

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: P1334182

Luminaire Tested: P3A02R159840DE010 E3A301H

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334182  
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: P3A02R159840DE010 E3A301H  
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , E3A301H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

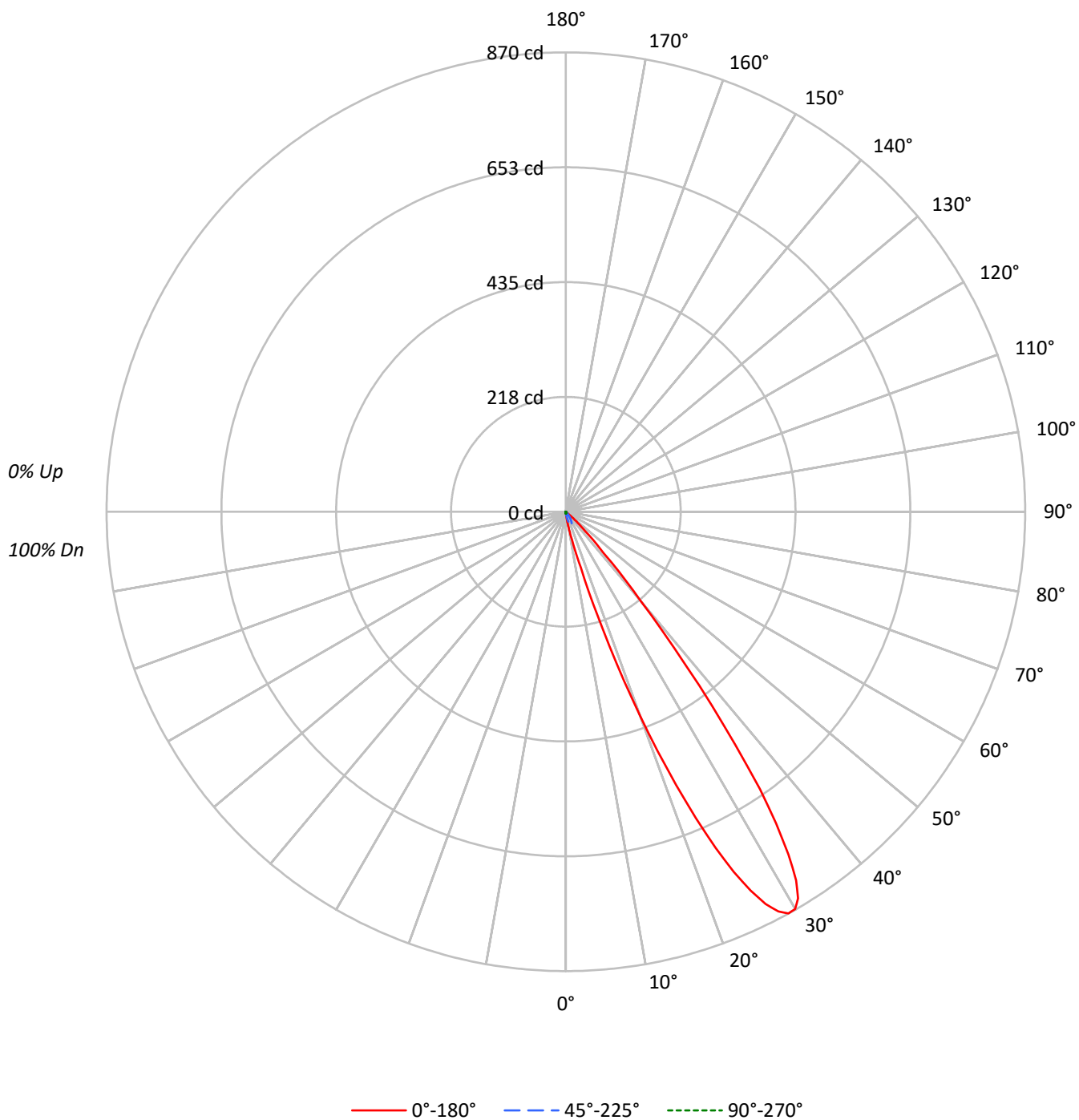
Lumens per Lamp: N/A  
Luminaire Lumens: 95.1 lumens  
Efficiency: N/A  
Efficacy: 26.4 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1334182

CATALOG NUMBER: P3A02R159840DE010 E3A301H

### 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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| 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 | 98  | 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  | 75  | 71  |  | 79  | 74  | 70  |  | 77  | 73  | 70  | 68  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  |  | 72  | 67  | 64  |  | 71  | 66  | 63  | 61  |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  |  | 67  | 61  | 57  |  | 65  | 61  | 57  | 55  |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  |  | 61  | 56  | 52  |  | 60  | 55  | 52  | 50  |
| 8   | 71  | 60  | 52  | 48  | 70  | 59  | 52  | 47  | 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  | 42  | 41  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  |  | 48  | 43  | 39  |  | 47  | 42  | 39  | 37  |

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

|     | 0°     | 45°  | 90° | 135° | 180° |
|-----|--------|------|-----|------|------|
| 0°  | 680    | 680  | 680 | 680  | 680  |
| 5°  | 1475   | 1101 | 660 | 352  | 286  |
| 10° | 6591   | 2071 | 512 | 134  | 111  |
| 15° | 24904  | 4813 | 363 | 68   | 45   |
| 20° | 95768  | 6767 | 210 | 23   | 23   |
| 25° | 182115 | 6339 | 121 | 0    | 0    |
| 30° | 219983 | 5115 | 51  | 0    | 0    |
| 35° | 171591 | 3480 | 27  | 0    | 0    |
| 40° | 62603  | 1718 | 29  | 0    | 29   |
| 45° | 16064  | 527  | 31  | 0    | 62   |
| 50° | 2695   | 68   | 34  | 34   | 102  |
| 55° | 344    | 0    | 76  | 115  | 191  |
| 60° | 44     | 44   | 132 | 175  | 263  |
| 65° | 52     | 52   | 208 | 259  | 311  |
| 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: 16064 cd/sqm

TEST NUMBER: P1334182

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.4    | 0.5       |
| 10°-20°   | 7.3    | 7.7       |
| 20°-30°   | 40.4   | 42.5      |
| 30°-40°   | 39.0   | 41.0      |
| 40°-50°   | 6.8    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 48.1   | 50.6      |
| 0°-40°    | 87.1   | 91.6      |
| 0°-60°    | 94.4   | 99.3      |
| 0°-90°    | 95.1   | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 95.1   | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 3   | 3   | 3   | 3    | 3    |      |
| 5°  | 7   | 5   | 3   | 2    | 1    | 1    |
| 15° | 110 | 21  | 2   | 0    | 0    | 49   |
| 25° | 753 | 26  | 0   | 0    | 0    | 337  |
| 35° | 641 | 13  | 0   | 0    | 0    | 369  |
| 45° | 52  | 2   | 0   | 0    | 0    | 56   |
| 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°    | 3.1   | 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   | 4.0  |
| 5°    | 6.7   | 6.7   | 6.7   | 6.7   | 6.7   | 6.7   | 6.5   | 6.4   | 6.4   | 6.2   | 5.0  |
| 7.5°  | 13.5  | 13.3  | 13.3  | 13.1  | 12.2  | 11.9  | 11.7  | 11.3  | 10.4  | 10.3  | 6.5  |
| 10°   | 29.6  | 29.7  | 29.0  | 28.2  | 28.1  | 26.7  | 26.2  | 25.4  | 23.8  | 22.3  | 9.3  |
| 12.5° | 53.7  | 52.5  | 50.9  | 51.0  | 48.3  | 47.4  | 45.3  | 43.0  | 40.6  | 38.1  | 15.3 |
| 15°   | 109.7 | 106.3 | 108.3 | 103.3 | 97.7  | 91.3  | 84.8  | 76.7  | 69.8  | 62.4  | 21.2 |
| 17.5° | 231.0 | 234.4 | 228.7 | 207.4 | 194.2 | 178.8 | 157.1 | 136.1 | 118.2 | 103.8 | 25.9 |
| 20°   | 410.4 | 415.3 | 396.2 | 377.6 | 345.7 | 311.0 | 274.7 | 233.7 | 194.4 | 160.4 | 29.0 |
| 21°   | 485.3 | 482.4 | 474.5 | 444.8 | 408.0 | 367.7 | 323.3 | 278.1 | 230.5 | 186.3 | 29.3 |
| 22°   | 557.8 | 559.2 | 540.9 | 509.7 | 471.5 | 426.8 | 372.7 | 316.8 | 265.5 | 207.4 | 28.8 |
| 23°   | 630.0 | 634.4 | 610.2 | 581.0 | 532.8 | 482.5 | 419.8 | 359.5 | 296.1 | 231.5 | 27.9 |
| 24°   | 696.8 | 693.7 | 677.4 | 640.6 | 589.1 | 530.2 | 465.1 | 391.9 | 321.2 | 252.1 | 27.2 |
| 25°   | 752.7 | 752.3 | 726.6 | 690.9 | 632.0 | 566.7 | 495.0 | 418.4 | 342.8 | 266.1 | 26.2 |
| 26°   | 798.4 | 790.9 | 770.7 | 727.1 | 669.0 | 600.0 | 519.4 | 437.8 | 354.9 | 273.1 | 25.3 |
| 27°   | 833.7 | 828.4 | 801.2 | 755.8 | 695.1 | 618.9 | 535.2 | 447.4 | 360.4 | 275.4 | 24.1 |
| 28°   | 857.5 | 851.7 | 822.7 | 776.0 | 709.5 | 630.7 | 543.5 | 451.4 | 360.4 | 273.2 | 23.0 |
| 29°   | 869.8 | 861.8 | 833.0 | 782.9 | 712.9 | 632.1 | 541.4 | 447.5 | 354.8 | 266.3 | 21.7 |
| 30°   | 868.8 | 859.0 | 828.7 | 776.6 | 703.0 | 620.7 | 530.1 | 433.1 | 342.0 | 256.2 | 20.2 |
| 31°   | 853.9 | 842.8 | 809.1 | 755.4 | 682.5 | 599.3 | 508.6 | 413.9 | 324.5 | 242.9 | 18.8 |
| 32°   | 823.5 | 809.4 | 776.5 | 723.0 | 651.1 | 567.2 | 477.5 | 384.2 | 298.4 | 223.6 | 17.2 |
| 33°   | 773.9 | 759.8 | 724.5 | 674.3 | 608.6 | 526.6 | 436.2 | 352.4 | 268.6 | 200.6 | 15.9 |
| 34°   | 711.9 | 699.0 | 668.6 | 618.0 | 555.0 | 475.1 | 388.7 | 308.3 | 237.8 | 177.8 | 14.5 |
| 35°   | 641.0 | 620.4 | 592.8 | 552.8 | 491.3 | 411.0 | 337.4 | 267.3 | 206.0 | 153.9 | 13.0 |
| 36°   | 544.9 | 548.6 | 519.4 | 470.5 | 419.5 | 356.5 | 285.9 | 222.8 | 172.3 | 131.1 | 11.7 |
| 37°   | 459.8 | 454.0 | 435.4 | 397.6 | 353.2 | 290.6 | 239.6 | 188.9 | 144.9 | 110.9 | 10.4 |
| 38°   | 370.9 | 372.2 | 354.0 | 324.9 | 280.9 | 239.0 | 192.9 | 155.2 | 121.2 | 94.4  | 9.1  |
| 39°   | 290.4 | 289.3 | 284.4 | 257.5 | 217.6 | 190.1 | 156.3 | 128.6 | 101.0 | 79.6  | 7.7  |
| 40°   | 218.7 | 220.4 | 208.9 | 192.7 | 169.5 | 146.8 | 124.5 | 102.6 | 83.5  | 67.1  | 6.0  |
| 42.5° | 106.4 | 109.0 | 101.4 | 97.2  | 87.0  | 78.1  | 65.9  | 53.8  | 45.7  | 39.6  | 2.7  |
| 45°   | 51.8  | 50.4  | 49.7  | 47.7  | 45.3  | 40.5  | 35.9  | 30.8  | 26.9  | 23.2  | 1.7  |
| 47.5° | 26.5  | 25.8  | 25.8  | 25.0  | 24.1  | 22.5  | 20.2  | 18.6  | 16.7  | 14.4  | 0.6  |
| 50°   | 7.9   | 7.9   | 7.8   | 7.9   | 7.6   | 7.9   | 8.0   | 8.1   | 7.4   | 7.3   | 0.2  |
| 52.5° | 3.1   | 3.2   | 3.1   | 3.4   | 3.4   | 3.3   | 3.4   | 3.3   | 3.2   | 2.9   | 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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CATALOG NUMBER: P3A02R159840DE010 E3A301H

**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: P1334182

CATALOG NUMBER: P3A02R159840DE010 E3A301H

**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°    | 4.0   | 3.0 | 2.0    | 1.6  | 1.4    | 1.3  |
| 7.5°  | 4.3   | 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 | 0.6    | 0.3  | 0.2    | 0.2  |
| 17.5° | 4.3   | 1.2 | 0.4    | 0.2  | 0.1    | 0.2  |
| 20°   | 4.0   | 0.9 | 0.2    | 0.1  | 0.1    | 0.1  |
| 21°   | 3.9   | 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   | 0.6 | 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°   | 2.9   | 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°   | 0.6   | 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  | 0.6    | 0.6  |
| 62.5° | 0.2   | 0.4 | 0.4    | 0.4  | 0.6    | 0.6  |
| 65°   | 0.2   | 0.4 | 0.4    | 0.5  | 0.6    | 0.6  |
| 67.5° | 0.2   | 0.4 | 0.4    | 0.4  | 0.5    | 0.6  |
| 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: P1334182

CATALOG NUMBER: P3A02R159840DE010 E3A301H

**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)