

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: P1340003

Luminaire Tested: P3A09R159827DE010 E3A451WH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1340003  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A09R159827DE010 E3A451WH  
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , E3A451WH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

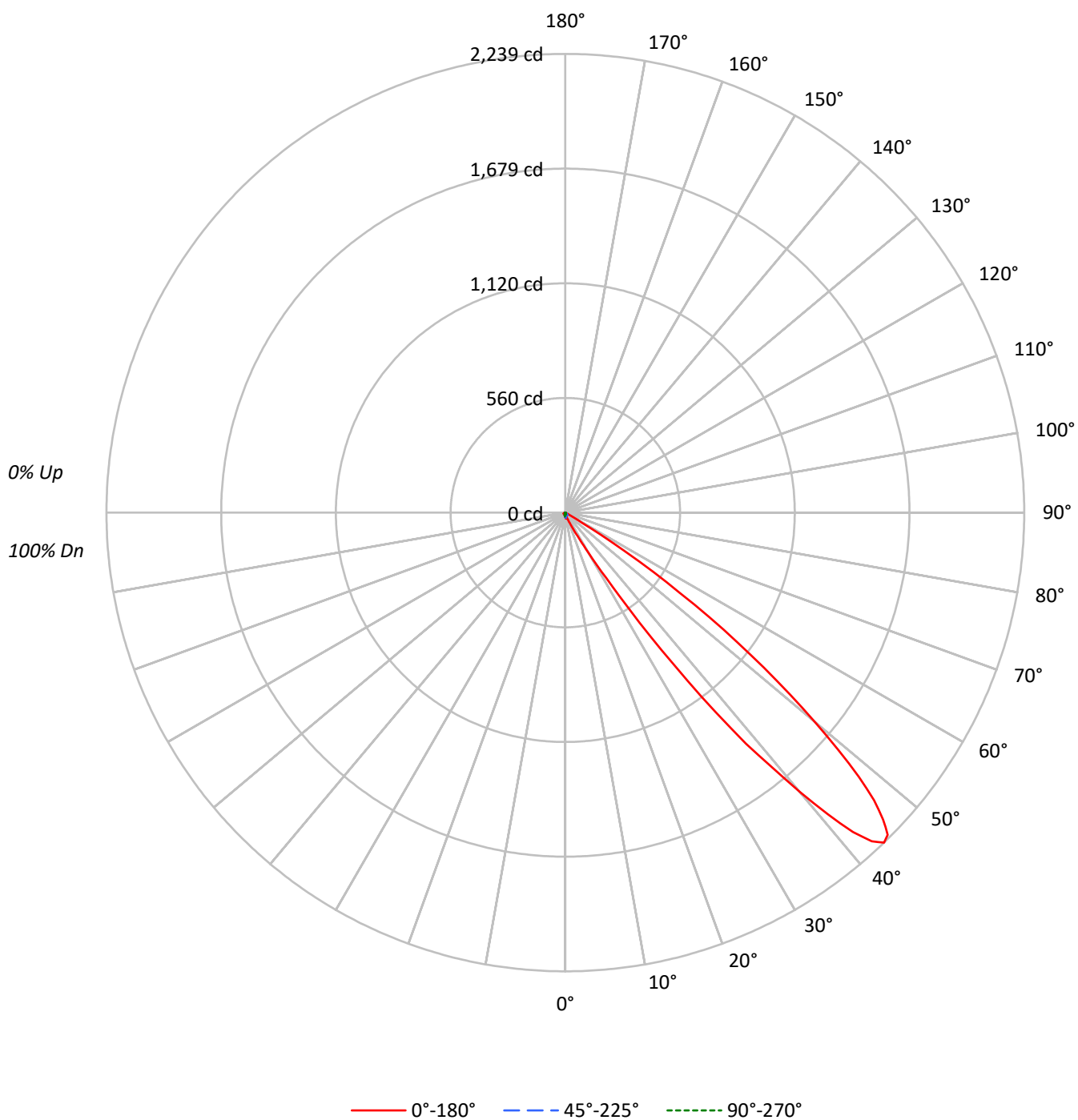
Lumens per Lamp: N/A  
Luminaire Lumens: 249.9 lumens  
Efficiency: N/A  
Efficacy: 22.7 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.09  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
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

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CATALOG NUMBER: P3A09R159827DE010 E3A451WH

### 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   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 100 | 97  | 94  |  | 96  | 93  | 91  |  | 92  |
| 2   | 101 | 93  | 87  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  |  | 84  | 80  | 77  |  | 81  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  |  | 74  | 68  | 64  |  | 71  |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  |  | 64  | 58  | 53  |  | 62  |
| 5   | 75  | 62  | 52  | 46  | 73  | 61  | 52  | 45  | 58  | 51  | 45  |  | 56  | 50  | 44  |  | 55  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  |  | 49  | 42  | 37  |  | 48  |
| 7   | 62  | 47  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  |  | 44  | 36  | 31  |  | 42  |
| 8   | 56  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 26  |  | 39  | 31  | 26  |  | 37  |
| 9   | 52  | 37  | 28  | 22  | 50  | 37  | 28  | 22  | 35  | 28  | 22  |  | 34  | 27  | 22  |  | 33  |
| 10  | 48  | 33  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 24  | 19  |  | 31  | 24  | 19  |  | 30  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 4868   | 4868 | 4868 | 4868 | 4868 |
| 5°  | 6031   | 5371 | 4380 | 3830 | 3786 |
| 10° | 5945   | 4609 | 3384 | 3006 | 3050 |
| 15° | 4926   | 3292 | 2429 | 2497 | 2656 |
| 20° | 8541   | 2614 | 1867 | 2147 | 2450 |
| 25° | 19066  | 3145 | 1500 | 1984 | 2299 |
| 30° | 56996  | 3849 | 1317 | 1950 | 2405 |
| 35° | 219401 | 4337 | 1205 | 2008 | 2543 |
| 40° | 509268 | 3779 | 1145 | 2061 | 2719 |
| 45° | 689777 | 2853 | 992  | 2233 | 2946 |
| 50° | 540844 | 1706 | 1023 | 2388 | 3241 |
| 55° | 259585 | 765  | 956  | 2561 | 3517 |
| 60° | 23726  | 88   | 877  | 2719 | 3947 |
| 65° | 2594   | 0    | 778  | 2854 | 4255 |
| 70° | 641    | 0    | 962  | 3013 | 4616 |
| 75° | 593    | 169  | 1271 | 3389 | 5253 |
| 80° | 631    | 631  | 1515 | 3410 | 5683 |
| 85° | 503    | 503  | 2516 | 3019 | 6290 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 689777 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.9    | 0.8       |
| 10°-20°   | 3.9    | 1.6       |
| 20°-30°   | 9.4    | 3.8       |
| 30°-40°   | 51.7   | 20.7      |
| 40°-50°   | 125.2  | 50.1      |
| 50°-60°   | 50.0   | 20.0      |
| 60°-70°   | 4.3    | 1.7       |
| 70°-80°   | 2.4    | 1.0       |
| 80°-90°   | 1.1    | 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°    | 15.3   | 6.1       |
| 0°-40°    | 67.0   | 26.8      |
| 0°-60°    | 242.2  | 96.9      |
| 0°-90°    | 249.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 249.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 22   | 22  | 22  | 22   | 22   |      |
| 5°  | 27   | 24  | 20  | 17   | 17   | 3    |
| 15° | 22   | 14  | 11  | 11   | 12   | 8    |
| 25° | 79   | 13  | 6   | 8    | 10   | 48   |
| 35° | 820  | 16  | 4   | 8    | 10   | 579  |
| 45° | 2224 | 9   | 3   | 7    | 10   | 1569 |
| 55° | 679  | 2   | 2   | 7    | 9    | 633  |
| 65° | 5    | 0   | 2   | 6    | 8    | 13   |
| 75° | 1    | 0   | 2   | 4    | 6    | 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°    | 22.2   | 22.2   | 22.2   | 22.2   | 22.2   | 22.2   | 22.2  | 22.2  | 22.2  | 22.2  | 22.2 |
| 2.5°  | 24.9   | 24.9   | 25.2   | 24.9   | 24.9   | 24.9   | 24.9  | 24.7  | 24.7  | 24.7  | 23.9 |
| 5°    | 27.4   | 27.4   | 27.4   | 27.4   | 27.2   | 27.2   | 27.2  | 26.9  | 26.9  | 26.7  | 24.4 |
| 7.5°  | 28.4   | 28.4   | 28.2   | 28.2   | 27.9   | 27.9   | 27.7  | 27.4  | 27.2  | 26.9  | 23.4 |
| 10°   | 26.7   | 26.7   | 26.7   | 26.4   | 26.4   | 26.2   | 25.9  | 25.7  | 25.4  | 24.9  | 20.7 |
| 12.5° | 23.7   | 23.7   | 23.9   | 23.7   | 23.4   | 23.2   | 22.7  | 22.4  | 22.2  | 21.7  | 17.2 |
| 15°   | 21.7   | 21.7   | 21.7   | 21.4   | 21.2   | 20.7   | 20.4  | 19.9  | 19.7  | 18.9  | 14.5 |
| 17.5° | 27.7   | 27.7   | 27.4   | 26.9   | 25.9   | 25.2   | 23.9  | 22.9  | 21.7  | 20.2  | 12.5 |
| 20°   | 36.6   | 36.6   | 36.1   | 35.6   | 34.4   | 33.2   | 31.2  | 29.4  | 27.4  | 25.7  | 11.2 |
| 22.5° | 53.1   | 53.8   | 52.3   | 50.6   | 48.9   | 45.9   | 43.1  | 40.4  | 36.9  | 33.9  | 11.5 |
| 25°   | 78.8   | 79.5   | 78.8   | 74.8   | 71.5   | 67.6   | 62.3  | 56.8  | 50.9  | 45.4  | 13.0 |
| 27.5° | 127.6  | 128.1  | 126.9  | 117.2  | 111.9  | 101.5  | 92.2  | 83.3  | 73.3  | 63.3  | 14.2 |
| 30°   | 225.1  | 225.3  | 217.4  | 197.9  | 180.7  | 157.8  | 138.3 | 119.7 | 103.9 | 88.0  | 15.2 |
| 31°   | 296.4  | 289.4  | 272.5  | 249.0  | 221.6  | 190.7  | 164.0 | 139.8 | 116.4 | 99.2  | 15.5 |
| 32°   | 376.4  | 375.4  | 347.2  | 306.6  | 270.0  | 231.3  | 191.2 | 160.3 | 133.4 | 109.9 | 15.7 |
| 33°   | 482.3  | 482.8  | 438.5  | 390.6  | 330.5  | 278.7  | 226.1 | 183.7 | 151.3 | 122.6 | 16.2 |
| 34°   | 647.9  | 609.0  | 556.9  | 492.1  | 410.3  | 332.3  | 264.0 | 210.9 | 167.5 | 134.9 | 16.2 |
| 35°   | 819.6  | 780.5  | 723.1  | 624.9  | 512.8  | 403.6  | 309.1 | 240.1 | 187.0 | 148.1 | 16.2 |
| 36°   | 1012.1 | 978.9  | 892.1  | 766.8  | 623.7  | 470.9  | 357.0 | 273.7 | 206.1 | 160.0 | 16.0 |
| 37°   | 1219.9 | 1171.3 | 1075.1 | 938.3  | 746.8  | 565.6  | 415.3 | 307.1 | 225.3 | 173.0 | 15.5 |
| 38°   | 1431.1 | 1387.2 | 1265.8 | 1100.0 | 893.9  | 665.6  | 473.6 | 339.3 | 243.0 | 182.7 | 14.7 |
| 39°   | 1591.1 | 1567.2 | 1446.8 | 1261.6 | 1011.3 | 760.3  | 533.7 | 373.7 | 261.7 | 192.4 | 14.0 |
| 40°   | 1779.1 | 1740.4 | 1626.3 | 1397.2 | 1150.1 | 856.8  | 592.5 | 404.1 | 277.2 | 200.2 | 13.2 |
| 41°   | 1950.6 | 1901.7 | 1757.6 | 1536.3 | 1261.3 | 943.5  | 648.4 | 435.5 | 289.7 | 204.7 | 12.7 |
| 42°   | 2097.6 | 2040.8 | 1890.2 | 1655.4 | 1354.3 | 1012.8 | 693.0 | 457.9 | 301.4 | 208.4 | 12.0 |
| 43°   | 2192.9 | 2143.8 | 1995.7 | 1744.9 | 1433.8 | 1076.4 | 734.6 | 481.3 | 308.6 | 210.9 | 11.0 |
| 44°   | 2239.2 | 2189.6 | 2046.3 | 1801.0 | 1482.7 | 1114.5 | 761.5 | 497.5 | 316.6 | 214.1 | 10.2 |
| 45°   | 2224.3 | 2173.9 | 2035.3 | 1802.0 | 1497.9 | 1128.2 | 773.0 | 504.8 | 320.8 | 217.1 | 9.2  |
| 46°   | 2155.7 | 2120.3 | 1980.7 | 1755.1 | 1469.0 | 1113.5 | 766.5 | 499.3 | 319.3 | 217.1 | 8.2  |
| 47°   | 2059.5 | 2019.1 | 1886.3 | 1674.6 | 1398.9 | 1075.6 | 740.3 | 482.6 | 310.1 | 212.1 | 7.2  |
| 48°   | 1928.4 | 1894.0 | 1754.4 | 1546.7 | 1291.5 | 993.1  | 681.3 | 455.4 | 295.6 | 202.4 | 6.2  |
| 49°   | 1763.9 | 1716.0 | 1586.1 | 1383.2 | 1151.4 | 875.9  | 603.7 | 409.6 | 272.5 | 188.7 | 5.5  |
| 50°   | 1585.4 | 1526.3 | 1426.1 | 1219.4 | 1006.6 | 751.1  | 501.8 | 346.2 | 239.8 | 170.8 | 5.0  |
| 51°   | 1410.6 | 1350.6 | 1255.1 | 1079.4 | 852.0  | 623.2  | 404.8 | 276.4 | 197.4 | 146.1 | 4.2  |
| 52°   | 1229.4 | 1179.1 | 1072.1 | 934.0  | 729.4  | 505.0  | 337.3 | 233.8 | 164.0 | 122.6 | 3.5  |
| 53°   | 1048.9 | 1014.5 | 912.8  | 773.0  | 586.0  | 412.5  | 275.4 | 200.2 | 143.1 | 104.9 | 2.7  |
| 54°   | 868.2  | 830.6  | 753.3  | 628.7  | 472.4  | 325.6  | 233.6 | 167.5 | 124.1 | 91.5  | 2.5  |
| 55°   | 679.0  | 659.6  | 588.3  | 479.4  | 358.0  | 259.7  | 189.4 | 144.1 | 103.9 | 76.5  | 2.0  |
| 56°   | 523.0  | 501.0  | 436.0  | 347.7  | 266.0  | 203.4  | 153.3 | 117.7 | 88.0  | 64.1  | 1.5  |
| 57°   | 342.5  | 320.1  | 276.9  | 242.8  | 193.7  | 148.3  | 117.2 | 92.7  | 71.5  | 53.1  | 1.2  |
| 58°   | 202.4  | 182.0  | 175.2  | 149.6  | 129.1  | 100.7  | 86.5  | 69.0  | 52.8  | 41.9  | 0.7  |
| 59°   | 93.0   | 94.5   | 84.0   | 78.8   | 71.5   | 64.1   | 52.6  | 46.1  | 36.1  | 30.2  | 0.5  |
| 60°   | 54.1   | 51.1   | 49.9   | 44.6   | 39.6   | 35.1   | 31.7  | 27.9  | 22.7  | 19.4  | 0.2  |
| 62.5° | 18.4   | 17.7   | 18.2   | 16.5   | 15.5   | 15.0   | 13.7  | 11.7  | 9.7   | 8.0   | 0.0  |
| 65°   | 5.0    | 5.0    | 4.7    | 4.5    | 4.2    | 4.0    | 3.7   | 3.2   | 3.0   | 2.5   | 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° | 1.7 | 1.7  | 1.5 | 1.5  | 1.2 | 1.2   | 1.0 | 1.0   | 0.7 | 0.7   | 0.0 |
| 70°   | 1.0 | 1.0  | 1.0 | 0.7  | 0.7 | 0.7   | 0.5 | 0.5   | 0.5 | 0.2   | 0.0 |
| 72.5° | 0.7 | 0.7  | 0.7 | 0.7  | 0.7 | 0.7   | 0.5 | 0.5   | 0.5 | 0.2   | 0.2 |
| 75°   | 0.7 | 0.7  | 0.7 | 0.5  | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5   | 0.2 |
| 77.5° | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 80°   | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.2   | 0.5 |
| 82.5° | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.5 |
| 85°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 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: P3A09R159827DE010 E3A451WH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 22.2  | 22.2 | 22.2   | 22.2 | 22.2   | 22.2 |
| 2.5°  | 22.9  | 21.9 | 20.7   | 19.9 | 19.7   | 19.4 |
| 5°    | 21.9  | 19.9 | 18.4   | 17.4 | 17.2   | 17.2 |
| 7.5°  | 19.7  | 17.4 | 16.0   | 15.5 | 15.2   | 15.2 |
| 10°   | 17.2  | 15.2 | 14.0   | 13.5 | 13.7   | 13.7 |
| 12.5° | 14.5  | 12.7 | 12.2   | 12.2 | 12.5   | 12.7 |
| 15°   | 11.7  | 10.7 | 10.7   | 11.0 | 11.5   | 11.7 |
| 17.5° | 9.7   | 9.2  | 9.5    | 10.0 | 10.5   | 11.0 |
| 20°   | 8.0   | 8.0  | 8.5    | 9.2  | 10.0   | 10.5 |
| 22.5° | 6.7   | 7.0  | 7.7    | 8.5  | 9.5    | 10.0 |
| 25°   | 5.7   | 6.2  | 7.0    | 8.2  | 9.2    | 9.5  |
| 27.5° | 5.0   | 5.7  | 6.7    | 8.0  | 9.0    | 9.5  |
| 30°   | 4.2   | 5.2  | 6.5    | 7.7  | 9.0    | 9.5  |
| 31°   | 4.0   | 5.0  | 6.2    | 7.7  | 9.0    | 9.5  |
| 32°   | 3.7   | 5.0  | 6.2    | 7.7  | 9.0    | 9.5  |
| 33°   | 3.5   | 4.7  | 6.2    | 7.5  | 9.0    | 9.5  |
| 34°   | 3.2   | 4.7  | 6.2    | 7.7  | 9.0    | 9.5  |
| 35°   | 3.0   | 4.5  | 6.0    | 7.5  | 8.7    | 9.5  |
| 36°   | 2.7   | 4.5  | 6.0    | 7.5  | 9.0    | 9.5  |
| 37°   | 2.5   | 4.5  | 6.0    | 7.5  | 8.7    | 9.5  |
| 38°   | 2.5   | 4.2  | 5.7    | 7.5  | 8.7    | 9.5  |
| 39°   | 2.2   | 4.0  | 5.7    | 7.5  | 8.7    | 9.5  |
| 40°   | 2.0   | 4.0  | 5.5    | 7.2  | 8.7    | 9.5  |
| 41°   | 1.7   | 3.7  | 5.5    | 7.2  | 8.7    | 9.5  |
| 42°   | 1.5   | 3.7  | 5.5    | 7.2  | 8.7    | 9.5  |
| 43°   | 1.2   | 3.5  | 5.2    | 7.2  | 8.7    | 9.5  |
| 44°   | 1.2   | 3.5  | 5.2    | 7.2  | 8.7    | 9.5  |
| 45°   | 1.0   | 3.2  | 5.0    | 7.2  | 8.7    | 9.5  |
| 46°   | 1.0   | 3.2  | 5.0    | 7.0  | 8.7    | 9.5  |
| 47°   | 0.7   | 3.2  | 5.0    | 7.0  | 8.7    | 9.5  |
| 48°   | 0.7   | 3.0  | 5.0    | 7.0  | 8.7    | 9.5  |
| 49°   | 0.5   | 3.0  | 5.0    | 7.0  | 8.7    | 9.5  |
| 50°   | 0.5   | 3.0  | 4.7    | 7.0  | 8.7    | 9.5  |
| 51°   | 0.5   | 3.0  | 4.7    | 7.0  | 8.7    | 9.5  |
| 52°   | 0.5   | 2.7  | 4.7    | 7.0  | 8.7    | 9.5  |
| 53°   | 0.5   | 2.7  | 4.7    | 7.0  | 8.7    | 9.5  |
| 54°   | 0.5   | 2.7  | 4.5    | 7.0  | 8.7    | 9.5  |
| 55°   | 0.5   | 2.5  | 4.5    | 6.7  | 8.7    | 9.2  |
| 56°   | 0.5   | 2.5  | 4.5    | 6.7  | 8.7    | 9.2  |
| 57°   | 0.5   | 2.5  | 4.2    | 6.7  | 8.7    | 9.2  |
| 58°   | 0.5   | 2.2  | 4.2    | 6.5  | 8.5    | 9.2  |
| 59°   | 0.5   | 2.2  | 4.0    | 6.5  | 8.5    | 9.0  |
| 60°   | 0.5   | 2.0  | 4.0    | 6.2  | 8.2    | 9.0  |
| 62.5° | 0.5   | 1.7  | 3.5    | 6.0  | 8.0    | 8.5  |
| 65°   | 0.5   | 1.5  | 3.2    | 5.5  | 7.7    | 8.2  |





TEST NUMBER: P1340003

CATALOG NUMBER: P3A09R159827DE010 E3A451WH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.5   | 1.5 | 3.0    | 5.2  | 7.2    | 8.0  |
| 70°   | 0.5   | 1.5 | 2.7    | 4.7  | 7.0    | 7.2  |
| 72.5° | 0.7   | 1.5 | 2.5    | 4.5  | 6.5    | 6.7  |
| 75°   | 1.0   | 1.5 | 2.2    | 4.0  | 6.0    | 6.2  |
| 77.5° | 1.0   | 1.5 | 2.0    | 3.5  | 5.2    | 5.5  |
| 80°   | 1.0   | 1.2 | 1.7    | 2.7  | 4.2    | 4.5  |
| 82.5° | 1.0   | 1.2 | 1.2    | 2.2  | 3.2    | 3.5  |
| 85°   | 0.7   | 1.0 | 1.0    | 1.2  | 2.2    | 2.5  |
| 87.5° | 0.7   | 1.0 | 0.5    | 0.7  | 1.0    | 1.0  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)