

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: P1334449

Luminaire Tested: P3A02R209740DE010 E3A451LI

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334449  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A02R209740DE010 E3A451LI  
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , E3A451LI TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

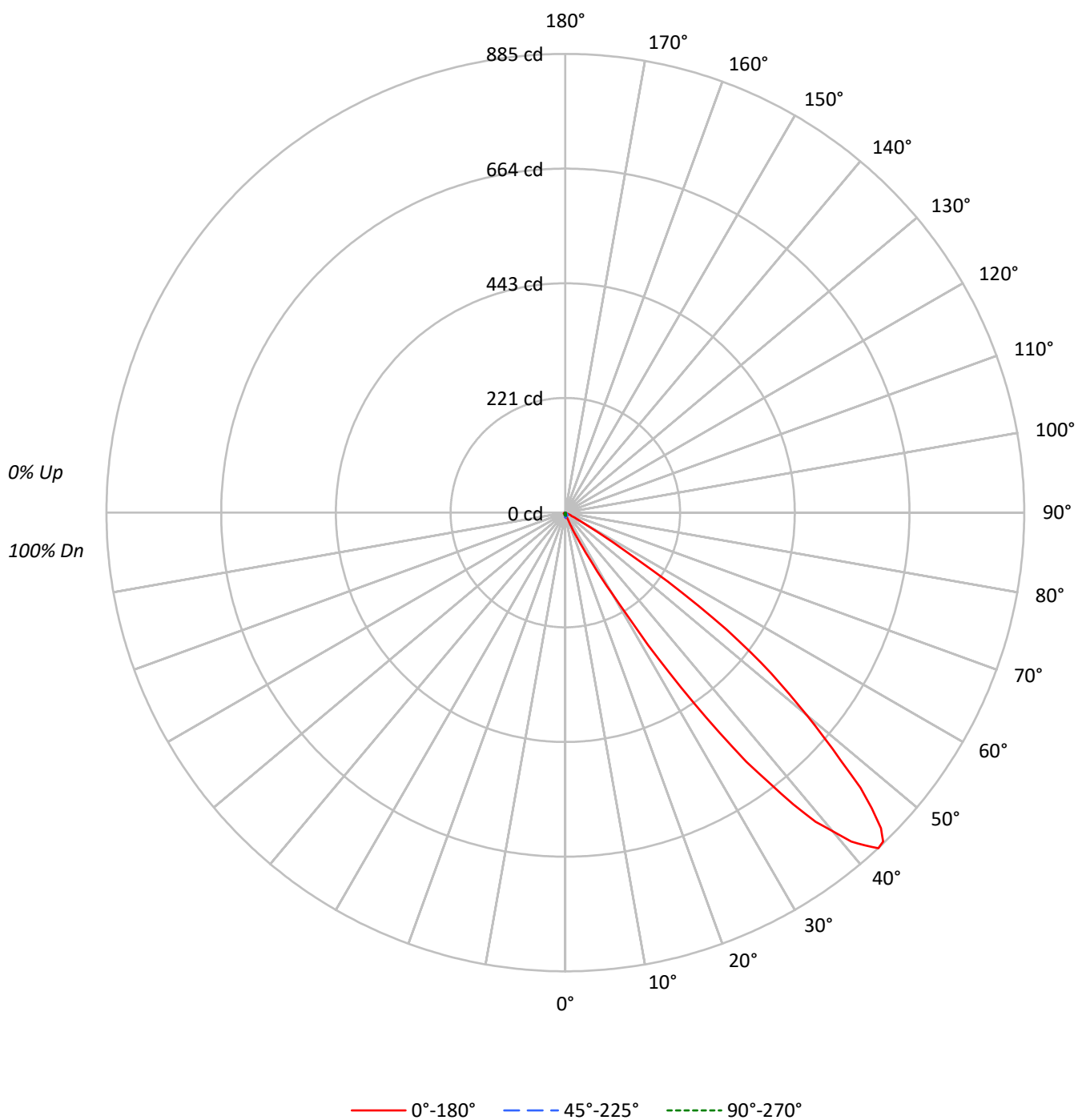
Lumens per Lamp: N/A  
Luminaire Lumens: 123.0 lumens  
Efficiency: N/A  
Efficacy: 34.2 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.14  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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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### 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  |     |    | 0  |
| 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   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 97  | 100 | 97  | 94  | 96  | 94  | 92  | 92  | 91  | 89  | 87  |    |    |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 78  | 75  | 73  |    |    |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 63  | 61  |    |    |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |    |    |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  | 42  |    |    |
| 6   | 68  | 55  | 45  | 39  | 66  | 54  | 45  | 38  | 52  | 44  | 38  | 50  | 43  | 38  | 48  | 42  | 37  | 35  |    |    |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 38  | 32  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 29  |    |    |
| 8   | 57  | 42  | 33  | 27  | 55  | 42  | 33  | 27  | 40  | 33  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 25  |    |    |
| 9   | 52  | 38  | 29  | 23  | 51  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 27  | 23  | 21  |    |    |
| 10  | 48  | 34  | 25  | 20  | 47  | 33  | 25  | 20  | 32  | 25  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 17  |    |    |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 1886   | 1886 | 1886 | 1886 | 1886 |
| 5°  | 2179   | 2025 | 1761 | 1519 | 1475 |
| 10° | 2160   | 1848 | 1381 | 1180 | 1158 |
| 15° | 1884   | 1407 | 1022 | 953  | 999  |
| 20° | 2800   | 1190 | 747  | 817  | 887  |
| 25° | 12073  | 1234 | 581  | 726  | 871  |
| 30° | 45678  | 1494 | 506  | 709  | 861  |
| 35° | 138504 | 1794 | 455  | 723  | 910  |
| 40° | 229659 | 1775 | 401  | 773  | 973  |
| 45° | 266942 | 1209 | 372  | 775  | 1054 |
| 50° | 207209 | 682  | 341  | 819  | 1194 |
| 55° | 119929 | 459  | 344  | 918  | 1300 |
| 60° | 20262  | 88   | 307  | 965  | 1403 |
| 65° | 1557   | 0    | 363  | 1090 | 1608 |
| 70° | 192    | 0    | 449  | 1154 | 1859 |
| 75° | 169    | 85   | 508  | 1356 | 2118 |
| 80° | 126    | 126  | 758  | 1515 | 2526 |
| 85° | 252    | 252  | 1258 | 1510 | 2516 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 266942 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.7    | 0.6       |
| 10°-20°   | 1.5    | 1.2       |
| 20°-30°   | 4.9    | 4.0       |
| 30°-40°   | 31.4   | 25.5      |
| 40°-50°   | 57.4   | 46.7      |
| 50°-60°   | 23.6   | 19.2      |
| 60°-70°   | 2.0    | 1.6       |
| 70°-80°   | 1.0    | 0.8       |
| 80°-90°   | 0.5    | 0.4       |
| 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°    | 7.2    | 5.8       |
| 0°-40°    | 38.6   | 31.3      |
| 0°-60°    | 119.5  | 97.2      |
| 0°-90°    | 123.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 123.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 9   | 9   | 9   | 9    | 9    |      |
| 5°  | 10  | 9   | 8   | 7    | 7    | 1    |
| 15° | 8   | 6   | 4   | 4    | 4    | 3    |
| 25° | 50  | 5   | 2   | 3    | 4    | 33   |
| 35° | 517 | 7   | 2   | 3    | 3    | 327  |
| 45° | 861 | 4   | 1   | 2    | 3    | 618  |
| 55° | 314 | 1   | 1   | 2    | 3    | 274  |
| 65° | 3   | 0   | 1   | 2    | 3    | 10   |
| 75° | 0   | 0   | 1   | 2    | 2    | 0    |
| 85° | 0   | 0   | 0   | 1    | 1    | 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°    | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6   | 8.6 |
| 2.5°  | 9.4   | 9.4   | 9.4   | 9.2   | 9.2   | 9.4   | 9.2   | 9.2   | 9.2   | 9.2   | 9.1 |
| 5°    | 9.9   | 9.9   | 9.9   | 9.9   | 9.9   | 9.9   | 9.9   | 9.8   | 9.8   | 9.7   | 9.2 |
| 7.5°  | 10.2  | 10.2  | 10.2  | 10.2  | 10.1  | 10.1  | 10.1  | 10.1  | 9.9   | 9.8   | 9.0 |
| 10°   | 9.7   | 9.7   | 9.7   | 9.6   | 9.6   | 9.6   | 9.5   | 9.5   | 9.4   | 9.2   | 8.3 |
| 12.5° | 8.8   | 8.8   | 8.8   | 8.8   | 8.7   | 8.7   | 8.6   | 8.6   | 8.4   | 8.3   | 7.3 |
| 15°   | 8.3   | 8.3   | 8.3   | 8.2   | 8.2   | 8.1   | 8.0   | 7.9   | 7.7   | 7.5   | 6.2 |
| 17.5° | 9.0   | 9.0   | 8.9   | 8.9   | 8.7   | 8.4   | 8.3   | 8.0   | 7.7   | 7.4   | 5.5 |
| 20°   | 12.0  | 12.1  | 11.7  | 11.3  | 11.1  | 10.4  | 10.1  | 9.5   | 9.0   | 8.4   | 5.1 |
| 22.5° | 24.3  | 23.8  | 23.0  | 21.7  | 20.2  | 19.0  | 16.6  | 14.8  | 13.5  | 11.8  | 5.0 |
| 25°   | 49.9  | 49.5  | 47.3  | 45.4  | 40.8  | 37.2  | 32.2  | 28.2  | 24.0  | 20.0  | 5.1 |
| 27.5° | 94.9  | 91.8  | 91.2  | 82.8  | 76.3  | 67.0  | 57.4  | 49.4  | 42.0  | 33.8  | 5.4 |
| 30°   | 180.4 | 176.9 | 164.3 | 151.5 | 134.1 | 114.3 | 95.5  | 77.9  | 63.2  | 49.9  | 5.9 |
| 31°   | 229.0 | 232.5 | 217.7 | 192.1 | 166.3 | 141.0 | 115.2 | 92.9  | 74.0  | 57.4  | 6.1 |
| 32°   | 301.0 | 285.9 | 270.3 | 244.0 | 206.6 | 174.2 | 141.8 | 109.7 | 84.7  | 65.5  | 6.4 |
| 33°   | 369.1 | 360.2 | 336.4 | 303.7 | 258.7 | 213.3 | 171.3 | 129.5 | 97.9  | 75.4  | 6.5 |
| 34°   | 441.7 | 431.8 | 412.5 | 365.6 | 316.3 | 256.7 | 200.8 | 152.2 | 113.6 | 85.0  | 6.6 |
| 35°   | 517.4 | 513.2 | 476.0 | 435.3 | 374.6 | 302.8 | 236.3 | 177.2 | 129.0 | 93.7  | 6.7 |
| 36°   | 593.6 | 580.2 | 551.0 | 491.6 | 428.3 | 345.5 | 273.5 | 200.4 | 144.6 | 104.1 | 6.7 |
| 37°   | 650.9 | 647.9 | 609.3 | 551.4 | 476.9 | 391.0 | 305.6 | 226.2 | 160.3 | 113.0 | 6.7 |
| 38°   | 714.1 | 702.2 | 663.0 | 604.1 | 522.7 | 432.8 | 339.3 | 248.6 | 175.2 | 121.1 | 6.6 |
| 39°   | 767.4 | 749.7 | 710.2 | 651.9 | 562.7 | 464.4 | 366.0 | 270.4 | 188.4 | 127.8 | 6.5 |
| 40°   | 802.3 | 790.1 | 748.8 | 683.3 | 599.0 | 494.4 | 393.0 | 288.3 | 198.2 | 132.9 | 6.2 |
| 41°   | 840.8 | 820.5 | 779.7 | 713.8 | 625.3 | 520.7 | 410.0 | 300.1 | 205.9 | 136.3 | 6.0 |
| 42°   | 863.8 | 847.2 | 798.7 | 734.2 | 644.2 | 535.8 | 423.9 | 309.1 | 210.5 | 138.0 | 5.5 |
| 43°   | 885.3 | 862.7 | 815.5 | 746.1 | 656.7 | 546.4 | 430.2 | 313.3 | 211.5 | 138.0 | 5.0 |
| 44°   | 882.4 | 860.9 | 812.0 | 747.8 | 659.4 | 549.5 | 432.9 | 313.4 | 209.9 | 136.3 | 4.4 |
| 45°   | 860.8 | 839.4 | 795.4 | 733.7 | 649.5 | 543.4 | 427.6 | 308.7 | 205.4 | 133.3 | 3.9 |
| 46°   | 821.2 | 799.9 | 766.1 | 710.1 | 631.0 | 529.5 | 415.2 | 298.7 | 197.9 | 128.4 | 3.5 |
| 47°   | 778.0 | 757.4 | 722.8 | 672.0 | 599.5 | 504.8 | 397.3 | 284.6 | 187.4 | 121.4 | 3.1 |
| 48°   | 715.5 | 702.6 | 667.9 | 624.5 | 555.6 | 466.1 | 365.8 | 261.6 | 173.3 | 112.2 | 2.7 |
| 49°   | 660.3 | 646.6 | 616.2 | 569.6 | 498.5 | 421.0 | 328.3 | 233.6 | 154.9 | 102.1 | 2.3 |
| 50°   | 607.4 | 595.5 | 567.4 | 514.8 | 447.0 | 366.5 | 277.5 | 198.4 | 131.8 | 89.5  | 2.0 |
| 51°   | 555.8 | 546.9 | 518.2 | 469.9 | 401.0 | 324.7 | 240.4 | 165.2 | 108.9 | 74.2  | 1.8 |
| 52°   | 503.9 | 502.8 | 471.7 | 422.8 | 356.3 | 283.0 | 204.4 | 139.4 | 92.4  | 62.3  | 1.7 |
| 53°   | 448.0 | 441.3 | 414.2 | 370.2 | 306.3 | 239.5 | 173.3 | 117.6 | 79.5  | 53.1  | 1.5 |
| 54°   | 384.5 | 376.9 | 347.8 | 308.2 | 250.3 | 196.2 | 139.6 | 95.0  | 66.2  | 44.8  | 1.4 |
| 55°   | 313.7 | 300.9 | 279.7 | 239.0 | 195.5 | 149.7 | 107.8 | 75.2  | 52.9  | 37.3  | 1.2 |
| 56°   | 238.0 | 225.2 | 213.3 | 183.3 | 143.4 | 111.7 | 80.3  | 57.7  | 41.4  | 29.5  | 1.0 |
| 57°   | 165.5 | 164.8 | 145.3 | 122.3 | 95.9  | 76.1  | 55.0  | 40.7  | 29.2  | 22.9  | 0.8 |
| 58°   | 107.4 | 103.8 | 91.3  | 78.0  | 62.8  | 47.5  | 35.4  | 27.6  | 19.9  | 15.6  | 0.7 |
| 59°   | 75.2  | 68.1  | 61.4  | 52.0  | 39.5  | 29.9  | 22.8  | 17.7  | 13.8  | 10.9  | 0.5 |
| 60°   | 46.2  | 44.7  | 40.2  | 31.7  | 25.7  | 21.2  | 17.0  | 13.1  | 10.1  | 7.7   | 0.2 |
| 62.5° | 13.2  | 13.4  | 12.1  | 10.7  | 9.2   | 8.0   | 7.2   | 6.1   | 5.1   | 4.0   | 0.0 |
| 65°   | 3.0   | 2.9   | 3.1   | 2.9   | 2.7   | 2.7   | 2.3   | 2.1   | 1.8   | 1.7   | 0.0 |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.9 | 0.9  | 0.8 | 0.8  | 0.8 | 0.7   | 0.7 | 0.6   | 0.6 | 0.5   | 0.0 |
| 70°   | 0.3 | 0.3  | 0.3 | 0.3  | 0.3 | 0.2   | 0.2 | 0.2   | 0.1 | 0.1   | 0.0 |
| 72.5° | 0.3 | 0.3  | 0.3 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.1 | 0.1   | 0.1 |
| 75°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.1   | 0.1 | 0.1   | 0.1 |
| 77.5° | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.1   | 0.2 | 0.1   | 0.1 | 0.1   | 0.1 |
| 80°   | 0.1 | 0.1  | 0.1 | 0.1  | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 |
| 82.5° | 0.1 | 0.1  | 0.1 | 0.1  | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1   | 0.1 |
| 85°   | 0.1 | 0.1  | 0.1 | 0.1  | 0.0 | 0.0   | 0.1 | 0.1   | 0.1 | 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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**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 8.6   | 8.6 | 8.6    | 8.6  | 8.6    | 8.6  |
| 2.5°  | 8.9   | 8.4 | 8.1    | 7.7  | 7.6    | 7.6  |
| 5°    | 8.7   | 8.0 | 7.3    | 6.9  | 6.7    | 6.7  |
| 7.5°  | 8.0   | 7.2 | 6.5    | 6.1  | 6.0    | 6.0  |
| 10°   | 7.2   | 6.2 | 5.5    | 5.3  | 5.3    | 5.2  |
| 12.5° | 6.2   | 5.3 | 4.9    | 4.7  | 4.7    | 4.7  |
| 15°   | 5.2   | 4.5 | 4.2    | 4.2  | 4.3    | 4.4  |
| 17.5° | 4.4   | 3.7 | 3.6    | 3.8  | 4.0    | 4.0  |
| 20°   | 3.7   | 3.2 | 3.2    | 3.5  | 3.7    | 3.8  |
| 22.5° | 3.1   | 2.8 | 2.9    | 3.2  | 3.6    | 3.7  |
| 25°   | 2.8   | 2.4 | 2.7    | 3.0  | 3.4    | 3.6  |
| 27.5° | 2.3   | 2.2 | 2.4    | 2.9  | 3.4    | 3.5  |
| 30°   | 2.0   | 2.0 | 2.3    | 2.8  | 3.2    | 3.4  |
| 31°   | 1.8   | 1.8 | 2.3    | 2.8  | 3.2    | 3.4  |
| 32°   | 1.7   | 1.8 | 2.2    | 2.8  | 3.2    | 3.4  |
| 33°   | 1.6   | 1.7 | 2.2    | 2.7  | 3.2    | 3.4  |
| 34°   | 1.5   | 1.7 | 2.2    | 2.7  | 3.2    | 3.4  |
| 35°   | 1.4   | 1.7 | 2.2    | 2.7  | 3.2    | 3.4  |
| 36°   | 1.3   | 1.6 | 2.1    | 2.7  | 3.2    | 3.4  |
| 37°   | 1.2   | 1.6 | 2.1    | 2.7  | 3.2    | 3.4  |
| 38°   | 1.0   | 1.5 | 2.1    | 2.7  | 3.2    | 3.4  |
| 39°   | 1.0   | 1.5 | 2.0    | 2.7  | 3.1    | 3.4  |
| 40°   | 0.9   | 1.4 | 2.0    | 2.7  | 3.1    | 3.4  |
| 41°   | 0.8   | 1.4 | 2.0    | 2.5  | 3.1    | 3.4  |
| 42°   | 0.7   | 1.3 | 1.8    | 2.5  | 3.1    | 3.4  |
| 43°   | 0.6   | 1.3 | 1.8    | 2.5  | 3.1    | 3.4  |
| 44°   | 0.6   | 1.2 | 1.8    | 2.5  | 3.1    | 3.4  |
| 45°   | 0.5   | 1.2 | 1.8    | 2.5  | 3.1    | 3.4  |
| 46°   | 0.3   | 1.2 | 1.8    | 2.5  | 3.1    | 3.4  |
| 47°   | 0.3   | 1.0 | 1.7    | 2.5  | 3.1    | 3.4  |
| 48°   | 0.2   | 1.0 | 1.7    | 2.5  | 3.1    | 3.4  |
| 49°   | 0.2   | 1.0 | 1.7    | 2.5  | 3.1    | 3.5  |
| 50°   | 0.2   | 1.0 | 1.7    | 2.4  | 3.1    | 3.5  |
| 51°   | 0.1   | 1.0 | 1.7    | 2.4  | 3.1    | 3.5  |
| 52°   | 0.1   | 1.0 | 1.6    | 2.4  | 3.2    | 3.5  |
| 53°   | 0.1   | 0.9 | 1.6    | 2.4  | 3.2    | 3.5  |
| 54°   | 0.1   | 0.9 | 1.6    | 2.4  | 3.2    | 3.4  |
| 55°   | 0.1   | 0.9 | 1.6    | 2.4  | 3.1    | 3.4  |
| 56°   | 0.1   | 0.8 | 1.6    | 2.4  | 3.1    | 3.4  |
| 57°   | 0.1   | 0.8 | 1.5    | 2.3  | 3.1    | 3.2  |
| 58°   | 0.1   | 0.8 | 1.5    | 2.3  | 3.1    | 3.2  |
| 59°   | 0.1   | 0.8 | 1.5    | 2.3  | 3.0    | 3.2  |
| 60°   | 0.2   | 0.7 | 1.4    | 2.2  | 3.0    | 3.2  |
| 62.5° | 0.2   | 0.7 | 1.4    | 2.2  | 2.9    | 3.1  |
| 65°   | 0.2   | 0.7 | 1.3    | 2.1  | 2.9    | 3.1  |



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CATALOG NUMBER: P3A02R209740DE010 E3A451LI

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.2   | 0.6 | 1.2    | 2.0  | 2.8    | 3.0  |
| 70°   | 0.2   | 0.7 | 1.2    | 1.8  | 2.7    | 2.9  |
| 72.5° | 0.3   | 0.6 | 1.0    | 1.7  | 2.5    | 2.8  |
| 75°   | 0.3   | 0.6 | 1.0    | 1.6  | 2.4    | 2.5  |
| 77.5° | 0.5   | 0.6 | 0.9    | 1.4  | 2.2    | 2.3  |
| 80°   | 0.5   | 0.6 | 0.8    | 1.2  | 1.8    | 2.0  |
| 82.5° | 0.5   | 0.6 | 0.6    | 0.9  | 1.4    | 1.5  |
| 85°   | 0.3   | 0.5 | 0.5    | 0.6  | 0.9    | 1.0  |
| 87.5° | 0.3   | 0.5 | 0.3    | 0.2  | 0.5    | 0.5  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)