

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: P837988

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-2HI-35-120-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: P837988  
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-LD4-2HI-35-120-EDD-90  
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and  
RFI grid  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

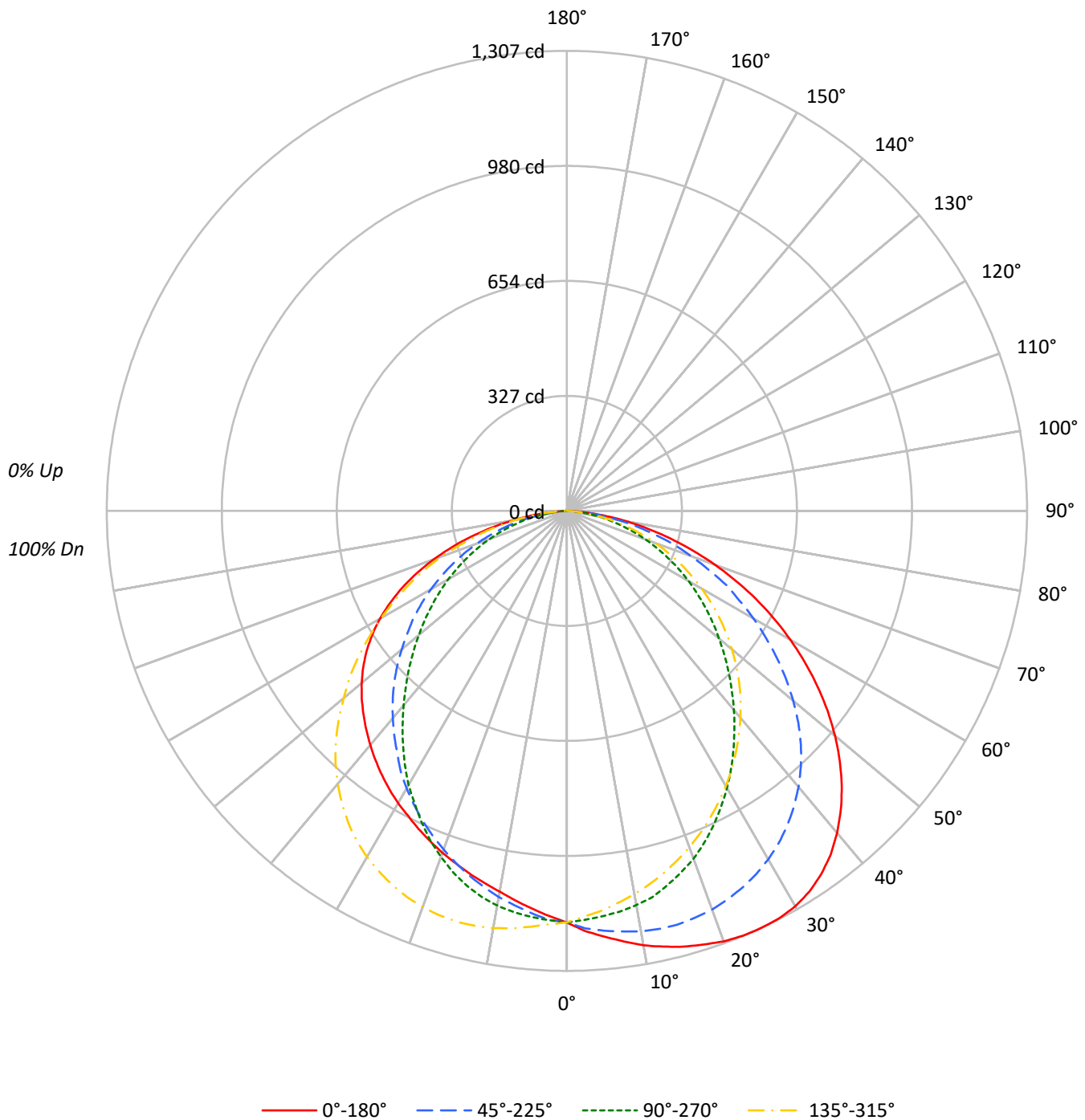
Lumens per Lamp: N/A  
Luminaire Lumens: 3429.7 lumens  
Efficiency: N/A  
Efficacy: 77.9 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: 25 FT

TEST NUMBER: P837988

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### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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°  | 3146 | 3146 | 3146 | 3146 |
| 5°  | 3279 | 3123 | 3064 | 3128 |
| 10° | 3425 | 3107 | 3002 | 3111 |
| 15° | 3571 | 3068 | 2973 | 3068 |
| 20° | 3727 | 3012 | 2960 | 2995 |
| 25° | 3881 | 2928 | 2959 | 2898 |
| 30° | 4031 | 2826 | 2979 | 2794 |
| 35° | 4139 | 2710 | 3009 | 2667 |
| 40° | 4194 | 2593 | 3051 | 2535 |
| 45° | 4202 | 2475 | 3110 | 2413 |
| 50° | 4162 | 2362 | 3186 | 2299 |
| 55° | 4076 | 2257 | 3257 | 2194 |
| 60° | 3948 | 2147 | 3301 | 2091 |
| 65° | 3771 | 2021 | 3283 | 1974 |
| 70° | 3522 | 1873 | 3167 | 1839 |
| 75° | 3170 | 1670 | 2906 | 1661 |
| 80° | 2687 | 1399 | 2442 | 1420 |
| 85° | 1868 | 926  | 1550 | 951  |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837988

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-2HI-35-120-EDD-90

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 111.0  | 3.2       |
| 10°-20°   | 321.4  | 9.4       |
| 20°-30°   | 492.6  | 14.4      |
| 30°-40°   | 598.9  | 17.5      |
| 40°-50°   | 622.6  | 18.2      |
| 50°-60°   | 562.4  | 16.4      |
| 60°-70°   | 427.6  | 12.5      |
| 70°-80°   | 238.4  | 7.0       |
| 80°-90°   | 54.9   | 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°    | 924.9  | 27.0      |
| 0°-40°    | 1523.8 | 44.4      |
| 0°-60°    | 2708.8 | 79.0      |
| 0°-90°    | 3429.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3429.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1169 | 1169 | 1169 | 1169 | 1169 |      |
| 5°  | 1214 | 1156 | 1134 | 1158 | 1214 | 117  |
| 15° | 1282 | 1101 | 1067 | 1101 | 1282 | 363  |
| 25° | 1307 | 986  | 997  | 976  | 1307 | 604  |
| 35° | 1260 | 825  | 916  | 812  | 1260 | 787  |
| 45° | 1104 | 650  | 817  | 634  | 1104 | 850  |
| 55° | 869  | 481  | 694  | 468  | 869  | 776  |
| 65° | 592  | 317  | 516  | 310  | 592  | 585  |
| 75° | 305  | 161  | 280  | 160  | 305  | 324  |
| 85° | 60   | 30   | 50   | 31   | 60   | 76   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

TEST NUMBER: P837988

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-2HI-35-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 |
| 2.5°  | 1194.9 | 1177.4 | 1177.7 | 1193.0 | 1181.3 | 1187.0 | 1170.6 | 1176.9 | 1175.0 | 1176.4 | 1163.0 |
| 5°    | 1213.7 | 1194.9 | 1194.6 | 1207.7 | 1194.6 | 1197.1 | 1176.4 | 1180.4 | 1174.4 | 1170.6 | 1156.2 |
| 7.5°  | 1233.6 | 1214.8 | 1212.9 | 1224.3 | 1207.2 | 1205.3 | 1182.4 | 1182.4 | 1171.4 | 1161.9 | 1148.3 |
| 10°   | 1253.3 | 1233.9 | 1231.4 | 1240.2 | 1218.9 | 1212.6 | 1184.8 | 1180.4 | 1166.0 | 1151.8 | 1137.1 |
| 12.5° | 1268.0 | 1248.3 | 1246.4 | 1251.9 | 1227.9 | 1216.4 | 1184.8 | 1176.4 | 1155.1 | 1135.2 | 1123.7 |
| 15°   | 1281.9 | 1261.7 | 1256.5 | 1259.3 | 1231.7 | 1216.4 | 1181.0 | 1167.9 | 1140.6 | 1114.5 | 1101.1 |
| 17.5° | 1291.7 | 1272.3 | 1267.2 | 1266.9 | 1233.6 | 1211.8 | 1172.8 | 1154.8 | 1122.1 | 1090.5 | 1077.1 |
| 20°   | 1301.5 | 1282.2 | 1275.6 | 1270.7 | 1233.1 | 1205.5 | 1160.8 | 1136.5 | 1098.4 | 1062.9 | 1051.7 |
| 22.5° | 1306.4 | 1286.5 | 1279.4 | 1272.1 | 1229.5 | 1194.1 | 1146.1 | 1115.3 | 1071.6 | 1029.4 | 1020.1 |
| 25°   | 1307.2 | 1286.8 | 1279.2 | 1268.5 | 1222.4 | 1180.4 | 1127.0 | 1089.6 | 1040.8 | 993.9  | 986.0  |
| 27.5° | 1305.1 | 1282.7 | 1275.1 | 1262.3 | 1211.8 | 1163.8 | 1104.4 | 1060.5 | 1008.1 | 956.3  | 947.8  |
| 30°   | 1297.4 | 1274.8 | 1267.4 | 1250.8 | 1196.8 | 1143.4 | 1079.6 | 1028.0 | 971.8  | 916.8  | 909.4  |
| 32.5° | 1282.2 | 1260.1 | 1254.1 | 1237.4 | 1180.4 | 1119.6 | 1050.6 | 993.1  | 931.8  | 879.1  | 868.2  |
| 35°   | 1259.8 | 1237.7 | 1233.9 | 1216.4 | 1157.5 | 1091.3 | 1019.0 | 954.9  | 889.2  | 835.5  | 824.9  |
| 37.5° | 1230.6 | 1212.1 | 1206.4 | 1189.2 | 1130.5 | 1059.1 | 982.8  | 913.5  | 845.9  | 788.1  | 781.5  |
| 40°   | 1193.8 | 1176.4 | 1172.0 | 1156.7 | 1099.2 | 1023.4 | 943.5  | 870.7  | 801.1  | 747.4  | 738.2  |
| 42.5° | 1151.8 | 1135.5 | 1133.0 | 1117.2 | 1060.5 | 983.8  | 900.9  | 826.2  | 754.5  | 702.7  | 693.4  |
| 45°   | 1104.1 | 1088.3 | 1087.7 | 1072.7 | 1018.2 | 939.9  | 856.2  | 781.2  | 709.0  | 655.3  | 650.3  |
| 47.5° | 1051.5 | 1037.3 | 1037.3 | 1023.4 | 971.0  | 891.7  | 810.1  | 734.3  | 663.2  | 615.7  | 607.0  |
| 50°   | 994.2  | 980.8  | 976.8  | 969.9  | 918.9  | 839.0  | 761.6  | 688.5  | 617.9  | 572.6  | 564.2  |
| 52.5° | 933.1  | 921.7  | 924.4  | 911.9  | 862.5  | 784.2  | 712.5  | 637.0  | 572.4  | 531.2  | 522.7  |
| 55°   | 868.8  | 852.4  | 854.9  | 850.2  | 803.6  | 727.8  | 657.4  | 594.4  | 527.6  | 488.9  | 481.0  |
| 57.5° | 802.0  | 780.7  | 789.4  | 786.7  | 740.9  | 670.0  | 607.0  | 546.2  | 483.2  | 447.5  | 439.8  |
| 60°   | 733.5  | 713.1  | 722.1  | 719.6  | 676.5  | 612.2  | 554.9  | 498.5  | 439.0  | 406.6  | 398.9  |
| 62.5° | 663.2  | 644.4  | 652.5  | 650.6  | 611.1  | 553.0  | 503.1  | 451.3  | 394.6  | 365.4  | 358.3  |
| 65°   | 592.3  | 574.3  | 581.6  | 580.3  | 543.7  | 499.6  | 449.9  | 402.5  | 349.9  | 324.5  | 317.4  |
| 67.5° | 519.7  | 503.1  | 509.9  | 509.9  | 476.4  | 434.1  | 396.5  | 353.1  | 306.0  | 284.1  | 277.6  |
| 70°   | 447.7  | 432.2  | 438.2  | 437.7  | 409.3  | 374.9  | 342.5  | 303.8  | 261.5  | 243.5  | 238.1  |
| 72.5° | 375.2  | 361.6  | 367.0  | 366.5  | 342.8  | 320.7  | 288.5  | 255.0  | 218.1  | 203.7  | 198.8  |
| 75°   | 304.9  | 292.0  | 297.2  | 296.7  | 277.3  | 256.6  | 235.1  | 207.2  | 175.6  | 165.5  | 160.6  |
| 77.5° | 237.8  | 224.7  | 229.1  | 229.1  | 214.9  | 199.9  | 182.7  | 161.2  | 138.8  | 127.9  | 124.3  |
| 80°   | 173.4  | 167.2  | 165.0  | 165.2  | 155.7  | 145.9  | 137.2  | 116.4  | 100.1  | 92.7   | 90.3   |
| 82.5° | 114.0  | 108.8  | 106.6  | 107.2  | 101.7  | 95.7   | 90.3   | 75.8   | 64.9   | 60.5   | 59.2   |
| 85°   | 60.5   | 56.7   | 54.8   | 56.2   | 55.1   | 51.8   | 49.1   | 39.3   | 32.4   | 30.8   | 30.0   |
| 87.5° | 19.1   | 16.6   | 15.3   | 20.2   | 17.2   | 15.3   | 14.7   | 11.7   | 9.0    | 9.0    | 8.7    |
| 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°    | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 |
| 2.5°  | 1167.4 | 1167.4 | 1156.7 | 1154.3 | 1153.2 | 1154.5 | 1143.9 | 1142.0 | 1157.3 | 1152.1 | 1140.4 |
| 5°    | 1158.1 | 1157.5 | 1142.5 | 1139.8 | 1139.8 | 1138.2 | 1126.2 | 1123.5 | 1138.7 | 1134.4 | 1121.5 |
| 7.5°  | 1146.6 | 1145.0 | 1127.3 | 1125.4 | 1122.6 | 1121.5 | 1108.2 | 1106.3 | 1119.4 | 1116.6 | 1104.6 |
| 10°   | 1132.7 | 1131.1 | 1110.1 | 1108.7 | 1105.7 | 1103.5 | 1091.0 | 1089.6 | 1103.0 | 1098.6 | 1089.1 |
| 12.5° | 1114.5 | 1111.5 | 1089.9 | 1088.6 | 1086.1 | 1085.3 | 1073.0 | 1072.5 | 1087.2 | 1082.8 | 1072.7 |
| 15°   | 1090.5 | 1088.0 | 1064.0 | 1064.6 | 1064.8 | 1064.8 | 1055.0 | 1054.5 | 1068.9 | 1067.0 | 1056.1 |
| 17.5° | 1064.0 | 1060.7 | 1037.8 | 1039.5 | 1041.4 | 1043.6 | 1035.9 | 1037.3 | 1052.6 | 1050.1 | 1040.3 |
| 20°   | 1034.0 | 1030.7 | 1008.4 | 1013.0 | 1017.1 | 1021.5 | 1016.6 | 1020.4 | 1034.6 | 1033.5 | 1026.1 |
| 22.5° | 1000.5 | 997.2  | 976.5  | 983.6  | 990.4  | 998.6  | 996.4  | 1000.7 | 1015.7 | 1015.5 | 1008.9 |
| 25°   | 959.6  | 960.4  | 942.1  | 950.8  | 962.3  | 973.8  | 974.6  | 981.7  | 998.3  | 996.7  | 990.7  |
| 27.5° | 921.4  | 922.5  | 903.1  | 917.9  | 933.1  | 947.8  | 951.4  | 961.2  | 978.1  | 976.8  | 971.6  |
| 30°   | 881.3  | 882.7  | 863.9  | 884.0  | 902.6  | 920.6  | 928.2  | 941.6  | 958.8  | 958.8  | 953.3  |
| 32.5° | 839.6  | 842.0  | 822.4  | 849.4  | 871.0  | 891.9  | 905.3  | 919.2  | 938.8  | 938.3  | 933.7  |
| 35°   | 796.8  | 799.5  | 781.5  | 815.9  | 837.4  | 863.0  | 879.7  | 898.2  | 915.7  | 915.9  | 912.4  |
| 37.5° | 753.2  | 756.4  | 740.1  | 777.7  | 802.2  | 832.5  | 853.8  | 872.3  | 891.7  | 892.8  | 889.5  |
| 40°   | 709.8  | 713.3  | 699.2  | 735.4  | 766.5  | 800.3  | 824.9  | 846.7  | 868.0  | 868.5  | 866.3  |
| 42.5° | 666.4  | 670.3  | 659.6  | 695.1  | 730.2  | 766.5  | 795.4  | 820.2  | 842.0  | 843.4  | 841.0  |
| 45°   | 624.2  | 627.4  | 619.8  | 658.5  | 692.3  | 731.9  | 765.1  | 793.2  | 815.3  | 817.2  | 816.4  |
| 47.5° | 582.2  | 585.2  | 578.4  | 613.8  | 652.8  | 694.8  | 733.2  | 764.3  | 787.8  | 790.0  | 789.4  |
| 50°   | 541.0  | 543.5  | 536.1  | 573.2  | 611.9  | 656.6  | 696.7  | 732.7  | 758.9  | 761.1  | 760.8  |
| 52.5° | 500.1  | 502.6  | 496.3  | 535.3  | 570.5  | 617.6  | 661.3  | 700.3  | 726.2  | 729.4  | 730.0  |
| 55°   | 460.6  | 461.7  | 456.7  | 494.1  | 528.2  | 577.5  | 627.7  | 665.6  | 691.5  | 694.3  | 695.9  |
| 57.5° | 421.0  | 421.3  | 417.2  | 452.9  | 485.6  | 536.1  | 588.7  | 628.5  | 653.1  | 655.8  | 658.3  |
| 60°   | 381.8  | 381.5  | 376.8  | 411.5  | 442.8  | 492.7  | 547.5  | 587.1  | 610.8  | 613.3  | 616.5  |
| 62.5° | 342.8  | 341.9  | 337.9  | 369.8  | 399.2  | 448.6  | 503.6  | 541.8  | 564.5  | 566.1  | 570.5  |
| 65°   | 304.0  | 303.2  | 299.4  | 328.9  | 355.6  | 402.8  | 456.7  | 493.0  | 513.5  | 515.6  | 514.8  |
| 67.5° | 265.9  | 264.2  | 261.2  | 287.7  | 311.9  | 355.6  | 407.4  | 442.0  | 458.9  | 460.8  | 466.0  |
| 70°   | 227.7  | 225.8  | 219.0  | 247.1  | 268.3  | 307.3  | 355.6  | 386.4  | 400.6  | 402.5  | 401.7  |
| 72.5° | 190.1  | 188.2  | 180.8  | 206.7  | 224.7  | 258.8  | 301.9  | 327.5  | 339.8  | 341.4  | 341.4  |
| 75°   | 153.5  | 152.4  | 147.8  | 167.4  | 182.4  | 210.2  | 246.8  | 268.0  | 277.6  | 279.5  | 279.0  |
| 77.5° | 118.3  | 117.5  | 112.9  | 129.8  | 141.5  | 162.2  | 191.7  | 208.3  | 215.4  | 217.6  | 222.2  |
| 80°   | 84.8   | 84.5   | 77.2   | 93.8   | 99.0   | 116.4  | 138.0  | 150.8  | 154.6  | 157.6  | 160.9  |
| 82.5° | 54.3   | 54.5   | 47.2   | 61.4   | 63.5   | 74.7   | 88.1   | 96.0   | 98.7   | 101.2  | 103.6  |
| 85°   | 26.5   | 27.5   | 23.5   | 32.4   | 32.7   | 38.4   | 44.2   | 47.2   | 48.3   | 50.2   | 52.4   |
| 87.5° | 6.8    | 7.9    | 4.4    | 9.3    | 8.2    | 10.6   | 12.3   | 13.1   | 12.8   | 14.2   | 15.0   |
| 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: P837988

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-2HI-35-120-EDD-90

**CANDELA DISTRIBUTION (continued):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 |
| 2.5°  | 1144.2 | 1152.9 | 1148.5 | 1162.7 | 1168.2 | 1159.4 | 1174.7 | 1175.0 | 1164.1 | 1176.9 | 1184.0 |
| 5°    | 1126.5 | 1135.5 | 1132.7 | 1147.5 | 1154.3 | 1146.6 | 1165.2 | 1168.7 | 1158.1 | 1172.5 | 1184.0 |
| 7.5°  | 1108.5 | 1119.1 | 1115.5 | 1130.5 | 1138.7 | 1132.7 | 1152.6 | 1158.4 | 1150.2 | 1166.0 | 1181.3 |
| 10°   | 1092.9 | 1101.9 | 1098.1 | 1113.9 | 1121.0 | 1116.1 | 1135.7 | 1146.4 | 1138.7 | 1158.1 | 1176.4 |
| 12.5° | 1077.6 | 1085.0 | 1080.6 | 1093.7 | 1100.6 | 1094.3 | 1118.3 | 1128.1 | 1122.6 | 1142.8 | 1166.3 |
| 15°   | 1058.0 | 1066.2 | 1060.2 | 1071.9 | 1077.1 | 1071.6 | 1091.3 | 1108.2 | 1101.4 | 1123.5 | 1149.4 |
| 17.5° | 1043.0 | 1047.6 | 1039.5 | 1048.7 | 1051.7 | 1044.4 | 1064.3 | 1080.9 | 1076.0 | 1100.0 | 1130.0 |
| 20°   | 1026.4 | 1030.2 | 1018.7 | 1023.9 | 1023.7 | 1014.4 | 1032.7 | 1049.0 | 1045.7 | 1072.2 | 1106.3 |
| 22.5° | 1007.8 | 1009.7 | 996.4  | 997.5  | 996.9  | 981.7  | 998.0  | 1014.7 | 1013.3 | 1040.0 | 1078.2 |
| 25°   | 988.2  | 988.5  | 971.3  | 970.8  | 964.8  | 946.8  | 961.2  | 980.0  | 975.9  | 1004.8 | 1044.9 |
| 27.5° | 968.8  | 966.1  | 945.4  | 940.5  | 930.9  | 909.4  | 922.2  | 939.1  | 936.7  | 965.0  | 1009.5 |
| 30°   | 948.1  | 944.6  | 919.2  | 910.2  | 896.3  | 871.5  | 882.1  | 897.9  | 899.3  | 924.1  | 970.8  |
| 32.5° | 928.5  | 919.5  | 891.4  | 878.3  | 860.9  | 832.0  | 837.7  | 853.8  | 856.0  | 881.0  | 929.0  |
| 35°   | 903.1  | 897.1  | 862.5  | 840.1  | 823.0  | 791.3  | 797.3  | 808.5  | 811.8  | 836.3  | 885.1  |
| 37.5° | 879.1  | 869.6  | 832.8  | 805.5  | 783.4  | 750.2  | 751.8  | 763.2  | 766.5  | 791.3  | 839.6  |
| 40°   | 854.3  | 840.7  | 801.1  | 769.2  | 743.9  | 709.0  | 707.1  | 719.1  | 721.5  | 745.8  | 789.4  |
| 42.5° | 827.9  | 811.5  | 767.1  | 732.2  | 703.0  | 667.5  | 663.7  | 674.1  | 676.8  | 700.5  | 743.3  |
| 45°   | 801.1  | 781.5  | 732.2  | 694.0  | 662.1  | 625.8  | 622.0  | 629.9  | 634.0  | 656.3  | 697.5  |
| 47.5° | 772.8  | 749.9  | 696.2  | 653.6  | 620.6  | 584.4  | 579.7  | 587.6  | 590.9  | 613.0  | 652.0  |
| 50°   | 743.1  | 715.2  | 659.1  | 612.2  | 579.5  | 543.7  | 536.9  | 546.2  | 549.2  | 569.9  | 608.1  |
| 52.5° | 710.3  | 679.5  | 619.5  | 570.5  | 537.7  | 503.6  | 495.5  | 504.5  | 508.0  | 528.2  | 563.4  |
| 55°   | 675.7  | 642.4  | 579.7  | 532.0  | 496.6  | 463.3  | 456.5  | 460.0  | 467.7  | 486.7  | 519.5  |
| 57.5° | 636.7  | 603.7  | 537.7  | 489.2  | 455.1  | 423.2  | 417.5  | 420.8  | 427.8  | 446.4  | 475.8  |
| 60°   | 595.3  | 560.4  | 494.9  | 446.4  | 413.4  | 383.1  | 377.9  | 380.9  | 388.6  | 405.5  | 432.7  |
| 62.5° | 554.4  | 515.1  | 450.7  | 402.5  | 372.5  | 344.4  | 343.0  | 341.9  | 349.0  | 365.4  | 389.4  |
| 65°   | 504.7  | 467.1  | 404.7  | 358.9  | 331.6  | 306.2  | 300.8  | 303.2  | 310.0  | 325.0  | 350.1  |
| 67.5° | 451.6  | 417.5  | 357.5  | 315.2  | 291.0  | 268.3  | 263.7  | 264.8  | 271.9  | 285.0  | 306.8  |
| 70°   | 395.1  | 365.1  | 309.2  | 271.3  | 250.9  | 229.6  | 226.6  | 226.9  | 233.7  | 245.1  | 264.2  |
| 72.5° | 335.9  | 309.0  | 260.4  | 228.0  | 211.1  | 195.8  | 193.1  | 189.8  | 196.1  | 205.9  | 222.2  |
| 75°   | 275.7  | 252.0  | 211.9  | 185.4  | 172.1  | 159.2  | 156.8  | 153.5  | 159.8  | 168.2  | 181.1  |
| 77.5° | 214.9  | 195.8  | 164.7  | 144.2  | 133.9  | 124.3  | 122.2  | 118.6  | 124.9  | 131.2  | 141.2  |
| 80°   | 155.4  | 141.5  | 123.0  | 101.4  | 97.9   | 91.6   | 89.4   | 85.6   | 91.6   | 95.7   | 103.3  |
| 82.5° | 100.3  | 91.1   | 80.4   | 65.4   | 64.9   | 60.3   | 59.2   | 54.8   | 60.3   | 62.7   | 68.4   |
| 85°   | 50.7   | 46.4   | 43.6   | 33.3   | 34.4   | 31.4   | 31.1   | 26.5   | 30.8   | 31.9   | 35.2   |
| 87.5° | 14.5   | 15.3   | 13.6   | 8.2    | 10.4   | 9.8    | 9.8    | 7.1    | 9.8    | 9.8    | 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    |



TEST NUMBER: P837988

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**CANDELA DISTRIBUTION (continued):**

|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 | 1169.0 |
| 2.5°  | 1170.1 | 1174.7 | 1175.8 | 1175.5 | 1178.5 | 1194.9 | 1189.4 | 1194.9 |
| 5°    | 1172.8 | 1183.2 | 1185.9 | 1189.7 | 1194.6 | 1213.2 | 1207.2 | 1213.7 |
| 7.5°  | 1174.4 | 1190.0 | 1196.0 | 1203.4 | 1211.3 | 1232.0 | 1227.1 | 1233.6 |
| 10°   | 1174.4 | 1194.6 | 1203.4 | 1215.6 | 1226.3 | 1250.3 | 1245.6 | 1253.3 |
| 12.5° | 1169.5 | 1195.4 | 1207.7 | 1224.9 | 1238.5 | 1264.4 | 1262.5 | 1268.0 |
| 15°   | 1159.4 | 1191.4 | 1208.3 | 1230.3 | 1247.3 | 1276.2 | 1275.3 | 1281.9 |
| 17.5° | 1145.8 | 1184.3 | 1204.7 | 1232.5 | 1253.8 | 1286.2 | 1288.2 | 1291.7 |
| 20°   | 1128.6 | 1170.9 | 1197.6 | 1231.7 | 1258.4 | 1294.2 | 1296.6 | 1301.5 |
| 22.5° | 1106.0 | 1154.8 | 1187.0 | 1228.2 | 1259.0 | 1297.4 | 1301.8 | 1306.4 |
| 25°   | 1079.3 | 1135.5 | 1173.1 | 1221.3 | 1256.3 | 1297.2 | 1303.2 | 1307.2 |
| 27.5° | 1048.7 | 1110.4 | 1155.4 | 1210.4 | 1248.6 | 1292.8 | 1300.2 | 1305.1 |
| 30°   | 1013.3 | 1083.6 | 1135.2 | 1196.3 | 1238.3 | 1284.6 | 1292.5 | 1297.4 |
| 32.5° | 976.8  | 1054.2 | 1111.2 | 1178.0 | 1223.3 | 1271.5 | 1278.3 | 1282.2 |
| 35°   | 936.9  | 1018.5 | 1082.3 | 1154.5 | 1203.9 | 1250.5 | 1255.7 | 1259.8 |
| 37.5° | 893.6  | 979.8  | 1049.3 | 1128.1 | 1176.6 | 1221.3 | 1226.0 | 1230.6 |
| 40°   | 848.9  | 939.1  | 1012.2 | 1095.6 | 1144.2 | 1185.6 | 1190.5 | 1193.8 |
| 42.5° | 803.9  | 894.1  | 972.7  | 1057.5 | 1105.7 | 1145.5 | 1148.5 | 1151.8 |
| 45°   | 758.3  | 847.5  | 928.2  | 1015.2 | 1062.9 | 1100.3 | 1101.4 | 1104.1 |
| 47.5° | 712.0  | 799.2  | 879.4  | 966.9  | 1014.1 | 1048.2 | 1049.3 | 1051.5 |
| 50°   | 665.3  | 751.0  | 827.3  | 914.9  | 960.9  | 996.9  | 992.0  | 994.2  |
| 52.5° | 619.5  | 700.3  | 778.2  | 858.7  | 904.2  | 936.1  | 937.5  | 933.1  |
| 55°   | 574.5  | 650.6  | 722.3  | 799.8  | 843.1  | 868.0  | 867.1  | 868.8  |
| 57.5° | 529.0  | 600.4  | 666.2  | 737.1  | 779.3  | 802.8  | 807.7  | 802.0  |
| 60°   | 482.6  | 549.7  | 608.6  | 672.7  | 713.6  | 733.2  | 739.0  | 733.5  |
| 62.5° | 436.6  | 498.2  | 551.6  | 607.5  | 645.4  | 669.7  | 669.2  | 663.2  |
| 65°   | 390.5  | 446.4  | 494.1  | 541.5  | 574.5  | 598.8  | 597.7  | 592.3  |
| 67.5° | 347.9  | 394.0  | 436.8  | 475.3  | 503.9  | 520.6  | 526.3  | 519.7  |
| 70°   | 301.0  | 340.9  | 378.5  | 409.3  | 433.0  | 448.0  | 453.5  | 447.7  |
| 72.5° | 254.1  | 288.0  | 314.4  | 344.1  | 362.4  | 374.9  | 380.7  | 375.2  |
| 75°   | 207.8  | 235.6  | 257.1  | 280.3  | 293.1  | 303.8  | 310.3  | 304.9  |
| 77.5° | 162.8  | 184.3  | 201.5  | 218.4  | 233.1  | 235.6  | 241.3  | 237.8  |
| 80°   | 120.0  | 135.5  | 148.1  | 159.2  | 169.9  | 171.0  | 175.6  | 173.4  |
| 82.5° | 79.9   | 90.3   | 93.5   | 105.3  | 112.1  | 111.0  | 115.6  | 114.0  |
| 85°   | 42.3   | 48.5   | 54.3   | 57.8   | 61.6   | 58.1   | 62.2   | 60.5   |
| 87.5° | 14.2   | 15.0   | 13.1   | 18.5   | 20.5   | 17.5   | 19.9   | 19.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)