

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: P1344483

Luminaire Tested: P3A13R259727DE010 E3A451LI

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1344483  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R259727DE010 E3A451LI  
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 97CRI , E3A451LI TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

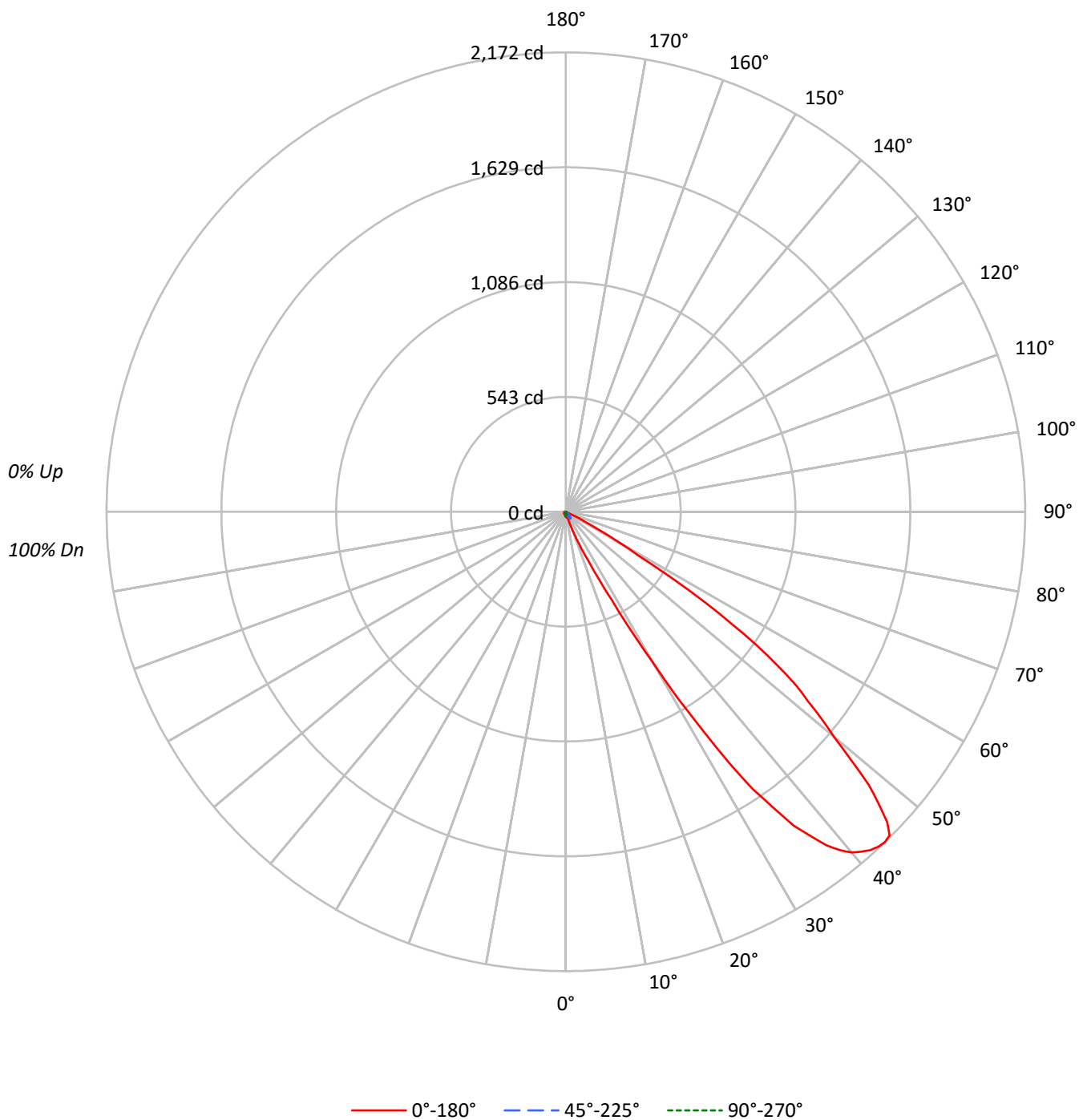
Lumens per Lamp: N/A  
Luminaire Lumens: 453.1 lumens  
Efficiency: N/A  
Efficacy: 31.0 lumens/watt  
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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: P1344483

CATALOG NUMBER: P3A13R259727DE010 E3A451LI

### Luminous Intensity Polar Plot



TEST NUMBER: P1344483

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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   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 97  | 100 | 97  | 94  |  | 96  | 94  | 92  |  | 92  |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  |  | 85  | 81  | 77  |  | 82  |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  |  | 74  | 69  | 64  |  | 72  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  |  | 65  | 59  | 54  |  | 63  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  |  | 57  | 50  | 45  |  | 55  |
| 6   | 68  | 55  | 45  | 39  | 66  | 54  | 45  | 39  | 52  | 44  | 38  |  | 50  | 43  | 38  |  | 48  |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 39  | 32  | 46  | 38  | 32  |  | 44  | 37  | 32  |  | 43  |
| 8   | 57  | 43  | 34  | 27  | 55  | 42  | 33  | 27  | 40  | 33  | 27  |  | 39  | 32  | 27  |  | 38  |
| 9   | 52  | 38  | 29  | 23  | 51  | 37  | 29  | 23  | 36  | 28  | 23  |  | 35  | 28  | 23  |  | 34  |
| 10  | 48  | 34  | 25  | 20  | 47  | 33  | 25  | 20  | 32  | 25  | 20  |  | 31  | 24  | 19  |  | 30  |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 5065   | 5065  | 5065 | 5065 | 5065 |
| 5°  | 5789   | 5525  | 4909 | 4380 | 4292 |
| 10° | 5767   | 5233  | 4164 | 3629 | 3629 |
| 15° | 6425   | 4518  | 3269 | 3087 | 3269 |
| 20° | 22705  | 4457  | 2520 | 2614 | 2894 |
| 25° | 65302  | 5686  | 2032 | 2419 | 2807 |
| 30° | 208336 | 8786  | 1621 | 2329 | 2836 |
| 35° | 456281 | 10360 | 1392 | 2249 | 2891 |
| 40° | 601928 | 9360  | 1145 | 2290 | 3092 |
| 45° | 671263 | 6543  | 1116 | 2481 | 3349 |
| 50° | 565030 | 3411  | 1092 | 2593 | 3684 |
| 55° | 422446 | 1376  | 1070 | 2906 | 4129 |
| 60° | 130779 | 351   | 1053 | 3158 | 4561 |
| 65° | 11156  | 0     | 1245 | 3321 | 4981 |
| 70° | 769    | 256   | 1282 | 3847 | 5642 |
| 75° | 678    | 339   | 1694 | 4067 | 6439 |
| 80° | 505    | 505   | 2526 | 4546 | 7577 |
| 85° | 1006   | 1006  | 4026 | 5032 | 8051 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 671263 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.1    | 0.5       |
| 10°-20°   | 5.3    | 1.2       |
| 20°-30°   | 25.1   | 5.5       |
| 30°-40°   | 120.7  | 26.6      |
| 40°-50°   | 189.1  | 41.7      |
| 50°-60°   | 97.0   | 21.4      |
| 60°-70°   | 9.2    | 2.0       |
| 70°-80°   | 3.1    | 0.7       |
| 80°-90°   | 1.5    | 0.3       |
| 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°    | 32.5   | 7.2       |
| 0°-40°    | 153.2  | 33.8      |
| 0°-60°    | 439.3  | 97.0      |
| 0°-90°    | 453.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 453.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 23   | 23  | 23  | 23   | 23   |      |
| 5°  | 26   | 25  | 22  | 20   | 20   | 2    |
| 15° | 28   | 20  | 14  | 14   | 14   | 12   |
| 25° | 270  | 24  | 8   | 10   | 12   | 167  |
| 35° | 1704 | 39  | 5   | 8    | 11   | 1035 |
| 45° | 2165 | 21  | 4   | 8    | 11   | 1584 |
| 55° | 1105 | 4   | 3   | 8    | 11   | 920  |
| 65° | 22   | 0   | 2   | 6    | 10   | 67   |
| 75° | 1    | 0   | 2   | 5    | 8    | 1    |
| 85° | 0    | 0   | 2   | 2    | 3    | 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°    | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 23.1  | 23.1  | 23.1 |
| 2.5°  | 25.1   | 25.1   | 25.1   | 25.1   | 25.1   | 25.1   | 24.7   | 24.7   | 25.1  | 24.7  | 24.7 |
| 5°    | 26.3   | 26.3   | 26.3   | 26.3   | 26.3   | 26.3   | 26.3   | 25.9   | 25.9  | 25.9  | 25.1 |
| 7.5°  | 26.7   | 26.3   | 26.3   | 26.3   | 26.3   | 26.3   | 26.3   | 26.3   | 25.9  | 25.9  | 24.7 |
| 10°   | 25.9   | 25.9   | 25.9   | 25.9   | 25.5   | 25.5   | 25.5   | 25.1   | 25.1  | 25.1  | 23.5 |
| 12.5° | 25.9   | 25.9   | 25.9   | 25.9   | 25.5   | 25.5   | 25.1   | 25.1   | 24.7  | 24.3  | 21.5 |
| 15°   | 28.3   | 28.3   | 28.3   | 27.9   | 27.5   | 27.1   | 26.7   | 26.3   | 25.9  | 25.1  | 19.9 |
| 17.5° | 41.5   | 40.3   | 39.9   | 38.3   | 36.3   | 34.3   | 32.7   | 31.1   | 29.5  | 28.3  | 19.1 |
| 20°   | 97.3   | 96.9   | 94.9   | 90.1   | 84.9   | 78.9   | 72.9   | 66.2   | 56.6  | 50.2  | 19.1 |
| 22.5° | 168.6  | 166.2  | 162.6  | 159.1  | 149.9  | 139.1  | 128.0  | 115.2  | 102.8 | 89.7  | 20.3 |
| 25°   | 269.9  | 275.5  | 263.5  | 253.9  | 238.0  | 218.4  | 197.3  | 179.8  | 157.5 | 136.7 | 23.5 |
| 27.5° | 469.2  | 472.8  | 449.3  | 418.2  | 381.1  | 340.0  | 300.2  | 270.3  | 232.8 | 198.5 | 29.5 |
| 30°   | 822.8  | 826.4  | 786.9  | 720.7  | 644.2  | 576.8  | 485.5  | 405.4  | 331.7 | 274.7 | 34.7 |
| 31°   | 1026.9 | 999.0  | 953.1  | 888.9  | 792.1  | 690.4  | 580.8  | 483.9  | 390.7 | 315.7 | 36.3 |
| 32°   | 1204.3 | 1201.9 | 1148.5 | 1051.2 | 953.9  | 828.4  | 692.4  | 566.1  | 451.6 | 357.2 | 37.5 |
| 33°   | 1413.5 | 1397.6 | 1322.3 | 1230.6 | 1101.8 | 975.4  | 800.0  | 655.7  | 514.2 | 403.4 | 38.3 |
| 34°   | 1581.4 | 1538.3 | 1507.2 | 1402.4 | 1266.4 | 1105.4 | 917.6  | 750.6  | 592.4 | 448.1 | 38.7 |
| 35°   | 1704.5 | 1695.4 | 1634.8 | 1537.1 | 1398.8 | 1234.2 | 1044.4 | 849.1  | 657.7 | 499.9 | 38.7 |
| 36°   | 1834.9 | 1806.6 | 1747.6 | 1659.1 | 1524.4 | 1354.1 | 1141.3 | 934.4  | 733.9 | 546.5 | 38.3 |
| 37°   | 1916.6 | 1899.9 | 1841.3 | 1750.0 | 1618.0 | 1455.4 | 1249.7 | 1024.5 | 794.5 | 593.2 | 37.5 |
| 38°   | 2000.7 | 1966.8 | 1909.0 | 1821.7 | 1692.2 | 1539.5 | 1328.2 | 1093.8 | 850.3 | 634.2 | 36.3 |
| 39°   | 2058.9 | 2023.8 | 1964.8 | 1877.9 | 1751.2 | 1599.7 | 1390.4 | 1152.8 | 898.9 | 664.9 | 34.7 |
| 40°   | 2102.8 | 2068.9 | 2009.1 | 1919.8 | 1794.6 | 1647.1 | 1442.2 | 1205.1 | 939.6 | 691.6 | 32.7 |
| 41°   | 2129.9 | 2098.4 | 2039.0 | 1950.1 | 1824.5 | 1674.2 | 1476.1 | 1238.9 | 967.1 | 709.6 | 30.7 |
| 42°   | 2152.6 | 2120.3 | 2059.7 | 1968.8 | 1842.9 | 1697.4 | 1496.9 | 1260.5 | 985.8 | 718.7 | 29.1 |
| 43°   | 2165.4 | 2133.1 | 2074.1 | 1981.2 | 1854.0 | 1708.1 | 1508.0 | 1270.4 | 992.2 | 717.5 | 26.3 |
| 44°   | 2172.5 | 2139.0 | 2079.6 | 1986.8 | 1858.8 | 1710.9 | 1508.8 | 1268.4 | 987.8 | 708.0 | 23.9 |
| 45°   | 2164.6 | 2131.5 | 2074.1 | 1981.2 | 1850.4 | 1702.1 | 1500.8 | 1257.7 | 971.1 | 689.2 | 21.1 |
| 46°   | 2112.7 | 2087.2 | 2034.6 | 1949.3 | 1824.1 | 1679.8 | 1480.5 | 1236.9 | 945.2 | 666.1 | 17.9 |
| 47°   | 2021.4 | 2001.1 | 1950.1 | 1886.7 | 1773.5 | 1638.8 | 1443.0 | 1197.5 | 908.9 | 631.4 | 14.4 |
| 48°   | 1926.2 | 1896.3 | 1848.8 | 1783.9 | 1688.2 | 1565.0 | 1381.3 | 1139.7 | 853.9 | 586.0 | 12.8 |
| 49°   | 1785.5 | 1767.9 | 1726.1 | 1653.5 | 1574.2 | 1465.8 | 1294.0 | 1065.5 | 786.5 | 536.6 | 11.2 |
| 50°   | 1656.3 | 1644.3 | 1585.7 | 1532.3 | 1448.2 | 1347.0 | 1175.6 | 967.9  | 702.8 | 475.2 | 10.0 |
| 51°   | 1555.5 | 1541.1 | 1498.8 | 1432.3 | 1342.6 | 1225.0 | 1063.5 | 841.1  | 606.7 | 402.2 | 8.0  |
| 52°   | 1450.2 | 1442.2 | 1404.8 | 1336.2 | 1248.1 | 1130.9 | 954.7  | 733.5  | 513.4 | 340.0 | 6.4  |
| 53°   | 1364.1 | 1352.5 | 1306.7 | 1245.7 | 1150.4 | 1029.3 | 836.7  | 633.4  | 434.9 | 285.8 | 5.6  |
| 54°   | 1238.5 | 1233.8 | 1204.3 | 1140.5 | 1037.2 | 905.3  | 729.9  | 533.4  | 362.8 | 242.4 | 4.8  |
| 55°   | 1105.0 | 1089.1 | 1059.2 | 1008.5 | 913.7  | 790.5  | 606.3  | 442.1  | 293.4 | 204.1 | 3.6  |
| 56°   | 942.4  | 941.6  | 888.1  | 845.9  | 761.8  | 631.0  | 484.3  | 345.2  | 238.4 | 170.2 | 3.2  |
| 57°   | 786.9  | 761.8  | 710.4  | 668.5  | 578.0  | 478.8  | 359.6  | 258.7  | 186.6 | 137.9 | 2.4  |
| 58°   | 582.0  | 568.8  | 555.3  | 493.9  | 410.2  | 339.2  | 256.7  | 181.8  | 137.9 | 105.2 | 1.6  |
| 59°   | 395.0  | 394.6  | 378.7  | 332.1  | 283.8  | 211.3  | 160.2  | 123.6  | 94.9  | 77.3  | 1.2  |
| 60°   | 298.2  | 291.0  | 259.1  | 228.4  | 178.6  | 133.5  | 94.9   | 72.9   | 59.0  | 49.8  | 0.8  |
| 62.5° | 104.4  | 108.4  | 95.3   | 78.9   | 60.2   | 49.4   | 37.9   | 30.7   | 25.1  | 20.3  | 0.0  |
| 65°   | 21.5   | 23.5   | 20.3   | 19.1   | 15.1   | 13.2   | 11.6   | 10.0   | 8.4   | 7.2   | 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° | 2.8 | 2.4  | 2.4 | 2.4  | 2.0 | 2.0   | 2.0 | 2.0   | 1.6 | 1.6   | 0.4 |
| 70°   | 1.2 | 1.2  | 1.2 | 1.2  | 1.2 | 1.2   | 0.8 | 0.8   | 0.8 | 0.8   | 0.4 |
| 72.5° | 1.2 | 1.2  | 1.2 | 0.8  | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.4   | 0.4 |
| 75°   | 0.8 | 0.8  | 0.8 | 0.8  | 0.8 | 0.8   | 0.8 | 0.4   | 0.4 | 0.4   | 0.4 |
| 77.5° | 0.8 | 0.8  | 0.8 | 0.8  | 0.8 | 0.8   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 80°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 82.5° | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.8 |
| 85°   | 0.4 | 0.4  | 0.4 | 0.0  | 0.0 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.4 |
| 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):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 23.1  | 23.1 | 23.1   | 23.1 | 23.1   | 23.1 |
| 2.5°  | 24.3  | 23.5 | 22.3   | 21.9 | 21.5   | 21.5 |
| 5°    | 23.9  | 22.3 | 21.1   | 19.9 | 19.5   | 19.5 |
| 7.5°  | 22.7  | 20.7 | 19.1   | 18.3 | 17.9   | 17.5 |
| 10°   | 21.5  | 18.7 | 17.1   | 16.3 | 16.3   | 16.3 |
| 12.5° | 19.1  | 16.7 | 15.1   | 14.7 | 15.1   | 15.1 |
| 15°   | 17.1  | 14.4 | 13.6   | 13.6 | 14.0   | 14.4 |
| 17.5° | 14.7  | 12.8 | 12.0   | 12.4 | 12.8   | 13.2 |
| 20°   | 13.2  | 10.8 | 10.8   | 11.2 | 12.4   | 12.4 |
| 22.5° | 11.6  | 9.6  | 9.6    | 10.8 | 11.6   | 12.0 |
| 25°   | 10.4  | 8.4  | 8.8    | 10.0 | 11.2   | 11.6 |
| 27.5° | 8.8   | 7.2  | 8.0    | 9.6  | 10.8   | 11.2 |
| 30°   | 7.6   | 6.4  | 7.6    | 9.2  | 10.4   | 11.2 |
| 31°   | 7.2   | 6.0  | 7.6    | 8.8  | 10.4   | 11.2 |
| 32°   | 6.4   | 6.0  | 7.2    | 8.8  | 10.4   | 10.8 |
| 33°   | 6.0   | 5.6  | 7.2    | 8.8  | 10.4   | 10.8 |
| 34°   | 5.6   | 5.2  | 6.8    | 8.8  | 10.4   | 10.8 |
| 35°   | 4.8   | 5.2  | 6.8    | 8.4  | 10.0   | 10.8 |
| 36°   | 4.4   | 4.8  | 6.8    | 8.4  | 10.0   | 10.8 |
| 37°   | 4.0   | 4.8  | 6.4    | 8.4  | 10.0   | 10.8 |
| 38°   | 3.6   | 4.4  | 6.4    | 8.4  | 10.0   | 10.8 |
| 39°   | 3.2   | 4.4  | 6.0    | 8.4  | 10.0   | 10.8 |
| 40°   | 2.8   | 4.0  | 6.0    | 8.0  | 10.0   | 10.8 |
| 41°   | 2.8   | 4.0  | 6.0    | 8.0  | 10.0   | 10.8 |
| 42°   | 2.4   | 4.0  | 6.0    | 8.0  | 10.0   | 10.8 |
| 43°   | 2.0   | 3.6  | 6.0    | 8.0  | 10.0   | 10.8 |
| 44°   | 1.6   | 3.6  | 5.6    | 8.0  | 10.0   | 10.8 |
| 45°   | 1.6   | 3.6  | 5.6    | 8.0  | 10.0   | 10.8 |
| 46°   | 1.2   | 3.2  | 5.6    | 8.0  | 10.0   | 10.8 |
| 47°   | 0.8   | 3.2  | 5.6    | 7.6  | 10.0   | 10.8 |
| 48°   | 0.8   | 3.2  | 5.6    | 7.6  | 10.0   | 10.8 |
| 49°   | 0.8   | 3.2  | 5.2    | 7.6  | 10.0   | 10.8 |
| 50°   | 0.8   | 3.2  | 5.2    | 7.6  | 10.0   | 10.8 |
| 51°   | 0.4   | 2.8  | 5.2    | 7.6  | 10.0   | 10.8 |
| 52°   | 0.4   | 2.8  | 5.2    | 7.6  | 10.0   | 11.2 |
| 53°   | 0.4   | 2.8  | 5.2    | 7.6  | 10.0   | 10.8 |
| 54°   | 0.4   | 2.8  | 4.8    | 7.6  | 10.0   | 10.8 |
| 55°   | 0.4   | 2.8  | 4.8    | 7.6  | 10.0   | 10.8 |
| 56°   | 0.4   | 2.4  | 4.8    | 7.2  | 10.0   | 10.8 |
| 57°   | 0.8   | 2.4  | 4.8    | 7.2  | 10.0   | 10.4 |
| 58°   | 0.8   | 2.4  | 4.8    | 7.2  | 9.6    | 10.4 |
| 59°   | 0.8   | 2.4  | 4.8    | 7.2  | 9.6    | 10.4 |
| 60°   | 0.8   | 2.4  | 4.4    | 7.2  | 9.6    | 10.4 |
| 62.5° | 0.8   | 2.4  | 4.4    | 6.8  | 9.2    | 10.0 |
| 65°   | 0.8   | 2.4  | 4.0    | 6.4  | 9.2    | 9.6  |





TEST NUMBER: P1344483

CATALOG NUMBER: P3A13R259727DE010 E3A451LI

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.8   | 2.0 | 4.0    | 6.0  | 8.8    | 9.2  |
| 70°   | 1.2   | 2.0 | 3.6    | 6.0  | 8.4    | 8.8  |
| 72.5° | 1.2   | 2.0 | 3.6    | 5.2  | 7.6    | 8.4  |
| 75°   | 1.2   | 2.0 | 3.2    | 4.8  | 7.2    | 7.6  |
| 77.5° | 1.2   | 2.0 | 2.8    | 4.4  | 6.4    | 6.8  |
| 80°   | 1.6   | 2.0 | 2.4    | 3.6  | 5.6    | 6.0  |
| 82.5° | 1.6   | 2.0 | 2.0    | 2.8  | 4.4    | 4.8  |
| 85°   | 1.2   | 1.6 | 1.6    | 2.0  | 2.8    | 3.2  |
| 87.5° | 1.2   | 1.6 | 1.2    | 0.8  | 1.6    | 1.6  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)