

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: P231886

Luminaire Tested: **FVS4M-2-LD4-40-1LO-PFS125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-121-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS4M-2-LD4-40-1LO-PFS125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
2FT LENGTH, 1-MODULE LED WITH PFS125 LENS
Light Source: (42) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

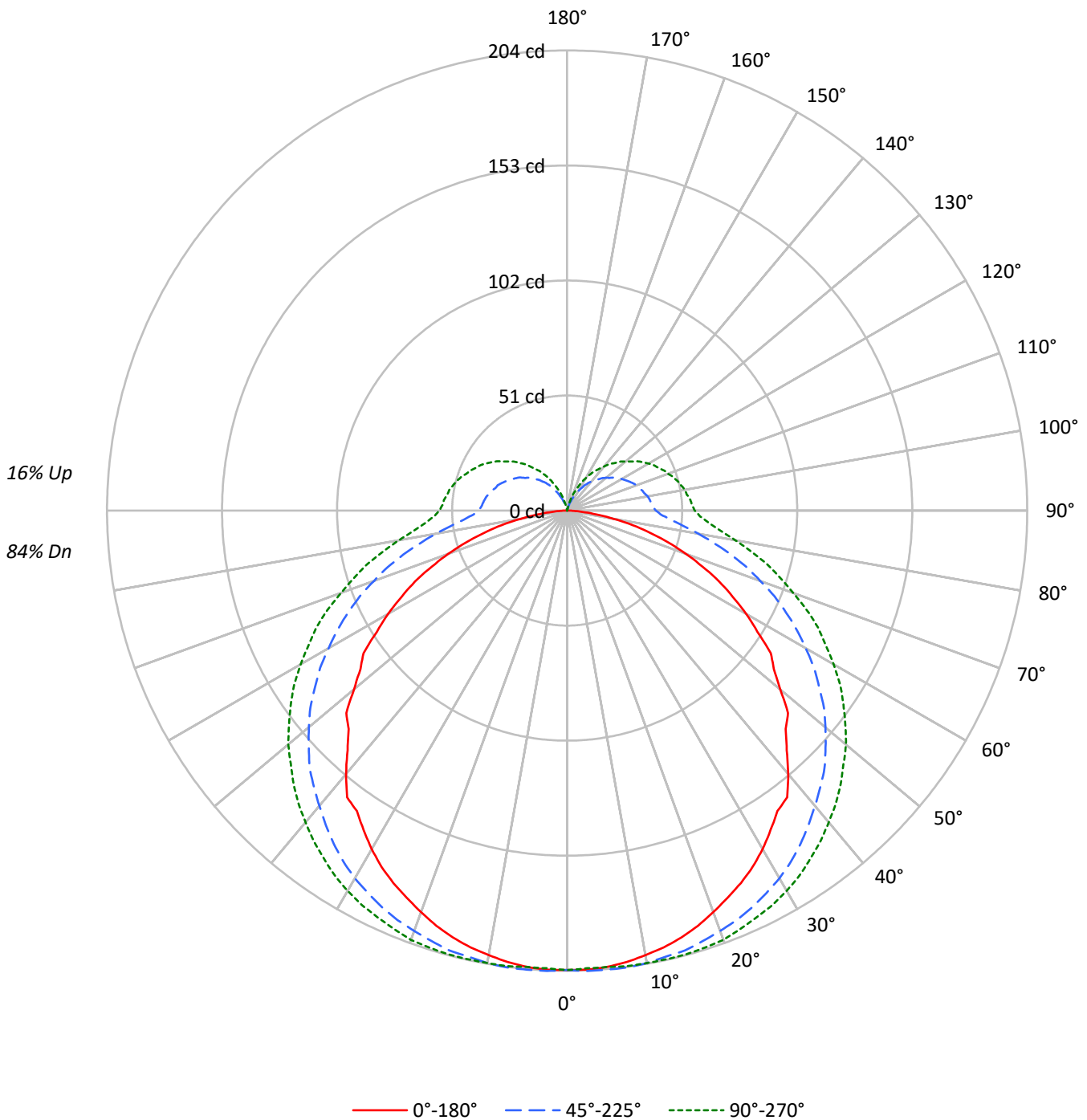
Lumens per Lamp: N/A
Luminaire Lumens: 882.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.42 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 1.92' x H: 0.19')
CIE Type: Semi-Direct

Input Watts (W): 12.3
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: P231886

CATALOG NUMBER: FVS4M-2-LD4-40-1LO-PFS125-UNV-EDC1

Luminous Intensity Polar Plot





TEST NUMBER: P231886

CATALOG NUMBER: FVS4M-2-LD4-40-1LO-PFS125-UNV-EDC1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|----|--|--|--|--|--|--|--|--|----|---|
| RF | 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 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 115 | 115 | 115 | 115 | 111 | 111 | 111 | 111 | 102 | 102 | 102 | 95 | 95 | 95 | 87 | 87 | 87 | 84 | | | | | | | | | | | | | | | | | | | | |
| 1 | 103 | 98 | 93 | 88 | 99 | 94 | 89 | 85 | 86 | 83 | 80 | 80 | 77 | 74 | 74 | 71 | 69 | 66 | | | | | | | | | | | | | | | | | | | | |
| 2 | 93 | 84 | 76 | 70 | 89 | 81 | 74 | 68 | 74 | 69 | 64 | 69 | 64 | 60 | 63 | 60 | 56 | 53 | | | | | | | | | | | | | | | | | | | | |
| 3 | 84 | 73 | 64 | 57 | 80 | 70 | 62 | 56 | 65 | 58 | 53 | 60 | 54 | 50 | 55 | 51 | 47 | 44 | | | | | | | | | | | | | | | | | | | | |
| 4 | 77 | 64 | 55 | 48 | 73 | 62 | 53 | 47 | 57 | 50 | 44 | 53 | 47 | 42 | 49 | 44 | 40 | 37 | | | | | | | | | | | | | | | | | | | | |
| 5 | 70 | 57 | 47 | 41 | 67 | 55 | 46 | 40 | 51 | 43 | 38 | 47 | 41 | 36 | 44 | 38 | 34 | 31 | | | | | | | | | | | | | | | | | | | | |
| 6 | 65 | 51 | 42 | 35 | 62 | 49 | 40 | 34 | 46 | 38 | 33 | 42 | 36 | 31 | 39 | 34 | 30 | 27 | | | | | | | | | | | | | | | | | | | | |
| 7 | 60 | 46 | 37 | 31 | 57 | 44 | 36 | 30 | 41 | 34 | 29 | 39 | 32 | 27 | 36 | 30 | 26 | 24 | | | | | | | | | | | | | | | | | | | | |
| 8 | 55 | 42 | 33 | 27 | 53 | 40 | 32 | 27 | 38 | 31 | 25 | 35 | 29 | 24 | 33 | 27 | 23 | 21 | | | | | | | | | | | | | | | | | | | | |
| 9 | 52 | 38 | 30 | 24 | 49 | 37 | 29 | 24 | 35 | 28 | 23 | 32 | 26 | 22 | 30 | 25 | 21 | 19 | | | | | | | | | | | | | | | | | | | | |
| 10 | 48 | 35 | 27 | 22 | 46 | 34 | 26 | 21 | 32 | 25 | 20 | 30 | 24 | 20 | 28 | 23 | 19 | 17 | | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3661 | 3661 | 3661 |
| 5° | 3633 | 3533 | 3481 |
| 10° | 3590 | 3420 | 3362 |
| 15° | 3552 | 3318 | 3265 |
| 20° | 3498 | 3215 | 3179 |
| 25° | 3455 | 3129 | 3082 |
| 30° | 3404 | 3039 | 3001 |
| 35° | 3339 | 2941 | 2907 |
| 40° | 3306 | 2835 | 2815 |
| 45° | 3172 | 2747 | 2724 |
| 50° | 3087 | 2632 | 2631 |
| 55° | 3029 | 2507 | 2523 |
| 60° | 2818 | 2366 | 2404 |
| 65° | 2615 | 2215 | 2282 |
| 70° | 2319 | 2032 | 2115 |
| 75° | 1938 | 1833 | 1966 |
| 80° | 1384 | 1608 | 1777 |
| 85° | 642 | 1425 | 1656 |



TEST NUMBER: P231886

CATALOG NUMBER: FVS4M-2-LD4-40-1LO-PFS125-UNV-EDC1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 19.4 | 2.2 |
| 10°-20° | 56.8 | 6.4 |
| 20°-30° | 88.8 | 10.1 |
| 30°-40° | 111.6 | 12.6 |
| 40°-50° | 122.0 | 13.8 |
| 50°-60° | 119.1 | 13.5 |
| 60°-70° | 102.3 | 11.6 |
| 70°-80° | 74.8 | 8.5 |
| 80°-90° | 46.6 | 5.3 |
| 90°-100° | 36.5 | 4.1 |
| 100°-110° | 32.3 | 3.7 |
| 110°-120° | 26.7 | 3.0 |
| 120°-130° | 20.2 | 2.3 |
| 130°-140° | 13.6 | 1.5 |
| 140°-150° | 7.7 | 0.9 |
| 150°-160° | 3.1 | 0.4 |
| 160°-170° | 0.5 | 0.1 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 165.0 | 18.7 |
| 0°-40° | 276.6 | 31.4 |
| 0°-60° | 517.7 | 58.7 |
| 0°-90° | 741.5 | 84.1 |
| 90°-120° | 95.4 | 10.8 |
| 90°-150° | 136.9 | 15.5 |
| 90°-180° | 140.0 | 15.9 |
| 0°-180° | 882.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 204 | 204 | 204 | 204 | 204 | |
| 5° | 203 | 204 | 204 | 204 | 203 | 19 |
| 15° | 196 | 198 | 202 | 204 | 204 | 55 |
| 25° | 182 | 187 | 194 | 198 | 199 | 84 |
| 35° | 163 | 170 | 180 | 186 | 188 | 102 |
| 45° | 137 | 148 | 161 | 169 | 172 | 107 |
| 55° | 110 | 121 | 136 | 146 | 150 | 97 |
| 65° | 74 | 89 | 107 | 119 | 123 | 73 |
| 75° | 38 | 55 | 75 | 88 | 92 | 40 |
| 85° | 7 | 26 | 46 | 59 | 63 | 9 |
| 90° | 0 | 19 | 39 | 52 | 57 | 0 |
| 95° | 0 | 17 | 38 | 51 | 55 | 0 |
| 105° | 0 | 16 | 34 | 46 | 51 | 0 |
| 115° | 0 | 13 | 30 | 42 | 45 | 0 |
| 125° | 0 | 11 | 26 | 35 | 38 | 0 |
| 135° | 0 | 8 | 20 | 27 | 30 | 0 |
| 145° | 0 | 5 | 14 | 20 | 21 | 0 |
| 155° | 0 | 2 | 7 | 11 | 12 | 0 |
| 165° | 0 | 1 | 1 | 2 | 3 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P231886

CATALOG NUMBER: FVS4M-2-LD4-40-1LO-PFS125-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 203.7 | 203.7 | 203.7 | 203.7 | 203.7 | 203.7 | 203.7 | 203.7 | 203.7 | 203.7 | 203.7 |
| 2.5° | 203.7 | 204.3 | 203.7 | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 |
| 5° | 203.1 | 203.1 | 203.1 | 203.7 | 203.7 | 203.7 | 203.7 | 204.3 | 204.3 | 204.3 | 204.3 |
| 7.5° | 201.9 | 202.5 | 202.5 | 202.5 | 203.1 | 203.1 | 203.1 | 203.7 | 203.7 | 203.7 | 204.3 |
| 10° | 200.1 | 200.7 | 200.7 | 201.3 | 201.9 | 201.9 | 201.9 | 201.9 | 202.5 | 203.1 | 203.7 |
| 12.5° | 198.3 | 198.3 | 198.9 | 198.9 | 199.5 | 199.5 | 200.1 | 200.7 | 201.3 | 201.9 | 202.5 |
| 15° | 195.9 | 195.9 | 196.5 | 197.1 | 197.7 | 197.7 | 198.3 | 199.5 | 200.1 | 201.3 | 201.9 |
| 17.5° | 193.0 | 193.0 | 193.5 | 194.1 | 194.7 | 195.3 | 195.9 | 197.1 | 198.3 | 199.5 | 200.1 |
| 20° | 189.4 | 190.0 | 190.6 | 191.2 | 192.4 | 193.0 | 193.5 | 194.7 | 195.9 | 197.7 | 198.3 |
| 22.5° | 185.8 | 186.4 | 187.6 | 188.2 | 189.4 | 190.0 | 190.6 | 192.4 | 193.5 | 194.7 | 196.5 |
| 25° | 182.2 | 182.8 | 183.4 | 184.6 | 186.4 | 187.0 | 187.6 | 189.4 | 191.2 | 192.4 | 194.1 |
| 27.5° | 178.1 | 178.7 | 179.3 | 180.4 | 182.2 | 183.4 | 184.0 | 185.8 | 187.6 | 189.4 | 191.2 |
| 30° | 173.3 | 173.9 | 174.5 | 176.3 | 178.1 | 179.3 | 180.4 | 182.2 | 184.0 | 186.4 | 188.2 |
| 32.5° | 167.9 | 169.1 | 169.7 | 172.1 | 173.9 | 175.1 | 176.3 | 178.1 | 180.4 | 182.8 | 184.6 |
| 35° | 162.6 | 163.8 | 164.4 | 166.7 | 168.5 | 170.3 | 170.9 | 173.3 | 175.7 | 178.1 | 180.4 |
| 37.5° | 160.2 | 157.2 | 159.0 | 161.4 | 163.2 | 165.0 | 166.2 | 168.5 | 170.9 | 173.9 | 175.7 |
| 40° | 152.5 | 151.3 | 152.5 | 155.4 | 157.8 | 159.0 | 160.8 | 163.8 | 166.2 | 169.1 | 170.9 |
| 42.5° | 144.1 | 144.7 | 146.5 | 149.5 | 151.9 | 153.6 | 155.4 | 157.8 | 160.8 | 163.8 | 166.2 |
| 45° | 137.0 | 138.2 | 139.9 | 142.9 | 145.9 | 147.7 | 149.5 | 152.5 | 155.4 | 158.4 | 161.4 |
| 47.5° | 132.8 | 131.0 | 133.4 | 136.4 | 139.4 | 141.1 | 142.9 | 145.9 | 149.5 | 152.5 | 155.4 |
| 50° | 123.3 | 124.5 | 126.8 | 129.8 | 132.8 | 135.2 | 136.4 | 139.9 | 143.5 | 146.5 | 149.5 |
| 52.5° | 115.5 | 116.7 | 119.1 | 122.7 | 125.7 | 128.0 | 129.8 | 133.4 | 137.0 | 139.9 | 143.5 |
| 55° | 110.2 | 109.6 | 112.0 | 114.9 | 119.1 | 120.9 | 122.7 | 126.3 | 129.8 | 133.4 | 136.4 |
| 57.5° | 100.0 | 101.2 | 104.2 | 107.8 | 111.4 | 113.2 | 115.5 | 119.1 | 122.7 | 126.3 | 129.8 |
| 60° | 91.7 | 92.9 | 95.9 | 99.5 | 103.6 | 105.4 | 107.8 | 111.4 | 115.5 | 118.5 | 122.1 |
| 62.5° | 82.8 | 84.0 | 87.5 | 91.1 | 95.3 | 97.7 | 100.0 | 103.6 | 107.8 | 111.4 | 114.9 |
| 65° | 74.4 | 75.6 | 79.2 | 82.8 | 86.9 | 89.3 | 91.7 | 95.9 | 99.5 | 103.6 | 107.2 |
| 67.5° | 64.9 | 66.7 | 69.7 | 74.4 | 78.6 | 81.0 | 82.8 | 87.5 | 92.3 | 95.3 | 99.5 |
| 70° | 56.0 | 57.2 | 61.3 | 65.5 | 70.3 | 72.1 | 74.4 | 79.2 | 83.4 | 87.5 | 91.1 |
| 72.5° | 47.0 | 48.8 | 51.8 | 56.6 | 61.3 | 63.7 | 66.1 | 70.9 | 75.0 | 79.2 | 83.4 |
| 75° | 38.1 | 39.9 | 43.5 | 48.2 | 53.0 | 55.4 | 57.8 | 62.5 | 67.3 | 71.5 | 75.0 |
| 77.5° | 29.8 | 31.6 | 35.1 | 39.9 | 44.7 | 47.0 | 49.4 | 54.2 | 59.0 | 63.1 | 66.7 |
| 80° | 20.8 | 22.6 | 26.8 | 31.6 | 36.3 | 38.7 | 41.7 | 46.5 | 50.6 | 55.4 | 59.0 |
| 82.5° | 13.1 | 15.5 | 19.1 | 23.8 | 29.2 | 31.6 | 34.5 | 38.7 | 43.5 | 48.2 | 51.8 |
| 85° | 6.6 | 8.9 | 12.5 | 17.9 | 23.2 | 25.6 | 28.0 | 32.8 | 37.5 | 42.3 | 45.9 |
| 87.5° | 3.0 | 4.8 | 8.3 | 13.1 | 18.5 | 20.8 | 23.8 | 28.6 | 33.3 | 37.5 | 41.7 |
| 90° | 0.0 | 2.4 | 6.6 | 11.3 | 16.1 | 19.1 | 21.4 | 26.2 | 31.0 | 35.1 | 39.3 |
| 92.5° | 0.0 | 1.8 | 6.0 | 10.7 | 15.5 | 17.9 | 20.8 | 25.6 | 30.4 | 34.5 | 38.1 |
| 95° | 0.0 | 1.8 | 5.4 | 10.1 | 14.9 | 17.3 | 20.2 | 25.0 | 29.2 | 33.9 | 37.5 |
| 97.5° | 0.0 | 1.8 | 5.4 | 9.5 | 14.9 | 17.3 | 19.7 | 24.4 | 28.6 | 33.3 | 36.9 |
| 100° | 0.0 | 1.8 | 4.8 | 9.5 | 14.3 | 16.7 | 19.1 | 23.8 | 28.0 | 32.2 | 36.3 |
| 102.5° | 0.0 | 1.2 | 4.8 | 8.9 | 13.7 | 16.1 | 18.5 | 23.2 | 27.4 | 31.6 | 35.1 |
| 105° | 0.0 | 1.2 | 4.8 | 8.3 | 13.1 | 15.5 | 17.9 | 22.0 | 26.8 | 31.0 | 34.5 |
| 107.5° | 0.0 | 1.2 | 4.2 | 8.3 | 12.5 | 14.9 | 17.3 | 21.4 | 25.6 | 29.8 | 33.3 |
| 110° | 0.0 | 1.2 | 4.2 | 7.7 | 11.9 | 14.3 | 16.7 | 20.8 | 25.0 | 29.2 | 32.8 |



TEST NUMBER: P231886

CATALOG NUMBER: FVS4M-2-LD4-40-1LO-PFS125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-----|-----|-----|-----|------|-------|------|------|------|------|------|
| 112.5° | 0.0 | 1.2 | 3.6 | 7.7 | 11.9 | 13.7 | 16.1 | 20.2 | 24.4 | 28.0 | 31.6 |
| 115° | 0.0 | 0.6 | 3.6 | 7.1 | 11.3 | 13.1 | 15.5 | 19.1 | 23.2 | 26.8 | 30.4 |
| 117.5° | 0.0 | 0.6 | 3.6 | 6.6 | 10.7 | 12.5 | 14.3 | 18.5 | 22.0 | 25.6 | 29.2 |
| 120° | 0.0 | 0.6 | 3.0 | 6.6 | 10.1 | 11.9 | 13.7 | 17.9 | 21.4 | 24.4 | 28.0 |
| 122.5° | 0.0 | 0.6 | 3.0 | 6.0 | 9.5 | 11.3 | 13.1 | 16.7 | 20.2 | 23.8 | 26.8 |
| 125° | 0.0 | 0.6 | 2.4 | 5.4 | 8.9 | 10.7 | 12.5 | 16.1 | 19.1 | 22.6 | 25.6 |
| 127.5° | 0.0 | 0.6 | 2.4 | 4.8 | 8.3 | 10.1 | 11.9 | 14.9 | 17.9 | 21.4 | 23.8 |
| 130° | 0.0 | 0.6 | 1.8 | 4.8 | 7.7 | 8.9 | 10.7 | 13.7 | 17.3 | 20.2 | 22.6 |
| 132.5° | 0.0 | 0.6 | 1.8 | 4.2 | 7.1 | 8.3 | 10.1 | 13.1 | 16.1 | 18.5 | 21.4 |
| 135° | 0.0 | 0.6 | 1.8 | 3.6 | 6.6 | 7.7 | 8.9 | 11.9 | 14.9 | 17.3 | 19.7 |
| 137.5° | 0.0 | 0.6 | 1.2 | 3.6 | 6.0 | 7.1 | 8.3 | 11.3 | 13.7 | 16.1 | 18.5 |
| 140° | 0.0 | 0.0 | 1.2 | 3.0 | 5.4 | 6.6 | 7.7 | 10.1 | 12.5 | 14.9 | 16.7 |
| 142.5° | 0.0 | 0.0 | 0.6 | 2.4 | 4.2 | 5.4 | 6.6 | 8.9 | 11.3 | 13.1 | 15.5 |
| 145° | 0.0 | 0.0 | 0.6 | 1.8 | 3.6 | 4.8 | 6.0 | 7.7 | 10.1 | 11.9 | 13.7 |
| 147.5° | 0.0 | 0.0 | 0.6 | 1.8 | 3.0 | 4.2 | 4.8 | 6.6 | 8.3 | 10.1 | 11.9 |
| 150° | 0.0 | 0.0 | 0.6 | 1.2 | 2.4 | 3.0 | 4.2 | 5.4 | 7.1 | 8.9 | 10.1 |
| 152.5° | 0.0 | 0.0 | 0.6 | 0.6 | 1.8 | 2.4 | 3.0 | 4.2 | 6.0 | 7.1 | 8.3 |
| 155° | 0.0 | 0.0 | 0.6 | 0.6 | 1.2 | 1.8 | 2.4 | 3.6 | 4.8 | 6.0 | 6.6 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.6 | 1.2 | 1.2 | 1.8 | 2.4 | 3.6 | 4.2 | 5.4 |
| 160° | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 1.2 | 1.8 | 2.4 | 3.0 | 3.6 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 1.2 | 1.2 | 1.8 | 2.4 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 | 1.2 | 1.2 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: P231886

CATALOG NUMBER: FVS4M-2-LD4-40-1LO-PFS125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 203.7 | 203.7 | 203.7 | 203.7 | 203.7 | 203.7 | 203.7 | 203.7 | 203.7 | 203.7 |
| 2.5° | 204.3 | 204.3 | 204.3 | 203.7 | 203.7 | 203.7 | 203.7 | 203.1 | 203.1 | 203.1 |
| 5° | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 | 203.7 | 203.7 | 203.1 | 203.1 | 203.1 |
| 7.5° | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 | 203.7 | 203.7 | 203.7 | 203.7 |
| 10° | 203.7 | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 | 204.3 | 203.7 |
| 12.5° | 203.1 | 203.7 | 203.7 | 204.3 | 204.3 | 204.3 | 204.3 | 203.7 | 203.7 | 203.7 |
| 15° | 202.5 | 203.1 | 203.7 | 203.7 | 203.7 | 204.3 | 204.3 | 203.7 | 203.7 | 203.7 |
| 17.5° | 201.3 | 201.9 | 202.5 | 202.5 | 203.1 | 203.1 | 203.1 | 203.1 | 203.1 | 203.1 |
| 20° | 199.5 | 200.1 | 201.3 | 201.9 | 201.9 | 201.9 | 201.9 | 202.5 | 202.5 | 202.5 |
| 22.5° | 197.7 | 198.3 | 199.5 | 200.1 | 200.1 | 200.7 | 200.7 | 200.7 | 200.7 | 200.7 |
| 25° | 195.3 | 196.5 | 197.1 | 197.7 | 198.3 | 198.9 | 198.9 | 198.9 | 199.5 | 198.9 |
| 27.5° | 193.0 | 194.1 | 195.3 | 195.9 | 195.9 | 196.5 | 197.1 | 197.1 | 197.1 | 197.1 |
| 30° | 189.4 | 191.2 | 191.8 | 193.0 | 193.5 | 193.5 | 194.1 | 194.7 | 194.7 | 194.7 |
| 32.5° | 186.4 | 187.6 | 189.4 | 190.0 | 190.6 | 191.2 | 191.2 | 191.8 | 191.8 | 191.8 |
| 35° | 182.2 | 183.4 | 185.2 | 186.4 | 186.4 | 187.0 | 187.6 | 188.2 | 188.2 | 188.2 |
| 37.5° | 177.5 | 179.8 | 181.0 | 182.2 | 182.8 | 182.8 | 184.0 | 184.6 | 184.6 | 184.6 |
| 40° | 173.3 | 175.1 | 176.9 | 178.1 | 178.7 | 178.7 | 179.8 | 179.8 | 180.4 | 180.4 |
| 42.5° | 167.9 | 170.3 | 172.1 | 173.3 | 173.9 | 174.5 | 175.1 | 175.7 | 176.3 | 176.3 |
| 45° | 163.8 | 165.6 | 167.3 | 168.5 | 169.1 | 169.7 | 170.9 | 171.5 | 171.5 | 171.5 |
| 47.5° | 157.8 | 160.2 | 162.0 | 163.2 | 163.8 | 165.0 | 165.6 | 166.2 | 166.2 | 166.2 |
| 50° | 151.9 | 154.2 | 156.6 | 158.4 | 158.4 | 159.6 | 160.2 | 161.4 | 161.4 | 161.4 |
| 52.5° | 145.9 | 148.3 | 150.7 | 152.5 | 153.1 | 153.6 | 154.8 | 155.4 | 156.0 | 155.4 |
| 55° | 139.4 | 141.7 | 144.1 | 145.9 | 146.5 | 147.1 | 148.3 | 148.9 | 149.5 | 149.5 |
| 57.5° | 132.2 | 135.2 | 137.6 | 139.4 | 139.9 | 140.5 | 141.7 | 142.9 | 142.9 | 143.5 |
| 60° | 125.7 | 128.0 | 130.4 | 132.2 | 133.4 | 134.0 | 135.2 | 135.8 | 136.4 | 136.4 |
| 62.5° | 117.9 | 120.9 | 123.9 | 125.7 | 126.3 | 127.4 | 128.0 | 128.6 | 129.2 | 129.2 |
| 65° | 110.2 | 113.2 | 116.1 | 117.9 | 119.1 | 119.7 | 120.9 | 121.5 | 122.1 | 122.7 |
| 67.5° | 103.0 | 105.4 | 108.4 | 110.2 | 110.8 | 112.0 | 113.2 | 114.3 | 114.9 | 114.9 |
| 70° | 94.7 | 97.7 | 100.0 | 102.4 | 103.6 | 104.2 | 105.4 | 106.0 | 107.2 | 106.6 |
| 72.5° | 86.4 | 89.3 | 92.9 | 94.7 | 95.3 | 96.5 | 97.7 | 98.9 | 99.5 | 98.9 |
| 75° | 78.6 | 81.6 | 84.6 | 86.4 | 87.5 | 88.1 | 89.9 | 91.1 | 91.1 | 91.7 |
| 77.5° | 70.3 | 73.8 | 76.8 | 78.6 | 79.8 | 80.4 | 82.2 | 82.8 | 83.4 | 83.4 |
| 80° | 62.5 | 66.1 | 68.5 | 70.9 | 72.7 | 72.7 | 74.4 | 75.0 | 75.6 | 75.6 |
| 82.5° | 55.4 | 59.0 | 61.9 | 63.7 | 64.9 | 66.1 | 67.3 | 67.9 | 68.5 | 68.5 |
| 85° | 49.4 | 53.0 | 55.4 | 58.4 | 59.0 | 60.1 | 61.3 | 62.5 | 63.1 | 63.1 |
| 87.5° | 45.3 | 48.8 | 51.2 | 53.6 | 54.8 | 56.0 | 57.2 | 58.4 | 59.0 | 59.0 |
| 90° | 42.9 | 46.5 | 48.8 | 51.2 | 52.4 | 53.6 | 54.8 | 56.0 | 56.6 | 56.6 |
| 92.5° | 41.7 | 45.3 | 48.2 | 50.0 | 51.2 | 52.4 | 53.6 | 54.8 | 55.4 | 55.4 |
| 95° | 41.1 | 44.7 | 47.0 | 49.4 | 50.6 | 51.2 | 53.0 | 53.6 | 54.2 | 54.8 |
| 97.5° | 40.5 | 43.5 | 46.5 | 48.8 | 50.0 | 50.6 | 52.4 | 53.0 | 53.6 | 53.6 |
| 100° | 39.9 | 42.9 | 45.9 | 47.6 | 48.8 | 50.0 | 51.2 | 52.4 | 52.4 | 53.0 |
| 102.5° | 38.7 | 41.7 | 44.7 | 47.0 | 47.6 | 48.8 | 50.0 | 51.2 | 51.8 | 51.8 |
| 105° | 37.5 | 41.1 | 43.5 | 45.9 | 46.5 | 47.6 | 48.8 | 50.0 | 50.6 | 50.6 |
| 107.5° | 36.9 | 39.9 | 42.3 | 44.7 | 45.3 | 46.5 | 47.6 | 48.8 | 49.4 | 49.4 |
| 110° | 35.7 | 38.7 | 41.1 | 43.5 | 44.1 | 45.3 | 46.5 | 47.0 | 47.6 | 47.6 |



TEST NUMBER: P231886

CATALOG NUMBER: FVS4M-2-LD4-40-1LO-PFS125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|------|------|------|------|-------|------|------|------|------|------|
| 112.5° | 34.5 | 37.5 | 39.9 | 41.7 | 42.9 | 43.5 | 44.7 | 45.9 | 46.5 | 46.5 |
| 115° | 33.3 | 36.3 | 38.7 | 40.5 | 41.7 | 42.3 | 43.5 | 44.1 | 44.7 | 44.7 |
| 117.5° | 32.2 | 34.5 | 36.9 | 39.3 | 39.9 | 40.5 | 41.7 | 42.9 | 42.9 | 43.5 |
| 120° | 31.0 | 33.3 | 35.7 | 37.5 | 38.1 | 39.3 | 39.9 | 41.1 | 41.1 | 41.7 |
| 122.5° | 29.2 | 32.2 | 33.9 | 35.7 | 36.9 | 37.5 | 38.7 | 39.3 | 39.3 | 39.9 |
| 125° | 28.0 | 30.4 | 32.8 | 34.5 | 35.1 | 35.7 | 36.9 | 37.5 | 37.5 | 38.1 |
| 127.5° | 26.8 | 28.6 | 31.0 | 32.8 | 33.3 | 33.9 | 35.1 | 35.7 | 35.7 | 35.7 |
| 130° | 25.0 | 27.4 | 29.2 | 31.0 | 31.6 | 32.2 | 32.8 | 33.3 | 33.9 | 33.9 |
| 132.5° | 23.8 | 25.6 | 27.4 | 29.2 | 29.8 | 30.4 | 31.0 | 31.6 | 32.2 | 32.2 |
| 135° | 22.0 | 23.8 | 25.6 | 26.8 | 27.4 | 28.0 | 29.2 | 29.8 | 29.8 | 29.8 |
| 137.5° | 20.2 | 22.0 | 23.8 | 25.0 | 25.6 | 26.2 | 26.8 | 27.4 | 28.0 | 28.0 |
| 140° | 18.5 | 20.2 | 22.0 | 23.2 | 23.8 | 24.4 | 25.0 | 25.6 | 25.6 | 25.6 |
| 142.5° | 17.3 | 18.5 | 20.2 | 21.4 | 22.0 | 22.0 | 22.6 | 23.2 | 23.2 | 23.2 |
| 145° | 15.5 | 16.7 | 17.9 | 19.1 | 19.7 | 20.2 | 20.8 | 20.8 | 21.4 | 21.4 |
| 147.5° | 13.7 | 14.9 | 16.1 | 17.3 | 17.9 | 17.9 | 18.5 | 19.1 | 19.1 | 19.1 |
| 150° | 11.9 | 13.1 | 14.3 | 14.9 | 15.5 | 15.5 | 16.1 | 16.7 | 16.7 | 16.7 |
| 152.5° | 10.1 | 11.3 | 12.5 | 13.1 | 13.1 | 13.7 | 14.3 | 14.3 | 14.3 | 14.3 |
| 155° | 8.3 | 8.9 | 10.1 | 10.7 | 11.3 | 11.3 | 11.9 | 11.9 | 11.9 | 11.9 |
| 157.5° | 6.0 | 7.1 | 7.7 | 8.9 | 8.9 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 |
| 160° | 4.8 | 5.4 | 6.0 | 6.6 | 7.1 | 7.1 | 7.1 | 7.7 | 7.7 | 7.7 |
| 162.5° | 3.0 | 3.6 | 3.6 | 4.2 | 4.8 | 4.8 | 5.4 | 5.4 | 5.4 | 5.4 |
| 165° | 1.8 | 1.8 | 2.4 | 2.4 | 2.4 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)