

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: P1334409

Luminaire Tested: P3A02R209730DE010 E3A301GPH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334409  
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: P3A02R209730DE010 E3A301GPH  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , E3A301GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

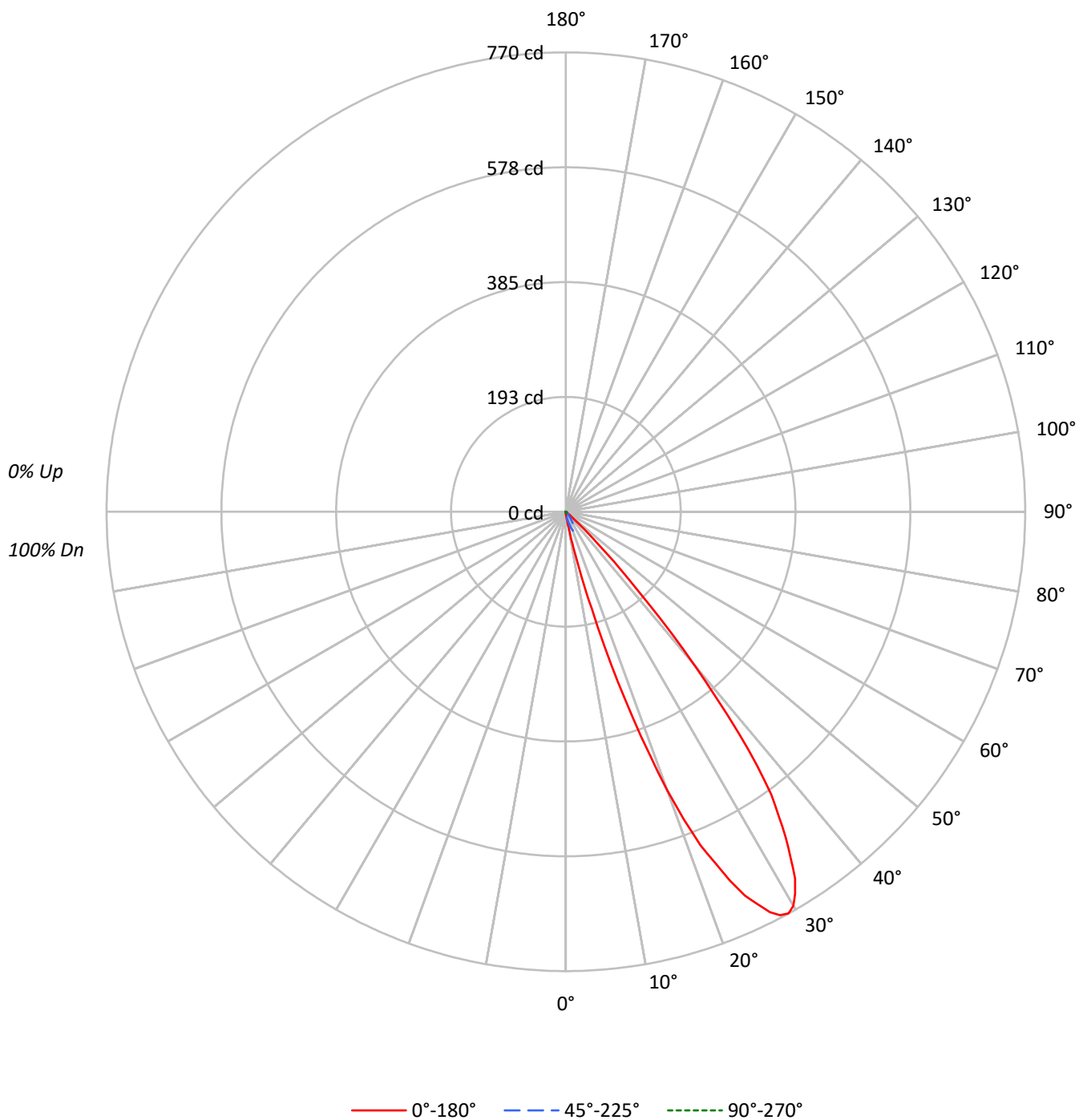
Lumens per Lamp: N/A  
Luminaire Lumens: 108.0 lumens  
Efficiency: N/A  
Efficacy: 30.0 lumens/watt  
Spacing Criteria (0/90/45): 2.3 / 0.55 / 1.19  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1334409

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### 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 |
| 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  | 75  | 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°  | 811    | 811  | 811 | 811  | 811  |
| 5°  | 1871   | 1409 | 770 | 484  | 418  |
| 10° | 5923   | 2449 | 623 | 267  | 200  |
| 15° | 38298  | 4518 | 477 | 91   | 23   |
| 20° | 115603 | 7724 | 327 | 0    | 0    |
| 25° | 171687 | 7791 | 194 | 0    | 0    |
| 30° | 193068 | 5925 | 76  | 0    | 0    |
| 35° | 166585 | 3534 | 54  | 0    | 0    |
| 40° | 95923  | 1202 | 0   | 0    | 0    |
| 45° | 23382  | 496  | 31  | 0    | 31   |
| 50° | 2797   | 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: 23537 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.5    | 0.5       |
| 10°-20°   | 10.0   | 9.3       |
| 20°-30°   | 43.6   | 40.4      |
| 30°-40°   | 43.9   | 40.7      |
| 40°-50°   | 8.8    | 8.2       |
| 50°-60°   | 0.4    | 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°    | 54.1   | 50.1      |
| 0°-40°    | 98.1   | 90.8      |
| 0°-60°    | 107.3  | 99.4      |
| 0°-90°    | 108.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 108.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 4   | 4   | 4   | 4    | 4    |      |
| 5°  | 8   | 6   | 4   | 2    | 2    | 1    |
| 15° | 169 | 20  | 2   | 0    | 0    | 66   |
| 25° | 710 | 32  | 1   | 0    | 0    | 320  |
| 35° | 622 | 13  | 0   | 0    | 0    | 370  |
| 45° | 75  | 2   | 0   | 0    | 0    | 82   |
| 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°    | 3.7   | 3.7   | 3.7   | 3.7   | 3.7   | 3.7   | 3.7   | 3.7   | 3.7   | 3.7   | 3.7  |
| 2.5°  | 5.6   | 5.6   | 5.5   | 5.5   | 5.4   | 5.5   | 5.3   | 5.4   | 5.4   | 5.3   | 4.8  |
| 5°    | 8.5   | 8.7   | 8.6   | 8.6   | 8.5   | 8.6   | 8.4   | 8.2   | 8.0   | 8.0   | 6.4  |
| 7.5°  | 14.0  | 13.9  | 13.7  | 13.8  | 13.5  | 13.3  | 13.1  | 13.0  | 12.4  | 12.1  | 8.3  |
| 10°   | 26.6  | 27.1  | 26.7  | 26.6  | 24.8  | 24.7  | 23.5  | 21.8  | 20.4  | 19.6  | 11.0 |
| 12.5° | 73.1  | 76.2  | 71.3  | 69.0  | 67.6  | 62.3  | 60.1  | 54.3  | 48.7  | 44.5  | 13.9 |
| 15°   | 168.7 | 176.5 | 166.6 | 167.3 | 159.0 | 143.9 | 130.7 | 119.3 | 105.9 | 92.4  | 19.9 |
| 17.5° | 330.6 | 324.3 | 318.9 | 309.8 | 293.1 | 270.9 | 242.4 | 213.5 | 188.5 | 162.4 | 27.7 |
| 20°   | 495.4 | 489.8 | 477.6 | 457.7 | 436.3 | 403.5 | 369.6 | 326.2 | 284.1 | 244.8 | 33.1 |
| 21°   | 552.1 | 550.3 | 530.2 | 517.9 | 485.0 | 453.7 | 414.6 | 368.1 | 320.8 | 274.2 | 34.0 |
| 22°   | 602.8 | 591.6 | 580.8 | 562.7 | 530.0 | 495.9 | 452.4 | 403.5 | 352.1 | 300.3 | 34.1 |
| 23°   | 637.9 | 632.8 | 622.6 | 602.1 | 569.6 | 529.5 | 483.6 | 432.5 | 378.4 | 318.8 | 33.8 |
| 24°   | 676.7 | 670.2 | 655.3 | 631.4 | 598.6 | 559.0 | 506.7 | 455.9 | 397.1 | 334.4 | 33.0 |
| 25°   | 709.6 | 699.5 | 681.9 | 656.1 | 620.2 | 579.4 | 526.7 | 471.0 | 410.2 | 344.9 | 32.2 |
| 26°   | 730.9 | 725.5 | 702.8 | 674.8 | 636.4 | 594.3 | 540.6 | 482.6 | 418.6 | 349.7 | 31.0 |
| 27°   | 753.2 | 743.1 | 720.9 | 688.6 | 647.0 | 604.0 | 548.4 | 488.1 | 421.5 | 349.9 | 29.4 |
| 28°   | 765.9 | 754.9 | 729.8 | 695.9 | 653.8 | 609.3 | 552.9 | 489.9 | 420.9 | 346.9 | 27.5 |
| 29°   | 769.9 | 756.1 | 731.5 | 697.0 | 655.5 | 609.7 | 552.2 | 487.4 | 415.7 | 339.4 | 25.4 |
| 30°   | 762.5 | 748.4 | 725.1 | 691.5 | 650.2 | 604.8 | 545.9 | 478.9 | 406.5 | 328.7 | 23.4 |
| 31°   | 746.2 | 734.3 | 711.7 | 678.0 | 638.4 | 593.4 | 531.5 | 465.1 | 390.8 | 314.4 | 21.2 |
| 32°   | 724.8 | 713.0 | 690.9 | 660.4 | 620.1 | 574.7 | 511.8 | 443.6 | 372.4 | 293.1 | 18.9 |
| 33°   | 692.5 | 685.8 | 665.9 | 636.8 | 596.5 | 547.9 | 485.3 | 417.8 | 346.2 | 269.4 | 17.0 |
| 34°   | 659.9 | 651.4 | 637.5 | 605.6 | 562.3 | 513.8 | 450.8 | 382.2 | 314.1 | 242.8 | 15.1 |
| 35°   | 622.3 | 617.2 | 595.3 | 569.9 | 526.4 | 476.8 | 414.2 | 347.6 | 276.8 | 213.2 | 13.2 |
| 36°   | 585.8 | 578.0 | 553.1 | 526.2 | 483.9 | 430.3 | 368.5 | 306.0 | 244.6 | 185.5 | 11.3 |
| 37°   | 532.9 | 521.0 | 503.2 | 474.8 | 425.4 | 379.8 | 323.3 | 265.3 | 204.9 | 155.5 | 9.1  |
| 38°   | 470.7 | 465.1 | 440.5 | 411.9 | 371.1 | 327.7 | 271.9 | 222.7 | 169.0 | 129.8 | 7.0  |
| 39°   | 397.3 | 397.2 | 373.7 | 353.0 | 313.1 | 274.1 | 223.7 | 180.8 | 139.5 | 104.5 | 5.4  |
| 40°   | 335.1 | 323.5 | 309.0 | 283.1 | 252.4 | 219.3 | 175.2 | 141.5 | 108.3 | 84.3  | 4.2  |
| 42.5° | 175.7 | 174.7 | 166.2 | 146.7 | 129.5 | 110.0 | 87.5  | 72.9  | 57.0  | 46.4  | 2.6  |
| 45°   | 75.4  | 75.9  | 70.1  | 67.1  | 60.5  | 52.3  | 44.2  | 36.8  | 31.6  | 25.6  | 1.6  |
| 47.5° | 19.1  | 18.3  | 18.1  | 18.8  | 18.8  | 18.2  | 16.4  | 15.4  | 14.2  | 13.0  | 0.9  |
| 50°   | 8.2   | 8.0   | 7.8   | 7.8   | 7.3   | 7.1   | 6.6   | 6.0   | 5.5   | 4.9   | 0.4  |
| 52.5° | 3.0   | 3.1   | 3.2   | 3.1   | 3.1   | 3.0   | 3.0   | 2.9   | 2.6   | 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: P1334409

CATALOG NUMBER: P3A02R209730DE010 E3A301GPH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 3.7   | 3.7 | 3.7    | 3.7  | 3.7    | 3.7  |
| 2.5°  | 4.3   | 3.8 | 3.2    | 2.7  | 2.6    | 2.5  |
| 5°    | 4.8   | 3.5 | 2.6    | 2.2  | 2.0    | 1.9  |
| 7.5°  | 5.2   | 3.2 | 2.2    | 1.6  | 1.4    | 1.3  |
| 10°   | 5.4   | 2.8 | 1.8    | 1.2  | 0.9    | 0.9  |
| 12.5° | 5.5   | 2.4 | 1.3    | 0.8  | 0.5    | 0.5  |
| 15°   | 5.4   | 2.1 | 1.0    | 0.4  | 0.1    | 0.1  |
| 17.5° | 4.9   | 1.7 | 0.6    | 0.1  | 0.0    | 0.0  |
| 20°   | 4.2   | 1.4 | 0.4    | 0.0  | 0.0    | 0.0  |
| 21°   | 4.0   | 1.2 | 0.3    | 0.0  | 0.0    | 0.0  |
| 22°   | 3.7   | 1.1 | 0.2    | 0.0  | 0.0    | 0.0  |
| 23°   | 3.4   | 1.0 | 0.2    | 0.0  | 0.0    | 0.0  |
| 24°   | 3.1   | 0.9 | 0.1    | 0.0  | 0.0    | 0.0  |
| 25°   | 2.9   | 0.8 | 0.1    | 0.0  | 0.0    | 0.0  |
| 26°   | 2.7   | 0.7 | 0.1    | 0.0  | 0.0    | 0.0  |
| 27°   | 2.4   | 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: P1334409

CATALOG NUMBER: P3A02R209730DE010 E3A301GPH

**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)