

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: P837880

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-2HI-35-120-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: P837880  
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  
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and  
RFI grid  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

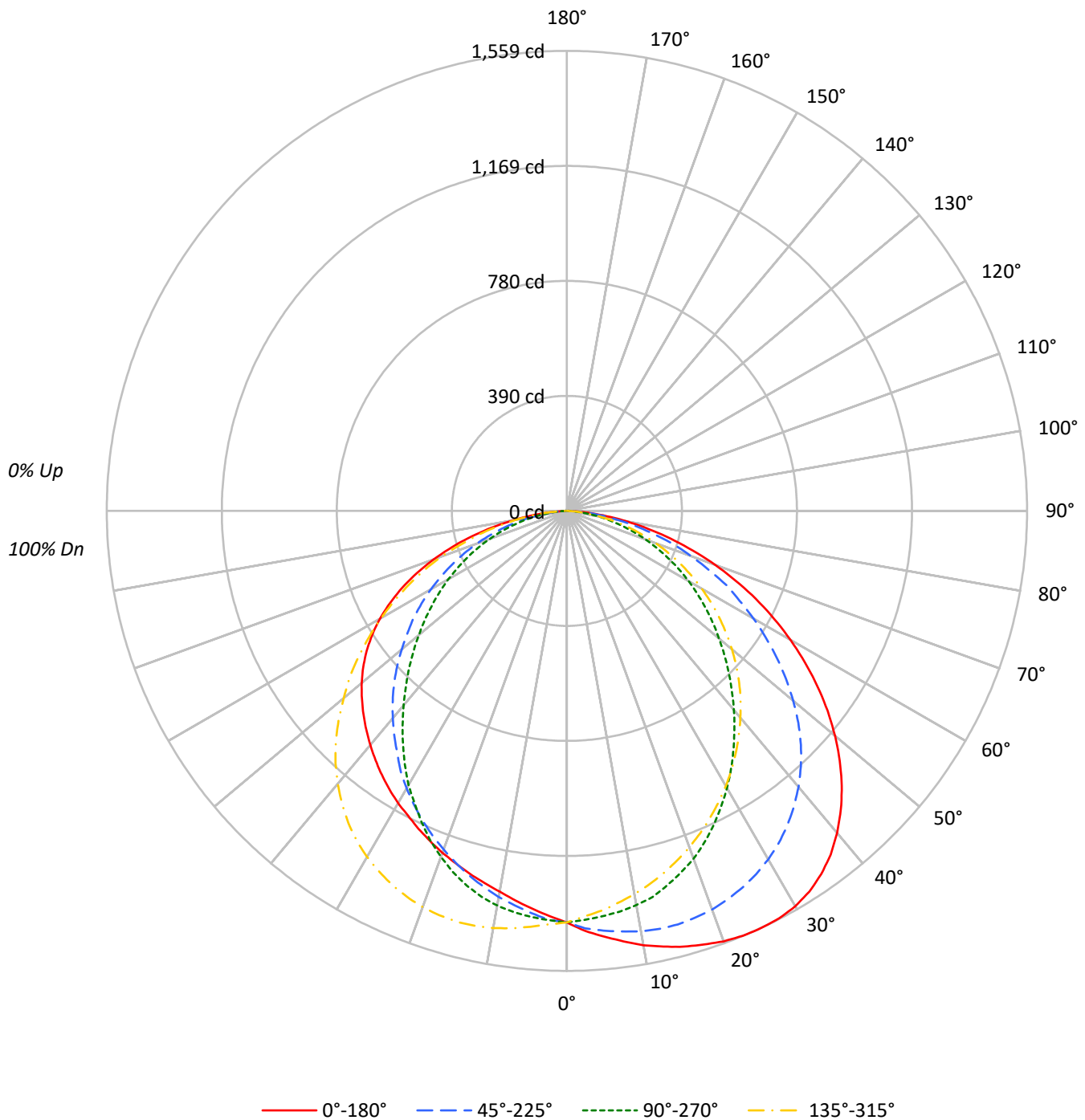
Lumens per Lamp: N/A  
Luminaire Lumens: 4090.8 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  |  | 94  | 91  | 89  |  | 90  |
| 2   | 99  | 91  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  |  | 82  | 77  | 73  |  | 79  |
| 3   | 90  | 79  | 71  | 65  | 88  | 78  | 70  | 64  | 75  | 68  | 63  |  | 72  | 66  | 62  |  | 69  |
| 4   | 82  | 70  | 61  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 53  |  | 64  | 58  | 53  |  | 62  |
| 5   | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 59  | 52  | 46  |  | 57  | 51  | 46  |  | 56  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  |  | 52  | 45  | 40  |  | 50  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  |  | 47  | 40  | 35  |  | 46  |
| 8   | 60  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 45  | 37  | 32  |  | 43  | 37  | 32  |  | 42  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  |  | 40  | 33  | 28  |  | 39  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  |  | 37  | 30  | 26  |  | 36  |

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

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 3752 | 3752 | 3752 | 3752 |
| 5°  | 3911 | 3725 | 3655 | 3731 |
| 10° | 4085 | 3706 | 3581 | 3711 |
| 15° | 4260 | 3659 | 3546 | 3660 |
| 20° | 4446 | 3592 | 3530 | 3572 |
| 25° | 4630 | 3492 | 3530 | 3456 |
| 30° | 4809 | 3370 | 3553 | 3333 |
| 35° | 4936 | 3232 | 3589 | 3181 |
| 40° | 5002 | 3093 | 3639 | 3023 |
| 45° | 5012 | 2952 | 3710 | 2878 |
| 50° | 4965 | 2817 | 3800 | 2743 |
| 55° | 4861 | 2692 | 3885 | 2617 |
| 60° | 4709 | 2561 | 3937 | 2495 |
| 65° | 4498 | 2411 | 3916 | 2355 |
| 70° | 4202 | 2234 | 3777 | 2193 |
| 75° | 3780 | 1992 | 3466 | 1982 |
| 80° | 3206 | 1669 | 2913 | 1694 |
| 85° | 2229 | 1105 | 1846 | 1136 |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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TEST NUMBER: P837880

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

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 132.4  | 3.2       |
| 10°-20°   | 383.4  | 9.4       |
| 20°-30°   | 587.5  | 14.4      |
| 30°-40°   | 714.4  | 17.5      |
| 40°-50°   | 742.6  | 18.2      |
| 50°-60°   | 670.8  | 16.4      |
| 60°-70°   | 510.0  | 12.5      |
| 70°-80°   | 284.3  | 7.0       |
| 80°-90°   | 65.5   | 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°    | 1103.2 | 27.0      |
| 0°-40°    | 1817.6 | 44.4      |
| 0°-60°    | 3231.0 | 79.0      |
| 0°-90°    | 4090.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4090.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1394 | 1394 | 1394 | 1394 | 1394 |      |
| 5°  | 1448 | 1379 | 1353 | 1381 | 1448 | 140  |
| 15° | 1529 | 1313 | 1273 | 1314 | 1529 | 434  |
| 25° | 1559 | 1176 | 1189 | 1164 | 1559 | 720  |
| 35° | 1503 | 984  | 1092 | 968  | 1503 | 938  |
| 45° | 1317 | 776  | 975  | 756  | 1317 | 1014 |
| 55° | 1036 | 574  | 828  | 558  | 1036 | 925  |
| 65° | 706  | 379  | 615  | 370  | 706  | 698  |
| 75° | 364  | 192  | 333  | 191  | 364  | 386  |
| 85° | 72   | 36   | 60   | 37   | 72   | 91   |
| 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°    | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 |
| 2.5°  | 1425.2 | 1404.4 | 1404.7 | 1423.0 | 1409.0 | 1415.8 | 1396.3 | 1403.8 | 1401.5 | 1403.1 | 1387.2 |
| 5°    | 1447.7 | 1425.2 | 1424.9 | 1440.5 | 1424.9 | 1427.8 | 1403.1 | 1408.0 | 1400.8 | 1396.3 | 1379.1 |
| 7.5°  | 1471.4 | 1449.0 | 1446.7 | 1460.4 | 1439.9 | 1437.6 | 1410.3 | 1410.3 | 1397.3 | 1385.9 | 1369.6 |
| 10°   | 1494.8 | 1471.8 | 1468.8 | 1479.2 | 1453.9 | 1446.4 | 1413.2 | 1408.0 | 1390.8 | 1373.9 | 1356.3 |
| 12.5° | 1512.4 | 1489.0 | 1486.7 | 1493.2 | 1464.6 | 1450.9 | 1413.2 | 1403.1 | 1377.8 | 1354.0 | 1340.4 |
| 15°   | 1529.0 | 1504.9 | 1498.7 | 1502.0 | 1469.1 | 1450.9 | 1408.7 | 1393.0 | 1360.5 | 1329.3 | 1313.4 |
| 17.5° | 1540.7 | 1517.6 | 1511.4 | 1511.1 | 1471.4 | 1445.4 | 1398.9 | 1377.4 | 1338.4 | 1300.7 | 1284.7 |
| 20°   | 1552.4 | 1529.3 | 1521.5 | 1515.7 | 1470.8 | 1437.9 | 1384.6 | 1355.6 | 1310.1 | 1267.8 | 1254.5 |
| 22.5° | 1558.3 | 1534.5 | 1526.1 | 1517.3 | 1466.5 | 1424.3 | 1367.0 | 1330.3 | 1278.2 | 1227.8 | 1216.8 |
| 25°   | 1559.2 | 1534.8 | 1525.7 | 1513.1 | 1458.1 | 1408.0 | 1344.3 | 1299.7 | 1241.5 | 1185.5 | 1176.1 |
| 27.5° | 1556.6 | 1530.0 | 1520.9 | 1505.6 | 1445.4 | 1388.2 | 1317.3 | 1264.9 | 1202.4 | 1140.6 | 1130.6 |
| 30°   | 1547.5 | 1520.5 | 1511.8 | 1491.9 | 1427.5 | 1363.8 | 1287.7 | 1226.2 | 1159.2 | 1093.5 | 1084.7 |
| 32.5° | 1529.3 | 1503.0 | 1495.8 | 1476.0 | 1408.0 | 1335.5 | 1253.2 | 1184.6 | 1111.4 | 1048.6 | 1035.6 |
| 35°   | 1502.6 | 1476.3 | 1471.8 | 1450.9 | 1380.7 | 1301.6 | 1215.5 | 1139.0 | 1060.6 | 996.6  | 983.9  |
| 37.5° | 1467.8 | 1445.7 | 1438.9 | 1418.4 | 1348.5 | 1263.3 | 1172.2 | 1089.6 | 1008.9 | 940.0  | 932.2  |
| 40°   | 1423.9 | 1403.1 | 1397.9 | 1379.7 | 1311.1 | 1220.7 | 1125.4 | 1038.5 | 955.6  | 891.5  | 880.4  |
| 42.5° | 1373.9 | 1354.3 | 1351.4 | 1332.5 | 1264.9 | 1173.5 | 1074.6 | 985.5  | 900.0  | 838.2  | 827.1  |
| 45°   | 1316.9 | 1298.1 | 1297.4 | 1279.5 | 1214.5 | 1121.1 | 1021.3 | 931.8  | 845.6  | 781.6  | 775.7  |
| 47.5° | 1254.2 | 1237.2 | 1237.2 | 1220.7 | 1158.2 | 1063.6 | 966.3  | 875.9  | 791.0  | 734.4  | 724.0  |
| 50°   | 1185.9 | 1169.9 | 1165.0 | 1156.9 | 1096.1 | 1000.8 | 908.4  | 821.3  | 737.0  | 683.0  | 672.9  |
| 52.5° | 1113.0 | 1099.3 | 1102.6 | 1087.6 | 1028.8 | 935.4  | 849.9  | 759.8  | 682.7  | 633.6  | 623.5  |
| 55°   | 1036.2 | 1016.7 | 1019.7 | 1014.1 | 958.5  | 868.1  | 784.2  | 709.0  | 629.4  | 583.2  | 573.7  |
| 57.5° | 956.6  | 931.2  | 941.6  | 938.3  | 883.7  | 799.1  | 724.0  | 651.5  | 576.3  | 533.7  | 524.6  |
| 60°   | 874.9  | 850.5  | 861.3  | 858.3  | 806.9  | 730.2  | 661.9  | 594.6  | 523.7  | 484.9  | 475.8  |
| 62.5° | 791.0  | 768.6  | 778.3  | 776.0  | 728.9  | 659.6  | 600.1  | 538.3  | 470.6  | 435.8  | 427.4  |
| 65°   | 706.4  | 685.0  | 693.8  | 692.1  | 648.5  | 595.9  | 536.7  | 480.1  | 417.3  | 387.0  | 378.6  |
| 67.5° | 619.9  | 600.1  | 608.2  | 608.2  | 568.2  | 517.8  | 472.9  | 421.2  | 364.9  | 338.9  | 331.1  |
| 70°   | 534.1  | 515.5  | 522.7  | 522.0  | 488.2  | 447.2  | 408.5  | 362.3  | 311.9  | 290.4  | 283.9  |
| 72.5° | 447.5  | 431.3  | 437.8  | 437.1  | 408.8  | 382.5  | 344.1  | 304.1  | 260.2  | 243.0  | 237.1  |
| 75°   | 363.6  | 348.3  | 354.5  | 353.9  | 330.8  | 306.1  | 280.4  | 247.2  | 209.5  | 197.4  | 191.6  |
| 77.5° | 283.6  | 268.0  | 273.2  | 273.2  | 256.3  | 238.4  | 217.9  | 192.2  | 165.6  | 152.5  | 148.3  |
| 80°   | 206.9  | 199.4  | 196.8  | 197.1  | 185.7  | 174.0  | 163.6  | 138.9  | 119.4  | 110.6  | 107.7  |
| 82.5° | 136.0  | 129.8  | 127.2  | 127.8  | 121.3  | 114.2  | 107.7  | 90.4   | 77.4   | 72.2   | 70.6   |
| 85°   | 72.2   | 67.7   | 65.4   | 67.0   | 65.7   | 61.8   | 58.5   | 46.8   | 38.7   | 36.8   | 35.8   |
| 87.5° | 22.8   | 19.8   | 18.2   | 24.1   | 20.5   | 18.2   | 17.6   | 14.0   | 10.7   | 10.7   | 10.4   |
| 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°    | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 |
| 2.5°  | 1392.4 | 1392.4 | 1379.7 | 1376.8 | 1375.5 | 1377.1 | 1364.4 | 1362.1 | 1380.4 | 1374.2 | 1360.2 |
| 5°    | 1381.3 | 1380.7 | 1362.8 | 1359.5 | 1359.5 | 1357.6 | 1343.3 | 1340.0 | 1358.2 | 1353.0 | 1337.7 |
| 7.5°  | 1367.7 | 1365.7 | 1344.6 | 1342.3 | 1339.0 | 1337.7 | 1321.8 | 1319.5 | 1335.1 | 1331.9 | 1317.6 |
| 10°   | 1351.1 | 1349.1 | 1324.1 | 1322.5 | 1318.9 | 1316.3 | 1301.3 | 1299.7 | 1315.6 | 1310.4 | 1299.0 |
| 12.5° | 1329.3 | 1325.7 | 1300.0 | 1298.4 | 1295.5 | 1294.5 | 1279.9 | 1279.2 | 1296.8 | 1291.6 | 1279.5 |
| 15°   | 1300.7 | 1297.7 | 1269.1 | 1269.8 | 1270.1 | 1270.1 | 1258.4 | 1257.7 | 1275.0 | 1272.7 | 1259.7 |
| 17.5° | 1269.1 | 1265.2 | 1237.9 | 1239.8 | 1242.1 | 1244.7 | 1235.6 | 1237.2 | 1255.5 | 1252.5 | 1240.8 |
| 20°   | 1233.3 | 1229.4 | 1202.8 | 1208.3 | 1213.2 | 1218.4 | 1212.5 | 1217.1 | 1234.0 | 1232.7 | 1223.9 |
| 22.5° | 1193.3 | 1189.4 | 1164.7 | 1173.2 | 1181.3 | 1191.1 | 1188.5 | 1193.7 | 1211.6 | 1211.2 | 1203.4 |
| 25°   | 1144.6 | 1145.5 | 1123.7 | 1134.1 | 1147.8 | 1161.5 | 1162.4 | 1170.9 | 1190.7 | 1188.8 | 1181.6 |
| 27.5° | 1099.0 | 1100.3 | 1077.2 | 1094.8 | 1113.0 | 1130.6 | 1134.8 | 1146.5 | 1166.7 | 1165.0 | 1158.9 |
| 30°   | 1051.2 | 1052.8 | 1030.4 | 1054.5 | 1076.6 | 1098.0 | 1107.1 | 1123.1 | 1143.6 | 1143.6 | 1137.1 |
| 32.5° | 1001.4 | 1004.4 | 981.0  | 1013.2 | 1038.8 | 1063.9 | 1079.8 | 1096.4 | 1119.8 | 1119.2 | 1113.7 |
| 35°   | 950.4  | 953.6  | 932.2  | 973.1  | 998.8  | 1029.4 | 1049.3 | 1071.4 | 1092.2 | 1092.5 | 1088.3 |
| 37.5° | 898.3  | 902.2  | 882.7  | 927.6  | 956.9  | 993.0  | 1018.4 | 1040.5 | 1063.6 | 1064.9 | 1061.0 |
| 40°   | 846.6  | 850.9  | 833.9  | 877.2  | 914.3  | 954.6  | 983.9  | 1009.9 | 1035.3 | 1035.9 | 1033.3 |
| 42.5° | 794.9  | 799.5  | 786.8  | 829.1  | 871.0  | 914.3  | 948.8  | 978.3  | 1004.4 | 1006.0 | 1003.1 |
| 45°   | 744.5  | 748.4  | 739.3  | 785.5  | 825.8  | 873.0  | 912.6  | 946.1  | 972.5  | 974.8  | 973.8  |
| 47.5° | 694.4  | 698.0  | 689.9  | 732.1  | 778.6  | 828.7  | 874.6  | 911.7  | 939.6  | 942.2  | 941.6  |
| 50°   | 645.3  | 648.2  | 639.4  | 683.7  | 729.9  | 783.2  | 831.0  | 873.9  | 905.2  | 907.8  | 907.4  |
| 52.5° | 596.5  | 599.4  | 592.0  | 638.5  | 680.4  | 736.7  | 788.7  | 835.2  | 866.1  | 870.0  | 870.7  |
| 55°   | 549.3  | 550.6  | 544.8  | 589.4  | 630.0  | 688.9  | 748.7  | 793.9  | 824.8  | 828.1  | 830.0  |
| 57.5° | 502.2  | 502.5  | 497.6  | 540.2  | 579.3  | 639.4  | 702.2  | 749.7  | 779.0  | 782.2  | 785.2  |
| 60°   | 455.3  | 455.0  | 449.5  | 490.8  | 528.2  | 587.7  | 653.1  | 700.3  | 728.6  | 731.5  | 735.4  |
| 62.5° | 408.8  | 407.9  | 403.0  | 441.0  | 476.2  | 535.0  | 600.7  | 646.3  | 673.3  | 675.2  | 680.4  |
| 65°   | 362.7  | 361.7  | 357.1  | 392.3  | 424.1  | 480.4  | 544.8  | 588.0  | 612.4  | 615.0  | 614.1  |
| 67.5° | 317.1  | 315.2  | 311.6  | 343.1  | 372.1  | 424.1  | 485.9  | 527.2  | 547.4  | 549.7  | 555.9  |
| 70°   | 271.6  | 269.3  | 261.2  | 294.7  | 320.0  | 366.6  | 424.1  | 460.9  | 477.8  | 480.1  | 479.1  |
| 72.5° | 226.7  | 224.4  | 215.6  | 246.5  | 268.0  | 308.7  | 360.1  | 390.6  | 405.3  | 407.2  | 407.2  |
| 75°   | 183.1  | 181.8  | 176.3  | 199.7  | 217.6  | 250.8  | 294.4  | 319.7  | 331.1  | 333.4  | 332.7  |
| 77.5° | 141.2  | 140.2  | 134.7  | 154.8  | 168.8  | 193.5  | 228.6  | 248.5  | 256.9  | 259.5  | 265.1  |
| 80°   | 101.2  | 100.8  | 92.0   | 111.9  | 118.1  | 138.9  | 164.6  | 179.9  | 184.4  | 188.0  | 191.9  |
| 82.5° | 64.7   | 65.0   | 56.3   | 73.2   | 75.8   | 89.1   | 105.1  | 114.5  | 117.7  | 120.7  | 123.6  |
| 85°   | 31.5   | 32.9   | 28.0   | 38.7   | 39.0   | 45.9   | 52.7   | 56.3   | 57.6   | 59.8   | 62.4   |
| 87.5° | 8.1    | 9.4    | 5.2    | 11.1   | 9.8    | 12.7   | 14.6   | 15.6   | 15.3   | 16.9   | 17.9   |
| 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):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 |
| 2.5°  | 1364.7 | 1375.2 | 1369.9 | 1386.9 | 1393.4 | 1383.0 | 1401.2 | 1401.5 | 1388.5 | 1403.8 | 1412.2 |
| 5°    | 1343.6 | 1354.3 | 1351.1 | 1368.6 | 1376.8 | 1367.7 | 1389.8 | 1394.0 | 1381.3 | 1398.6 | 1412.2 |
| 7.5°  | 1322.1 | 1334.8 | 1330.6 | 1348.5 | 1358.2 | 1351.1 | 1374.8 | 1381.7 | 1371.9 | 1390.8 | 1409.0 |
| 10°   | 1303.6 | 1314.3 | 1309.8 | 1328.6 | 1337.1 | 1331.2 | 1354.7 | 1367.3 | 1358.2 | 1381.3 | 1403.1 |
| 12.5° | 1285.4 | 1294.2 | 1289.0 | 1304.6 | 1312.7 | 1305.2 | 1333.8 | 1345.6 | 1339.0 | 1363.1 | 1391.1 |
| 15°   | 1262.0 | 1271.7 | 1264.6 | 1278.6 | 1284.7 | 1278.2 | 1301.6 | 1321.8 | 1313.7 | 1340.0 | 1370.9 |
| 17.5° | 1244.1 | 1249.6 | 1239.8 | 1250.9 | 1254.5 | 1245.7 | 1269.4 | 1289.3 | 1283.4 | 1312.1 | 1347.8 |
| 20°   | 1224.2 | 1228.8 | 1215.1 | 1221.3 | 1221.0 | 1209.9 | 1231.7 | 1251.2 | 1247.3 | 1278.9 | 1319.5 |
| 22.5° | 1202.1 | 1204.4 | 1188.5 | 1189.8 | 1189.1 | 1170.9 | 1190.4 | 1210.3 | 1208.6 | 1240.5 | 1286.0 |
| 25°   | 1178.7 | 1179.0 | 1158.5 | 1157.9 | 1150.7 | 1129.3 | 1146.5 | 1168.9 | 1164.1 | 1198.5 | 1246.4 |
| 27.5° | 1155.6 | 1152.4 | 1127.6 | 1121.8 | 1110.4 | 1084.7 | 1100.0 | 1120.2 | 1117.2 | 1151.1 | 1204.1 |
| 30°   | 1130.9 | 1126.7 | 1096.4 | 1085.7 | 1069.1 | 1039.5 | 1052.2 | 1071.0 | 1072.7 | 1102.3 | 1157.9 |
| 32.5° | 1107.5 | 1096.7 | 1063.2 | 1047.6 | 1026.8 | 992.3  | 999.2  | 1018.4 | 1021.0 | 1050.9 | 1108.1 |
| 35°   | 1077.2 | 1070.1 | 1028.8 | 1002.1 | 981.6  | 943.9  | 951.0  | 964.4  | 968.3  | 997.5  | 1055.8 |
| 37.5° | 1048.6 | 1037.2 | 993.3  | 960.8  | 934.4  | 894.8  | 896.7  | 910.4  | 914.3  | 943.9  | 1001.4 |
| 40°   | 1019.0 | 1002.7 | 955.6  | 917.5  | 887.3  | 845.6  | 843.4  | 857.7  | 860.6  | 889.6  | 941.6  |
| 42.5° | 987.5  | 967.9  | 914.9  | 873.3  | 838.5  | 796.2  | 791.7  | 804.0  | 807.3  | 835.6  | 886.6  |
| 45°   | 955.6  | 932.2  | 873.3  | 827.8  | 789.7  | 746.4  | 741.9  | 751.3  | 756.2  | 782.9  | 832.0  |
| 47.5° | 921.8  | 894.4  | 830.4  | 779.6  | 740.3  | 697.0  | 691.5  | 700.9  | 704.8  | 731.2  | 777.7  |
| 50°   | 886.3  | 853.1  | 786.1  | 730.2  | 691.2  | 648.5  | 640.4  | 651.5  | 655.1  | 679.8  | 725.3  |
| 52.5° | 847.3  | 810.5  | 739.0  | 680.4  | 641.4  | 600.7  | 591.0  | 601.7  | 605.9  | 630.0  | 672.0  |
| 55°   | 806.0  | 766.3  | 691.5  | 634.6  | 592.3  | 552.6  | 544.5  | 548.7  | 557.8  | 580.6  | 619.6  |
| 57.5° | 759.5  | 720.1  | 641.4  | 583.5  | 542.8  | 504.8  | 498.0  | 501.9  | 510.3  | 532.4  | 567.6  |
| 60°   | 710.0  | 668.4  | 590.3  | 532.4  | 493.1  | 457.0  | 450.8  | 454.4  | 463.5  | 483.6  | 516.2  |
| 62.5° | 661.2  | 614.4  | 537.6  | 480.1  | 444.3  | 410.8  | 409.2  | 407.9  | 416.3  | 435.8  | 464.5  |
| 65°   | 602.0  | 557.2  | 482.7  | 428.0  | 395.5  | 365.3  | 358.7  | 361.7  | 369.8  | 387.7  | 417.6  |
| 67.5° | 538.6  | 498.0  | 426.4  | 376.0  | 347.0  | 320.0  | 314.5  | 315.8  | 324.3  | 339.9  | 365.9  |
| 70°   | 471.3  | 435.5  | 368.8  | 323.6  | 299.2  | 273.9  | 270.3  | 270.6  | 278.7  | 292.4  | 315.2  |
| 72.5° | 400.7  | 368.5  | 310.6  | 271.9  | 251.7  | 233.5  | 230.3  | 226.4  | 233.9  | 245.6  | 265.1  |
| 75°   | 328.8  | 300.5  | 252.7  | 221.2  | 205.2  | 189.9  | 187.0  | 183.1  | 190.6  | 200.7  | 216.0  |
| 77.5° | 256.3  | 233.5  | 196.5  | 172.1  | 159.7  | 148.3  | 145.7  | 141.5  | 149.0  | 156.4  | 168.5  |
| 80°   | 185.4  | 168.8  | 146.7  | 121.0  | 116.8  | 109.3  | 106.7  | 102.1  | 109.3  | 114.2  | 123.3  |
| 82.5° | 119.7  | 108.6  | 95.9   | 78.1   | 77.4   | 71.9   | 70.6   | 65.4   | 71.9   | 74.8   | 81.6   |
| 85°   | 60.5   | 55.3   | 52.0   | 39.7   | 41.0   | 37.4   | 37.1   | 31.5   | 36.8   | 38.1   | 42.0   |
| 87.5° | 17.2   | 18.2   | 16.3   | 9.8    | 12.4   | 11.7   | 11.7   | 8.5    | 11.7   | 11.7   | 13.3   |
| 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: P837880

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

**CANDELA DISTRIBUTION (continued):**

|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 | 1394.3 |
| 2.5°  | 1395.6 | 1401.2 | 1402.5 | 1402.1 | 1405.7 | 1425.2 | 1418.7 | 1425.2 |
| 5°    | 1398.9 | 1411.3 | 1414.5 | 1419.1 | 1424.9 | 1447.0 | 1439.9 | 1447.7 |
| 7.5°  | 1400.8 | 1419.4 | 1426.5 | 1435.3 | 1444.8 | 1469.5 | 1463.6 | 1471.4 |
| 10°   | 1400.8 | 1424.9 | 1435.3 | 1450.0 | 1462.6 | 1491.3 | 1485.7 | 1494.8 |
| 12.5° | 1395.0 | 1425.9 | 1440.5 | 1461.0 | 1477.3 | 1508.2 | 1505.9 | 1512.4 |
| 15°   | 1383.0 | 1421.0 | 1441.2 | 1467.5 | 1487.7 | 1522.2 | 1521.2 | 1529.0 |
| 17.5° | 1366.7 | 1412.6 | 1436.9 | 1470.1 | 1495.5 | 1534.2 | 1536.5 | 1540.7 |
| 20°   | 1346.2 | 1396.6 | 1428.5 | 1469.1 | 1501.0 | 1543.6 | 1546.6 | 1552.4 |
| 22.5° | 1319.2 | 1377.4 | 1415.8 | 1464.9 | 1501.7 | 1547.5 | 1552.7 | 1558.3 |
| 25°   | 1287.3 | 1354.3 | 1399.2 | 1456.8 | 1498.4 | 1547.2 | 1554.4 | 1559.2 |
| 27.5° | 1250.9 | 1324.4 | 1378.1 | 1443.8 | 1489.3 | 1542.0 | 1550.8 | 1556.6 |
| 30°   | 1208.6 | 1292.5 | 1354.0 | 1426.9 | 1477.0 | 1532.2 | 1541.7 | 1547.5 |
| 32.5° | 1165.0 | 1257.4 | 1325.4 | 1405.1 | 1459.1 | 1516.6 | 1524.8 | 1529.3 |
| 35°   | 1117.6 | 1214.8 | 1290.9 | 1377.1 | 1436.0 | 1491.6 | 1497.8 | 1502.6 |
| 37.5° | 1065.8 | 1168.6 | 1251.6 | 1345.6 | 1403.4 | 1456.8 | 1462.3 | 1467.8 |
| 40°   | 1012.5 | 1120.2 | 1207.3 | 1306.8 | 1364.7 | 1414.2 | 1420.0 | 1423.9 |
| 42.5° | 958.8  | 1066.5 | 1160.2 | 1261.3 | 1318.9 | 1366.4 | 1369.9 | 1373.9 |
| 45°   | 904.5  | 1010.9 | 1107.1 | 1210.9 | 1267.8 | 1312.4 | 1313.7 | 1316.9 |
| 47.5° | 849.2  | 953.3  | 1048.9 | 1153.3 | 1209.6 | 1250.3 | 1251.6 | 1254.2 |
| 50°   | 793.6  | 895.7  | 986.8  | 1091.2 | 1146.2 | 1189.1 | 1183.3 | 1185.9 |
| 52.5° | 739.0  | 835.2  | 928.3  | 1024.2 | 1078.5 | 1116.6 | 1118.2 | 1113.0 |
| 55°   | 685.3  | 776.0  | 861.6  | 954.0  | 1005.7 | 1035.3 | 1034.3 | 1036.2 |
| 57.5° | 631.0  | 716.2  | 794.6  | 879.1  | 929.6  | 957.5  | 963.4  | 956.6  |
| 60°   | 575.7  | 655.7  | 726.0  | 802.4  | 851.2  | 874.6  | 881.4  | 874.9  |
| 62.5° | 520.7  | 594.2  | 658.0  | 724.7  | 769.9  | 798.8  | 798.2  | 791.0  |
| 65°   | 465.8  | 532.4  | 589.4  | 645.9  | 685.3  | 714.2  | 712.9  | 706.4  |
| 67.5° | 415.0  | 470.0  | 521.0  | 566.9  | 601.1  | 620.9  | 627.7  | 619.9  |
| 70°   | 359.1  | 406.6  | 451.4  | 488.2  | 516.5  | 534.4  | 540.9  | 534.1  |
| 72.5° | 303.1  | 343.5  | 375.0  | 410.5  | 432.3  | 447.2  | 454.0  | 447.5  |
| 75°   | 247.8  | 281.0  | 306.7  | 334.4  | 349.6  | 362.3  | 370.1  | 363.6  |
| 77.5° | 194.2  | 219.9  | 240.4  | 260.5  | 278.1  | 281.0  | 287.8  | 283.6  |
| 80°   | 143.1  | 161.6  | 176.6  | 189.9  | 202.6  | 203.9  | 209.5  | 206.9  |
| 82.5° | 95.3   | 107.7  | 111.6  | 125.5  | 133.7  | 132.4  | 137.9  | 136.0  |
| 85°   | 50.4   | 57.9   | 64.7   | 69.0   | 73.5   | 69.3   | 74.2   | 72.2   |
| 87.5° | 16.9   | 17.9   | 15.6   | 22.1   | 24.4   | 20.8   | 23.7   | 22.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)