

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: P1334467

Luminaire Tested: P3A02R209827DE010 E3A451WH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334467  
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: P3A02R209827DE010 E3A451WH  
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3A451WH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

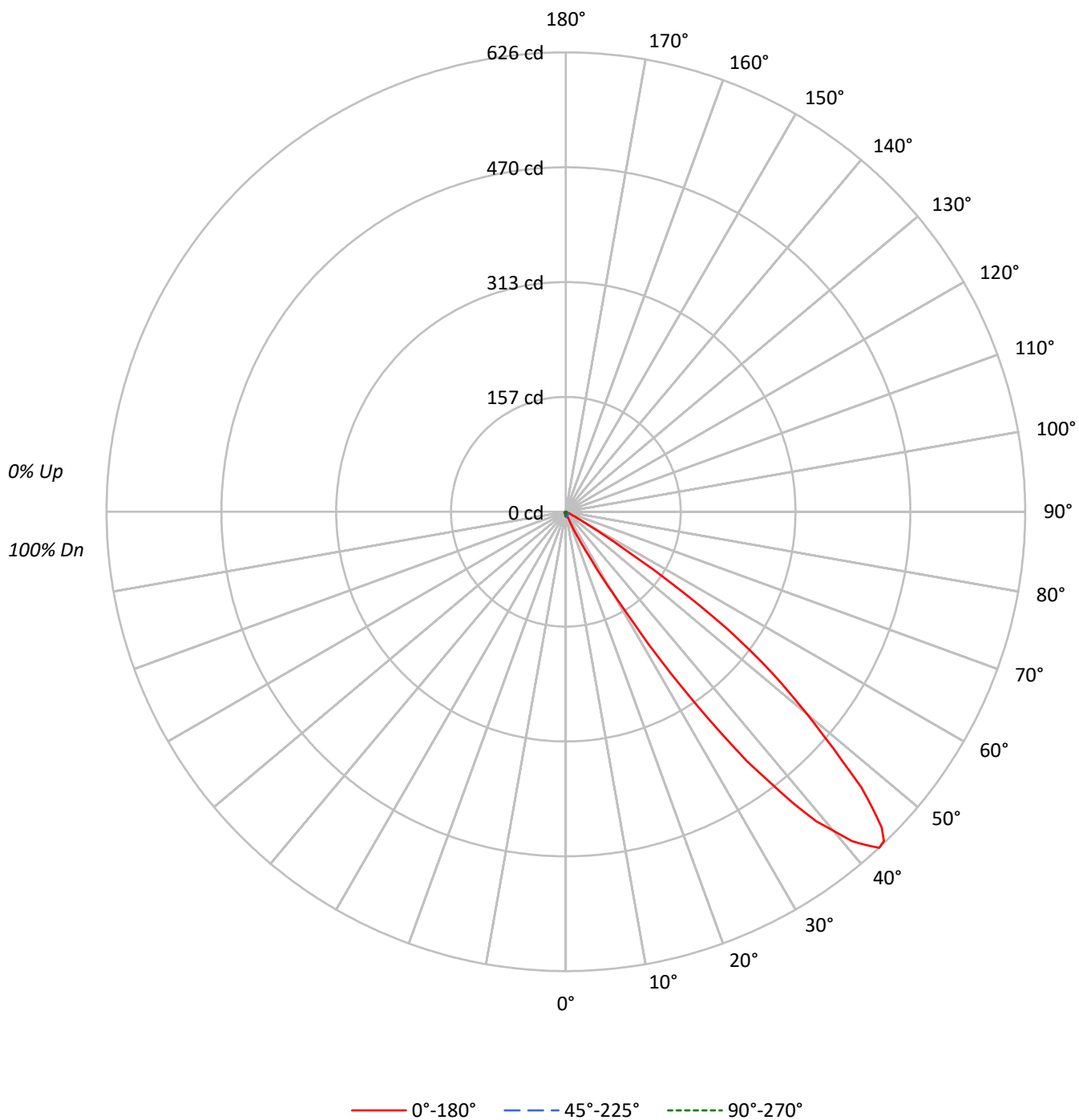
Lumens per Lamp: N/A  
Luminaire Lumens: 87.0 lumens  
Efficiency: N/A  
Efficacy: 24.2 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P3A02R209827DE010 E3A451WH

### 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   | 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°  | 1338   | 1338 | 1338 | 1338 | 1338 |
| 5°  | 1541   | 1431 | 1233 | 1079 | 1035 |
| 10° | 1536   | 1314 | 980  | 846  | 824  |
| 15° | 1339   | 999  | 726  | 658  | 704  |
| 20° | 1984   | 840  | 537  | 583  | 630  |
| 25° | 8541   | 871  | 411  | 508  | 605  |
| 30° | 32309  | 1063 | 354  | 506  | 608  |
| 35° | 97975  | 1258 | 321  | 509  | 642  |
| 40° | 162447 | 1260 | 286  | 544  | 687  |
| 45° | 188826 | 868  | 248  | 558  | 744  |
| 50° | 146554 | 478  | 239  | 580  | 853  |
| 55° | 84833  | 306  | 268  | 650  | 918  |
| 60° | 14341  | 88   | 219  | 702  | 1009 |
| 65° | 1090   | 0    | 259  | 778  | 1141 |
| 70° | 128    | 0    | 321  | 833  | 1282 |
| 75° | 169    | 85   | 339  | 932  | 1525 |
| 80° | 126    | 126  | 505  | 1010 | 1768 |
| 85° | 252    | 252  | 755  | 1006 | 1761 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 188826 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.5    | 0.6       |
| 10°-20°   | 1.1    | 1.3       |
| 20°-30°   | 3.5    | 4.0       |
| 30°-40°   | 22.2   | 25.5      |
| 40°-50°   | 40.6   | 46.7      |
| 50°-60°   | 16.7   | 19.2      |
| 60°-70°   | 1.4    | 1.6       |
| 70°-80°   | 0.7    | 0.8       |
| 80°-90°   | 0.3    | 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°    | 5.1    | 5.8       |
| 0°-40°    | 27.3   | 31.3      |
| 0°-60°    | 84.6   | 97.2      |
| 0°-90°    | 87.0   | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 87.0   | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 6   | 6   | 6   | 6    | 6    |      |
| 5°  | 7   | 6   | 6   | 5    | 5    | 1    |
| 15° | 6   | 4   | 3   | 3    | 3    | 2    |
| 25° | 35  | 4   | 2   | 2    | 2    | 23   |
| 35° | 366 | 5   | 1   | 2    | 2    | 232  |
| 45° | 609 | 3   | 1   | 2    | 2    | 437  |
| 55° | 222 | 1   | 1   | 2    | 2    | 194  |
| 65° | 2   | 0   | 0   | 2    | 2    | 7    |
| 75° | 0   | 0   | 0   | 1    | 2    | 0    |
| 85° | 0   | 0   | 0   | 0    | 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°    | 6.1   | 6.1   | 6.1   | 6.1   | 6.1   | 6.1   | 6.1   | 6.1   | 6.1   | 6.1   | 6.1 |
| 2.5°  | 6.6   | 6.6   | 6.6   | 6.5   | 6.5   | 6.6   | 6.5   | 6.5   | 6.5   | 6.5   | 6.5 |
| 5°    | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   | 6.9   | 6.9   | 6.9   | 6.5 |
| 7.5°  | 7.2   | 7.2   | 7.2   | 7.2   | 7.1   | 7.1   | 7.1   | 7.1   | 7.0   | 6.9   | 6.4 |
| 10°   | 6.9   | 6.9   | 6.9   | 6.8   | 6.8   | 6.8   | 6.7   | 6.7   | 6.6   | 6.5   | 5.9 |
| 12.5° | 6.2   | 6.2   | 6.2   | 6.2   | 6.1   | 6.1   | 6.1   | 6.1   | 6.0   | 5.9   | 5.2 |
| 15°   | 5.9   | 5.9   | 5.9   | 5.8   | 5.8   | 5.7   | 5.6   | 5.6   | 5.5   | 5.3   | 4.4 |
| 17.5° | 6.4   | 6.4   | 6.3   | 6.3   | 6.1   | 6.0   | 5.9   | 5.6   | 5.5   | 5.2   | 3.9 |
| 20°   | 8.5   | 8.6   | 8.3   | 8.0   | 7.8   | 7.4   | 7.1   | 6.7   | 6.4   | 6.0   | 3.6 |
| 22.5° | 17.2  | 16.8  | 16.3  | 15.4  | 14.3  | 13.4  | 11.8  | 10.5  | 9.6   | 8.3   | 3.5 |
| 25°   | 35.3  | 35.0  | 33.4  | 32.1  | 28.9  | 26.3  | 22.8  | 19.9  | 17.0  | 14.1  | 3.6 |
| 27.5° | 67.1  | 64.9  | 64.5  | 58.5  | 54.0  | 47.4  | 40.6  | 34.9  | 29.7  | 23.9  | 3.8 |
| 30°   | 127.6 | 125.1 | 116.2 | 107.2 | 94.8  | 80.9  | 67.5  | 55.1  | 44.7  | 35.3  | 4.2 |
| 31°   | 162.0 | 164.4 | 154.0 | 135.9 | 117.7 | 99.7  | 81.5  | 65.7  | 52.3  | 40.6  | 4.3 |
| 32°   | 212.9 | 202.2 | 191.2 | 172.6 | 146.1 | 123.2 | 100.3 | 77.6  | 59.9  | 46.4  | 4.5 |
| 33°   | 261.1 | 254.8 | 237.9 | 214.8 | 183.0 | 150.8 | 121.2 | 91.6  | 69.3  | 53.3  | 4.6 |
| 34°   | 312.4 | 305.5 | 291.8 | 258.6 | 223.7 | 181.6 | 142.0 | 107.7 | 80.4  | 60.1  | 4.7 |
| 35°   | 366.0 | 363.0 | 336.7 | 307.9 | 265.0 | 214.2 | 167.1 | 125.3 | 91.2  | 66.3  | 4.7 |
| 36°   | 419.8 | 410.4 | 389.7 | 347.7 | 302.9 | 244.4 | 193.4 | 141.8 | 102.3 | 73.7  | 4.7 |
| 37°   | 460.4 | 458.3 | 431.0 | 390.0 | 337.3 | 276.6 | 216.2 | 160.0 | 113.4 | 80.0  | 4.7 |
| 38°   | 505.1 | 496.7 | 469.0 | 427.3 | 369.7 | 306.1 | 240.0 | 175.9 | 123.9 | 85.7  | 4.7 |
| 39°   | 542.8 | 530.3 | 502.3 | 461.1 | 398.0 | 328.5 | 258.9 | 191.2 | 133.3 | 90.4  | 4.6 |
| 40°   | 567.5 | 558.8 | 529.6 | 483.3 | 423.7 | 349.7 | 278.0 | 203.9 | 140.2 | 94.0  | 4.4 |
| 41°   | 594.7 | 580.3 | 551.5 | 504.9 | 442.3 | 368.3 | 290.0 | 212.2 | 145.6 | 96.4  | 4.3 |
| 42°   | 611.0 | 599.2 | 565.0 | 519.3 | 455.6 | 379.0 | 299.8 | 218.6 | 148.9 | 97.6  | 3.9 |
| 43°   | 626.2 | 610.2 | 576.8 | 527.8 | 464.5 | 386.5 | 304.3 | 221.6 | 149.6 | 97.6  | 3.5 |
| 44°   | 624.2 | 608.9 | 574.4 | 528.9 | 466.4 | 388.7 | 306.2 | 221.7 | 148.5 | 96.4  | 3.1 |
| 45°   | 608.9 | 593.7 | 562.6 | 518.9 | 459.4 | 384.4 | 302.4 | 218.4 | 145.3 | 94.3  | 2.8 |
| 46°   | 580.8 | 565.8 | 541.9 | 502.2 | 446.3 | 374.5 | 293.7 | 211.3 | 140.0 | 90.8  | 2.5 |
| 47°   | 550.3 | 535.7 | 511.2 | 475.4 | 424.0 | 357.0 | 281.0 | 201.3 | 132.5 | 85.8  | 2.2 |
| 48°   | 506.1 | 496.9 | 472.4 | 441.7 | 393.0 | 329.7 | 258.8 | 185.0 | 122.6 | 79.4  | 1.9 |
| 49°   | 467.0 | 457.4 | 435.9 | 402.9 | 352.6 | 297.8 | 232.2 | 165.2 | 109.6 | 72.2  | 1.6 |
| 50°   | 429.6 | 421.2 | 401.4 | 364.2 | 316.2 | 259.3 | 196.3 | 140.3 | 93.2  | 63.3  | 1.4 |
| 51°   | 393.1 | 386.8 | 366.5 | 332.4 | 283.6 | 229.7 | 170.1 | 116.8 | 77.0  | 52.5  | 1.3 |
| 52°   | 356.4 | 355.7 | 333.7 | 299.1 | 252.0 | 200.1 | 144.6 | 98.6  | 65.3  | 44.1  | 1.2 |
| 53°   | 316.9 | 312.2 | 292.9 | 261.9 | 216.7 | 169.4 | 122.6 | 83.1  | 56.3  | 37.5  | 1.1 |
| 54°   | 271.9 | 266.6 | 246.0 | 218.0 | 177.0 | 138.7 | 98.8  | 67.2  | 46.8  | 31.7  | 1.0 |
| 55°   | 221.9 | 212.8 | 197.9 | 169.1 | 138.3 | 105.9 | 76.3  | 53.2  | 37.4  | 26.4  | 0.8 |
| 56°   | 168.3 | 159.3 | 150.8 | 129.7 | 101.5 | 79.0  | 56.8  | 40.8  | 29.3  | 20.8  | 0.7 |
| 57°   | 117.1 | 116.6 | 102.8 | 86.5  | 67.9  | 53.8  | 38.9  | 28.8  | 20.7  | 16.2  | 0.6 |
| 58°   | 76.0  | 73.4  | 64.6  | 55.2  | 44.4  | 33.6  | 25.0  | 19.5  | 14.1  | 11.0  | 0.5 |
| 59°   | 53.2  | 48.2  | 43.4  | 36.8  | 28.0  | 21.2  | 16.1  | 12.5  | 9.7   | 7.7   | 0.3 |
| 60°   | 32.7  | 31.6  | 28.5  | 22.4  | 18.2  | 15.0  | 12.0  | 9.2   | 7.1   | 5.5   | 0.2 |
| 62.5° | 9.3   | 9.5   | 8.6   | 7.6   | 6.5   | 5.6   | 5.1   | 4.3   | 3.6   | 2.9   | 0.0 |
| 65°   | 2.1   | 2.0   | 2.2   | 2.0   | 1.9   | 1.9   | 1.6   | 1.5   | 1.3   | 1.2   | 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° | 0.7 | 0.7  | 0.6 | 0.6  | 0.6 | 0.5   | 0.5 | 0.4   | 0.4 | 0.3   | 0.0 |
| 70°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.1 | 0.1   | 0.0 |
| 72.5° | 0.2 | 0.2  | 0.2 | 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°    | 6.1   | 6.1 | 6.1    | 6.1  | 6.1    | 6.1  |
| 2.5°  | 6.3   | 6.0 | 5.7    | 5.5  | 5.4    | 5.4  |
| 5°    | 6.1   | 5.6 | 5.2    | 4.9  | 4.7    | 4.7  |
| 7.5°  | 5.6   | 5.1 | 4.6    | 4.3  | 4.3    | 4.3  |
| 10°   | 5.1   | 4.4 | 3.9    | 3.8  | 3.8    | 3.7  |
| 12.5° | 4.4   | 3.8 | 3.4    | 3.4  | 3.4    | 3.4  |
| 15°   | 3.7   | 3.2 | 2.9    | 2.9  | 3.0    | 3.1  |
| 17.5° | 3.1   | 2.6 | 2.5    | 2.7  | 2.9    | 2.9  |
| 20°   | 2.6   | 2.3 | 2.3    | 2.5  | 2.6    | 2.7  |
| 22.5° | 2.2   | 2.0 | 2.0    | 2.3  | 2.5    | 2.6  |
| 25°   | 2.0   | 1.7 | 1.9    | 2.1  | 2.4    | 2.5  |
| 27.5° | 1.6   | 1.6 | 1.7    | 2.0  | 2.4    | 2.5  |
| 30°   | 1.4   | 1.4 | 1.6    | 2.0  | 2.3    | 2.4  |
| 31°   | 1.3   | 1.3 | 1.6    | 2.0  | 2.3    | 2.4  |
| 32°   | 1.2   | 1.3 | 1.6    | 2.0  | 2.3    | 2.4  |
| 33°   | 1.1   | 1.2 | 1.6    | 1.9  | 2.3    | 2.4  |
| 34°   | 1.1   | 1.2 | 1.6    | 1.9  | 2.3    | 2.4  |
| 35°   | 1.0   | 1.2 | 1.6    | 1.9  | 2.3    | 2.4  |
| 36°   | 0.9   | 1.1 | 1.5    | 1.9  | 2.3    | 2.4  |
| 37°   | 0.8   | 1.1 | 1.5    | 1.9  | 2.3    | 2.4  |
| 38°   | 0.7   | 1.1 | 1.5    | 1.9  | 2.3    | 2.4  |
| 39°   | 0.7   | 1.1 | 1.4    | 1.9  | 2.2    | 2.4  |
| 40°   | 0.7   | 1.0 | 1.4    | 1.9  | 2.2    | 2.4  |
| 41°   | 0.6   | 1.0 | 1.4    | 1.8  | 2.2    | 2.4  |
| 42°   | 0.5   | 0.9 | 1.3    | 1.8  | 2.2    | 2.4  |
| 43°   | 0.4   | 0.9 | 1.3    | 1.8  | 2.2    | 2.4  |
| 44°   | 0.4   | 0.8 | 1.3    | 1.8  | 2.2    | 2.4  |
| 45°   | 0.3   | 0.8 | 1.3    | 1.8  | 2.2    | 2.4  |
| 46°   | 0.2   | 0.8 | 1.3    | 1.8  | 2.2    | 2.4  |
| 47°   | 0.2   | 0.7 | 1.2    | 1.8  | 2.2    | 2.4  |
| 48°   | 0.2   | 0.7 | 1.2    | 1.8  | 2.2    | 2.4  |
| 49°   | 0.2   | 0.7 | 1.2    | 1.8  | 2.2    | 2.5  |
| 50°   | 0.2   | 0.7 | 1.2    | 1.7  | 2.2    | 2.5  |
| 51°   | 0.1   | 0.7 | 1.2    | 1.7  | 2.2    | 2.5  |
| 52°   | 0.1   | 0.7 | 1.1    | 1.7  | 2.3    | 2.5  |
| 53°   | 0.1   | 0.7 | 1.1    | 1.7  | 2.3    | 2.5  |
| 54°   | 0.1   | 0.7 | 1.1    | 1.7  | 2.3    | 2.4  |
| 55°   | 0.1   | 0.7 | 1.1    | 1.7  | 2.2    | 2.4  |
| 56°   | 0.1   | 0.6 | 1.1    | 1.7  | 2.2    | 2.4  |
| 57°   | 0.1   | 0.6 | 1.1    | 1.6  | 2.2    | 2.3  |
| 58°   | 0.1   | 0.6 | 1.1    | 1.6  | 2.2    | 2.3  |
| 59°   | 0.1   | 0.6 | 1.1    | 1.6  | 2.1    | 2.3  |
| 60°   | 0.2   | 0.5 | 1.0    | 1.6  | 2.1    | 2.3  |
| 62.5° | 0.2   | 0.5 | 1.0    | 1.6  | 2.0    | 2.2  |
| 65°   | 0.2   | 0.5 | 0.9    | 1.5  | 2.0    | 2.2  |





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CATALOG NUMBER: P3A02R209827DE010 E3A451WH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.2   | 0.4 | 0.8    | 1.4  | 2.0    | 2.1  |
| 70°   | 0.2   | 0.5 | 0.8    | 1.3  | 1.9    | 2.0  |
| 72.5° | 0.2   | 0.4 | 0.7    | 1.2  | 1.8    | 2.0  |
| 75°   | 0.2   | 0.4 | 0.7    | 1.1  | 1.7    | 1.8  |
| 77.5° | 0.3   | 0.4 | 0.7    | 1.0  | 1.6    | 1.6  |
| 80°   | 0.3   | 0.4 | 0.6    | 0.8  | 1.3    | 1.4  |
| 82.5° | 0.3   | 0.4 | 0.4    | 0.7  | 1.0    | 1.1  |
| 85°   | 0.2   | 0.3 | 0.3    | 0.4  | 0.7    | 0.7  |
| 87.5° | 0.2   | 0.3 | 0.2    | 0.2  | 0.3    | 0.3  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)