

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: P1333977

Luminaire Tested: P3A02R159024DE010 E3A451WH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1333977  
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: P3A02R159024DE010 E3A451WH  
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , E3A451WH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

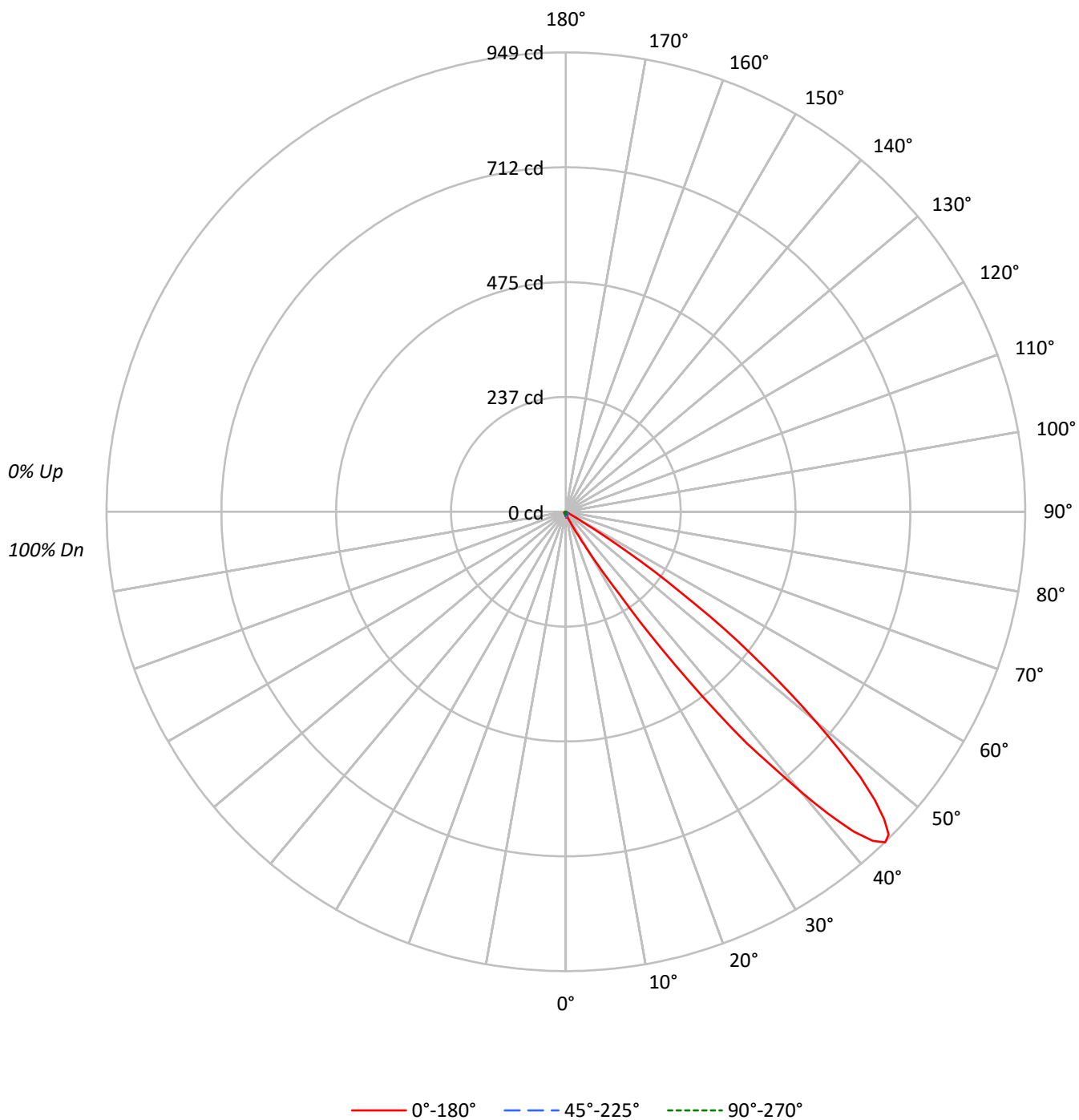
Lumens per Lamp: N/A  
Luminaire Lumens: 106.0 lumens  
Efficiency: N/A  
Efficacy: 29.4 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.09  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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: P1333977

CATALOG NUMBER: P3A02R159024DE010 E3A451WH

### Luminous Intensity Polar Plot



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CATALOG NUMBER: P3A02R159024DE010 E3A451WH

**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°  | 2061   | 2061 | 2061 | 2061 | 2061 |
| 5°  | 2553   | 2289 | 1871 | 1629 | 1607 |
| 10° | 2516   | 1959 | 1425 | 1269 | 1291 |
| 15° | 2089   | 1385 | 1022 | 1067 | 1135 |
| 20° | 3617   | 1120 | 793  | 910  | 1027 |
| 25° | 8081   | 1331 | 629  | 847  | 968  |
| 30° | 24156  | 1621 | 557  | 836  | 1013 |
| 35° | 93023  | 1847 | 509  | 857  | 1071 |
| 40° | 215919 | 1603 | 487  | 887  | 1145 |
| 45° | 292464 | 1209 | 434  | 961  | 1240 |
| 50° | 229314 | 716  | 443  | 1023 | 1365 |
| 55° | 110065 | 306  | 421  | 1109 | 1491 |
| 60° | 10043  | 44   | 351  | 1140 | 1667 |
| 65° | 1090   | 0    | 311  | 1193 | 1816 |
| 70° | 256    | 0    | 385  | 1282 | 1988 |
| 75° | 254    | 85   | 508  | 1440 | 2203 |
| 80° | 253    | 253  | 631  | 1515 | 2399 |
| 85° | 252    | 252  | 1006 | 1258 | 2768 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 292464 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.8    | 0.8       |
| 10°-20°   | 1.7    | 1.6       |
| 20°-30°   | 4.0    | 3.8       |
| 30°-40°   | 21.9   | 20.7      |
| 40°-50°   | 53.1   | 50.1      |
| 50°-60°   | 21.2   | 20.0      |
| 60°-70°   | 1.8    | 1.7       |
| 70°-80°   | 1.0    | 1.0       |
| 80°-90°   | 0.4    | 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°    | 6.5    | 6.1       |
| 0°-40°    | 28.4   | 26.8      |
| 0°-60°    | 102.7  | 96.9      |
| 0°-90°    | 106.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 106.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 9   | 9   | 9   | 9    | 9    |      |
| 5°  | 12  | 10  | 8   | 7    | 7    | 1    |
| 15° | 9   | 6   | 4   | 5    | 5    | 3    |
| 25° | 33  | 6   | 3   | 4    | 4    | 20   |
| 35° | 348 | 7   | 2   | 3    | 4    | 246  |
| 45° | 943 | 4   | 1   | 3    | 4    | 665  |
| 55° | 288 | 1   | 1   | 3    | 4    | 268  |
| 65° | 2   | 0   | 1   | 2    | 4    | 5    |
| 75° | 0   | 0   | 1   | 2    | 3    | 0    |
| 85° | 0   | 0   | 0   | 0    | 1    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1333977

CATALOG NUMBER: P3A02R159024DE010 E3A451WH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 2.5°  | 5°    | 7.5°  | 10°   | 12.5° | 15°   | 17.5° | 20°   | 22.5° | 45°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 0°    | 9.4   | 9.4   | 9.4   | 9.4   | 9.4   | 9.4   | 9.4   | 9.4   | 9.4   | 9.4   | 9.4  |
| 2.5°  | 10.6  | 10.6  | 10.7  | 10.6  | 10.6  | 10.6  | 10.6  | 10.5  | 10.5  | 10.5  | 10.1 |
| 5°    | 11.6  | 11.6  | 11.6  | 11.6  | 11.5  | 11.5  | 11.5  | 11.4  | 11.4  | 11.3  | 10.4 |
| 7.5°  | 12.0  | 12.0  | 11.9  | 11.9  | 11.8  | 11.8  | 11.7  | 11.6  | 11.5  | 11.4  | 9.9  |
| 10°   | 11.3  | 11.3  | 11.3  | 11.2  | 11.2  | 11.1  | 11.0  | 10.9  | 10.8  | 10.6  | 8.8  |
| 12.5° | 10.0  | 10.0  | 10.1  | 10.0  | 9.9   | 9.8   | 9.6   | 9.5   | 9.4   | 9.2   | 7.3  |
| 15°   | 9.2   | 9.2   | 9.2   | 9.1   | 9.0   | 8.8   | 8.7   | 8.5   | 8.3   | 8.0   | 6.1  |
| 17.5° | 11.7  | 11.7  | 11.6  | 11.4  | 11.0  | 10.7  | 10.1  | 9.7   | 9.2   | 8.6   | 5.3  |
| 20°   | 15.5  | 15.5  | 15.3  | 15.1  | 14.6  | 14.1  | 13.2  | 12.5  | 11.6  | 10.9  | 4.8  |
| 22.5° | 22.5  | 22.8  | 22.2  | 21.5  | 20.7  | 19.4  | 18.3  | 17.1  | 15.6  | 14.4  | 4.9  |
| 25°   | 33.4  | 33.7  | 33.4  | 31.7  | 30.3  | 28.6  | 26.4  | 24.1  | 21.6  | 19.2  | 5.5  |
| 27.5° | 54.1  | 54.3  | 53.8  | 49.7  | 47.5  | 43.0  | 39.1  | 35.3  | 31.1  | 26.8  | 6.0  |
| 30°   | 95.4  | 95.5  | 92.2  | 83.9  | 76.6  | 66.9  | 58.7  | 50.7  | 44.1  | 37.3  | 6.4  |
| 31°   | 125.7 | 122.7 | 115.5 | 105.6 | 94.0  | 80.9  | 69.5  | 59.3  | 49.4  | 42.1  | 6.6  |
| 32°   | 159.6 | 159.2 | 147.2 | 130.0 | 114.5 | 98.1  | 81.1  | 68.0  | 56.5  | 46.6  | 6.7  |
| 33°   | 204.5 | 204.7 | 185.9 | 165.6 | 140.1 | 118.2 | 95.9  | 77.9  | 64.2  | 52.0  | 6.9  |
| 34°   | 274.7 | 258.2 | 236.1 | 208.6 | 174.0 | 140.9 | 111.9 | 89.4  | 71.0  | 57.2  | 6.9  |
| 35°   | 347.5 | 330.9 | 306.6 | 265.0 | 217.4 | 171.1 | 131.1 | 101.8 | 79.3  | 62.8  | 6.9  |
| 36°   | 429.1 | 415.1 | 378.3 | 325.1 | 264.4 | 199.7 | 151.4 | 116.0 | 87.4  | 67.9  | 6.8  |
| 37°   | 517.3 | 496.6 | 455.8 | 397.8 | 316.7 | 239.8 | 176.1 | 130.2 | 95.5  | 73.4  | 6.6  |
| 38°   | 606.8 | 588.2 | 536.7 | 466.4 | 379.0 | 282.2 | 200.8 | 143.8 | 103.0 | 77.5  | 6.2  |
| 39°   | 674.6 | 664.5 | 613.4 | 534.9 | 428.8 | 322.4 | 226.3 | 158.4 | 111.0 | 81.6  | 5.9  |
| 40°   | 754.3 | 737.9 | 689.5 | 592.4 | 487.7 | 363.3 | 251.2 | 171.3 | 117.5 | 84.9  | 5.6  |
| 41°   | 827.0 | 806.3 | 745.2 | 651.4 | 534.8 | 400.0 | 274.9 | 184.6 | 122.8 | 86.8  | 5.4  |
| 42°   | 889.4 | 865.3 | 801.5 | 701.9 | 574.2 | 429.4 | 293.8 | 194.2 | 127.8 | 88.4  | 5.1  |
| 43°   | 929.8 | 909.0 | 846.2 | 739.8 | 607.9 | 456.4 | 311.5 | 204.1 | 130.8 | 89.4  | 4.7  |
| 44°   | 949.4 | 928.4 | 867.6 | 763.6 | 628.7 | 472.5 | 322.9 | 211.0 | 134.2 | 90.8  | 4.3  |
| 45°   | 943.1 | 921.7 | 863.0 | 764.0 | 635.1 | 478.4 | 327.8 | 214.0 | 136.0 | 92.1  | 3.9  |
| 46°   | 914.0 | 899.0 | 839.8 | 744.2 | 622.8 | 472.1 | 325.0 | 211.7 | 135.4 | 92.1  | 3.5  |
| 47°   | 873.2 | 856.1 | 799.8 | 710.0 | 593.1 | 456.1 | 313.9 | 204.6 | 131.5 | 89.9  | 3.1  |
| 48°   | 817.6 | 803.0 | 743.9 | 655.8 | 547.6 | 421.1 | 288.9 | 193.1 | 125.4 | 85.8  | 2.6  |
| 49°   | 747.9 | 727.6 | 672.5 | 586.5 | 488.2 | 371.4 | 256.0 | 173.7 | 115.5 | 80.0  | 2.3  |
| 50°   | 672.2 | 647.2 | 604.7 | 517.0 | 426.8 | 318.4 | 212.8 | 146.8 | 101.7 | 72.4  | 2.1  |
| 51°   | 598.1 | 572.6 | 532.2 | 457.6 | 361.3 | 264.2 | 171.6 | 117.2 | 83.7  | 61.9  | 1.8  |
| 52°   | 521.3 | 499.9 | 454.6 | 396.0 | 309.3 | 214.1 | 143.0 | 99.1  | 69.5  | 52.0  | 1.5  |
| 53°   | 444.8 | 430.2 | 387.0 | 327.8 | 248.5 | 174.9 | 116.8 | 84.9  | 60.7  | 44.5  | 1.2  |
| 54°   | 368.1 | 352.2 | 319.4 | 266.6 | 200.3 | 138.0 | 99.0  | 71.0  | 52.6  | 38.8  | 1.1  |
| 55°   | 287.9 | 279.7 | 249.4 | 203.2 | 151.8 | 110.1 | 80.3  | 61.1  | 44.1  | 32.4  | 0.8  |
| 56°   | 221.7 | 212.4 | 184.9 | 147.4 | 112.8 | 86.2  | 65.0  | 49.9  | 37.3  | 27.2  | 0.6  |
| 57°   | 145.2 | 135.7 | 117.4 | 102.9 | 82.1  | 62.9  | 49.7  | 39.3  | 30.3  | 22.5  | 0.5  |
| 58°   | 85.8  | 77.2  | 74.3  | 63.4  | 54.7  | 42.7  | 36.7  | 29.3  | 22.4  | 17.8  | 0.3  |
| 59°   | 39.4  | 40.1  | 35.6  | 33.4  | 30.3  | 27.2  | 22.3  | 19.6  | 15.3  | 12.8  | 0.2  |
| 60°   | 22.9  | 21.7  | 21.1  | 18.9  | 16.8  | 14.9  | 13.4  | 11.8  | 9.6   | 8.2   | 0.1  |
| 62.5° | 7.8   | 7.5   | 7.7   | 7.0   | 6.6   | 6.3   | 5.8   | 5.0   | 4.1   | 3.4   | 0.0  |
| 65°   | 2.1   | 2.1   | 2.0   | 1.9   | 1.8   | 1.7   | 1.6   | 1.4   | 1.3   | 1.1   | 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° | 0.7 | 0.7  | 0.6 | 0.6  | 0.5 | 0.5   | 0.4 | 0.4   | 0.3 | 0.3   | 0.0 |
| 70°   | 0.4 | 0.4  | 0.4 | 0.3  | 0.3 | 0.3   | 0.2 | 0.2   | 0.2 | 0.1   | 0.0 |
| 72.5° | 0.3 | 0.3  | 0.3 | 0.3  | 0.3 | 0.3   | 0.2 | 0.2   | 0.2 | 0.1   | 0.1 |
| 75°   | 0.3 | 0.3  | 0.3 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.1 |
| 77.5° | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 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 | 0.1   | 0.2 |
| 82.5° | 0.1 | 0.1  | 0.1 | 0.1  | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1   | 0.2 |
| 85°   | 0.1 | 0.1  | 0.1 | 0.1  | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.1 |
| 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: P3A02R159024DE010 E3A451WH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 9.4   | 9.4 | 9.4    | 9.4  | 9.4    | 9.4  |
| 2.5°  | 9.7   | 9.3 | 8.8    | 8.5  | 8.3    | 8.2  |
| 5°    | 9.3   | 8.5 | 7.8    | 7.4  | 7.3    | 7.3  |
| 7.5°  | 8.3   | 7.4 | 6.8    | 6.6  | 6.4    | 6.4  |
| 10°   | 7.3   | 6.4 | 5.9    | 5.7  | 5.8    | 5.8  |
| 12.5° | 6.1   | 5.4 | 5.2    | 5.2  | 5.3    | 5.4  |
| 15°   | 5.0   | 4.5 | 4.5    | 4.7  | 4.9    | 5.0  |
| 17.5° | 4.1   | 3.9 | 4.0    | 4.2  | 4.4    | 4.7  |
| 20°   | 3.4   | 3.4 | 3.6    | 3.9  | 4.2    | 4.4  |
| 22.5° | 2.9   | 3.0 | 3.3    | 3.6  | 4.0    | 4.2  |
| 25°   | 2.4   | 2.6 | 3.0    | 3.5  | 3.9    | 4.0  |
| 27.5° | 2.1   | 2.4 | 2.9    | 3.4  | 3.8    | 4.0  |
| 30°   | 1.8   | 2.2 | 2.7    | 3.3  | 3.8    | 4.0  |
| 31°   | 1.7   | 2.1 | 2.6    | 3.3  | 3.8    | 4.0  |
| 32°   | 1.6   | 2.1 | 2.6    | 3.3  | 3.8    | 4.0  |
| 33°   | 1.5   | 2.0 | 2.6    | 3.2  | 3.8    | 4.0  |
| 34°   | 1.4   | 2.0 | 2.6    | 3.3  | 3.8    | 4.0  |
| 35°   | 1.3   | 1.9 | 2.5    | 3.2  | 3.7    | 4.0  |
| 36°   | 1.2   | 1.9 | 2.5    | 3.2  | 3.8    | 4.0  |
| 37°   | 1.1   | 1.9 | 2.5    | 3.2  | 3.7    | 4.0  |
| 38°   | 1.1   | 1.8 | 2.4    | 3.2  | 3.7    | 4.0  |
| 39°   | 1.0   | 1.7 | 2.4    | 3.2  | 3.7    | 4.0  |
| 40°   | 0.8   | 1.7 | 2.3    | 3.1  | 3.7    | 4.0  |
| 41°   | 0.7   | 1.6 | 2.3    | 3.1  | 3.7    | 4.0  |
| 42°   | 0.6   | 1.6 | 2.3    | 3.1  | 3.7    | 4.0  |
| 43°   | 0.5   | 1.5 | 2.2    | 3.1  | 3.7    | 4.0  |
| 44°   | 0.5   | 1.5 | 2.2    | 3.1  | 3.7    | 4.0  |
| 45°   | 0.4   | 1.4 | 2.1    | 3.1  | 3.7    | 4.0  |
| 46°   | 0.4   | 1.4 | 2.1    | 3.0  | 3.7    | 4.0  |
| 47°   | 0.3   | 1.4 | 2.1    | 3.0  | 3.7    | 4.0  |
| 48°   | 0.3   | 1.3 | 2.1    | 3.0  | 3.7    | 4.0  |
| 49°   | 0.2   | 1.3 | 2.1    | 3.0  | 3.7    | 4.0  |
| 50°   | 0.2   | 1.3 | 2.0    | 3.0  | 3.7    | 4.0  |
| 51°   | 0.2   | 1.3 | 2.0    | 3.0  | 3.7    | 4.0  |
| 52°   | 0.2   | 1.2 | 2.0    | 3.0  | 3.7    | 4.0  |
| 53°   | 0.2   | 1.2 | 2.0    | 3.0  | 3.7    | 4.0  |
| 54°   | 0.2   | 1.2 | 1.9    | 3.0  | 3.7    | 4.0  |
| 55°   | 0.2   | 1.1 | 1.9    | 2.9  | 3.7    | 3.9  |
| 56°   | 0.2   | 1.1 | 1.9    | 2.9  | 3.7    | 3.9  |
| 57°   | 0.2   | 1.1 | 1.8    | 2.9  | 3.7    | 3.9  |
| 58°   | 0.2   | 1.0 | 1.8    | 2.7  | 3.6    | 3.9  |
| 59°   | 0.2   | 1.0 | 1.7    | 2.7  | 3.6    | 3.8  |
| 60°   | 0.2   | 0.8 | 1.7    | 2.6  | 3.5    | 3.8  |
| 62.5° | 0.2   | 0.7 | 1.5    | 2.5  | 3.4    | 3.6  |
| 65°   | 0.2   | 0.6 | 1.4    | 2.3  | 3.3    | 3.5  |



TEST NUMBER: P1333977

CATALOG NUMBER: P3A02R159024DE010 E3A451WH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.2   | 0.6 | 1.3    | 2.2  | 3.1    | 3.4  |
| 70°   | 0.2   | 0.6 | 1.2    | 2.0  | 3.0    | 3.1  |
| 72.5° | 0.3   | 0.6 | 1.1    | 1.9  | 2.7    | 2.9  |
| 75°   | 0.4   | 0.6 | 1.0    | 1.7  | 2.5    | 2.6  |
| 77.5° | 0.4   | 0.6 | 0.8    | 1.5  | 2.2    | 2.3  |
| 80°   | 0.4   | 0.5 | 0.7    | 1.2  | 1.8    | 1.9  |
| 82.5° | 0.4   | 0.5 | 0.5    | 1.0  | 1.4    | 1.5  |
| 85°   | 0.3   | 0.4 | 0.4    | 0.5  | 1.0    | 1.1  |
| 87.5° | 0.3   | 0.4 | 0.2    | 0.3  | 0.4    | 0.4  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)