

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: P1334395

Luminaire Tested: P3A02R209727DE010 E3A301LI

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334395  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A02R209727DE010 E3A301LI  
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3A301LI TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

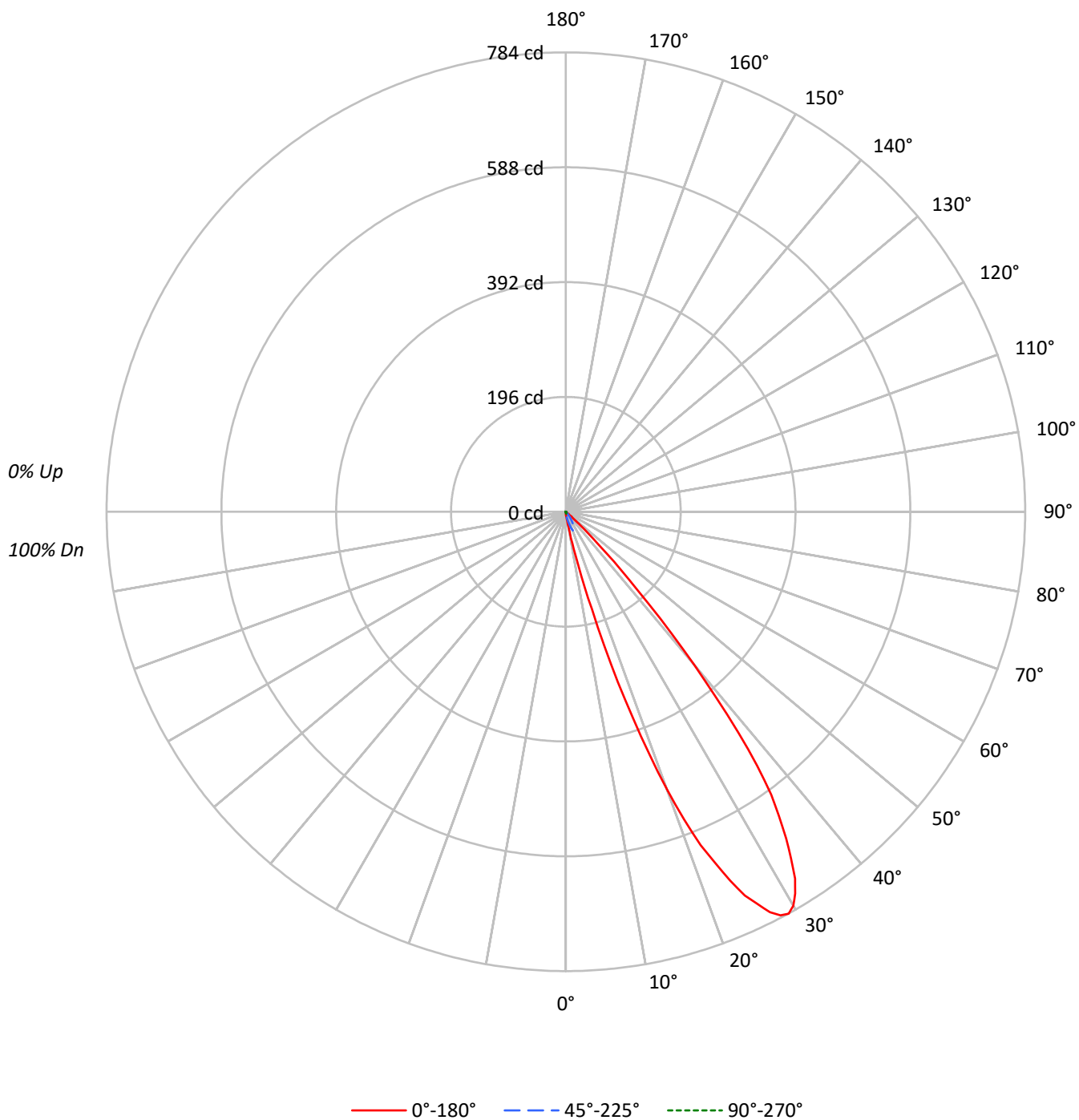
Lumens per Lamp: N/A  
Luminaire Lumens: 110.0 lumens  
Efficiency: N/A  
Efficacy: 30.6 lumens/watt  
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1334395

CATALOG NUMBER: P3A02R209727DE010 E3A301LI

### Luminous Intensity Polar Plot



TEST NUMBER: P1334395

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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  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 92  |    |    |
| 2   | 106 | 100 | 96  | 92  | 104 | 99  | 94  | 91  | 95  | 92  | 89  | 92  | 89  | 87  | 89  | 87  | 85  | 83  |    |    |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 75  |    |    |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 76  | 71  | 79  | 74  | 71  | 77  | 73  | 70  | 68  |    |    |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 72  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 62  | 58  | 65  | 61  | 57  | 55  |    |    |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 62  | 56  | 52  | 60  | 55  | 52  | 50  |    |    |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |    |    |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 43  | 41  |    |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 42  | 39  | 37  |    |    |

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

|     | 0°     | 45°  | 90° | 135° | 180° |
|-----|--------|------|-----|------|------|
| 0°  | 833    | 833  | 833 | 833  | 833  |
| 5°  | 1915   | 1431 | 792 | 484  | 418  |
| 10° | 6012   | 2494 | 646 | 267  | 200  |
| 15° | 39001  | 4608 | 477 | 91   | 23   |
| 20° | 117750 | 7864 | 327 | 0    | 0    |
| 25° | 174857 | 7936 | 194 | 0    | 0    |
| 30° | 196638 | 6052 | 76  | 0    | 0    |
| 35° | 169663 | 3614 | 54  | 0    | 0    |
| 40° | 97697  | 1231 | 0   | 0    | 0    |
| 45° | 23816  | 496  | 31  | 0    | 31   |
| 50° | 2866   | 136  | 34  | 34   | 102  |
| 55° | 382    | 0    | 76  | 76   | 153  |
| 60° | 44     | 0    | 132 | 132  | 219  |
| 65° | 52     | 52   | 208 | 208  | 311  |
| 70° | 64     | 64   | 256 | 256  | 321  |
| 75° | 0      | 85   | 339 | 254  | 339  |
| 80° | 0      | 126  | 379 | 253  | 379  |
| 85° | 0      | 252  | 755 | 252  | 252  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 23971 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.5    | 0.5       |
| 10°-20°   | 10.2   | 9.3       |
| 20°-30°   | 44.4   | 40.4      |
| 30°-40°   | 44.7   | 40.7      |
| 40°-50°   | 9.0    | 8.2       |
| 50°-60°   | 0.5    | 0.4       |
| 60°-70°   | 0.3    | 0.3       |
| 70°-80°   | 0.3    | 0.2       |
| 80°-90°   | 0.1    | 0.1       |
| 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°    | 55.1   | 50.1      |
| 0°-40°    | 99.9   | 90.8      |
| 0°-60°    | 109.3  | 99.4      |
| 0°-90°    | 110.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 110.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 4   | 4   | 4   | 4    | 4    |      |
| 5°  | 9   | 6   | 4   | 2    | 2    | 1    |
| 15° | 172 | 20  | 2   | 0    | 0    | 67   |
| 25° | 723 | 33  | 1   | 0    | 0    | 326  |
| 35° | 634 | 14  | 0   | 0    | 0    | 377  |
| 45° | 77  | 2   | 0   | 0    | 0    | 84   |
| 55° | 1   | 0   | 0   | 0    | 0    | 2    |
| 65° | 0   | 0   | 0   | 0    | 1    | 0    |
| 75° | 0   | 0   | 0   | 0    | 0    | 0    |
| 85° | 0   | 0   | 0   | 0    | 0    | 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°    | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8  |
| 2.5°  | 5.7   | 5.7   | 5.6   | 5.6   | 5.5   | 5.6   | 5.4   | 5.5   | 5.5   | 5.4   | 4.9  |
| 5°    | 8.7   | 8.9   | 8.8   | 8.8   | 8.7   | 8.8   | 8.6   | 8.4   | 8.2   | 8.2   | 6.5  |
| 7.5°  | 14.3  | 14.2  | 14.0  | 14.1  | 13.8  | 13.6  | 13.4  | 13.3  | 12.7  | 12.4  | 8.5  |
| 10°   | 27.0  | 27.6  | 27.1  | 27.0  | 25.2  | 25.1  | 24.0  | 22.3  | 20.8  | 20.0  | 11.2 |
| 12.5° | 74.4  | 77.6  | 72.7  | 70.3  | 68.9  | 63.5  | 61.2  | 55.3  | 49.6  | 45.3  | 14.2 |
| 15°   | 171.8 | 179.7 | 169.7 | 170.4 | 162.0 | 146.6 | 133.1 | 121.6 | 107.9 | 94.1  | 20.3 |
| 17.5° | 336.7 | 330.3 | 324.8 | 315.6 | 298.5 | 275.9 | 246.9 | 217.5 | 192.0 | 165.4 | 28.2 |
| 20°   | 504.6 | 498.9 | 486.4 | 466.1 | 444.4 | 411.0 | 376.4 | 332.2 | 289.4 | 249.3 | 33.7 |
| 21°   | 562.4 | 560.5 | 540.0 | 527.5 | 494.0 | 462.1 | 422.2 | 374.9 | 326.7 | 279.2 | 34.6 |
| 22°   | 613.9 | 602.6 | 591.6 | 573.1 | 539.8 | 505.1 | 460.8 | 411.0 | 358.7 | 305.9 | 34.7 |
| 23°   | 649.7 | 644.5 | 634.1 | 613.2 | 580.1 | 539.3 | 492.6 | 440.5 | 385.4 | 324.7 | 34.4 |
| 24°   | 689.2 | 682.6 | 667.4 | 643.1 | 609.7 | 569.3 | 516.0 | 464.4 | 404.5 | 340.6 | 33.6 |
| 25°   | 722.7 | 712.4 | 694.5 | 668.2 | 631.7 | 590.1 | 536.5 | 479.7 | 417.7 | 351.3 | 32.8 |
| 26°   | 744.5 | 738.9 | 715.8 | 687.3 | 648.2 | 605.3 | 550.6 | 491.5 | 426.3 | 356.2 | 31.5 |
| 27°   | 767.1 | 756.9 | 734.2 | 701.4 | 659.0 | 615.1 | 558.6 | 497.2 | 429.3 | 356.4 | 29.9 |
| 28°   | 780.1 | 768.9 | 743.3 | 708.8 | 665.9 | 620.6 | 563.1 | 499.0 | 428.7 | 353.3 | 28.0 |
| 29°   | 784.2 | 770.1 | 745.1 | 709.9 | 667.6 | 621.0 | 562.5 | 496.4 | 423.4 | 345.7 | 25.8 |
| 30°   | 776.6 | 762.2 | 738.5 | 704.3 | 662.2 | 616.0 | 556.0 | 487.8 | 414.1 | 334.8 | 23.9 |
| 31°   | 760.0 | 747.9 | 724.9 | 690.6 | 650.3 | 604.4 | 541.3 | 473.7 | 398.1 | 320.2 | 21.6 |
| 32°   | 738.2 | 726.2 | 703.7 | 672.6 | 631.6 | 585.3 | 521.2 | 451.8 | 379.3 | 298.5 | 19.3 |
| 33°   | 705.4 | 698.5 | 678.2 | 648.6 | 607.6 | 558.1 | 494.3 | 425.5 | 352.6 | 274.3 | 17.3 |
| 34°   | 672.1 | 663.4 | 649.3 | 616.8 | 572.7 | 523.3 | 459.2 | 389.3 | 319.9 | 247.3 | 15.4 |
| 35°   | 633.8 | 628.6 | 606.4 | 580.4 | 536.1 | 485.6 | 421.8 | 354.1 | 281.9 | 217.2 | 13.5 |
| 36°   | 596.7 | 588.7 | 563.3 | 535.9 | 492.9 | 438.3 | 375.3 | 311.7 | 249.1 | 188.9 | 11.5 |
| 37°   | 542.8 | 530.6 | 512.6 | 483.6 | 433.3 | 386.8 | 329.3 | 270.2 | 208.7 | 158.4 | 9.3  |
| 38°   | 479.4 | 473.7 | 448.7 | 419.5 | 377.9 | 333.8 | 276.9 | 226.8 | 172.1 | 132.2 | 7.1  |
| 39°   | 404.7 | 404.6 | 380.6 | 359.6 | 318.8 | 279.1 | 227.8 | 184.1 | 142.1 | 106.5 | 5.5  |
| 40°   | 341.3 | 329.5 | 314.8 | 288.3 | 257.1 | 223.3 | 178.4 | 144.1 | 110.3 | 85.8  | 4.3  |
| 42.5° | 178.9 | 177.9 | 169.3 | 149.4 | 131.9 | 112.1 | 89.1  | 74.2  | 58.1  | 47.3  | 2.7  |
| 45°   | 76.8  | 77.3  | 71.4  | 68.4  | 61.6  | 53.3  | 45.0  | 37.5  | 32.1  | 26.0  | 1.6  |
| 47.5° | 19.5  | 18.7  | 18.5  | 19.2  | 19.2  | 18.6  | 16.7  | 15.7  | 14.5  | 13.3  | 0.9  |
| 50°   | 8.4   | 8.2   | 8.0   | 8.0   | 7.5   | 7.2   | 6.7   | 6.1   | 5.6   | 5.0   | 0.4  |
| 52.5° | 3.1   | 3.2   | 3.3   | 3.2   | 3.2   | 3.1   | 3.1   | 3.0   | 2.7   | 2.4   | 0.2  |
| 55°   | 1.0   | 1.0   | 1.0   | 1.1   | 1.1   | 1.2   | 1.2   | 1.2   | 1.2   | 1.1   | 0.0  |
| 57.5° | 0.2   | 0.2   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.4   | 0.4   | 0.0  |
| 60°   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.0   | 0.0   | 0.0   | 0.0  |
| 62.5° | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  |
| 65°   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  |
| 67.5° | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  |
| 70°   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  |
| 72.5° | 0.1   | 0.0   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  |
| 75°   | 0.0   | 0.0   | 0.0   | 0.1   | 0.0   | 0.1   | 0.1   | 0.0   | 0.1   | 0.1   | 0.1  |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 0.1  |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 82.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.1 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 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 |

TEST NUMBER: P1334395

CATALOG NUMBER: P3A02R209727DE010 E3A301LI

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 3.8   | 3.8 | 3.8    | 3.8  | 3.8    | 3.8  |
| 2.5°  | 4.4   | 3.9 | 3.3    | 2.8  | 2.7    | 2.6  |
| 5°    | 4.9   | 3.6 | 2.7    | 2.2  | 2.0    | 1.9  |
| 7.5°  | 5.3   | 3.3 | 2.2    | 1.6  | 1.4    | 1.3  |
| 10°   | 5.5   | 2.9 | 1.8    | 1.2  | 0.9    | 0.9  |
| 12.5° | 5.6   | 2.5 | 1.3    | 0.8  | 0.5    | 0.5  |
| 15°   | 5.5   | 2.1 | 1.0    | 0.4  | 0.1    | 0.1  |
| 17.5° | 5.0   | 1.7 | 0.6    | 0.1  | 0.0    | 0.0  |
| 20°   | 4.3   | 1.4 | 0.4    | 0.0  | 0.0    | 0.0  |
| 21°   | 4.1   | 1.2 | 0.3    | 0.0  | 0.0    | 0.0  |
| 22°   | 3.8   | 1.1 | 0.2    | 0.0  | 0.0    | 0.0  |
| 23°   | 3.5   | 1.0 | 0.2    | 0.0  | 0.0    | 0.0  |
| 24°   | 3.2   | 0.9 | 0.1    | 0.0  | 0.0    | 0.0  |
| 25°   | 3.0   | 0.8 | 0.1    | 0.0  | 0.0    | 0.0  |
| 26°   | 2.8   | 0.7 | 0.1    | 0.0  | 0.0    | 0.0  |
| 27°   | 2.5   | 0.6 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 2.3   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 2.0   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 1.7   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 1.4   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 1.2   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 1.0   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 0.9   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 0.8   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 0.6   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 37°   | 0.5   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 38°   | 0.4   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 39°   | 0.3   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 0.3   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 42.5° | 0.1   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 45°   | 0.0   | 0.1 | 0.0    | 0.0  | 0.1    | 0.1  |
| 47.5° | 0.0   | 0.1 | 0.0    | 0.0  | 0.1    | 0.2  |
| 50°   | 0.0   | 0.1 | 0.1    | 0.1  | 0.2    | 0.3  |
| 52.5° | 0.0   | 0.2 | 0.1    | 0.1  | 0.3    | 0.3  |
| 55°   | 0.1   | 0.2 | 0.1    | 0.2  | 0.4    | 0.4  |
| 57.5° | 0.1   | 0.2 | 0.2    | 0.3  | 0.4    | 0.5  |
| 60°   | 0.2   | 0.3 | 0.3    | 0.3  | 0.5    | 0.5  |
| 62.5° | 0.2   | 0.3 | 0.4    | 0.4  | 0.5    | 0.6  |
| 65°   | 0.2   | 0.4 | 0.4    | 0.4  | 0.5    | 0.6  |
| 67.5° | 0.3   | 0.4 | 0.4    | 0.4  | 0.5    | 0.6  |
| 70°   | 0.3   | 0.4 | 0.4    | 0.4  | 0.5    | 0.5  |
| 72.5° | 0.3   | 0.4 | 0.3    | 0.4  | 0.4    | 0.5  |
| 75°   | 0.3   | 0.4 | 0.3    | 0.3  | 0.4    | 0.4  |
| 77.5° | 0.2   | 0.3 | 0.3    | 0.2  | 0.3    | 0.3  |
| 80°   | 0.2   | 0.3 | 0.2    | 0.2  | 0.3    | 0.3  |





TEST NUMBER: P1334395

CATALOG NUMBER: P3A02R209727DE010 E3A301LI

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.2   | 0.3 | 0.2    | 0.1  | 0.2    | 0.2  |
| 85°   | 0.2   | 0.3 | 0.2    | 0.1  | 0.1    | 0.1  |
| 87.5° | 0.2   | 0.3 | 0.2    | 0.1  | 0.0    | 0.1  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)