

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: P1336970

Luminaire Tested: P3A05R209830DE010 E3A451H

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1336970  
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: P3A05R209830DE010 E3A451H  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , E3A451H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

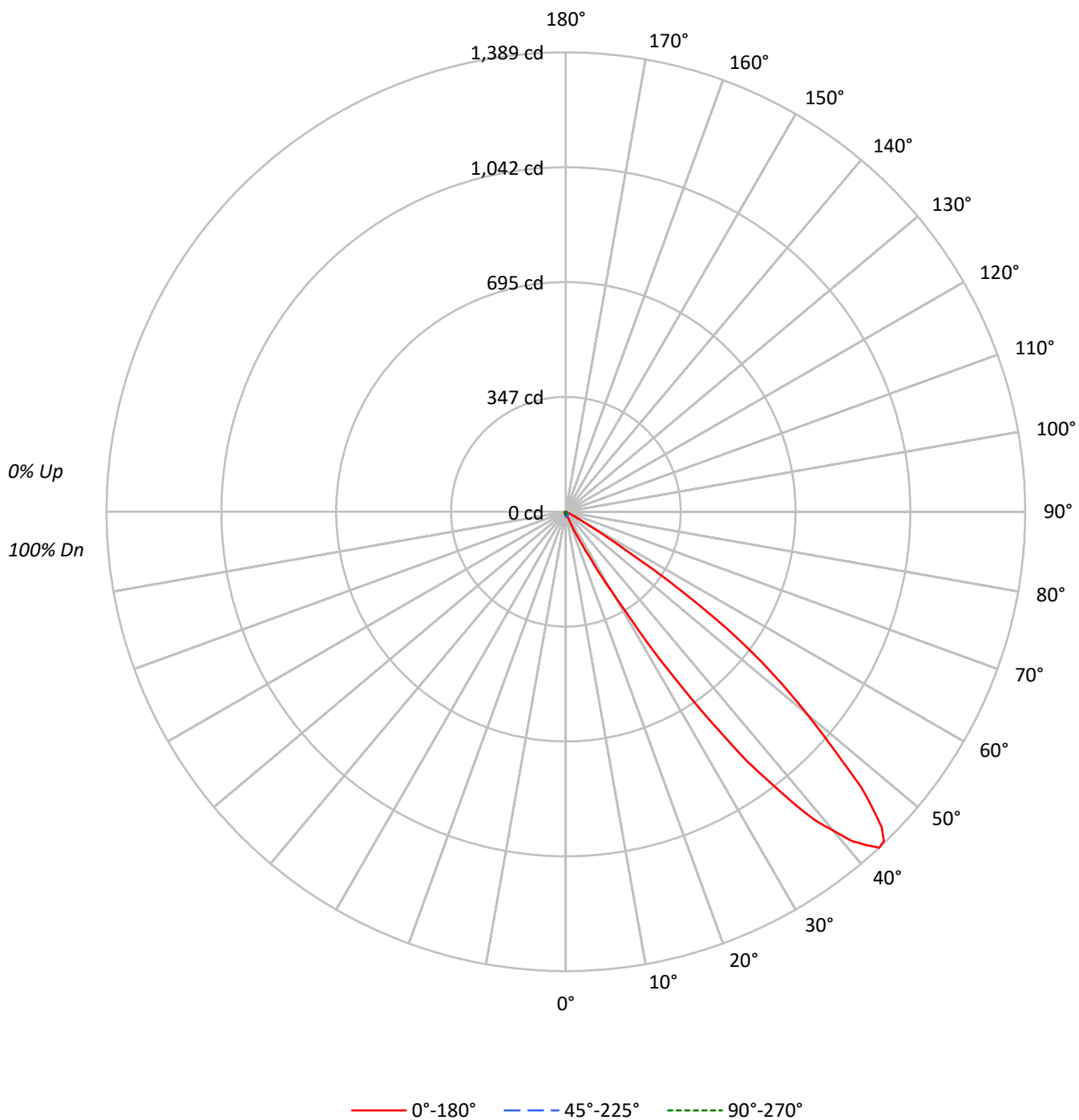
Lumens per Lamp: N/A  
Luminaire Lumens: 193.0 lumens  
Efficiency: N/A  
Efficacy: 26.8 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.14  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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: P1336970

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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  | 0   |
| 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°  | 2938   | 2938 | 2938 | 2938 | 2938 |
| 5°  | 3434   | 3192 | 2751 | 2399 | 2311 |
| 10° | 3384   | 2917 | 2182 | 1848 | 1826 |
| 15° | 2974   | 2225 | 1612 | 1476 | 1566 |
| 20° | 4410   | 1867 | 1190 | 1260 | 1400 |
| 25° | 18969  | 1936 | 919  | 1137 | 1355 |
| 30° | 71682  | 2355 | 785  | 1114 | 1342 |
| 35° | 217313 | 2811 | 723  | 1124 | 1419 |
| 40° | 360361 | 2805 | 630  | 1202 | 1517 |
| 45° | 418865 | 1923 | 558  | 1240 | 1644 |
| 50° | 325141 | 1058 | 546  | 1296 | 1842 |
| 55° | 188208 | 688  | 573  | 1453 | 2026 |
| 60° | 31796  | 175  | 482  | 1491 | 2237 |
| 65° | 2439   | 0    | 571  | 1712 | 2542 |
| 70° | 321    | 0    | 705  | 1859 | 2885 |
| 75° | 339    | 169  | 763  | 2118 | 3389 |
| 80° | 253    | 253  | 1137 | 2273 | 3915 |
| 85° | 503    | 503  | 1761 | 2264 | 4026 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 418865 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.2    | 0.6       |
| 10°-20°   | 2.4    | 1.3       |
| 20°-30°   | 7.7    | 4.0       |
| 30°-40°   | 49.2   | 25.5      |
| 40°-50°   | 90.1   | 46.7      |
| 50°-60°   | 37.0   | 19.2      |
| 60°-70°   | 3.1    | 1.6       |
| 70°-80°   | 1.6    | 0.8       |
| 80°-90°   | 0.7    | 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°    | 11.3   | 5.8       |
| 0°-40°    | 60.5   | 31.3      |
| 0°-60°    | 187.6  | 97.2      |
| 0°-90°    | 193.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 193.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 13   | 13  | 13  | 13   | 13   |      |
| 5°  | 16   | 14  | 12  | 11   | 10   | 1    |
| 15° | 13   | 10  | 7   | 6    | 7    | 4    |
| 25° | 78   | 8   | 4   | 5    | 6    | 52   |
| 35° | 812  | 10  | 3   | 4    | 5    | 514  |
| 45° | 1351 | 6   | 2   | 4    | 5    | 970  |
| 55° | 492  | 2   | 2   | 4    | 5    | 430  |
| 65° | 5    | 0   | 1   | 3    | 5    | 15   |
| 75° | 0    | 0   | 1   | 2    | 4    | 0    |
| 85° | 0    | 0   | 1   | 1    | 2    | 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°    | 13.4   | 13.4   | 13.4   | 13.4   | 13.4   | 13.4  | 13.4  | 13.4  | 13.4  | 13.4  | 13.4 |
| 2.5°  | 14.7   | 14.7   | 14.7   | 14.5   | 14.5   | 14.7  | 14.5  | 14.5  | 14.5  | 14.5  | 14.3 |
| 5°    | 15.6   | 15.6   | 15.6   | 15.6   | 15.6   | 15.6  | 15.6  | 15.4  | 15.4  | 15.2  | 14.5 |
| 7.5°  | 16.0   | 16.0   | 16.0   | 16.0   | 15.8   | 15.8  | 15.8  | 15.8  | 15.6  | 15.4  | 14.1 |
| 10°   | 15.2   | 15.2   | 15.2   | 15.1   | 15.1   | 15.1  | 14.9  | 14.9  | 14.7  | 14.5  | 13.1 |
| 12.5° | 13.8   | 13.8   | 13.8   | 13.8   | 13.6   | 13.6  | 13.4  | 13.4  | 13.2  | 13.1  | 11.4 |
| 15°   | 13.1   | 13.1   | 13.1   | 12.9   | 12.9   | 12.7  | 12.5  | 12.3  | 12.2  | 11.8  | 9.8  |
| 17.5° | 14.1   | 14.1   | 14.0   | 14.0   | 13.6   | 13.2  | 13.1  | 12.5  | 12.2  | 11.6  | 8.7  |
| 20°   | 18.9   | 19.0   | 18.3   | 17.8   | 17.4   | 16.3  | 15.8  | 14.9  | 14.1  | 13.2  | 8.0  |
| 22.5° | 38.1   | 37.4   | 36.1   | 34.1   | 31.7   | 29.7  | 26.1  | 23.2  | 21.2  | 18.5  | 7.8  |
| 25°   | 78.4   | 77.6   | 74.2   | 71.3   | 64.0   | 58.4  | 50.6  | 44.3  | 37.7  | 31.4  | 8.0  |
| 27.5° | 148.9  | 144.0  | 143.1  | 129.9  | 119.7  | 105.2 | 90.1  | 77.4  | 65.8  | 53.0  | 8.5  |
| 30°   | 283.1  | 277.5  | 257.7  | 237.8  | 210.4  | 179.4 | 149.8 | 122.2 | 99.2  | 78.4  | 9.3  |
| 31°   | 359.3  | 364.7  | 341.5  | 301.4  | 261.0  | 221.3 | 180.8 | 145.8 | 116.1 | 90.1  | 9.6  |
| 32°   | 472.3  | 448.5  | 424.1  | 382.9  | 324.1  | 273.3 | 222.5 | 172.1 | 132.9 | 102.8 | 10.0 |
| 33°   | 579.1  | 565.2  | 527.8  | 476.5  | 405.9  | 334.6 | 268.8 | 203.1 | 153.6 | 118.3 | 10.2 |
| 34°   | 693.0  | 677.6  | 647.3  | 573.7  | 496.2  | 402.8 | 315.0 | 238.9 | 178.3 | 133.3 | 10.3 |
| 35°   | 811.8  | 805.3  | 746.9  | 683.1  | 587.8  | 475.2 | 370.7 | 278.0 | 202.4 | 147.1 | 10.5 |
| 36°   | 931.4  | 910.3  | 864.6  | 771.4  | 672.0  | 542.1 | 429.1 | 314.5 | 226.9 | 163.4 | 10.5 |
| 37°   | 1021.3 | 1016.6 | 956.0  | 865.2  | 748.4  | 613.6 | 479.6 | 355.0 | 251.6 | 177.4 | 10.5 |
| 38°   | 1120.5 | 1101.9 | 1040.4 | 947.9  | 820.2  | 679.1 | 532.3 | 390.1 | 275.0 | 190.1 | 10.3 |
| 39°   | 1204.1 | 1176.4 | 1114.4 | 1023.0 | 882.9  | 728.8 | 574.2 | 424.2 | 295.6 | 200.6 | 10.2 |
| 40°   | 1258.9 | 1239.7 | 1174.9 | 1072.1 | 939.9  | 775.7 | 616.7 | 452.3 | 311.1 | 208.6 | 9.8  |
| 41°   | 1319.3 | 1287.4 | 1223.4 | 1120.0 | 981.2  | 817.1 | 643.3 | 470.8 | 323.0 | 213.8 | 9.4  |
| 42°   | 1355.4 | 1329.3 | 1253.3 | 1152.1 | 1010.8 | 840.7 | 665.1 | 485.0 | 330.3 | 216.6 | 8.7  |
| 43°   | 1389.1 | 1353.6 | 1279.6 | 1170.8 | 1030.4 | 857.4 | 675.1 | 491.5 | 331.9 | 216.6 | 7.8  |
| 44°   | 1384.6 | 1350.9 | 1274.2 | 1173.3 | 1034.7 | 862.3 | 679.2 | 491.7 | 329.4 | 213.8 | 6.9  |
| 45°   | 1350.7 | 1317.1 | 1248.0 | 1151.2 | 1019.1 | 852.6 | 670.9 | 484.5 | 322.3 | 209.1 | 6.2  |
| 46°   | 1288.5 | 1255.1 | 1202.2 | 1114.2 | 990.1  | 830.9 | 651.5 | 468.7 | 310.5 | 201.5 | 5.4  |
| 47°   | 1220.8 | 1188.4 | 1134.1 | 1054.5 | 940.6  | 792.1 | 623.4 | 446.5 | 294.0 | 190.4 | 4.9  |
| 48°   | 1122.7 | 1102.4 | 1048.0 | 980.0  | 871.9  | 731.3 | 574.1 | 410.5 | 271.9 | 176.1 | 4.2  |
| 49°   | 1036.0 | 1014.6 | 966.9  | 893.8  | 782.3  | 660.6 | 515.1 | 366.6 | 243.0 | 160.2 | 3.6  |
| 50°   | 953.1  | 934.4  | 890.4  | 807.8  | 701.4  | 575.1 | 435.5 | 311.2 | 206.8 | 140.4 | 3.1  |
| 51°   | 872.0  | 858.1  | 813.1  | 737.3  | 629.2  | 509.5 | 377.3 | 259.2 | 170.9 | 116.4 | 2.9  |
| 52°   | 790.6  | 789.0  | 740.2  | 663.5  | 559.0  | 444.0 | 320.7 | 218.7 | 144.9 | 97.8  | 2.7  |
| 53°   | 703.0  | 692.5  | 649.9  | 580.9  | 480.6  | 375.8 | 271.9 | 184.5 | 124.8 | 83.3  | 2.4  |
| 54°   | 603.3  | 591.5  | 545.8  | 483.5  | 392.7  | 307.8 | 219.1 | 149.1 | 103.9 | 70.4  | 2.2  |
| 55°   | 492.3  | 472.1  | 438.9  | 375.1  | 306.7  | 234.9 | 169.2 | 118.1 | 83.1  | 58.6  | 1.8  |
| 56°   | 373.5  | 353.3  | 334.6  | 287.7  | 225.1  | 175.2 | 126.1 | 90.5  | 64.9  | 46.3  | 1.6  |
| 57°   | 259.7  | 258.6  | 228.0  | 191.9  | 150.5  | 119.3 | 86.3  | 63.8  | 45.9  | 35.9  | 1.3  |
| 58°   | 168.5  | 162.9  | 143.3  | 122.4  | 98.5   | 74.5  | 55.5  | 43.3  | 31.2  | 24.5  | 1.1  |
| 59°   | 118.1  | 106.8  | 96.3   | 81.6   | 62.0   | 47.0  | 35.7  | 27.8  | 21.6  | 17.0  | 0.7  |
| 60°   | 72.5   | 70.2   | 63.1   | 49.7   | 40.3   | 33.2  | 26.7  | 20.5  | 15.8  | 12.2  | 0.4  |
| 62.5° | 20.7   | 21.0   | 19.0   | 16.9   | 14.5   | 12.5  | 11.2  | 9.6   | 8.0   | 6.3   | 0.0  |
| 65°   | 4.7    | 4.5    | 4.9    | 4.5    | 4.2    | 4.2   | 3.6   | 3.3   | 2.9   | 2.7   | 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° | 1.5 | 1.5  | 1.3 | 1.3  | 1.3 | 1.1   | 1.1 | 0.9   | 0.9 | 0.7   | 0.0 |
| 70°   | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.4   | 0.4 | 0.4   | 0.2 | 0.2   | 0.0 |
| 72.5° | 0.5 | 0.5  | 0.5 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.2 | 0.2   | 0.2 |
| 75°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.2   | 0.2 | 0.2   | 0.2 |
| 77.5° | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.2   | 0.4 | 0.2   | 0.2 | 0.2   | 0.2 |
| 80°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 |
| 82.5° | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 |
| 85°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.0 | 0.0   | 0.2 | 0.2   | 0.2 | 0.0   | 0.2 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.2 |
| 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°    | 13.4  | 13.4 | 13.4   | 13.4 | 13.4   | 13.4 |
| 2.5°  | 14.0  | 13.2 | 12.7   | 12.2 | 12.0   | 12.0 |
| 5°    | 13.6  | 12.5 | 11.4   | 10.9 | 10.5   | 10.5 |
| 7.5°  | 12.5  | 11.2 | 10.2   | 9.6  | 9.4    | 9.4  |
| 10°   | 11.2  | 9.8  | 8.7    | 8.3  | 8.3    | 8.2  |
| 12.5° | 9.8   | 8.3  | 7.6    | 7.4  | 7.4    | 7.4  |
| 15°   | 8.2   | 7.1  | 6.5    | 6.5  | 6.7    | 6.9  |
| 17.5° | 6.9   | 5.8  | 5.6    | 6.0  | 6.3    | 6.3  |
| 20°   | 5.8   | 5.1  | 5.1    | 5.4  | 5.8    | 6.0  |
| 22.5° | 4.9   | 4.4  | 4.5    | 5.1  | 5.6    | 5.8  |
| 25°   | 4.4   | 3.8  | 4.2    | 4.7  | 5.3    | 5.6  |
| 27.5° | 3.6   | 3.4  | 3.8    | 4.5  | 5.3    | 5.4  |
| 30°   | 3.1   | 3.1  | 3.6    | 4.4  | 5.1    | 5.3  |
| 31°   | 2.9   | 2.9  | 3.6    | 4.4  | 5.1    | 5.3  |
| 32°   | 2.7   | 2.9  | 3.4    | 4.4  | 5.1    | 5.3  |
| 33°   | 2.5   | 2.7  | 3.4    | 4.2  | 5.1    | 5.3  |
| 34°   | 2.4   | 2.7  | 3.4    | 4.2  | 5.1    | 5.3  |
| 35°   | 2.2   | 2.7  | 3.4    | 4.2  | 5.1    | 5.3  |
| 36°   | 2.0   | 2.5  | 3.3    | 4.2  | 5.1    | 5.3  |
| 37°   | 1.8   | 2.5  | 3.3    | 4.2  | 5.1    | 5.3  |
| 38°   | 1.6   | 2.4  | 3.3    | 4.2  | 5.1    | 5.3  |
| 39°   | 1.6   | 2.4  | 3.1    | 4.2  | 4.9    | 5.3  |
| 40°   | 1.5   | 2.2  | 3.1    | 4.2  | 4.9    | 5.3  |
| 41°   | 1.3   | 2.2  | 3.1    | 4.0  | 4.9    | 5.3  |
| 42°   | 1.1   | 2.0  | 2.9    | 4.0  | 4.9    | 5.3  |
| 43°   | 0.9   | 2.0  | 2.9    | 4.0  | 4.9    | 5.3  |
| 44°   | 0.9   | 1.8  | 2.9    | 4.0  | 4.9    | 5.3  |
| 45°   | 0.7   | 1.8  | 2.9    | 4.0  | 4.9    | 5.3  |
| 46°   | 0.5   | 1.8  | 2.9    | 4.0  | 4.9    | 5.3  |
| 47°   | 0.5   | 1.6  | 2.7    | 4.0  | 4.9    | 5.3  |
| 48°   | 0.4   | 1.6  | 2.7    | 4.0  | 4.9    | 5.3  |
| 49°   | 0.4   | 1.6  | 2.7    | 4.0  | 4.9    | 5.4  |
| 50°   | 0.4   | 1.6  | 2.7    | 3.8  | 4.9    | 5.4  |
| 51°   | 0.2   | 1.6  | 2.7    | 3.8  | 4.9    | 5.4  |
| 52°   | 0.2   | 1.6  | 2.5    | 3.8  | 5.1    | 5.4  |
| 53°   | 0.2   | 1.5  | 2.5    | 3.8  | 5.1    | 5.4  |
| 54°   | 0.2   | 1.5  | 2.5    | 3.8  | 5.1    | 5.3  |
| 55°   | 0.2   | 1.5  | 2.5    | 3.8  | 4.9    | 5.3  |
| 56°   | 0.2   | 1.3  | 2.5    | 3.8  | 4.9    | 5.3  |
| 57°   | 0.2   | 1.3  | 2.4    | 3.6  | 4.9    | 5.1  |
| 58°   | 0.2   | 1.3  | 2.4    | 3.6  | 4.9    | 5.1  |
| 59°   | 0.2   | 1.3  | 2.4    | 3.6  | 4.7    | 5.1  |
| 60°   | 0.4   | 1.1  | 2.2    | 3.4  | 4.7    | 5.1  |
| 62.5° | 0.4   | 1.1  | 2.2    | 3.4  | 4.5    | 4.9  |
| 65°   | 0.4   | 1.1  | 2.0    | 3.3  | 4.5    | 4.9  |



TEST NUMBER: P1336970

CATALOG NUMBER: P3A05R209830DE010 E3A451H

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.4   | 0.9 | 1.8    | 3.1  | 4.4    | 4.7  |
| 70°   | 0.4   | 1.1 | 1.8    | 2.9  | 4.2    | 4.5  |
| 72.5° | 0.5   | 0.9 | 1.6    | 2.7  | 4.0    | 4.4  |
| 75°   | 0.5   | 0.9 | 1.6    | 2.5  | 3.8    | 4.0  |
| 77.5° | 0.7   | 0.9 | 1.5    | 2.2  | 3.4    | 3.6  |
| 80°   | 0.7   | 0.9 | 1.3    | 1.8  | 2.9    | 3.1  |
| 82.5° | 0.7   | 0.9 | 0.9    | 1.5  | 2.2    | 2.4  |
| 85°   | 0.5   | 0.7 | 0.7    | 0.9  | 1.5    | 1.6  |
| 87.5° | 0.5   | 0.7 | 0.5    | 0.4  | 0.7    | 0.7  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)