33.0 | 41.0 |
| 155° | 3.0 | 3.0 | 3.0 | 3.0 | 6.0 | 8.0 | 10.0 | 15.0 | 21.0 | 26.0 | 33.0 |
| 157.5° | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 6.0 | 7.0 | 11.0 | 15.0 | 20.0 | 25.0 |
| 160° | 4.0 | 3.0 | 3.0 | 2.0 | 3.0 | 4.0 | 5.0 | 8.0 | 11.0 | 15.0 | 18.0 |
| 162.5° | 4.0 | 4.0 | 3.0 | 3.0 | 2.0 | 3.0 | 4.0 | 5.0 | 7.0 | 10.0 | 12.0 |
| 165° | 4.0 | 4.0 | 3.0 | 3.0 | 2.0 | 2.0 | 3.0 | 3.0 | 5.0 | 6.0 | 8.0 |
| 167.5° | 4.0 | 4.0 | 3.0 | 3.0 | 2.0 | 2.0 | 2.0 | 2.0 | 3.0 | 3.0 | 4.0 |
| 170° | 4.0 | 4.0 | 3.0 | 3.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 | 1.0 | 2.0 |
| 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: P241487

CATALOG NUMBER: FVS8M-3-LD4-40-3HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4185.9 | 4185.9 | 4185.9 | 4185.9 | 4185.9 | 4185.9 | 4185.9 | 4185.9 | 4185.9 | 4185.9 |
| 2.5° | 4161.9 | 4154.9 | 4158.9 | 4159.9 | 4162.9 | 4166.9 | 4156.9 | 4155.9 | 4158.9 | 4158.9 |
| 5° | 3998.9 | 4007.9 | 4006.9 | 4014.9 | 4019.9 | 4015.9 | 4016.9 | 4019.9 | 4023.9 | 4014.9 |
| 7.5° | 3791.9 | 3797.9 | 3808.9 | 3800.9 | 3810.9 | 3805.9 | 3820.9 | 3811.9 | 3828.9 | 3831.9 |
| 10° | 3605.9 | 3606.9 | 3619.9 | 3624.9 | 3636.9 | 3618.9 | 3613.9 | 3609.9 | 3598.9 | 3603.9 |
| 12.5° | 3469.9 | 3450.9 | 3435.9 | 3444.9 | 3459.9 | 3470.9 | 3490.9 | 3503.9 | 3509.9 | 3511.9 |
| 15° | 3352.9 | 3371.9 | 3380.9 | 3379.9 | 3363.9 | 3358.9 | 3355.9 | 3359.9 | 3370.9 | 3377.9 |
| 17.5° | 3300.9 | 3286.9 | 3273.9 | 3303.9 | 3321.9 | 3332.9 | 3333.9 | 3326.9 | 3322.9 | 3304.9 |
| 20° | 3199.9 | 3227.9 | 3254.9 | 3231.9 | 3215.9 | 3210.9 | 3205.9 | 3222.9 | 3233.9 | 3234.9 |
| 22.5° | 3157.9 | 3176.9 | 3139.9 | 3174.9 | 3192.9 | 3197.9 | 3185.9 | 3170.9 | 3159.9 | 3150.9 |
| 25° | 3087.9 | 3079.9 | 3118.9 | 3096.9 | 3086.9 | 3076.9 | 3091.9 | 3098.9 | 3096.9 | 3100.9 |
| 27.5° | 3001.9 | 3031.9 | 3003.9 | 3024.9 | 3045.9 | 3053.9 | 3029.9 | 3009.9 | 2994.9 | 2990.9 |
| 30° | 2952.9 | 2930.9 | 2980.9 | 2967.9 | 2949.9 | 2940.9 | 2937.9 | 2944.9 | 2946.9 | 2948.9 |
| 32.5° | 2873.9 | 2896.9 | 2874.9 | 2867.9 | 2887.9 | 2895.9 | 2899.9 | 2881.9 | 2876.9 | 2866.9 |
| 35° | 2799.9 | 2804.9 | 2800.9 | 2830.9 | 2816.9 | 2809.9 | 2805.9 | 2812.9 | 2816.9 | 2814.9 |
| 37.5° | 2742.9 | 2716.9 | 2756.9 | 2729.9 | 2740.9 | 2745.9 | 2750.9 | 2731.9 | 2725.9 | 2710.9 |
| 40° | 2637.9 | 2658.9 | 2638.9 | 2660.9 | 2660.9 | 2647.9 | 2626.9 | 2622.9 | 2626.9 | 2633.9 |
| 42.5° | 2551.9 | 2553.9 | 2581.9 | 2547.9 | 2539.9 | 2538.9 | 2551.9 | 2548.9 | 2533.9 | 2540.9 |
| 45° | 2463.9 | 2472.9 | 2444.9 | 2438.9 | 2445.9 | 2439.9 | 2420.9 | 2417.9 | 2425.9 | 2426.9 |
| 47.5° | 2356.9 | 2368.9 | 2339.9 | 2337.9 | 2328.9 | 2319.9 | 2330.9 | 2337.9 | 2328.9 | 2326.9 |
| 50° | 2256.9 | 2233.9 | 2241.9 | 2226.9 | 2230.9 | 2237.9 | 2214.9 | 2200.9 | 2200.9 | 2204.9 |
| 52.5° | 2137.9 | 2144.9 | 2128.9 | 2146.9 | 2131.9 | 2118.9 | 2119.9 | 2114.9 | 2113.9 | 2113.9 |
| 55° | 2019.9 | 2027.9 | 2038.9 | 2007.9 | 2005.9 | 2003.9 | 1996.9 | 1980.9 | 1969.9 | 1967.9 |
| 57.5° | 1899.9 | 1900.9 | 1903.9 | 1893.9 | 1897.9 | 1888.9 | 1858.9 | 1862.9 | 1859.9 | 1853.9 |
| 60° | 1761.9 | 1773.9 | 1756.0 | 1749.0 | 1744.0 | 1741.0 | 1738.0 | 1722.0 | 1711.0 | 1711.0 |
| 62.5° | 1619.0 | 1610.0 | 1614.0 | 1599.0 | 1605.0 | 1606.0 | 1577.0 | 1565.0 | 1552.0 | 1548.0 |
| 65° | 1476.0 | 1464.0 | 1461.0 | 1463.0 | 1455.0 | 1432.0 | 1422.0 | 1415.0 | 1400.0 | 1396.0 |
| 67.5° | 1325.0 | 1327.0 | 1321.0 | 1306.0 | 1294.0 | 1288.0 | 1269.0 | 1251.0 | 1238.0 | 1234.0 |
| 70° | 1174.0 | 1172.0 | 1175.0 | 1157.0 | 1162.0 | 1150.0 | 1126.0 | 1105.0 | 1099.0 | 1087.0 |
| 72.5° | 1027.0 | 1030.0 | 1029.0 | 1028.0 | 1018.0 | 1004.0 | 988.0 | 972.0 | 963.0 | 942.0 |
| 75° | 888.0 | 900.0 | 891.0 | 883.0 | 877.0 | 869.0 | 860.0 | 829.0 | 812.0 | 801.0 |
| 77.5° | 742.0 | 756.0 | 761.0 | 750.0 | 747.0 | 747.0 | 730.0 | 709.0 | 702.0 | 699.0 |
| 80° | 600.0 | 616.0 | 628.0 | 629.0 | 628.0 | 623.0 | 619.0 | 616.0 | 613.0 | 610.0 |
| 82.5° | 480.0 | 499.0 | 507.0 | 511.0 | 518.0 | 517.0 | 527.0 | 535.0 | 544.0 | 549.0 |
| 85° | 371.0 | 388.0 | 405.0 | 419.0 | 427.0 | 437.0 | 449.0 | 469.0 | 500.0 | 527.0 |
| 87.5° | 288.0 | 308.0 | 331.0 | 350.0 | 357.0 | 366.0 | 388.0 | 421.0 | 462.0 | 489.0 |
| 90° | 241.0 | 263.0 | 285.0 | 304.0 | 312.0 | 324.0 | 349.0 | 379.0 | 415.0 | 433.0 |
| 92.5° | 222.0 | 243.0 | 263.0 | 282.0 | 293.0 | 304.0 | 325.0 | 346.0 | 368.0 | 380.0 |
| 95° | 212.0 | 231.0 | 250.0 | 268.0 | 277.0 | 287.0 | 301.0 | 319.0 | 334.0 | 341.0 |
| 97.5° | 202.0 | 220.0 | 237.0 | 254.0 | 262.0 | 270.0 | 286.0 | 302.0 | 317.0 | 316.0 |
| 100° | 193.0 | 210.0 | 225.0 | 240.0 | 247.0 | 254.0 | 267.0 | 274.0 | 278.0 | 279.0 |
| 102.5° | 185.0 | 199.0 | 213.0 | 225.0 | 230.0 | 237.0 | 246.0 | 247.0 | 247.0 | 242.0 |
| 105° | 175.0 | 189.0 | 201.0 | 209.0 | 214.0 | 217.0 | 219.0 | 218.0 | 214.0 | 212.0 |
| 107.5° | 167.0 | 178.0 | 188.0 | 194.0 | 196.0 | 196.0 | 193.0 | 191.0 | 187.0 | 188.0 |
| 110° | 159.0 | 169.0 | 176.0 | 179.0 | 180.0 | 180.0 | 178.0 | 175.0 | 173.0 | 173.0 |



TEST NUMBER: P241487

CATALOG NUMBER: FVS8M-3-LD4-40-3HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 153.0 | 162.0 | 168.0 | 171.0 | 172.0 | 172.0 | 172.0 | 171.0 | 170.0 | 169.0 |
| 115° | 148.0 | 158.0 | 164.0 | 169.0 | 171.0 | 172.0 | 174.0 | 175.0 | 174.0 | 174.0 |
| 117.5° | 147.0 | 156.0 | 165.0 | 171.0 | 174.0 | 176.0 | 179.0 | 181.0 | 180.0 | 179.0 |
| 120° | 145.0 | 156.0 | 165.0 | 173.0 | 176.0 | 179.0 | 183.0 | 185.0 | 184.0 | 183.0 |
| 122.5° | 144.0 | 155.0 | 165.0 | 174.0 | 177.0 | 180.0 | 185.0 | 187.0 | 186.0 | 186.0 |
| 125° | 140.0 | 152.0 | 163.0 | 172.0 | 175.0 | 178.0 | 184.0 | 186.0 | 187.0 | 187.0 |
| 127.5° | 135.0 | 147.0 | 158.0 | 167.0 | 171.0 | 175.0 | 180.0 | 183.0 | 185.0 | 185.0 |
| 130° | 128.0 | 141.0 | 152.0 | 161.0 | 165.0 | 169.0 | 174.0 | 179.0 | 181.0 | 182.0 |
| 132.5° | 121.0 | 133.0 | 144.0 | 154.0 | 158.0 | 162.0 | 168.0 | 172.0 | 175.0 | 176.0 |
| 135° | 113.0 | 124.0 | 135.0 | 144.0 | 148.0 | 153.0 | 159.0 | 164.0 | 167.0 | 168.0 |
| 137.5° | 104.0 | 115.0 | 125.0 | 134.0 | 138.0 | 142.0 | 150.0 | 155.0 | 158.0 | 159.0 |
| 140° | 95.0 | 106.0 | 115.0 | 124.0 | 128.0 | 132.0 | 139.0 | 144.0 | 147.0 | 148.0 |
| 142.5° | 87.0 | 96.0 | 105.0 | 113.0 | 117.0 | 121.0 | 127.0 | 132.0 | 134.0 | 136.0 |
| 145° | 77.0 | 86.0 | 94.0 | 102.0 | 105.0 | 108.0 | 114.0 | 118.0 | 120.0 | 121.0 |
| 147.5° | 68.0 | 76.0 | 84.0 | 90.0 | 93.0 | 96.0 | 101.0 | 104.0 | 107.0 | 107.0 |
| 150° | 58.0 | 66.0 | 73.0 | 79.0 | 82.0 | 84.0 | 88.0 | 91.0 | 92.0 | 93.0 |
| 152.5° | 48.0 | 55.0 | 62.0 | 67.0 | 69.0 | 72.0 | 75.0 | 78.0 | 79.0 | 80.0 |
| 155° | 38.0 | 45.0 | 51.0 | 56.0 | 58.0 | 60.0 | 62.0 | 65.0 | 66.0 | 67.0 |
| 157.5° | 30.0 | 35.0 | 40.0 | 45.0 | 46.0 | 48.0 | 50.0 | 52.0 | 53.0 | 53.0 |
| 160° | 22.0 | 26.0 | 30.0 | 34.0 | 36.0 | 37.0 | 40.0 | 40.0 | 42.0 | 42.0 |
| 162.5° | 15.0 | 18.0 | 21.0 | 24.0 | 25.0 | 27.0 | 29.0 | 30.0 | 31.0 | 31.0 |
| 165° | 10.0 | 11.0 | 14.0 | 16.0 | 16.0 | 17.0 | 20.0 | 20.0 | 20.0 | 21.0 |
| 167.5° | 5.0 | 6.0 | 7.0 | 9.0 | 9.0 | 10.0 | 11.0 | 12.0 | 12.0 | 12.0 |
| 170° | 2.0 | 2.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 5.0 | 5.0 | 5.0 |
| 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)