

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: P1336834

Luminaire Tested: P3A05R209030DE010 E3A451MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1336834  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A05R209030DE010 E3A451MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3A451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

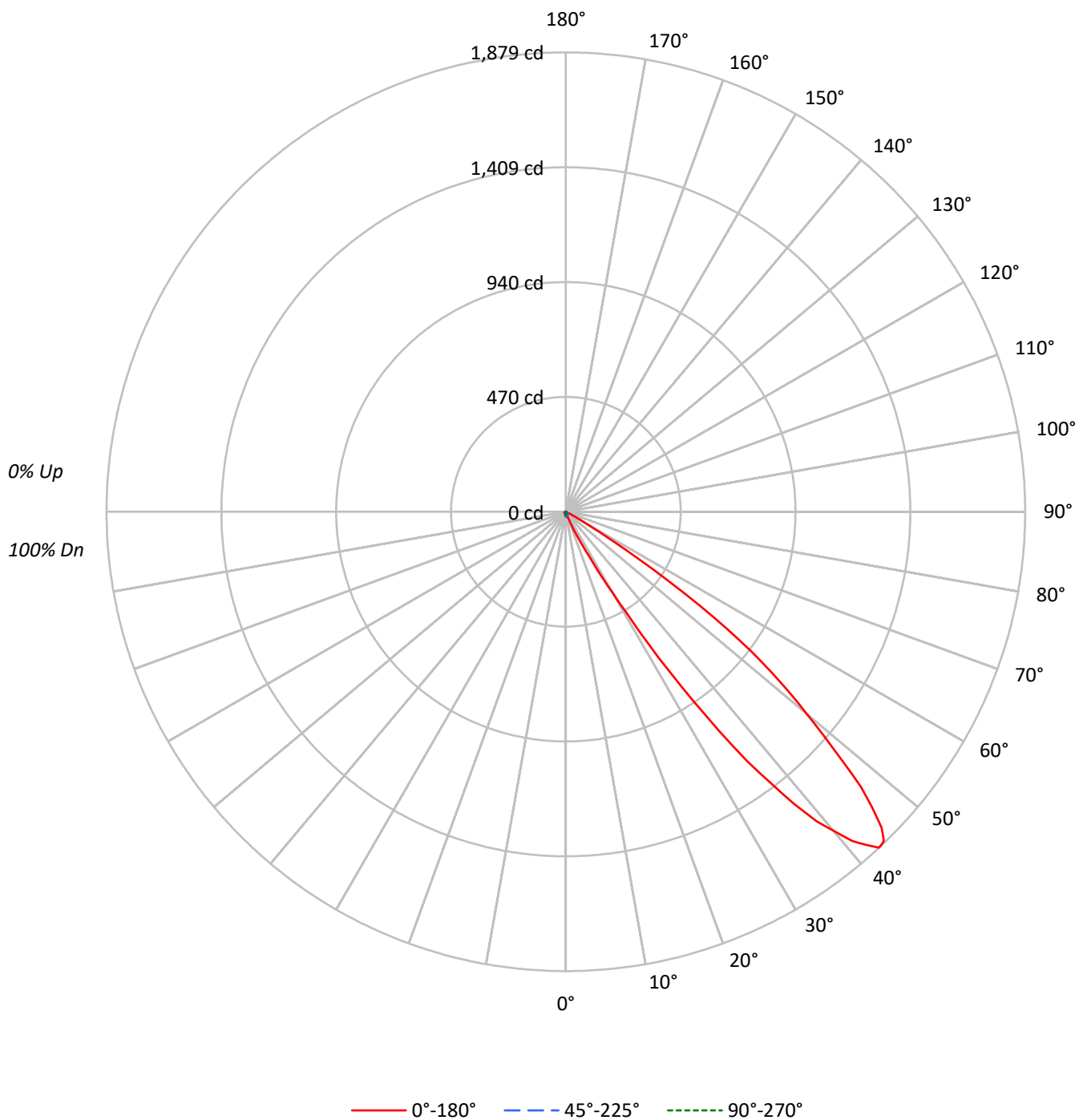
Lumens per Lamp: N/A  
Luminaire Lumens: 261.0 lumens  
Efficiency: N/A  
Efficacy: 36.2 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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: P1336834

CATALOG NUMBER: P3A05R209030DE010 E3A451MW

### 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  | 108 | 104 | 101 | 97  | 100 | 97  | 94  | 96  | 94  | 92  | 92  | 91  | 89  |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 78  | 75  |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 63  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  |
| 6   | 68  | 55  | 45  | 39  | 66  | 54  | 45  | 38  | 52  | 44  | 38  | 50  | 43  | 38  | 48  | 42  | 37  |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 38  | 32  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  |
| 8   | 57  | 42  | 33  | 27  | 55  | 42  | 33  | 27  | 40  | 33  | 27  | 39  | 32  | 27  | 38  | 31  | 27  |
| 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  | 19  | 31  | 24  | 19  | 30  | 24  | 19  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 3991   | 3991 | 3991 | 3991 | 3991 |
| 5°  | 4644   | 4314 | 3720 | 3236 | 3126 |
| 10° | 4587   | 3941 | 2939 | 2516 | 2449 |
| 15° | 4018   | 2997 | 2179 | 1998 | 2111 |
| 20° | 5951   | 2520 | 1610 | 1727 | 1890 |
| 25° | 25647  | 2613 | 1258 | 1548 | 1839 |
| 30° | 96952  | 3165 | 1063 | 1494 | 1798 |
| 35° | 293899 | 3801 | 990  | 1499 | 1901 |
| 40° | 487342 | 3779 | 830  | 1603 | 2032 |
| 45° | 566446 | 2574 | 775  | 1675 | 2202 |
| 50° | 439696 | 1433 | 751  | 1774 | 2524 |
| 55° | 254500 | 956  | 765  | 1988 | 2714 |
| 60° | 43023  | 219  | 658  | 2061 | 3026 |
| 65° | 3321   | 0    | 778  | 2283 | 3424 |
| 70° | 449    | 0    | 962  | 2500 | 3911 |
| 75° | 424    | 169  | 1017 | 2881 | 4575 |
| 80° | 253    | 253  | 1515 | 3157 | 5304 |
| 85° | 503    | 503  | 2516 | 3019 | 5535 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 566446 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.6    | 0.6       |
| 10°-20°   | 3.3    | 1.3       |
| 20°-30°   | 10.4   | 4.0       |
| 30°-40°   | 66.6   | 25.5      |
| 40°-50°   | 121.8  | 46.7      |
| 50°-60°   | 50.1   | 19.2      |
| 60°-70°   | 4.2    | 1.6       |
| 70°-80°   | 2.1    | 0.8       |
| 80°-90°   | 1.0    | 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°    | 15.2   | 5.8       |
| 0°-40°    | 81.8   | 31.3      |
| 0°-60°    | 253.7  | 97.2      |
| 0°-90°    | 261.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 261.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 18   | 18  | 18  | 18   | 18   |      |
| 5°  | 21   | 20  | 17  | 15   | 14   | 2    |
| 15° | 18   | 13  | 10  | 9    | 9    | 6    |
| 25° | 106  | 11  | 5   | 6    | 8    | 70   |
| 35° | 1098 | 14  | 4   | 6    | 7    | 695  |
| 45° | 1827 | 8   | 2   | 5    | 7    | 1312 |
| 55° | 666  | 2   | 2   | 5    | 7    | 582  |
| 65° | 6    | 0   | 2   | 4    | 7    | 21   |
| 75° | 0    | 0   | 1   | 3    | 5    | 1    |
| 85° | 0    | 0   | 1   | 1    | 2    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°   | 17.5° | 20°   | 22.5° | 45°  |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|------|
| 0°    | 18.2   | 18.2   | 18.2   | 18.2   | 18.2   | 18.2   | 18.2  | 18.2  | 18.2  | 18.2  | 18.2 |
| 2.5°  | 19.9   | 19.9   | 19.9   | 19.6   | 19.6   | 19.9   | 19.6  | 19.6  | 19.6  | 19.6  | 19.4 |
| 5°    | 21.1   | 21.1   | 21.1   | 21.1   | 21.1   | 21.1   | 21.1  | 20.8  | 20.8  | 20.6  | 19.6 |
| 7.5°  | 21.6   | 21.6   | 21.6   | 21.6   | 21.3   | 21.3   | 21.3  | 21.3  | 21.1  | 20.8  | 19.1 |
| 10°   | 20.6   | 20.6   | 20.6   | 20.4   | 20.4   | 20.4   | 20.1  | 20.1  | 19.9  | 19.6  | 17.7 |
| 12.5° | 18.6   | 18.6   | 18.6   | 18.6   | 18.4   | 18.4   | 18.2  | 18.2  | 17.9  | 17.7  | 15.5 |
| 15°   | 17.7   | 17.7   | 17.7   | 17.4   | 17.4   | 17.2   | 16.9  | 16.7  | 16.4  | 15.9  | 13.2 |
| 17.5° | 19.1   | 19.1   | 18.9   | 18.9   | 18.4   | 17.9   | 17.7  | 16.9  | 16.4  | 15.7  | 11.8 |
| 20°   | 25.5   | 25.8   | 24.8   | 24.0   | 23.5   | 22.1   | 21.3  | 20.1  | 19.1  | 17.9  | 10.8 |
| 22.5° | 51.5   | 50.5   | 48.8   | 46.1   | 42.9   | 40.2   | 35.3  | 31.4  | 28.7  | 25.0  | 10.5 |
| 25°   | 106.0  | 105.0  | 100.3  | 96.4   | 86.6   | 79.0   | 68.4  | 59.8  | 51.0  | 42.4  | 10.8 |
| 27.5° | 201.4  | 194.8  | 193.5  | 175.6  | 161.9  | 142.3  | 121.9 | 104.7 | 89.0  | 71.6  | 11.5 |
| 30°   | 382.9  | 375.3  | 348.5  | 321.6  | 284.5  | 242.6  | 202.6 | 165.3 | 134.2 | 106.0 | 12.5 |
| 31°   | 485.9  | 493.3  | 461.9  | 407.7  | 353.0  | 299.2  | 244.5 | 197.2 | 157.0 | 121.9 | 13.0 |
| 32°   | 638.7  | 606.6  | 573.5  | 517.8  | 438.3  | 369.6  | 301.0 | 232.8 | 179.8 | 139.1 | 13.5 |
| 33°   | 783.2  | 764.3  | 713.8  | 644.3  | 548.9  | 452.5  | 363.5 | 274.7 | 207.8 | 159.9 | 13.7 |
| 34°   | 937.2  | 916.4  | 875.4  | 775.8  | 671.1  | 544.8  | 426.0 | 323.0 | 241.1 | 180.3 | 14.0 |
| 35°   | 1097.9 | 1089.0 | 1010.1 | 923.7  | 794.9  | 642.6  | 501.3 | 376.0 | 273.7 | 198.9 | 14.2 |
| 36°   | 1259.5 | 1231.1 | 1169.2 | 1043.2 | 908.8  | 733.1  | 580.3 | 425.3 | 306.8 | 221.0 | 14.2 |
| 37°   | 1381.2 | 1374.8 | 1292.9 | 1170.0 | 1012.0 | 829.8  | 648.5 | 480.0 | 340.2 | 239.9 | 14.2 |
| 38°   | 1515.3 | 1490.1 | 1406.9 | 1281.8 | 1109.2 | 918.3  | 719.9 | 527.6 | 371.8 | 257.1 | 14.0 |
| 39°   | 1628.4 | 1590.9 | 1507.0 | 1383.4 | 1194.0 | 985.5  | 776.6 | 573.7 | 399.8 | 271.3 | 13.7 |
| 40°   | 1702.5 | 1676.5 | 1588.9 | 1449.8 | 1271.0 | 1049.1 | 833.9 | 611.7 | 420.7 | 282.1 | 13.2 |
| 41°   | 1784.2 | 1741.0 | 1654.4 | 1514.6 | 1327.0 | 1105.0 | 870.0 | 636.7 | 436.8 | 289.2 | 12.8 |
| 42°   | 1833.0 | 1797.6 | 1694.9 | 1558.0 | 1366.9 | 1136.9 | 899.4 | 655.9 | 446.7 | 292.9 | 11.8 |
| 43°   | 1878.6 | 1830.5 | 1730.4 | 1583.3 | 1393.4 | 1159.4 | 912.9 | 664.7 | 448.9 | 292.9 | 10.5 |
| 44°   | 1872.5 | 1826.8 | 1723.1 | 1586.7 | 1399.3 | 1166.1 | 918.6 | 665.0 | 445.4 | 289.2 | 9.3  |
| 45°   | 1826.6 | 1781.2 | 1687.8 | 1556.8 | 1378.2 | 1153.1 | 907.3 | 655.1 | 435.9 | 282.8 | 8.3  |
| 46°   | 1742.5 | 1697.3 | 1625.7 | 1506.7 | 1339.0 | 1123.6 | 881.0 | 633.8 | 419.9 | 272.5 | 7.4  |
| 47°   | 1651.0 | 1607.1 | 1533.7 | 1426.1 | 1272.0 | 1071.1 | 843.0 | 603.9 | 397.6 | 257.5 | 6.6  |
| 48°   | 1518.3 | 1490.8 | 1417.2 | 1325.2 | 1179.1 | 989.0  | 776.3 | 555.1 | 367.7 | 238.2 | 5.6  |
| 49°   | 1401.0 | 1372.1 | 1307.6 | 1208.7 | 1057.9 | 893.3  | 696.6 | 495.7 | 328.7 | 216.6 | 4.9  |
| 50°   | 1288.9 | 1263.7 | 1204.1 | 1092.5 | 948.5  | 777.8  | 588.9 | 420.9 | 279.6 | 189.8 | 4.2  |
| 51°   | 1179.3 | 1160.4 | 1099.6 | 997.1  | 850.9  | 689.0  | 510.2 | 350.5 | 231.1 | 157.5 | 3.9  |
| 52°   | 1069.2 | 1067.0 | 1001.0 | 897.2  | 755.9  | 600.4  | 433.7 | 295.8 | 196.0 | 132.2 | 3.7  |
| 53°   | 950.7  | 936.5  | 878.8  | 785.6  | 650.0  | 508.2  | 367.7 | 249.4 | 168.8 | 112.6 | 3.2  |
| 54°   | 815.8  | 799.9  | 738.0  | 653.9  | 531.0  | 416.2  | 296.3 | 201.6 | 140.5 | 95.2  | 2.9  |
| 55°   | 665.7  | 638.5  | 593.6  | 507.2  | 414.8  | 317.6  | 228.8 | 159.7 | 112.3 | 79.2  | 2.5  |
| 56°   | 505.0  | 477.8  | 452.5  | 389.0  | 304.4  | 236.9  | 170.5 | 122.4 | 87.8  | 62.5  | 2.2  |
| 57°   | 351.2  | 349.8  | 308.3  | 259.5  | 203.6  | 161.4  | 116.8 | 86.3  | 62.1  | 48.6  | 1.7  |
| 58°   | 227.9  | 220.3  | 193.8  | 165.6  | 133.2  | 100.8  | 75.1  | 58.6  | 42.2  | 33.1  | 1.5  |
| 59°   | 159.7  | 144.5  | 130.2  | 110.4  | 83.9   | 63.5   | 48.3  | 37.5  | 29.2  | 23.1  | 1.0  |
| 60°   | 98.1   | 94.9   | 85.4   | 67.2   | 54.5   | 44.9   | 36.1  | 27.7  | 21.3  | 16.4  | 0.5  |
| 62.5° | 28.0   | 28.5   | 25.8   | 22.8   | 19.6   | 16.9   | 15.2  | 13.0  | 10.8  | 8.6   | 0.0  |
| 65°   | 6.4    | 6.1    | 6.6    | 6.1    | 5.6    | 5.6    | 4.9   | 4.4   | 3.9   | 3.7   | 0.0  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 2.0 | 2.0  | 1.7 | 1.7  | 1.7 | 1.5   | 1.5 | 1.2   | 1.2 | 1.0   | 0.0 |
| 70°   | 0.7 | 0.7  | 0.7 | 0.7  | 0.7 | 0.5   | 0.5 | 0.5   | 0.2 | 0.2   | 0.0 |
| 72.5° | 0.7 | 0.7  | 0.7 | 0.5  | 0.5 | 0.5   | 0.5 | 0.5   | 0.2 | 0.2   | 0.2 |
| 75°   | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.5   | 0.5 | 0.2   | 0.2 | 0.2   | 0.2 |
| 77.5° | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.2   | 0.5 | 0.2   | 0.2 | 0.2   | 0.2 |
| 80°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 |
| 82.5° | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 |
| 85°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.0 | 0.0   | 0.2 | 0.2   | 0.2 | 0.0   | 0.2 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.2 |
| 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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CATALOG NUMBER: P3A05R209030DE010 E3A451MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 18.2  | 18.2 | 18.2   | 18.2 | 18.2   | 18.2 |
| 2.5°  | 18.9  | 17.9 | 17.2   | 16.4 | 16.2   | 16.2 |
| 5°    | 18.4  | 16.9 | 15.5   | 14.7 | 14.2   | 14.2 |
| 7.5°  | 16.9  | 15.2 | 13.7   | 13.0 | 12.8   | 12.8 |
| 10°   | 15.2  | 13.2 | 11.8   | 11.3 | 11.3   | 11.0 |
| 12.5° | 13.2  | 11.3 | 10.3   | 10.1 | 10.1   | 10.1 |
| 15°   | 11.0  | 9.6  | 8.8    | 8.8  | 9.1    | 9.3  |
| 17.5° | 9.3   | 7.8  | 7.6    | 8.1  | 8.6    | 8.6  |
| 20°   | 7.8   | 6.9  | 6.9    | 7.4  | 7.8    | 8.1  |
| 22.5° | 6.6   | 5.9  | 6.1    | 6.9  | 7.6    | 7.8  |
| 25°   | 5.9   | 5.2  | 5.6    | 6.4  | 7.1    | 7.6  |
| 27.5° | 4.9   | 4.7  | 5.2    | 6.1  | 7.1    | 7.4  |
| 30°   | 4.2   | 4.2  | 4.9    | 5.9  | 6.9    | 7.1  |
| 31°   | 3.9   | 3.9  | 4.9    | 5.9  | 6.9    | 7.1  |
| 32°   | 3.7   | 3.9  | 4.7    | 5.9  | 6.9    | 7.1  |
| 33°   | 3.4   | 3.7  | 4.7    | 5.6  | 6.9    | 7.1  |
| 34°   | 3.2   | 3.7  | 4.7    | 5.6  | 6.9    | 7.1  |
| 35°   | 2.9   | 3.7  | 4.7    | 5.6  | 6.9    | 7.1  |
| 36°   | 2.7   | 3.4  | 4.4    | 5.6  | 6.9    | 7.1  |
| 37°   | 2.5   | 3.4  | 4.4    | 5.6  | 6.9    | 7.1  |
| 38°   | 2.2   | 3.2  | 4.4    | 5.6  | 6.9    | 7.1  |
| 39°   | 2.2   | 3.2  | 4.2    | 5.6  | 6.6    | 7.1  |
| 40°   | 2.0   | 2.9  | 4.2    | 5.6  | 6.6    | 7.1  |
| 41°   | 1.7   | 2.9  | 4.2    | 5.4  | 6.6    | 7.1  |
| 42°   | 1.5   | 2.7  | 3.9    | 5.4  | 6.6    | 7.1  |
| 43°   | 1.2   | 2.7  | 3.9    | 5.4  | 6.6    | 7.1  |
| 44°   | 1.2   | 2.5  | 3.9    | 5.4  | 6.6    | 7.1  |
| 45°   | 1.0   | 2.5  | 3.9    | 5.4  | 6.6    | 7.1  |
| 46°   | 0.7   | 2.5  | 3.9    | 5.4  | 6.6    | 7.1  |
| 47°   | 0.7   | 2.2  | 3.7    | 5.4  | 6.6    | 7.1  |
| 48°   | 0.5   | 2.2  | 3.7    | 5.4  | 6.6    | 7.1  |
| 49°   | 0.5   | 2.2  | 3.7    | 5.4  | 6.6    | 7.4  |
| 50°   | 0.5   | 2.2  | 3.7    | 5.2  | 6.6    | 7.4  |
| 51°   | 0.2   | 2.2  | 3.7    | 5.2  | 6.6    | 7.4  |
| 52°   | 0.2   | 2.2  | 3.4    | 5.2  | 6.9    | 7.4  |
| 53°   | 0.2   | 2.0  | 3.4    | 5.2  | 6.9    | 7.4  |
| 54°   | 0.2   | 2.0  | 3.4    | 5.2  | 6.9    | 7.1  |
| 55°   | 0.2   | 2.0  | 3.4    | 5.2  | 6.6    | 7.1  |
| 56°   | 0.2   | 1.7  | 3.4    | 5.2  | 6.6    | 7.1  |
| 57°   | 0.2   | 1.7  | 3.2    | 4.9  | 6.6    | 6.9  |
| 58°   | 0.2   | 1.7  | 3.2    | 4.9  | 6.6    | 6.9  |
| 59°   | 0.2   | 1.7  | 3.2    | 4.9  | 6.4    | 6.9  |
| 60°   | 0.5   | 1.5  | 2.9    | 4.7  | 6.4    | 6.9  |
| 62.5° | 0.5   | 1.5  | 2.9    | 4.7  | 6.1    | 6.6  |
| 65°   | 0.5   | 1.5  | 2.7    | 4.4  | 6.1    | 6.6  |



TEST NUMBER: P1336834

CATALOG NUMBER: P3A05R209030DE010 E3A451MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.5   | 1.2 | 2.5    | 4.2  | 5.9    | 6.4  |
| 70°   | 0.5   | 1.5 | 2.5    | 3.9  | 5.6    | 6.1  |
| 72.5° | 0.7   | 1.2 | 2.2    | 3.7  | 5.4    | 5.9  |
| 75°   | 0.7   | 1.2 | 2.2    | 3.4  | 5.2    | 5.4  |
| 77.5° | 1.0   | 1.2 | 2.0    | 2.9  | 4.7    | 4.9  |
| 80°   | 1.0   | 1.2 | 1.7    | 2.5  | 3.9    | 4.2  |
| 82.5° | 1.0   | 1.2 | 1.2    | 2.0  | 2.9    | 3.2  |
| 85°   | 0.7   | 1.0 | 1.0    | 1.2  | 2.0    | 2.2  |
| 87.5° | 0.7   | 1.0 | 0.7    | 0.5  | 1.0    | 1.0  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)