

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: P1334169

Luminaire Tested: P3A02R159835DE010 E3A301WH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334169  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A02R159835DE010 E3A301WH  
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , E3A301WH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

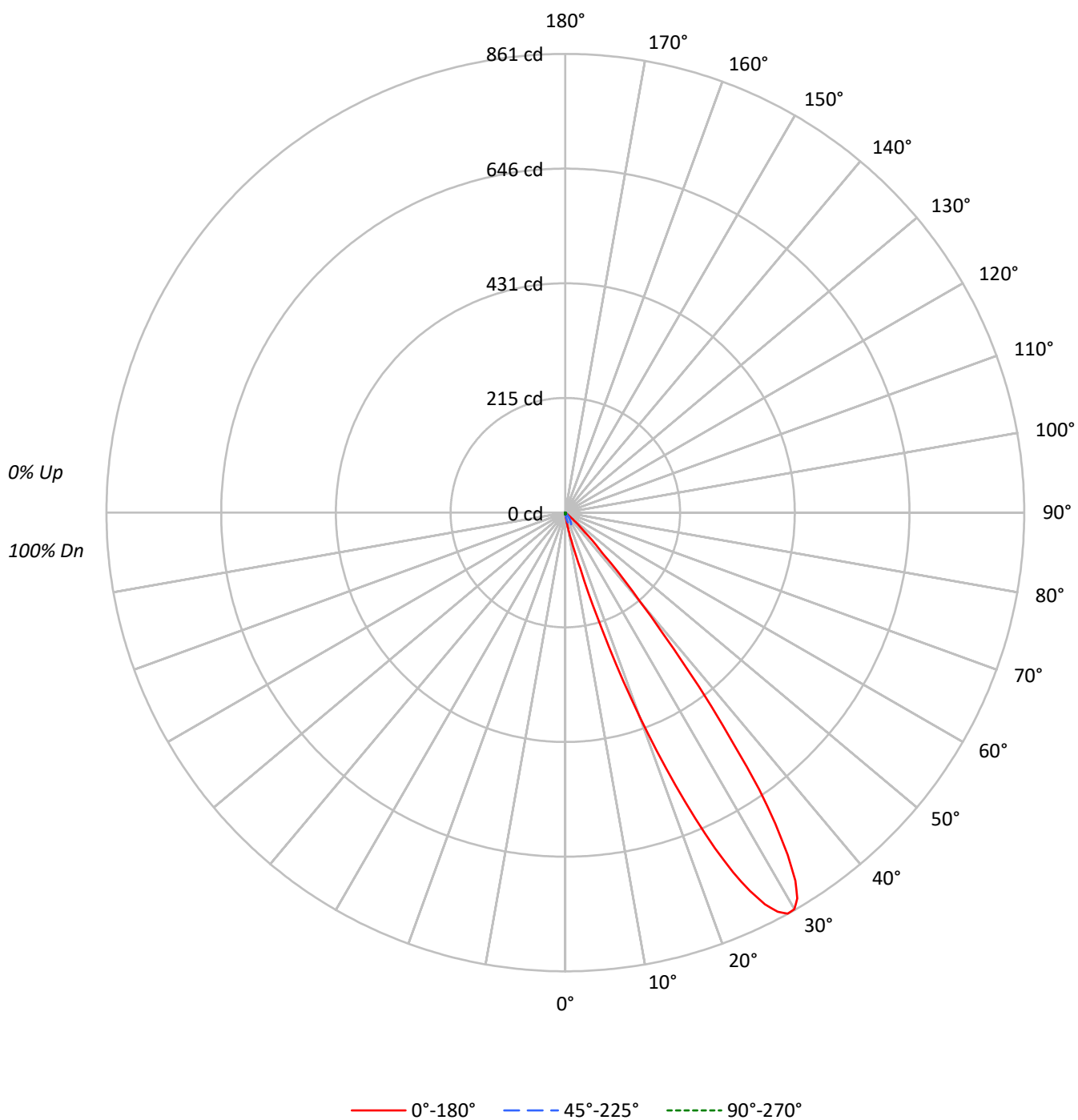
Lumens per Lamp: N/A  
Luminaire Lumens: 94.1 lumens  
Efficiency: N/A  
Efficacy: 26.1 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1334169

CATALOG NUMBER: P3A02R159835DE010 E3A301WH

### Luminous Intensity Polar Plot



TEST NUMBER: P1334169

CATALOG NUMBER: P3A02R159835DE010 E3A301WH

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

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

|     | 0°     | 45°  | 90° | 135° | 180° |
|-----|--------|------|-----|------|------|
| 0°  | 680    | 680  | 680 | 680  | 680  |
| 5°  | 1475   | 1079 | 638 | 352  | 286  |
| 10° | 6524   | 2049 | 512 | 134  | 111  |
| 15° | 24631  | 4745 | 363 | 68   | 45   |
| 20° | 94765  | 6697 | 210 | 23   | 23   |
| 25° | 180204 | 6291 | 121 | 0    | 0    |
| 30° | 217679 | 5064 | 51  | 0    | 0    |
| 35° | 169770 | 3453 | 27  | 0    | 0    |
| 40° | 61945  | 1689 | 29  | 0    | 29   |
| 45° | 15909  | 496  | 31  | 0    | 62   |
| 50° | 2695   | 68   | 34  | 34   | 102  |
| 55° | 344    | 0    | 76  | 115  | 191  |
| 60° | 44     | 44   | 132 | 175  | 219  |
| 65° | 52     | 52   | 208 | 259  | 259  |
| 70° | 64     | 64   | 256 | 256  | 321  |
| 75° | 85     | 85   | 339 | 254  | 339  |
| 80° | 0      | 126  | 379 | 253  | 379  |
| 85° | 0      | 252  | 755 | 252  | 252  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15909 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.4    | 0.5       |
| 10°-20°   | 7.2    | 7.7       |
| 20°-30°   | 40.0   | 42.5      |
| 30°-40°   | 38.6   | 41.0      |
| 40°-50°   | 6.7    | 7.1       |
| 50°-60°   | 0.5    | 0.5       |
| 60°-70°   | 0.3    | 0.3       |
| 70°-80°   | 0.3    | 0.3       |
| 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°    | 47.6   | 50.6      |
| 0°-40°    | 86.2   | 91.6      |
| 0°-60°    | 93.4   | 99.3      |
| 0°-90°    | 94.1   | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 94.1   | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 3   | 3   | 3   | 3    | 3    |      |
| 5°  | 7   | 5   | 3   | 2    | 1    | 1    |
| 15° | 108 | 21  | 2   | 0    | 0    | 48   |
| 25° | 745 | 26  | 0   | 0    | 0    | 333  |
| 35° | 634 | 13  | 0   | 0    | 0    | 365  |
| 45° | 51  | 2   | 0   | 0    | 0    | 55   |
| 55° | 1   | 0   | 0   | 0    | 0    | 2    |
| 65° | 0   | 0   | 0   | 0    | 0    | 0    |
| 75° | 0   | 0   | 0   | 0    | 0    | 0    |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1334169

CATALOG NUMBER: P3A02R159835DE010 E3A301WH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 2.5°  | 5°    | 7.5°  | 10°   | 12.5° | 15°   | 17.5° | 20°   | 22.5° | 45°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 0°    | 3.1   | 3.1   | 3.1   | 3.1   | 3.1   | 3.1   | 3.1   | 3.1   | 3.1   | 3.1   | 3.1  |
| 2.5°  | 4.6   | 4.4   | 4.5   | 4.5   | 4.5   | 4.5   | 4.5   | 4.3   | 4.3   | 4.4   | 3.9  |
| 5°    | 6.7   | 6.7   | 6.6   | 6.7   | 6.7   | 6.6   | 6.4   | 6.3   | 6.3   | 6.1   | 4.9  |
| 7.5°  | 13.4  | 13.2  | 13.2  | 13.0  | 12.1  | 11.8  | 11.6  | 11.2  | 10.3  | 10.1  | 6.4  |
| 10°   | 29.3  | 29.4  | 28.7  | 27.9  | 27.8  | 26.4  | 26.0  | 25.1  | 23.6  | 22.0  | 9.2  |
| 12.5° | 53.1  | 51.9  | 50.4  | 50.5  | 47.8  | 46.9  | 44.8  | 42.5  | 40.1  | 37.7  | 15.2 |
| 15°   | 108.5 | 105.2 | 107.2 | 102.2 | 96.7  | 90.3  | 83.9  | 75.9  | 69.0  | 61.7  | 20.9 |
| 17.5° | 228.6 | 231.9 | 226.3 | 205.2 | 192.2 | 176.9 | 155.4 | 134.7 | 116.9 | 102.7 | 25.6 |
| 20°   | 406.1 | 410.9 | 392.0 | 373.6 | 342.1 | 307.7 | 271.8 | 231.2 | 192.4 | 158.7 | 28.7 |
| 21°   | 480.2 | 477.3 | 469.5 | 440.1 | 403.7 | 363.8 | 319.9 | 275.1 | 228.0 | 184.3 | 29.0 |
| 22°   | 551.9 | 553.3 | 535.2 | 504.4 | 466.5 | 422.4 | 368.8 | 313.5 | 262.7 | 205.2 | 28.5 |
| 23°   | 623.3 | 627.7 | 603.8 | 574.9 | 527.2 | 477.4 | 415.4 | 355.7 | 293.0 | 229.1 | 27.6 |
| 24°   | 689.4 | 686.4 | 670.2 | 633.9 | 582.9 | 524.6 | 460.2 | 387.8 | 317.8 | 249.4 | 26.9 |
| 25°   | 744.8 | 744.4 | 719.0 | 683.6 | 625.3 | 560.7 | 489.7 | 414.0 | 339.1 | 263.3 | 26.0 |
| 26°   | 790.0 | 782.6 | 762.6 | 719.4 | 661.9 | 593.7 | 514.0 | 433.1 | 351.1 | 270.2 | 25.1 |
| 27°   | 825.0 | 819.7 | 792.8 | 747.9 | 687.8 | 612.4 | 529.5 | 442.7 | 356.6 | 272.5 | 23.9 |
| 28°   | 848.5 | 842.7 | 814.1 | 767.8 | 702.1 | 624.1 | 537.7 | 446.7 | 356.6 | 270.3 | 22.8 |
| 29°   | 860.6 | 852.8 | 824.2 | 774.7 | 705.4 | 625.4 | 535.7 | 442.7 | 351.0 | 263.5 | 21.5 |
| 30°   | 859.7 | 849.9 | 820.0 | 768.4 | 695.6 | 614.2 | 524.5 | 428.6 | 338.4 | 253.5 | 20.0 |
| 31°   | 844.9 | 833.9 | 800.5 | 747.4 | 675.4 | 593.0 | 503.3 | 409.6 | 321.1 | 240.4 | 18.6 |
| 32°   | 814.8 | 800.9 | 768.4 | 715.4 | 644.3 | 561.2 | 472.5 | 380.2 | 295.3 | 221.3 | 17.0 |
| 33°   | 765.8 | 751.8 | 716.9 | 667.2 | 602.2 | 521.0 | 431.6 | 348.7 | 265.8 | 198.5 | 15.7 |
| 34°   | 704.4 | 691.6 | 661.6 | 611.5 | 549.2 | 470.1 | 384.6 | 305.0 | 235.3 | 175.9 | 14.4 |
| 35°   | 634.2 | 613.8 | 586.6 | 547.0 | 486.2 | 406.6 | 333.8 | 264.4 | 203.8 | 152.2 | 12.9 |
| 36°   | 539.2 | 542.9 | 514.0 | 465.5 | 415.1 | 352.8 | 282.9 | 220.5 | 170.4 | 129.8 | 11.6 |
| 37°   | 455.0 | 449.2 | 430.9 | 393.4 | 349.5 | 287.6 | 237.1 | 186.9 | 143.4 | 109.7 | 10.2 |
| 38°   | 367.0 | 368.3 | 350.3 | 321.5 | 278.0 | 236.5 | 190.8 | 153.5 | 120.0 | 93.4  | 9.0  |
| 39°   | 287.3 | 286.3 | 281.4 | 254.7 | 215.3 | 188.1 | 154.6 | 127.3 | 99.9  | 78.7  | 7.6  |
| 40°   | 216.4 | 218.1 | 206.7 | 190.6 | 167.7 | 145.3 | 123.2 | 101.5 | 82.7  | 66.4  | 5.9  |
| 42.5° | 105.2 | 107.8 | 100.3 | 96.2  | 86.0  | 77.3  | 65.2  | 53.2  | 45.3  | 39.1  | 2.7  |
| 45°   | 51.3  | 49.8  | 49.2  | 47.2  | 44.8  | 40.1  | 35.5  | 30.4  | 26.6  | 23.0  | 1.6  |
| 47.5° | 26.2  | 25.5  | 25.5  | 24.7  | 23.9  | 22.3  | 20.0  | 18.4  | 16.6  | 14.3  | 0.6  |
| 50°   | 7.9   | 7.8   | 7.7   | 7.8   | 7.5   | 7.8   | 8.0   | 8.0   | 7.3   | 7.2   | 0.2  |
| 52.5° | 3.1   | 3.2   | 3.1   | 3.4   | 3.4   | 3.3   | 3.4   | 3.3   | 3.2   | 2.8   | 0.0  |
| 55°   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 1.0   | 1.1   | 1.0   | 1.1   | 0.0  |
| 57.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.0  |
| 60°   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.0   | 0.1  |
| 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   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  |
| 75°   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1  |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 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: P1334169

CATALOG NUMBER: P3A02R159835DE010 E3A301WH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 3.1   | 3.1 | 3.1    | 3.1  | 3.1    | 3.1  |
| 2.5°  | 3.7   | 3.2 | 2.7    | 2.2  | 2.0    | 1.9  |
| 5°    | 3.9   | 2.9 | 2.0    | 1.6  | 1.4    | 1.3  |
| 7.5°  | 4.2   | 2.7 | 1.6    | 1.1  | 0.8    | 0.7  |
| 10°   | 4.4   | 2.3 | 1.2    | 0.6  | 0.5    | 0.5  |
| 12.5° | 4.4   | 1.8 | 0.8    | 0.4  | 0.3    | 0.3  |
| 15°   | 4.3   | 1.6 | 0.5    | 0.3  | 0.2    | 0.2  |
| 17.5° | 4.2   | 1.2 | 0.4    | 0.2  | 0.1    | 0.2  |
| 20°   | 3.9   | 0.9 | 0.2    | 0.1  | 0.1    | 0.1  |
| 21°   | 3.8   | 0.8 | 0.2    | 0.1  | 0.1    | 0.1  |
| 22°   | 3.7   | 0.7 | 0.1    | 0.0  | 0.1    | 0.1  |
| 23°   | 3.5   | 0.5 | 0.1    | 0.0  | 0.0    | 0.0  |
| 24°   | 3.2   | 0.5 | 0.1    | 0.0  | 0.0    | 0.0  |
| 25°   | 3.0   | 0.5 | 0.1    | 0.0  | 0.0    | 0.0  |
| 26°   | 2.8   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 27°   | 2.6   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 2.4   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 2.1   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 1.8   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 1.5   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 1.2   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 0.8   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 0.5   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 0.5   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 0.3   | 0.1 | 0.0    | 0.0  | 0.0    | 0.1  |
| 37°   | 0.3   | 0.1 | 0.0    | 0.0  | 0.0    | 0.1  |
| 38°   | 0.2   | 0.1 | 0.0    | 0.0  | 0.0    | 0.1  |
| 39°   | 0.1   | 0.1 | 0.0    | 0.0  | 0.0    | 0.1  |
| 40°   | 0.1   | 0.1 | 0.0    | 0.0  | 0.0    | 0.1  |
| 42.5° | 0.0   | 0.1 | 0.0    | 0.0  | 0.1    | 0.2  |
| 45°   | 0.0   | 0.1 | 0.0    | 0.0  | 0.1    | 0.2  |
| 47.5° | 0.0   | 0.1 | 0.0    | 0.0  | 0.2    | 0.2  |
| 50°   | 0.0   | 0.1 | 0.1    | 0.1  | 0.2    | 0.3  |
| 52.5° | 0.0   | 0.2 | 0.1    | 0.2  | 0.3    | 0.4  |
| 55°   | 0.1   | 0.2 | 0.2    | 0.3  | 0.4    | 0.5  |
| 57.5° | 0.1   | 0.3 | 0.3    | 0.4  | 0.5    | 0.5  |
| 60°   | 0.2   | 0.3 | 0.4    | 0.4  | 0.5    | 0.5  |
| 62.5° | 0.2   | 0.4 | 0.4    | 0.4  | 0.5    | 0.5  |
| 65°   | 0.2   | 0.4 | 0.4    | 0.5  | 0.5    | 0.5  |
| 67.5° | 0.2   | 0.4 | 0.4    | 0.4  | 0.5    | 0.5  |
| 70°   | 0.2   | 0.4 | 0.3    | 0.4  | 0.5    | 0.5  |
| 72.5° | 0.2   | 0.4 | 0.3    | 0.3  | 0.4    | 0.5  |
| 75°   | 0.2   | 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: P1334169

CATALOG NUMBER: P3A02R159835DE010 E3A301WH

**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 | 0.1    | 0.0  | 0.0    | 0.1  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)