

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: P231884

Luminaire Tested: **FVS4M-2-LD4-30-1LO-PFS125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P231884
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-LD4-30-1LO-PFS125-UNV-EDC1
Description: FAILSAFE FVS LED FIXTURE
2FT LENGTH, 1-MODULE LED WITH PFS125 LENS
Light Source: (42) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

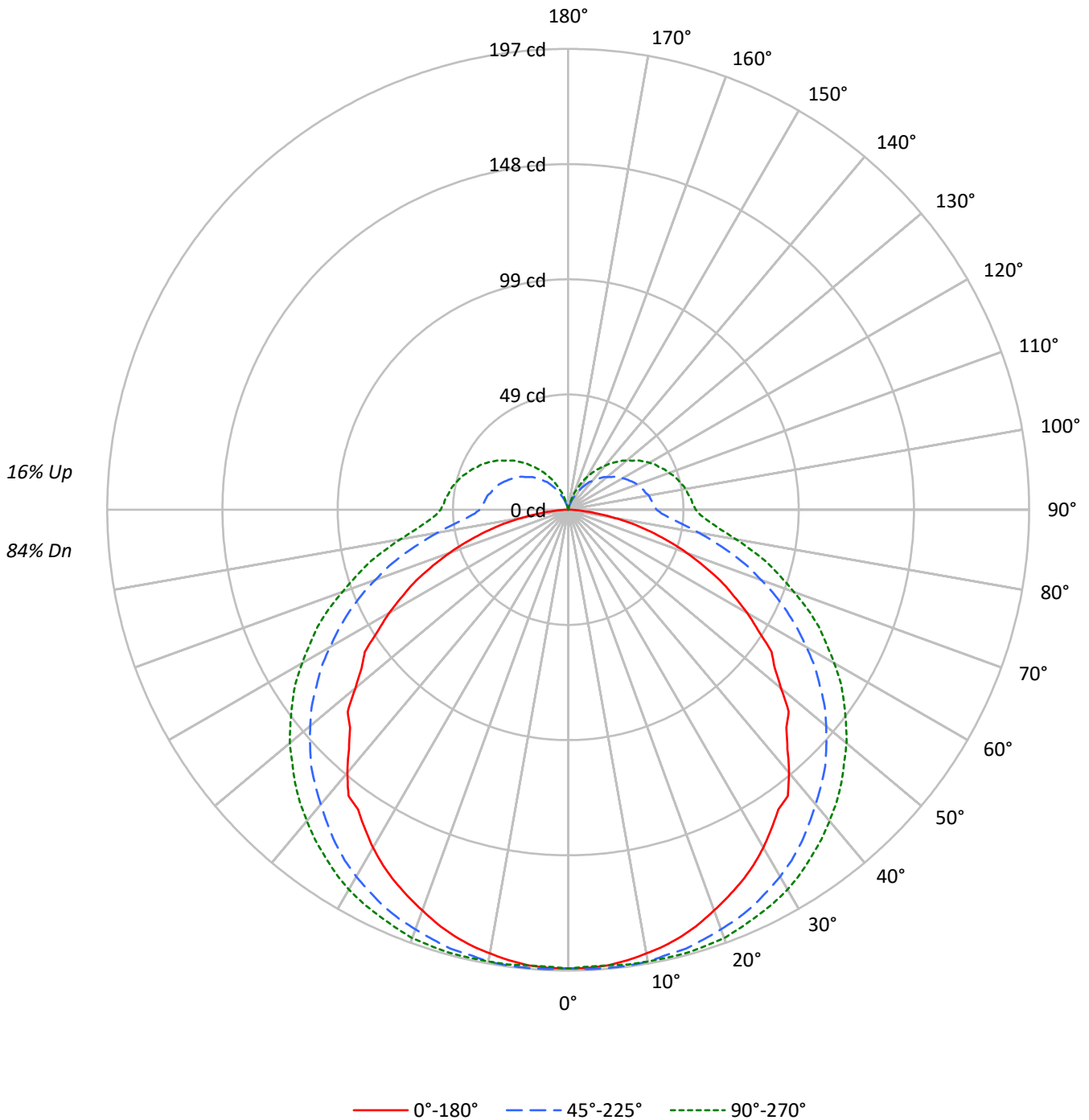
Lumens per Lamp: N/A
Luminaire Lumens: 849.0 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.42 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.31' x L: 1.92' x H: 0.19')
CIE Type: Semi-Direct

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: P231884

CATALOG NUMBER: FVS4M-2-LD4-30-1LO-PFS125-UNV-EDC1

Luminous Intensity Polar Plot





TEST NUMBER: P231884

CATALOG NUMBER: FVS4M-2-LD4-30-1LO-PFS125-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 | 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° | 3524 | 3524 | 3524 |
| 5° | 3497 | 3400 | 3351 |
| 10° | 3455 | 3292 | 3236 |
| 15° | 3419 | 3193 | 3143 |
| 20° | 3367 | 3095 | 3059 |
| 25° | 3326 | 3013 | 2967 |
| 30° | 3276 | 2925 | 2890 |
| 35° | 3213 | 2832 | 2798 |
| 40° | 3183 | 2729 | 2710 |
| 45° | 3051 | 2643 | 2623 |
| 50° | 2972 | 2533 | 2532 |
| 55° | 2917 | 2413 | 2428 |
| 60° | 2714 | 2277 | 2314 |
| 65° | 2520 | 2132 | 2196 |
| 70° | 2232 | 1956 | 2036 |
| 75° | 1867 | 1764 | 1893 |
| 80° | 1338 | 1548 | 1711 |
| 85° | 613 | 1369 | 1595 |



TEST NUMBER: P231884

CATALOG NUMBER: FVS4M-2-LD4-30-1LO-PFS125-UNV-EDC1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 18.7 | 2.2 |
| 10°-20° | 54.6 | 6.4 |
| 20°-30° | 85.5 | 10.1 |
| 30°-40° | 107.4 | 12.6 |
| 40°-50° | 117.5 | 13.8 |
| 50°-60° | 114.7 | 13.5 |
| 60°-70° | 98.5 | 11.6 |
| 70°-80° | 72.0 | 8.5 |
| 80°-90° | 44.9 | 5.3 |
| 90°-100° | 35.1 | 4.1 |
| 100°-110° | 31.1 | 3.7 |
| 110°-120° | 25.6 | 3.0 |
| 120°-130° | 19.4 | 2.3 |
| 130°-140° | 13.1 | 1.5 |
| 140°-150° | 7.4 | 0.9 |
| 150°-160° | 3.0 | 0.4 |
| 160°-170° | 0.5 | 0.1 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 158.8 | 18.7 |
| 0°-40° | 266.2 | 31.4 |
| 0°-60° | 498.3 | 58.7 |
| 0°-90° | 713.8 | 84.1 |
| 90°-120° | 91.8 | 10.8 |
| 90°-150° | 131.8 | 15.5 |
| 90°-180° | 135.0 | 15.9 |
| 0°-180° | 849.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 196 | 196 | 196 | 196 | 196 | |
| 5° | 196 | 196 | 197 | 197 | 196 | 19 |
| 15° | 189 | 190 | 194 | 196 | 196 | 53 |
| 25° | 175 | 180 | 187 | 191 | 192 | 81 |
| 35° | 156 | 164 | 174 | 179 | 181 | 99 |
| 45° | 132 | 142 | 155 | 163 | 165 | 103 |
| 55° | 106 | 116 | 131 | 141 | 144 | 93 |
| 65° | 72 | 86 | 103 | 115 | 118 | 71 |
| 75° | 37 | 53 | 72 | 84 | 88 | 39 |
| 85° | 6 | 25 | 44 | 57 | 61 | 8 |
| 90° | 0 | 18 | 38 | 50 | 54 | 0 |
| 95° | 0 | 17 | 36 | 49 | 53 | 0 |
| 105° | 0 | 15 | 33 | 45 | 49 | 0 |
| 115° | 0 | 13 | 29 | 40 | 43 | 0 |
| 125° | 0 | 10 | 25 | 34 | 37 | 0 |
| 135° | 0 | 8 | 19 | 26 | 29 | 0 |
| 145° | 0 | 5 | 13 | 19 | 21 | 0 |
| 155° | 0 | 2 | 6 | 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: P231884

CATALOG NUMBER: FVS4M-2-LD4-30-1LO-PFS125-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 196.1 | 196.1 | 196.1 | 196.1 | 196.1 | 196.1 | 196.1 | 196.1 | 196.1 | 196.1 | 196.1 |
| 2.5° | 196.1 | 196.6 | 196.1 | 196.6 | 196.6 | 196.6 | 196.6 | 196.6 | 196.6 | 196.6 | 196.6 |
| 5° | 195.5 | 195.5 | 195.5 | 196.1 | 196.1 | 196.1 | 196.1 | 196.6 | 196.6 | 196.6 | 196.6 |
| 7.5° | 194.3 | 194.9 | 194.9 | 194.9 | 195.5 | 195.5 | 195.5 | 196.1 | 196.1 | 196.1 | 196.6 |
| 10° | 192.6 | 193.2 | 193.2 | 193.8 | 194.3 | 194.3 | 194.3 | 194.3 | 194.9 | 195.5 | 196.1 |
| 12.5° | 190.9 | 190.9 | 191.5 | 191.5 | 192.0 | 192.0 | 192.6 | 193.2 | 193.8 | 194.3 | 194.9 |
| 15° | 188.6 | 188.6 | 189.2 | 189.7 | 190.3 | 190.3 | 190.9 | 192.0 | 192.6 | 193.8 | 194.3 |
| 17.5° | 185.7 | 185.7 | 186.3 | 186.9 | 187.5 | 188.0 | 188.6 | 189.7 | 190.9 | 192.0 | 192.6 |
| 20° | 182.3 | 182.9 | 183.4 | 184.0 | 185.2 | 185.7 | 186.3 | 187.5 | 188.6 | 190.3 | 190.9 |
| 22.5° | 178.9 | 179.4 | 180.6 | 181.1 | 182.3 | 182.9 | 183.4 | 185.2 | 186.3 | 187.5 | 189.2 |
| 25° | 175.4 | 176.0 | 176.6 | 177.7 | 179.4 | 180.0 | 180.6 | 182.3 | 184.0 | 185.2 | 186.9 |
| 27.5° | 171.4 | 172.0 | 172.5 | 173.7 | 175.4 | 176.6 | 177.1 | 178.9 | 180.6 | 182.3 | 184.0 |
| 30° | 166.8 | 167.4 | 168.0 | 169.7 | 171.4 | 172.5 | 173.7 | 175.4 | 177.1 | 179.4 | 181.1 |
| 32.5° | 161.7 | 162.8 | 163.4 | 165.7 | 167.4 | 168.5 | 169.7 | 171.4 | 173.7 | 176.0 | 177.7 |
| 35° | 156.5 | 157.6 | 158.2 | 160.5 | 162.2 | 163.9 | 164.5 | 166.8 | 169.1 | 171.4 | 173.7 |
| 37.5° | 154.2 | 151.3 | 153.1 | 155.3 | 157.1 | 158.8 | 159.9 | 162.2 | 164.5 | 167.4 | 169.1 |
| 40° | 146.8 | 145.6 | 146.8 | 149.6 | 151.9 | 153.1 | 154.8 | 157.6 | 159.9 | 162.8 | 164.5 |
| 42.5° | 138.7 | 139.3 | 141.0 | 143.9 | 146.2 | 147.9 | 149.6 | 151.9 | 154.8 | 157.6 | 159.9 |
| 45° | 131.8 | 133.0 | 134.7 | 137.6 | 140.4 | 142.2 | 143.9 | 146.8 | 149.6 | 152.5 | 155.3 |
| 47.5° | 127.8 | 126.1 | 128.4 | 131.3 | 134.1 | 135.9 | 137.6 | 140.4 | 143.9 | 146.8 | 149.6 |
| 50° | 118.7 | 119.8 | 122.1 | 125.0 | 127.8 | 130.1 | 131.3 | 134.7 | 138.2 | 141.0 | 143.9 |
| 52.5° | 111.2 | 112.4 | 114.6 | 118.1 | 121.0 | 123.2 | 125.0 | 128.4 | 131.8 | 134.7 | 138.2 |
| 55° | 106.1 | 105.5 | 107.8 | 110.6 | 114.6 | 116.4 | 118.1 | 121.5 | 125.0 | 128.4 | 131.3 |
| 57.5° | 96.3 | 97.5 | 100.3 | 103.8 | 107.2 | 108.9 | 111.2 | 114.6 | 118.1 | 121.5 | 125.0 |
| 60° | 88.3 | 89.4 | 92.3 | 95.7 | 99.7 | 101.5 | 103.8 | 107.2 | 111.2 | 114.1 | 117.5 |
| 62.5° | 79.7 | 80.8 | 84.3 | 87.7 | 91.7 | 94.0 | 96.3 | 99.7 | 103.8 | 107.2 | 110.6 |
| 65° | 71.7 | 72.8 | 76.2 | 79.7 | 83.7 | 86.0 | 88.3 | 92.3 | 95.7 | 99.7 | 103.2 |
| 67.5° | 62.5 | 64.2 | 67.1 | 71.7 | 75.7 | 78.0 | 79.7 | 84.3 | 88.9 | 91.7 | 95.7 |
| 70° | 53.9 | 55.0 | 59.0 | 63.1 | 67.6 | 69.4 | 71.7 | 76.2 | 80.3 | 84.3 | 87.7 |
| 72.5° | 45.3 | 47.0 | 49.9 | 54.5 | 59.0 | 61.3 | 63.6 | 68.2 | 72.2 | 76.2 | 80.3 |
| 75° | 36.7 | 38.4 | 41.8 | 46.4 | 51.0 | 53.3 | 55.6 | 60.2 | 64.8 | 68.8 | 72.2 |
| 77.5° | 28.7 | 30.4 | 33.8 | 38.4 | 43.0 | 45.3 | 47.6 | 52.2 | 56.8 | 60.8 | 64.2 |
| 80° | 20.1 | 21.8 | 25.8 | 30.4 | 35.0 | 37.3 | 40.1 | 44.7 | 48.7 | 53.3 | 56.8 |
| 82.5° | 12.6 | 14.9 | 18.3 | 22.9 | 28.1 | 30.4 | 33.2 | 37.3 | 41.8 | 46.4 | 49.9 |
| 85° | 6.3 | 8.6 | 12.0 | 17.2 | 22.4 | 24.6 | 26.9 | 31.5 | 36.1 | 40.7 | 44.1 |
| 87.5° | 2.9 | 4.6 | 8.0 | 12.6 | 17.8 | 20.1 | 22.9 | 27.5 | 32.1 | 36.1 | 40.1 |
| 90° | 0.0 | 2.3 | 6.3 | 10.9 | 15.5 | 18.3 | 20.6 | 25.2 | 29.8 | 33.8 | 37.8 |
| 92.5° | 0.0 | 1.7 | 5.7 | 10.3 | 14.9 | 17.2 | 20.1 | 24.6 | 29.2 | 33.2 | 36.7 |
| 95° | 0.0 | 1.7 | 5.2 | 9.7 | 14.3 | 16.6 | 19.5 | 24.1 | 28.1 | 32.7 | 36.1 |
| 97.5° | 0.0 | 1.7 | 5.2 | 9.2 | 14.3 | 16.6 | 18.9 | 23.5 | 27.5 | 32.1 | 35.5 |
| 100° | 0.0 | 1.7 | 4.6 | 9.2 | 13.8 | 16.1 | 18.3 | 22.9 | 26.9 | 31.0 | 35.0 |
| 102.5° | 0.0 | 1.1 | 4.6 | 8.6 | 13.2 | 15.5 | 17.8 | 22.4 | 26.4 | 30.4 | 33.8 |
| 105° | 0.0 | 1.1 | 4.6 | 8.0 | 12.6 | 14.9 | 17.2 | 21.2 | 25.8 | 29.8 | 33.2 |
| 107.5° | 0.0 | 1.1 | 4.0 | 8.0 | 12.0 | 14.3 | 16.6 | 20.6 | 24.6 | 28.7 | 32.1 |
| 110° | 0.0 | 1.1 | 4.0 | 7.5 | 11.5 | 13.8 | 16.1 | 20.1 | 24.1 | 28.1 | 31.5 |



TEST NUMBER: P231884

CATALOG NUMBER: FVS4M-2-LD4-30-1LO-PFS125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-----|-----|-----|-----|------|-------|------|------|------|------|------|
| 112.5° | 0.0 | 1.1 | 3.4 | 7.5 | 11.5 | 13.2 | 15.5 | 19.5 | 23.5 | 26.9 | 30.4 |
| 115° | 0.0 | 0.6 | 3.4 | 6.9 | 10.9 | 12.6 | 14.9 | 18.3 | 22.4 | 25.8 | 29.2 |
| 117.5° | 0.0 | 0.6 | 3.4 | 6.3 | 10.3 | 12.0 | 13.8 | 17.8 | 21.2 | 24.6 | 28.1 |
| 120° | 0.0 | 0.6 | 2.9 | 6.3 | 9.7 | 11.5 | 13.2 | 17.2 | 20.6 | 23.5 | 26.9 |
| 122.5° | 0.0 | 0.6 | 2.9 | 5.7 | 9.2 | 10.9 | 12.6 | 16.1 | 19.5 | 22.9 | 25.8 |
| 125° | 0.0 | 0.6 | 2.3 | 5.2 | 8.6 | 10.3 | 12.0 | 15.5 | 18.3 | 21.8 | 24.6 |
| 127.5° | 0.0 | 0.6 | 2.3 | 4.6 | 8.0 | 9.7 | 11.5 | 14.3 | 17.2 | 20.6 | 22.9 |
| 130° | 0.0 | 0.6 | 1.7 | 4.6 | 7.5 | 8.6 | 10.3 | 13.2 | 16.6 | 19.5 | 21.8 |
| 132.5° | 0.0 | 0.6 | 1.7 | 4.0 | 6.9 | 8.0 | 9.7 | 12.6 | 15.5 | 17.8 | 20.6 |
| 135° | 0.0 | 0.6 | 1.7 | 3.4 | 6.3 | 7.5 | 8.6 | 11.5 | 14.3 | 16.6 | 18.9 |
| 137.5° | 0.0 | 0.6 | 1.1 | 3.4 | 5.7 | 6.9 | 8.0 | 10.9 | 13.2 | 15.5 | 17.8 |
| 140° | 0.0 | 0.0 | 1.1 | 2.9 | 5.2 | 6.3 | 7.5 | 9.7 | 12.0 | 14.3 | 16.1 |
| 142.5° | 0.0 | 0.0 | 0.6 | 2.3 | 4.0 | 5.2 | 6.3 | 8.6 | 10.9 | 12.6 | 14.9 |
| 145° | 0.0 | 0.0 | 0.6 | 1.7 | 3.4 | 4.6 | 5.7 | 7.5 | 9.7 | 11.5 | 13.2 |
| 147.5° | 0.0 | 0.0 | 0.6 | 1.7 | 2.9 | 4.0 | 4.6 | 6.3 | 8.0 | 9.7 | 11.5 |
| 150° | 0.0 | 0.0 | 0.6 | 1.1 | 2.3 | 2.9 | 4.0 | 5.2 | 6.9 | 8.6 | 9.7 |
| 152.5° | 0.0 | 0.0 | 0.6 | 0.6 | 1.7 | 2.3 | 2.9 | 4.0 | 5.7 | 6.9 | 8.0 |
| 155° | 0.0 | 0.0 | 0.6 | 0.6 | 1.1 | 1.7 | 2.3 | 3.4 | 4.6 | 5.7 | 6.3 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.6 | 1.1 | 1.1 | 1.7 | 2.3 | 3.4 | 4.0 | 5.2 |
| 160° | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 1.1 | 1.7 | 2.3 | 2.9 | 3.4 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 1.1 | 1.1 | 1.7 | 2.3 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 | 1.1 | 1.1 |
| 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: P231884

CATALOG NUMBER: FVS4M-2-LD4-30-1LO-PFS125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 196.1 | 196.1 | 196.1 | 196.1 | 196.1 | 196.1 | 196.1 | 196.1 | 196.1 | 196.1 |
| 2.5° | 196.6 | 196.6 | 196.6 | 196.1 | 196.1 | 196.1 | 196.1 | 195.5 | 195.5 | 195.5 |
| 5° | 196.6 | 196.6 | 196.6 | 196.6 | 196.6 | 196.1 | 196.1 | 195.5 | 195.5 | 195.5 |
| 7.5° | 196.6 | 196.6 | 196.6 | 196.6 | 196.6 | 196.6 | 196.1 | 196.1 | 196.1 | 196.1 |
| 10° | 196.1 | 196.6 | 196.6 | 196.6 | 196.6 | 196.6 | 196.6 | 196.6 | 196.6 | 196.1 |
| 12.5° | 195.5 | 196.1 | 196.1 | 196.6 | 196.6 | 196.6 | 196.6 | 196.1 | 196.1 | 196.1 |
| 15° | 194.9 | 195.5 | 196.1 | 196.1 | 196.1 | 196.6 | 196.6 | 196.1 | 196.1 | 196.1 |
| 17.5° | 193.8 | 194.3 | 194.9 | 194.9 | 195.5 | 195.5 | 195.5 | 195.5 | 195.5 | 195.5 |
| 20° | 192.0 | 192.6 | 193.8 | 194.3 | 194.3 | 194.3 | 194.3 | 194.9 | 194.9 | 194.9 |
| 22.5° | 190.3 | 190.9 | 192.0 | 192.6 | 192.6 | 193.2 | 193.2 | 193.2 | 193.2 | 193.2 |
| 25° | 188.0 | 189.2 | 189.7 | 190.3 | 190.9 | 191.5 | 191.5 | 191.5 | 192.0 | 191.5 |
| 27.5° | 185.7 | 186.9 | 188.0 | 188.6 | 188.6 | 189.2 | 189.7 | 189.7 | 189.7 | 189.7 |
| 30° | 182.3 | 184.0 | 184.6 | 185.7 | 186.3 | 186.3 | 186.9 | 187.5 | 187.5 | 187.5 |
| 32.5° | 179.4 | 180.6 | 182.3 | 182.9 | 183.4 | 184.0 | 184.0 | 184.6 | 184.6 | 184.6 |
| 35° | 175.4 | 176.6 | 178.3 | 179.4 | 179.4 | 180.0 | 180.6 | 181.1 | 181.1 | 181.1 |
| 37.5° | 170.8 | 173.1 | 174.3 | 175.4 | 176.0 | 176.0 | 177.1 | 177.7 | 177.7 | 177.7 |
| 40° | 166.8 | 168.5 | 170.3 | 171.4 | 172.0 | 172.0 | 173.1 | 173.1 | 173.7 | 173.7 |
| 42.5° | 161.7 | 163.9 | 165.7 | 166.8 | 167.4 | 168.0 | 168.5 | 169.1 | 169.7 | 169.7 |
| 45° | 157.6 | 159.4 | 161.1 | 162.2 | 162.8 | 163.4 | 164.5 | 165.1 | 165.1 | 165.1 |
| 47.5° | 151.9 | 154.2 | 155.9 | 157.1 | 157.6 | 158.8 | 159.4 | 159.9 | 159.9 | 159.9 |
| 50° | 146.2 | 148.5 | 150.8 | 152.5 | 152.5 | 153.6 | 154.2 | 155.3 | 155.3 | 155.3 |
| 52.5° | 140.4 | 142.7 | 145.0 | 146.8 | 147.3 | 147.9 | 149.0 | 149.6 | 150.2 | 149.6 |
| 55° | 134.1 | 136.4 | 138.7 | 140.4 | 141.0 | 141.6 | 142.7 | 143.3 | 143.9 | 143.9 |
| 57.5° | 127.3 | 130.1 | 132.4 | 134.1 | 134.7 | 135.3 | 136.4 | 137.6 | 137.6 | 138.2 |
| 60° | 121.0 | 123.2 | 125.5 | 127.3 | 128.4 | 129.0 | 130.1 | 130.7 | 131.3 | 131.3 |
| 62.5° | 113.5 | 116.4 | 119.2 | 121.0 | 121.5 | 122.7 | 123.2 | 123.8 | 124.4 | 124.4 |
| 65° | 106.1 | 108.9 | 111.8 | 113.5 | 114.6 | 115.2 | 116.4 | 116.9 | 117.5 | 118.1 |
| 67.5° | 99.2 | 101.5 | 104.3 | 106.1 | 106.6 | 107.8 | 108.9 | 110.1 | 110.6 | 110.6 |
| 70° | 91.1 | 94.0 | 96.3 | 98.6 | 99.7 | 100.3 | 101.5 | 102.0 | 103.2 | 102.6 |
| 72.5° | 83.1 | 86.0 | 89.4 | 91.1 | 91.7 | 92.9 | 94.0 | 95.2 | 95.7 | 95.2 |
| 75° | 75.7 | 78.5 | 81.4 | 83.1 | 84.3 | 84.8 | 86.6 | 87.7 | 87.7 | 88.3 |
| 77.5° | 67.6 | 71.1 | 73.9 | 75.7 | 76.8 | 77.4 | 79.1 | 79.7 | 80.3 | 80.3 |
| 80° | 60.2 | 63.6 | 65.9 | 68.2 | 69.9 | 69.9 | 71.7 | 72.2 | 72.8 | 72.8 |
| 82.5° | 53.3 | 56.8 | 59.6 | 61.3 | 62.5 | 63.6 | 64.8 | 65.4 | 65.9 | 65.9 |
| 85° | 47.6 | 51.0 | 53.3 | 56.2 | 56.8 | 57.9 | 59.0 | 60.2 | 60.8 | 60.8 |
| 87.5° | 43.6 | 47.0 | 49.3 | 51.6 | 52.7 | 53.9 | 55.0 | 56.2 | 56.8 | 56.8 |
| 90° | 41.3 | 44.7 | 47.0 | 49.3 | 50.4 | 51.6 | 52.7 | 53.9 | 54.5 | 54.5 |
| 92.5° | 40.1 | 43.6 | 46.4 | 48.2 | 49.3 | 50.4 | 51.6 | 52.7 | 53.3 | 53.3 |
| 95° | 39.6 | 43.0 | 45.3 | 47.6 | 48.7 | 49.3 | 51.0 | 51.6 | 52.2 | 52.7 |
| 97.5° | 39.0 | 41.8 | 44.7 | 47.0 | 48.2 | 48.7 | 50.4 | 51.0 | 51.6 | 51.6 |
| 100° | 38.4 | 41.3 | 44.1 | 45.9 | 47.0 | 48.2 | 49.3 | 50.4 | 50.4 | 51.0 |
| 102.5° | 37.3 | 40.1 | 43.0 | 45.3 | 45.9 | 47.0 | 48.2 | 49.3 | 49.9 | 49.9 |
| 105° | 36.1 | 39.6 | 41.8 | 44.1 | 44.7 | 45.9 | 47.0 | 48.2 | 48.7 | 48.7 |
| 107.5° | 35.5 | 38.4 | 40.7 | 43.0 | 43.6 | 44.7 | 45.9 | 47.0 | 47.6 | 47.6 |
| 110° | 34.4 | 37.3 | 39.6 | 41.8 | 42.4 | 43.6 | 44.7 | 45.3 | 45.9 | 45.9 |



TEST NUMBER: P231884

CATALOG NUMBER: FVS4M-2-LD4-30-1LO-PFS125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|------|------|------|------|-------|------|------|------|------|------|
| 112.5° | 33.2 | 36.1 | 38.4 | 40.1 | 41.3 | 41.8 | 43.0 | 44.1 | 44.7 | 44.7 |
| 115° | 32.1 | 35.0 | 37.3 | 39.0 | 40.1 | 40.7 | 41.8 | 42.4 | 43.0 | 43.0 |
| 117.5° | 31.0 | 33.2 | 35.5 | 37.8 | 38.4 | 39.0 | 40.1 | 41.3 | 41.3 | 41.8 |
| 120° | 29.8 | 32.1 | 34.4 | 36.1 | 36.7 | 37.8 | 38.4 | 39.6 | 39.6 | 40.1 |
| 122.5° | 28.1 | 31.0 | 32.7 | 34.4 | 35.5 | 36.1 | 37.3 | 37.8 | 37.8 | 38.4 |
| 125° | 26.9 | 29.2 | 31.5 | 33.2 | 33.8 | 34.4 | 35.5 | 36.1 | 36.1 | 36.7 |
| 127.5° | 25.8 | 27.5 | 29.8 | 31.5 | 32.1 | 32.7 | 33.8 | 34.4 | 34.4 | 34.4 |
| 130° | 24.1 | 26.4 | 28.1 | 29.8 | 30.4 | 31.0 | 31.5 | 32.1 | 32.7 | 32.7 |
| 132.5° | 22.9 | 24.6 | 26.4 | 28.1 | 28.7 | 29.2 | 29.8 | 30.4 | 31.0 | 31.0 |
| 135° | 21.2 | 22.9 | 24.6 | 25.8 | 26.4 | 26.9 | 28.1 | 28.7 | 28.7 | 28.7 |
| 137.5° | 19.5 | 21.2 | 22.9 | 24.1 | 24.6 | 25.2 | 25.8 | 26.4 | 26.9 | 26.9 |
| 140° | 17.8 | 19.5 | 21.2 | 22.4 | 22.9 | 23.5 | 24.1 | 24.6 | 24.6 | 24.6 |
| 142.5° | 16.6 | 17.8 | 19.5 | 20.6 | 21.2 | 21.2 | 21.8 | 22.4 | 22.4 | 22.4 |
| 145° | 14.9 | 16.1 | 17.2 | 18.3 | 18.9 | 19.5 | 20.1 | 20.1 | 20.6 | 20.6 |
| 147.5° | 13.2 | 14.3 | 15.5 | 16.6 | 17.2 | 17.2 | 17.8 | 18.3 | 18.3 | 18.3 |
| 150° | 11.5 | 12.6 | 13.8 | 14.3 | 14.9 | 14.9 | 15.5 | 16.1 | 16.1 | 16.1 |
| 152.5° | 9.7 | 10.9 | 12.0 | 12.6 | 12.6 | 13.2 | 13.8 | 13.8 | 13.8 | 13.8 |
| 155° | 8.0 | 8.6 | 9.7 | 10.3 | 10.9 | 10.9 | 11.5 | 11.5 | 11.5 | 11.5 |
| 157.5° | 5.7 | 6.9 | 7.5 | 8.6 | 8.6 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 |
| 160° | 4.6 | 5.2 | 5.7 | 6.3 | 6.9 | 6.9 | 6.9 | 7.5 | 7.5 | 7.5 |
| 162.5° | 2.9 | 3.4 | 3.4 | 4.0 | 4.6 | 4.6 | 5.2 | 5.2 | 5.2 | 5.2 |
| 165° | 1.7 | 1.7 | 2.3 | 2.3 | 2.3 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 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)