

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: P1334578

Luminaire Tested: P3A02R20B2750DE010 E3A451LI\_3000K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334578  
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: P3A02R20B2750DE010 E3A451LI\_3000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3A451LI TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

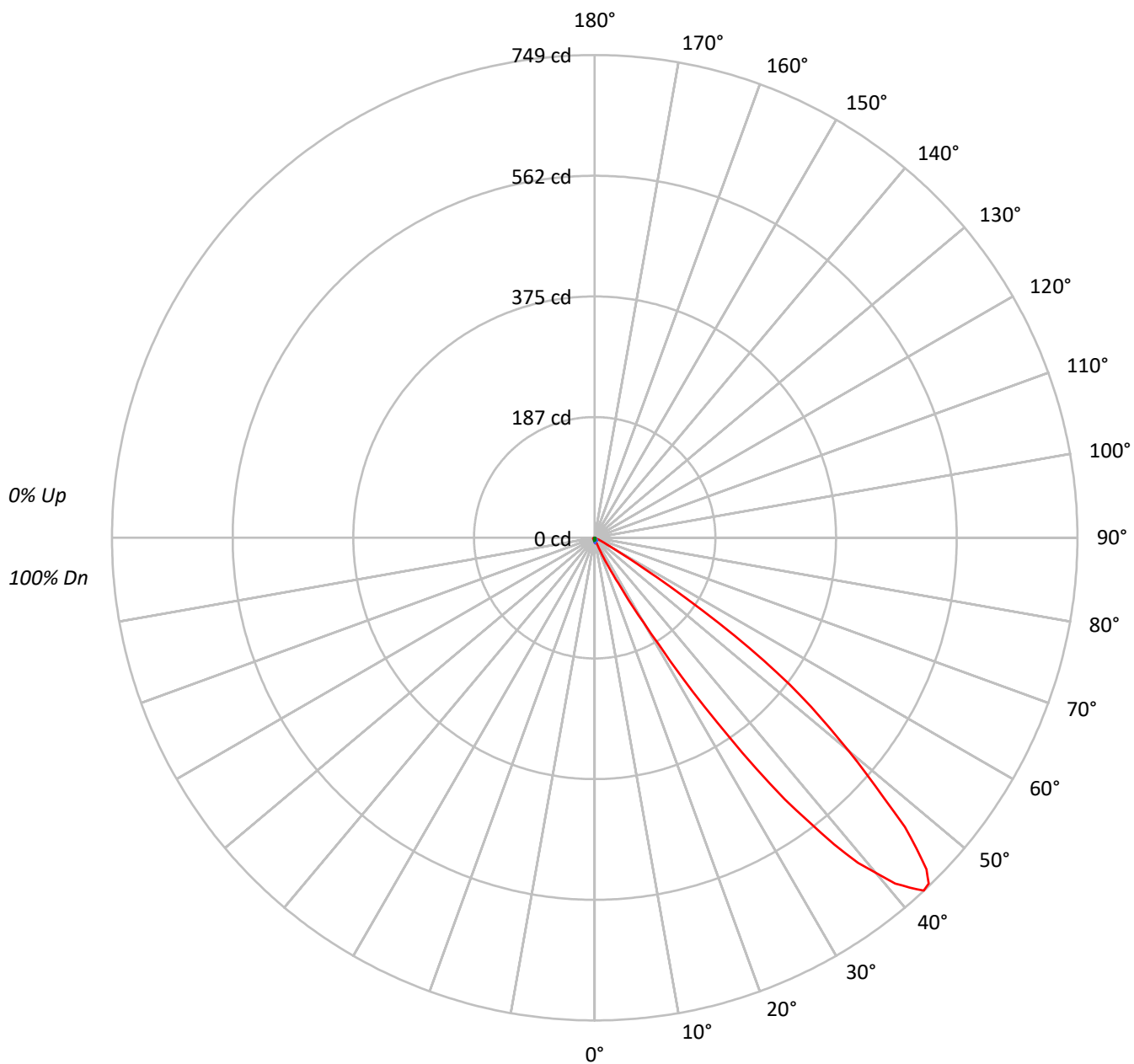
Lumens per Lamp: N/A  
Luminaire Lumens: 104.0 lumens  
Efficiency: N/A  
Efficacy: 35.9 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.14  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 2.9  
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



— 0°-180°    - - 45°-225°    - - - 90°-270°

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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  | 22  | 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°  | 1579   | 1579 | 1579 | 1579 | 1579 |
| 5°  | 1849   | 1717 | 1475 | 1299 | 1255 |
| 10° | 1826   | 1559 | 1180 | 1002 | 980  |
| 15° | 1589   | 1203 | 863  | 795  | 840  |
| 20° | 2380   | 1003 | 630  | 677  | 747  |
| 25° | 10210  | 1040 | 508  | 605  | 726  |
| 30° | 38639  | 1266 | 430  | 582  | 709  |
| 35° | 117115 | 1526 | 402  | 589  | 750  |
| 40° | 194192 | 1517 | 344  | 630  | 802  |
| 45° | 225698 | 1023 | 310  | 682  | 868  |
| 50° | 175210 | 580  | 307  | 716  | 989  |
| 55° | 101425 | 382  | 306  | 803  | 1070 |
| 60° | 17148  | 88   | 263  | 833  | 1184 |
| 65° | 1297   | 0    | 311  | 934  | 1349 |
| 70° | 192    | 0    | 385  | 1026 | 1539 |
| 75° | 169    | 85   | 424  | 1186 | 1864 |
| 80° | 126    | 126  | 631  | 1263 | 2147 |
| 85° | 252    | 252  | 1006 | 1258 | 2264 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 225698 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.6    | 0.6       |
| 10°-20°   | 1.3    | 1.2       |
| 20°-30°   | 4.1    | 4.0       |
| 30°-40°   | 26.5   | 25.5      |
| 40°-50°   | 48.5   | 46.7      |
| 50°-60°   | 20.0   | 19.2      |
| 60°-70°   | 1.7    | 1.6       |
| 70°-80°   | 0.9    | 0.8       |
| 80°-90°   | 0.4    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 6.1    | 5.8       |
| 0°-40°    | 32.6   | 31.3      |
| 0°-60°    | 101.1  | 97.2      |
| 0°-90°    | 104.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 104.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 7   | 7   | 7   | 7    | 7    |      |
| 5°  | 8   | 8   | 7   | 6    | 6    | 1    |
| 15° | 7   | 5   | 4   | 4    | 4    | 2    |
| 25° | 42  | 4   | 2   | 2    | 3    | 28   |
| 35° | 438 | 6   | 2   | 2    | 3    | 277  |
| 45° | 728 | 3   | 1   | 2    | 3    | 523  |
| 55° | 265 | 1   | 1   | 2    | 3    | 232  |
| 65° | 2   | 0   | 1   | 2    | 3    | 8    |
| 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°    | 7.2   | 7.2   | 7.2   | 7.2   | 7.2   | 7.2   | 7.2   | 7.2   | 7.2   | 7.2   | 7.2 |
| 2.5°  | 7.9   | 7.9   | 7.9   | 7.8   | 7.8   | 7.9   | 7.8   | 7.8   | 7.8   | 7.8   | 7.7 |
| 5°    | 8.4   | 8.4   | 8.4   | 8.4   | 8.4   | 8.4   | 8.4   | 8.3   | 8.3   | 8.2   | 7.8 |
| 7.5°  | 8.6   | 8.6   | 8.6   | 8.6   | 8.5   | 8.5   | 8.5   | 8.5   | 8.4   | 8.3   | 7.6 |
| 10°   | 8.2   | 8.2   | 8.2   | 8.1   | 8.1   | 8.1   | 8.0   | 8.0   | 7.9   | 7.8   | 7.0 |
| 12.5° | 7.4   | 7.4   | 7.4   | 7.4   | 7.3   | 7.3   | 7.2   | 7.2   | 7.1   | 7.0   | 6.2 |
| 15°   | 7.0   | 7.0   | 7.0   | 6.9   | 6.9   | 6.8   | 6.7   | 6.6   | 6.5   | 6.4   | 5.3 |
| 17.5° | 7.6   | 7.6   | 7.5   | 7.5   | 7.3   | 7.1   | 7.0   | 6.7   | 6.5   | 6.3   | 4.7 |
| 20°   | 10.2  | 10.3  | 9.9   | 9.6   | 9.4   | 8.8   | 8.5   | 8.0   | 7.6   | 7.1   | 4.3 |
| 22.5° | 20.5  | 20.1  | 19.4  | 18.4  | 17.1  | 16.0  | 14.1  | 12.5  | 11.4  | 10.0  | 4.2 |
| 25°   | 42.2  | 41.8  | 40.0  | 38.4  | 34.5  | 31.5  | 27.3  | 23.8  | 20.3  | 16.9  | 4.3 |
| 27.5° | 80.2  | 77.6  | 77.1  | 70.0  | 64.5  | 56.7  | 48.6  | 41.7  | 35.5  | 28.5  | 4.6 |
| 30°   | 152.6 | 149.5 | 138.9 | 128.1 | 113.4 | 96.7  | 80.7  | 65.9  | 53.5  | 42.2  | 5.0 |
| 31°   | 193.6 | 196.5 | 184.0 | 162.4 | 140.6 | 119.2 | 97.4  | 78.6  | 62.6  | 48.6  | 5.2 |
| 32°   | 254.5 | 241.7 | 228.5 | 206.3 | 174.7 | 147.3 | 119.9 | 92.8  | 71.6  | 55.4  | 5.4 |
| 33°   | 312.1 | 304.5 | 284.4 | 256.8 | 218.7 | 180.3 | 144.8 | 109.5 | 82.8  | 63.7  | 5.5 |
| 34°   | 373.4 | 365.1 | 348.8 | 309.1 | 267.4 | 217.1 | 169.8 | 128.7 | 96.1  | 71.8  | 5.6 |
| 35°   | 437.5 | 433.9 | 402.5 | 368.1 | 316.8 | 256.1 | 199.8 | 149.8 | 109.1 | 79.3  | 5.7 |
| 36°   | 501.9 | 490.5 | 465.9 | 415.7 | 362.1 | 292.1 | 231.2 | 169.5 | 122.3 | 88.1  | 5.7 |
| 37°   | 550.3 | 547.8 | 515.2 | 466.2 | 403.3 | 330.6 | 258.4 | 191.3 | 135.6 | 95.6  | 5.7 |
| 38°   | 603.8 | 593.7 | 560.6 | 510.8 | 442.0 | 365.9 | 286.9 | 210.2 | 148.2 | 102.4 | 5.6 |
| 39°   | 648.9 | 633.9 | 600.5 | 551.2 | 475.8 | 392.7 | 309.4 | 228.6 | 159.3 | 108.1 | 5.5 |
| 40°   | 678.4 | 668.0 | 633.1 | 577.7 | 506.5 | 418.0 | 332.3 | 243.8 | 167.6 | 112.4 | 5.3 |
| 41°   | 710.9 | 693.7 | 659.2 | 603.5 | 528.7 | 440.3 | 346.7 | 253.7 | 174.1 | 115.2 | 5.1 |
| 42°   | 730.4 | 716.3 | 675.4 | 620.8 | 544.7 | 453.0 | 358.4 | 261.3 | 178.0 | 116.7 | 4.7 |
| 43°   | 748.6 | 729.4 | 689.5 | 630.9 | 555.2 | 462.0 | 363.8 | 264.9 | 178.9 | 116.7 | 4.2 |
| 44°   | 746.1 | 727.9 | 686.6 | 632.3 | 557.6 | 464.6 | 366.0 | 265.0 | 177.5 | 115.2 | 3.7 |
| 45°   | 727.8 | 709.8 | 672.5 | 620.3 | 549.2 | 459.5 | 361.5 | 261.1 | 173.7 | 112.7 | 3.3 |
| 46°   | 694.3 | 676.3 | 647.8 | 600.4 | 533.5 | 447.7 | 351.1 | 252.5 | 167.3 | 108.6 | 2.9 |
| 47°   | 657.9 | 640.4 | 611.1 | 568.2 | 506.9 | 426.8 | 335.9 | 240.6 | 158.4 | 102.6 | 2.6 |
| 48°   | 605.0 | 594.0 | 564.7 | 528.1 | 469.8 | 394.1 | 309.3 | 221.2 | 146.5 | 94.9  | 2.2 |
| 49°   | 558.3 | 546.7 | 521.0 | 481.6 | 421.5 | 356.0 | 277.6 | 197.5 | 131.0 | 86.3  | 2.0 |
| 50°   | 513.6 | 503.5 | 479.8 | 435.3 | 377.9 | 309.9 | 234.7 | 167.7 | 111.4 | 75.6  | 1.7 |
| 51°   | 469.9 | 462.4 | 438.1 | 397.3 | 339.0 | 274.5 | 203.3 | 139.7 | 92.1  | 62.7  | 1.6 |
| 52°   | 426.0 | 425.1 | 398.9 | 357.5 | 301.2 | 239.3 | 172.8 | 117.9 | 78.1  | 52.7  | 1.5 |
| 53°   | 378.8 | 373.2 | 350.2 | 313.0 | 259.0 | 202.5 | 146.5 | 99.4  | 67.2  | 44.9  | 1.3 |
| 54°   | 325.1 | 318.7 | 294.1 | 260.6 | 211.6 | 165.9 | 118.1 | 80.3  | 56.0  | 37.9  | 1.2 |
| 55°   | 265.3 | 254.4 | 236.5 | 202.1 | 165.3 | 126.6 | 91.2  | 63.6  | 44.8  | 31.6  | 1.0 |
| 56°   | 201.2 | 190.4 | 180.3 | 155.0 | 121.3 | 94.4  | 67.9  | 48.8  | 35.0  | 24.9  | 0.9 |
| 57°   | 140.0 | 139.4 | 122.9 | 103.4 | 81.1  | 64.3  | 46.5  | 34.4  | 24.7  | 19.4  | 0.7 |
| 58°   | 90.8  | 87.8  | 77.2  | 66.0  | 53.1  | 40.2  | 29.9  | 23.4  | 16.8  | 13.2  | 0.6 |
| 59°   | 63.6  | 57.6  | 51.9  | 44.0  | 33.4  | 25.3  | 19.3  | 15.0  | 11.6  | 9.2   | 0.4 |
| 60°   | 39.1  | 37.8  | 34.0  | 26.8  | 21.7  | 17.9  | 14.4  | 11.0  | 8.5   | 6.5   | 0.2 |
| 62.5° | 11.1  | 11.3  | 10.3  | 9.1   | 7.8   | 6.7   | 6.1   | 5.2   | 4.3   | 3.4   | 0.0 |
| 65°   | 2.5   | 2.4   | 2.6   | 2.4   | 2.2   | 2.2   | 2.0   | 1.8   | 1.6   | 1.5   | 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° | 0.8 | 0.8  | 0.7 | 0.7  | 0.7 | 0.6   | 0.6 | 0.5   | 0.5 | 0.4   | 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°    | 7.2   | 7.2 | 7.2    | 7.2  | 7.2    | 7.2  |
| 2.5°  | 7.5   | 7.1 | 6.8    | 6.5  | 6.5    | 6.5  |
| 5°    | 7.3   | 6.7 | 6.2    | 5.9  | 5.7    | 5.7  |
| 7.5°  | 6.7   | 6.1 | 5.5    | 5.2  | 5.1    | 5.1  |
| 10°   | 6.1   | 5.3 | 4.7    | 4.5  | 4.5    | 4.4  |
| 12.5° | 5.3   | 4.5 | 4.1    | 4.0  | 4.0    | 4.0  |
| 15°   | 4.4   | 3.8 | 3.5    | 3.5  | 3.6    | 3.7  |
| 17.5° | 3.7   | 3.1 | 3.0    | 3.2  | 3.4    | 3.4  |
| 20°   | 3.1   | 2.7 | 2.7    | 2.9  | 3.1    | 3.2  |
| 22.5° | 2.6   | 2.3 | 2.4    | 2.7  | 3.0    | 3.1  |
| 25°   | 2.3   | 2.1 | 2.2    | 2.5  | 2.8    | 3.0  |
| 27.5° | 2.0   | 1.9 | 2.1    | 2.4  | 2.8    | 2.9  |
| 30°   | 1.7   | 1.7 | 2.0    | 2.3  | 2.7    | 2.8  |
| 31°   | 1.6   | 1.6 | 2.0    | 2.3  | 2.7    | 2.8  |
| 32°   | 1.5   | 1.6 | 1.9    | 2.3  | 2.7    | 2.8  |
| 33°   | 1.4   | 1.5 | 1.9    | 2.2  | 2.7    | 2.8  |
| 34°   | 1.3   | 1.5 | 1.9    | 2.2  | 2.7    | 2.8  |
| 35°   | 1.2   | 1.5 | 1.9    | 2.2  | 2.7    | 2.8  |
| 36°   | 1.1   | 1.4 | 1.8    | 2.2  | 2.7    | 2.8  |
| 37°   | 1.0   | 1.4 | 1.8    | 2.2  | 2.7    | 2.8  |
| 38°   | 0.9   | 1.3 | 1.8    | 2.2  | 2.7    | 2.8  |
| 39°   | 0.9   | 1.3 | 1.7    | 2.2  | 2.6    | 2.8  |
| 40°   | 0.8   | 1.2 | 1.7    | 2.2  | 2.6    | 2.8  |
| 41°   | 0.7   | 1.2 | 1.7    | 2.2  | 2.6    | 2.8  |
| 42°   | 0.6   | 1.1 | 1.6    | 2.2  | 2.6    | 2.8  |
| 43°   | 0.5   | 1.1 | 1.6    | 2.2  | 2.6    | 2.8  |
| 44°   | 0.5   | 1.0 | 1.6    | 2.2  | 2.6    | 2.8  |
| 45°   | 0.4   | 1.0 | 1.6    | 2.2  | 2.6    | 2.8  |
| 46°   | 0.3   | 1.0 | 1.6    | 2.2  | 2.6    | 2.8  |
| 47°   | 0.3   | 0.9 | 1.5    | 2.2  | 2.6    | 2.8  |
| 48°   | 0.2   | 0.9 | 1.5    | 2.2  | 2.6    | 2.8  |
| 49°   | 0.2   | 0.9 | 1.5    | 2.2  | 2.6    | 2.9  |
| 50°   | 0.2   | 0.9 | 1.5    | 2.1  | 2.6    | 2.9  |
| 51°   | 0.1   | 0.9 | 1.5    | 2.1  | 2.6    | 2.9  |
| 52°   | 0.1   | 0.9 | 1.4    | 2.1  | 2.7    | 2.9  |
| 53°   | 0.1   | 0.8 | 1.4    | 2.1  | 2.7    | 2.9  |
| 54°   | 0.1   | 0.8 | 1.4    | 2.1  | 2.7    | 2.8  |
| 55°   | 0.1   | 0.8 | 1.4    | 2.1  | 2.6    | 2.8  |
| 56°   | 0.1   | 0.7 | 1.4    | 2.1  | 2.6    | 2.8  |
| 57°   | 0.1   | 0.7 | 1.3    | 2.0  | 2.6    | 2.7  |
| 58°   | 0.1   | 0.7 | 1.3    | 2.0  | 2.6    | 2.7  |
| 59°   | 0.1   | 0.7 | 1.3    | 2.0  | 2.5    | 2.7  |
| 60°   | 0.2   | 0.6 | 1.2    | 1.9  | 2.5    | 2.7  |
| 62.5° | 0.2   | 0.6 | 1.2    | 1.9  | 2.4    | 2.6  |
| 65°   | 0.2   | 0.6 | 1.1    | 1.8  | 2.4    | 2.6  |



TEST NUMBER: P1334578

CATALOG NUMBER: P3A02R20B2750DE010 E3A451LI\_3000K

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.2   | 0.5 | 1.0    | 1.7  | 2.3    | 2.5  |
| 70°   | 0.2   | 0.6 | 1.0    | 1.6  | 2.2    | 2.4  |
| 72.5° | 0.3   | 0.5 | 0.9    | 1.5  | 2.2    | 2.3  |
| 75°   | 0.3   | 0.5 | 0.9    | 1.4  | 2.1    | 2.2  |
| 77.5° | 0.4   | 0.5 | 0.8    | 1.2  | 1.9    | 2.0  |
| 80°   | 0.4   | 0.5 | 0.7    | 1.0  | 1.6    | 1.7  |
| 82.5° | 0.4   | 0.5 | 0.5    | 0.8  | 1.2    | 1.3  |
| 85°   | 0.3   | 0.4 | 0.4    | 0.5  | 0.8    | 0.9  |
| 87.5° | 0.3   | 0.4 | 0.3    | 0.2  | 0.4    | 0.4  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)