

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: P392491

Luminaire Tested: **MWL-2-18-17-UNV-L835-EDD**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P392491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-565-25 &
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MWL-2-18-17-UNV-L835-EDD
Description: MWL 2FT MEDICAL LED FIXTURE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

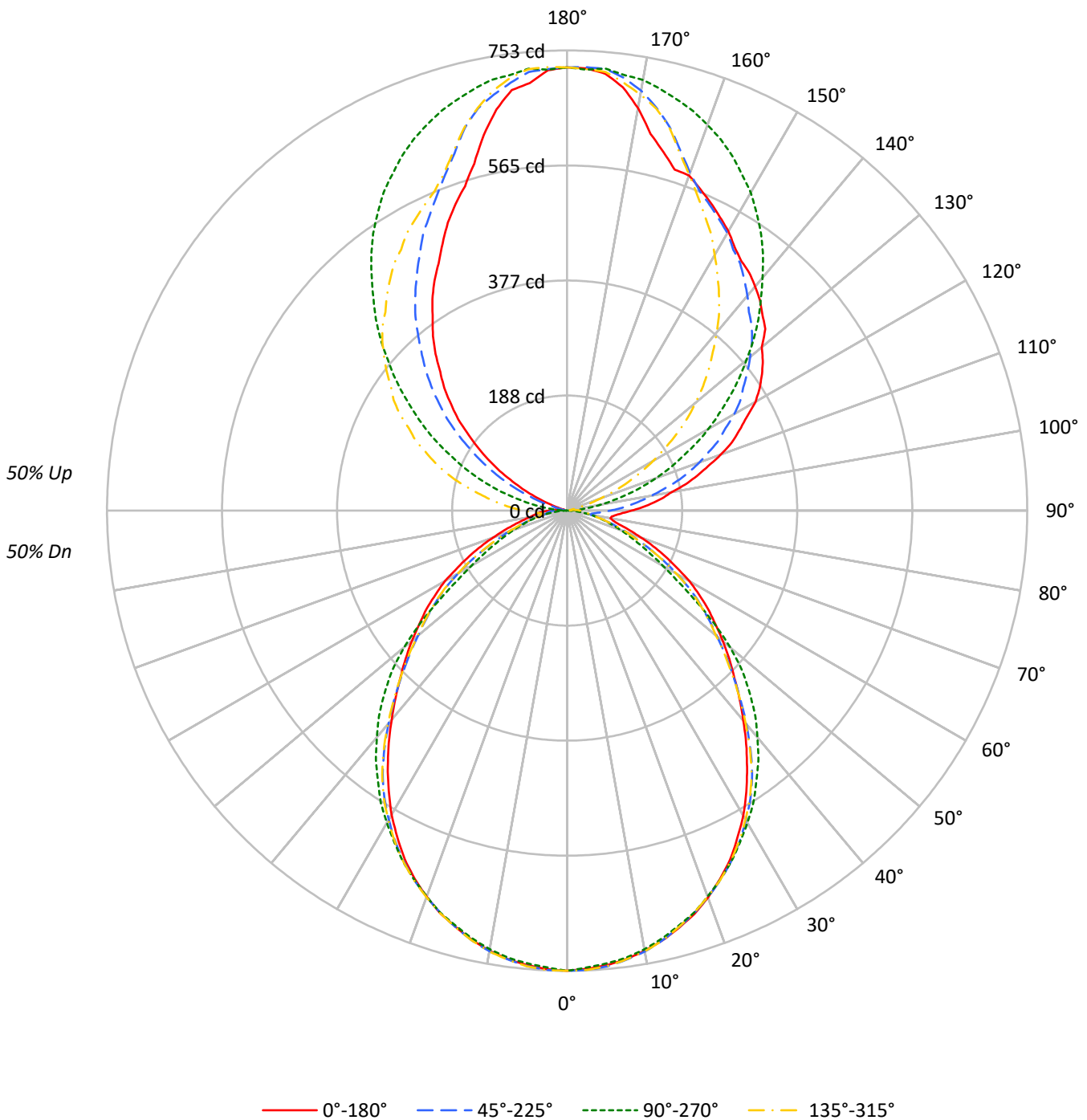
Lumens per Lamp: N/A
Luminaire Lumens: 3437.0 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.17 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 2' x H: 0.42')
CIE Type: General Diffuse

Input Watts (W): 33.2
Input Voltage (V): NR
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: P392491
CATALOG NUMBER: MWL-2-18-17-UNV-L835-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P392491

CATALOG NUMBER: MWL-2-18-17-UNV-L835-EDD

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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | | 69 | 69 | 69 | | 56 | 56 | 56 | 50 |
| 1 | 98 | 94 | 90 | 86 | 90 | 87 | 83 | 80 | 73 | 71 | 69 | | 61 | 59 | 58 | | 50 | 48 | 47 | 42 |
| 2 | 89 | 82 | 76 | 71 | 82 | 76 | 71 | 67 | 65 | 61 | 57 | | 54 | 51 | 49 | | 44 | 42 | 41 | 36 |
| 3 | 82 | 73 | 65 | 60 | 75 | 67 | 61 | 56 | 57 | 53 | 49 | | 48 | 45 | 42 | | 39 | 37 | 35 | 31 |
| 4 | 75 | 65 | 57 | 51 | 69 | 60 | 53 | 48 | 51 | 46 | 42 | | 43 | 39 | 36 | | 36 | 33 | 30 | 27 |
| 5 | 69 | 58 | 50 | 44 | 64 | 54 | 47 | 41 | 46 | 41 | 36 | | 39 | 35 | 32 | | 32 | 29 | 27 | 24 |
| 6 | 64 | 52 | 44 | 38 | 59 | 48 | 41 | 36 | 42 | 36 | 32 | | 35 | 31 | 28 | | 29 | 26 | 24 | 21 |
| 7 | 59 | 47 | 39 | 34 | 54 | 44 | 37 | 32 | 38 | 32 | 28 | | 32 | 28 | 25 | | 27 | 24 | 21 | 19 |
| 8 | 55 | 43 | 35 | 30 | 51 | 40 | 33 | 28 | 35 | 29 | 25 | | 29 | 25 | 22 | | 25 | 22 | 19 | 17 |
| 9 | 51 | 39 | 32 | 27 | 47 | 37 | 30 | 25 | 32 | 26 | 23 | | 27 | 23 | 20 | | 23 | 20 | 17 | 15 |
| 10 | 48 | 36 | 29 | 24 | 44 | 34 | 27 | 23 | 29 | 24 | 20 | | 25 | 21 | 18 | | 21 | 18 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|------|------|------|------|
| 0° | 9726 | 9726 | 9726 | 9726 |
| 5° | 9507 | 8868 | 9507 | 8868 |
| 10° | 9252 | 8127 | 9252 | 8127 |
| 15° | 8951 | 7420 | 8932 | 7420 |
| 20° | 8609 | 6774 | 8590 | 6774 |
| 25° | 8193 | 6167 | 8173 | 6167 |
| 30° | 7675 | 5579 | 7649 | 5579 |
| 35° | 7062 | 5005 | 7041 | 5005 |
| 40° | 6436 | 4438 | 6407 | 4438 |
| 45° | 5850 | 3856 | 5828 | 3856 |
| 50° | 5359 | 3192 | 5333 | 3192 |
| 55° | 4894 | 2364 | 4877 | 2364 |
| 60° | 4389 | 1715 | 4379 | 1715 |
| 65° | 3731 | 1269 | 3731 | 1269 |
| 70° | 3067 | 946 | 3079 | 946 |
| 75° | 2474 | 668 | 2513 | 668 |
| 80° | 2452 | 437 | 2117 | 437 |
| 85° | 3537 | 191 | 2078 | 191 |



TEST NUMBER: P392491

CATALOG NUMBER: MWL-2-18-17-UNV-L835-EDD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 70.8 | 2.1 |
| 10°-20° | 198.9 | 5.8 |
| 20°-30° | 290.9 | 8.5 |
| 30°-40° | 328.3 | 9.6 |
| 40°-50° | 304.7 | 8.9 |
| 50°-60° | 239.4 | 7.0 |
| 60°-70° | 151.4 | 4.4 |
| 70°-80° | 75.5 | 2.2 |
| 80°-90° | 44.7 | 1.3 |
| 90°-100° | 60.3 | 1.8 |
| 100°-110° | 112.0 | 3.3 |
| 110°-120° | 192.7 | 5.6 |
| 120°-130° | 261.5 | 7.6 |
| 130°-140° | 298.3 | 8.7 |
| 140°-150° | 297.9 | 8.7 |
| 150°-160° | 259.4 | 7.5 |
| 160°-170° | 182.4 | 5.3 |
| 170°-180° | 67.9 | 2.0 |
| 0°-30° | 560.5 | 16.3 |
| 0°-40° | 888.8 | 25.9 |
| 0°-60° | 1433.0 | 41.7 |
| 0°-90° | 1704.6 | 49.6 |
| 90°-120° | 364.9 | 10.6 |
| 90°-150° | 1222.7 | 35.6 |
| 90°-180° | 1732.0 | 50.4 |
| 0°-180° | 3437.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0° | 753 | 753 | 753 | 753 | 753 | |
| 5° | 747 | 744 | 747 | 744 | 747 | 71 |
| 15° | 707 | 704 | 705 | 704 | 707 | 199 |
| 25° | 631 | 634 | 629 | 634 | 631 | 289 |
| 35° | 513 | 540 | 512 | 540 | 513 | 321 |
| 45° | 387 | 422 | 386 | 422 | 387 | 300 |
| 55° | 282 | 255 | 281 | 255 | 282 | 252 |
| 65° | 177 | 131 | 177 | 131 | 177 | 176 |
| 75° | 88 | 63 | 90 | 63 | 88 | 98 |
| 85° | 81 | 16 | 47 | 16 | 81 | 64 |
| 90° | 105 | 0 | 29 | 0 | 105 | 58 |
| 95° | 140 | 20 | 19 | 20 | 140 | 121 |
| 105° | 220 | 102 | 4 | 102 | 220 | 232 |
| 115° | 311 | 207 | 72 | 207 | 311 | 309 |
| 125° | 389 | 324 | 177 | 324 | 389 | 348 |
| 135° | 452 | 442 | 284 | 442 | 452 | 349 |
| 145° | 498 | 553 | 384 | 553 | 498 | 314 |
| 155° | 556 | 640 | 482 | 640 | 556 | 256 |
| 165° | 608 | 696 | 588 | 696 | 608 | 172 |
| 175° | 718 | 726 | 702 | 726 | 718 | 67 |
| 180° | 725 | 725 | 725 | 725 | 725 | |



TEST NUMBER: P392491

CATALOG NUMBER: MWL-2-18-17-UNV-L835-EDD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 0° | 753.0 | 753.0 | 753.0 | 753.0 | 753.0 | 753.0 | 753.0 | 753.0 | 753.0 | 753.0 | 753.0 |
| 2.5° | 750.5 | 751.6 | 752.5 | 750.2 | 748.3 | 749.6 | 752.5 | 751.6 | 751.0 | 751.6 | 752.5 |
| 5° | 746.6 | 747.7 | 748.7 | 745.8 | 743.8 | 745.8 | 748.2 | 747.7 | 746.6 | 747.7 | 748.2 |
| 7.5° | 740.4 | 741.4 | 741.4 | 740.0 | 738.0 | 739.5 | 740.9 | 740.9 | 740.4 | 740.9 | 740.9 |
| 10° | 731.3 | 732.7 | 732.7 | 730.8 | 728.9 | 730.3 | 732.2 | 731.7 | 731.3 | 731.7 | 732.2 |
| 12.5° | 720.6 | 721.1 | 720.6 | 718.7 | 717.2 | 718.7 | 720.6 | 720.1 | 719.7 | 720.1 | 720.6 |
| 15° | 706.7 | 706.6 | 706.1 | 705.2 | 703.6 | 704.6 | 705.5 | 705.5 | 705.2 | 705.5 | 705.5 |
| 17.5° | 692.2 | 691.1 | 690.7 | 691.0 | 690.1 | 691.0 | 690.1 | 690.7 | 690.7 | 690.7 | 690.1 |
| 20° | 673.8 | 674.2 | 673.2 | 673.6 | 672.2 | 673.2 | 672.7 | 673.2 | 672.3 | 673.2 | 672.7 |
| 22.5° | 652.9 | 653.9 | 654.9 | 654.3 | 653.8 | 653.8 | 654.3 | 652.9 | 652.0 | 652.9 | 654.3 |
| 25° | 630.7 | 631.7 | 634.1 | 634.0 | 634.5 | 633.5 | 633.0 | 630.1 | 629.2 | 630.1 | 633.0 |
| 27.5° | 603.6 | 607.5 | 610.9 | 612.3 | 612.2 | 611.7 | 609.8 | 605.9 | 602.1 | 605.9 | 609.8 |
| 30° | 576.5 | 579.4 | 585.2 | 590.6 | 590.0 | 589.5 | 583.7 | 577.9 | 574.5 | 577.9 | 583.7 |
| 32.5° | 545.6 | 549.5 | 558.2 | 565.4 | 567.3 | 564.4 | 556.6 | 547.4 | 543.6 | 547.4 | 556.6 |
| 35° | 513.2 | 515.1 | 527.7 | 537.4 | 539.7 | 535.8 | 526.2 | 513.6 | 511.7 | 513.6 | 526.2 |
| 37.5° | 481.3 | 480.3 | 492.9 | 510.3 | 514.1 | 508.8 | 491.3 | 478.8 | 479.7 | 478.8 | 491.3 |
| 40° | 448.4 | 446.5 | 456.1 | 478.9 | 484.1 | 477.8 | 454.1 | 444.4 | 446.4 | 444.4 | 454.1 |
| 42.5° | 417.5 | 415.5 | 419.9 | 446.0 | 456.1 | 444.9 | 418.3 | 413.5 | 415.4 | 413.5 | 418.3 |
| 45° | 387.0 | 384.1 | 385.1 | 408.3 | 422.2 | 407.2 | 383.0 | 382.6 | 385.5 | 382.6 | 383.0 |
| 47.5° | 359.9 | 355.1 | 352.2 | 369.0 | 389.3 | 368.5 | 350.2 | 353.5 | 358.4 | 353.5 | 350.2 |
| 50° | 332.9 | 328.0 | 320.3 | 332.3 | 348.2 | 331.3 | 318.3 | 326.0 | 331.3 | 326.0 | 318.3 |
| 52.5° | 305.8 | 302.9 | 291.7 | 297.5 | 302.8 | 296.5 | 290.2 | 300.8 | 304.2 | 300.8 | 290.2 |
| 55° | 282.0 | 278.1 | 264.6 | 262.2 | 254.9 | 261.2 | 263.1 | 276.7 | 281.0 | 276.7 | 263.1 |
| 57.5° | 255.9 | 253.9 | 237.5 | 226.4 | 213.3 | 225.4 | 236.1 | 252.5 | 254.9 | 252.5 | 236.1 |
| 60° | 231.2 | 226.4 | 207.0 | 191.1 | 181.4 | 190.6 | 206.1 | 225.4 | 230.7 | 225.4 | 206.1 |
| 62.5° | 202.2 | 199.3 | 178.0 | 158.2 | 153.9 | 157.7 | 177.1 | 198.3 | 201.7 | 198.3 | 177.1 |
| 65° | 176.6 | 170.8 | 149.5 | 132.1 | 130.6 | 131.6 | 149.0 | 170.3 | 176.6 | 170.3 | 149.0 |
| 67.5° | 152.4 | 142.7 | 124.4 | 109.4 | 110.3 | 109.4 | 123.9 | 142.3 | 152.4 | 142.3 | 123.9 |
| 70° | 127.7 | 117.1 | 102.6 | 90.0 | 93.9 | 90.0 | 102.6 | 117.6 | 128.2 | 117.6 | 102.6 |
| 72.5° | 107.4 | 94.9 | 83.3 | 73.6 | 76.9 | 73.0 | 83.3 | 95.3 | 108.4 | 95.3 | 83.3 |
| 75° | 88.1 | 75.5 | 65.3 | 58.5 | 63.3 | 58.5 | 65.9 | 76.0 | 89.5 | 76.0 | 65.9 |
| 77.5° | 76.7 | 64.0 | 49.8 | 46.9 | 50.8 | 46.9 | 50.4 | 62.5 | 74.7 | 62.5 | 50.4 |
| 80° | 71.9 | 60.5 | 39.7 | 35.3 | 39.2 | 35.3 | 38.8 | 52.3 | 62.1 | 52.3 | 38.8 |
| 82.5° | 73.5 | 65.0 | 40.1 | 24.7 | 26.6 | 24.7 | 33.9 | 46.6 | 54.1 | 46.6 | 33.9 |
| 85° | 80.7 | 73.6 | 46.5 | 20.4 | 16.0 | 19.4 | 31.7 | 42.4 | 47.4 | 42.4 | 31.7 |
| 87.5° | 91.3 | 87.7 | 56.5 | 24.3 | 3.9 | 17.0 | 27.4 | 38.6 | 38.6 | 38.6 | 27.4 |
| 90° | 105.4 | 103.3 | 71.1 | 31.1 | 0.5 | 11.7 | 20.4 | 31.1 | 28.7 | 31.1 | 20.4 |
| 92.5° | 123.1 | 119.9 | 87.1 | 41.2 | 8.2 | 5.9 | 17.0 | 25.2 | 22.8 | 25.2 | 17.0 |
| 95° | 140.1 | 138.1 | 104.2 | 54.2 | 20.5 | 3.0 | 12.2 | 19.4 | 19.0 | 19.4 | 12.2 |
| 97.5° | 157.8 | 155.3 | 121.0 | 71.7 | 36.4 | 6.1 | 7.9 | 14.6 | 14.6 | 14.6 | 7.9 |
| 100° | 173.0 | 171.5 | 140.1 | 93.6 | 55.8 | 16.9 | 4.5 | 10.8 | 11.8 | 10.8 | 4.5 |
| 102.5° | 198.2 | 190.2 | 161.1 | 114.6 | 76.7 | 31.7 | 8.6 | 6.0 | 7.9 | 6.0 | 8.6 |
| 105° | 219.9 | 212.7 | 186.2 | 137.5 | 101.7 | 52.6 | 20.9 | 7.1 | 4.5 | 7.1 | 20.9 |
| 107.5° | 241.9 | 236.7 | 208.7 | 160.0 | 127.4 | 75.6 | 38.3 | 19.9 | 12.8 | 19.9 | 38.3 |
| 110° | 267.5 | 261.3 | 230.6 | 182.6 | 154.0 | 100.2 | 58.2 | 36.3 | 28.0 | 36.3 | 58.2 |



TEST NUMBER: P392491

CATALOG NUMBER: MWL-2-18-17-UNV-L835-EDD

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 112.5° | 292.0 | 287.4 | 251.1 | 206.1 | 181.5 | 126.8 | 82.8 | 56.8 | 49.0 | 56.8 | 82.8 |
| 115° | 310.9 | 308.4 | 274.6 | 228.1 | 207.1 | 156.9 | 110.0 | 80.7 | 71.6 | 80.7 | 110.0 |
| 117.5° | 330.9 | 330.3 | 292.0 | 250.6 | 237.8 | 184.1 | 135.0 | 104.8 | 95.1 | 104.8 | 135.0 |
| 120° | 356.0 | 351.9 | 316.0 | 273.1 | 267.0 | 212.7 | 162.6 | 132.4 | 122.7 | 132.4 | 162.6 |
| 122.5° | 373.4 | 370.8 | 336.5 | 294.6 | 294.6 | 241.9 | 189.2 | 159.0 | 148.8 | 159.0 | 189.2 |
| 125° | 389.2 | 388.2 | 351.9 | 316.0 | 324.2 | 269.0 | 218.8 | 188.2 | 177.0 | 188.2 | 218.8 |
| 127.5° | 403.5 | 405.1 | 371.8 | 339.6 | 354.4 | 296.6 | 248.0 | 214.3 | 202.5 | 214.3 | 248.0 |
| 130° | 415.8 | 420.9 | 390.8 | 361.1 | 383.0 | 326.8 | 274.2 | 240.4 | 232.7 | 240.4 | 274.2 |
| 132.5° | 439.8 | 436.8 | 410.2 | 383.0 | 413.8 | 354.4 | 301.7 | 266.4 | 257.7 | 266.4 | 301.7 |
| 135° | 452.1 | 453.2 | 427.0 | 402.0 | 442.4 | 382.1 | 327.8 | 293.0 | 284.3 | 293.0 | 327.8 |
| 137.5° | 467.0 | 463.9 | 440.4 | 425.0 | 469.0 | 408.7 | 353.4 | 321.2 | 307.3 | 321.2 | 353.4 |
| 140° | 478.7 | 478.2 | 458.8 | 445.5 | 497.6 | 434.8 | 380.4 | 347.7 | 334.9 | 347.7 | 380.4 |
| 142.5° | 489.9 | 493.0 | 476.1 | 467.9 | 526.3 | 462.3 | 408.6 | 372.8 | 360.5 | 372.8 | 408.6 |
| 145° | 497.6 | 504.2 | 493.5 | 497.1 | 553.4 | 494.1 | 433.1 | 396.9 | 383.5 | 396.9 | 433.1 |
| 147.5° | 510.4 | 519.1 | 506.2 | 517.1 | 576.9 | 521.1 | 457.7 | 421.9 | 410.1 | 421.9 | 457.7 |
| 150° | 527.8 | 531.9 | 524.2 | 544.6 | 601.0 | 551.3 | 482.7 | 445.9 | 434.2 | 445.9 | 482.7 |
| 152.5° | 541.5 | 546.7 | 538.0 | 574.8 | 619.9 | 579.0 | 510.4 | 469.5 | 455.7 | 469.5 | 510.4 |
| 155° | 555.9 | 558.0 | 551.8 | 604.0 | 639.9 | 606.0 | 532.4 | 495.5 | 482.3 | 495.5 | 532.4 |
| 157.5° | 569.2 | 573.3 | 566.1 | 626.0 | 657.2 | 629.5 | 557.4 | 521.6 | 509.9 | 521.6 | 557.4 |
| 160° | 583.5 | 583.5 | 587.7 | 650.6 | 671.6 | 649.1 | 584.1 | 550.2 | 533.9 | 550.2 | 584.1 |
| 162.5° | 585.1 | 594.8 | 616.8 | 668.5 | 685.3 | 667.0 | 612.7 | 570.7 | 556.4 | 570.7 | 612.7 |
| 165° | 607.6 | 616.3 | 649.6 | 684.4 | 696.1 | 682.8 | 648.0 | 604.5 | 587.7 | 604.5 | 648.0 |
| 167.5° | 631.1 | 649.6 | 675.2 | 702.3 | 706.3 | 697.6 | 674.1 | 644.9 | 629.5 | 644.9 | 674.1 |
| 170° | 668.5 | 685.3 | 697.6 | 709.9 | 715.5 | 710.4 | 691.0 | 677.1 | 666.5 | 677.1 | 691.0 |
| 172.5° | 698.7 | 708.9 | 714.1 | 722.2 | 718.6 | 716.5 | 706.3 | 699.2 | 694.0 | 699.2 | 706.3 |
| 175° | 717.6 | 719.7 | 725.2 | 722.7 | 725.8 | 720.1 | 720.6 | 723.2 | 702.3 | 723.2 | 720.6 |
| 177.5° | 724.2 | 727.8 | 726.2 | 721.6 | 722.2 | 721.1 | 723.1 | 724.2 | 721.2 | 724.2 | 723.1 |
| 180° | 725.2 | 725.2 | 725.2 | 725.2 | 725.2 | 725.2 | 725.2 | 725.2 | 725.2 | 725.2 | 725.2 |



TEST NUMBER: P392491

CATALOG NUMBER: MWL-2-18-17-UNV-L835-EDD

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|-------|--------|-------|--------|-------|
| 0° | 753.0 | 753.0 | 753.0 | 753.0 | 753.0 | 753.0 |
| 2.5° | 749.6 | 748.3 | 750.2 | 752.5 | 751.6 | 750.5 |
| 5° | 745.8 | 743.8 | 745.8 | 748.7 | 747.7 | 746.6 |
| 7.5° | 739.5 | 738.0 | 740.0 | 741.4 | 741.4 | 740.4 |
| 10° | 730.3 | 728.9 | 730.8 | 732.7 | 732.7 | 731.3 |
| 12.5° | 718.7 | 717.2 | 718.7 | 720.6 | 721.1 | 720.6 |
| 15° | 704.6 | 703.6 | 705.2 | 706.1 | 706.6 | 706.7 |
| 17.5° | 691.0 | 690.1 | 691.0 | 690.7 | 691.1 | 692.2 |
| 20° | 673.2 | 672.2 | 673.6 | 673.2 | 674.2 | 673.8 |
| 22.5° | 653.8 | 653.8 | 654.3 | 654.9 | 653.9 | 652.9 |
| 25° | 633.5 | 634.5 | 634.0 | 634.1 | 631.7 | 630.7 |
| 27.5° | 611.7 | 612.2 | 612.3 | 610.9 | 607.5 | 603.6 |
| 30° | 589.5 | 590.0 | 590.6 | 585.2 | 579.4 | 576.5 |
| 32.5° | 564.4 | 567.3 | 565.4 | 558.2 | 549.5 | 545.6 |
| 35° | 535.8 | 539.7 | 537.4 | 527.7 | 515.1 | 513.2 |
| 37.5° | 508.8 | 514.1 | 510.3 | 492.9 | 480.3 | 481.3 |
| 40° | 477.8 | 484.1 | 478.9 | 456.1 | 446.5 | 448.4 |
| 42.5° | 444.9 | 456.1 | 446.0 | 419.9 | 415.5 | 417.5 |
| 45° | 407.2 | 422.2 | 408.3 | 385.1 | 384.1 | 387.0 |
| 47.5° | 368.5 | 389.3 | 369.0 | 352.2 | 355.1 | 359.9 |
| 50° | 331.3 | 348.2 | 332.3 | 320.3 | 328.0 | 332.9 |
| 52.5° | 296.5 | 302.8 | 297.5 | 291.7 | 302.9 | 305.8 |
| 55° | 261.2 | 254.9 | 262.2 | 264.6 | 278.1 | 282.0 |
| 57.5° | 225.4 | 213.3 | 226.4 | 237.5 | 253.9 | 255.9 |
| 60° | 190.6 | 181.4 | 191.1 | 207.0 | 226.4 | 231.2 |
| 62.5° | 157.7 | 153.9 | 158.2 | 178.0 | 199.3 | 202.2 |
| 65° | 131.6 | 130.6 | 132.1 | 149.5 | 170.8 | 176.6 |
| 67.5° | 109.4 | 110.3 | 109.4 | 124.4 | 142.7 | 152.4 |
| 70° | 90.0 | 93.9 | 90.0 | 102.6 | 117.1 | 127.7 |
| 72.5° | 73.0 | 76.9 | 73.6 | 83.3 | 94.9 | 107.4 |
| 75° | 58.5 | 63.3 | 58.5 | 65.3 | 75.5 | 88.1 |
| 77.5° | 46.9 | 50.8 | 46.9 | 49.8 | 64.0 | 76.7 |
| 80° | 35.3 | 39.2 | 35.3 | 39.7 | 60.5 | 71.9 |
| 82.5° | 24.7 | 26.6 | 24.7 | 40.1 | 65.0 | 73.5 |
| 85° | 19.4 | 16.0 | 20.4 | 46.5 | 73.6 | 80.7 |
| 87.5° | 17.0 | 3.9 | 24.3 | 56.5 | 87.7 | 91.3 |
| 90° | 11.7 | 0.5 | 31.1 | 71.1 | 103.3 | 105.4 |
| 92.5° | 5.9 | 8.2 | 41.2 | 87.1 | 119.9 | 123.1 |
| 95° | 3.0 | 20.5 | 54.2 | 104.2 | 138.1 | 140.1 |
| 97.5° | 6.1 | 36.4 | 71.7 | 121.0 | 155.3 | 157.8 |
| 100° | 16.9 | 55.8 | 93.6 | 140.1 | 171.5 | 173.0 |
| 102.5° | 31.7 | 76.7 | 114.6 | 161.1 | 190.2 | 198.2 |
| 105° | 52.6 | 101.7 | 137.5 | 186.2 | 212.7 | 219.9 |
| 107.5° | 75.6 | 127.4 | 160.0 | 208.7 | 236.7 | 241.9 |
| 110° | 100.2 | 154.0 | 182.6 | 230.6 | 261.3 | 267.5 |



TEST NUMBER: P392491

CATALOG NUMBER: MWL-2-18-17-UNV-L835-EDD

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|-------|--------|-------|--------|-------|
| 112.5° | 126.8 | 181.5 | 206.1 | 251.1 | 287.4 | 292.0 |
| 115° | 156.9 | 207.1 | 228.1 | 274.6 | 308.4 | 310.9 |
| 117.5° | 184.1 | 237.8 | 250.6 | 292.0 | 330.3 | 330.9 |
| 120° | 212.7 | 267.0 | 273.1 | 316.0 | 351.9 | 356.0 |
| 122.5° | 241.9 | 294.6 | 294.6 | 336.5 | 370.8 | 373.4 |
| 125° | 269.0 | 324.2 | 316.0 | 351.9 | 388.2 | 389.2 |
| 127.5° | 296.6 | 354.4 | 339.6 | 371.8 | 405.1 | 403.5 |
| 130° | 326.8 | 383.0 | 361.1 | 390.8 | 420.9 | 415.8 |
| 132.5° | 354.4 | 413.8 | 383.0 | 410.2 | 436.8 | 439.8 |
| 135° | 382.1 | 442.4 | 402.0 | 427.0 | 453.2 | 452.1 |
| 137.5° | 408.7 | 469.0 | 425.0 | 440.4 | 463.9 | 467.0 |
| 140° | 434.8 | 497.6 | 445.5 | 458.8 | 478.2 | 478.7 |
| 142.5° | 462.3 | 526.3 | 467.9 | 476.1 | 493.0 | 489.9 |
| 145° | 494.1 | 553.4 | 497.1 | 493.5 | 504.2 | 497.6 |
| 147.5° | 521.1 | 576.9 | 517.1 | 506.2 | 519.1 | 510.4 |
| 150° | 551.3 | 601.0 | 544.6 | 524.2 | 531.9 | 527.8 |
| 152.5° | 579.0 | 619.9 | 574.8 | 538.0 | 546.7 | 541.5 |
| 155° | 606.0 | 639.9 | 604.0 | 551.8 | 558.0 | 555.9 |
| 157.5° | 629.5 | 657.2 | 626.0 | 566.1 | 573.3 | 569.2 |
| 160° | 649.1 | 671.6 | 650.6 | 587.7 | 583.5 | 583.5 |
| 162.5° | 667.0 | 685.3 | 668.5 | 616.8 | 594.8 | 585.1 |
| 165° | 682.8 | 696.1 | 684.4 | 649.6 | 616.3 | 607.6 |
| 167.5° | 697.6 | 706.3 | 702.3 | 675.2 | 649.6 | 631.1 |
| 170° | 710.4 | 715.5 | 709.9 | 697.6 | 685.3 | 668.5 |
| 172.5° | 716.5 | 718.6 | 722.2 | 714.1 | 708.9 | 698.7 |
| 175° | 720.1 | 725.8 | 722.7 | 725.2 | 719.7 | 717.6 |
| 177.5° | 721.1 | 722.2 | 721.6 | 726.2 | 727.8 | 724.2 |
| 180° | 725.2 | 725.2 | 725.2 | 725.2 | 725.2 | 725.2 |

(END OF REPORT)