

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: P241549

Luminaire Tested: **FVS8M-2-LD4-30-3LO-O-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-410-14)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS8M-2-LD4-30-3LO-O-UNV-EDC1
Description: FAILSAFE FVS8M LED FIXTURE
2FT LENGTH, 3-MODULE LED WITH OPAL LENS
Light Source: (126) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

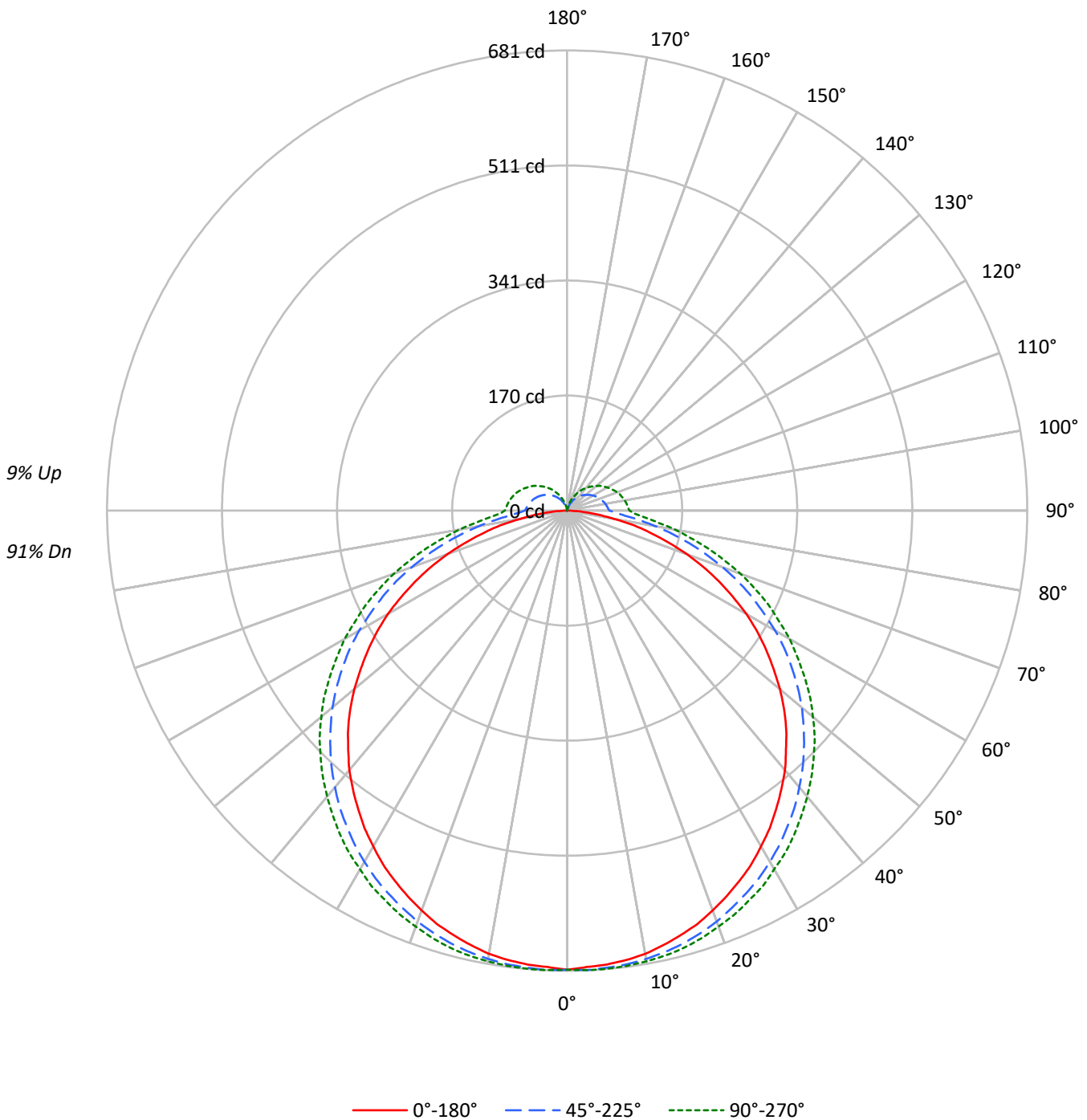
Lumens per Lamp: N/A
Luminaire Lumens: 2434.0 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.34 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 1.85' x H: 0.15')
CIE Type: Direct

Input Watts (W): 36
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: P241549

CATALOG NUMBER: FVS8M-2-LD4-30-3LO-O-UNV-EDC1

Luminous Intensity Polar Plot





TEST NUMBER: P241549

CATALOG NUMBER: FVS8M-2-LD4-30-3LO-O-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 | 113 | 113 | 113 | 113 | 106 | 106 | 106 | | 99 | 99 | 99 | | 93 | 93 | 93 | 91 |
| 1 | 105 | 100 | 96 | 91 | 102 | 97 | 93 | 89 | 91 | 88 | 84 | | 85 | 83 | 80 | | 80 | 78 | 76 | 73 |
| 2 | 95 | 87 | 79 | 73 | 92 | 84 | 77 | 72 | 79 | 73 | 69 | | 74 | 70 | 66 | | 70 | 66 | 63 | 60 |
| 3 | 87 | 76 | 67 | 60 | 83 | 73 | 65 | 59 | 69 | 62 | 57 | | 65 | 59 | 55 | | 61 | 57 | 53 | 50 |
| 4 | 79 | 67 | 58 | 51 | 76 | 65 | 56 | 50 | 61 | 54 | 48 | | 57 | 51 | 46 | | 54 | 49 | 45 | 42 |
| 5 | 72 | 59 | 50 | 43 | 70 | 58 | 49 | 43 | 54 | 47 | 41 | | 51 | 45 | 40 | | 49 | 43 | 39 | 36 |
| 6 | 67 | 53 | 44 | 37 | 64 | 52 | 43 | 37 | 49 | 41 | 36 | | 46 | 40 | 35 | | 44 | 38 | 34 | 31 |
| 7 | 62 | 48 | 39 | 33 | 59 | 47 | 38 | 32 | 44 | 37 | 32 | | 42 | 36 | 31 | | 40 | 34 | 30 | 28 |
| 8 | 57 | 44 | 35 | 29 | 55 | 43 | 34 | 29 | 41 | 33 | 28 | | 39 | 32 | 27 | | 37 | 31 | 27 | 25 |
| 9 | 54 | 40 | 32 | 26 | 52 | 39 | 31 | 26 | 37 | 30 | 25 | | 35 | 29 | 25 | | 34 | 28 | 24 | 22 |
| 10 | 50 | 37 | 29 | 24 | 48 | 36 | 28 | 23 | 34 | 27 | 23 | | 33 | 27 | 22 | | 31 | 26 | 22 | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6108 | 6108 | 6108 |
| 5° | 6043 | 6013 | 6023 |
| 10° | 5998 | 5924 | 5944 |
| 15° | 5929 | 5836 | 5877 |
| 20° | 5856 | 5740 | 5791 |
| 25° | 5780 | 5639 | 5712 |
| 30° | 5699 | 5540 | 5628 |
| 35° | 5608 | 5430 | 5549 |
| 40° | 5520 | 5313 | 5451 |
| 45° | 5405 | 5185 | 5351 |
| 50° | 5256 | 5046 | 5233 |
| 55° | 5065 | 4865 | 5078 |
| 60° | 4843 | 4654 | 4916 |
| 65° | 4506 | 4378 | 4703 |
| 70° | 4072 | 4041 | 4429 |
| 75° | 3426 | 3607 | 4054 |
| 80° | 2552 | 3081 | 3672 |
| 85° | 1352 | 2557 | 3306 |



TEST NUMBER: P241549

CATALOG NUMBER: FVS8M-2-LD4-30-3LO-O-UNV-EDC1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 64.6 | 2.7 |
| 10°-20° | 186.8 | 7.7 |
| 20°-30° | 287.5 | 11.8 |
| 30°-40° | 354.5 | 14.6 |
| 40°-50° | 379.5 | 15.6 |
| 50°-60° | 358.5 | 14.7 |
| 60°-70° | 292.3 | 12.0 |
| 70°-80° | 191.6 | 7.9 |
| 80°-90° | 91.0 | 3.7 |
| 90°-100° | 58.4 | 2.4 |
| 100°-110° | 51.8 | 2.1 |
| 110°-120° | 42.9 | 1.8 |
| 120°-130° | 32.7 | 1.3 |
| 130°-140° | 22.3 | 0.9 |
| 140°-150° | 12.9 | 0.5 |
| 150°-160° | 5.6 | 0.2 |
| 160°-170° | 1.3 | 0.1 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 538.9 | 22.1 |
| 0°-40° | 893.4 | 36.7 |
| 0°-60° | 1631.4 | 67.0 |
| 0°-90° | 2206.2 | 90.6 |
| 90°-120° | 153.1 | 6.3 |
| 90°-150° | 220.9 | 9.1 |
| 90°-180° | 228.0 | 9.4 |
| 0°-180° | 2434.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 680 | 680 | 680 | 680 | 680 | |
| 5° | 674 | 676 | 679 | 681 | 681 | 64 |
| 15° | 650 | 655 | 663 | 668 | 670 | 184 |
| 25° | 604 | 613 | 626 | 634 | 637 | 279 |
| 35° | 539 | 553 | 569 | 582 | 586 | 338 |
| 45° | 459 | 474 | 496 | 511 | 516 | 353 |
| 55° | 360 | 380 | 406 | 423 | 428 | 321 |
| 65° | 248 | 271 | 301 | 321 | 328 | 245 |
| 75° | 128 | 155 | 187 | 209 | 215 | 136 |
| 85° | 25 | 53 | 86 | 108 | 115 | 30 |
| 90° | 0 | 30 | 63 | 85 | 92 | 1 |
| 95° | 0 | 27 | 60 | 82 | 89 | 0 |
| 105° | 0 | 24 | 54 | 76 | 83 | 0 |
| 115° | 0 | 20 | 48 | 67 | 74 | 0 |
| 125° | 0 | 16 | 41 | 57 | 63 | 0 |
| 135° | 1 | 12 | 32 | 46 | 50 | 0 |
| 145° | 1 | 8 | 23 | 33 | 37 | 0 |
| 155° | 1 | 3 | 13 | 20 | 22 | 0 |
| 165° | 1 | 1 | 4 | 8 | 9 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P241549

CATALOG NUMBER: FVS8M-2-LD4-30-3LO-O-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 679.5 | 679.5 | 679.5 | 679.5 | 679.5 | 679.5 | 679.5 | 679.5 | 679.5 | 679.5 | 679.5 |
| 2.5° | 676.1 | 676.1 | 676.6 | 677.2 | 677.2 | 677.8 | 677.8 | 678.4 | 679.5 | 680.1 | 680.7 |
| 5° | 674.3 | 674.3 | 674.9 | 675.5 | 676.1 | 676.1 | 676.6 | 677.2 | 677.8 | 678.4 | 679.0 |
| 7.5° | 670.8 | 670.8 | 671.4 | 672.0 | 672.6 | 673.2 | 673.2 | 673.7 | 674.9 | 676.1 | 677.2 |
| 10° | 666.2 | 665.6 | 666.2 | 666.8 | 667.4 | 667.9 | 669.1 | 670.3 | 671.4 | 673.2 | 673.7 |
| 12.5° | 658.7 | 659.2 | 659.2 | 660.4 | 661.6 | 662.7 | 662.7 | 664.5 | 666.2 | 667.9 | 669.1 |
| 15° | 650.5 | 650.5 | 651.1 | 652.9 | 654.0 | 655.2 | 655.8 | 658.1 | 659.8 | 661.6 | 663.3 |
| 17.5° | 641.3 | 641.3 | 642.4 | 643.6 | 645.3 | 646.5 | 647.6 | 649.4 | 651.7 | 654.0 | 655.8 |
| 20° | 629.7 | 630.3 | 631.4 | 633.2 | 635.5 | 636.6 | 637.2 | 640.1 | 643.0 | 644.7 | 647.1 |
| 22.5° | 617.5 | 617.5 | 619.2 | 621.6 | 623.9 | 625.0 | 626.2 | 629.1 | 632.0 | 634.3 | 636.6 |
| 25° | 604.2 | 604.7 | 606.5 | 608.8 | 611.1 | 612.9 | 614.0 | 618.1 | 620.4 | 622.7 | 625.6 |
| 27.5° | 590.2 | 590.2 | 592.6 | 594.9 | 597.8 | 598.9 | 601.3 | 604.2 | 607.6 | 610.5 | 614.0 |
| 30° | 574.0 | 574.6 | 577.5 | 580.4 | 582.7 | 585.6 | 586.8 | 590.2 | 593.7 | 596.6 | 600.1 |
| 32.5° | 557.8 | 557.8 | 560.1 | 564.2 | 566.5 | 568.8 | 570.5 | 574.6 | 578.6 | 582.1 | 585.6 |
| 35° | 539.2 | 541.0 | 543.3 | 546.8 | 550.2 | 552.6 | 554.3 | 558.4 | 563.0 | 565.9 | 569.4 |
| 37.5° | 520.7 | 521.8 | 524.7 | 528.2 | 531.7 | 534.0 | 536.3 | 541.0 | 545.0 | 549.1 | 553.1 |
| 40° | 501.5 | 501.5 | 504.4 | 509.1 | 513.1 | 514.9 | 517.2 | 521.8 | 525.9 | 530.5 | 534.6 |
| 42.5° | 479.5 | 480.7 | 484.1 | 488.2 | 492.8 | 495.2 | 497.5 | 502.1 | 506.8 | 511.4 | 516.0 |
| 45° | 458.6 | 459.2 | 462.7 | 466.7 | 471.4 | 474.3 | 477.2 | 481.2 | 487.0 | 491.1 | 495.7 |
| 47.5° | 435.4 | 436.6 | 440.1 | 444.7 | 449.4 | 452.8 | 454.6 | 459.8 | 465.0 | 470.2 | 474.9 |
| 50° | 411.1 | 412.2 | 416.3 | 422.1 | 426.7 | 428.5 | 432.0 | 438.3 | 443.0 | 448.8 | 453.4 |
| 52.5° | 385.0 | 387.9 | 393.1 | 397.2 | 402.4 | 405.3 | 408.2 | 413.4 | 420.4 | 425.0 | 430.2 |
| 55° | 359.5 | 361.2 | 365.9 | 371.1 | 377.5 | 380.4 | 383.3 | 389.1 | 396.0 | 401.2 | 405.9 |
| 57.5° | 334.0 | 335.7 | 340.3 | 345.0 | 351.9 | 354.8 | 358.3 | 364.7 | 370.5 | 375.1 | 381.5 |
| 60° | 306.1 | 307.3 | 312.5 | 318.9 | 324.7 | 328.8 | 331.1 | 338.0 | 343.8 | 349.6 | 355.4 |
| 62.5° | 276.6 | 280.0 | 284.1 | 291.1 | 296.9 | 302.1 | 304.4 | 310.2 | 317.2 | 323.0 | 327.6 |
| 65° | 247.6 | 250.5 | 255.1 | 262.7 | 268.5 | 270.8 | 275.4 | 281.8 | 288.7 | 295.7 | 300.9 |
| 67.5° | 218.0 | 222.1 | 225.0 | 233.1 | 241.2 | 243.5 | 248.2 | 253.4 | 261.5 | 267.9 | 273.7 |
| 70° | 188.4 | 190.8 | 196.0 | 203.5 | 209.9 | 213.9 | 217.4 | 225.0 | 231.9 | 239.5 | 244.7 |
| 72.5° | 157.7 | 161.2 | 167.0 | 173.4 | 182.1 | 185.0 | 189.0 | 195.4 | 204.1 | 210.5 | 215.7 |
| 75° | 127.6 | 130.5 | 135.7 | 144.4 | 151.9 | 155.4 | 159.4 | 167.0 | 174.5 | 181.5 | 187.3 |
| 77.5° | 100.9 | 102.0 | 107.8 | 115.4 | 122.9 | 127.0 | 131.0 | 138.6 | 146.1 | 154.2 | 159.4 |
| 80° | 71.3 | 74.8 | 80.0 | 87.6 | 95.7 | 99.7 | 103.8 | 110.7 | 118.3 | 125.2 | 132.2 |
| 82.5° | 45.2 | 48.7 | 54.5 | 62.0 | 70.7 | 73.6 | 78.3 | 87.0 | 93.3 | 99.7 | 107.3 |
| 85° | 24.9 | 27.3 | 32.5 | 40.6 | 48.7 | 52.8 | 56.8 | 64.9 | 71.9 | 78.9 | 85.8 |
| 87.5° | 8.7 | 11.6 | 17.4 | 24.9 | 33.0 | 37.1 | 41.2 | 49.3 | 56.2 | 63.8 | 70.7 |
| 90° | 0.0 | 4.1 | 9.9 | 17.4 | 25.5 | 29.6 | 33.6 | 41.2 | 49.3 | 56.2 | 62.6 |
| 92.5° | 0.0 | 2.9 | 8.7 | 15.7 | 23.8 | 27.8 | 31.9 | 40.0 | 47.5 | 54.5 | 60.9 |
| 95° | 0.0 | 2.3 | 8.1 | 15.1 | 23.2 | 27.3 | 31.3 | 38.8 | 46.4 | 53.3 | 59.7 |
| 97.5° | 0.0 | 2.3 | 7.5 | 14.5 | 22.6 | 26.1 | 30.2 | 38.3 | 45.2 | 52.2 | 58.6 |
| 100° | 0.0 | 2.3 | 7.5 | 13.9 | 22.0 | 25.5 | 29.6 | 37.1 | 44.1 | 51.0 | 57.4 |
| 102.5° | 0.0 | 2.3 | 7.0 | 13.9 | 20.9 | 24.9 | 28.4 | 35.9 | 42.9 | 49.9 | 56.2 |
| 105° | 0.0 | 1.7 | 6.4 | 13.3 | 20.3 | 23.8 | 27.8 | 34.8 | 41.7 | 48.7 | 54.5 |
| 107.5° | 0.0 | 1.7 | 6.4 | 12.8 | 19.7 | 23.2 | 26.7 | 33.6 | 40.6 | 47.0 | 53.3 |
| 110° | 0.0 | 1.7 | 5.8 | 12.2 | 18.6 | 22.0 | 26.1 | 33.0 | 39.4 | 45.8 | 51.6 |



TEST NUMBER: P241549

CATALOG NUMBER: FVS8M-2-LD4-30-3LO-O-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-----|-----|-----|------|------|-------|------|------|------|------|------|
| 112.5° | 0.0 | 1.7 | 5.8 | 11.6 | 18.0 | 21.5 | 24.9 | 31.3 | 38.3 | 44.1 | 49.9 |
| 115° | 0.0 | 1.2 | 5.2 | 11.0 | 16.8 | 20.3 | 23.8 | 30.2 | 36.5 | 42.3 | 48.1 |
| 117.5° | 0.0 | 1.2 | 4.6 | 10.4 | 16.2 | 19.1 | 22.6 | 29.0 | 35.4 | 41.2 | 46.4 |
| 120° | 0.0 | 1.2 | 4.6 | 9.9 | 15.7 | 18.6 | 21.5 | 27.8 | 33.6 | 39.4 | 44.6 |
| 122.5° | 0.0 | 0.6 | 4.1 | 9.3 | 14.5 | 17.4 | 20.3 | 26.1 | 31.9 | 37.7 | 42.3 |
| 125° | 0.0 | 0.6 | 4.1 | 8.1 | 13.9 | 16.2 | 19.1 | 24.9 | 30.2 | 35.4 | 40.6 |
| 127.5° | 0.0 | 0.6 | 3.5 | 7.5 | 12.8 | 15.7 | 18.0 | 23.8 | 29.0 | 33.6 | 38.3 |
| 130° | 0.0 | 0.6 | 2.9 | 7.0 | 11.6 | 14.5 | 16.8 | 22.0 | 27.3 | 31.9 | 35.9 |
| 132.5° | 0.0 | 0.6 | 2.9 | 6.4 | 11.0 | 13.3 | 15.7 | 20.3 | 25.5 | 29.6 | 34.2 |
| 135° | 0.6 | 0.6 | 2.3 | 5.8 | 9.9 | 12.2 | 14.5 | 19.1 | 23.8 | 27.8 | 31.9 |
| 137.5° | 0.0 | 0.6 | 1.7 | 5.2 | 9.3 | 11.0 | 13.3 | 17.4 | 22.0 | 25.5 | 29.6 |
| 140° | 0.0 | 0.6 | 1.7 | 4.6 | 8.1 | 9.9 | 12.2 | 16.2 | 19.7 | 23.8 | 27.3 |
| 142.5° | 0.6 | 0.6 | 1.2 | 4.1 | 7.0 | 8.7 | 10.4 | 14.5 | 18.0 | 21.5 | 24.9 |
| 145° | 0.6 | 0.6 | 0.6 | 2.9 | 5.8 | 7.5 | 9.3 | 12.8 | 16.2 | 19.7 | 22.6 |
| 147.5° | 0.6 | 0.6 | 0.6 | 2.3 | 5.2 | 6.4 | 8.1 | 11.0 | 14.5 | 17.4 | 20.3 |
| 150° | 0.6 | 0.6 | 0.6 | 1.7 | 4.1 | 5.2 | 6.4 | 9.3 | 12.2 | 15.1 | 18.0 |
| 152.5° | 0.6 | 0.6 | 0.6 | 1.2 | 2.9 | 4.1 | 5.2 | 7.5 | 10.4 | 12.8 | 15.1 |
| 155° | 0.6 | 0.6 | 0.6 | 1.2 | 2.3 | 2.9 | 4.1 | 6.4 | 8.1 | 10.4 | 12.8 |
| 157.5° | 0.6 | 0.6 | 0.6 | 0.6 | 1.7 | 2.3 | 2.9 | 4.6 | 6.4 | 8.1 | 9.9 |
| 160° | 0.6 | 0.6 | 0.6 | 0.6 | 1.2 | 1.7 | 1.7 | 3.5 | 4.6 | 6.4 | 7.5 |
| 162.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.2 | 2.3 | 2.9 | 4.1 | 5.2 |
| 165° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.2 | 1.7 | 2.9 | 3.5 |
| 167.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.2 | 1.2 | 1.7 |
| 170° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 |
| 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: P241549

CATALOG NUMBER: FVS8M-2-LD4-30-3LO-O-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 679.5 | 679.5 | 679.5 | 679.5 | 679.5 | 679.5 | 679.5 | 679.5 | 679.5 | 679.5 |
| 2.5° | 680.7 | 681.3 | 681.3 | 681.3 | 681.3 | 681.3 | 681.3 | 681.3 | 681.3 | 680.7 |
| 5° | 679.5 | 680.1 | 680.1 | 680.7 | 680.7 | 680.7 | 680.7 | 680.7 | 680.7 | 680.7 |
| 7.5° | 677.8 | 678.4 | 679.0 | 679.5 | 679.5 | 679.5 | 679.5 | 679.5 | 679.5 | 679.5 |
| 10° | 674.9 | 675.5 | 676.6 | 676.6 | 677.2 | 677.2 | 677.2 | 677.2 | 677.8 | 677.2 |
| 12.5° | 670.3 | 671.4 | 672.6 | 673.2 | 673.2 | 673.7 | 673.7 | 673.7 | 674.3 | 674.3 |
| 15° | 664.5 | 665.6 | 666.8 | 667.4 | 667.9 | 668.5 | 668.5 | 669.1 | 669.1 | 669.7 |
| 17.5° | 657.5 | 659.2 | 660.4 | 661.0 | 661.6 | 662.1 | 662.1 | 662.7 | 663.3 | 663.3 |
| 20° | 649.4 | 650.5 | 652.3 | 652.9 | 653.4 | 654.0 | 655.2 | 655.2 | 655.8 | 655.2 |
| 22.5° | 638.9 | 641.3 | 643.0 | 644.2 | 644.7 | 644.7 | 645.9 | 647.1 | 647.1 | 647.1 |
| 25° | 627.9 | 630.3 | 632.6 | 633.7 | 634.3 | 634.3 | 636.0 | 636.0 | 636.6 | 636.6 |
| 27.5° | 615.8 | 618.7 | 620.4 | 622.1 | 622.7 | 623.3 | 623.9 | 625.0 | 625.6 | 626.8 |
| 30° | 602.4 | 604.7 | 607.1 | 609.4 | 610.0 | 610.5 | 611.7 | 612.3 | 613.4 | 612.9 |
| 32.5° | 588.5 | 590.8 | 593.7 | 596.0 | 596.6 | 596.6 | 598.4 | 598.4 | 599.5 | 600.7 |
| 35° | 572.9 | 575.7 | 578.1 | 580.4 | 581.5 | 581.5 | 583.9 | 584.4 | 585.6 | 585.6 |
| 37.5° | 556.0 | 560.1 | 561.8 | 564.7 | 565.9 | 566.5 | 568.2 | 568.2 | 569.4 | 569.4 |
| 40° | 538.6 | 541.5 | 545.0 | 546.8 | 547.9 | 549.7 | 550.2 | 552.6 | 552.6 | 552.6 |
| 42.5° | 520.1 | 522.4 | 527.0 | 528.8 | 530.5 | 530.5 | 532.3 | 533.4 | 534.6 | 535.2 |
| 45° | 500.4 | 503.3 | 506.8 | 509.7 | 510.8 | 512.0 | 513.1 | 514.3 | 516.0 | 516.0 |
| 47.5° | 478.9 | 483.6 | 485.9 | 489.4 | 490.5 | 491.7 | 493.4 | 494.6 | 495.7 | 496.9 |
| 50° | 456.9 | 461.5 | 465.6 | 467.9 | 468.5 | 470.2 | 472.0 | 473.1 | 474.3 | 474.9 |
| 52.5° | 434.3 | 438.3 | 441.8 | 445.3 | 446.5 | 449.4 | 449.4 | 451.1 | 452.3 | 453.4 |
| 55° | 411.1 | 414.6 | 419.2 | 421.5 | 423.3 | 423.8 | 427.3 | 428.5 | 428.5 | 428.5 |
| 57.5° | 385.6 | 390.8 | 393.7 | 398.3 | 398.9 | 400.1 | 401.8 | 404.1 | 404.1 | 404.1 |
| 60° | 360.1 | 364.7 | 368.8 | 371.7 | 374.0 | 374.0 | 376.9 | 379.2 | 379.8 | 380.4 |
| 62.5° | 334.0 | 338.0 | 342.7 | 345.6 | 347.9 | 349.0 | 350.8 | 353.1 | 354.3 | 353.1 |
| 65° | 306.1 | 310.8 | 315.4 | 318.9 | 320.6 | 321.8 | 324.1 | 325.9 | 327.6 | 328.2 |
| 67.5° | 278.9 | 282.9 | 288.2 | 292.2 | 293.4 | 295.7 | 297.4 | 298.6 | 299.8 | 299.8 |
| 70° | 250.5 | 255.7 | 260.3 | 263.8 | 264.4 | 266.7 | 269.6 | 271.4 | 270.8 | 273.1 |
| 72.5° | 222.1 | 227.3 | 231.3 | 236.0 | 236.6 | 238.3 | 240.6 | 242.4 | 242.9 | 243.5 |
| 75° | 193.1 | 199.5 | 202.9 | 207.0 | 208.7 | 209.9 | 212.8 | 215.1 | 215.1 | 215.1 |
| 77.5° | 165.2 | 170.5 | 174.5 | 178.0 | 180.3 | 182.1 | 185.0 | 186.7 | 186.7 | 187.3 |
| 80° | 136.8 | 143.8 | 147.3 | 151.3 | 154.2 | 155.4 | 157.7 | 160.0 | 160.6 | 161.8 |
| 82.5° | 112.5 | 118.9 | 122.9 | 127.0 | 129.3 | 131.6 | 132.8 | 135.1 | 135.7 | 135.7 |
| 85° | 91.6 | 96.8 | 101.5 | 105.5 | 107.8 | 109.6 | 111.9 | 113.1 | 114.8 | 114.8 |
| 87.5° | 76.5 | 81.2 | 86.4 | 90.5 | 92.2 | 93.9 | 96.2 | 98.0 | 99.7 | 99.1 |
| 90° | 69.0 | 74.2 | 78.9 | 82.9 | 85.2 | 87.0 | 88.7 | 91.0 | 92.2 | 92.2 |
| 92.5° | 66.7 | 71.9 | 77.1 | 81.2 | 82.9 | 84.1 | 87.0 | 88.7 | 89.9 | 90.5 |
| 95° | 65.5 | 71.3 | 76.0 | 80.0 | 81.8 | 83.5 | 85.8 | 87.6 | 88.7 | 89.3 |
| 97.5° | 64.9 | 70.2 | 74.8 | 78.9 | 80.6 | 82.3 | 84.7 | 86.4 | 87.6 | 88.1 |
| 100° | 63.2 | 68.4 | 73.6 | 77.7 | 78.9 | 80.6 | 83.5 | 85.2 | 86.4 | 86.4 |
| 102.5° | 62.0 | 67.3 | 71.9 | 76.0 | 77.7 | 78.9 | 81.8 | 83.5 | 84.7 | 84.7 |
| 105° | 60.3 | 65.5 | 70.2 | 74.2 | 76.0 | 77.1 | 80.0 | 81.8 | 82.3 | 82.9 |
| 107.5° | 58.6 | 63.8 | 68.4 | 71.9 | 73.6 | 75.4 | 77.7 | 79.4 | 80.6 | 81.2 |
| 110° | 56.8 | 62.0 | 66.1 | 70.2 | 71.9 | 73.1 | 76.0 | 77.1 | 78.3 | 78.9 |



TEST NUMBER: P241549

CATALOG NUMBER: FVS8M-2-LD4-30-3LO-O-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|------|------|------|------|-------|------|------|------|------|------|
| 112.5° | 55.1 | 59.7 | 64.4 | 67.8 | 69.6 | 70.7 | 73.1 | 75.4 | 76.0 | 76.5 |
| 115° | 53.3 | 58.0 | 62.0 | 65.5 | 67.3 | 68.4 | 70.7 | 72.5 | 73.6 | 73.6 |
| 117.5° | 51.0 | 55.7 | 59.7 | 63.2 | 64.9 | 66.1 | 68.4 | 70.2 | 70.7 | 71.3 |
| 120° | 49.3 | 53.9 | 57.4 | 60.9 | 62.6 | 63.8 | 65.5 | 67.3 | 68.4 | 68.4 |
| 122.5° | 47.0 | 51.6 | 55.1 | 58.6 | 59.7 | 60.9 | 63.2 | 64.9 | 65.5 | 65.5 |
| 125° | 44.6 | 49.3 | 52.8 | 55.7 | 57.4 | 58.6 | 60.3 | 62.0 | 62.6 | 63.2 |
| 127.5° | 42.9 | 46.4 | 50.4 | 53.3 | 54.5 | 55.7 | 57.4 | 59.1 | 59.7 | 60.3 |
| 130° | 40.6 | 44.1 | 47.5 | 50.4 | 51.6 | 52.8 | 54.5 | 55.7 | 56.8 | 56.8 |
| 132.5° | 37.7 | 41.7 | 44.6 | 47.5 | 48.7 | 49.3 | 51.6 | 52.8 | 53.3 | 53.3 |
| 135° | 35.4 | 38.8 | 41.7 | 44.6 | 45.8 | 46.4 | 48.1 | 49.3 | 50.4 | 50.4 |
| 137.5° | 33.0 | 35.9 | 38.8 | 41.7 | 42.3 | 43.5 | 45.2 | 46.4 | 47.0 | 47.0 |
| 140° | 30.7 | 33.6 | 35.9 | 38.3 | 39.4 | 40.0 | 41.7 | 42.9 | 43.5 | 43.5 |
| 142.5° | 27.8 | 30.7 | 33.0 | 35.4 | 36.5 | 37.1 | 38.3 | 39.4 | 40.0 | 40.6 |
| 145° | 25.5 | 27.8 | 30.2 | 32.5 | 33.0 | 33.6 | 35.4 | 35.9 | 36.5 | 37.1 |
| 147.5° | 22.6 | 24.9 | 27.3 | 29.0 | 29.6 | 30.7 | 31.9 | 32.5 | 33.0 | 33.0 |
| 150° | 20.3 | 22.0 | 24.4 | 26.1 | 26.7 | 27.3 | 28.4 | 29.0 | 29.6 | 29.6 |
| 152.5° | 17.4 | 19.7 | 21.5 | 22.6 | 23.2 | 23.8 | 24.9 | 25.5 | 26.1 | 26.1 |
| 155° | 15.1 | 16.8 | 18.0 | 19.7 | 20.3 | 20.9 | 21.5 | 22.0 | 22.0 | 22.0 |
| 157.5° | 12.2 | 13.9 | 15.1 | 16.2 | 16.8 | 17.4 | 18.0 | 18.6 | 18.6 | 19.1 |
| 160° | 9.3 | 11.0 | 12.2 | 13.3 | 13.3 | 13.9 | 14.5 | 15.1 | 15.1 | 15.1 |
| 162.5° | 7.0 | 8.1 | 9.3 | 9.9 | 10.4 | 10.4 | 11.6 | 11.6 | 11.6 | 11.6 |
| 165° | 4.1 | 5.2 | 5.8 | 7.0 | 7.5 | 7.5 | 8.1 | 8.1 | 8.1 | 8.7 |
| 167.5° | 2.3 | 2.9 | 3.5 | 4.1 | 4.6 | 4.6 | 5.2 | 5.2 | 5.2 | 5.2 |
| 170° | 0.6 | 1.2 | 1.2 | 1.7 | 1.7 | 1.7 | 2.3 | 2.3 | 2.3 | 2.3 |
| 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)