

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: P837971

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-3LO-30-120-EDD-90**

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: P837971  
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-30-120-EDD-90  
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and  
RFI grid  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

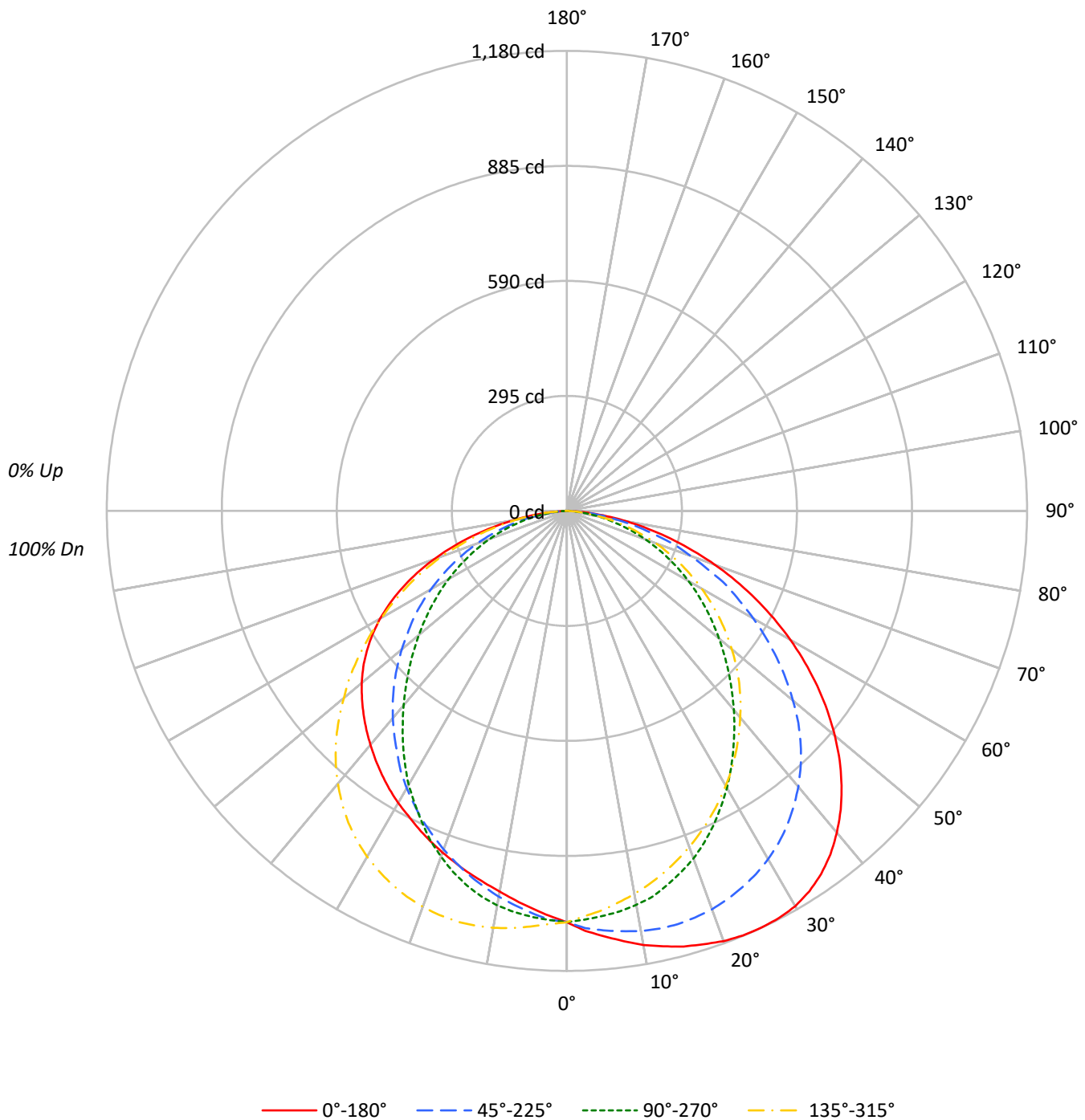
Lumens per Lamp: N/A  
Luminaire Lumens: 3094.6 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P837971

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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°  | 2838 | 2838 | 2838 | 2838 |
| 5°  | 2958 | 2818 | 2765 | 2823 |
| 10° | 3090 | 2804 | 2709 | 2808 |
| 15° | 3222 | 2768 | 2682 | 2769 |
| 20° | 3363 | 2718 | 2670 | 2702 |
| 25° | 3502 | 2642 | 2670 | 2615 |
| 30° | 3638 | 2550 | 2688 | 2522 |
| 35° | 3734 | 2445 | 2715 | 2406 |
| 40° | 3784 | 2340 | 2753 | 2287 |
| 45° | 3791 | 2233 | 2806 | 2177 |
| 50° | 3756 | 2131 | 2875 | 2074 |
| 55° | 3678 | 2036 | 2939 | 1980 |
| 60° | 3562 | 1938 | 2978 | 1887 |
| 65° | 3403 | 1824 | 2963 | 1782 |
| 70° | 3179 | 1690 | 2858 | 1659 |
| 75° | 2860 | 1507 | 2622 | 1499 |
| 80° | 2425 | 1261 | 2204 | 1282 |
| 85° | 1686 | 837  | 1399 | 858  |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837971

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3LO-30-120-EDD-90

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 100.1  | 3.2       |
| 10°-20°   | 290.0  | 9.4       |
| 20°-30°   | 444.4  | 14.4      |
| 30°-40°   | 540.4  | 17.5      |
| 40°-50°   | 561.8  | 18.2      |
| 50°-60°   | 507.5  | 16.4      |
| 60°-70°   | 385.8  | 12.5      |
| 70°-80°   | 215.1  | 7.0       |
| 80°-90°   | 49.5   | 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°    | 834.6  | 27.0      |
| 0°-40°    | 1375.0 | 44.4      |
| 0°-60°    | 2444.2 | 79.0      |
| 0°-90°    | 3094.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3094.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1055 | 1055 | 1055 | 1055 | 1055 |      |
| 5°  | 1095 | 1043 | 1024 | 1045 | 1095 | 106  |
| 15° | 1157 | 994  | 963  | 994  | 1157 | 328  |
| 25° | 1180 | 890  | 899  | 881  | 1180 | 545  |
| 35° | 1137 | 744  | 826  | 732  | 1137 | 710  |
| 45° | 996  | 587  | 737  | 572  | 996  | 767  |
| 55° | 784  | 434  | 626  | 422  | 784  | 700  |
| 65° | 534  | 286  | 465  | 280  | 534  | 528  |
| 75° | 275  | 145  | 252  | 144  | 275  | 292  |
| 85° | 55   | 27   | 45   | 28   | 55   | 69   |
| 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°    | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 |
| 2.5°  | 1078.2 | 1062.4 | 1062.7 | 1076.4 | 1065.9 | 1071.0 | 1056.3 | 1061.9 | 1060.2 | 1061.4 | 1049.4 |
| 5°    | 1095.1 | 1078.2 | 1077.9 | 1089.7 | 1077.9 | 1080.1 | 1061.4 | 1065.1 | 1059.7 | 1056.3 | 1043.2 |
| 7.5°  | 1113.1 | 1096.1 | 1094.4 | 1104.7 | 1089.2 | 1087.5 | 1066.9 | 1066.9 | 1057.0 | 1048.4 | 1036.1 |
| 10°   | 1130.8 | 1113.4 | 1111.1 | 1119.0 | 1099.8 | 1094.2 | 1069.1 | 1065.1 | 1052.1 | 1039.3 | 1026.0 |
| 12.5° | 1144.1 | 1126.4 | 1124.7 | 1129.6 | 1107.9 | 1097.6 | 1069.1 | 1061.4 | 1042.2 | 1024.3 | 1014.0 |
| 15°   | 1156.7 | 1138.5 | 1133.8 | 1136.2 | 1111.4 | 1097.6 | 1065.6 | 1053.8 | 1029.2 | 1005.6 | 993.5  |
| 17.5° | 1165.5 | 1148.0 | 1143.4 | 1143.1 | 1113.1 | 1093.4 | 1058.2 | 1042.0 | 1012.5 | 983.9  | 971.9  |
| 20°   | 1174.4 | 1156.9 | 1151.0 | 1146.6 | 1112.6 | 1087.8 | 1047.4 | 1025.5 | 991.1  | 959.1  | 949.0  |
| 22.5° | 1178.8 | 1160.8 | 1154.4 | 1147.8 | 1109.4 | 1077.4 | 1034.1 | 1006.3 | 967.0  | 928.8  | 920.5  |
| 25°   | 1179.5 | 1161.1 | 1154.2 | 1144.6 | 1103.0 | 1065.1 | 1016.9 | 983.2  | 939.2  | 896.8  | 889.7  |
| 27.5° | 1177.6 | 1157.4 | 1150.5 | 1138.9 | 1093.4 | 1050.1 | 996.5  | 956.9  | 909.6  | 862.9  | 855.3  |
| 30°   | 1170.7 | 1150.3 | 1143.6 | 1128.6 | 1079.9 | 1031.7 | 974.1  | 927.6  | 876.9  | 827.2  | 820.6  |
| 32.5° | 1156.9 | 1137.0 | 1131.6 | 1116.6 | 1065.1 | 1010.3 | 948.0  | 896.1  | 840.7  | 793.3  | 783.4  |
| 35°   | 1136.7 | 1116.8 | 1113.4 | 1097.6 | 1044.5 | 984.7  | 919.5  | 861.7  | 802.4  | 753.9  | 744.3  |
| 37.5° | 1110.4 | 1093.7 | 1088.5 | 1073.0 | 1020.1 | 955.6  | 886.7  | 824.3  | 763.2  | 711.1  | 705.2  |
| 40°   | 1077.2 | 1061.4 | 1057.5 | 1043.7 | 991.8  | 923.4  | 851.3  | 785.6  | 722.9  | 674.4  | 666.0  |
| 42.5° | 1039.3 | 1024.5 | 1022.3 | 1008.0 | 956.9  | 887.7  | 812.9  | 745.5  | 680.8  | 634.1  | 625.7  |
| 45°   | 996.2  | 982.0  | 981.5  | 967.9  | 918.7  | 848.1  | 772.6  | 704.9  | 639.7  | 591.2  | 586.8  |
| 47.5° | 948.8  | 936.0  | 936.0  | 923.4  | 876.2  | 804.6  | 731.0  | 662.6  | 598.4  | 555.6  | 547.7  |
| 50°   | 897.1  | 885.0  | 881.3  | 875.2  | 829.2  | 757.1  | 687.2  | 621.3  | 557.5  | 516.7  | 509.1  |
| 52.5° | 842.0  | 831.6  | 834.1  | 822.8  | 778.2  | 707.6  | 642.9  | 574.8  | 516.4  | 479.3  | 471.7  |
| 55°   | 783.9  | 769.1  | 771.4  | 767.2  | 725.1  | 656.7  | 593.2  | 536.4  | 476.1  | 441.2  | 434.0  |
| 57.5° | 723.6  | 704.4  | 712.3  | 709.8  | 668.5  | 604.5  | 547.7  | 492.8  | 436.0  | 403.8  | 396.9  |
| 60°   | 661.9  | 643.4  | 651.5  | 649.3  | 610.4  | 552.4  | 500.7  | 449.8  | 396.1  | 366.9  | 360.0  |
| 62.5° | 598.4  | 581.4  | 588.8  | 587.1  | 551.4  | 499.0  | 454.0  | 407.2  | 356.0  | 329.7  | 323.3  |
| 65°   | 534.4  | 518.2  | 524.8  | 523.6  | 490.6  | 450.8  | 406.0  | 363.2  | 315.7  | 292.8  | 286.4  |
| 67.5° | 469.0  | 454.0  | 460.1  | 460.1  | 429.8  | 391.7  | 357.8  | 318.6  | 276.1  | 256.4  | 250.5  |
| 70°   | 404.0  | 390.0  | 395.4  | 394.9  | 369.3  | 338.3  | 309.0  | 274.1  | 236.0  | 219.7  | 214.8  |
| 72.5° | 338.6  | 326.3  | 331.2  | 330.7  | 309.3  | 289.3  | 260.3  | 230.1  | 196.8  | 183.8  | 179.4  |
| 75°   | 275.1  | 263.5  | 268.2  | 267.7  | 250.2  | 231.5  | 212.1  | 187.0  | 158.5  | 149.3  | 144.9  |
| 77.5° | 214.6  | 202.7  | 206.7  | 206.7  | 193.9  | 180.4  | 164.9  | 145.4  | 125.2  | 115.4  | 112.2  |
| 80°   | 156.5  | 150.8  | 148.9  | 149.1  | 140.5  | 131.6  | 123.8  | 105.1  | 90.3   | 83.7   | 81.4   |
| 82.5° | 102.8  | 98.2   | 96.2   | 96.7   | 91.8   | 86.4   | 81.4   | 68.4   | 58.6   | 54.6   | 53.4   |
| 85°   | 54.6   | 51.2   | 49.5   | 50.7   | 49.7   | 46.7   | 44.3   | 35.4   | 29.3   | 27.8   | 27.1   |
| 87.5° | 17.2   | 15.0   | 13.8   | 18.2   | 15.5   | 13.8   | 13.3   | 10.6   | 8.1    | 8.1    | 7.9    |
| 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°    | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 |
| 2.5°  | 1053.3 | 1053.3 | 1043.7 | 1041.5 | 1040.5 | 1041.8 | 1032.2 | 1030.4 | 1044.2 | 1039.5 | 1029.0 |
| 5°    | 1045.0 | 1044.5 | 1030.9 | 1028.5 | 1028.5 | 1027.0 | 1016.2 | 1013.7 | 1027.5 | 1023.5 | 1012.0 |
| 7.5°  | 1034.6 | 1033.1 | 1017.2 | 1015.4 | 1013.0 | 1012.0 | 999.9  | 998.2  | 1010.0 | 1007.6 | 996.7  |
| 10°   | 1022.1 | 1020.6 | 1001.7 | 1000.4 | 997.7  | 995.7  | 984.4  | 983.2  | 995.3  | 991.3  | 982.7  |
| 12.5° | 1005.6 | 1002.9 | 983.4  | 982.2  | 980.0  | 979.3  | 968.2  | 967.7  | 981.0  | 977.0  | 967.9  |
| 15°   | 983.9  | 981.7  | 960.1  | 960.6  | 960.8  | 960.8  | 951.9  | 951.5  | 964.5  | 962.8  | 952.9  |
| 17.5° | 960.1  | 957.1  | 936.4  | 937.9  | 939.6  | 941.6  | 934.7  | 936.0  | 949.7  | 947.5  | 938.7  |
| 20°   | 933.0  | 930.1  | 909.9  | 914.1  | 917.7  | 921.7  | 917.3  | 920.7  | 933.5  | 932.5  | 925.9  |
| 22.5° | 902.7  | 899.8  | 881.1  | 887.5  | 893.6  | 901.0  | 899.1  | 903.0  | 916.5  | 916.3  | 910.4  |
| 25°   | 865.8  | 866.6  | 850.1  | 858.0  | 868.3  | 878.6  | 879.4  | 885.8  | 900.8  | 899.3  | 893.9  |
| 27.5° | 831.4  | 832.4  | 814.9  | 828.2  | 842.0  | 855.3  | 858.5  | 867.3  | 882.6  | 881.3  | 876.7  |
| 30°   | 795.2  | 796.4  | 779.5  | 797.7  | 814.4  | 830.6  | 837.5  | 849.6  | 865.1  | 865.1  | 860.2  |
| 32.5° | 757.6  | 759.8  | 742.1  | 766.4  | 785.9  | 804.8  | 816.9  | 829.4  | 847.1  | 846.6  | 842.5  |
| 35°   | 718.9  | 721.4  | 705.2  | 736.2  | 755.6  | 778.7  | 793.7  | 810.5  | 826.2  | 826.5  | 823.3  |
| 37.5° | 679.6  | 682.5  | 667.8  | 701.7  | 723.9  | 751.2  | 770.4  | 787.1  | 804.6  | 805.6  | 802.6  |
| 40°   | 640.5  | 643.7  | 630.9  | 663.6  | 691.6  | 722.1  | 744.3  | 764.0  | 783.2  | 783.7  | 781.7  |
| 42.5° | 601.3  | 604.8  | 595.2  | 627.2  | 658.9  | 691.6  | 717.7  | 740.1  | 759.8  | 761.0  | 758.8  |
| 45°   | 563.2  | 566.2  | 559.3  | 594.2  | 624.7  | 660.4  | 690.4  | 715.7  | 735.7  | 737.4  | 736.7  |
| 47.5° | 525.3  | 528.0  | 521.9  | 553.8  | 589.0  | 626.9  | 661.6  | 689.7  | 710.8  | 712.8  | 712.3  |
| 50°   | 488.2  | 490.4  | 483.7  | 517.2  | 552.1  | 592.5  | 628.6  | 661.1  | 684.7  | 686.7  | 686.5  |
| 52.5° | 451.2  | 453.5  | 447.8  | 483.0  | 514.7  | 557.3  | 596.7  | 631.8  | 655.2  | 658.2  | 658.7  |
| 55°   | 415.6  | 416.6  | 412.1  | 445.8  | 476.6  | 521.1  | 566.4  | 600.6  | 624.0  | 626.4  | 627.9  |
| 57.5° | 379.9  | 380.1  | 376.4  | 408.7  | 438.2  | 483.7  | 531.2  | 567.1  | 589.3  | 591.7  | 594.0  |
| 60°   | 344.5  | 344.2  | 340.0  | 371.3  | 399.6  | 444.6  | 494.1  | 529.7  | 551.1  | 553.4  | 556.3  |
| 62.5° | 309.3  | 308.5  | 304.9  | 333.6  | 360.2  | 404.7  | 454.4  | 488.9  | 509.3  | 510.8  | 514.7  |
| 65°   | 274.3  | 273.6  | 270.2  | 296.7  | 320.8  | 363.4  | 412.1  | 444.9  | 463.3  | 465.3  | 464.5  |
| 67.5° | 239.9  | 238.4  | 235.7  | 259.6  | 281.5  | 320.8  | 367.6  | 398.8  | 414.1  | 415.8  | 420.5  |
| 70°   | 205.4  | 203.7  | 197.6  | 222.9  | 242.1  | 277.3  | 320.8  | 348.6  | 361.4  | 363.2  | 362.4  |
| 72.5° | 171.5  | 169.8  | 163.1  | 186.5  | 202.7  | 233.5  | 272.4  | 295.5  | 306.6  | 308.0  | 308.0  |
| 75°   | 138.5  | 137.5  | 133.4  | 151.1  | 164.6  | 189.7  | 222.7  | 241.9  | 250.5  | 252.2  | 251.7  |
| 77.5° | 106.8  | 106.0  | 101.9  | 117.1  | 127.7  | 146.4  | 173.0  | 188.0  | 194.4  | 196.3  | 200.5  |
| 80°   | 76.5   | 76.3   | 69.6   | 84.6   | 89.3   | 105.1  | 124.5  | 136.1  | 139.5  | 142.2  | 145.2  |
| 82.5° | 49.0   | 49.2   | 42.6   | 55.4   | 57.3   | 67.4   | 79.5   | 86.6   | 89.1   | 91.3   | 93.5   |
| 85°   | 23.9   | 24.9   | 21.2   | 29.3   | 29.5   | 34.7   | 39.9   | 42.6   | 43.6   | 45.3   | 47.2   |
| 87.5° | 6.2    | 7.1    | 3.9    | 8.4    | 7.4    | 9.6    | 11.1   | 11.8   | 11.6   | 12.8   | 13.5   |
| 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: P837971

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3LO-30-120-EDD-90

**CANDELA DISTRIBUTION (continued):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 |
| 2.5°  | 1032.4 | 1040.3 | 1036.3 | 1049.1 | 1054.1 | 1046.2 | 1060.0 | 1060.2 | 1050.4 | 1061.9 | 1068.3 |
| 5°    | 1016.4 | 1024.5 | 1022.1 | 1035.4 | 1041.5 | 1034.6 | 1051.4 | 1054.6 | 1045.0 | 1058.0 | 1068.3 |
| 7.5°  | 1000.2 | 1009.8 | 1006.6 | 1020.1 | 1027.5 | 1022.1 | 1040.0 | 1045.2 | 1037.8 | 1052.1 | 1065.9 |
| 10°   | 986.2  | 994.3  | 990.8  | 1005.1 | 1011.5 | 1007.1 | 1024.8 | 1034.4 | 1027.5 | 1045.0 | 1061.4 |
| 12.5° | 972.4  | 979.0  | 975.1  | 986.9  | 993.0  | 987.4  | 1009.0 | 1017.9 | 1013.0 | 1031.2 | 1052.3 |
| 15°   | 954.7  | 962.0  | 956.6  | 967.2  | 971.9  | 967.0  | 984.7  | 999.9  | 993.8  | 1013.7 | 1037.1 |
| 17.5° | 941.1  | 945.3  | 937.9  | 946.3  | 949.0  | 942.4  | 960.3  | 975.3  | 970.9  | 992.5  | 1019.6 |
| 20°   | 926.1  | 929.6  | 919.2  | 923.9  | 923.7  | 915.3  | 931.8  | 946.5  | 943.6  | 967.5  | 998.2  |
| 22.5° | 909.4  | 911.1  | 899.1  | 900.0  | 899.5  | 885.8  | 900.5  | 915.5  | 914.3  | 938.4  | 972.9  |
| 25°   | 891.7  | 891.9  | 876.4  | 875.9  | 870.5  | 854.3  | 867.3  | 884.3  | 880.6  | 906.7  | 942.8  |
| 27.5° | 874.2  | 871.7  | 853.0  | 848.6  | 840.0  | 820.6  | 832.1  | 847.4  | 845.2  | 870.8  | 910.9  |
| 30°   | 855.5  | 852.3  | 829.4  | 821.3  | 808.8  | 786.4  | 796.0  | 810.2  | 811.5  | 833.8  | 875.9  |
| 32.5° | 837.8  | 829.7  | 804.3  | 792.5  | 776.8  | 750.7  | 755.9  | 770.4  | 772.3  | 795.0  | 838.3  |
| 35°   | 814.9  | 809.5  | 778.2  | 758.1  | 742.6  | 714.0  | 719.4  | 729.5  | 732.5  | 754.6  | 798.7  |
| 37.5° | 793.3  | 784.6  | 751.4  | 726.8  | 706.9  | 676.9  | 678.3  | 688.7  | 691.6  | 714.0  | 757.6  |
| 40°   | 770.9  | 758.6  | 722.9  | 694.1  | 671.2  | 639.7  | 638.0  | 648.8  | 651.0  | 672.9  | 712.3  |
| 42.5° | 747.0  | 732.2  | 692.1  | 660.6  | 634.3  | 602.3  | 598.9  | 608.2  | 610.7  | 632.1  | 670.7  |
| 45°   | 722.9  | 705.2  | 660.6  | 626.2  | 597.4  | 564.7  | 561.2  | 568.4  | 572.1  | 592.2  | 629.4  |
| 47.5° | 697.3  | 676.6  | 628.2  | 589.8  | 560.0  | 527.3  | 523.1  | 530.2  | 533.2  | 553.1  | 588.3  |
| 50°   | 670.5  | 645.4  | 594.7  | 552.4  | 522.8  | 490.6  | 484.5  | 492.8  | 495.5  | 514.2  | 548.7  |
| 52.5° | 640.9  | 613.1  | 559.0  | 514.7  | 485.2  | 454.4  | 447.1  | 455.2  | 458.4  | 476.6  | 508.3  |
| 55°   | 609.7  | 579.7  | 523.1  | 480.0  | 448.0  | 418.0  | 411.9  | 415.1  | 422.0  | 439.2  | 468.7  |
| 57.5° | 574.5  | 544.7  | 485.2  | 441.4  | 410.6  | 381.9  | 376.7  | 379.6  | 386.0  | 402.8  | 429.3  |
| 60°   | 537.1  | 505.6  | 446.6  | 402.8  | 373.0  | 345.7  | 341.0  | 343.7  | 350.6  | 365.9  | 390.5  |
| 62.5° | 500.2  | 464.8  | 406.7  | 363.2  | 336.1  | 310.8  | 309.5  | 308.5  | 314.9  | 329.7  | 351.4  |
| 65°   | 455.4  | 421.5  | 365.1  | 323.8  | 299.2  | 276.3  | 271.4  | 273.6  | 279.8  | 293.3  | 315.9  |
| 67.5° | 407.5  | 376.7  | 322.6  | 284.4  | 262.5  | 242.1  | 237.9  | 238.9  | 245.3  | 257.1  | 276.8  |
| 70°   | 356.5  | 329.5  | 279.0  | 244.8  | 226.4  | 207.2  | 204.5  | 204.7  | 210.9  | 221.2  | 238.4  |
| 72.5° | 303.1  | 278.8  | 235.0  | 205.7  | 190.4  | 176.7  | 174.2  | 171.2  | 176.9  | 185.8  | 200.5  |
| 75°   | 248.8  | 227.3  | 191.2  | 167.3  | 155.3  | 143.7  | 141.5  | 138.5  | 144.2  | 151.8  | 163.4  |
| 77.5° | 193.9  | 176.7  | 148.6  | 130.2  | 120.8  | 112.2  | 110.2  | 107.0  | 112.7  | 118.3  | 127.5  |
| 80°   | 140.2  | 127.7  | 111.0  | 91.5   | 88.3   | 82.7   | 80.7   | 77.3   | 82.7   | 86.4   | 93.3   |
| 82.5° | 90.5   | 82.2   | 72.6   | 59.1   | 58.6   | 54.4   | 53.4   | 49.5   | 54.4   | 56.6   | 61.8   |
| 85°   | 45.8   | 41.8   | 39.4   | 30.0   | 31.0   | 28.3   | 28.0   | 23.9   | 27.8   | 28.8   | 31.7   |
| 87.5° | 13.0   | 13.8   | 12.3   | 7.4    | 9.3    | 8.9    | 8.9    | 6.4    | 8.9    | 8.9    | 10.1   |
| 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: P837971

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3LO-30-120-EDD-90

**CANDELA DISTRIBUTION (continued):**

|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 | 1054.8 |
| 2.5°  | 1055.8 | 1060.0 | 1060.9 | 1060.7 | 1063.4 | 1078.2 | 1073.3 | 1078.2 |
| 5°    | 1058.2 | 1067.6 | 1070.1 | 1073.5 | 1077.9 | 1094.7 | 1089.2 | 1095.1 |
| 7.5°  | 1059.7 | 1073.7 | 1079.2 | 1085.8 | 1092.9 | 1111.6 | 1107.2 | 1113.1 |
| 10°   | 1059.7 | 1077.9 | 1085.8 | 1096.9 | 1106.5 | 1128.1 | 1123.9 | 1130.8 |
| 12.5° | 1055.3 | 1078.7 | 1089.7 | 1105.2 | 1117.5 | 1140.9 | 1139.2 | 1144.1 |
| 15°   | 1046.2 | 1075.0 | 1090.2 | 1110.2 | 1125.4 | 1151.5 | 1150.8 | 1156.7 |
| 17.5° | 1033.9 | 1068.6 | 1087.0 | 1112.1 | 1131.3 | 1160.6 | 1162.3 | 1165.5 |
| 20°   | 1018.4 | 1056.5 | 1080.6 | 1111.4 | 1135.5 | 1167.7 | 1169.9 | 1174.4 |
| 22.5° | 998.0  | 1042.0 | 1071.0 | 1108.2 | 1136.0 | 1170.7 | 1174.6 | 1178.8 |
| 25°   | 973.8  | 1024.5 | 1058.5 | 1102.0 | 1133.5 | 1170.4 | 1175.9 | 1179.5 |
| 27.5° | 946.3  | 1001.9 | 1042.5 | 1092.2 | 1126.6 | 1166.5 | 1173.1 | 1177.6 |
| 30°   | 914.3  | 977.8  | 1024.3 | 1079.4 | 1117.3 | 1159.1 | 1166.3 | 1170.7 |
| 32.5° | 881.3  | 951.2  | 1002.6 | 1062.9 | 1103.8 | 1147.3 | 1153.5 | 1156.9 |
| 35°   | 845.4  | 919.0  | 976.6  | 1041.8 | 1086.3 | 1128.4 | 1133.0 | 1136.7 |
| 37.5° | 806.3  | 884.0  | 946.8  | 1017.9 | 1061.7 | 1102.0 | 1106.2 | 1110.4 |
| 40°   | 765.9  | 847.4  | 913.3  | 988.6  | 1032.4 | 1069.8 | 1074.2 | 1077.2 |
| 42.5° | 725.3  | 806.8  | 877.6  | 954.2  | 997.7  | 1033.6 | 1036.3 | 1039.3 |
| 45°   | 684.3  | 764.7  | 837.5  | 916.0  | 959.1  | 992.8  | 993.8  | 996.2  |
| 47.5° | 642.4  | 721.2  | 793.5  | 872.5  | 915.0  | 945.8  | 946.8  | 948.8  |
| 50°   | 600.4  | 677.6  | 746.5  | 825.5  | 867.1  | 899.5  | 895.1  | 897.1  |
| 52.5° | 559.0  | 631.8  | 702.2  | 774.8  | 815.9  | 844.7  | 845.9  | 842.0  |
| 55°   | 518.4  | 587.1  | 651.8  | 721.7  | 760.8  | 783.2  | 782.4  | 783.9  |
| 57.5° | 477.3  | 541.8  | 601.1  | 665.1  | 703.2  | 724.4  | 728.8  | 723.6  |
| 60°   | 435.5  | 496.0  | 549.2  | 607.0  | 643.9  | 661.6  | 666.8  | 661.9  |
| 62.5° | 393.9  | 449.5  | 497.7  | 548.2  | 582.4  | 604.3  | 603.8  | 598.4  |
| 65°   | 352.3  | 402.8  | 445.8  | 488.6  | 518.4  | 540.3  | 539.3  | 534.4  |
| 67.5° | 314.0  | 355.5  | 394.2  | 428.9  | 454.7  | 469.7  | 474.9  | 469.0  |
| 70°   | 271.6  | 307.6  | 341.5  | 369.3  | 390.7  | 404.3  | 409.2  | 404.0  |
| 72.5° | 229.3  | 259.8  | 283.7  | 310.5  | 327.0  | 338.3  | 343.5  | 338.6  |
| 75°   | 187.5  | 212.6  | 232.0  | 252.9  | 264.5  | 274.1  | 280.0  | 275.1  |
| 77.5° | 146.9  | 166.3  | 181.8  | 197.1  | 210.4  | 212.6  | 217.8  | 214.6  |
| 80°   | 108.3  | 122.3  | 133.6  | 143.7  | 153.3  | 154.3  | 158.5  | 156.5  |
| 82.5° | 72.1   | 81.4   | 84.4   | 95.0   | 101.1  | 100.1  | 104.3  | 102.8  |
| 85°   | 38.1   | 43.8   | 49.0   | 52.2   | 55.6   | 52.4   | 56.1   | 54.6   |
| 87.5° | 12.8   | 13.5   | 11.8   | 16.7   | 18.5   | 15.7   | 18.0   | 17.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)