

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: P837827

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-3LO-20-120-EDD**

Issue Date: 5/21/2024

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08  
Report Number: P837827  
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-LD4-3LO-20-120-EDD  
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and  
RFI grid  
Light Source: 2000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

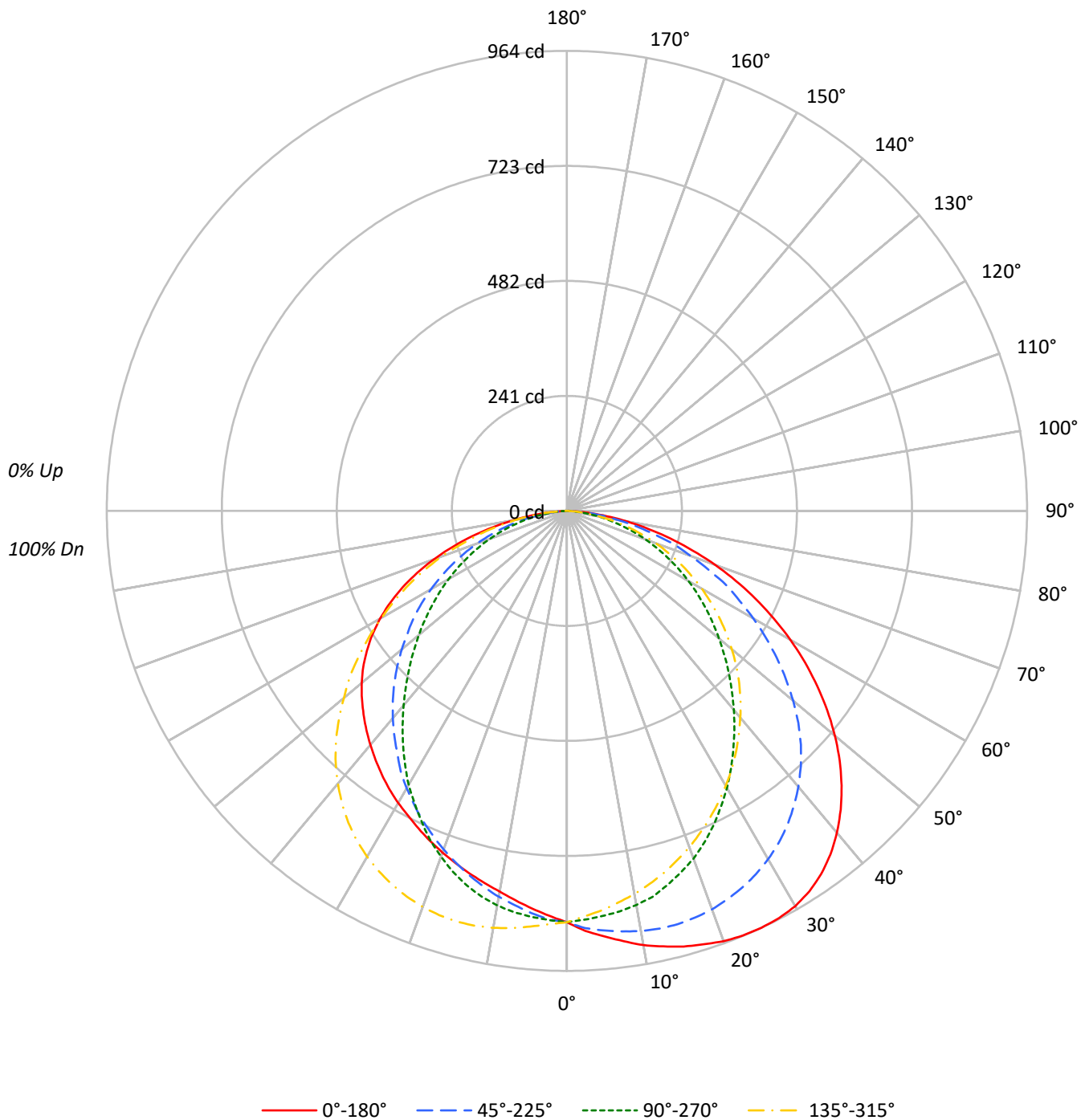
Lumens per Lamp: N/A  
Luminaire Lumens: 2528.5 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.1  
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

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### Luminous Intensity Polar Plot



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**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°  | 2319 | 2319 | 2319 | 2319 |
| 5°  | 2417 | 2303 | 2259 | 2306 |
| 10° | 2525 | 2291 | 2213 | 2294 |
| 15° | 2633 | 2262 | 2192 | 2262 |
| 20° | 2748 | 2220 | 2182 | 2208 |
| 25° | 2862 | 2159 | 2182 | 2136 |
| 30° | 2972 | 2083 | 2196 | 2060 |
| 35° | 3051 | 1998 | 2218 | 1966 |
| 40° | 3092 | 1912 | 2249 | 1868 |
| 45° | 3098 | 1825 | 2293 | 1779 |
| 50° | 3069 | 1741 | 2349 | 1695 |
| 55° | 3005 | 1664 | 2401 | 1618 |
| 60° | 2911 | 1583 | 2433 | 1542 |
| 65° | 2781 | 1490 | 2421 | 1456 |
| 70° | 2597 | 1381 | 2334 | 1356 |
| 75° | 2337 | 1231 | 2143 | 1225 |
| 80° | 1982 | 1031 | 1801 | 1046 |
| 85° | 1377 | 682  | 1142 | 701  |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269



TEST NUMBER: P837827

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 81.8   | 3.2       |
| 10°-20°   | 237.0  | 9.4       |
| 20°-30°   | 363.1  | 14.4      |
| 30°-40°   | 441.6  | 17.5      |
| 40°-50°   | 459.0  | 18.2      |
| 50°-60°   | 414.6  | 16.4      |
| 60°-70°   | 315.2  | 12.5      |
| 70°-80°   | 175.7  | 7.0       |
| 80°-90°   | 40.5   | 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°    | 681.9  | 27.0      |
| 0°-40°    | 1123.5 | 44.4      |
| 0°-60°    | 1997.1 | 79.0      |
| 0°-90°    | 2528.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2528.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 90° | 180° | 270° | 360° | Flux |
|-----|-----|-----|------|------|------|------|
| 0°  | 862 | 862 | 862  | 862  | 862  |      |
| 5°  | 895 | 852 | 836  | 854  | 895  | 86   |
| 15° | 945 | 812 | 787  | 812  | 945  | 268  |
| 25° | 964 | 727 | 735  | 720  | 964  | 445  |
| 35° | 929 | 608 | 675  | 598  | 929  | 580  |
| 45° | 814 | 480 | 602  | 467  | 814  | 627  |
| 55° | 640 | 355 | 512  | 345  | 640  | 572  |
| 65° | 437 | 234 | 380  | 229  | 437  | 432  |
| 75° | 225 | 118 | 206  | 118  | 225  | 239  |
| 85° | 45  | 22  | 37   | 23   | 45   | 56   |
| 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°    | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 |
| 2.5°  | 880.9 | 868.1 | 868.3 | 879.5 | 870.9 | 875.1 | 863.1 | 867.7 | 866.3 | 867.3 | 857.4 |
| 5°    | 894.8 | 880.9 | 880.7 | 890.4 | 880.7 | 882.6 | 867.3 | 870.3 | 865.9 | 863.1 | 852.4 |
| 7.5°  | 909.5 | 895.6 | 894.2 | 902.7 | 890.0 | 888.6 | 871.7 | 871.7 | 863.7 | 856.6 | 846.6 |
| 10°   | 924.0 | 909.7 | 907.9 | 914.3 | 898.6 | 894.0 | 873.5 | 870.3 | 859.6 | 849.2 | 838.3 |
| 12.5° | 934.8 | 920.3 | 918.9 | 923.0 | 905.3 | 896.8 | 873.5 | 867.3 | 851.6 | 836.9 | 828.5 |
| 15°   | 945.1 | 930.2 | 926.4 | 928.4 | 908.1 | 896.8 | 870.7 | 861.0 | 840.9 | 821.6 | 811.8 |
| 17.5° | 952.3 | 938.0 | 934.2 | 934.0 | 909.5 | 893.4 | 864.7 | 851.4 | 827.3 | 803.9 | 794.1 |
| 20°   | 959.6 | 945.3 | 940.5 | 936.8 | 909.1 | 888.8 | 855.8 | 837.9 | 809.8 | 783.6 | 775.4 |
| 22.5° | 963.2 | 948.5 | 943.3 | 937.8 | 906.5 | 880.3 | 845.0 | 822.2 | 790.1 | 758.9 | 752.1 |
| 25°   | 963.8 | 948.7 | 943.1 | 935.2 | 901.2 | 870.3 | 830.9 | 803.3 | 767.4 | 732.8 | 727.0 |
| 27.5° | 962.2 | 945.7 | 940.0 | 930.6 | 893.4 | 858.0 | 814.2 | 781.8 | 743.2 | 705.0 | 698.8 |
| 30°   | 956.5 | 939.8 | 934.4 | 922.2 | 882.4 | 842.9 | 795.9 | 757.9 | 716.5 | 675.9 | 670.5 |
| 32.5° | 945.3 | 929.0 | 924.6 | 912.3 | 870.3 | 825.5 | 774.6 | 732.2 | 686.9 | 648.1 | 640.1 |
| 35°   | 928.8 | 912.5 | 909.7 | 896.8 | 853.4 | 804.6 | 751.3 | 704.0 | 655.6 | 616.0 | 608.1 |
| 37.5° | 907.3 | 893.6 | 889.4 | 876.7 | 833.5 | 780.8 | 724.5 | 673.5 | 623.6 | 581.0 | 576.2 |
| 40°   | 880.1 | 867.3 | 864.1 | 852.8 | 810.4 | 754.5 | 695.6 | 641.9 | 590.6 | 551.0 | 544.2 |
| 42.5° | 849.2 | 837.1 | 835.3 | 823.6 | 781.8 | 725.3 | 664.2 | 609.1 | 556.3 | 518.1 | 511.2 |
| 45°   | 814.0 | 802.3 | 801.9 | 790.9 | 750.7 | 693.0 | 631.3 | 576.0 | 522.7 | 483.1 | 479.5 |
| 47.5° | 775.2 | 764.7 | 764.7 | 754.5 | 715.9 | 657.4 | 597.3 | 541.4 | 488.9 | 453.9 | 447.5 |
| 50°   | 733.0 | 723.1 | 720.1 | 715.1 | 677.5 | 618.6 | 561.5 | 507.6 | 455.6 | 422.2 | 415.9 |
| 52.5° | 687.9 | 679.5 | 681.5 | 672.3 | 635.9 | 578.2 | 525.3 | 469.6 | 422.0 | 391.6 | 385.4 |
| 55°   | 640.5 | 628.4 | 630.3 | 626.8 | 592.5 | 536.6 | 484.7 | 438.3 | 389.0 | 360.5 | 354.6 |
| 57.5° | 591.3 | 575.6 | 582.0 | 580.0 | 546.2 | 493.9 | 447.5 | 402.7 | 356.2 | 329.9 | 324.3 |
| 60°   | 540.8 | 525.7 | 532.3 | 530.5 | 498.8 | 451.3 | 409.1 | 367.5 | 323.7 | 299.7 | 294.1 |
| 62.5° | 488.9 | 475.1 | 481.1 | 479.7 | 450.5 | 407.7 | 370.9 | 332.7 | 290.9 | 269.4 | 264.2 |
| 65°   | 436.7 | 423.4 | 428.8 | 427.8 | 400.9 | 368.3 | 331.7 | 296.7 | 257.9 | 239.2 | 234.0 |
| 67.5° | 383.2 | 370.9 | 375.9 | 375.9 | 351.2 | 320.1 | 292.3 | 260.3 | 225.6 | 209.5 | 204.7 |
| 70°   | 330.1 | 318.6 | 323.1 | 322.7 | 301.8 | 276.4 | 252.5 | 224.0 | 192.8 | 179.5 | 175.5 |
| 72.5° | 276.6 | 266.6 | 270.6 | 270.2 | 252.7 | 236.4 | 212.7 | 188.0 | 160.8 | 150.2 | 146.6 |
| 75°   | 224.8 | 215.3 | 219.1 | 218.7 | 204.5 | 189.2 | 173.3 | 152.8 | 129.5 | 122.0 | 118.4 |
| 77.5° | 175.3 | 165.7 | 168.9 | 168.9 | 158.4 | 147.4 | 134.7 | 118.8 | 102.3 | 94.3  | 91.7  |
| 80°   | 127.9 | 123.2 | 121.6 | 121.8 | 114.8 | 107.6 | 101.1 | 85.8  | 73.8  | 68.4  | 66.5  |
| 82.5° | 84.0  | 80.2  | 78.6  | 79.0  | 75.0  | 70.6  | 66.5  | 55.9  | 47.8  | 44.6  | 43.6  |
| 85°   | 44.6  | 41.8  | 40.4  | 41.4  | 40.6  | 38.2  | 36.2  | 28.9  | 23.9  | 22.7  | 22.1  |
| 87.5° | 14.1  | 12.3  | 11.3  | 14.9  | 12.7  | 11.3  | 10.9  | 8.6   | 6.6   | 6.6   | 6.4   |
| 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°    | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 |
| 2.5°  | 860.6 | 860.6 | 852.8 | 851.0 | 850.2 | 851.2 | 843.4 | 841.9 | 853.2 | 849.4 | 840.7 |
| 5°    | 853.8 | 853.4 | 842.3 | 840.3 | 840.3 | 839.1 | 830.3 | 828.3 | 839.5 | 836.3 | 826.9 |
| 7.5°  | 845.4 | 844.2 | 831.1 | 829.7 | 827.7 | 826.9 | 817.0 | 815.6 | 825.3 | 823.2 | 814.4 |
| 10°   | 835.1 | 833.9 | 818.4 | 817.4 | 815.2 | 813.6 | 804.3 | 803.3 | 813.2 | 810.0 | 802.9 |
| 12.5° | 821.6 | 819.4 | 803.5 | 802.5 | 800.7 | 800.1 | 791.1 | 790.7 | 801.5 | 798.3 | 790.9 |
| 15°   | 803.9 | 802.1 | 784.4 | 784.8 | 785.1 | 785.1 | 777.8 | 777.4 | 788.1 | 786.7 | 778.6 |
| 17.5° | 784.4 | 782.0 | 765.1 | 766.4 | 767.8 | 769.4 | 763.7 | 764.7 | 776.0 | 774.2 | 767.0 |
| 20°   | 762.3 | 759.9 | 743.4 | 746.9 | 749.9 | 753.1 | 749.5 | 752.3 | 762.7 | 761.9 | 756.5 |
| 22.5° | 737.6 | 735.2 | 719.9 | 725.1 | 730.2 | 736.2 | 734.6 | 737.8 | 748.9 | 748.7 | 743.8 |
| 25°   | 707.4 | 708.1 | 694.6 | 701.0 | 709.5 | 717.9 | 718.5 | 723.7 | 736.0 | 734.8 | 730.4 |
| 27.5° | 679.3 | 680.1 | 665.8 | 676.7 | 687.9 | 698.8 | 701.4 | 708.7 | 721.1 | 720.1 | 716.3 |
| 30°   | 649.8 | 650.8 | 636.9 | 651.8 | 665.4 | 678.7 | 684.3 | 694.2 | 706.8 | 706.8 | 702.8 |
| 32.5° | 619.0 | 620.8 | 606.3 | 626.2 | 642.1 | 657.6 | 667.4 | 677.7 | 692.2 | 691.8 | 688.4 |
| 35°   | 587.4 | 589.4 | 576.2 | 601.5 | 617.4 | 636.3 | 648.5 | 662.2 | 675.1 | 675.3 | 672.7 |
| 37.5° | 555.3 | 557.7 | 545.6 | 573.4 | 591.5 | 613.8 | 629.4 | 643.1 | 657.4 | 658.2 | 655.8 |
| 40°   | 523.3 | 525.9 | 515.5 | 542.2 | 565.1 | 590.0 | 608.1 | 624.2 | 639.9 | 640.3 | 638.7 |
| 42.5° | 491.3 | 494.1 | 486.3 | 512.4 | 538.4 | 565.1 | 586.4 | 604.7 | 620.8 | 621.8 | 620.0 |
| 45°   | 460.2 | 462.6 | 457.0 | 485.5 | 510.4 | 539.6 | 564.1 | 584.8 | 601.1 | 602.5 | 601.9 |
| 47.5° | 429.2 | 431.4 | 426.4 | 452.5 | 481.3 | 512.2 | 540.6 | 563.5 | 580.8 | 582.4 | 582.0 |
| 50°   | 398.9 | 400.7 | 395.2 | 422.6 | 451.1 | 484.1 | 513.6 | 540.2 | 559.5 | 561.1 | 560.9 |
| 52.5° | 368.7 | 370.5 | 365.9 | 394.6 | 420.6 | 455.3 | 487.5 | 516.3 | 535.4 | 537.8 | 538.2 |
| 55°   | 339.6 | 340.4 | 336.7 | 364.3 | 389.4 | 425.8 | 462.8 | 490.7 | 509.8 | 511.8 | 513.0 |
| 57.5° | 310.4 | 310.6 | 307.6 | 333.9 | 358.0 | 395.2 | 434.0 | 463.4 | 481.5 | 483.5 | 485.3 |
| 60°   | 281.5 | 281.3 | 277.8 | 303.4 | 326.5 | 363.3 | 403.7 | 432.8 | 450.3 | 452.1 | 454.5 |
| 62.5° | 252.7 | 252.1 | 249.1 | 272.6 | 294.3 | 330.7 | 371.3 | 399.5 | 416.1 | 417.4 | 420.6 |
| 65°   | 224.2 | 223.6 | 220.7 | 242.5 | 262.2 | 296.9 | 336.7 | 363.5 | 378.6 | 380.2 | 379.6 |
| 67.5° | 196.0 | 194.8 | 192.6 | 212.1 | 230.0 | 262.2 | 300.3 | 325.9 | 338.3 | 339.8 | 343.6 |
| 70°   | 167.9 | 166.5 | 161.4 | 182.1 | 197.8 | 226.6 | 262.2 | 284.9 | 295.3 | 296.7 | 296.1 |
| 72.5° | 140.1 | 138.7 | 133.3 | 152.4 | 165.7 | 190.8 | 222.5 | 241.4 | 250.5 | 251.7 | 251.7 |
| 75°   | 113.2 | 112.4 | 109.0 | 123.4 | 134.5 | 155.0 | 181.9 | 197.6 | 204.7 | 206.1 | 205.7 |
| 77.5° | 87.3  | 86.6  | 83.2  | 95.7  | 104.3 | 119.6 | 141.3 | 153.6 | 158.8 | 160.4 | 163.8 |
| 80°   | 62.5  | 62.3  | 56.9  | 69.2  | 73.0  | 85.8  | 101.7 | 111.2 | 114.0 | 116.2 | 118.6 |
| 82.5° | 40.0  | 40.2  | 34.8  | 45.2  | 46.8  | 55.1  | 64.9  | 70.8  | 72.8  | 74.6  | 76.4  |
| 85°   | 19.5  | 20.3  | 17.3  | 23.9  | 24.1  | 28.3  | 32.6  | 34.8  | 35.6  | 37.0  | 38.6  |
| 87.5° | 5.0   | 5.8   | 3.2   | 6.8   | 6.0   | 7.8   | 9.0   | 9.6   | 9.4   | 10.5  | 11.1  |
| 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):**

|       | 195°  | 205°  | 215°  | 225°  | 235°  | 245°  | 255°  | 265°  | 270°  | 275°  | 285°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 |
| 2.5°  | 843.6 | 850.0 | 846.8 | 857.2 | 861.2 | 854.8 | 866.1 | 866.3 | 858.2 | 867.7 | 872.9 |
| 5°    | 830.5 | 837.1 | 835.1 | 846.0 | 851.0 | 845.4 | 859.0 | 861.6 | 853.8 | 864.5 | 872.9 |
| 7.5°  | 817.2 | 825.1 | 822.4 | 833.5 | 839.5 | 835.1 | 849.8 | 854.0 | 848.0 | 859.6 | 870.9 |
| 10°   | 805.8 | 812.4 | 809.6 | 821.2 | 826.5 | 822.8 | 837.3 | 845.2 | 839.5 | 853.8 | 867.3 |
| 12.5° | 794.5 | 799.9 | 796.7 | 806.4 | 811.4 | 806.8 | 824.5 | 831.7 | 827.7 | 842.5 | 859.8 |
| 15°   | 780.0 | 786.1 | 781.6 | 790.3 | 794.1 | 790.1 | 804.6 | 817.0 | 812.0 | 828.3 | 847.4 |
| 17.5° | 769.0 | 772.4 | 766.4 | 773.2 | 775.4 | 770.0 | 784.6 | 796.9 | 793.3 | 811.0 | 833.1 |
| 20°   | 756.7 | 759.5 | 751.1 | 754.9 | 754.7 | 747.9 | 761.3 | 773.4 | 771.0 | 790.5 | 815.6 |
| 22.5° | 743.0 | 744.4 | 734.6 | 735.4 | 735.0 | 723.7 | 735.8 | 748.1 | 747.1 | 766.8 | 794.9 |
| 25°   | 728.6 | 728.8 | 716.1 | 715.7 | 711.3 | 698.0 | 708.7 | 722.5 | 719.5 | 740.8 | 770.4 |
| 27.5° | 714.3 | 712.3 | 697.0 | 693.4 | 686.3 | 670.5 | 679.9 | 692.4 | 690.6 | 711.5 | 744.2 |
| 30°   | 699.0 | 696.4 | 677.7 | 671.1 | 660.8 | 642.5 | 650.4 | 662.0 | 663.0 | 681.3 | 715.7 |
| 32.5° | 684.5 | 677.9 | 657.2 | 647.5 | 634.7 | 613.4 | 617.6 | 629.4 | 631.1 | 649.6 | 684.9 |
| 35°   | 665.8 | 661.4 | 635.9 | 619.4 | 606.7 | 583.4 | 587.8 | 596.1 | 598.5 | 616.6 | 652.6 |
| 37.5° | 648.1 | 641.1 | 614.0 | 593.9 | 577.6 | 553.1 | 554.3 | 562.7 | 565.1 | 583.4 | 619.0 |
| 40°   | 629.8 | 619.8 | 590.6 | 567.1 | 548.4 | 522.7 | 521.3 | 530.1 | 531.9 | 549.8 | 582.0 |
| 42.5° | 610.3 | 598.3 | 565.5 | 539.8 | 518.3 | 492.1 | 489.3 | 497.0 | 499.0 | 516.5 | 548.0 |
| 45°   | 590.6 | 576.2 | 539.8 | 511.6 | 488.1 | 461.4 | 458.6 | 464.4 | 467.4 | 483.9 | 514.3 |
| 47.5° | 569.7 | 552.9 | 513.2 | 481.9 | 457.6 | 430.8 | 427.4 | 433.2 | 435.6 | 451.9 | 480.7 |
| 50°   | 547.8 | 527.3 | 485.9 | 451.3 | 427.2 | 400.9 | 395.8 | 402.7 | 404.9 | 420.2 | 448.3 |
| 52.5° | 523.7 | 501.0 | 456.8 | 420.6 | 396.4 | 371.3 | 365.3 | 371.9 | 374.5 | 389.4 | 415.3 |
| 55°   | 498.2 | 473.6 | 427.4 | 392.2 | 366.1 | 341.6 | 336.5 | 339.1 | 344.8 | 358.9 | 383.0 |
| 57.5° | 469.4 | 445.1 | 396.4 | 360.7 | 335.5 | 312.0 | 307.8 | 310.2 | 315.4 | 329.1 | 350.8 |
| 60°   | 438.9 | 413.1 | 364.9 | 329.1 | 304.8 | 282.5 | 278.6 | 280.8 | 286.5 | 298.9 | 319.0 |
| 62.5° | 408.7 | 379.8 | 332.3 | 296.7 | 274.6 | 253.9 | 252.9 | 252.1 | 257.3 | 269.4 | 287.1 |
| 65°   | 372.1 | 344.4 | 298.3 | 264.6 | 244.5 | 225.8 | 221.7 | 223.6 | 228.6 | 239.6 | 258.1 |
| 67.5° | 332.9 | 307.8 | 263.6 | 232.4 | 214.5 | 197.8 | 194.4 | 195.2 | 200.4 | 210.1 | 226.2 |
| 70°   | 291.3 | 269.2 | 228.0 | 200.0 | 185.0 | 169.3 | 167.1 | 167.3 | 172.3 | 180.7 | 194.8 |
| 72.5° | 247.7 | 227.8 | 192.0 | 168.1 | 155.6 | 144.3 | 142.3 | 139.9 | 144.5 | 151.8 | 163.8 |
| 75°   | 203.2 | 185.8 | 156.2 | 136.7 | 126.9 | 117.4 | 115.6 | 113.2 | 117.8 | 124.0 | 133.5 |
| 77.5° | 158.4 | 144.3 | 121.4 | 106.3 | 98.7  | 91.7  | 90.1  | 87.5  | 92.1  | 96.7  | 104.1 |
| 80°   | 114.6 | 104.3 | 90.7  | 74.8  | 72.2  | 67.5  | 65.9  | 63.1  | 67.5  | 70.6  | 76.2  |
| 82.5° | 74.0  | 67.1  | 59.3  | 48.2  | 47.8  | 44.4  | 43.6  | 40.4  | 44.4  | 46.2  | 50.5  |
| 85°   | 37.4  | 34.2  | 32.2  | 24.5  | 25.3  | 23.1  | 22.9  | 19.5  | 22.7  | 23.5  | 25.9  |
| 87.5° | 10.7  | 11.3  | 10.1  | 6.0   | 7.6   | 7.2   | 7.2   | 5.2   | 7.2   | 7.2   | 8.2   |
| 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: P837827

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3LO-20-120-EDD

**CANDELA DISTRIBUTION (continued):**

|       | 295°  | 305°  | 315°  | 325°  | 335°  | 345°  | 355°  | 360°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 |
| 2.5°  | 862.7 | 866.1 | 866.9 | 866.7 | 868.9 | 880.9 | 876.9 | 880.9 |
| 5°    | 864.7 | 872.3 | 874.3 | 877.1 | 880.7 | 894.4 | 890.0 | 894.8 |
| 7.5°  | 865.9 | 877.3 | 881.7 | 887.2 | 893.0 | 908.3 | 904.7 | 909.5 |
| 10°   | 865.9 | 880.7 | 887.2 | 896.2 | 904.1 | 921.8 | 918.3 | 924.0 |
| 12.5° | 862.2 | 881.3 | 890.4 | 903.1 | 913.1 | 932.2 | 930.8 | 934.8 |
| 15°   | 854.8 | 878.3 | 890.8 | 907.1 | 919.5 | 940.9 | 940.3 | 945.1 |
| 17.5° | 844.8 | 873.1 | 888.2 | 908.7 | 924.4 | 948.3 | 949.7 | 952.3 |
| 20°   | 832.1 | 863.3 | 883.0 | 908.1 | 927.8 | 954.1 | 955.9 | 959.6 |
| 22.5° | 815.4 | 851.4 | 875.1 | 905.5 | 928.2 | 956.5 | 959.8 | 963.2 |
| 25°   | 795.7 | 837.1 | 864.9 | 900.4 | 926.2 | 956.3 | 960.8 | 963.8 |
| 27.5° | 773.2 | 818.6 | 851.8 | 892.4 | 920.5 | 953.1 | 958.5 | 962.2 |
| 30°   | 747.1 | 798.9 | 836.9 | 882.0 | 912.9 | 947.1 | 952.9 | 956.5 |
| 32.5° | 720.1 | 777.2 | 819.2 | 868.5 | 901.9 | 937.4 | 942.5 | 945.3 |
| 35°   | 690.8 | 750.9 | 797.9 | 851.2 | 887.6 | 922.0 | 925.8 | 928.8 |
| 37.5° | 658.8 | 722.3 | 773.6 | 831.7 | 867.5 | 900.4 | 903.9 | 907.3 |
| 40°   | 625.8 | 692.4 | 746.2 | 807.8 | 843.6 | 874.1 | 877.7 | 880.1 |
| 42.5° | 592.7 | 659.2 | 717.1 | 779.6 | 815.2 | 844.6 | 846.8 | 849.2 |
| 45°   | 559.1 | 624.8 | 684.3 | 748.5 | 783.6 | 811.2 | 812.0 | 814.0 |
| 47.5° | 524.9 | 589.2 | 648.3 | 712.9 | 747.7 | 772.8 | 773.6 | 775.2 |
| 50°   | 490.5 | 553.7 | 609.9 | 674.5 | 708.5 | 735.0 | 731.4 | 733.0 |
| 52.5° | 456.8 | 516.3 | 573.8 | 633.1 | 666.6 | 690.2 | 691.2 | 687.9 |
| 55°   | 423.6 | 479.7 | 532.5 | 589.6 | 621.6 | 639.9 | 639.3 | 640.5 |
| 57.5° | 390.0 | 442.7 | 491.1 | 543.4 | 574.6 | 591.9 | 595.5 | 591.3 |
| 60°   | 355.8 | 405.3 | 448.7 | 496.0 | 526.1 | 540.6 | 544.8 | 540.8 |
| 62.5° | 321.9 | 367.3 | 406.7 | 447.9 | 475.9 | 493.7 | 493.3 | 488.9 |
| 65°   | 287.9 | 329.1 | 364.3 | 399.3 | 423.6 | 441.5 | 440.7 | 436.7 |
| 67.5° | 256.5 | 290.5 | 322.1 | 350.4 | 371.5 | 383.8 | 388.0 | 383.2 |
| 70°   | 221.9 | 251.3 | 279.0 | 301.8 | 319.2 | 330.3 | 334.3 | 330.1 |
| 72.5° | 187.4 | 212.3 | 231.8 | 253.7 | 267.2 | 276.4 | 280.6 | 276.6 |
| 75°   | 153.2 | 173.7 | 189.6 | 206.7 | 216.1 | 224.0 | 228.8 | 224.8 |
| 77.5° | 120.0 | 135.9 | 148.6 | 161.0 | 171.9 | 173.7 | 177.9 | 175.3 |
| 80°   | 88.5  | 99.9  | 109.2 | 117.4 | 125.2 | 126.1 | 129.5 | 127.9 |
| 82.5° | 58.9  | 66.5  | 69.0  | 77.6  | 82.6  | 81.8  | 85.2  | 84.0  |
| 85°   | 31.2  | 35.8  | 40.0  | 42.6  | 45.4  | 42.8  | 45.8  | 44.6  |
| 87.5° | 10.5  | 11.1  | 9.6   | 13.7  | 15.1  | 12.9  | 14.7  | 14.1  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)