

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: P1343494

Luminaire Tested: P3A13R159730DE010 E3A301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1343494  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R159730DE010 E3A301MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 97CRI , E3A301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

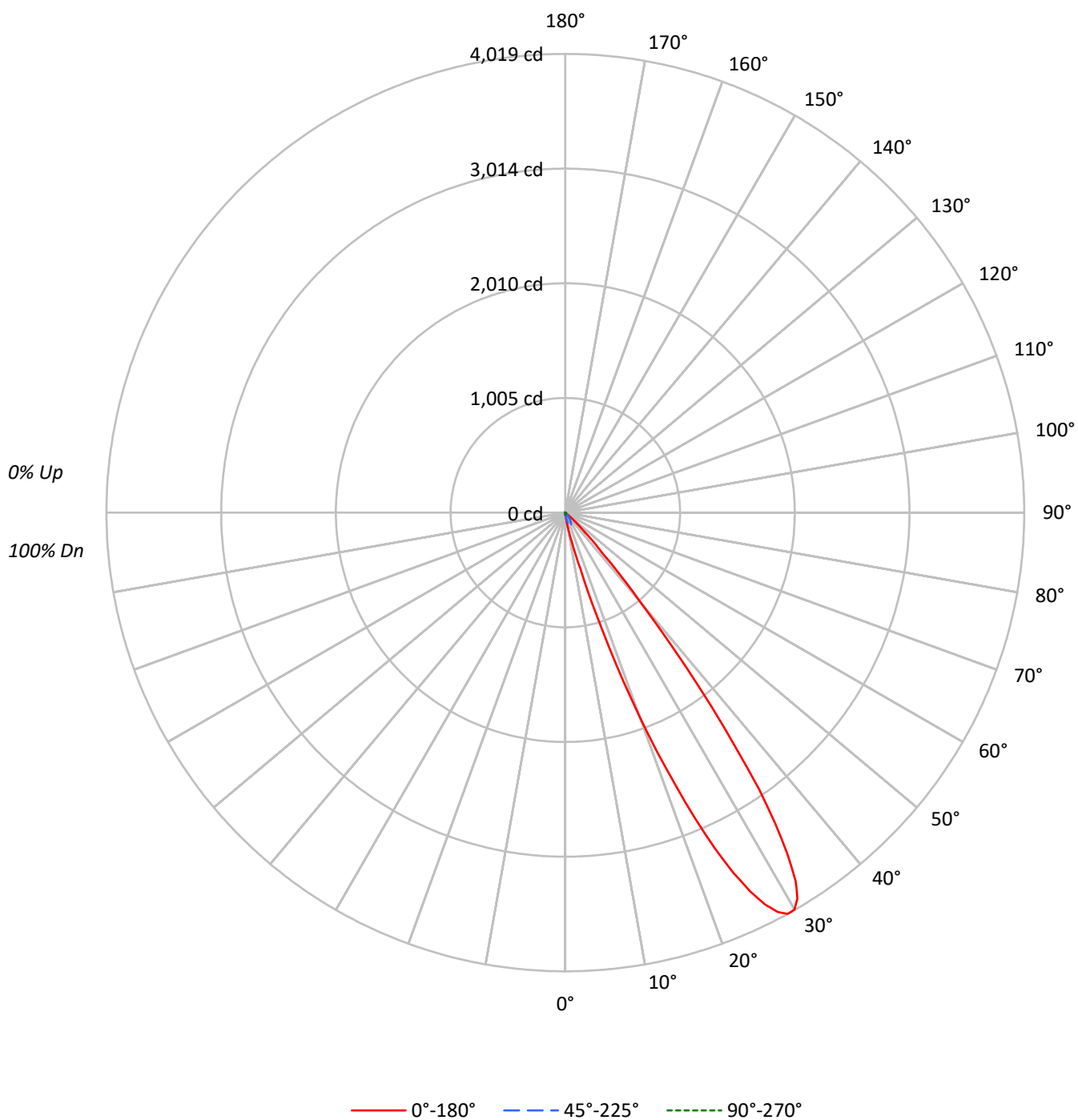
Lumens per Lamp: N/A  
Luminaire Lumens: 439.0 lumens  
Efficiency: N/A  
Efficacy: 30.1 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1343494

CATALOG NUMBER: P3A13R159730DE010 E3A301MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1343494

CATALOG NUMBER: P3A13R159730DE010 E3A301MW

**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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  |  | 99  | 98  | 96  |  | 96  |
| 2   | 106 | 100 | 96  | 92  | 104 | 99  | 94  | 91  | 95  | 92  | 89  |  | 92  | 89  | 87  |  | 89  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  |  | 85  | 81  | 78  |  | 83  |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 75  | 71  |  | 79  | 74  | 70  |  | 77  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  |  | 72  | 67  | 64  |  | 71  |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  |  | 67  | 61  | 57  |  | 65  |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  |  | 61  | 56  | 52  |  | 60  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  |  | 57  | 51  | 47  |  | 56  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  |  | 52  | 47  | 43  |  | 51  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  |  | 48  | 43  | 39  |  | 47  |

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

|     | 0°      | 45°   | 90°  | 135° | 180° |
|-----|---------|-------|------|------|------|
| 0°  | 3180    | 3180  | 3180 | 3180 | 3180 |
| 5°  | 6868    | 5085  | 3016 | 1607 | 1321 |
| 10° | 30438   | 9597  | 2382 | 668  | 468  |
| 15° | 115074  | 22202 | 1657 | 295  | 204  |
| 20° | 442555  | 31293 | 1003 | 93   | 93   |
| 25° | 841549  | 29348 | 508  | 0    | 0    |
| 30° | 1016612 | 23675 | 228  | 0    | 0    |
| 35° | 792878  | 16115 | 107  | 0    | 0    |
| 40° | 289342  | 7958  | 115  | 0    | 115  |
| 45° | 74302   | 2388  | 124  | 0    | 279  |
| 50° | 12520   | 307   | 136  | 136  | 443  |
| 55° | 1644    | 0     | 344  | 497  | 803  |
| 60° | 175     | 175   | 570  | 746  | 1140 |
| 65° | 208     | 208   | 882  | 1090 | 1349 |
| 70° | 256     | 256   | 1090 | 1090 | 1346 |
| 75° | 339     | 339   | 1440 | 1101 | 1440 |
| 80° | 0       | 505   | 1642 | 1137 | 1642 |
| 85° | 0       | 1006  | 3271 | 1006 | 1006 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 74302 cd/sqm

TEST NUMBER: P1343494

CATALOG NUMBER: P3A13R159730DE010 E3A301MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.0    | 0.5       |
| 10°-20°   | 33.6   | 7.7       |
| 20°-30°   | 186.6  | 42.5      |
| 30°-40°   | 180.2  | 41.1      |
| 40°-50°   | 31.4   | 7.1       |
| 50°-60°   | 2.3    | 0.5       |
| 60°-70°   | 1.3    | 0.3       |
| 70°-80°   | 1.1    | 0.2       |
| 80°-90°   | 0.5    | 0.1       |
| 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°    | 222.2  | 50.6      |
| 0°-40°    | 402.5  | 91.7      |
| 0°-60°    | 436.1  | 99.3      |
| 0°-90°    | 439.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 439.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 14   | 14  | 14  | 14   | 14   |      |
| 5°  | 31   | 23  | 14  | 7    | 6    | 6    |
| 15° | 507  | 98  | 7   | 1    | 1    | 226  |
| 25° | 3478 | 121 | 2   | 0    | 0    | 1555 |
| 35° | 2962 | 60  | 0   | 0    | 0    | 1703 |
| 45° | 240  | 8   | 0   | 0    | 1    | 257  |
| 55° | 4    | 0   | 1   | 1    | 2    | 8    |
| 65° | 0    | 0   | 2   | 2    | 3    | 0    |
| 75° | 0    | 0   | 2   | 1    | 2    | 0    |
| 85° | 0    | 0   | 1   | 0    | 0    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1343494

CATALOG NUMBER: P3A13R159730DE010 E3A301MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 22.5°  | 45°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 14.5   | 14.5   | 14.5   | 14.5   | 14.5   | 14.5   | 14.5   | 14.5   | 14.5   | 14.5   | 14.5  |
| 2.5°  | 21.4   | 20.5   | 20.9   | 20.9   | 20.9   | 20.9   | 20.9   | 20.1   | 20.1   | 20.5   | 18.4  |
| 5°    | 31.2   | 31.2   | 30.7   | 31.2   | 31.2   | 30.7   | 29.9   | 29.5   | 29.5   | 28.6   | 23.1  |
| 7.5°  | 62.3   | 61.5   | 61.5   | 60.6   | 56.4   | 55.1   | 54.2   | 52.1   | 48.3   | 47.4   | 29.9  |
| 10°   | 136.7  | 137.1  | 134.1  | 130.2  | 129.8  | 123.4  | 121.3  | 117.4  | 110.2  | 102.9  | 43.1  |
| 12.5° | 248.1  | 242.6  | 235.3  | 235.7  | 223.3  | 219.1  | 209.2  | 198.6  | 187.5  | 175.9  | 70.9  |
| 15°   | 506.9  | 491.1  | 500.5  | 477.4  | 451.4  | 421.9  | 392.0  | 354.4  | 322.4  | 288.2  | 97.8  |
| 17.5° | 1067.6 | 1083.0 | 1056.9 | 958.3  | 897.6  | 826.3  | 726.0  | 629.0  | 546.2  | 479.6  | 119.6 |
| 20°   | 1896.5 | 1919.1 | 1830.7 | 1744.9 | 1597.5 | 1437.0 | 1269.6 | 1080.0 | 898.5  | 741.3  | 134.1 |
| 21°   | 2242.8 | 2229.1 | 2192.8 | 2055.3 | 1885.4 | 1699.2 | 1494.2 | 1285.0 | 1065.0 | 860.9  | 135.4 |
| 22°   | 2577.6 | 2584.0 | 2499.4 | 2355.5 | 2178.7 | 1972.5 | 1722.2 | 1463.9 | 1226.9 | 958.3  | 133.2 |
| 23°   | 2911.1 | 2931.6 | 2819.7 | 2684.8 | 2462.3 | 2229.6 | 1940.0 | 1661.2 | 1368.2 | 1069.7 | 129.0 |
| 24°   | 3219.9 | 3205.8 | 3130.2 | 2960.2 | 2722.4 | 2449.9 | 2149.3 | 1811.1 | 1484.4 | 1165.0 | 125.5 |
| 25°   | 3478.2 | 3476.5 | 3357.8 | 3192.5 | 2920.5 | 2618.6 | 2287.2 | 1933.6 | 1583.9 | 1229.4 | 121.3 |
| 26°   | 3689.6 | 3655.0 | 3561.5 | 3359.9 | 3091.3 | 2772.7 | 2400.4 | 2022.9 | 1639.8 | 1261.9 | 117.0 |
| 27°   | 3852.7 | 3828.0 | 3702.4 | 3492.7 | 3212.2 | 2859.9 | 2473.0 | 2067.3 | 1665.4 | 1272.6 | 111.5 |
| 28°   | 3962.5 | 3935.6 | 3801.9 | 3585.8 | 3278.8 | 2914.5 | 2511.4 | 2086.1 | 1665.4 | 1262.3 | 106.3 |
| 29°   | 4019.3 | 3982.5 | 3849.3 | 3617.9 | 3294.2 | 2920.9 | 2502.0 | 2067.7 | 1639.4 | 1230.7 | 100.4 |
| 30°   | 4015.0 | 3969.3 | 3829.7 | 3588.8 | 3248.5 | 2868.4 | 2449.5 | 2001.5 | 1580.5 | 1183.7 | 93.5  |
| 31°   | 3945.8 | 3894.6 | 3738.7 | 3490.6 | 3154.1 | 2769.3 | 2350.4 | 1912.7 | 1499.8 | 1122.7 | 86.7  |
| 32°   | 3805.3 | 3740.4 | 3588.4 | 3341.1 | 3008.9 | 2621.2 | 2206.5 | 1775.6 | 1378.9 | 1033.4 | 79.4  |
| 33°   | 3576.4 | 3511.1 | 3348.0 | 3116.1 | 2812.5 | 2433.3 | 2015.6 | 1628.3 | 1241.4 | 927.1  | 73.5  |
| 34°   | 3289.9 | 3230.1 | 3089.6 | 2856.0 | 2564.8 | 2195.4 | 1796.1 | 1424.6 | 1098.8 | 821.6  | 67.0  |
| 35°   | 2961.9 | 2866.7 | 2739.4 | 2554.5 | 2270.6 | 1899.0 | 1559.1 | 1235.0 | 951.9  | 711.0  | 60.2  |
| 36°   | 2518.2 | 2535.3 | 2400.4 | 2174.0 | 1938.7 | 1647.5 | 1321.3 | 1029.6 | 796.0  | 606.0  | 54.2  |
| 37°   | 2124.9 | 2098.0 | 2012.2 | 1837.1 | 1632.1 | 1343.0 | 1107.3 | 872.9  | 669.6  | 512.4  | 47.8  |
| 38°   | 1714.1 | 1720.1 | 1636.0 | 1501.5 | 1298.2 | 1104.3 | 891.2  | 717.0  | 560.3  | 436.0  | 41.8  |
| 39°   | 1341.7 | 1337.1 | 1314.4 | 1189.7 | 1005.7 | 878.4  | 722.1  | 594.4  | 466.8  | 367.7  | 35.4  |
| 40°   | 1010.8 | 1018.5 | 965.5  | 890.4  | 783.2  | 678.6  | 575.2  | 474.0  | 386.0  | 310.0  | 27.8  |
| 42.5° | 491.5  | 503.5  | 468.5  | 449.2  | 401.8  | 360.8  | 304.5  | 248.5  | 211.4  | 182.8  | 12.4  |
| 45°   | 239.6  | 232.7  | 229.7  | 220.4  | 209.2  | 187.0  | 165.7  | 142.2  | 124.3  | 107.2  | 7.7   |
| 47.5° | 122.6  | 119.1  | 119.1  | 115.3  | 111.5  | 104.2  | 93.5   | 85.8   | 77.3   | 66.6   | 3.0   |
| 50°   | 36.7   | 36.3   | 35.9   | 36.3   | 35.0   | 36.3   | 37.2   | 37.6   | 34.2   | 33.7   | 0.9   |
| 52.5° | 14.5   | 14.9   | 14.5   | 15.8   | 15.8   | 15.4   | 15.8   | 15.4   | 14.9   | 13.2   | 0.0   |
| 55°   | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.7    | 5.1    | 4.7    | 5.1    | 0.0   |
| 57.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.0   |
| 60°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.0    | 0.4   |
| 62.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   |
| 65°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   |
| 67.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   |
| 70°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   |
| 72.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   |
| 75°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4    | 0.4    | 0.4   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4   |



TEST NUMBER: P1343494

CATALOG NUMBER: P3A13R159730DE010 E3A301MW

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 82.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.4 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 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 |



TEST NUMBER: P1343494

CATALOG NUMBER: P3A13R159730DE010 E3A301MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 14.5  | 14.5 | 14.5   | 14.5 | 14.5   | 14.5 |
| 2.5°  | 17.1  | 14.9 | 12.4   | 10.2 | 9.4    | 9.0  |
| 5°    | 18.4  | 13.7 | 9.4    | 7.3  | 6.4    | 6.0  |
| 7.5°  | 19.6  | 12.4 | 7.3    | 5.1  | 3.8    | 3.4  |
| 10°   | 20.5  | 10.7 | 5.6    | 3.0  | 2.1    | 2.1  |
| 12.5° | 20.5  | 8.5  | 3.8    | 1.7  | 1.3    | 1.3  |
| 15°   | 20.1  | 7.3  | 2.6    | 1.3  | 0.9    | 0.9  |
| 17.5° | 19.6  | 5.6  | 1.7    | 0.9  | 0.4    | 0.9  |
| 20°   | 18.4  | 4.3  | 0.9    | 0.4  | 0.4    | 0.4  |
| 21°   | 17.9  | 3.8  | 0.9    | 0.4  | 0.4    | 0.4  |
| 22°   | 17.1  | 3.4  | 0.4    | 0.0  | 0.4    | 0.4  |
| 23°   | 16.2  | 2.6  | 0.4    | 0.0  | 0.0    | 0.0  |
| 24°   | 14.9  | 2.1  | 0.4    | 0.0  | 0.0    | 0.0  |
| 25°   | 14.1  | 2.1  | 0.4    | 0.0  | 0.0    | 0.0  |
| 26°   | 13.2  | 1.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 27°   | 12.0  | 0.9  | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 11.1  | 0.9  | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 9.8   | 0.9  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 8.5   | 0.9  | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 6.8   | 0.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 5.6   | 0.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 3.8   | 0.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 2.6   | 0.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 2.1   | 0.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 1.3   | 0.4  | 0.0    | 0.0  | 0.0    | 0.4  |
| 37°   | 1.3   | 0.4  | 0.0    | 0.0  | 0.0    | 0.4  |
| 38°   | 0.9   | 0.4  | 0.0    | 0.0  | 0.0    | 0.4  |
| 39°   | 0.4   | 0.4  | 0.0    | 0.0  | 0.0    | 0.4  |
| 40°   | 0.4   | 0.4  | 0.0    | 0.0  | 0.0    | 0.4  |
| 42.5° | 0.0   | 0.4  | 0.0    | 0.0  | 0.4    | 0.9  |
| 45°   | 0.0   | 0.4  | 0.0    | 0.0  | 0.4    | 0.9  |
| 47.5° | 0.0   | 0.4  | 0.0    | 0.0  | 0.9    | 0.9  |
| 50°   | 0.0   | 0.4  | 0.4    | 0.4  | 0.9    | 1.3  |
| 52.5° | 0.0   | 0.9  | 0.4    | 0.9  | 1.3    | 1.7  |
| 55°   | 0.4   | 0.9  | 0.9    | 1.3  | 1.7    | 2.1  |
| 57.5° | 0.4   | 1.3  | 1.3    | 1.7  | 2.1    | 2.1  |
| 60°   | 0.9   | 1.3  | 1.7    | 1.7  | 2.6    | 2.6  |
| 62.5° | 0.9   | 1.7  | 1.7    | 1.7  | 2.6    | 2.6  |
| 65°   | 0.9   | 1.7  | 1.7    | 2.1  | 2.6    | 2.6  |
| 67.5° | 0.9   | 1.7  | 1.7    | 1.7  | 2.1    | 2.6  |
| 70°   | 0.9   | 1.7  | 1.3    | 1.7  | 2.1    | 2.1  |
| 72.5° | 0.9   | 1.7  | 1.3    | 1.3  | 1.7    | 2.1  |
| 75°   | 0.9   | 1.7  | 1.3    | 1.3  | 1.7    | 1.7  |
| 77.5° | 0.9   | 1.3  | 1.3    | 0.9  | 1.3    | 1.3  |
| 80°   | 0.9   | 1.3  | 0.9    | 0.9  | 1.3    | 1.3  |



TEST NUMBER: P1343494

CATALOG NUMBER: P3A13R159730DE010 E3A301MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.9   | 1.3 | 0.9    | 0.4  | 0.9    | 0.9  |
| 85°   | 0.9   | 1.3 | 0.9    | 0.4  | 0.4    | 0.4  |
| 87.5° | 0.9   | 1.3 | 0.4    | 0.0  | 0.0    | 0.4  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)