

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1338850

Luminaire Tested: P3A05R409030D2WDE010 E3CA451MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1338850  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A05R409030D2WDE010 E3CA451MW  
Description: 3in Adjustable Dim to Warm LED luminaire with, R40 optic, 3000K CCT AND, 90CRI ,  
E3CA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

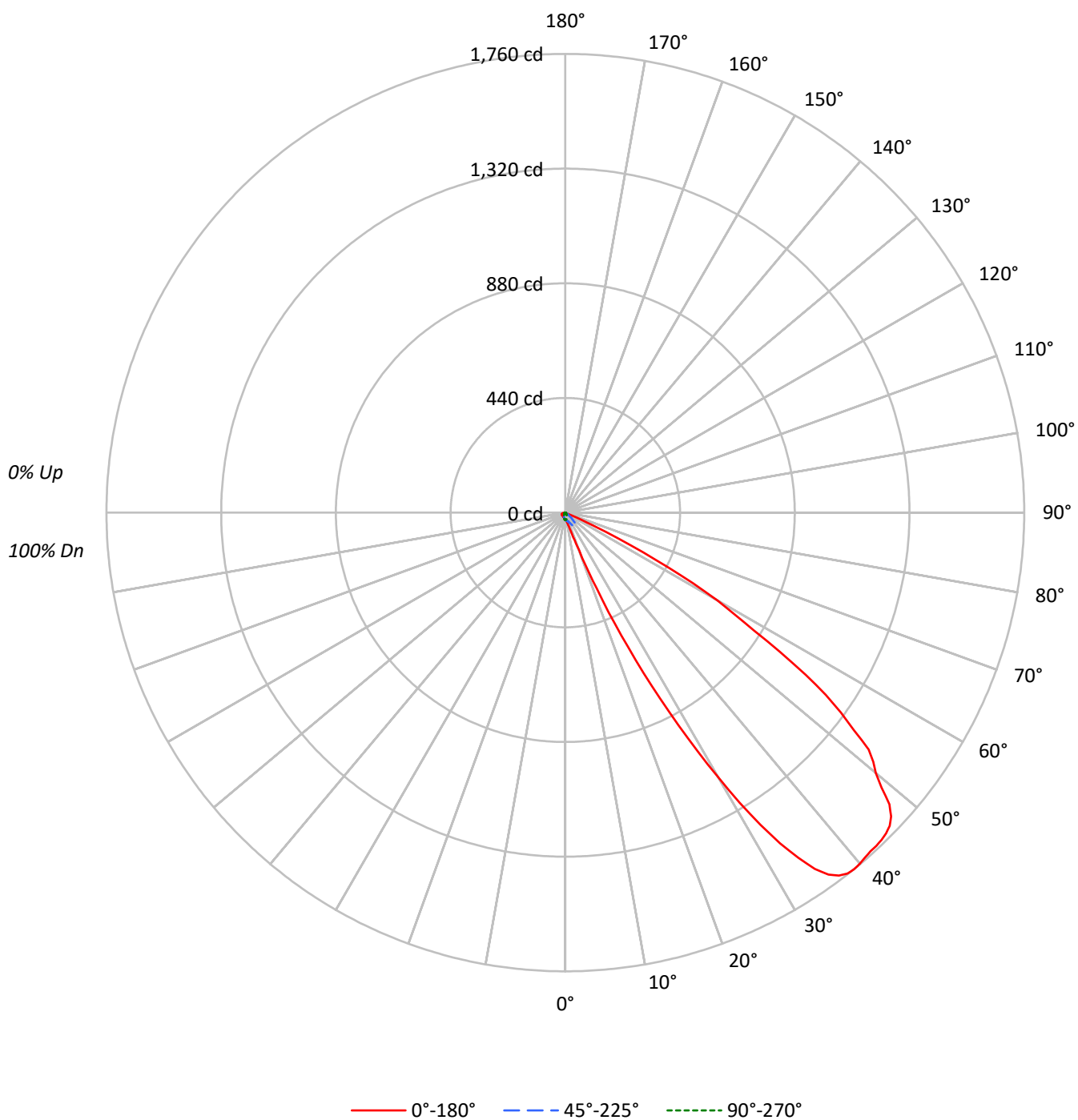
Lumens per Lamp: N/A  
Luminaire Lumens: 544.0 lumens  
Efficiency: N/A  
Efficacy: 49.0 lumens/watt  
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
Input Voltage (V): NR  
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: 24 FT

TEST NUMBER: P1338850

CATALOG NUMBER: P3A05R409030D2WDE010 E3CA451MW

### 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  |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 110 | 106 | 102 | 99  |  | 107 | 104 | 100 | 97  |  | 99  | 97  | 94  |  | 96  | 93  | 91  |  | 92  | 90  | 88  |
| 2   | 100 | 93  | 86  | 81  |  | 98  | 91  | 85  | 80  |  | 87  | 82  | 78  |  | 84  | 80  | 76  |  | 81  | 78  | 75  |
| 3   | 91  | 81  | 73  | 66  |  | 89  | 79  | 72  | 66  |  | 76  | 70  | 65  |  | 73  | 68  | 64  |  | 71  | 66  | 62  |
| 4   | 82  | 70  | 62  | 55  |  | 80  | 69  | 61  | 54  |  | 67  | 59  | 54  |  | 64  | 58  | 53  |  | 62  | 57  | 52  |
| 5   | 75  | 62  | 52  | 46  |  | 73  | 60  | 52  | 45  |  | 58  | 51  | 45  |  | 56  | 50  | 44  |  | 54  | 49  | 44  |
| 6   | 68  | 54  | 45  | 38  |  | 66  | 53  | 44  | 38  |  | 51  | 43  | 38  |  | 50  | 43  | 37  |  | 48  | 42  | 37  |
| 7   | 62  | 48  | 39  | 32  |  | 60  | 47  | 38  | 32  |  | 45  | 37  | 32  |  | 44  | 37  | 31  |  | 42  | 36  | 31  |
| 8   | 57  | 42  | 33  | 27  |  | 55  | 42  | 33  | 27  |  | 40  | 32  | 27  |  | 39  | 32  | 27  |  | 38  | 31  | 26  |
| 9   | 52  | 38  | 29  | 23  |  | 51  | 37  | 29  | 23  |  | 36  | 28  | 23  |  | 35  | 28  | 23  |  | 34  | 27  | 23  |
| 10  | 48  | 34  | 25  | 20  |  | 47  | 33  | 25  | 20  |  | 32  | 25  | 20  |  | 31  | 24  | 20  |  | 30  | 24  | 19  |

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

|     | 0°     | 45°   | 90°  | 135° | 180°  |
|-----|--------|-------|------|------|-------|
| 0°  | 6140   | 6140  | 6140 | 6140 | 6140  |
| 5°  | 6824   | 6604  | 6053 | 5503 | 5393  |
| 10° | 8239   | 7014  | 5567 | 5010 | 4899  |
| 15° | 13507  | 7605  | 4767 | 4427 | 4540  |
| 20° | 35680  | 8984  | 3967 | 3967 | 4317  |
| 25° | 137548 | 11130 | 3145 | 3629 | 4234  |
| 30° | 296755 | 14812 | 2532 | 3545 | 4178  |
| 35° | 446671 | 17507 | 2142 | 3480 | 4283  |
| 40° | 503257 | 17576 | 1861 | 3578 | 4580  |
| 45° | 539622 | 13645 | 1706 | 3721 | 4962  |
| 50° | 530371 | 8529  | 1535 | 3923 | 5458  |
| 55° | 466602 | 4205  | 1529 | 4396 | 6117  |
| 60° | 295327 | 877   | 1754 | 4824 | 6798  |
| 65° | 60396  | 259   | 1816 | 5189 | 7524  |
| 70° | 1282   | 321   | 1923 | 5770 | 8655  |
| 75° | 1271   | 847   | 2118 | 6354 | 9743  |
| 80° | 1263   | 631   | 2526 | 6945 | 11365 |
| 85° | 1258   | 1258  | 5032 | 7548 | 12580 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 549361 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.6    | 0.5       |
| 10°-20°   | 8.6    | 1.6       |
| 20°-30°   | 42.3   | 7.8       |
| 30°-40°   | 137.4  | 25.3      |
| 40°-50°   | 189.5  | 34.8      |
| 50°-60°   | 132.0  | 24.3      |
| 60°-70°   | 25.0   | 4.6       |
| 70°-80°   | 4.5    | 0.8       |
| 80°-90°   | 2.1    | 0.4       |
| 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°    | 53.5   | 9.8       |
| 0°-40°    | 190.9  | 35.1      |
| 0°-60°    | 512.4  | 94.2      |
| 0°-90°    | 544.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 544.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 28   | 28  | 28  | 28   | 28   |      |
| 5°  | 31   | 30  | 28  | 25   | 24   | 3    |
| 15° | 60   | 34  | 21  | 20   | 20   | 22   |
| 25° | 568  | 46  | 13  | 15   | 18   | 293  |
| 35° | 1669 | 65  | 8   | 13   | 16   | 1008 |
| 45° | 1740 | 44  | 6   | 12   | 16   | 1323 |
| 55° | 1220 | 11  | 4   | 12   | 16   | 1043 |
| 65° | 116  | 0   | 4   | 10   | 14   | 206  |
| 75° | 2    | 1   | 2   | 8    | 12   | 1    |
| 85° | 0    | 0   | 2   | 3    | 5    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°   | 30°   | 35°   | 45°  | 67.5° | 90°  |
|-------|--------|--------|--------|--------|--------|-------|-------|-------|------|-------|------|
| 0°    | 28.0   | 28.0   | 28.0   | 28.0   | 28.0   | 28.0  | 28.0  | 28.0  | 28.0 | 28.0  | 28.0 |
| 2.5°  | 29.0   | 29.0   | 29.0   | 29.0   | 29.0   | 29.0  | 29.0  | 29.0  | 29.0 | 28.5  | 28.0 |
| 5°    | 31.0   | 31.0   | 31.0   | 31.0   | 30.5   | 30.5  | 30.5  | 30.0  | 30.0 | 29.0  | 27.5 |
| 7.5°  | 33.0   | 33.0   | 33.0   | 33.0   | 32.5   | 32.0  | 31.5  | 31.5  | 31.0 | 28.5  | 26.5 |
| 10°   | 37.0   | 37.0   | 36.5   | 36.0   | 35.5   | 34.5  | 34.0  | 33.0  | 31.5 | 28.0  | 25.0 |
| 12.5° | 45.0   | 44.0   | 43.5   | 42.5   | 41.0   | 39.0  | 37.0  | 35.5  | 32.0 | 27.0  | 23.5 |
| 15°   | 59.5   | 58.5   | 56.5   | 53.5   | 50.5   | 46.5  | 43.0  | 39.5  | 33.5 | 25.5  | 21.0 |
| 17.5° | 84.9   | 81.9   | 78.9   | 73.9   | 66.4   | 59.5  | 52.0  | 45.5  | 35.5 | 24.0  | 19.0 |
| 20°   | 152.9  | 150.9  | 132.9  | 118.9  | 96.4   | 80.4  | 65.4  | 54.5  | 38.5 | 22.5  | 17.0 |
| 22.5° | 315.2  | 294.3  | 264.8  | 216.8  | 168.9  | 124.4 | 90.4  | 68.4  | 41.5 | 20.5  | 15.0 |
| 25°   | 568.5  | 535.6  | 472.1  | 379.7  | 280.3  | 198.3 | 130.9 | 89.4  | 46.0 | 18.5  | 13.0 |
| 27.5° | 860.8  | 827.3  | 728.9  | 601.5  | 439.1  | 299.3 | 186.8 | 118.4 | 52.0 | 16.5  | 11.5 |
| 30°   | 1172.0 | 1143.6 | 1018.7 | 842.3  | 619.0  | 419.2 | 250.3 | 147.9 | 58.5 | 14.5  | 10.0 |
| 31°   | 1297.4 | 1261.0 | 1126.1 | 938.2  | 703.4  | 468.6 | 275.8 | 160.4 | 60.9 | 14.0  | 9.5  |
| 32°   | 1412.8 | 1371.4 | 1231.5 | 1030.2 | 771.9  | 522.1 | 303.7 | 171.4 | 62.9 | 13.0  | 9.0  |
| 33°   | 1512.3 | 1463.8 | 1328.9 | 1117.1 | 847.3  | 572.0 | 332.7 | 181.9 | 64.4 | 12.0  | 8.5  |
| 34°   | 1596.7 | 1554.7 | 1409.8 | 1204.5 | 914.2  | 620.0 | 361.2 | 192.3 | 65.4 | 11.5  | 8.0  |
| 35°   | 1668.6 | 1630.7 | 1487.3 | 1271.0 | 979.7  | 666.5 | 387.2 | 202.3 | 65.4 | 10.5  | 8.0  |
| 36°   | 1717.1 | 1684.1 | 1554.2 | 1338.9 | 1034.6 | 705.9 | 409.2 | 211.3 | 65.4 | 9.5   | 7.5  |
| 37°   | 1743.6 | 1711.6 | 1598.2 | 1394.9 | 1088.6 | 744.9 | 429.1 | 218.3 | 64.9 | 9.0   | 7.0  |
| 38°   | 1757.1 | 1729.1 | 1630.7 | 1440.3 | 1126.1 | 772.9 | 446.6 | 223.8 | 64.4 | 8.0   | 7.0  |
| 39°   | 1760.5 | 1737.1 | 1651.1 | 1473.3 | 1162.5 | 800.8 | 459.1 | 226.8 | 62.9 | 7.5   | 6.5  |
| 40°   | 1758.1 | 1737.6 | 1662.1 | 1502.8 | 1190.5 | 822.8 | 468.1 | 227.8 | 61.4 | 6.5   | 6.5  |
| 41°   | 1753.1 | 1737.1 | 1670.1 | 1523.2 | 1213.0 | 836.8 | 471.6 | 225.8 | 59.5 | 5.5   | 6.0  |
| 42°   | 1748.6 | 1731.1 | 1673.6 | 1537.2 | 1228.5 | 843.8 | 471.1 | 221.8 | 56.5 | 5.0   | 6.0  |
| 43°   | 1748.6 | 1728.6 | 1674.1 | 1546.2 | 1236.0 | 844.3 | 465.1 | 214.3 | 52.5 | 4.5   | 5.5  |
| 44°   | 1745.6 | 1727.1 | 1676.6 | 1552.2 | 1238.0 | 839.8 | 455.6 | 206.3 | 48.0 | 4.0   | 5.5  |
| 45°   | 1740.1 | 1720.6 | 1676.1 | 1552.7 | 1234.5 | 828.8 | 440.1 | 195.8 | 44.0 | 3.0   | 5.5  |
| 46°   | 1729.6 | 1712.1 | 1671.6 | 1549.2 | 1224.0 | 812.8 | 421.7 | 185.3 | 39.5 | 2.5   | 5.0  |
| 47°   | 1708.6 | 1695.1 | 1659.6 | 1537.2 | 1208.0 | 789.3 | 399.7 | 173.4 | 36.0 | 2.0   | 5.0  |
| 48°   | 1672.6 | 1663.1 | 1639.1 | 1510.8 | 1177.5 | 760.4 | 376.2 | 160.4 | 32.5 | 2.0   | 5.0  |
| 49°   | 1606.7 | 1599.2 | 1585.2 | 1468.3 | 1138.6 | 724.9 | 350.7 | 145.9 | 29.0 | 1.5   | 5.0  |
| 50°   | 1554.7 | 1546.7 | 1518.2 | 1396.8 | 1082.6 | 679.9 | 322.7 | 131.4 | 25.0 | 1.0   | 4.5  |
| 51°   | 1520.2 | 1507.3 | 1462.3 | 1313.9 | 1001.2 | 620.0 | 292.3 | 116.9 | 21.0 | 1.0   | 4.5  |
| 52°   | 1476.8 | 1457.3 | 1401.3 | 1239.5 | 926.7  | 560.0 | 259.3 | 102.4 | 18.5 | 1.0   | 4.5  |
| 53°   | 1385.9 | 1378.9 | 1323.4 | 1159.5 | 852.3  | 502.6 | 225.3 | 90.4  | 16.0 | 1.0   | 4.5  |
| 54°   | 1306.4 | 1295.9 | 1220.5 | 1048.6 | 771.4  | 438.6 | 190.3 | 79.9  | 13.5 | 1.0   | 4.5  |
| 55°   | 1220.5 | 1200.0 | 1133.1 | 955.2  | 676.4  | 379.7 | 156.9 | 68.9  | 11.0 | 1.0   | 4.0  |
| 56°   | 1112.1 | 1094.1 | 1022.2 | 855.3  | 589.0  | 319.7 | 131.4 | 56.5  | 8.5  | 1.0   | 4.0  |
| 57°   | 980.2  | 963.7  | 908.3  | 732.4  | 498.1  | 261.3 | 106.9 | 45.5  | 6.5  | 1.0   | 4.0  |
| 58°   | 852.8  | 834.3  | 770.9  | 614.5  | 402.2  | 207.3 | 89.4  | 37.0  | 5.0  | 1.0   | 4.0  |
| 59°   | 754.9  | 729.9  | 648.0  | 516.1  | 314.7  | 157.4 | 70.9  | 29.5  | 3.5  | 1.0   | 4.0  |
| 60°   | 673.4  | 653.0  | 568.0  | 429.6  | 246.8  | 115.9 | 52.5  | 22.5  | 2.0  | 1.0   | 4.0  |
| 62.5° | 390.2  | 384.7  | 308.2  | 221.3  | 116.4  | 54.0  | 26.0  | 10.5  | 1.0  | 1.5   | 4.0  |
| 65°   | 116.4  | 101.4  | 78.9   | 47.0   | 30.0   | 18.0  | 9.5   | 3.5   | 0.5  | 1.5   | 3.5  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 67.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 2.0 | 1.0 | 0.5 | 1.5   | 3.5 |
| 70°   | 2.0 | 1.5 | 1.5 | 1.5 | 1.5 | 1.0 | 1.0 | 0.5 | 0.5 | 1.5   | 3.0 |
| 72.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.0 | 1.0 | 1.0 | 0.5 | 1.0 | 1.5   | 2.5 |
| 75°   | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 0.5 | 0.5 | 0.5 | 1.0 | 1.5   | 2.5 |
| 77.5° | 1.0 | 1.0 | 1.0 | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 | 1.0 | 1.5   | 2.5 |
| 80°   | 1.0 | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.5   | 2.0 |
| 82.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.5   | 2.0 |
| 85°   | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.5   | 2.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 1.5   | 1.5 |
| 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):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0°    | 28.0   | 28.0 | 28.0   | 28.0 |
| 2.5°  | 27.0   | 26.5 | 26.0   | 26.0 |
| 5°    | 26.0   | 25.0 | 25.0   | 24.5 |
| 7.5°  | 24.5   | 23.5 | 23.5   | 23.5 |
| 10°   | 23.0   | 22.5 | 22.5   | 22.0 |
| 12.5° | 21.0   | 21.0 | 21.0   | 21.0 |
| 15°   | 19.5   | 19.5 | 20.0   | 20.0 |
| 17.5° | 17.5   | 18.0 | 19.0   | 19.5 |
| 20°   | 16.0   | 17.0 | 18.0   | 18.5 |
| 22.5° | 15.0   | 16.0 | 17.5   | 18.0 |
| 25°   | 13.5   | 15.0 | 17.0   | 17.5 |
| 27.5° | 12.5   | 14.5 | 16.0   | 17.0 |
| 30°   | 11.5   | 14.0 | 15.5   | 16.5 |
| 31°   | 11.5   | 13.5 | 15.5   | 16.5 |
| 32°   | 11.0   | 13.0 | 15.5   | 16.0 |
| 33°   | 11.0   | 13.0 | 15.5   | 16.0 |
| 34°   | 10.5   | 13.0 | 15.0   | 16.0 |
| 35°   | 10.5   | 13.0 | 15.0   | 16.0 |
| 36°   | 10.0   | 12.5 | 15.0   | 16.0 |
| 37°   | 10.0   | 12.5 | 15.0   | 16.0 |
| 38°   | 9.5    | 12.5 | 15.0   | 16.0 |
| 39°   | 9.5    | 12.5 | 15.0   | 16.0 |
| 40°   | 9.5    | 12.5 | 15.0   | 16.0 |
| 41°   | 9.0    | 12.5 | 15.0   | 16.0 |
| 42°   | 9.0    | 12.5 | 15.0   | 16.0 |
| 43°   | 9.0    | 12.0 | 15.0   | 16.0 |
| 44°   | 9.0    | 12.0 | 15.0   | 16.0 |
| 45°   | 8.5    | 12.0 | 15.0   | 16.0 |
| 46°   | 8.5    | 12.0 | 15.0   | 16.0 |
| 47°   | 8.5    | 12.0 | 15.0   | 16.0 |
| 48°   | 8.5    | 12.0 | 15.0   | 16.0 |
| 49°   | 8.5    | 12.0 | 15.0   | 16.0 |
| 50°   | 8.0    | 11.5 | 15.0   | 16.0 |
| 51°   | 8.0    | 11.5 | 15.0   | 16.0 |
| 52°   | 8.0    | 11.5 | 15.0   | 16.0 |
| 53°   | 8.0    | 11.5 | 15.0   | 16.0 |
| 54°   | 7.5    | 11.5 | 15.0   | 16.0 |
| 55°   | 7.5    | 11.5 | 15.0   | 16.0 |
| 56°   | 7.5    | 11.5 | 15.0   | 15.5 |
| 57°   | 7.5    | 11.5 | 14.5   | 15.5 |
| 58°   | 7.5    | 11.0 | 14.5   | 15.5 |
| 59°   | 7.5    | 11.0 | 14.5   | 15.5 |
| 60°   | 7.5    | 11.0 | 14.5   | 15.5 |
| 62.5° | 7.0    | 11.0 | 14.0   | 15.0 |
| 65°   | 6.5    | 10.0 | 14.0   | 14.5 |





TEST NUMBER: P1338850

CATALOG NUMBER: P3A05R409030D2WDE010 E3CA451MW

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 67.5° | 6.5    | 9.5  | 13.0   | 14.0 |
| 70°   | 6.0    | 9.0  | 12.5   | 13.5 |
| 72.5° | 5.0    | 8.5  | 11.5   | 12.5 |
| 75°   | 4.5    | 7.5  | 10.5   | 11.5 |
| 77.5° | 4.0    | 6.5  | 9.5    | 10.0 |
| 80°   | 3.5    | 5.5  | 8.0    | 9.0  |
| 82.5° | 2.5    | 4.0  | 6.5    | 7.0  |
| 85°   | 2.0    | 3.0  | 4.5    | 5.0  |
| 87.5° | 1.5    | 1.5  | 2.5    | 2.5  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)