

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: P837914

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-2LO-50-120-EDD**

Issue Date: 5/21/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P837914  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 5/21/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ORLG-24-2-INS-ASY2R-LD4-2LO-50-120-EDD  
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and  
RFI grid  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

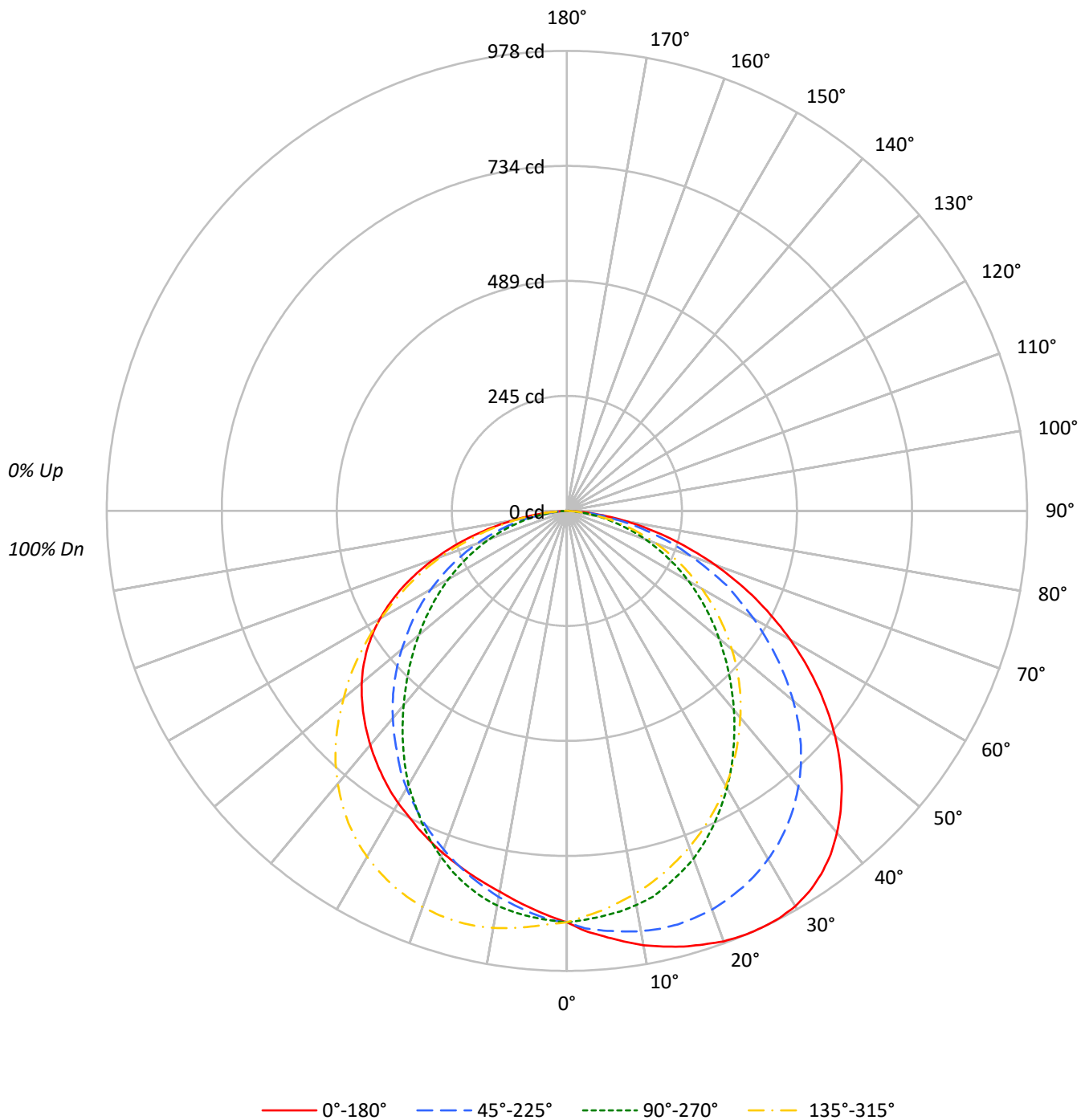
Lumens per Lamp: N/A  
Luminaire Lumens: 2566.0 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
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: P837914

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-2LO-50-120-EDD

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837914

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-2LO-50-120-EDD

**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  | 89  | 90  | 88  | 86  | 84  |    |    |
| 2   | 99  | 91  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  | 82  | 77  | 73  | 79  | 75  | 72  | 70  |    |    |
| 3   | 90  | 79  | 71  | 65  | 88  | 78  | 70  | 64  | 75  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 61  | 59  |    |    |
| 4   | 82  | 70  | 61  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 53  | 64  | 58  | 53  | 62  | 56  | 52  | 50  |    |    |
| 5   | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 59  | 52  | 46  | 57  | 51  | 46  | 56  | 50  | 45  | 43  |    |    |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 40  | 38  |    |    |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 33  |    |    |
| 8   | 60  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 45  | 37  | 32  | 43  | 37  | 32  | 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° | 270° |
|-----|------|------|------|------|
| 0°  | 2354 | 2354 | 2354 | 2354 |
| 5°  | 2453 | 2337 | 2293 | 2341 |
| 10° | 2562 | 2325 | 2246 | 2328 |
| 15° | 2672 | 2295 | 2224 | 2296 |
| 20° | 2789 | 2253 | 2214 | 2241 |
| 25° | 2904 | 2190 | 2214 | 2168 |
| 30° | 3016 | 2114 | 2229 | 2091 |
| 35° | 3097 | 2028 | 2251 | 1995 |
| 40° | 3138 | 1940 | 2283 | 1896 |
| 45° | 3144 | 1852 | 2327 | 1805 |
| 50° | 3114 | 1767 | 2384 | 1720 |
| 55° | 3050 | 1688 | 2437 | 1642 |
| 60° | 2954 | 1607 | 2469 | 1565 |
| 65° | 2821 | 1512 | 2457 | 1477 |
| 70° | 2636 | 1401 | 2369 | 1375 |
| 75° | 2372 | 1250 | 2174 | 1243 |
| 80° | 2011 | 1046 | 1827 | 1062 |
| 85° | 1399 | 692  | 1158 | 713  |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837914

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-2LO-50-120-EDD

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 83.0   | 3.2       |
| 10°-20°   | 240.5  | 9.4       |
| 20°-30°   | 368.5  | 14.4      |
| 30°-40°   | 448.1  | 17.5      |
| 40°-50°   | 465.8  | 18.2      |
| 50°-60°   | 420.8  | 16.4      |
| 60°-70°   | 319.9  | 12.5      |
| 70°-80°   | 178.3  | 7.0       |
| 80°-90°   | 41.1   | 1.6       |
| 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°    | 692.0  | 27.0      |
| 0°-40°    | 1140.1 | 44.4      |
| 0°-60°    | 2026.7 | 79.0      |
| 0°-90°    | 2566.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2566.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 90° | 180° | 270° | 360° | Flux |
|-----|-----|-----|------|------|------|------|
| 0°  | 875 | 875 | 875  | 875  | 875  |      |
| 5°  | 908 | 865 | 849  | 866  | 908  | 88   |
| 15° | 959 | 824 | 798  | 824  | 959  | 272  |
| 25° | 978 | 738 | 746  | 730  | 978  | 452  |
| 35° | 943 | 617 | 685  | 607  | 943  | 589  |
| 45° | 826 | 487 | 611  | 474  | 826  | 636  |
| 55° | 650 | 360 | 519  | 350  | 650  | 580  |
| 65° | 443 | 238 | 386  | 232  | 443  | 438  |
| 75° | 228 | 120 | 209  | 120  | 228  | 242  |
| 85° | 45  | 22  | 38   | 23   | 45   | 57   |
| 90° | 0   | 0   | 0    | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 |
| 2.5°  | 894.0 | 880.9 | 881.2 | 892.6 | 883.8 | 888.1 | 875.8 | 880.5 | 879.1 | 880.1 | 870.1 |
| 5°    | 908.1 | 894.0 | 893.8 | 903.6 | 893.8 | 895.6 | 880.1 | 883.2 | 878.7 | 875.8 | 865.0 |
| 7.5°  | 923.0 | 908.9 | 907.5 | 916.0 | 903.2 | 901.8 | 884.6 | 884.6 | 876.5 | 869.3 | 859.1 |
| 10°   | 937.7 | 923.2 | 921.3 | 927.9 | 912.0 | 907.3 | 886.5 | 883.2 | 872.4 | 861.8 | 850.8 |
| 12.5° | 948.7 | 934.0 | 932.6 | 936.6 | 918.7 | 910.1 | 886.5 | 880.1 | 864.2 | 849.3 | 840.8 |
| 15°   | 959.1 | 944.0 | 940.1 | 942.2 | 921.5 | 910.1 | 883.6 | 873.8 | 853.4 | 833.8 | 823.8 |
| 17.5° | 966.4 | 951.9 | 948.1 | 947.9 | 923.0 | 906.7 | 877.5 | 864.0 | 839.5 | 815.9 | 805.9 |
| 20°   | 973.8 | 959.3 | 954.4 | 950.7 | 922.6 | 902.0 | 868.5 | 850.3 | 821.8 | 795.3 | 786.9 |
| 22.5° | 977.4 | 962.6 | 957.3 | 951.7 | 919.9 | 893.4 | 857.5 | 834.4 | 801.8 | 770.2 | 763.2 |
| 25°   | 978.1 | 962.8 | 957.0 | 949.1 | 914.6 | 883.2 | 843.2 | 815.3 | 778.7 | 743.6 | 737.7 |
| 27.5° | 976.4 | 959.7 | 954.0 | 944.4 | 906.7 | 870.7 | 826.3 | 793.4 | 754.3 | 715.5 | 709.2 |
| 30°   | 970.7 | 953.8 | 948.3 | 935.8 | 895.4 | 855.4 | 807.7 | 769.1 | 727.1 | 685.9 | 680.4 |
| 32.5° | 959.3 | 942.8 | 938.3 | 925.8 | 883.2 | 837.7 | 786.1 | 743.0 | 697.1 | 657.8 | 649.6 |
| 35°   | 942.6 | 926.0 | 923.2 | 910.1 | 866.1 | 816.5 | 762.4 | 714.5 | 665.3 | 625.1 | 617.2 |
| 37.5° | 920.7 | 906.9 | 902.6 | 889.7 | 845.9 | 792.4 | 735.3 | 683.5 | 632.9 | 589.6 | 584.7 |
| 40°   | 893.2 | 880.1 | 876.9 | 865.4 | 822.4 | 765.7 | 705.9 | 651.4 | 599.4 | 559.2 | 552.3 |
| 42.5° | 861.8 | 849.5 | 847.7 | 835.9 | 793.4 | 736.1 | 674.1 | 618.2 | 564.5 | 525.8 | 518.8 |
| 45°   | 826.1 | 814.2 | 813.8 | 802.6 | 761.8 | 703.2 | 640.6 | 584.5 | 530.4 | 490.3 | 486.6 |
| 47.5° | 786.7 | 776.1 | 776.1 | 765.7 | 726.5 | 667.1 | 606.1 | 549.4 | 496.2 | 460.7 | 454.1 |
| 50°   | 743.8 | 733.9 | 730.8 | 725.7 | 687.5 | 627.8 | 569.8 | 515.1 | 462.3 | 428.4 | 422.1 |
| 52.5° | 698.1 | 689.6 | 691.6 | 682.2 | 645.3 | 586.8 | 533.1 | 476.6 | 428.2 | 397.4 | 391.1 |
| 55°   | 650.0 | 637.8 | 639.6 | 636.1 | 601.2 | 544.5 | 491.9 | 444.8 | 394.8 | 365.8 | 359.9 |
| 57.5° | 600.0 | 584.1 | 590.6 | 588.6 | 554.3 | 501.3 | 454.1 | 408.6 | 361.5 | 334.8 | 329.1 |
| 60°   | 548.8 | 533.5 | 540.2 | 538.4 | 506.2 | 458.0 | 415.2 | 372.9 | 328.5 | 304.2 | 298.5 |
| 62.5° | 496.2 | 482.1 | 488.2 | 486.8 | 457.2 | 413.7 | 376.4 | 337.6 | 295.2 | 273.4 | 268.1 |
| 65°   | 443.1 | 429.7 | 435.2 | 434.1 | 406.8 | 373.8 | 336.6 | 301.1 | 261.8 | 242.8 | 237.5 |
| 67.5° | 388.9 | 376.4 | 381.5 | 381.5 | 356.4 | 324.8 | 296.6 | 264.2 | 228.9 | 212.6 | 207.7 |
| 70°   | 335.0 | 323.4 | 327.9 | 327.4 | 306.2 | 280.5 | 256.2 | 227.3 | 195.7 | 182.2 | 178.1 |
| 72.5° | 280.7 | 270.5 | 274.6 | 274.2 | 256.5 | 239.9 | 215.9 | 190.8 | 163.2 | 152.4 | 148.7 |
| 75°   | 228.1 | 218.5 | 222.4 | 222.0 | 207.5 | 192.0 | 175.9 | 155.1 | 131.4 | 123.8 | 120.2 |
| 77.5° | 177.9 | 168.1 | 171.4 | 171.4 | 160.8 | 149.5 | 136.7 | 120.6 | 103.8 | 95.7  | 93.0  |
| 80°   | 129.8 | 125.1 | 123.4 | 123.6 | 116.5 | 109.1 | 102.6 | 87.1  | 74.9  | 69.4  | 67.5  |
| 82.5° | 85.3  | 81.4  | 79.8  | 80.2  | 76.1  | 71.6  | 67.5  | 56.7  | 48.6  | 45.3  | 44.3  |
| 85°   | 45.3  | 42.4  | 41.0  | 42.0  | 41.2  | 38.8  | 36.7  | 29.4  | 24.3  | 23.1  | 22.4  |
| 87.5° | 14.3  | 12.4  | 11.4  | 15.1  | 12.9  | 11.4  | 11.0  | 8.8   | 6.7   | 6.7   | 6.5   |
| 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):**

|       | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  | 185°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 |
| 2.5°  | 873.4 | 873.4 | 865.4 | 863.6 | 862.8 | 863.8 | 855.9 | 854.4 | 865.9 | 862.0 | 853.2 |
| 5°    | 866.5 | 866.1 | 854.8 | 852.8 | 852.8 | 851.6 | 842.6 | 840.6 | 852.0 | 848.7 | 839.1 |
| 7.5°  | 857.9 | 856.7 | 843.4 | 842.0 | 839.9 | 839.1 | 829.1 | 827.7 | 837.5 | 835.5 | 826.5 |
| 10°   | 847.5 | 846.3 | 830.6 | 829.5 | 827.3 | 825.7 | 816.3 | 815.3 | 825.3 | 822.0 | 814.8 |
| 12.5° | 833.8 | 831.6 | 815.5 | 814.4 | 812.6 | 812.0 | 802.8 | 802.4 | 813.4 | 810.2 | 802.6 |
| 15°   | 815.9 | 814.0 | 796.1 | 796.5 | 796.7 | 796.7 | 789.3 | 788.9 | 799.7 | 798.3 | 790.2 |
| 17.5° | 796.1 | 793.6 | 776.5 | 777.7 | 779.1 | 780.8 | 775.1 | 776.1 | 787.5 | 785.7 | 778.3 |
| 20°   | 773.6 | 771.2 | 754.5 | 757.9 | 761.0 | 764.3 | 760.6 | 763.4 | 774.0 | 773.2 | 767.7 |
| 22.5° | 748.5 | 746.1 | 730.6 | 735.9 | 741.0 | 747.1 | 745.5 | 748.7 | 760.0 | 759.8 | 754.9 |
| 25°   | 717.9 | 718.6 | 704.9 | 711.4 | 720.0 | 728.5 | 729.2 | 734.5 | 746.9 | 745.7 | 741.2 |
| 27.5° | 689.4 | 690.2 | 675.7 | 686.7 | 698.1 | 709.2 | 711.8 | 719.2 | 731.8 | 730.8 | 726.9 |
| 30°   | 659.4 | 660.4 | 646.3 | 661.4 | 675.3 | 688.8 | 694.5 | 704.5 | 717.3 | 717.3 | 713.2 |
| 32.5° | 628.2 | 630.0 | 615.3 | 635.5 | 651.6 | 667.3 | 677.3 | 687.7 | 702.4 | 702.0 | 698.6 |
| 35°   | 596.1 | 598.2 | 584.7 | 610.4 | 626.5 | 645.7 | 658.2 | 672.0 | 685.1 | 685.3 | 682.6 |
| 37.5° | 563.5 | 565.9 | 553.7 | 581.9 | 600.2 | 622.9 | 638.8 | 652.7 | 667.1 | 668.0 | 665.5 |
| 40°   | 531.1 | 533.7 | 523.1 | 550.2 | 573.5 | 598.8 | 617.2 | 633.5 | 649.4 | 649.8 | 648.2 |
| 42.5° | 498.6 | 501.5 | 493.5 | 520.0 | 546.4 | 573.5 | 595.1 | 613.7 | 630.0 | 631.0 | 629.2 |
| 45°   | 467.0 | 469.4 | 463.7 | 492.7 | 518.0 | 547.6 | 572.5 | 593.5 | 610.0 | 611.4 | 610.8 |
| 47.5° | 435.6 | 437.8 | 432.7 | 459.2 | 488.4 | 519.8 | 548.6 | 571.9 | 589.4 | 591.0 | 590.6 |
| 50°   | 404.8 | 406.6 | 401.1 | 428.8 | 457.8 | 491.3 | 521.3 | 548.2 | 567.8 | 569.4 | 569.2 |
| 52.5° | 374.2 | 376.0 | 371.3 | 400.5 | 426.8 | 462.1 | 494.7 | 523.9 | 543.3 | 545.7 | 546.2 |
| 55°   | 344.6 | 345.4 | 341.7 | 369.7 | 395.2 | 432.1 | 469.6 | 498.0 | 517.4 | 519.4 | 520.7 |
| 57.5° | 315.0 | 315.2 | 312.1 | 338.9 | 363.4 | 401.1 | 440.5 | 470.3 | 488.6 | 490.7 | 492.5 |
| 60°   | 285.6 | 285.4 | 282.0 | 307.9 | 331.3 | 368.7 | 409.7 | 439.3 | 457.0 | 458.8 | 461.3 |
| 62.5° | 256.5 | 255.8 | 252.8 | 276.6 | 298.7 | 335.6 | 376.8 | 405.4 | 422.3 | 423.5 | 426.8 |
| 65°   | 227.5 | 226.9 | 224.0 | 246.0 | 266.0 | 301.3 | 341.7 | 368.9 | 384.2 | 385.8 | 385.2 |
| 67.5° | 198.9 | 197.7 | 195.4 | 215.2 | 233.4 | 266.0 | 304.8 | 330.7 | 343.4 | 344.8 | 348.7 |
| 70°   | 170.4 | 168.9 | 163.8 | 184.8 | 200.8 | 229.9 | 266.0 | 289.1 | 299.7 | 301.1 | 300.5 |
| 72.5° | 142.2 | 140.8 | 135.3 | 154.6 | 168.1 | 193.6 | 225.8 | 245.0 | 254.2 | 255.4 | 255.4 |
| 75°   | 114.9 | 114.0 | 110.6 | 125.3 | 136.5 | 157.3 | 184.6 | 200.5 | 207.7 | 209.1 | 208.7 |
| 77.5° | 88.5  | 87.9  | 84.5  | 97.1  | 105.9 | 121.4 | 143.4 | 155.9 | 161.2 | 162.8 | 166.3 |
| 80°   | 63.4  | 63.2  | 57.7  | 70.2  | 74.1  | 87.1  | 103.2 | 112.8 | 115.7 | 117.9 | 120.4 |
| 82.5° | 40.6  | 40.8  | 35.3  | 45.9  | 47.5  | 55.9  | 65.9  | 71.8  | 73.9  | 75.7  | 77.5  |
| 85°   | 19.8  | 20.6  | 17.5  | 24.3  | 24.5  | 28.8  | 33.1  | 35.3  | 36.1  | 37.5  | 39.2  |
| 87.5° | 5.1   | 5.9   | 3.3   | 6.9   | 6.1   | 8.0   | 9.2   | 9.8   | 9.6   | 10.6  | 11.2  |
| 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):**

|       | 195°  | 205°  | 215°  | 225°  | 235°  | 245°  | 255°  | 265°  | 270°  | 275°  | 285°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 |
| 2.5°  | 856.1 | 862.6 | 859.3 | 869.9 | 874.0 | 867.5 | 878.9 | 879.1 | 871.0 | 880.5 | 885.8 |
| 5°    | 842.8 | 849.5 | 847.5 | 858.5 | 863.6 | 857.9 | 871.8 | 874.4 | 866.5 | 877.3 | 885.8 |
| 7.5°  | 829.3 | 837.3 | 834.6 | 845.9 | 852.0 | 847.5 | 862.4 | 866.7 | 860.5 | 872.4 | 883.8 |
| 10°   | 817.7 | 824.4 | 821.6 | 833.4 | 838.7 | 835.0 | 849.7 | 857.7 | 852.0 | 866.5 | 880.1 |
| 12.5° | 806.3 | 811.8 | 808.5 | 818.3 | 823.4 | 818.7 | 836.7 | 844.0 | 839.9 | 855.0 | 872.6 |
| 15°   | 791.6 | 797.7 | 793.2 | 802.0 | 805.9 | 801.8 | 816.5 | 829.1 | 824.0 | 840.6 | 859.9 |
| 17.5° | 780.4 | 783.8 | 777.7 | 784.7 | 786.9 | 781.4 | 796.3 | 808.7 | 805.1 | 823.0 | 845.4 |
| 20°   | 767.9 | 770.8 | 762.2 | 766.1 | 765.9 | 758.9 | 772.6 | 784.9 | 782.4 | 802.2 | 827.7 |
| 22.5° | 754.0 | 755.5 | 745.5 | 746.3 | 745.9 | 734.5 | 746.7 | 759.2 | 758.1 | 778.1 | 806.7 |
| 25°   | 739.4 | 739.6 | 726.7 | 726.3 | 721.8 | 708.3 | 719.2 | 733.2 | 730.2 | 751.8 | 781.8 |
| 27.5° | 724.9 | 722.8 | 707.3 | 703.7 | 696.5 | 680.4 | 690.0 | 702.6 | 700.8 | 722.0 | 755.3 |
| 30°   | 709.4 | 706.7 | 687.7 | 681.0 | 670.6 | 652.0 | 660.0 | 671.8 | 672.9 | 691.4 | 726.3 |
| 32.5° | 694.7 | 687.9 | 666.9 | 657.1 | 644.1 | 622.5 | 626.7 | 638.8 | 640.4 | 659.2 | 695.1 |
| 35°   | 675.7 | 671.2 | 645.3 | 628.6 | 615.7 | 592.1 | 596.5 | 604.9 | 607.4 | 625.7 | 662.2 |
| 37.5° | 657.8 | 650.6 | 623.1 | 602.7 | 586.1 | 561.3 | 562.5 | 571.0 | 573.5 | 592.1 | 628.2 |
| 40°   | 639.2 | 629.0 | 599.4 | 575.5 | 556.6 | 530.4 | 529.0 | 538.0 | 539.8 | 558.0 | 590.6 |
| 42.5° | 619.4 | 607.2 | 573.9 | 547.8 | 526.0 | 499.4 | 496.6 | 504.3 | 506.4 | 524.1 | 556.2 |
| 45°   | 599.4 | 584.7 | 547.8 | 519.2 | 495.4 | 468.2 | 465.4 | 471.3 | 474.3 | 491.1 | 521.9 |
| 47.5° | 578.2 | 561.0 | 520.9 | 489.0 | 464.3 | 437.2 | 433.7 | 439.7 | 442.1 | 458.6 | 487.8 |
| 50°   | 555.9 | 535.1 | 493.1 | 458.0 | 433.5 | 406.8 | 401.7 | 408.6 | 410.9 | 426.4 | 455.0 |
| 52.5° | 531.5 | 508.4 | 463.5 | 426.8 | 402.3 | 376.8 | 370.7 | 377.4 | 380.1 | 395.2 | 421.5 |
| 55°   | 505.6 | 480.7 | 433.7 | 398.0 | 371.5 | 346.6 | 341.5 | 344.2 | 349.9 | 364.2 | 388.7 |
| 57.5° | 476.4 | 451.7 | 402.3 | 366.0 | 340.5 | 316.6 | 312.4 | 314.8 | 320.1 | 334.0 | 356.0 |
| 60°   | 445.4 | 419.3 | 370.3 | 334.0 | 309.3 | 286.6 | 282.8 | 285.0 | 290.7 | 303.4 | 323.8 |
| 62.5° | 414.8 | 385.4 | 337.2 | 301.1 | 278.7 | 257.7 | 256.7 | 255.8 | 261.1 | 273.4 | 291.3 |
| 65°   | 377.6 | 349.5 | 302.8 | 268.5 | 248.1 | 229.1 | 225.0 | 226.9 | 232.0 | 243.2 | 262.0 |
| 67.5° | 337.9 | 312.4 | 267.5 | 235.8 | 217.7 | 200.8 | 197.3 | 198.1 | 203.4 | 213.2 | 229.5 |
| 70°   | 295.6 | 273.2 | 231.4 | 203.0 | 187.7 | 171.8 | 169.5 | 169.7 | 174.8 | 183.4 | 197.7 |
| 72.5° | 251.3 | 231.2 | 194.8 | 170.6 | 157.9 | 146.5 | 144.4 | 142.0 | 146.7 | 154.0 | 166.3 |
| 75°   | 206.3 | 188.5 | 158.5 | 138.7 | 128.7 | 119.1 | 117.3 | 114.9 | 119.6 | 125.9 | 135.5 |
| 77.5° | 160.8 | 146.5 | 123.2 | 107.9 | 100.2 | 93.0  | 91.4  | 88.7  | 93.4  | 98.1  | 105.7 |
| 80°   | 116.3 | 105.9 | 92.0  | 75.9  | 73.2  | 68.5  | 66.9  | 64.1  | 68.5  | 71.6  | 77.3  |
| 82.5° | 75.1  | 68.1  | 60.2  | 49.0  | 48.6  | 45.1  | 44.3  | 41.0  | 45.1  | 46.9  | 51.2  |
| 85°   | 37.9  | 34.7  | 32.6  | 24.9  | 25.7  | 23.5  | 23.3  | 19.8  | 23.1  | 23.9  | 26.3  |
| 87.5° | 10.8  | 11.4  | 10.2  | 6.1   | 7.8   | 7.3   | 7.3   | 5.3   | 7.3   | 7.3   | 8.4   |
| 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: P837914

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-2LO-50-120-EDD

**CANDELA DISTRIBUTION (continued):**

|       | 295°  | 305°  | 315°  | 325°  | 335°  | 345°  | 355°  | 360°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 | 874.6 |
| 2.5°  | 875.4 | 878.9 | 879.7 | 879.5 | 881.8 | 894.0 | 889.9 | 894.0 |
| 5°    | 877.5 | 885.2 | 887.3 | 890.1 | 893.8 | 907.7 | 903.2 | 908.1 |
| 7.5°  | 878.7 | 890.3 | 894.8 | 900.3 | 906.2 | 921.8 | 918.1 | 923.0 |
| 10°   | 878.7 | 893.8 | 900.3 | 909.5 | 917.5 | 935.4 | 932.0 | 937.7 |
| 12.5° | 875.0 | 894.4 | 903.6 | 916.4 | 926.6 | 946.0 | 944.6 | 948.7 |
| 15°   | 867.5 | 891.4 | 904.0 | 920.5 | 933.2 | 954.8 | 954.2 | 959.1 |
| 17.5° | 857.3 | 886.0 | 901.4 | 922.2 | 938.1 | 962.4 | 963.8 | 966.4 |
| 20°   | 844.4 | 876.1 | 896.0 | 921.5 | 941.5 | 968.3 | 970.1 | 973.8 |
| 22.5° | 827.5 | 864.0 | 888.1 | 918.9 | 942.0 | 970.7 | 974.0 | 977.4 |
| 25°   | 807.5 | 849.5 | 877.7 | 913.8 | 939.9 | 970.5 | 975.0 | 978.1 |
| 27.5° | 784.7 | 830.8 | 864.4 | 905.6 | 934.2 | 967.2 | 972.8 | 976.4 |
| 30°   | 758.1 | 810.8 | 849.3 | 895.0 | 926.4 | 961.1 | 967.0 | 970.7 |
| 32.5° | 730.8 | 788.7 | 831.4 | 881.4 | 915.2 | 951.3 | 956.4 | 959.3 |
| 35°   | 701.0 | 762.0 | 809.7 | 863.8 | 900.7 | 935.6 | 939.5 | 942.6 |
| 37.5° | 668.6 | 733.0 | 785.1 | 844.0 | 880.3 | 913.8 | 917.3 | 920.7 |
| 40°   | 635.1 | 702.6 | 757.3 | 819.7 | 856.1 | 887.1 | 890.7 | 893.2 |
| 42.5° | 601.4 | 669.0 | 727.7 | 791.2 | 827.3 | 857.1 | 859.3 | 861.8 |
| 45°   | 567.4 | 634.1 | 694.5 | 759.6 | 795.3 | 823.2 | 824.0 | 826.1 |
| 47.5° | 532.7 | 598.0 | 658.0 | 723.4 | 758.7 | 784.2 | 785.1 | 786.7 |
| 50°   | 497.8 | 561.9 | 619.0 | 684.5 | 719.0 | 745.9 | 742.2 | 743.8 |
| 52.5° | 463.5 | 523.9 | 582.3 | 642.5 | 676.5 | 700.4 | 701.4 | 698.1 |
| 55°   | 429.9 | 486.8 | 540.4 | 598.4 | 630.8 | 649.4 | 648.8 | 650.0 |
| 57.5° | 395.8 | 449.2 | 498.4 | 551.5 | 583.1 | 600.6 | 604.3 | 600.0 |
| 60°   | 361.1 | 411.3 | 455.4 | 503.3 | 533.9 | 548.6 | 552.9 | 548.8 |
| 62.5° | 326.6 | 372.7 | 412.7 | 454.6 | 482.9 | 501.1 | 500.7 | 496.2 |
| 65°   | 292.2 | 334.0 | 369.7 | 405.2 | 429.9 | 448.0 | 447.2 | 443.1 |
| 67.5° | 260.3 | 294.8 | 326.8 | 355.6 | 377.0 | 389.5 | 393.8 | 388.9 |
| 70°   | 225.2 | 255.0 | 283.2 | 306.2 | 324.0 | 335.2 | 339.3 | 335.0 |
| 72.5° | 190.1 | 215.4 | 235.2 | 257.5 | 271.1 | 280.5 | 284.8 | 280.7 |
| 75°   | 155.5 | 176.3 | 192.4 | 209.7 | 219.3 | 227.3 | 232.2 | 228.1 |
| 77.5° | 121.8 | 137.9 | 150.8 | 163.4 | 174.4 | 176.3 | 180.6 | 177.9 |
| 80°   | 89.8  | 101.4 | 110.8 | 119.1 | 127.1 | 127.9 | 131.4 | 129.8 |
| 82.5° | 59.8  | 67.5  | 70.0  | 78.8  | 83.9  | 83.0  | 86.5  | 85.3  |
| 85°   | 31.6  | 36.3  | 40.6  | 43.3  | 46.1  | 43.5  | 46.5  | 45.3  |
| 87.5° | 10.6  | 11.2  | 9.8   | 13.9  | 15.3  | 13.1  | 14.9  | 14.3  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)