

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: P1334072

Luminaire Tested: P3A02R159727DE010 E3A301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334072  
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: P3A02R159727DE010 E3A301MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , E3A301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

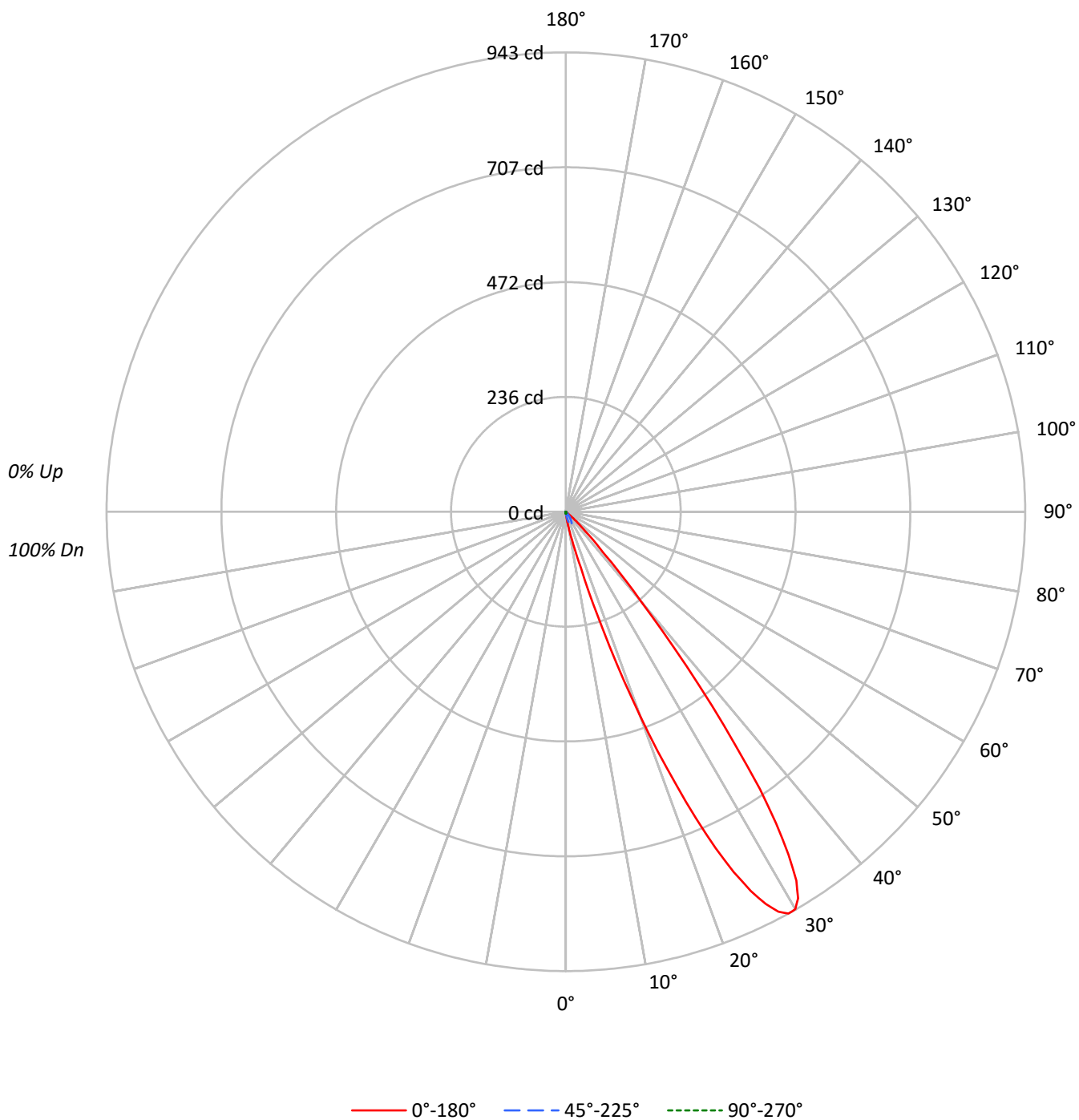
Lumens per Lamp: N/A  
Luminaire Lumens: 103.0 lumens  
Efficiency: N/A  
Efficacy: 28.6 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1334072

CATALOG NUMBER: P3A02R159727DE010 E3A301MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1334072

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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 | 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  | 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  | 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  | 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°  | 746    | 746  | 746 | 746  | 746  |
| 5°  | 1607   | 1189 | 704 | 374  | 308  |
| 10° | 7147   | 2249 | 557 | 156  | 111  |
| 15° | 26992  | 5199 | 386 | 68   | 45   |
| 20° | 103842 | 7351 | 233 | 23   | 23   |
| 25° | 197455 | 6896 | 121 | 0    | 0    |
| 30° | 238518 | 5545 | 51  | 0    | 0    |
| 35° | 186019 | 3774 | 27  | 0    | 0    |
| 40° | 67899  | 1861 | 29  | 0    | 29   |
| 45° | 17428  | 558  | 31  | 0    | 62   |
| 50° | 2934   | 68   | 34  | 34   | 102  |
| 55° | 382    | 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: 17428 cd/sqm

TEST NUMBER: P1334072

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.5    | 0.5       |
| 10°-20°   | 7.9    | 7.7       |
| 20°-30°   | 43.8   | 42.5      |
| 30°-40°   | 42.3   | 41.1      |
| 40°-50°   | 7.4    | 7.1       |
| 50°-60°   | 0.5    | 0.5       |
| 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°    | 52.1   | 50.6      |
| 0°-40°    | 94.4   | 91.7      |
| 0°-60°    | 102.3  | 99.3      |
| 0°-90°    | 103.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 103.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 3   | 3   | 3   | 3    | 3    |      |
| 5°  | 7   | 5   | 3   | 2    | 1    | 1    |
| 15° | 119 | 23  | 2   | 0    | 0    | 53   |
| 25° | 816 | 28  | 0   | 0    | 0    | 365  |
| 35° | 695 | 14  | 0   | 0    | 0    | 400  |
| 45° | 56  | 2   | 0   | 0    | 0    | 60   |
| 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    |      |

TEST NUMBER: P1334072

CATALOG NUMBER: P3A02R159727DE010 E3A301MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 2.5°  | 5°    | 7.5°  | 10°   | 12.5° | 15°   | 17.5° | 20°   | 22.5° | 45°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 0°    | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   | 3.4  |
| 2.5°  | 5.0   | 4.8   | 4.9   | 4.9   | 4.9   | 4.9   | 4.9   | 4.7   | 4.7   | 4.8   | 4.3  |
| 5°    | 7.3   | 7.3   | 7.2   | 7.3   | 7.3   | 7.2   | 7.0   | 6.9   | 6.9   | 6.7   | 5.4  |
| 7.5°  | 14.6  | 14.4  | 14.4  | 14.2  | 13.2  | 12.9  | 12.7  | 12.2  | 11.3  | 11.1  | 7.0  |
| 10°   | 32.1  | 32.2  | 31.5  | 30.6  | 30.5  | 29.0  | 28.5  | 27.6  | 25.8  | 24.1  | 10.1 |
| 12.5° | 58.2  | 56.9  | 55.2  | 55.3  | 52.4  | 51.4  | 49.1  | 46.6  | 44.0  | 41.3  | 16.6 |
| 15°   | 118.9 | 115.2 | 117.4 | 112.0 | 105.9 | 99.0  | 92.0  | 83.2  | 75.6  | 67.6  | 22.9 |
| 17.5° | 250.5 | 254.1 | 248.0 | 224.8 | 210.6 | 193.9 | 170.3 | 147.6 | 128.1 | 112.5 | 28.1 |
| 20°   | 445.0 | 450.3 | 429.5 | 409.4 | 374.8 | 337.1 | 297.9 | 253.4 | 210.8 | 173.9 | 31.5 |
| 21°   | 526.2 | 523.0 | 514.5 | 482.2 | 442.4 | 398.7 | 350.6 | 301.5 | 249.9 | 202.0 | 31.8 |
| 22°   | 604.8 | 606.3 | 586.4 | 552.7 | 511.2 | 462.8 | 404.1 | 343.5 | 287.9 | 224.8 | 31.3 |
| 23°   | 683.0 | 687.8 | 661.6 | 629.9 | 577.7 | 523.1 | 455.2 | 389.8 | 321.0 | 251.0 | 30.3 |
| 24°   | 755.5 | 752.1 | 734.4 | 694.5 | 638.7 | 574.8 | 504.3 | 424.9 | 348.3 | 273.3 | 29.5 |
| 25°   | 816.1 | 815.7 | 787.8 | 749.0 | 685.2 | 614.4 | 536.6 | 453.7 | 371.6 | 288.5 | 28.5 |
| 26°   | 865.7 | 857.6 | 835.6 | 788.3 | 725.3 | 650.6 | 563.2 | 474.6 | 384.7 | 296.1 | 27.5 |
| 27°   | 903.9 | 898.1 | 868.7 | 819.5 | 753.7 | 671.0 | 580.2 | 485.0 | 390.8 | 298.6 | 26.2 |
| 28°   | 929.7 | 923.4 | 892.0 | 841.3 | 769.3 | 683.8 | 589.2 | 489.4 | 390.8 | 296.2 | 24.9 |
| 29°   | 943.0 | 934.4 | 903.1 | 848.8 | 772.9 | 685.3 | 587.0 | 485.1 | 384.6 | 288.8 | 23.5 |
| 30°   | 942.0 | 931.3 | 898.5 | 842.0 | 762.2 | 673.0 | 574.7 | 469.6 | 370.8 | 277.7 | 21.9 |
| 31°   | 925.8 | 913.8 | 877.2 | 819.0 | 740.0 | 649.8 | 551.5 | 448.8 | 351.9 | 263.4 | 20.3 |
| 32°   | 892.8 | 877.6 | 841.9 | 783.9 | 706.0 | 615.0 | 517.7 | 416.6 | 323.5 | 242.5 | 18.6 |
| 33°   | 839.1 | 823.8 | 785.5 | 731.1 | 659.9 | 570.9 | 472.9 | 382.0 | 291.3 | 217.5 | 17.2 |
| 34°   | 771.9 | 757.9 | 724.9 | 670.1 | 601.8 | 515.1 | 421.4 | 334.2 | 257.8 | 192.8 | 15.7 |
| 35°   | 694.9 | 672.6 | 642.7 | 599.4 | 532.7 | 445.6 | 365.8 | 289.8 | 223.3 | 166.8 | 14.1 |
| 36°   | 590.8 | 594.8 | 563.2 | 510.1 | 454.9 | 386.5 | 310.0 | 241.6 | 186.8 | 142.2 | 12.7 |
| 37°   | 498.6 | 492.2 | 472.1 | 431.0 | 382.9 | 315.1 | 259.8 | 204.8 | 157.1 | 120.2 | 11.2 |
| 38°   | 402.2 | 403.6 | 383.8 | 352.3 | 304.6 | 259.1 | 209.1 | 168.2 | 131.5 | 102.3 | 9.8  |
| 39°   | 314.8 | 313.7 | 308.4 | 279.1 | 236.0 | 206.1 | 169.4 | 139.5 | 109.5 | 86.3  | 8.3  |
| 40°   | 237.2 | 239.0 | 226.5 | 208.9 | 183.8 | 159.2 | 135.0 | 111.2 | 90.6  | 72.7  | 6.5  |
| 42.5° | 115.3 | 118.1 | 109.9 | 105.4 | 94.3  | 84.7  | 71.4  | 58.3  | 49.6  | 42.9  | 2.9  |
| 45°   | 56.2  | 54.6  | 53.9  | 51.7  | 49.1  | 43.9  | 38.9  | 33.4  | 29.2  | 25.1  | 1.8  |
| 47.5° | 28.8  | 28.0  | 28.0  | 27.1  | 26.2  | 24.4  | 21.9  | 20.1  | 18.1  | 15.6  | 0.7  |
| 50°   | 8.6   | 8.5   | 8.4   | 8.5   | 8.2   | 8.5   | 8.7   | 8.8   | 8.0   | 7.9   | 0.2  |
| 52.5° | 3.4   | 3.5   | 3.4   | 3.7   | 3.7   | 3.6   | 3.7   | 3.6   | 3.5   | 3.1   | 0.0  |
| 55°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.1   | 1.2   | 1.1   | 1.2   | 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: P3A02R159727DE010 E3A301MW

**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: P1334072

CATALOG NUMBER: P3A02R159727DE010 E3A301MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 3.4   | 3.4 | 3.4    | 3.4  | 3.4    | 3.4  |
| 2.5°  | 4.0   | 3.5 | 2.9    | 2.4  | 2.2    | 2.1  |
| 5°    | 4.3   | 3.2 | 2.2    | 1.7  | 1.5    | 1.4  |
| 7.5°  | 4.6   | 2.9 | 1.7    | 1.2  | 0.9    | 0.8  |
| 10°   | 4.8   | 2.5 | 1.3    | 0.7  | 0.5    | 0.5  |
| 12.5° | 4.8   | 2.0 | 0.9    | 0.4  | 0.3    | 0.3  |
| 15°   | 4.7   | 1.7 | 0.6    | 0.3  | 0.2    | 0.2  |
| 17.5° | 4.6   | 1.3 | 0.4    | 0.2  | 0.1    | 0.2  |
| 20°   | 4.3   | 1.0 | 0.2    | 0.1  | 0.1    | 0.1  |
| 21°   | 4.2   | 0.9 | 0.2    | 0.1  | 0.1    | 0.1  |
| 22°   | 4.0   | 0.8 | 0.1    | 0.0  | 0.1    | 0.1  |
| 23°   | 3.8   | 0.6 | 0.1    | 0.0  | 0.0    | 0.0  |
| 24°   | 3.5   | 0.5 | 0.1    | 0.0  | 0.0    | 0.0  |
| 25°   | 3.3   | 0.5 | 0.1    | 0.0  | 0.0    | 0.0  |
| 26°   | 3.1   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 27°   | 2.8   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 2.6   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 2.3   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 2.0   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 1.6   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 1.3   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 0.9   | 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: P1334072

CATALOG NUMBER: P3A02R159727DE010 E3A301MW

**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)