

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: P1334352

Luminaire Tested: P3A02R209035DE010 E3A301LI

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334352  
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: P3A02R209035DE010 E3A301LI  
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , E3A301LI TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

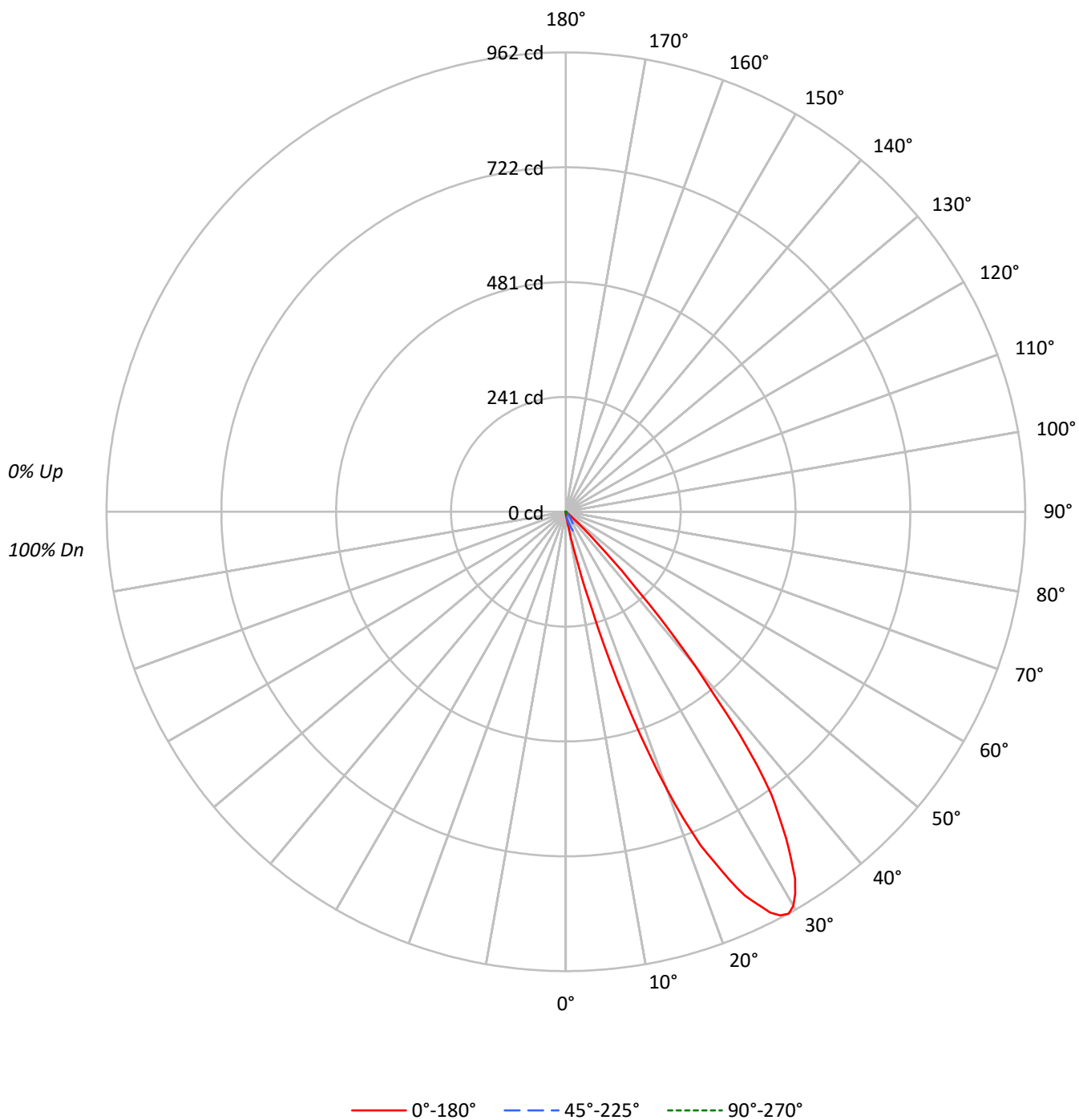
Lumens per Lamp: N/A  
Luminaire Lumens: 135.0 lumens  
Efficiency: N/A  
Efficacy: 37.5 lumens/watt  
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

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CATALOG NUMBER: P3A02R209035DE010 E3A301LI

### 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  | 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°  | 1031   | 1031 | 1031 | 1031 | 1031 |
| 5°  | 2355   | 1761 | 969  | 594  | 506  |
| 10° | 7392   | 3050 | 802  | 334  | 245  |
| 15° | 47878  | 5653 | 590  | 114  | 23   |
| 20° | 144493 | 9661 | 397  | 0    | 0    |
| 25° | 214609 | 9751 | 242  | 0    | 0    |
| 30° | 241328 | 7419 | 101  | 0    | 0    |
| 35° | 208238 | 4417 | 54   | 0    | 0    |
| 40° | 119910 | 1517 | 0    | 0    | 0    |
| 45° | 29243  | 620  | 31   | 0    | 31   |
| 50° | 3514   | 171  | 34   | 34   | 136  |
| 55° | 459    | 0    | 76   | 76   | 191  |
| 60° | 44     | 0    | 175  | 175  | 263  |
| 65° | 52     | 52   | 259  | 259  | 363  |
| 70° | 64     | 64   | 321  | 321  | 385  |
| 75° | 0      | 85   | 424  | 339  | 424  |
| 80° | 0      | 126  | 505  | 253  | 505  |
| 85° | 0      | 252  | 1006 | 252  | 252  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 29429 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.6    | 0.5       |
| 10°-20°   | 12.5   | 9.3       |
| 20°-30°   | 54.5   | 40.4      |
| 30°-40°   | 54.9   | 40.7      |
| 40°-50°   | 11.0   | 8.2       |
| 50°-60°   | 0.5    | 0.4       |
| 60°-70°   | 0.4    | 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°    | 67.7   | 50.1      |
| 0°-40°    | 122.6  | 90.8      |
| 0°-60°    | 134.1  | 99.4      |
| 0°-90°    | 135.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 135.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 5   | 5   | 5   | 5    | 5    |      |
| 5°  | 11  | 8   | 4   | 3    | 2    | 2    |
| 15° | 211 | 25  | 3   | 0    | 0    | 83   |
| 25° | 887 | 40  | 1   | 0    | 0    | 400  |
| 35° | 778 | 16  | 0   | 0    | 0    | 463  |
| 45° | 94  | 2   | 0   | 0    | 0    | 103  |
| 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°    | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7  |
| 2.5°  | 7.0   | 7.0   | 6.9   | 6.9   | 6.7   | 6.9   | 6.6   | 6.7   | 6.7   | 6.6   | 6.0  |
| 5°    | 10.7  | 10.9  | 10.8  | 10.8  | 10.7  | 10.8  | 10.5  | 10.3  | 10.0  | 10.0  | 8.0  |
| 7.5°  | 17.5  | 17.4  | 17.1  | 17.3  | 16.9  | 16.7  | 16.4  | 16.3  | 15.6  | 15.2  | 10.4 |
| 10°   | 33.2  | 33.9  | 33.3  | 33.2  | 31.0  | 30.9  | 29.4  | 27.3  | 25.5  | 24.5  | 13.7 |
| 12.5° | 91.4  | 95.3  | 89.2  | 86.2  | 84.5  | 77.9  | 75.1  | 67.9  | 60.9  | 55.6  | 17.4 |
| 15°   | 210.9 | 220.6 | 208.2 | 209.1 | 198.8 | 179.9 | 163.4 | 149.2 | 132.4 | 115.5 | 24.9 |
| 17.5° | 413.2 | 405.4 | 398.7 | 387.3 | 366.3 | 338.6 | 303.0 | 266.9 | 235.6 | 202.9 | 34.7 |
| 20°   | 619.2 | 612.3 | 597.0 | 572.1 | 545.4 | 504.4 | 462.0 | 407.7 | 355.2 | 305.9 | 41.4 |
| 21°   | 690.2 | 687.8 | 662.7 | 647.4 | 606.3 | 567.1 | 518.2 | 460.1 | 401.0 | 342.7 | 42.5 |
| 22°   | 753.5 | 739.5 | 726.0 | 703.4 | 662.5 | 619.9 | 565.5 | 504.4 | 440.2 | 375.4 | 42.6 |
| 23°   | 797.3 | 791.0 | 778.2 | 752.6 | 712.0 | 661.9 | 604.5 | 540.6 | 473.0 | 398.5 | 42.3 |
| 24°   | 845.8 | 837.7 | 819.1 | 789.2 | 748.2 | 698.7 | 633.3 | 569.9 | 496.4 | 418.0 | 41.3 |
| 25°   | 887.0 | 874.4 | 852.3 | 820.1 | 775.3 | 724.2 | 658.4 | 588.7 | 512.7 | 431.1 | 40.3 |
| 26°   | 913.7 | 906.8 | 878.5 | 843.5 | 795.5 | 742.8 | 675.7 | 603.2 | 523.2 | 437.1 | 38.7 |
| 27°   | 941.5 | 928.9 | 901.1 | 860.8 | 808.7 | 754.9 | 685.5 | 610.2 | 526.9 | 437.4 | 36.7 |
| 28°   | 957.4 | 943.7 | 912.2 | 869.8 | 817.3 | 761.7 | 691.1 | 612.4 | 526.2 | 433.6 | 34.4 |
| 29°   | 962.4 | 945.2 | 914.4 | 871.3 | 819.4 | 762.2 | 690.3 | 609.2 | 519.7 | 424.3 | 31.7 |
| 30°   | 953.1 | 935.5 | 906.3 | 864.3 | 812.8 | 756.1 | 682.3 | 598.7 | 508.2 | 410.9 | 29.3 |
| 31°   | 932.8 | 917.8 | 889.7 | 847.5 | 798.1 | 741.7 | 664.3 | 581.4 | 488.6 | 393.0 | 26.5 |
| 32°   | 906.0 | 891.3 | 863.6 | 825.5 | 775.2 | 718.3 | 639.7 | 554.5 | 465.5 | 366.3 | 23.6 |
| 33°   | 865.7 | 857.2 | 832.4 | 796.0 | 745.6 | 684.9 | 606.6 | 522.2 | 432.7 | 336.7 | 21.2 |
| 34°   | 824.9 | 814.2 | 796.8 | 757.0 | 702.9 | 642.3 | 563.5 | 477.8 | 392.7 | 303.5 | 18.9 |
| 35°   | 777.9 | 771.5 | 744.2 | 712.3 | 657.9 | 596.0 | 517.7 | 434.5 | 346.0 | 266.5 | 16.5 |
| 36°   | 732.3 | 722.5 | 691.4 | 657.7 | 604.9 | 537.9 | 460.6 | 382.5 | 305.7 | 231.8 | 14.1 |
| 37°   | 666.2 | 651.2 | 629.0 | 593.5 | 531.8 | 474.7 | 404.2 | 331.7 | 256.1 | 194.4 | 11.4 |
| 38°   | 588.4 | 581.4 | 550.7 | 514.9 | 463.8 | 409.7 | 339.9 | 278.4 | 211.3 | 162.3 | 8.7  |
| 39°   | 496.6 | 496.5 | 467.1 | 441.3 | 391.3 | 342.6 | 279.6 | 226.0 | 174.4 | 130.7 | 6.7  |
| 40°   | 418.9 | 404.4 | 386.3 | 353.8 | 315.5 | 274.1 | 219.0 | 176.9 | 135.3 | 105.3 | 5.3  |
| 42.5° | 219.6 | 218.4 | 207.7 | 183.3 | 161.9 | 137.5 | 109.4 | 91.1  | 71.3  | 58.1  | 3.3  |
| 45°   | 94.3  | 94.9  | 87.6  | 83.9  | 75.6  | 65.4  | 55.2  | 46.1  | 39.4  | 32.0  | 2.0  |
| 47.5° | 23.9  | 22.9  | 22.7  | 23.5  | 23.5  | 22.8  | 20.5  | 19.2  | 17.8  | 16.3  | 1.1  |
| 50°   | 10.3  | 10.0  | 9.8   | 9.8   | 9.2   | 8.8   | 8.2   | 7.5   | 6.9   | 6.1   | 0.5  |
| 52.5° | 3.8   | 3.9   | 4.0   | 3.9   | 3.9   | 3.8   | 3.8   | 3.7   | 3.3   | 2.9   | 0.2  |
| 55°   | 1.2   | 1.2   | 1.2   | 1.3   | 1.3   | 1.5   | 1.5   | 1.5   | 1.5   | 1.3   | 0.0  |
| 57.5° | 0.2   | 0.2   | 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: P1334352

CATALOG NUMBER: P3A02R209035DE010 E3A301LI

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 4.7   | 4.7 | 4.7    | 4.7  | 4.7    | 4.7  |
| 2.5°  | 5.4   | 4.8 | 4.0    | 3.4  | 3.3    | 3.2  |
| 5°    | 6.0   | 4.4 | 3.3    | 2.7  | 2.4    | 2.3  |
| 7.5°  | 6.5   | 4.0 | 2.7    | 2.0  | 1.7    | 1.6  |
| 10°   | 6.7   | 3.6 | 2.2    | 1.5  | 1.1    | 1.1  |
| 12.5° | 6.9   | 3.1 | 1.6    | 1.0  | 0.6    | 0.6  |
| 15°   | 6.7   | 2.6 | 1.2    | 0.5  | 0.1    | 0.1  |
| 17.5° | 6.1   | 2.1 | 0.7    | 0.1  | 0.0    | 0.0  |
| 20°   | 5.3   | 1.7 | 0.5    | 0.0  | 0.0    | 0.0  |
| 21°   | 5.0   | 1.5 | 0.4    | 0.0  | 0.0    | 0.0  |
| 22°   | 4.7   | 1.3 | 0.2    | 0.0  | 0.0    | 0.0  |
| 23°   | 4.3   | 1.2 | 0.2    | 0.0  | 0.0    | 0.0  |
| 24°   | 3.9   | 1.1 | 0.1    | 0.0  | 0.0    | 0.0  |
| 25°   | 3.7   | 1.0 | 0.1    | 0.0  | 0.0    | 0.0  |
| 26°   | 3.4   | 0.9 | 0.1    | 0.0  | 0.0    | 0.0  |
| 27°   | 3.1   | 0.7 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 2.8   | 0.6 | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 2.4   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 2.1   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 1.7   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 1.5   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 1.2   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 1.1   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 1.0   | 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°   | 0.5   | 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    | 0.2  |
| 50°   | 0.0   | 0.1 | 0.1    | 0.1  | 0.2    | 0.4  |
| 52.5° | 0.0   | 0.2 | 0.1    | 0.1  | 0.4    | 0.4  |
| 55°   | 0.1   | 0.2 | 0.1    | 0.2  | 0.5    | 0.5  |
| 57.5° | 0.1   | 0.2 | 0.2    | 0.4  | 0.5    | 0.6  |
| 60°   | 0.2   | 0.4 | 0.4    | 0.4  | 0.6    | 0.6  |
| 62.5° | 0.2   | 0.4 | 0.5    | 0.5  | 0.6    | 0.7  |
| 65°   | 0.2   | 0.5 | 0.5    | 0.5  | 0.6    | 0.7  |
| 67.5° | 0.4   | 0.5 | 0.5    | 0.5  | 0.6    | 0.7  |
| 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° | 0.2   | 0.4 | 0.4    | 0.2  | 0.4    | 0.4  |
| 80°   | 0.2   | 0.4 | 0.2    | 0.2  | 0.4    | 0.4  |



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CATALOG NUMBER: P3A02R209035DE010 E3A301LI

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.2   | 0.4 | 0.2    | 0.1  | 0.2    | 0.2  |
| 85°   | 0.2   | 0.4 | 0.2    | 0.1  | 0.1    | 0.1  |
| 87.5° | 0.2   | 0.4 | 0.2    | 0.1  | 0.0    | 0.1  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)