

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: P1343482

Luminaire Tested: P3A13R159727DE010 E3A451H

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1343482  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R159727DE010 E3A451H  
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , E3A451H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

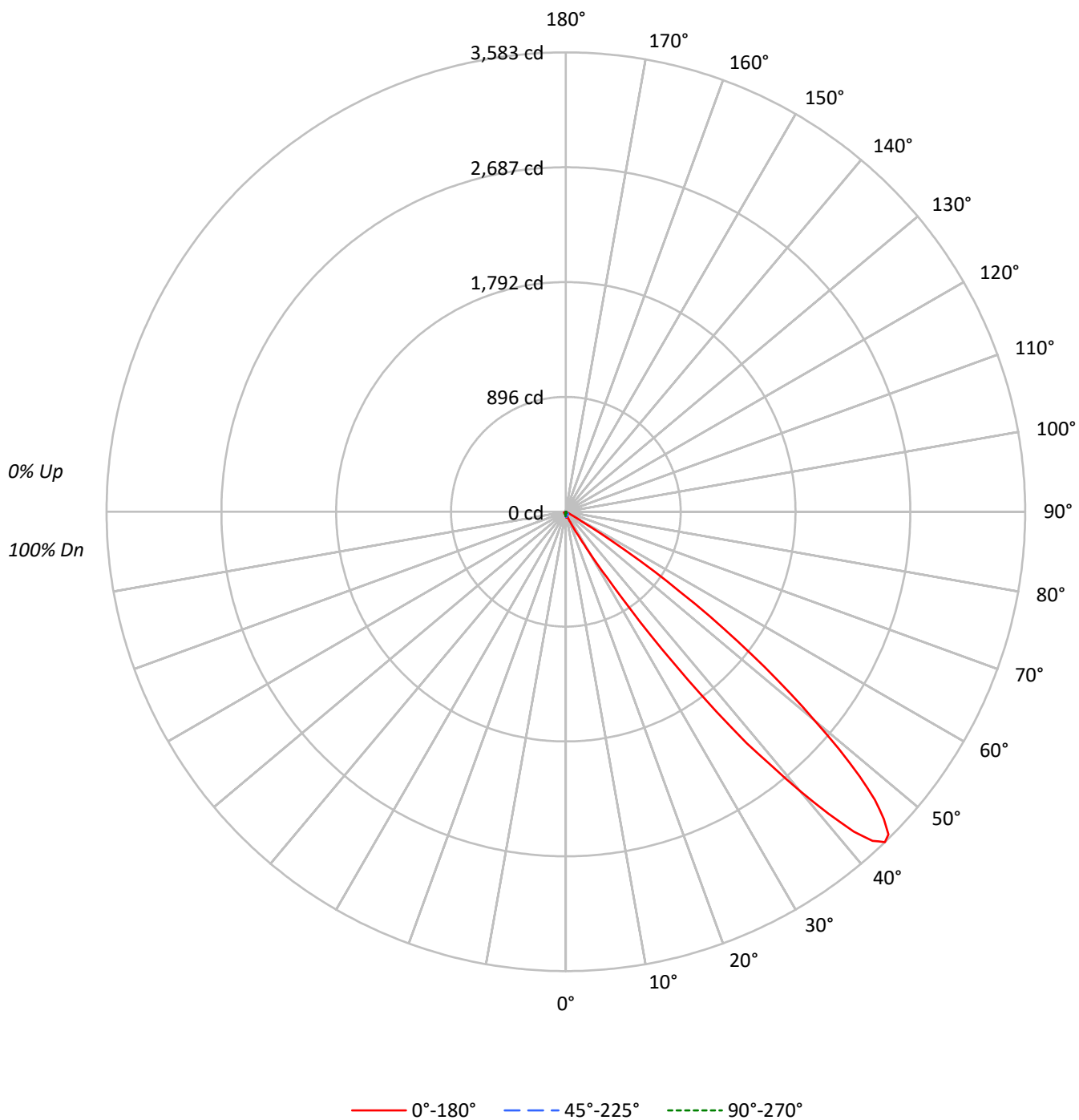
Lumens per Lamp: N/A  
Luminaire Lumens: 400.1 lumens  
Efficiency: N/A  
Efficacy: 27.4 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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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### 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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  |
| 2   | 101 | 93  | 87  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 53  |
| 5   | 75  | 62  | 52  | 46  | 73  | 61  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 55  | 49  | 44  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 42  | 37  |
| 7   | 62  | 47  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 36  | 31  |
| 8   | 56  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 26  | 39  | 31  | 26  | 37  | 31  | 26  |
| 9   | 52  | 37  | 28  | 22  | 50  | 37  | 28  | 22  | 35  | 28  | 22  | 34  | 27  | 22  | 33  | 27  | 22  |
| 10  | 48  | 33  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 24  | 19  | 31  | 24  | 19  | 30  | 23  | 19  |

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

|     | 0°      | 45°  | 90°  | 135° | 180°  |
|-----|---------|------|------|------|-------|
| 0°  | 7784    | 7784 | 7784 | 7784 | 7784  |
| 5°  | 9663    | 8607 | 7022 | 6141 | 6053  |
| 10° | 9508    | 7370 | 5411 | 4787 | 4876  |
| 15° | 7877    | 5244 | 3905 | 3973 | 4245  |
| 20° | 13675   | 4177 | 2987 | 3454 | 3920  |
| 25° | 30486   | 5008 | 2419 | 3194 | 3678  |
| 30° | 91204   | 6153 | 2127 | 3140 | 3849  |
| 35° | 351052  | 6933 | 1927 | 3212 | 4069  |
| 40° | 814812  | 6040 | 1832 | 3321 | 4351  |
| 45° | 1103618 | 4590 | 1613 | 3597 | 4714  |
| 50° | 865336  | 2729 | 1637 | 3821 | 5185  |
| 55° | 415335  | 1223 | 1529 | 4129 | 5658  |
| 60° | 37936   | 175  | 1403 | 4386 | 6315  |
| 65° | 4151    | 0    | 1245 | 4566 | 6849  |
| 70° | 1026    | 0    | 1539 | 4873 | 7437  |
| 75° | 1017    | 339  | 2033 | 5422 | 8472  |
| 80° | 1010    | 1010 | 2526 | 5556 | 9092  |
| 85° | 1006    | 1006 | 4026 | 5032 | 10064 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1103618 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.0    | 0.8       |
| 10°-20°   | 6.3    | 1.6       |
| 20°-30°   | 15.1   | 3.8       |
| 30°-40°   | 82.8   | 20.7      |
| 40°-50°   | 200.4  | 50.1      |
| 50°-60°   | 79.9   | 20.0      |
| 60°-70°   | 6.9    | 1.7       |
| 70°-80°   | 3.9    | 1.0       |
| 80°-90°   | 1.7    | 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°    | 24.5   | 6.1       |
| 0°-40°    | 107.2  | 26.8      |
| 0°-60°    | 387.5  | 96.9      |
| 0°-90°    | 400.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 400.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 36   | 36  | 36  | 36   | 36   |      |
| 5°  | 44   | 39  | 32  | 28   | 28   | 4    |
| 15° | 35   | 23  | 17  | 18   | 19   | 12   |
| 25° | 126  | 21  | 10  | 13   | 15   | 76   |
| 35° | 1311 | 26  | 7   | 12   | 15   | 927  |
| 45° | 3559 | 15  | 5   | 12   | 15   | 2510 |
| 55° | 1086 | 3   | 4   | 11   | 15   | 1012 |
| 65° | 8    | 0   | 2   | 9    | 13   | 20   |
| 75° | 1    | 0   | 2   | 6    | 10   | 1    |
| 85° | 0    | 0   | 2   | 2    | 4    | 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°    | 35.5   | 35.5   | 35.5   | 35.5   | 35.5   | 35.5   | 35.5   | 35.5  | 35.5  | 35.5  | 35.5 |
| 2.5°  | 39.9   | 39.9   | 40.3   | 39.9   | 39.9   | 39.9   | 39.9   | 39.5  | 39.5  | 39.5  | 38.3 |
| 5°    | 43.9   | 43.9   | 43.9   | 43.9   | 43.5   | 43.5   | 43.5   | 43.1  | 43.1  | 42.7  | 39.1 |
| 7.5°  | 45.5   | 45.5   | 45.1   | 45.1   | 44.7   | 44.7   | 44.3   | 43.9  | 43.5  | 43.1  | 37.5 |
| 10°   | 42.7   | 42.7   | 42.7   | 42.3   | 42.3   | 41.9   | 41.5   | 41.1  | 40.7  | 39.9  | 33.1 |
| 12.5° | 37.9   | 37.9   | 38.3   | 37.9   | 37.5   | 37.1   | 36.3   | 35.9  | 35.5  | 34.7  | 27.5 |
| 15°   | 34.7   | 34.7   | 34.7   | 34.3   | 33.9   | 33.1   | 32.7   | 31.9  | 31.5  | 30.3  | 23.1 |
| 17.5° | 44.3   | 44.3   | 43.9   | 43.1   | 41.5   | 40.3   | 38.3   | 36.7  | 34.7  | 32.3  | 19.9 |
| 20°   | 58.6   | 58.6   | 57.8   | 57.0   | 55.0   | 53.0   | 49.9   | 47.1  | 43.9  | 41.1  | 17.9 |
| 22.5° | 85.0   | 86.1   | 83.8   | 81.0   | 78.2   | 73.4   | 69.0   | 64.6  | 59.0  | 54.2  | 18.3 |
| 25°   | 126.0  | 127.2  | 126.0  | 119.7  | 114.5  | 108.1  | 99.7   | 90.9  | 81.4  | 72.6  | 20.7 |
| 27.5° | 204.2  | 205.0  | 203.0  | 187.5  | 179.1  | 162.3  | 147.6  | 133.2 | 117.3 | 101.3 | 22.7 |
| 30°   | 360.2  | 360.5  | 347.8  | 316.7  | 289.2  | 252.5  | 221.4  | 191.4 | 166.3 | 140.8 | 24.3 |
| 31°   | 474.2  | 463.1  | 435.9  | 398.4  | 354.6  | 305.1  | 262.4  | 223.7 | 186.3 | 158.7 | 24.7 |
| 32°   | 602.2  | 600.6  | 555.6  | 490.6  | 431.9  | 370.1  | 305.9  | 256.5 | 213.4 | 175.9 | 25.1 |
| 33°   | 771.8  | 772.5  | 701.6  | 625.0  | 528.9  | 445.9  | 361.7  | 293.9 | 242.1 | 196.2 | 25.9 |
| 34°   | 1036.6 | 974.4  | 891.0  | 787.3  | 656.5  | 531.7  | 422.4  | 337.4 | 268.0 | 215.8 | 25.9 |
| 35°   | 1311.4 | 1248.8 | 1157.0 | 999.9  | 820.4  | 645.7  | 494.6  | 384.1 | 299.1 | 236.9 | 25.9 |
| 36°   | 1619.3 | 1566.2 | 1427.4 | 1226.8 | 997.9  | 753.4  | 571.1  | 437.9 | 329.8 | 256.1 | 25.5 |
| 37°   | 1951.9 | 1874.1 | 1720.2 | 1501.2 | 1194.9 | 905.0  | 664.5  | 491.4 | 360.5 | 276.8 | 24.7 |
| 38°   | 2289.7 | 2219.5 | 2025.3 | 1760.1 | 1430.2 | 1064.9 | 757.8  | 542.8 | 388.9 | 292.3 | 23.5 |
| 39°   | 2545.8 | 2507.5 | 2314.9 | 2018.5 | 1618.1 | 1216.5 | 853.9  | 597.9 | 418.8 | 307.9 | 22.3 |
| 40°   | 2846.5 | 2784.7 | 2602.0 | 2235.5 | 1840.2 | 1370.8 | 948.0  | 646.5 | 443.5 | 320.3 | 21.1 |
| 41°   | 3120.9 | 3042.7 | 2812.2 | 2458.0 | 2018.1 | 1509.6 | 1037.4 | 696.8 | 463.4 | 327.4 | 20.3 |
| 42°   | 3356.2 | 3265.3 | 3024.4 | 2648.7 | 2166.9 | 1620.5 | 1108.8 | 732.7 | 482.2 | 333.4 | 19.1 |
| 43°   | 3508.6 | 3430.0 | 3193.1 | 2791.9 | 2294.1 | 1722.2 | 1175.4 | 770.2 | 493.8 | 337.4 | 17.5 |
| 44°   | 3582.8 | 3503.4 | 3274.1 | 2881.6 | 2372.3 | 1783.2 | 1218.4 | 796.1 | 506.5 | 342.6 | 16.4 |
| 45°   | 3558.8 | 3478.3 | 3256.5 | 2883.2 | 2396.6 | 1805.1 | 1236.8 | 807.6 | 513.3 | 347.4 | 14.8 |
| 46°   | 3449.1 | 3392.5 | 3169.2 | 2808.2 | 2350.4 | 1781.6 | 1226.4 | 798.9 | 510.9 | 347.4 | 13.2 |
| 47°   | 3295.2 | 3230.6 | 3018.0 | 2679.4 | 2238.3 | 1721.0 | 1184.5 | 772.1 | 496.2 | 339.4 | 11.6 |
| 48°   | 3085.4 | 3030.4 | 2807.0 | 2474.8 | 2066.4 | 1589.0 | 1090.0 | 728.7 | 473.0 | 323.9 | 10.0 |
| 49°   | 2822.2 | 2745.6 | 2537.8 | 2213.2 | 1842.2 | 1401.5 | 966.0  | 655.3 | 435.9 | 301.9 | 8.8  |
| 50°   | 2536.6 | 2442.1 | 2281.8 | 1951.1 | 1610.5 | 1201.7 | 802.9  | 554.0 | 383.7 | 273.2 | 8.0  |
| 51°   | 2257.0 | 2160.9 | 2008.1 | 1727.0 | 1363.2 | 997.1  | 647.7  | 442.3 | 315.9 | 233.7 | 6.8  |
| 52°   | 1967.1 | 1886.5 | 1715.4 | 1494.4 | 1167.0 | 808.0  | 539.6  | 374.1 | 262.4 | 196.2 | 5.6  |
| 53°   | 1678.3 | 1623.3 | 1460.5 | 1236.8 | 937.7  | 660.1  | 440.7  | 320.3 | 228.9 | 167.9 | 4.4  |
| 54°   | 1389.2 | 1328.9 | 1205.3 | 1005.9 | 755.8  | 520.9  | 373.7  | 268.0 | 198.6 | 146.4 | 4.0  |
| 55°   | 1086.4 | 1055.3 | 941.3  | 767.0  | 572.7  | 415.6  | 303.1  | 230.5 | 166.3 | 122.4 | 3.2  |
| 56°   | 836.8  | 801.7  | 697.6  | 556.4  | 425.6  | 325.5  | 245.3  | 188.3 | 140.8 | 102.5 | 2.4  |
| 57°   | 548.0  | 512.1  | 443.1  | 388.5  | 309.9  | 237.3  | 187.5  | 148.4 | 114.5 | 85.0  | 2.0  |
| 58°   | 323.9  | 291.2  | 280.4  | 239.3  | 206.6  | 161.1  | 138.4  | 110.5 | 84.6  | 67.0  | 1.2  |
| 59°   | 148.8  | 151.2  | 134.4  | 126.0  | 114.5  | 102.5  | 84.2   | 73.8  | 57.8  | 48.3  | 0.8  |
| 60°   | 86.5   | 81.8   | 79.8   | 71.4   | 63.4   | 56.2   | 50.7   | 44.7  | 36.3  | 31.1  | 0.4  |
| 62.5° | 29.5   | 28.3   | 29.1   | 26.3   | 24.7   | 23.9   | 21.9   | 18.7  | 15.6  | 12.8  | 0.0  |
| 65°   | 8.0    | 8.0    | 7.6    | 7.2    | 6.8    | 6.4    | 6.0    | 5.2   | 4.8   | 4.0   | 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° | 2.8 | 2.8  | 2.4 | 2.4  | 2.0 | 2.0   | 1.6 | 1.6   | 1.2 | 1.2   | 0.0 |
| 70°   | 1.6 | 1.6  | 1.6 | 1.2  | 1.2 | 1.2   | 0.8 | 0.8   | 0.8 | 0.4   | 0.0 |
| 72.5° | 1.2 | 1.2  | 1.2 | 1.2  | 1.2 | 1.2   | 0.8 | 0.8   | 0.8 | 0.4   | 0.4 |
| 75°   | 1.2 | 1.2  | 1.2 | 0.8  | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8   | 0.4 |
| 77.5° | 0.8 | 0.8  | 0.8 | 0.8  | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 |
| 80°   | 0.8 | 0.8  | 0.8 | 0.8  | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.4   | 0.8 |
| 82.5° | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.8 |
| 85°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.4 |
| 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°    | 35.5  | 35.5 | 35.5   | 35.5 | 35.5   | 35.5 |
| 2.5°  | 36.7  | 35.1 | 33.1   | 31.9 | 31.5   | 31.1 |
| 5°    | 35.1  | 31.9 | 29.5   | 27.9 | 27.5   | 27.5 |
| 7.5°  | 31.5  | 27.9 | 25.5   | 24.7 | 24.3   | 24.3 |
| 10°   | 27.5  | 24.3 | 22.3   | 21.5 | 21.9   | 21.9 |
| 12.5° | 23.1  | 20.3 | 19.5   | 19.5 | 19.9   | 20.3 |
| 15°   | 18.7  | 17.2 | 17.2   | 17.5 | 18.3   | 18.7 |
| 17.5° | 15.6  | 14.8 | 15.2   | 16.0 | 16.8   | 17.5 |
| 20°   | 12.8  | 12.8 | 13.6   | 14.8 | 16.0   | 16.8 |
| 22.5° | 10.8  | 11.2 | 12.4   | 13.6 | 15.2   | 16.0 |
| 25°   | 9.2   | 10.0 | 11.2   | 13.2 | 14.8   | 15.2 |
| 27.5° | 8.0   | 9.2  | 10.8   | 12.8 | 14.4   | 15.2 |
| 30°   | 6.8   | 8.4  | 10.4   | 12.4 | 14.4   | 15.2 |
| 31°   | 6.4   | 8.0  | 10.0   | 12.4 | 14.4   | 15.2 |
| 32°   | 6.0   | 8.0  | 10.0   | 12.4 | 14.4   | 15.2 |
| 33°   | 5.6   | 7.6  | 10.0   | 12.0 | 14.4   | 15.2 |
| 34°   | 5.2   | 7.6  | 10.0   | 12.4 | 14.4   | 15.2 |
| 35°   | 4.8   | 7.2  | 9.6    | 12.0 | 14.0   | 15.2 |
| 36°   | 4.4   | 7.2  | 9.6    | 12.0 | 14.4   | 15.2 |
| 37°   | 4.0   | 7.2  | 9.6    | 12.0 | 14.0   | 15.2 |
| 38°   | 4.0   | 6.8  | 9.2    | 12.0 | 14.0   | 15.2 |
| 39°   | 3.6   | 6.4  | 9.2    | 12.0 | 14.0   | 15.2 |
| 40°   | 3.2   | 6.4  | 8.8    | 11.6 | 14.0   | 15.2 |
| 41°   | 2.8   | 6.0  | 8.8    | 11.6 | 14.0   | 15.2 |
| 42°   | 2.4   | 6.0  | 8.8    | 11.6 | 14.0   | 15.2 |
| 43°   | 2.0   | 5.6  | 8.4    | 11.6 | 14.0   | 15.2 |
| 44°   | 2.0   | 5.6  | 8.4    | 11.6 | 14.0   | 15.2 |
| 45°   | 1.6   | 5.2  | 8.0    | 11.6 | 14.0   | 15.2 |
| 46°   | 1.6   | 5.2  | 8.0    | 11.2 | 14.0   | 15.2 |
| 47°   | 1.2   | 5.2  | 8.0    | 11.2 | 14.0   | 15.2 |
| 48°   | 1.2   | 4.8  | 8.0    | 11.2 | 14.0   | 15.2 |
| 49°   | 0.8   | 4.8  | 8.0    | 11.2 | 14.0   | 15.2 |
| 50°   | 0.8   | 4.8  | 7.6    | 11.2 | 14.0   | 15.2 |
| 51°   | 0.8   | 4.8  | 7.6    | 11.2 | 14.0   | 15.2 |
| 52°   | 0.8   | 4.4  | 7.6    | 11.2 | 14.0   | 15.2 |
| 53°   | 0.8   | 4.4  | 7.6    | 11.2 | 14.0   | 15.2 |
| 54°   | 0.8   | 4.4  | 7.2    | 11.2 | 14.0   | 15.2 |
| 55°   | 0.8   | 4.0  | 7.2    | 10.8 | 14.0   | 14.8 |
| 56°   | 0.8   | 4.0  | 7.2    | 10.8 | 14.0   | 14.8 |
| 57°   | 0.8   | 4.0  | 6.8    | 10.8 | 14.0   | 14.8 |
| 58°   | 0.8   | 3.6  | 6.8    | 10.4 | 13.6   | 14.8 |
| 59°   | 0.8   | 3.6  | 6.4    | 10.4 | 13.6   | 14.4 |
| 60°   | 0.8   | 3.2  | 6.4    | 10.0 | 13.2   | 14.4 |
| 62.5° | 0.8   | 2.8  | 5.6    | 9.6  | 12.8   | 13.6 |
| 65°   | 0.8   | 2.4  | 5.2    | 8.8  | 12.4   | 13.2 |





TEST NUMBER: P1343482

CATALOG NUMBER: P3A13R159727DE010 E3A451H

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.8   | 2.4 | 4.8    | 8.4  | 11.6   | 12.8 |
| 70°   | 0.8   | 2.4 | 4.4    | 7.6  | 11.2   | 11.6 |
| 72.5° | 1.2   | 2.4 | 4.0    | 7.2  | 10.4   | 10.8 |
| 75°   | 1.6   | 2.4 | 3.6    | 6.4  | 9.6    | 10.0 |
| 77.5° | 1.6   | 2.4 | 3.2    | 5.6  | 8.4    | 8.8  |
| 80°   | 1.6   | 2.0 | 2.8    | 4.4  | 6.8    | 7.2  |
| 82.5° | 1.6   | 2.0 | 2.0    | 3.6  | 5.2    | 5.6  |
| 85°   | 1.2   | 1.6 | 1.6    | 2.0  | 3.6    | 4.0  |
| 87.5° | 1.2   | 1.6 | 0.8    | 1.2  | 1.6    | 1.6  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)