

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: P835266

Luminaire Tested: **ORLG-24-2-INS-ASY2-LD4-2HI-20-120-EDD-90**

Issue Date: 5/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P835266  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ORLG-24-2-INS-ASY2-LD4-2HI-20-120-EDD-90  
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2  
Light Source: 2000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

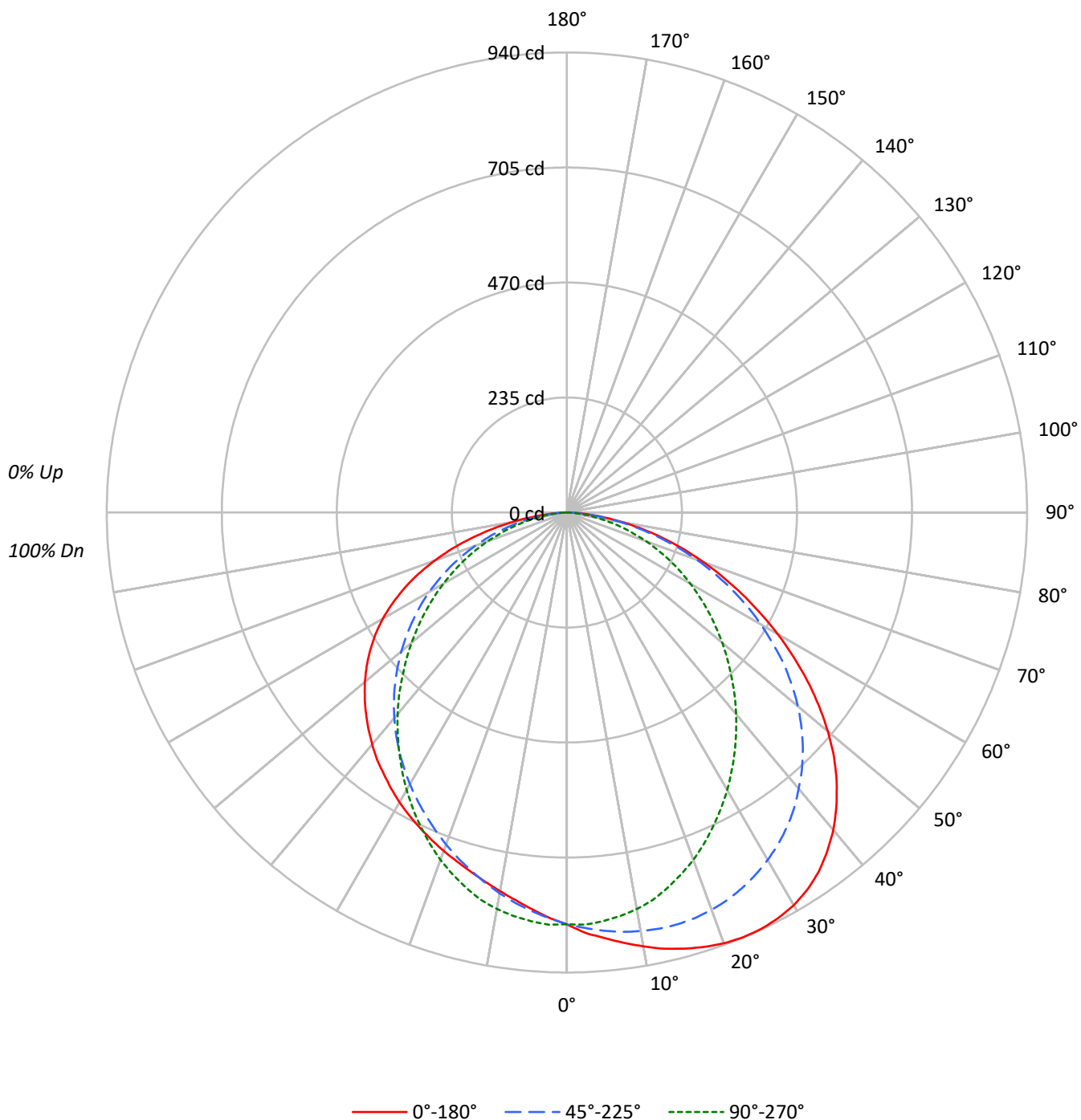
Lumens per Lamp: N/A  
Luminaire Lumens: 2474.6 lumens  
Efficiency: N/A  
Efficacy: 56.2 lumens/watt  
Spacing Criteria (0/90/45): 1.41 / 1.17 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
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: 28.75 FT

TEST NUMBER: P835266

CATALOG NUMBER: ORLG-24-2-INS-ASY2-LD4-2HI-20-120-EDD-90

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835266

CATALOG NUMBER: ORLG-24-2-INS-ASY2-LD4-2HI-20-120-EDD-90

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  | 94  | 91  | 88  | 90  | 88  | 86  | 84  |    |    |
| 2   | 99  | 90  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  | 82  | 77  | 73  | 79  | 75  | 72  | 70  |    |    |
| 3   | 90  | 79  | 71  | 65  | 87  | 78  | 70  | 64  | 75  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 61  | 58  |    |    |
| 4   | 82  | 70  | 61  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 53  | 64  | 58  | 53  | 62  | 56  | 52  | 50  |    |    |
| 5   | 76  | 63  | 54  | 47  | 73  | 61  | 53  | 47  | 59  | 52  | 46  | 57  | 51  | 46  | 55  | 50  | 45  | 43  |    |    |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 40  | 37  |    |    |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 33  |    |    |
| 8   | 60  | 46  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 26  |    |    |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 26  | 24  |    |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 90°  | 180° |
|-----|------|------|------|
| 0°  | 2264 | 2264 | 2264 |
| 5°  | 2357 | 2265 | 2198 |
| 10° | 2460 | 2248 | 2147 |
| 15° | 2571 | 2212 | 2116 |
| 20° | 2683 | 2163 | 2107 |
| 25° | 2788 | 2100 | 2111 |
| 30° | 2879 | 2035 | 2124 |
| 35° | 2945 | 1962 | 2142 |
| 40° | 2975 | 1890 | 2174 |
| 45° | 2966 | 1810 | 2209 |
| 50° | 2914 | 1734 | 2255 |
| 55° | 2814 | 1654 | 2302 |
| 60° | 2677 | 1569 | 2336 |
| 65° | 2514 | 1473 | 2334 |
| 70° | 2339 | 1359 | 2264 |
| 75° | 2124 | 1193 | 2088 |
| 80° | 1824 | 981  | 1760 |
| 85° | 1392 | 670  | 1210 |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835266

CATALOG NUMBER: ORLG-24-2-INS-ASY2-LD4-2HI-20-120-EDD-90

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 79.8   | 3.2       |
| 10°-20°   | 230.4  | 9.3       |
| 20°-30°   | 353.0  | 14.3      |
| 30°-40°   | 430.8  | 17.4      |
| 40°-50°   | 450.5  | 18.2      |
| 50°-60°   | 407.7  | 16.5      |
| 60°-70°   | 308.8  | 12.5      |
| 70°-80°   | 172.1  | 7.0       |
| 80°-90°   | 41.5   | 1.7       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 663.2  | 26.8      |
| 0°-40°    | 1094.0 | 44.2      |
| 0°-60°    | 1952.2 | 78.9      |
| 0°-90°    | 2474.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2474.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 841 | 841 | 841 | 841  | 841  |      |
| 5°  | 872 | 858 | 838 | 818  | 814  | 84   |
| 15° | 923 | 871 | 794 | 757  | 760  | 262  |
| 25° | 939 | 847 | 707 | 682  | 711  | 433  |
| 35° | 896 | 784 | 597 | 596  | 652  | 560  |
| 45° | 780 | 682 | 476 | 496  | 580  | 600  |
| 55° | 600 | 542 | 352 | 384  | 491  | 535  |
| 65° | 395 | 371 | 231 | 263  | 366  | 392  |
| 75° | 204 | 193 | 115 | 137  | 201  | 217  |
| 85° | 45  | 40  | 22  | 29   | 39   | 54   |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 841.3 | 841.3 | 841.3 | 841.3 | 841.3 | 841.3 | 841.3 | 841.3 | 841.3 | 841.3 | 841.3 |
| 2.5°  | 859.8 | 855.8 | 852.5 | 853.8 | 854.5 | 851.9 | 849.7 | 850.1 | 847.9 | 852.1 | 842.2 |
| 5°    | 872.5 | 868.8 | 865.0 | 866.5 | 865.0 | 861.1 | 858.0 | 857.1 | 851.2 | 853.6 | 843.5 |
| 7.5°  | 886.7 | 882.6 | 876.9 | 878.6 | 875.5 | 868.3 | 864.3 | 861.9 | 852.8 | 853.0 | 841.8 |
| 10°   | 900.3 | 896.8 | 889.1 | 890.2 | 884.5 | 874.9 | 868.5 | 865.2 | 852.5 | 850.6 | 839.1 |
| 12.5° | 913.0 | 908.2 | 899.9 | 900.5 | 892.2 | 879.5 | 871.2 | 866.5 | 849.9 | 844.4 | 833.0 |
| 15°   | 922.7 | 918.1 | 908.2 | 908.0 | 897.3 | 880.8 | 871.4 | 864.8 | 843.8 | 835.2 | 823.2 |
| 17.5° | 931.0 | 926.8 | 914.5 | 914.1 | 901.2 | 880.2 | 869.0 | 860.8 | 835.0 | 824.3 | 811.1 |
| 20°   | 936.9 | 932.7 | 918.9 | 917.6 | 902.1 | 877.5 | 864.1 | 853.6 | 823.4 | 810.7 | 796.0 |
| 22.5° | 939.6 | 935.4 | 919.8 | 917.9 | 899.9 | 872.0 | 856.9 | 844.6 | 810.2 | 793.6 | 778.4 |
| 25°   | 939.1 | 935.0 | 917.4 | 915.6 | 895.7 | 863.7 | 846.8 | 832.6 | 793.5 | 774.0 | 758.9 |
| 27.5° | 934.5 | 931.4 | 912.8 | 910.4 | 888.0 | 852.5 | 834.5 | 818.8 | 774.9 | 753.2 | 736.8 |
| 30°   | 926.6 | 924.2 | 904.5 | 902.3 | 878.4 | 840.2 | 820.1 | 802.1 | 754.8 | 730.4 | 713.8 |
| 32.5° | 913.9 | 911.7 | 891.8 | 889.8 | 865.5 | 824.3 | 803.4 | 784.8 | 733.0 | 705.9 | 689.4 |
| 35°   | 896.4 | 895.1 | 875.8 | 873.6 | 849.0 | 806.3 | 784.1 | 763.7 | 710.2 | 679.6 | 663.8 |
| 37.5° | 873.4 | 873.4 | 854.9 | 852.5 | 828.4 | 784.3 | 762.4 | 740.7 | 684.4 | 652.0 | 636.4 |
| 40°   | 846.8 | 849.2 | 830.2 | 827.8 | 804.5 | 760.5 | 736.6 | 713.8 | 656.6 | 623.0 | 607.7 |
| 42.5° | 814.8 | 817.0 | 801.2 | 799.0 | 777.1 | 733.1 | 710.9 | 686.1 | 627.6 | 593.4 | 577.6 |
| 45°   | 779.5 | 782.4 | 768.3 | 766.6 | 746.2 | 703.2 | 681.8 | 656.6 | 597.3 | 562.5 | 547.1 |
| 47.5° | 740.1 | 744.0 | 731.7 | 730.8 | 711.8 | 672.5 | 650.2 | 624.7 | 565.4 | 530.3 | 515.8 |
| 50°   | 696.0 | 701.5 | 691.4 | 691.4 | 674.5 | 635.3 | 616.0 | 590.4 | 532.3 | 497.2 | 482.9 |
| 52.5° | 648.7 | 655.7 | 648.2 | 648.4 | 634.6 | 599.5 | 579.4 | 554.4 | 497.8 | 463.2 | 450.0 |
| 55°   | 599.8 | 606.6 | 601.8 | 602.6 | 591.7 | 559.7 | 541.5 | 516.7 | 462.5 | 428.8 | 416.3 |
| 57.5° | 548.7 | 556.1 | 552.9 | 554.4 | 546.9 | 518.2 | 499.2 | 477.5 | 426.1 | 392.8 | 382.1 |
| 60°   | 497.4 | 504.4 | 502.7 | 504.8 | 500.0 | 475.2 | 457.9 | 435.4 | 389.5 | 357.5 | 348.1 |
| 62.5° | 445.5 | 452.0 | 451.6 | 453.8 | 451.2 | 430.7 | 415.2 | 396.1 | 351.6 | 322.2 | 313.5 |
| 65°   | 394.8 | 400.3 | 399.9 | 402.3 | 401.8 | 385.2 | 371.3 | 353.8 | 313.7 | 286.7 | 279.1 |
| 67.5° | 345.5 | 350.1 | 348.8 | 351.6 | 352.3 | 339.1 | 326.9 | 311.3 | 277.7 | 251.4 | 244.9 |
| 70°   | 297.3 | 300.5 | 298.8 | 300.6 | 302.3 | 292.4 | 282.1 | 268.3 | 239.2 | 216.1 | 210.7 |
| 72.5° | 250.1 | 252.3 | 249.7 | 251.6 | 253.0 | 245.9 | 237.4 | 225.4 | 201.4 | 181.3 | 176.9 |
| 75°   | 204.3 | 207.4 | 202.1 | 203.9 | 205.0 | 197.9 | 192.9 | 183.1 | 162.4 | 146.9 | 144.0 |
| 77.5° | 160.0 | 161.8 | 158.9 | 158.1 | 158.9 | 153.7 | 149.9 | 142.3 | 126.7 | 114.0 | 112.2 |
| 80°   | 117.7 | 118.8 | 115.8 | 115.1 | 115.7 | 112.0 | 109.0 | 103.5 | 92.5  | 82.9  | 82.2  |
| 82.5° | 78.9  | 79.4  | 76.9  | 76.1  | 76.5  | 75.4  | 71.9  | 68.0  | 62.9  | 54.8  | 54.6  |
| 85°   | 45.1  | 45.1  | 43.2  | 42.5  | 42.8  | 41.0  | 39.7  | 37.7  | 35.7  | 30.2  | 30.5  |
| 87.5° | 16.5  | 16.5  | 15.6  | 15.4  | 17.3  | 15.3  | 14.7  | 13.8  | 14.3  | 11.4  | 12.1  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

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**CANDELA DISTRIBUTION (continued):**

|       | 80°   | 90°   | 100°  | 110°  | 112.5° | 120°  | 130°  | 135°  | 140°  | 150°  | 157.5° |
|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|--------|
| 0°    | 841.3 | 841.3 | 841.3 | 841.3 | 841.3  | 841.3 | 841.3 | 841.3 | 841.3 | 841.3 | 841.3  |
| 2.5°  | 844.9 | 843.1 | 841.4 | 835.7 | 838.1  | 832.3 | 831.9 | 829.7 | 828.0 | 824.9 | 828.9  |
| 5°    | 842.2 | 838.5 | 833.7 | 826.9 | 828.9  | 822.0 | 820.5 | 817.9 | 815.7 | 811.7 | 814.8  |
| 7.5°  | 837.8 | 831.7 | 824.2 | 815.5 | 818.3  | 809.6 | 807.4 | 804.7 | 802.8 | 798.1 | 800.8  |
| 10°   | 831.3 | 822.7 | 813.9 | 803.4 | 805.4  | 796.0 | 793.3 | 790.3 | 788.7 | 784.4 | 787.2  |
| 12.5° | 821.4 | 810.9 | 799.0 | 787.6 | 789.8  | 781.0 | 777.3 | 774.1 | 773.6 | 770.1 | 773.4  |
| 15°   | 808.5 | 794.0 | 781.7 | 769.6 | 772.1  | 761.8 | 760.2 | 757.0 | 758.0 | 755.6 | 759.6  |
| 17.5° | 792.2 | 775.4 | 762.0 | 749.0 | 751.5  | 742.9 | 741.6 | 740.1 | 741.0 | 740.7 | 745.1  |
| 20°   | 773.8 | 755.4 | 739.9 | 727.1 | 728.5  | 721.7 | 722.3 | 721.9 | 723.8 | 725.8 | 731.9  |
| 22.5° | 753.0 | 732.2 | 716.0 | 702.8 | 705.0  | 699.1 | 701.7 | 702.4 | 705.6 | 710.2 | 717.9  |
| 25°   | 729.6 | 707.4 | 690.5 | 678.0 | 680.0  | 676.1 | 680.6 | 682.4 | 687.4 | 695.1 | 703.0  |
| 27.5° | 705.2 | 681.7 | 663.6 | 651.7 | 655.5  | 651.7 | 658.3 | 662.0 | 669.5 | 678.0 | 687.7  |
| 30°   | 679.3 | 654.8 | 636.2 | 625.6 | 629.2  | 625.8 | 636.4 | 641.4 | 648.9 | 660.5 | 672.1  |
| 32.5° | 652.0 | 626.3 | 608.1 | 599.8 | 602.4  | 601.8 | 613.8 | 619.3 | 629.4 | 642.7 | 655.0  |
| 35°   | 624.1 | 597.3 | 578.9 | 571.9 | 575.0  | 575.7 | 590.1 | 596.5 | 607.5 | 623.5 | 636.8  |
| 37.5° | 595.2 | 567.8 | 549.8 | 544.1 | 546.9  | 549.6 | 566.4 | 572.8 | 585.3 | 602.8 | 617.3  |
| 40°   | 565.3 | 537.9 | 520.2 | 515.6 | 518.4  | 521.3 | 539.5 | 548.3 | 561.9 | 580.9 | 596.7  |
| 42.5° | 534.9 | 507.5 | 490.4 | 487.1 | 489.9  | 495.6 | 514.9 | 523.1 | 537.5 | 558.5 | 575.9  |
| 45°   | 504.0 | 475.5 | 460.6 | 458.1 | 461.0  | 467.6 | 486.6 | 496.5 | 511.7 | 534.7 | 553.5  |
| 47.5° | 472.8 | 445.0 | 430.8 | 429.2 | 432.1  | 439.5 | 460.4 | 469.5 | 485.6 | 510.1 | 530.3  |
| 50°   | 441.1 | 414.1 | 400.5 | 399.9 | 402.7  | 410.6 | 430.7 | 441.3 | 458.1 | 485.5 | 506.2  |
| 52.5° | 409.1 | 383.2 | 370.9 | 370.9 | 373.5  | 381.6 | 401.8 | 412.8 | 430.1 | 459.0 | 482.0  |
| 55°   | 377.1 | 352.5 | 340.7 | 341.7 | 345.3  | 352.3 | 372.0 | 383.6 | 401.0 | 431.0 | 455.3  |
| 57.5° | 345.1 | 321.8 | 311.1 | 312.4 | 315.9  | 322.9 | 342.2 | 355.3 | 371.1 | 402.2 | 427.0  |
| 60°   | 313.5 | 291.5 | 282.1 | 283.5 | 286.7  | 293.7 | 313.7 | 324.9 | 340.7 | 372.4 | 397.2  |
| 62.5° | 281.5 | 261.5 | 252.7 | 254.5 | 257.3  | 264.2 | 283.2 | 294.0 | 309.7 | 340.7 | 365.7  |
| 65°   | 249.9 | 231.3 | 223.8 | 225.6 | 228.2  | 234.6 | 252.5 | 263.0 | 277.8 | 308.2 | 332.1  |
| 67.5° | 218.6 | 201.7 | 195.5 | 197.3 | 199.3  | 205.4 | 220.1 | 231.5 | 245.5 | 274.4 | 297.0  |
| 70°   | 187.7 | 172.7 | 167.1 | 169.0 | 170.8  | 176.3 | 189.2 | 199.7 | 212.6 | 239.0 | 260.0  |
| 72.5° | 157.2 | 142.5 | 139.8 | 141.4 | 142.9  | 147.7 | 160.0 | 168.3 | 179.5 | 203.0 | 221.0  |
| 75°   | 127.4 | 114.7 | 112.9 | 114.6 | 115.8  | 119.5 | 129.8 | 137.0 | 146.4 | 166.8 | 181.5  |
| 77.5° | 98.7  | 88.1  | 87.3  | 88.6  | 89.9   | 92.5  | 100.6 | 108.1 | 115.5 | 130.6 | 143.6  |
| 80°   | 71.9  | 63.3  | 63.3  | 64.5  | 64.2   | 67.3  | 73.0  | 79.1  | 84.4  | 95.3  | 104.8  |
| 82.5° | 47.4  | 40.6  | 41.6  | 42.5  | 43.0   | 44.3  | 47.8  | 52.4  | 55.7  | 62.3  | 68.6   |
| 85°   | 26.3  | 21.7  | 22.6  | 23.4  | 23.0   | 24.5  | 26.3  | 29.1  | 30.7  | 33.8  | 37.1   |
| 87.5° | 9.7   | 8.1   | 8.3   | 8.8   | 9.2    | 9.9   | 9.9   | 11.6  | 11.8  | 12.1  | 12.9   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |

TEST NUMBER: P835266

CATALOG NUMBER: ORLG-24-2-INS-ASY2-LD4-2HI-20-120-EDD-90

**CANDELA DISTRIBUTION (continued):**

|       | 160°  | 170°  | 180°  |
|-------|-------|-------|-------|
| 0°    | 841.3 | 841.3 | 841.3 |
| 2.5°  | 821.2 | 825.6 | 828.9 |
| 5°    | 807.1 | 810.7 | 813.7 |
| 7.5°  | 793.3 | 796.6 | 799.2 |
| 10°   | 780.2 | 783.9 | 785.7 |
| 12.5° | 766.8 | 771.0 | 772.5 |
| 15°   | 753.6 | 757.8 | 759.6 |
| 17.5° | 739.9 | 745.5 | 747.5 |
| 20°   | 727.3 | 734.2 | 735.9 |
| 22.5° | 714.4 | 721.6 | 723.6 |
| 25°   | 700.4 | 708.9 | 710.9 |
| 27.5° | 685.5 | 695.6 | 697.7 |
| 30°   | 670.6 | 681.7 | 683.7 |
| 32.5° | 654.6 | 666.6 | 668.4 |
| 35°   | 637.9 | 649.8 | 652.0 |
| 37.5° | 619.3 | 632.4 | 636.8 |
| 40°   | 600.0 | 614.2 | 618.8 |
| 42.5° | 579.8 | 595.2 | 600.0 |
| 45°   | 558.1 | 575.0 | 580.5 |
| 47.5° | 536.2 | 555.3 | 560.1 |
| 50°   | 512.5 | 532.9 | 538.6 |
| 52.5° | 487.7 | 509.9 | 515.6 |
| 55°   | 461.9 | 484.3 | 490.6 |
| 57.5° | 434.0 | 457.1 | 463.8 |
| 60°   | 404.7 | 427.9 | 434.1 |
| 62.5° | 374.8 | 395.7 | 401.8 |
| 65°   | 341.3 | 361.0 | 366.5 |
| 67.5° | 305.8 | 323.8 | 328.4 |
| 70°   | 268.1 | 283.7 | 287.8 |
| 72.5° | 228.8 | 239.6 | 244.9 |
| 75°   | 188.1 | 196.8 | 200.8 |
| 77.5° | 147.3 | 153.4 | 156.7 |
| 80°   | 107.4 | 110.9 | 113.6 |
| 82.5° | 70.2  | 71.7  | 73.7  |
| 85°   | 37.9  | 37.9  | 39.2  |
| 87.5° | 12.9  | 12.3  | 12.9  |
| 90°   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)