

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: P1334462

Luminaire Tested: P3A02R209827DE010 E3A301WMH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334462  
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: P3A02R209827DE010 E3A301WMH  
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3A301WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

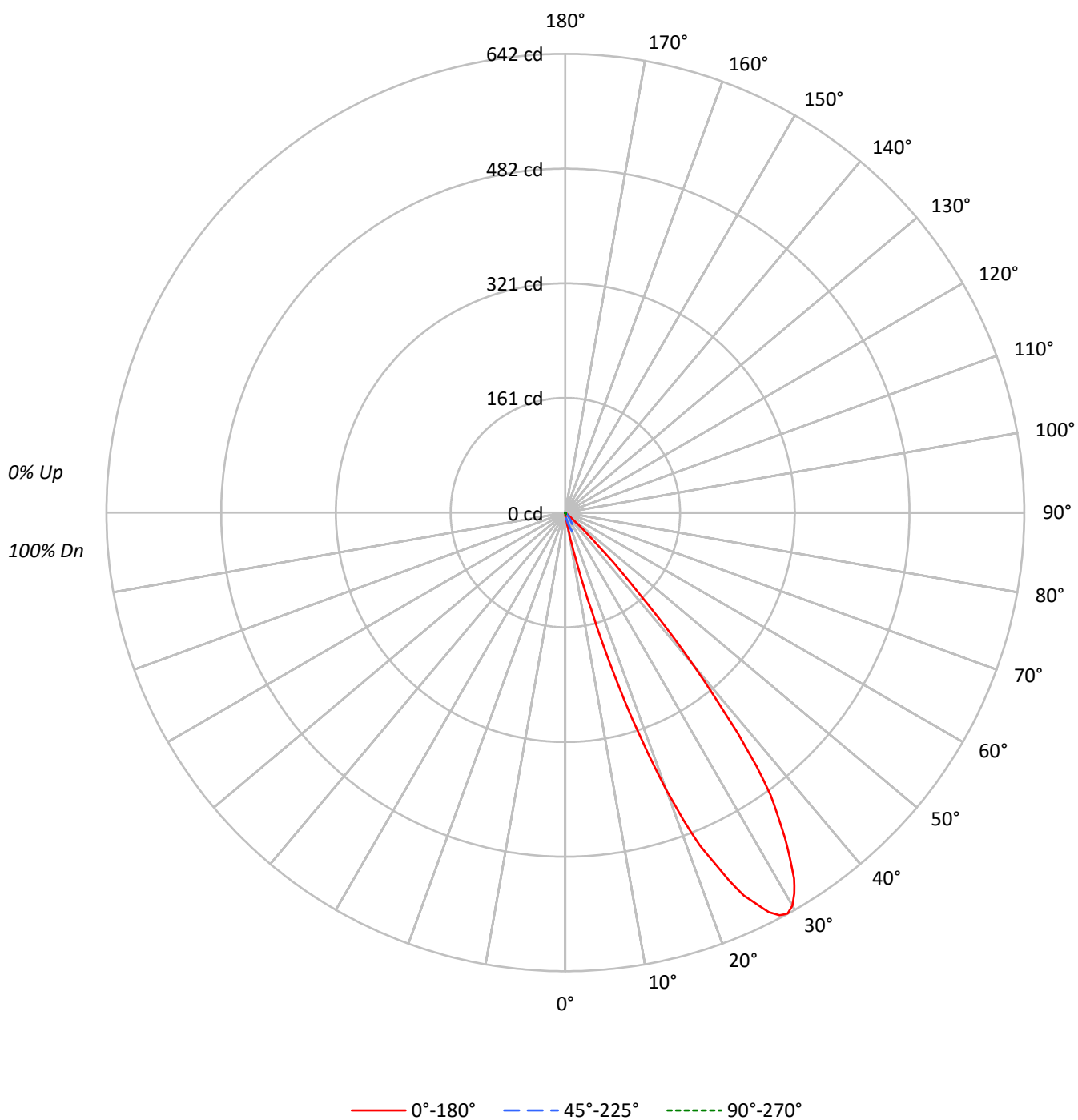
Lumens per Lamp: N/A  
Luminaire Lumens: 90.0 lumens  
Efficiency: N/A  
Efficacy: 25.0 lumens/watt  
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

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CATALOG NUMBER: P3A02R209827DE010 E3A301WMH

### Luminous Intensity Polar Plot



TEST NUMBER: P1334462

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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  | 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°  | 680    | 680  | 680 | 680  | 680  |
| 5°  | 1563   | 1167 | 638 | 396  | 352  |
| 10° | 4921   | 2026 | 534 | 223  | 156  |
| 15° | 31918  | 3768 | 386 | 68   | 23   |
| 20° | 96328  | 6441 | 257 | 0    | 0    |
| 25° | 143065 | 6508 | 169 | 0    | 0    |
| 30° | 160886 | 4937 | 51  | 0    | 0    |
| 35° | 138825 | 2945 | 54  | 0    | 0    |
| 40° | 79921  | 1002 | 0   | 0    | 0    |
| 45° | 19506  | 403  | 31  | 0    | 31   |
| 50° | 2354   | 102  | 34  | 34   | 68   |
| 55° | 306    | 0    | 76  | 76   | 115  |
| 60° | 44     | 0    | 88  | 88   | 175  |
| 65° | 52     | 52   | 156 | 156  | 259  |
| 70° | 64     | 64   | 192 | 192  | 256  |
| 75° | 0      | 85   | 254 | 169  | 254  |
| 80° | 0      | 126  | 253 | 253  | 253  |
| 85° | 0      | 252  | 503 | 252  | 252  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 19630 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.4    | 0.5       |
| 10°-20°   | 8.3    | 9.3       |
| 20°-30°   | 36.4   | 40.4      |
| 30°-40°   | 36.6   | 40.7      |
| 40°-50°   | 7.3    | 8.2       |
| 50°-60°   | 0.4    | 0.4       |
| 60°-70°   | 0.2    | 0.3       |
| 70°-80°   | 0.2    | 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°    | 45.1   | 50.1      |
| 0°-40°    | 81.7   | 90.8      |
| 0°-60°    | 89.4   | 99.4      |
| 0°-90°    | 90.0   | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 90.0   | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 3   | 3   | 3   | 3    | 3    |      |
| 5°  | 7   | 5   | 3   | 2    | 2    | 1    |
| 15° | 141 | 17  | 2   | 0    | 0    | 55   |
| 25° | 591 | 27  | 1   | 0    | 0    | 267  |
| 35° | 519 | 11  | 0   | 0    | 0    | 309  |
| 45° | 63  | 1   | 0   | 0    | 0    | 68   |
| 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    |      |

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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°  | 4.7   | 4.7   | 4.6   | 4.6   | 4.5   | 4.6   | 4.4   | 4.5   | 4.5   | 4.4   | 4.0  |
| 5°    | 7.1   | 7.3   | 7.2   | 7.2   | 7.1   | 7.2   | 7.0   | 6.9   | 6.7   | 6.7   | 5.3  |
| 7.5°  | 11.7  | 11.6  | 11.4  | 11.5  | 11.3  | 11.1  | 10.9  | 10.9  | 10.4  | 10.1  | 6.9  |
| 10°   | 22.1  | 22.6  | 22.2  | 22.1  | 20.7  | 20.6  | 19.6  | 18.2  | 17.0  | 16.3  | 9.1  |
| 12.5° | 60.9  | 63.5  | 59.4  | 57.5  | 56.3  | 51.9  | 50.1  | 45.2  | 40.6  | 37.1  | 11.6 |
| 15°   | 140.6 | 147.1 | 138.8 | 139.4 | 132.5 | 119.9 | 108.9 | 99.5  | 88.3  | 77.0  | 16.6 |
| 17.5° | 275.5 | 270.3 | 265.8 | 258.2 | 244.2 | 225.8 | 202.0 | 177.9 | 157.1 | 135.3 | 23.1 |
| 20°   | 412.8 | 408.2 | 398.0 | 381.4 | 363.6 | 336.2 | 308.0 | 271.8 | 236.8 | 204.0 | 27.6 |
| 21°   | 460.1 | 458.6 | 441.8 | 431.6 | 404.2 | 378.0 | 345.5 | 306.8 | 267.3 | 228.5 | 28.3 |
| 22°   | 502.3 | 493.0 | 484.0 | 468.9 | 441.7 | 413.2 | 377.0 | 336.2 | 293.5 | 250.3 | 28.4 |
| 23°   | 531.6 | 527.3 | 518.8 | 501.7 | 474.6 | 441.2 | 403.0 | 360.4 | 315.3 | 265.7 | 28.2 |
| 24°   | 563.9 | 558.5 | 546.1 | 526.2 | 498.8 | 465.8 | 422.2 | 379.9 | 330.9 | 278.7 | 27.5 |
| 25°   | 591.3 | 582.9 | 568.2 | 546.7 | 516.9 | 482.8 | 439.0 | 392.5 | 341.8 | 287.4 | 26.9 |
| 26°   | 609.1 | 604.5 | 585.7 | 562.3 | 530.3 | 495.2 | 450.5 | 402.1 | 348.8 | 291.4 | 25.8 |
| 27°   | 627.7 | 619.2 | 600.7 | 573.8 | 539.1 | 503.3 | 457.0 | 406.8 | 351.3 | 291.6 | 24.5 |
| 28°   | 638.3 | 629.1 | 608.1 | 579.9 | 544.9 | 507.8 | 460.8 | 408.3 | 350.8 | 289.0 | 22.9 |
| 29°   | 641.6 | 630.1 | 609.6 | 580.9 | 546.2 | 508.1 | 460.2 | 406.1 | 346.4 | 282.8 | 21.1 |
| 30°   | 635.4 | 623.7 | 604.2 | 576.2 | 541.8 | 504.0 | 454.9 | 399.1 | 338.8 | 273.9 | 19.5 |
| 31°   | 621.9 | 611.9 | 593.1 | 565.0 | 532.0 | 494.5 | 442.9 | 387.6 | 325.7 | 262.0 | 17.6 |
| 32°   | 604.0 | 594.2 | 575.7 | 550.3 | 516.8 | 478.9 | 426.5 | 369.6 | 310.4 | 244.2 | 15.8 |
| 33°   | 577.1 | 571.5 | 554.9 | 530.7 | 497.1 | 456.6 | 404.4 | 348.2 | 288.5 | 224.5 | 14.1 |
| 34°   | 549.9 | 542.8 | 531.2 | 504.7 | 468.6 | 428.2 | 375.7 | 318.5 | 261.8 | 202.3 | 12.6 |
| 35°   | 518.6 | 514.3 | 496.1 | 474.9 | 438.6 | 397.3 | 345.1 | 289.7 | 230.7 | 177.7 | 11.0 |
| 36°   | 488.2 | 481.7 | 460.9 | 438.5 | 403.3 | 358.6 | 307.1 | 255.0 | 203.8 | 154.6 | 9.4  |
| 37°   | 444.1 | 434.1 | 419.4 | 395.7 | 354.5 | 316.5 | 269.4 | 221.1 | 170.7 | 129.6 | 7.6  |
| 38°   | 392.3 | 387.6 | 367.1 | 343.3 | 309.2 | 273.1 | 226.6 | 185.6 | 140.8 | 108.2 | 5.8  |
| 39°   | 331.1 | 331.0 | 311.4 | 294.2 | 260.9 | 228.4 | 186.4 | 150.6 | 116.3 | 87.1  | 4.5  |
| 40°   | 279.2 | 269.6 | 257.5 | 235.9 | 210.3 | 182.7 | 146.0 | 117.9 | 90.2  | 70.2  | 3.5  |
| 42.5° | 146.4 | 145.6 | 138.5 | 122.2 | 107.9 | 91.7  | 72.9  | 60.7  | 47.5  | 38.7  | 2.2  |
| 45°   | 62.9  | 63.3  | 58.4  | 55.9  | 50.4  | 43.6  | 36.8  | 30.7  | 26.3  | 21.3  | 1.3  |
| 47.5° | 15.9  | 15.3  | 15.1  | 15.7  | 15.7  | 15.2  | 13.6  | 12.8  | 11.8  | 10.9  | 0.7  |
| 50°   | 6.9   | 6.7   | 6.5   | 6.5   | 6.1   | 5.9   | 5.5   | 5.0   | 4.6   | 4.1   | 0.3  |
| 52.5° | 2.5   | 2.6   | 2.7   | 2.6   | 2.6   | 2.5   | 2.5   | 2.4   | 2.2   | 2.0   | 0.2  |
| 55°   | 0.8   | 0.8   | 0.8   | 0.9   | 0.9   | 1.0   | 1.0   | 1.0   | 1.0   | 0.9   | 0.0  |
| 57.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.3   | 0.3   | 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 |

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CATALOG NUMBER: P3A02R209827DE010 E3A301WMH

**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°  | 3.6   | 3.2 | 2.7    | 2.3  | 2.2    | 2.1  |
| 5°    | 4.0   | 2.9 | 2.2    | 1.8  | 1.6    | 1.6  |
| 7.5°  | 4.3   | 2.7 | 1.8    | 1.3  | 1.1    | 1.1  |
| 10°   | 4.5   | 2.4 | 1.5    | 1.0  | 0.7    | 0.7  |
| 12.5° | 4.6   | 2.0 | 1.1    | 0.7  | 0.4    | 0.4  |
| 15°   | 4.5   | 1.7 | 0.8    | 0.3  | 0.1    | 0.1  |
| 17.5° | 4.1   | 1.4 | 0.5    | 0.1  | 0.0    | 0.0  |
| 20°   | 3.5   | 1.1 | 0.3    | 0.0  | 0.0    | 0.0  |
| 21°   | 3.3   | 1.0 | 0.2    | 0.0  | 0.0    | 0.0  |
| 22°   | 3.1   | 0.9 | 0.2    | 0.0  | 0.0    | 0.0  |
| 23°   | 2.9   | 0.8 | 0.2    | 0.0  | 0.0    | 0.0  |
| 24°   | 2.6   | 0.7 | 0.1    | 0.0  | 0.0    | 0.0  |
| 25°   | 2.4   | 0.7 | 0.1    | 0.0  | 0.0    | 0.0  |
| 26°   | 2.3   | 0.6 | 0.1    | 0.0  | 0.0    | 0.0  |
| 27°   | 2.0   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 1.9   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 1.6   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 1.4   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 1.1   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 1.0   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 0.8   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 0.7   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 0.7   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 0.5   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 37°   | 0.4   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 38°   | 0.3   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 39°   | 0.2   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 0.2   | 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    | 0.2  |
| 52.5° | 0.0   | 0.2 | 0.1    | 0.1  | 0.2    | 0.2  |
| 55°   | 0.1   | 0.2 | 0.1    | 0.2  | 0.3    | 0.3  |
| 57.5° | 0.1   | 0.2 | 0.2    | 0.2  | 0.3    | 0.4  |
| 60°   | 0.2   | 0.2 | 0.2    | 0.2  | 0.4    | 0.4  |
| 62.5° | 0.2   | 0.2 | 0.3    | 0.3  | 0.4    | 0.5  |
| 65°   | 0.2   | 0.3 | 0.3    | 0.3  | 0.4    | 0.5  |
| 67.5° | 0.2   | 0.3 | 0.3    | 0.3  | 0.4    | 0.5  |
| 70°   | 0.2   | 0.3 | 0.3    | 0.3  | 0.4    | 0.4  |
| 72.5° | 0.2   | 0.3 | 0.2    | 0.3  | 0.3    | 0.4  |
| 75°   | 0.2   | 0.3 | 0.2    | 0.2  | 0.3    | 0.3  |
| 77.5° | 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  |





TEST NUMBER: P1334462

CATALOG NUMBER: P3A02R209827DE010 E3A301WMH

**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)