

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: P1334429

Luminaire Tested: P3A02R209735DE010 E3A301WH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334429  
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: P3A02R209735DE010 E3A301WH  
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 97CRI , E3A301WH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

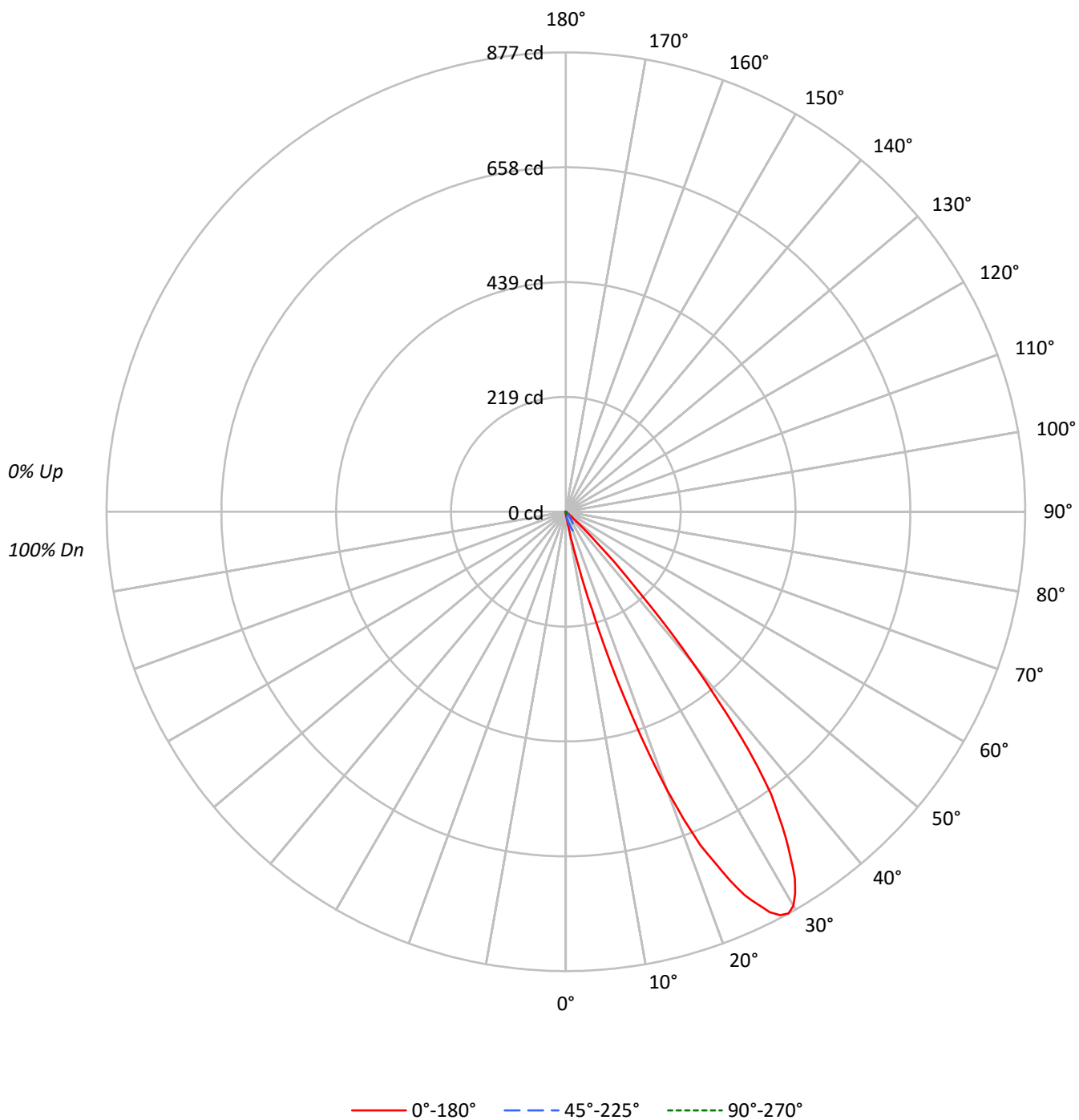
Lumens per Lamp: N/A  
Luminaire Lumens: 122.9 lumens  
Efficiency: N/A  
Efficacy: 34.1 lumens/watt  
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1334429

CATALOG NUMBER: P3A02R209735DE010 E3A301WH

### Luminous Intensity Polar Plot



TEST NUMBER: P1334429

CATALOG NUMBER: P3A02R209735DE010 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 | 99  | 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  | 76  | 71  | 79  | 74  | 71  | 77  | 73  | 70  | 70  | 70  | 68  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 72  | 68  | 64  | 71  | 67  | 63  | 63  | 63  | 61  |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 62  | 58  | 65  | 61  | 57  | 57  | 57  | 55  |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 58  | 53  | 63  | 57  | 52  | 62  | 56  | 52  | 60  | 55  | 52  | 52  | 52  | 50  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 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  | 43  | 43  | 43  | 41  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 42  | 39  | 39  | 39  | 37  |

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

|     | 0°     | 45°  | 90° | 135° | 180° |
|-----|--------|------|-----|------|------|
| 0°  | 921    | 921  | 921 | 921  | 921  |
| 5°  | 2135   | 1607 | 880 | 550  | 462  |
| 10° | 6724   | 2783 | 713 | 289  | 223  |
| 15° | 43632  | 5153 | 522 | 91   | 23   |
| 20° | 131658 | 8797 | 373 | 0    | 0    |
| 25° | 195519 | 8880 | 218 | 0    | 0    |
| 30° | 219882 | 6761 | 76  | 0    | 0    |
| 35° | 189714 | 4042 | 54  | 0    | 0    |
| 40° | 109233 | 1374 | 0   | 0    | 0    |
| 45° | 26638  | 558  | 31  | 0    | 31   |
| 50° | 3207   | 136  | 34  | 34   | 102  |
| 55° | 421    | 0    | 76  | 76   | 153  |
| 60° | 44     | 0    | 132 | 132  | 263  |
| 65° | 52     | 52   | 208 | 208  | 363  |
| 70° | 64     | 64   | 256 | 256  | 385  |
| 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: 26824 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.6    | 0.5       |
| 10°-20°   | 11.4   | 9.3       |
| 20°-30°   | 49.7   | 40.4      |
| 30°-40°   | 50.0   | 40.7      |
| 40°-50°   | 10.0   | 8.2       |
| 50°-60°   | 0.5    | 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°    | 61.6   | 50.2      |
| 0°-40°    | 111.7  | 90.9      |
| 0°-60°    | 122.2  | 99.4      |
| 0°-90°    | 122.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 122.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 4   | 4   | 4   | 4    | 4    |      |
| 5°  | 10  | 7   | 4   | 2    | 2    | 2    |
| 15° | 192 | 23  | 2   | 0    | 0    | 75   |
| 25° | 808 | 37  | 1   | 0    | 0    | 364  |
| 35° | 709 | 15  | 0   | 0    | 0    | 422  |
| 45° | 86  | 2   | 0   | 0    | 0    | 94   |
| 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: P1334429

CATALOG NUMBER: P3A02R209735DE010 E3A301WH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 2.5°  | 5°    | 7.5°  | 10°   | 12.5° | 15°   | 17.5° | 20°   | 22.5° | 45°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 0°    | 4.2   | 4.2   | 4.2   | 4.2   | 4.2   | 4.2   | 4.2   | 4.2   | 4.2   | 4.2   | 4.2  |
| 2.5°  | 6.4   | 6.4   | 6.2   | 6.2   | 6.1   | 6.2   | 6.0   | 6.1   | 6.1   | 6.0   | 5.5  |
| 5°    | 9.7   | 9.9   | 9.8   | 9.8   | 9.7   | 9.8   | 9.6   | 9.4   | 9.2   | 9.2   | 7.3  |
| 7.5°  | 16.0  | 15.8  | 15.6  | 15.7  | 15.4  | 15.2  | 15.0  | 14.8  | 14.2  | 13.8  | 9.5  |
| 10°   | 30.2  | 30.9  | 30.4  | 30.2  | 28.2  | 28.1  | 26.8  | 24.9  | 23.2  | 22.3  | 12.5 |
| 12.5° | 83.2  | 86.8  | 81.2  | 78.6  | 77.0  | 71.0  | 68.4  | 61.8  | 55.5  | 50.7  | 15.8 |
| 15°   | 192.2 | 201.0 | 189.7 | 190.5 | 181.1 | 163.9 | 148.9 | 135.9 | 120.6 | 105.2 | 22.7 |
| 17.5° | 376.5 | 369.4 | 363.2 | 352.8 | 333.8 | 308.5 | 276.1 | 243.2 | 214.7 | 184.9 | 31.6 |
| 20°   | 564.2 | 557.8 | 543.9 | 521.2 | 496.9 | 459.5 | 420.9 | 371.5 | 323.6 | 278.8 | 37.7 |
| 21°   | 628.8 | 626.7 | 603.8 | 589.9 | 552.4 | 516.7 | 472.1 | 419.2 | 365.3 | 312.2 | 38.7 |
| 22°   | 686.5 | 673.8 | 661.5 | 640.9 | 603.6 | 564.8 | 515.2 | 459.5 | 401.1 | 342.0 | 38.8 |
| 23°   | 726.5 | 720.6 | 709.0 | 685.7 | 648.7 | 603.0 | 550.8 | 492.6 | 431.0 | 363.1 | 38.5 |
| 24°   | 770.6 | 763.3 | 746.3 | 719.1 | 681.7 | 636.6 | 577.0 | 519.2 | 452.3 | 380.9 | 37.6 |
| 25°   | 808.1 | 796.6 | 776.6 | 747.2 | 706.4 | 659.8 | 599.9 | 536.4 | 467.1 | 392.8 | 36.7 |
| 26°   | 832.5 | 826.2 | 800.4 | 768.5 | 724.8 | 676.8 | 615.6 | 549.6 | 476.7 | 398.3 | 35.3 |
| 27°   | 857.8 | 846.3 | 821.0 | 784.3 | 736.8 | 687.8 | 624.6 | 555.9 | 480.1 | 398.5 | 33.5 |
| 28°   | 872.3 | 859.8 | 831.1 | 792.5 | 744.6 | 694.0 | 629.7 | 558.0 | 479.4 | 395.0 | 31.4 |
| 29°   | 876.9 | 861.1 | 833.1 | 793.9 | 746.5 | 694.4 | 628.9 | 555.0 | 473.5 | 386.5 | 28.9 |
| 30°   | 868.4 | 852.3 | 825.8 | 787.5 | 740.5 | 688.8 | 621.7 | 545.5 | 463.0 | 374.4 | 26.7 |
| 31°   | 849.9 | 836.3 | 810.6 | 772.2 | 727.1 | 675.8 | 605.3 | 529.7 | 445.1 | 358.1 | 24.1 |
| 32°   | 825.4 | 812.0 | 786.8 | 752.1 | 706.3 | 654.5 | 582.8 | 505.2 | 424.2 | 333.8 | 21.5 |
| 33°   | 788.7 | 781.0 | 758.4 | 725.2 | 679.4 | 624.0 | 552.7 | 475.8 | 394.2 | 306.8 | 19.3 |
| 34°   | 751.6 | 741.9 | 726.0 | 689.7 | 640.4 | 585.2 | 513.4 | 435.3 | 357.8 | 276.5 | 17.2 |
| 35°   | 708.7 | 702.9 | 678.0 | 649.0 | 599.5 | 543.0 | 471.7 | 395.9 | 315.2 | 242.8 | 15.1 |
| 36°   | 667.2 | 658.3 | 629.9 | 599.2 | 551.1 | 490.1 | 419.7 | 348.5 | 278.5 | 211.2 | 12.8 |
| 37°   | 606.9 | 593.3 | 573.1 | 540.8 | 484.5 | 432.5 | 368.2 | 302.2 | 233.3 | 177.1 | 10.4 |
| 38°   | 536.1 | 529.7 | 501.7 | 469.1 | 422.6 | 373.3 | 309.7 | 253.6 | 192.5 | 147.9 | 7.9  |
| 39°   | 452.5 | 452.4 | 425.6 | 402.1 | 356.5 | 312.1 | 254.8 | 205.9 | 158.9 | 119.1 | 6.1  |
| 40°   | 381.6 | 368.5 | 352.0 | 322.4 | 287.5 | 249.7 | 199.5 | 161.1 | 123.3 | 96.0  | 4.8  |
| 42.5° | 200.1 | 199.0 | 189.3 | 167.1 | 147.5 | 125.3 | 99.7  | 83.0  | 64.9  | 52.9  | 3.0  |
| 45°   | 85.9  | 86.5  | 79.8  | 76.4  | 68.9  | 59.6  | 50.3  | 42.0  | 35.9  | 29.1  | 1.8  |
| 47.5° | 21.8  | 20.9  | 20.6  | 21.4  | 21.4  | 20.8  | 18.6  | 17.5  | 16.2  | 14.8  | 1.0  |
| 50°   | 9.4   | 9.2   | 8.9   | 8.9   | 8.4   | 8.0   | 7.5   | 6.8   | 6.2   | 5.6   | 0.4  |
| 52.5° | 3.5   | 3.6   | 3.7   | 3.6   | 3.6   | 3.5   | 3.5   | 3.3   | 3.0   | 2.7   | 0.2  |
| 55°   | 1.1   | 1.1   | 1.1   | 1.2   | 1.2   | 1.3   | 1.3   | 1.3   | 1.3   | 1.2   | 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: P1334429

CATALOG NUMBER: P3A02R209735DE010 E3A301WH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 4.2   | 4.2 | 4.2    | 4.2  | 4.2    | 4.2  |
| 2.5°  | 4.9   | 4.4 | 3.7    | 3.1  | 3.0    | 2.9  |
| 5°    | 5.5   | 4.0 | 3.0    | 2.5  | 2.2    | 2.1  |
| 7.5°  | 5.9   | 3.7 | 2.5    | 1.8  | 1.6    | 1.5  |
| 10°   | 6.1   | 3.2 | 2.0    | 1.3  | 1.0    | 1.0  |
| 12.5° | 6.2   | 2.8 | 1.5    | 0.9  | 0.6    | 0.6  |
| 15°   | 6.1   | 2.3 | 1.1    | 0.4  | 0.1    | 0.1  |
| 17.5° | 5.6   | 1.9 | 0.7    | 0.1  | 0.0    | 0.0  |
| 20°   | 4.8   | 1.6 | 0.4    | 0.0  | 0.0    | 0.0  |
| 21°   | 4.6   | 1.3 | 0.3    | 0.0  | 0.0    | 0.0  |
| 22°   | 4.2   | 1.2 | 0.2    | 0.0  | 0.0    | 0.0  |
| 23°   | 3.9   | 1.1 | 0.2    | 0.0  | 0.0    | 0.0  |
| 24°   | 3.6   | 1.0 | 0.1    | 0.0  | 0.0    | 0.0  |
| 25°   | 3.3   | 0.9 | 0.1    | 0.0  | 0.0    | 0.0  |
| 26°   | 3.1   | 0.8 | 0.1    | 0.0  | 0.0    | 0.0  |
| 27°   | 2.8   | 0.7 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 2.6   | 0.6 | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 2.2   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 1.9   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 1.6   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 1.3   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 1.1   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 1.0   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 0.9   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 0.7   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 37°   | 0.6   | 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    | 0.6  |
| 60°   | 0.2   | 0.3 | 0.3    | 0.3  | 0.6    | 0.6  |
| 62.5° | 0.2   | 0.3 | 0.4    | 0.4  | 0.6    | 0.7  |
| 65°   | 0.2   | 0.4 | 0.4    | 0.4  | 0.6    | 0.7  |
| 67.5° | 0.3   | 0.4 | 0.4    | 0.4  | 0.6    | 0.7  |
| 70°   | 0.3   | 0.4 | 0.4    | 0.4  | 0.6    | 0.6  |
| 72.5° | 0.3   | 0.4 | 0.3    | 0.4  | 0.4    | 0.6  |
| 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: P1334429

CATALOG NUMBER: P3A02R209735DE010 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 | 0.2    | 0.1  | 0.0    | 0.1  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)