

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: P1334367

Luminaire Tested: P3A02R209040DE010 E3A301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334367  
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: P3A02R209040DE010 E3A301MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , E3A301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

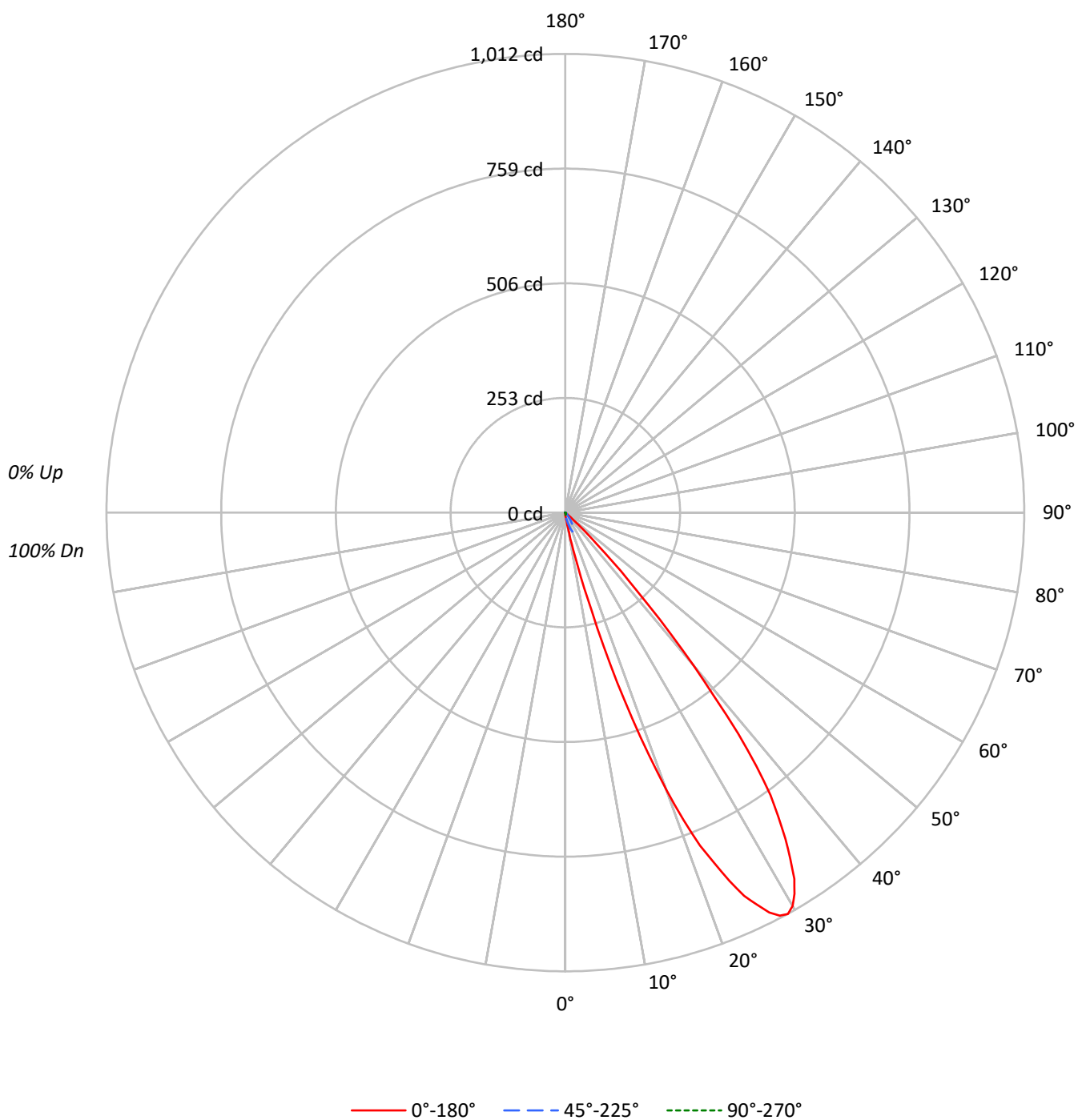
Lumens per Lamp: N/A  
Luminaire Lumens: 142.0 lumens  
Efficiency: N/A  
Efficacy: 39.4 lumens/watt  
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1334367

CATALOG NUMBER: P3A02R209040DE010 E3A301MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1334367

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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°  | 1074   | 1074  | 1074 | 1074 | 1074 |
| 5°  | 2465   | 1849  | 1013 | 616  | 528  |
| 10° | 7771   | 3206  | 824  | 334  | 267  |
| 15° | 50352  | 5948  | 613  | 114  | 23   |
| 20° | 152007 | 10151 | 420  | 0    | 0    |
| 25° | 225739 | 10259 | 242  | 0    | 0    |
| 30° | 253837 | 7799  | 101  | 0    | 0    |
| 35° | 219026 | 4658  | 80   | 0    | 0    |
| 40° | 126122 | 1574  | 0    | 0    | 0    |
| 45° | 30763  | 651   | 31   | 0    | 31   |
| 50° | 3684   | 171   | 34   | 34   | 136  |
| 55° | 497    | 0     | 115  | 115  | 191  |
| 60° | 44     | 0     | 175  | 175  | 263  |
| 65° | 52     | 52    | 259  | 259  | 415  |
| 70° | 64     | 64    | 321  | 321  | 385  |
| 75° | 0      | 85    | 424  | 339  | 424  |
| 80° | 0      | 126   | 505  | 379  | 505  |
| 85° | 0      | 252   | 1006 | 252  | 252  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 30949 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.7    | 0.5       |
| 10°-20°   | 13.2   | 9.3       |
| 20°-30°   | 57.4   | 40.4      |
| 30°-40°   | 57.8   | 40.7      |
| 40°-50°   | 11.6   | 8.2       |
| 50°-60°   | 0.6    | 0.4       |
| 60°-70°   | 0.4    | 0.3       |
| 70°-80°   | 0.3    | 0.2       |
| 80°-90°   | 0.2    | 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°    | 71.2   | 50.1      |
| 0°-40°    | 128.9  | 90.8      |
| 0°-60°    | 141.1  | 99.4      |
| 0°-90°    | 142.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 142.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 5   | 5   | 5   | 5    | 5    |      |
| 5°  | 11  | 8   | 5   | 3    | 2    | 2    |
| 15° | 222 | 26  | 3   | 0    | 0    | 87   |
| 25° | 933 | 42  | 1   | 0    | 0    | 421  |
| 35° | 818 | 17  | 0   | 0    | 0    | 487  |
| 45° | 99  | 2   | 0   | 0    | 0    | 108  |
| 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°    | 4.9    | 4.9   | 4.9   | 4.9   | 4.9   | 4.9   | 4.9   | 4.9   | 4.9   | 4.9   | 4.9  |
| 2.5°  | 7.3    | 7.3   | 7.2   | 7.2   | 7.1   | 7.2   | 7.0   | 7.1   | 7.1   | 7.0   | 6.3  |
| 5°    | 11.2   | 11.5  | 11.3  | 11.3  | 11.2  | 11.3  | 11.1  | 10.8  | 10.6  | 10.6  | 8.4  |
| 7.5°  | 18.4   | 18.3  | 18.0  | 18.2  | 17.8  | 17.5  | 17.3  | 17.1  | 16.4  | 16.0  | 11.0 |
| 10°   | 34.9   | 35.7  | 35.0  | 34.9  | 32.6  | 32.5  | 30.9  | 28.7  | 26.8  | 25.8  | 14.4 |
| 12.5° | 96.1   | 100.2 | 93.8  | 90.7  | 88.9  | 81.9  | 79.0  | 71.4  | 64.0  | 58.5  | 18.3 |
| 15°   | 221.8  | 232.0 | 219.0 | 219.9 | 209.1 | 189.2 | 171.9 | 156.9 | 139.3 | 121.5 | 26.2 |
| 17.5° | 434.7  | 426.4 | 419.3 | 407.4 | 385.3 | 356.2 | 318.7 | 280.7 | 247.9 | 213.5 | 36.5 |
| 20°   | 651.4  | 644.0 | 627.9 | 601.8 | 573.7 | 530.5 | 485.9 | 428.9 | 373.6 | 321.8 | 43.5 |
| 21°   | 725.9  | 723.5 | 697.1 | 681.0 | 637.7 | 596.5 | 545.1 | 484.0 | 421.8 | 360.5 | 44.7 |
| 22°   | 792.5  | 777.9 | 763.7 | 739.9 | 696.8 | 652.0 | 594.8 | 530.5 | 463.0 | 394.9 | 44.8 |
| 23°   | 838.7  | 832.0 | 818.6 | 791.6 | 748.9 | 696.2 | 635.9 | 568.6 | 497.5 | 419.2 | 44.4 |
| 24°   | 889.7  | 881.2 | 861.6 | 830.2 | 787.0 | 735.0 | 666.2 | 599.4 | 522.1 | 439.7 | 43.4 |
| 25°   | 933.0  | 919.7 | 896.5 | 862.6 | 815.5 | 761.8 | 692.6 | 619.3 | 539.3 | 453.5 | 42.4 |
| 26°   | 961.1  | 953.8 | 924.1 | 887.2 | 836.7 | 781.3 | 710.7 | 634.5 | 550.4 | 459.8 | 40.7 |
| 27°   | 990.3  | 977.0 | 947.8 | 905.4 | 850.6 | 794.1 | 721.0 | 641.8 | 554.2 | 460.0 | 38.6 |
| 28°   | 1007.0 | 992.6 | 959.5 | 914.9 | 859.7 | 801.2 | 727.0 | 644.1 | 553.4 | 456.0 | 36.2 |
| 29°   | 1012.3 | 994.2 | 961.8 | 916.5 | 861.9 | 801.7 | 726.1 | 640.8 | 546.6 | 446.3 | 33.4 |
| 30°   | 1002.5 | 984.0 | 953.3 | 909.1 | 854.9 | 795.3 | 717.7 | 629.7 | 534.5 | 432.2 | 30.8 |
| 31°   | 981.2  | 965.4 | 935.8 | 891.5 | 839.4 | 780.2 | 698.8 | 611.5 | 513.9 | 413.4 | 27.8 |
| 32°   | 952.9  | 937.5 | 908.4 | 868.3 | 815.4 | 755.6 | 672.9 | 583.2 | 489.7 | 385.3 | 24.9 |
| 33°   | 910.6  | 901.7 | 875.5 | 837.3 | 784.3 | 720.4 | 638.1 | 549.3 | 455.1 | 354.1 | 22.3 |
| 34°   | 867.7  | 856.4 | 838.2 | 796.3 | 739.3 | 675.6 | 592.7 | 502.6 | 413.0 | 319.2 | 19.8 |
| 35°   | 818.2  | 811.5 | 782.8 | 749.3 | 692.1 | 626.9 | 544.6 | 457.1 | 363.9 | 280.3 | 17.4 |
| 36°   | 770.3  | 760.0 | 727.2 | 691.8 | 636.3 | 565.8 | 484.5 | 402.3 | 321.6 | 243.9 | 14.8 |
| 37°   | 700.7  | 685.0 | 661.7 | 624.3 | 559.4 | 499.3 | 425.1 | 348.9 | 269.4 | 204.4 | 12.0 |
| 38°   | 618.9  | 611.5 | 579.2 | 541.6 | 487.9 | 430.9 | 357.5 | 292.8 | 222.2 | 170.7 | 9.1  |
| 39°   | 522.4  | 522.3 | 491.3 | 464.2 | 411.6 | 360.3 | 294.1 | 237.7 | 183.5 | 137.5 | 7.1  |
| 40°   | 440.6  | 425.4 | 406.3 | 372.2 | 331.9 | 288.3 | 230.3 | 186.0 | 142.4 | 110.8 | 5.5  |
| 42.5° | 231.0  | 229.7 | 218.5 | 192.9 | 170.3 | 144.7 | 115.0 | 95.8  | 75.0  | 61.1  | 3.5  |
| 45°   | 99.2   | 99.8  | 92.1  | 88.2  | 79.5  | 68.8  | 58.1  | 48.4  | 41.5  | 33.6  | 2.1  |
| 47.5° | 25.1   | 24.1  | 23.8  | 24.7  | 24.7  | 24.0  | 21.5  | 20.2  | 18.7  | 17.1  | 1.2  |
| 50°   | 10.8   | 10.6  | 10.3  | 10.3  | 9.7   | 9.3   | 8.6   | 7.9   | 7.2   | 6.4   | 0.5  |
| 52.5° | 4.0    | 4.1   | 4.3   | 4.1   | 4.1   | 4.0   | 4.0   | 3.9   | 3.5   | 3.1   | 0.3  |
| 55°   | 1.3    | 1.3   | 1.3   | 1.4   | 1.4   | 1.5   | 1.5   | 1.5   | 1.5   | 1.4   | 0.0  |
| 57.5° | 0.3    | 0.3   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.5   | 0.5   | 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: P1334367

CATALOG NUMBER: P3A02R209040DE010 E3A301MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 4.9   | 4.9 | 4.9    | 4.9  | 4.9    | 4.9  |
| 2.5°  | 5.7   | 5.0 | 4.3    | 3.6  | 3.5    | 3.3  |
| 5°    | 6.3   | 4.6 | 3.5    | 2.8  | 2.6    | 2.4  |
| 7.5°  | 6.8   | 4.3 | 2.8    | 2.1  | 1.8    | 1.7  |
| 10°   | 7.1   | 3.7 | 2.3    | 1.5  | 1.2    | 1.2  |
| 12.5° | 7.2   | 3.2 | 1.7    | 1.0  | 0.6    | 0.6  |
| 15°   | 7.1   | 2.7 | 1.3    | 0.5  | 0.1    | 0.1  |
| 17.5° | 6.4   | 2.2 | 0.8    | 0.1  | 0.0    | 0.0  |
| 20°   | 5.5   | 1.8 | 0.5    | 0.0  | 0.0    | 0.0  |
| 21°   | 5.3   | 1.5 | 0.4    | 0.0  | 0.0    | 0.0  |
| 22°   | 4.9   | 1.4 | 0.3    | 0.0  | 0.0    | 0.0  |
| 23°   | 4.5   | 1.3 | 0.3    | 0.0  | 0.0    | 0.0  |
| 24°   | 4.1   | 1.2 | 0.1    | 0.0  | 0.0    | 0.0  |
| 25°   | 3.9   | 1.0 | 0.1    | 0.0  | 0.0    | 0.0  |
| 26°   | 3.6   | 0.9 | 0.1    | 0.0  | 0.0    | 0.0  |
| 27°   | 3.2   | 0.8 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 3.0   | 0.6 | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 2.6   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 2.2   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 1.8   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 1.5   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 1.3   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 1.2   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 1.0   | 0.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 0.8   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 37°   | 0.6   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 38°   | 0.5   | 0.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 39°   | 0.4   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 0.4   | 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    | 0.3  |
| 50°   | 0.0   | 0.1 | 0.1    | 0.1  | 0.3    | 0.4  |
| 52.5° | 0.0   | 0.3 | 0.1    | 0.1  | 0.4    | 0.4  |
| 55°   | 0.1   | 0.3 | 0.1    | 0.3  | 0.5    | 0.5  |
| 57.5° | 0.1   | 0.3 | 0.3    | 0.4  | 0.5    | 0.6  |
| 60°   | 0.3   | 0.4 | 0.4    | 0.4  | 0.6    | 0.6  |
| 62.5° | 0.3   | 0.4 | 0.5    | 0.5  | 0.6    | 0.8  |
| 65°   | 0.3   | 0.5 | 0.5    | 0.5  | 0.6    | 0.8  |
| 67.5° | 0.4   | 0.5 | 0.5    | 0.5  | 0.6    | 0.8  |
| 70°   | 0.4   | 0.5 | 0.5    | 0.5  | 0.6    | 0.6  |
| 72.5° | 0.4   | 0.5 | 0.4    | 0.5  | 0.5    | 0.6  |
| 75°   | 0.4   | 0.5 | 0.4    | 0.4  | 0.5    | 0.5  |
| 77.5° | 0.3   | 0.4 | 0.4    | 0.3  | 0.4    | 0.4  |
| 80°   | 0.3   | 0.4 | 0.3    | 0.3  | 0.4    | 0.4  |



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CATALOG NUMBER: P3A02R209040DE010 E3A301MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.3   | 0.4 | 0.3    | 0.1  | 0.3    | 0.3  |
| 85°   | 0.3   | 0.4 | 0.3    | 0.1  | 0.1    | 0.1  |
| 87.5° | 0.3   | 0.4 | 0.3    | 0.1  | 0.0    | 0.1  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)