

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: P1336817

Luminaire Tested: P3A05R209030D2WDE010 E3A451GPH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1336817  
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: P3A05R209030D2WDE010 E3A451GPH  
Description: 3in Adjustable Dim to Warm LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,  
E3A451GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

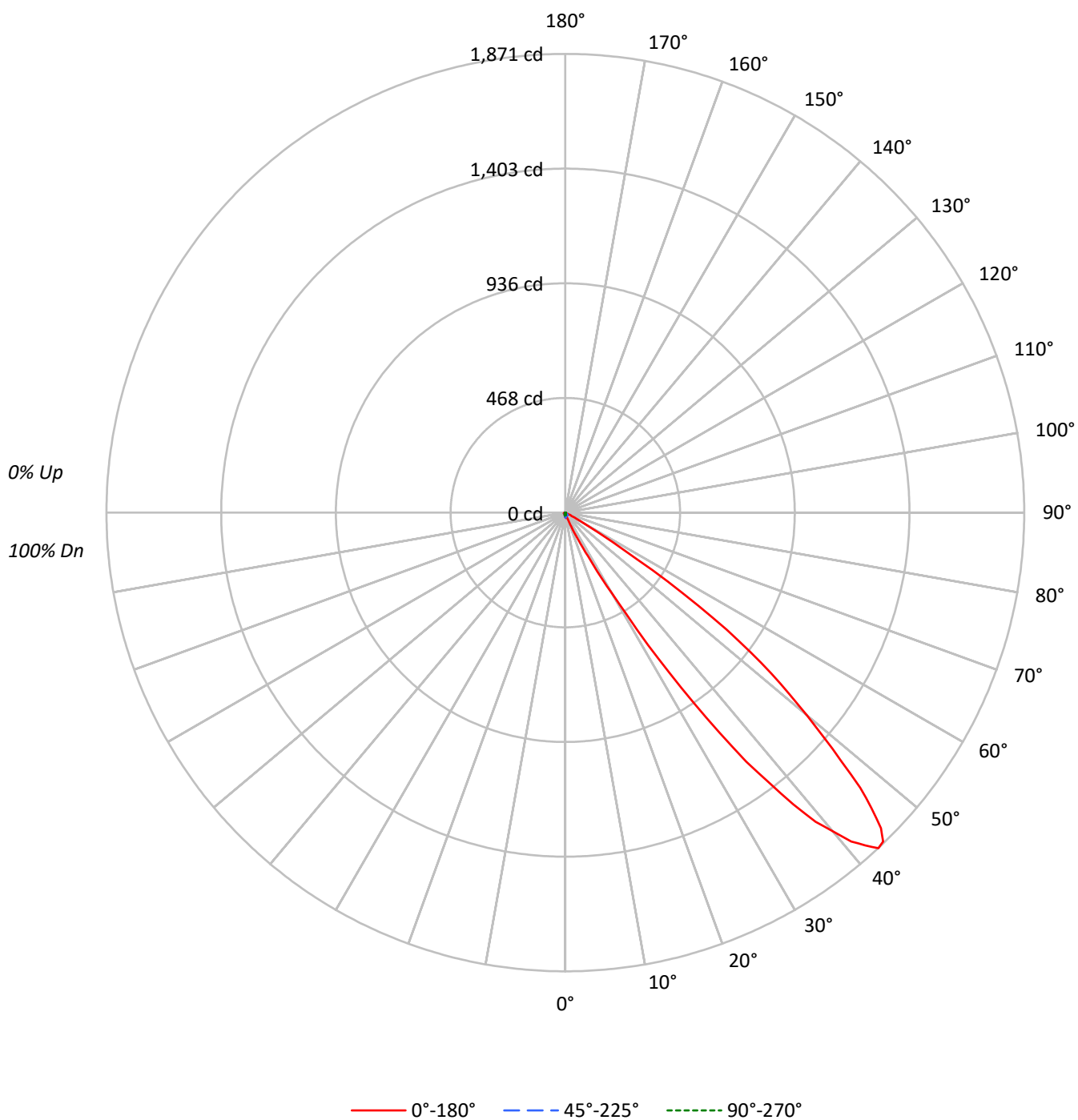
Lumens per Lamp: N/A  
Luminaire Lumens: 260.0 lumens  
Efficiency: N/A  
Efficacy: 23.4 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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°  | 3969   | 3969 | 3969 | 3969 | 3969 |
| 5°  | 4622   | 4292 | 3720 | 3236 | 3126 |
| 10° | 4565   | 3919 | 2939 | 2494 | 2449 |
| 15° | 3995   | 2997 | 2157 | 1998 | 2111 |
| 20° | 5927   | 2520 | 1587 | 1703 | 1890 |
| 25° | 25550  | 2613 | 1234 | 1548 | 1839 |
| 30° | 96572  | 3165 | 1063 | 1494 | 1798 |
| 35° | 292775 | 3801 | 990  | 1499 | 1901 |
| 40° | 485481 | 3779 | 830  | 1603 | 2032 |
| 45° | 564276 | 2574 | 744  | 1675 | 2202 |
| 50° | 438024 | 1433 | 751  | 1740 | 2490 |
| 55° | 253506 | 918  | 765  | 1950 | 2714 |
| 60° | 42847  | 219  | 658  | 2017 | 2982 |
| 65° | 3321   | 0    | 778  | 2283 | 3424 |
| 70° | 449    | 0    | 962  | 2500 | 3911 |
| 75° | 424    | 169  | 1017 | 2881 | 4575 |
| 80° | 253    | 253  | 1515 | 3031 | 5304 |
| 85° | 503    | 503  | 2516 | 3019 | 5535 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 564276 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.6    | 0.6       |
| 10°-20°   | 3.3    | 1.3       |
| 20°-30°   | 10.4   | 4.0       |
| 30°-40°   | 66.3   | 25.5      |
| 40°-50°   | 121.4  | 46.7      |
| 50°-60°   | 49.9   | 19.2      |
| 60°-70°   | 4.2    | 1.6       |
| 70°-80°   | 2.1    | 0.8       |
| 80°-90°   | 1.0    | 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°    | 15.2   | 5.8       |
| 0°-40°    | 81.5   | 31.3      |
| 0°-60°    | 252.7  | 97.2      |
| 0°-90°    | 260.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 260.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 18   | 18  | 18  | 18   | 18   |      |
| 5°  | 21   | 20  | 17  | 15   | 14   | 2    |
| 15° | 18   | 13  | 10  | 9    | 9    | 6    |
| 25° | 106  | 11  | 5   | 6    | 8    | 69   |
| 35° | 1094 | 14  | 4   | 6    | 7    | 692  |
| 45° | 1820 | 8   | 2   | 5    | 7    | 1306 |
| 55° | 663  | 2   | 2   | 5    | 7    | 580  |
| 65° | 6    | 0   | 2   | 4    | 7    | 21   |
| 75° | 0    | 0   | 1   | 3    | 5    | 1    |
| 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°    | 18.1   | 18.1   | 18.1   | 18.1   | 18.1   | 18.1   | 18.1  | 18.1  | 18.1  | 18.1  | 18.1 |
| 2.5°  | 19.8   | 19.8   | 19.8   | 19.5   | 19.5   | 19.8   | 19.5  | 19.5  | 19.5  | 19.5  | 19.3 |
| 5°    | 21.0   | 21.0   | 21.0   | 21.0   | 21.0   | 21.0   | 21.0  | 20.8  | 20.8  | 20.5  | 19.5 |
| 7.5°  | 21.5   | 21.5   | 21.5   | 21.5   | 21.3   | 21.3   | 21.3  | 21.3  | 21.0  | 20.8  | 19.1 |
| 10°   | 20.5   | 20.5   | 20.5   | 20.3   | 20.3   | 20.3   | 20.0  | 20.0  | 19.8  | 19.5  | 17.6 |
| 12.5° | 18.6   | 18.6   | 18.6   | 18.6   | 18.3   | 18.3   | 18.1  | 18.1  | 17.8  | 17.6  | 15.4 |
| 15°   | 17.6   | 17.6   | 17.6   | 17.3   | 17.3   | 17.1   | 16.9  | 16.6  | 16.4  | 15.9  | 13.2 |
| 17.5° | 19.1   | 19.1   | 18.8   | 18.8   | 18.3   | 17.8   | 17.6  | 16.9  | 16.4  | 15.6  | 11.7 |
| 20°   | 25.4   | 25.7   | 24.7   | 23.9   | 23.5   | 22.0   | 21.3  | 20.0  | 19.1  | 17.8  | 10.8 |
| 22.5° | 51.3   | 50.3   | 48.6   | 45.9   | 42.8   | 40.1   | 35.2  | 31.3  | 28.6  | 24.9  | 10.5 |
| 25°   | 105.6  | 104.6  | 99.9   | 96.0   | 86.3   | 78.7   | 68.2  | 59.6  | 50.8  | 42.3  | 10.8 |
| 27.5° | 200.6  | 194.0  | 192.8  | 174.9  | 161.3  | 141.7  | 121.4 | 104.3 | 88.7  | 71.3  | 11.5 |
| 30°   | 381.4  | 373.8  | 347.2  | 320.3  | 283.4  | 241.7  | 201.8 | 164.7 | 133.7 | 105.6 | 12.5 |
| 31°   | 484.0  | 491.4  | 460.1  | 406.1  | 351.6  | 298.1  | 243.6 | 196.4 | 156.4 | 121.4 | 12.9 |
| 32°   | 636.3  | 604.3  | 571.3  | 515.8  | 436.6  | 368.2  | 299.8 | 231.9 | 179.1 | 138.5 | 13.4 |
| 33°   | 780.2  | 761.4  | 711.0  | 641.9  | 546.8  | 450.8  | 362.1 | 273.7 | 207.0 | 159.3 | 13.7 |
| 34°   | 933.6  | 912.9  | 872.0  | 772.8  | 668.5  | 542.7  | 424.4 | 321.8 | 240.2 | 179.6 | 13.9 |
| 35°   | 1093.7 | 1084.9 | 1006.2 | 920.2  | 791.9  | 640.2  | 499.4 | 374.6 | 272.7 | 198.2 | 14.2 |
| 36°   | 1254.7 | 1226.3 | 1164.8 | 1039.2 | 905.3  | 730.3  | 578.1 | 423.7 | 305.7 | 220.1 | 14.2 |
| 37°   | 1375.9 | 1369.5 | 1287.9 | 1165.5 | 1008.1 | 826.6  | 646.0 | 478.2 | 338.9 | 239.0 | 14.2 |
| 38°   | 1509.5 | 1484.4 | 1401.5 | 1276.9 | 1104.9 | 914.8  | 717.1 | 525.6 | 370.4 | 256.1 | 13.9 |
| 39°   | 1622.2 | 1584.8 | 1501.2 | 1378.1 | 1189.4 | 981.8  | 773.6 | 571.5 | 398.3 | 270.2 | 13.7 |
| 40°   | 1696.0 | 1670.1 | 1582.8 | 1444.3 | 1266.2 | 1045.0 | 830.8 | 609.4 | 419.0 | 281.0 | 13.2 |
| 41°   | 1777.3 | 1734.3 | 1648.1 | 1508.8 | 1321.9 | 1100.7 | 866.7 | 634.3 | 435.2 | 288.1 | 12.7 |
| 42°   | 1825.9 | 1790.8 | 1688.4 | 1552.0 | 1361.7 | 1132.5 | 896.0 | 653.4 | 444.9 | 291.7 | 11.7 |
| 43°   | 1871.4 | 1823.5 | 1723.8 | 1577.2 | 1388.1 | 1155.0 | 909.4 | 662.2 | 447.1 | 291.7 | 10.5 |
| 44°   | 1865.3 | 1819.8 | 1716.5 | 1580.6 | 1394.0 | 1161.6 | 915.0 | 662.4 | 443.7 | 288.1 | 9.3  |
| 45°   | 1819.6 | 1774.4 | 1681.3 | 1550.8 | 1372.9 | 1148.6 | 903.8 | 652.6 | 434.2 | 281.7 | 8.3  |
| 46°   | 1735.8 | 1690.8 | 1619.5 | 1501.0 | 1333.8 | 1119.3 | 877.7 | 631.4 | 418.3 | 271.5 | 7.3  |
| 47°   | 1644.6 | 1600.9 | 1527.9 | 1420.6 | 1267.1 | 1067.0 | 839.8 | 601.6 | 396.1 | 256.6 | 6.6  |
| 48°   | 1512.5 | 1485.1 | 1411.8 | 1320.2 | 1174.5 | 985.2  | 773.3 | 552.9 | 366.3 | 237.3 | 5.6  |
| 49°   | 1395.7 | 1366.8 | 1302.6 | 1204.1 | 1053.8 | 889.9  | 693.9 | 493.8 | 327.4 | 215.8 | 4.9  |
| 50°   | 1284.0 | 1258.8 | 1199.5 | 1088.3 | 944.9  | 774.8  | 586.7 | 419.3 | 278.5 | 189.1 | 4.2  |
| 51°   | 1174.8 | 1156.0 | 1095.4 | 993.2  | 847.6  | 686.3  | 508.2 | 349.2 | 230.2 | 156.9 | 3.9  |
| 52°   | 1065.1 | 1062.9 | 997.1  | 893.8  | 753.1  | 598.1  | 432.0 | 294.7 | 195.2 | 131.7 | 3.7  |
| 53°   | 947.1  | 932.9  | 875.5  | 782.6  | 647.5  | 506.3  | 366.3 | 248.5 | 168.1 | 112.2 | 3.2  |
| 54°   | 812.7  | 796.8  | 735.2  | 651.4  | 529.0  | 414.6  | 295.2 | 200.8 | 140.0 | 94.8  | 2.9  |
| 55°   | 663.1  | 636.0  | 591.3  | 505.3  | 413.2  | 316.4  | 228.0 | 159.1 | 111.9 | 78.9  | 2.4  |
| 56°   | 503.1  | 476.0  | 450.8  | 387.5  | 303.2  | 236.0  | 169.8 | 121.9 | 87.5  | 62.3  | 2.2  |
| 57°   | 349.9  | 348.4  | 307.1  | 258.5  | 202.8  | 160.8  | 116.3 | 86.0  | 61.8  | 48.4  | 1.7  |
| 58°   | 227.0  | 219.4  | 193.0  | 164.9  | 132.7  | 100.4  | 74.8  | 58.4  | 42.0  | 33.0  | 1.5  |
| 59°   | 159.1  | 143.9  | 129.7  | 110.0  | 83.6   | 63.3   | 48.1  | 37.4  | 29.1  | 23.0  | 1.0  |
| 60°   | 97.7   | 94.6   | 85.0   | 66.9   | 54.2   | 44.7   | 35.9  | 27.6  | 21.3  | 16.4  | 0.5  |
| 62.5° | 27.9   | 28.3   | 25.7   | 22.7   | 19.5   | 16.9   | 15.1  | 12.9  | 10.8  | 8.6   | 0.0  |
| 65°   | 6.4    | 6.1    | 6.6    | 6.1    | 5.6    | 5.6    | 4.9   | 4.4   | 3.9   | 3.7   | 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° | 2.0 | 2.0  | 1.7 | 1.7  | 1.7 | 1.5   | 1.5 | 1.2   | 1.2 | 1.0   | 0.0 |
| 70°   | 0.7 | 0.7  | 0.7 | 0.7  | 0.7 | 0.5   | 0.5 | 0.5   | 0.2 | 0.2   | 0.0 |
| 72.5° | 0.7 | 0.7  | 0.7 | 0.5  | 0.5 | 0.5   | 0.5 | 0.5   | 0.2 | 0.2   | 0.2 |
| 75°   | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.5   | 0.5 | 0.2   | 0.2 | 0.2   | 0.2 |
| 77.5° | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.2   | 0.5 | 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°    | 18.1  | 18.1 | 18.1   | 18.1 | 18.1   | 18.1 |
| 2.5°  | 18.8  | 17.8 | 17.1   | 16.4 | 16.1   | 16.1 |
| 5°    | 18.3  | 16.9 | 15.4   | 14.7 | 14.2   | 14.2 |
| 7.5°  | 16.9  | 15.1 | 13.7   | 12.9 | 12.7   | 12.7 |
| 10°   | 15.1  | 13.2 | 11.7   | 11.2 | 11.2   | 11.0 |
| 12.5° | 13.2  | 11.2 | 10.3   | 10.0 | 10.0   | 10.0 |
| 15°   | 11.0  | 9.5  | 8.8    | 8.8  | 9.0    | 9.3  |
| 17.5° | 9.3   | 7.8  | 7.6    | 8.1  | 8.6    | 8.6  |
| 20°   | 7.8   | 6.8  | 6.8    | 7.3  | 7.8    | 8.1  |
| 22.5° | 6.6   | 5.9  | 6.1    | 6.8  | 7.6    | 7.8  |
| 25°   | 5.9   | 5.1  | 5.6    | 6.4  | 7.1    | 7.6  |
| 27.5° | 4.9   | 4.6  | 5.1    | 6.1  | 7.1    | 7.3  |
| 30°   | 4.2   | 4.2  | 4.9    | 5.9  | 6.8    | 7.1  |
| 31°   | 3.9   | 3.9  | 4.9    | 5.9  | 6.8    | 7.1  |
| 32°   | 3.7   | 3.9  | 4.6    | 5.9  | 6.8    | 7.1  |
| 33°   | 3.4   | 3.7  | 4.6    | 5.6  | 6.8    | 7.1  |
| 34°   | 3.2   | 3.7  | 4.6    | 5.6  | 6.8    | 7.1  |
| 35°   | 2.9   | 3.7  | 4.6    | 5.6  | 6.8    | 7.1  |
| 36°   | 2.7   | 3.4  | 4.4    | 5.6  | 6.8    | 7.1  |
| 37°   | 2.4   | 3.4  | 4.4    | 5.6  | 6.8    | 7.1  |
| 38°   | 2.2   | 3.2  | 4.4    | 5.6  | 6.8    | 7.1  |
| 39°   | 2.2   | 3.2  | 4.2    | 5.6  | 6.6    | 7.1  |
| 40°   | 2.0   | 2.9  | 4.2    | 5.6  | 6.6    | 7.1  |
| 41°   | 1.7   | 2.9  | 4.2    | 5.4  | 6.6    | 7.1  |
| 42°   | 1.5   | 2.7  | 3.9    | 5.4  | 6.6    | 7.1  |
| 43°   | 1.2   | 2.7  | 3.9    | 5.4  | 6.6    | 7.1  |
| 44°   | 1.2   | 2.4  | 3.9    | 5.4  | 6.6    | 7.1  |
| 45°   | 1.0   | 2.4  | 3.9    | 5.4  | 6.6    | 7.1  |
| 46°   | 0.7   | 2.4  | 3.9    | 5.4  | 6.6    | 7.1  |
| 47°   | 0.7   | 2.2  | 3.7    | 5.4  | 6.6    | 7.1  |
| 48°   | 0.5   | 2.2  | 3.7    | 5.4  | 6.6    | 7.1  |
| 49°   | 0.5   | 2.2  | 3.7    | 5.4  | 6.6    | 7.3  |
| 50°   | 0.5   | 2.2  | 3.7    | 5.1  | 6.6    | 7.3  |
| 51°   | 0.2   | 2.2  | 3.7    | 5.1  | 6.6    | 7.3  |
| 52°   | 0.2   | 2.2  | 3.4    | 5.1  | 6.8    | 7.3  |
| 53°   | 0.2   | 2.0  | 3.4    | 5.1  | 6.8    | 7.3  |
| 54°   | 0.2   | 2.0  | 3.4    | 5.1  | 6.8    | 7.1  |
| 55°   | 0.2   | 2.0  | 3.4    | 5.1  | 6.6    | 7.1  |
| 56°   | 0.2   | 1.7  | 3.4    | 5.1  | 6.6    | 7.1  |
| 57°   | 0.2   | 1.7  | 3.2    | 4.9  | 6.6    | 6.8  |
| 58°   | 0.2   | 1.7  | 3.2    | 4.9  | 6.6    | 6.8  |
| 59°   | 0.2   | 1.7  | 3.2    | 4.9  | 6.4    | 6.8  |
| 60°   | 0.5   | 1.5  | 2.9    | 4.6  | 6.4    | 6.8  |
| 62.5° | 0.5   | 1.5  | 2.9    | 4.6  | 6.1    | 6.6  |
| 65°   | 0.5   | 1.5  | 2.7    | 4.4  | 6.1    | 6.6  |



TEST NUMBER: P1336817

CATALOG NUMBER: P3A05R209030D2WDE010 E3A451GPH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.5   | 1.2 | 2.4    | 4.2  | 5.9    | 6.4  |
| 70°   | 0.5   | 1.5 | 2.4    | 3.9  | 5.6    | 6.1  |
| 72.5° | 0.7   | 1.2 | 2.2    | 3.7  | 5.4    | 5.9  |
| 75°   | 0.7   | 1.2 | 2.2    | 3.4  | 5.1    | 5.4  |
| 77.5° | 1.0   | 1.2 | 2.0    | 2.9  | 4.6    | 4.9  |
| 80°   | 1.0   | 1.2 | 1.7    | 2.4  | 3.9    | 4.2  |
| 82.5° | 1.0   | 1.2 | 1.2    | 2.0  | 2.9    | 3.2  |
| 85°   | 0.7   | 1.0 | 1.0    | 1.2  | 2.0    | 2.2  |
| 87.5° | 0.7   | 1.0 | 0.7    | 0.5  | 1.0    | 1.0  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)