

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: P1334666

Luminaire Tested: P3A02R259030DE010 E3A451B

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1334666  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A02R259030DE010 E3A451B  
Description: 3in Adjustable LED luminaire with, R25 optic, 3000K CCT AND, 90CRI , E3A451B TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

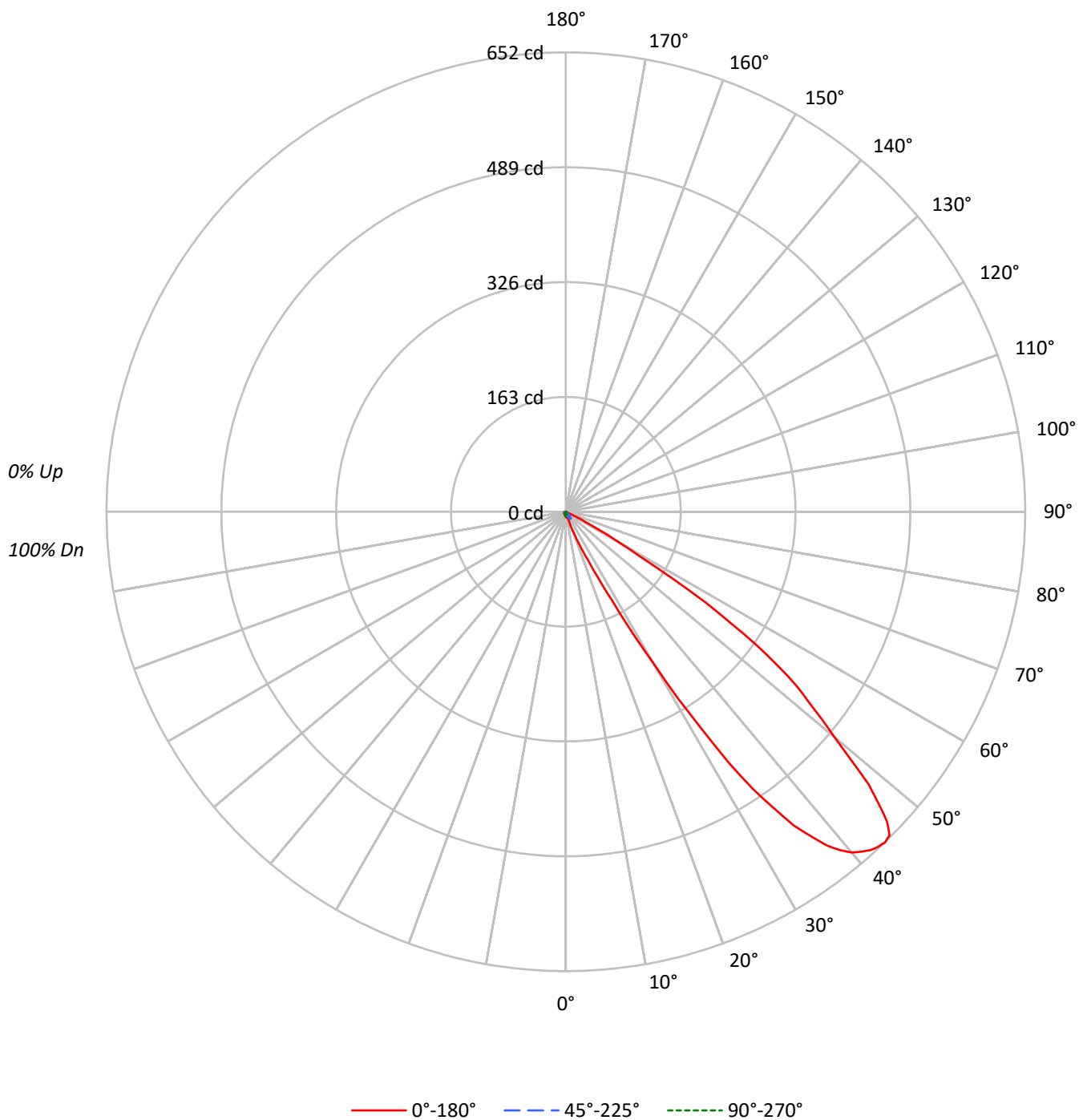
Lumens per Lamp: N/A  
Luminaire Lumens: 136.0 lumens  
Efficiency: N/A  
Efficacy: 37.8 lumens/watt  
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1334666

CATALOG NUMBER: P3A02R259030DE010 E3A451B

### 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  | 64  | 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  | 39  | 52  | 44  | 38  | 50  | 43  | 38  | 48  | 42  | 37  | 35  |    |    |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 39  | 32  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 29  |    |    |
| 8   | 57  | 43  | 34  | 27  | 55  | 42  | 33  | 27  | 40  | 33  | 27  | 39  | 32  | 27  | 38  | 32  | 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  | 20  | 31  | 24  | 19  | 30  | 24  | 19  | 17  |    |    |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 1513   | 1513 | 1513 | 1513 | 1513 |
| 5°  | 1739   | 1651 | 1475 | 1321 | 1299 |
| 10° | 1737   | 1581 | 1247 | 1091 | 1091 |
| 15° | 1930   | 1362 | 976  | 931  | 976  |
| 20° | 6814   | 1330 | 747  | 793  | 863  |
| 25° | 19598  | 1718 | 605  | 726  | 847  |
| 30° | 62541  | 2633 | 481  | 709  | 861  |
| 35° | 136978 | 3105 | 428  | 669  | 857  |
| 40° | 180710 | 2805 | 344  | 687  | 916  |
| 45° | 201509 | 1954 | 341  | 744  | 992  |
| 50° | 169649 | 1023 | 341  | 785  | 1092 |
| 55° | 126810 | 421  | 306  | 879  | 1223 |
| 60° | 39251  | 88   | 307  | 965  | 1360 |
| 65° | 3373   | 0    | 363  | 986  | 1505 |
| 70° | 256    | 64   | 385  | 1154 | 1667 |
| 75° | 169    | 85   | 508  | 1186 | 1949 |
| 80° | 126    | 126  | 758  | 1389 | 2273 |
| 85° | 252    | 252  | 1258 | 1510 | 2516 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 201509 cd/sqm

TEST NUMBER: P1334666

CATALOG NUMBER: P3A02R259030DE010 E3A451B

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.6    | 0.5       |
| 10°-20°   | 1.6    | 1.2       |
| 20°-30°   | 7.5    | 5.5       |
| 30°-40°   | 36.2   | 26.6      |
| 40°-50°   | 56.8   | 41.8      |
| 50°-60°   | 29.1   | 21.4      |
| 60°-70°   | 2.7    | 2.0       |
| 70°-80°   | 0.9    | 0.7       |
| 80°-90°   | 0.5    | 0.3       |
| 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°    | 9.7    | 7.2       |
| 0°-40°    | 46.0   | 33.8      |
| 0°-60°    | 131.9  | 97.0      |
| 0°-90°    | 136.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 136.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 7   | 7   | 7   | 7    | 7    |      |
| 5°  | 8   | 8   | 7   | 6    | 6    | 1    |
| 15° | 8   | 6   | 4   | 4    | 4    | 4    |
| 25° | 81  | 7   | 2   | 3    | 4    | 50   |
| 35° | 512 | 12  | 2   | 2    | 3    | 311  |
| 45° | 650 | 6   | 1   | 2    | 3    | 476  |
| 55° | 332 | 1   | 1   | 2    | 3    | 276  |
| 65° | 6   | 0   | 1   | 2    | 3    | 20   |
| 75° | 0   | 0   | 1   | 1    | 2    | 0    |
| 85° | 0   | 0   | 0   | 1    | 1    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1334666

CATALOG NUMBER: P3A02R259030DE010 E3A451B

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 2.5°  | 5°    | 7.5°  | 10°   | 12.5° | 15°   | 17.5° | 20°   | 22.5° | 45°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 0°    | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9  |
| 2.5°  | 7.5   | 7.5   | 7.5   | 7.5   | 7.5   | 7.5   | 7.4   | 7.4   | 7.5   | 7.4   | 7.4  |
| 5°    | 7.9   | 7.9   | 7.9   | 7.9   | 7.9   | 7.9   | 7.9   | 7.8   | 7.8   | 7.8   | 7.5  |
| 7.5°  | 8.0   | 7.9   | 7.9   | 7.9   | 7.9   | 7.9   | 7.9   | 7.9   | 7.8   | 7.8   | 7.4  |
| 10°   | 7.8   | 7.8   | 7.8   | 7.8   | 7.7   | 7.7   | 7.7   | 7.5   | 7.5   | 7.5   | 7.1  |
| 12.5° | 7.8   | 7.8   | 7.8   | 7.8   | 7.7   | 7.7   | 7.5   | 7.5   | 7.4   | 7.3   | 6.5  |
| 15°   | 8.5   | 8.5   | 8.5   | 8.4   | 8.3   | 8.1   | 8.0   | 7.9   | 7.8   | 7.5   | 6.0  |
| 17.5° | 12.4  | 12.1  | 12.0  | 11.5  | 10.9  | 10.3  | 9.8   | 9.3   | 8.9   | 8.5   | 5.7  |
| 20°   | 29.2  | 29.1  | 28.5  | 27.0  | 25.5  | 23.7  | 21.9  | 19.9  | 17.0  | 15.1  | 5.7  |
| 22.5° | 50.6  | 49.9  | 48.8  | 47.8  | 45.0  | 41.8  | 38.4  | 34.6  | 30.9  | 26.9  | 6.1  |
| 25°   | 81.0  | 82.7  | 79.1  | 76.2  | 71.4  | 65.6  | 59.2  | 54.0  | 47.3  | 41.0  | 7.1  |
| 27.5° | 140.9 | 141.9 | 134.9 | 125.5 | 114.4 | 102.1 | 90.1  | 81.1  | 69.9  | 59.6  | 8.9  |
| 30°   | 247.0 | 248.1 | 236.2 | 216.4 | 193.4 | 173.2 | 145.8 | 121.7 | 99.6  | 82.5  | 10.4 |
| 31°   | 308.3 | 299.9 | 286.1 | 266.9 | 237.8 | 207.3 | 174.4 | 145.3 | 117.3 | 94.8  | 10.9 |
| 32°   | 361.5 | 360.8 | 344.8 | 315.6 | 286.4 | 248.7 | 207.9 | 169.9 | 135.6 | 107.2 | 11.2 |
| 33°   | 424.4 | 419.6 | 397.0 | 369.4 | 330.8 | 292.8 | 240.2 | 196.9 | 154.4 | 121.1 | 11.5 |
| 34°   | 474.8 | 461.8 | 452.5 | 421.0 | 380.2 | 331.9 | 275.5 | 225.4 | 177.8 | 134.5 | 11.6 |
| 35°   | 511.7 | 509.0 | 490.8 | 461.5 | 419.9 | 370.5 | 313.6 | 254.9 | 197.5 | 150.1 | 11.6 |
| 36°   | 550.9 | 542.4 | 524.7 | 498.1 | 457.6 | 406.5 | 342.6 | 280.5 | 220.3 | 164.1 | 11.5 |
| 37°   | 575.4 | 570.4 | 552.8 | 525.4 | 485.8 | 436.9 | 375.2 | 307.6 | 238.5 | 178.1 | 11.2 |
| 38°   | 600.7 | 590.5 | 573.1 | 546.9 | 508.0 | 462.2 | 398.8 | 328.4 | 255.3 | 190.4 | 10.9 |
| 39°   | 618.1 | 607.6 | 589.9 | 563.8 | 525.7 | 480.3 | 417.4 | 346.1 | 269.9 | 199.6 | 10.4 |
| 40°   | 631.3 | 621.1 | 603.2 | 576.4 | 538.8 | 494.5 | 433.0 | 361.8 | 282.1 | 207.6 | 9.8  |
| 41°   | 639.4 | 630.0 | 612.1 | 585.5 | 547.8 | 502.6 | 443.2 | 372.0 | 290.3 | 213.0 | 9.2  |
| 42°   | 646.3 | 636.6 | 618.4 | 591.1 | 553.3 | 509.6 | 449.4 | 378.4 | 296.0 | 215.8 | 8.7  |
| 43°   | 650.1 | 640.4 | 622.7 | 594.8 | 556.6 | 512.8 | 452.7 | 381.4 | 297.9 | 215.4 | 7.9  |
| 44°   | 652.2 | 642.2 | 624.4 | 596.5 | 558.1 | 513.7 | 453.0 | 380.8 | 296.6 | 212.5 | 7.2  |
| 45°   | 649.8 | 639.9 | 622.7 | 594.8 | 555.5 | 511.0 | 450.6 | 377.6 | 291.5 | 206.9 | 6.3  |
| 46°   | 634.3 | 626.6 | 610.8 | 585.2 | 547.6 | 504.3 | 444.5 | 371.4 | 283.8 | 200.0 | 5.4  |
| 47°   | 606.9 | 600.8 | 585.5 | 566.4 | 532.4 | 492.0 | 433.2 | 359.5 | 272.9 | 189.6 | 4.3  |
| 48°   | 578.3 | 569.3 | 555.1 | 535.6 | 506.8 | 469.9 | 414.7 | 342.2 | 256.3 | 175.9 | 3.8  |
| 49°   | 536.0 | 530.8 | 518.2 | 496.4 | 472.6 | 440.1 | 388.5 | 319.9 | 236.1 | 161.1 | 3.4  |
| 50°   | 497.3 | 493.7 | 476.1 | 460.0 | 434.8 | 404.4 | 352.9 | 290.6 | 211.0 | 142.7 | 3.0  |
| 51°   | 467.0 | 462.7 | 450.0 | 430.0 | 403.1 | 367.8 | 319.3 | 252.5 | 182.1 | 120.8 | 2.4  |
| 52°   | 435.4 | 433.0 | 421.7 | 401.2 | 374.7 | 339.5 | 286.6 | 220.2 | 154.1 | 102.1 | 1.9  |
| 53°   | 409.5 | 406.1 | 392.3 | 374.0 | 345.4 | 309.0 | 251.2 | 190.2 | 130.6 | 85.8  | 1.7  |
| 54°   | 371.8 | 370.4 | 361.5 | 342.4 | 311.4 | 271.8 | 219.1 | 160.1 | 108.9 | 72.8  | 1.4  |
| 55°   | 331.7 | 327.0 | 318.0 | 302.8 | 274.3 | 237.3 | 182.0 | 132.7 | 88.1  | 61.3  | 1.1  |
| 56°   | 282.9 | 282.7 | 266.6 | 254.0 | 228.7 | 189.4 | 145.4 | 103.6 | 71.6  | 51.1  | 1.0  |
| 57°   | 236.2 | 228.7 | 213.3 | 200.7 | 173.5 | 143.7 | 107.9 | 77.7  | 56.0  | 41.4  | 0.7  |
| 58°   | 174.7 | 170.8 | 166.7 | 148.3 | 123.1 | 101.8 | 77.1  | 54.6  | 41.4  | 31.6  | 0.5  |
| 59°   | 118.6 | 118.5 | 113.7 | 99.7  | 85.2  | 63.4  | 48.1  | 37.1  | 28.5  | 23.2  | 0.4  |
| 60°   | 89.5  | 87.4  | 77.8  | 68.6  | 53.6  | 40.1  | 28.5  | 21.9  | 17.7  | 15.0  | 0.2  |
| 62.5° | 31.4  | 32.6  | 28.6  | 23.7  | 18.1  | 14.8  | 11.4  | 9.2   | 7.5   | 6.1   | 0.0  |
| 65°   | 6.5   | 7.1   | 6.1   | 5.7   | 4.5   | 3.9   | 3.5   | 3.0   | 2.5   | 2.2   | 0.0  |



TEST NUMBER: P1334666

CATALOG NUMBER: P3A02R259030DE010 E3A451B

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 0.8 | 0.7  | 0.7 | 0.7  | 0.6 | 0.6   | 0.6 | 0.6   | 0.5 | 0.5   | 0.1 |
| 70°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.2 | 0.2   | 0.2 | 0.2   | 0.1 |
| 72.5° | 0.4 | 0.4  | 0.4 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 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 | 0.2   | 0.1 | 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   | 0.2 |
| 85°   | 0.1 | 0.1  | 0.1 | 0.0  | 0.0 | 0.1   | 0.1 | 0.1   | 0.1 | 0.1   | 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: P1334666

CATALOG NUMBER: P3A02R259030DE010 E3A451B

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 6.9   | 6.9 | 6.9    | 6.9  | 6.9    | 6.9  |
| 2.5°  | 7.3   | 7.1 | 6.7    | 6.6  | 6.5    | 6.5  |
| 5°    | 7.2   | 6.7 | 6.3    | 6.0  | 5.9    | 5.9  |
| 7.5°  | 6.8   | 6.2 | 5.7    | 5.5  | 5.4    | 5.3  |
| 10°   | 6.5   | 5.6 | 5.1    | 4.9  | 4.9    | 4.9  |
| 12.5° | 5.7   | 5.0 | 4.5    | 4.4  | 4.5    | 4.5  |
| 15°   | 5.1   | 4.3 | 4.1    | 4.1  | 4.2    | 4.3  |
| 17.5° | 4.4   | 3.8 | 3.6    | 3.7  | 3.8    | 3.9  |
| 20°   | 3.9   | 3.2 | 3.2    | 3.4  | 3.7    | 3.7  |
| 22.5° | 3.5   | 2.9 | 2.9    | 3.2  | 3.5    | 3.6  |
| 25°   | 3.1   | 2.5 | 2.6    | 3.0  | 3.4    | 3.5  |
| 27.5° | 2.6   | 2.2 | 2.4    | 2.9  | 3.2    | 3.4  |
| 30°   | 2.3   | 1.9 | 2.3    | 2.8  | 3.1    | 3.4  |
| 31°   | 2.2   | 1.8 | 2.3    | 2.6  | 3.1    | 3.4  |
| 32°   | 1.9   | 1.8 | 2.2    | 2.6  | 3.1    | 3.2  |
| 33°   | 1.8   | 1.7 | 2.2    | 2.6  | 3.1    | 3.2  |
| 34°   | 1.7   | 1.6 | 2.0    | 2.6  | 3.1    | 3.2  |
| 35°   | 1.4   | 1.6 | 2.0    | 2.5  | 3.0    | 3.2  |
| 36°   | 1.3   | 1.4 | 2.0    | 2.5  | 3.0    | 3.2  |
| 37°   | 1.2   | 1.4 | 1.9    | 2.5  | 3.0    | 3.2  |
| 38°   | 1.1   | 1.3 | 1.9    | 2.5  | 3.0    | 3.2  |
| 39°   | 1.0   | 1.3 | 1.8    | 2.5  | 3.0    | 3.2  |
| 40°   | 0.8   | 1.2 | 1.8    | 2.4  | 3.0    | 3.2  |
| 41°   | 0.8   | 1.2 | 1.8    | 2.4  | 3.0    | 3.2  |
| 42°   | 0.7   | 1.2 | 1.8    | 2.4  | 3.0    | 3.2  |
| 43°   | 0.6   | 1.1 | 1.8    | 2.4  | 3.0    | 3.2  |
| 44°   | 0.5   | 1.1 | 1.7    | 2.4  | 3.0    | 3.2  |
| 45°   | 0.5   | 1.1 | 1.7    | 2.4  | 3.0    | 3.2  |
| 46°   | 0.4   | 1.0 | 1.7    | 2.4  | 3.0    | 3.2  |
| 47°   | 0.2   | 1.0 | 1.7    | 2.3  | 3.0    | 3.2  |
| 48°   | 0.2   | 1.0 | 1.7    | 2.3  | 3.0    | 3.2  |
| 49°   | 0.2   | 1.0 | 1.6    | 2.3  | 3.0    | 3.2  |
| 50°   | 0.2   | 1.0 | 1.6    | 2.3  | 3.0    | 3.2  |
| 51°   | 0.1   | 0.8 | 1.6    | 2.3  | 3.0    | 3.2  |
| 52°   | 0.1   | 0.8 | 1.6    | 2.3  | 3.0    | 3.4  |
| 53°   | 0.1   | 0.8 | 1.6    | 2.3  | 3.0    | 3.2  |
| 54°   | 0.1   | 0.8 | 1.4    | 2.3  | 3.0    | 3.2  |
| 55°   | 0.1   | 0.8 | 1.4    | 2.3  | 3.0    | 3.2  |
| 56°   | 0.1   | 0.7 | 1.4    | 2.2  | 3.0    | 3.2  |
| 57°   | 0.2   | 0.7 | 1.4    | 2.2  | 3.0    | 3.1  |
| 58°   | 0.2   | 0.7 | 1.4    | 2.2  | 2.9    | 3.1  |
| 59°   | 0.2   | 0.7 | 1.4    | 2.2  | 2.9    | 3.1  |
| 60°   | 0.2   | 0.7 | 1.3    | 2.2  | 2.9    | 3.1  |
| 62.5° | 0.2   | 0.7 | 1.3    | 2.0  | 2.8    | 3.0  |
| 65°   | 0.2   | 0.7 | 1.2    | 1.9  | 2.8    | 2.9  |



TEST NUMBER: P1334666

CATALOG NUMBER: P3A02R259030DE010 E3A451B

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.2   | 0.6 | 1.2    | 1.8  | 2.6    | 2.8  |
| 70°   | 0.4   | 0.6 | 1.1    | 1.8  | 2.5    | 2.6  |
| 72.5° | 0.4   | 0.6 | 1.1    | 1.6  | 2.3    | 2.5  |
| 75°   | 0.4   | 0.6 | 1.0    | 1.4  | 2.2    | 2.3  |
| 77.5° | 0.4   | 0.6 | 0.8    | 1.3  | 1.9    | 2.0  |
| 80°   | 0.5   | 0.6 | 0.7    | 1.1  | 1.7    | 1.8  |
| 82.5° | 0.5   | 0.6 | 0.6    | 0.8  | 1.3    | 1.4  |
| 85°   | 0.4   | 0.5 | 0.5    | 0.6  | 0.8    | 1.0  |
| 87.5° | 0.4   | 0.5 | 0.4    | 0.2  | 0.5    | 0.5  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)