

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: P1336299

Luminaire Tested: P3A05R159027DE010 E3A301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1336299  
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: P3A05R159027DE010 E3A301MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3A301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

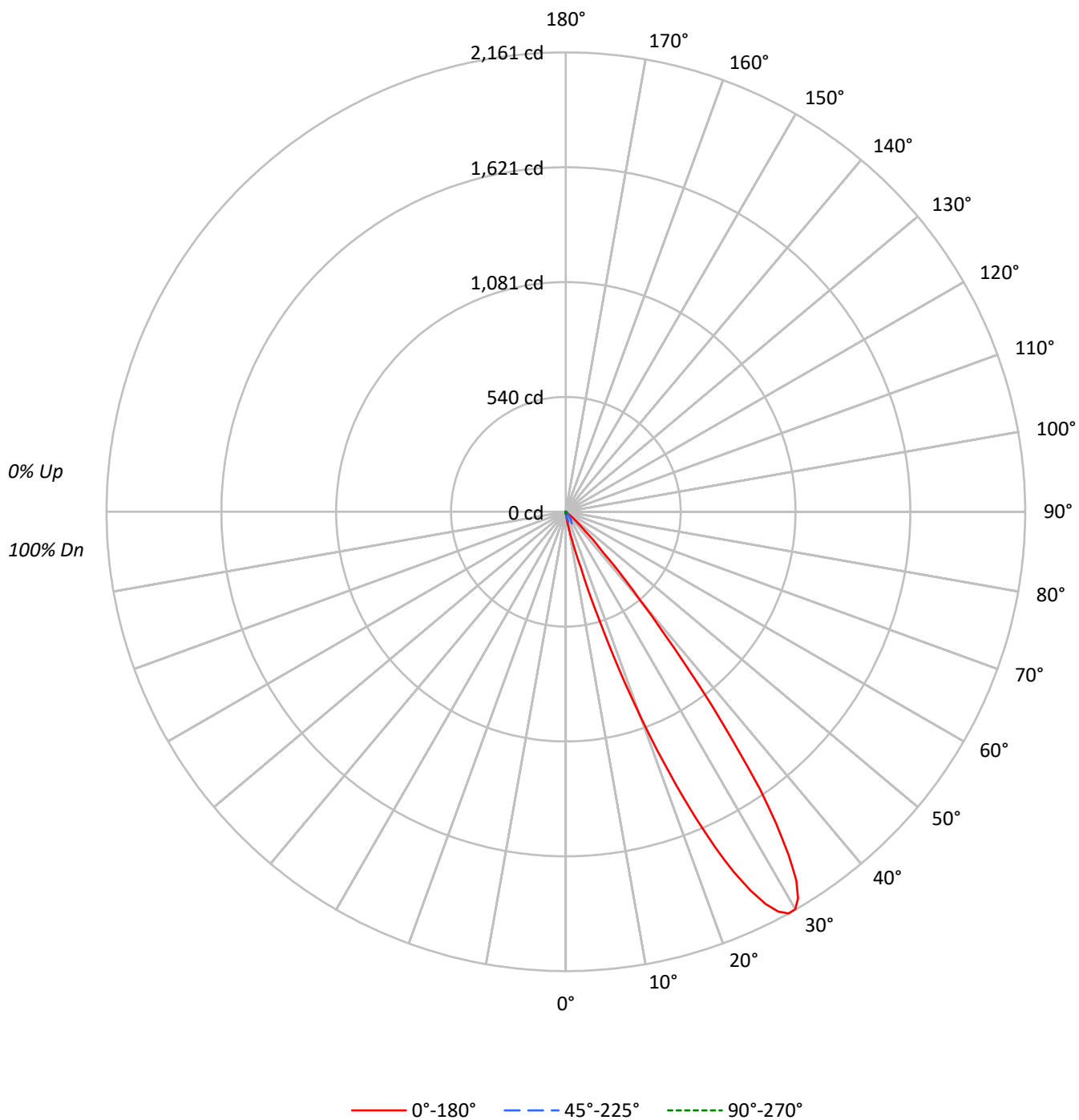
Lumens per Lamp: N/A  
Luminaire Lumens: 236.0 lumens  
Efficiency: N/A  
Efficacy: 32.8 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P1336299

CATALOG NUMBER: P3A05R159027DE010 E3A301MW

### 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 | 102 | 102 | 100 |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 93  | 93  | 92  |
| 2   | 106 | 100 | 96  | 92  | 104 | 99  | 94  | 91  | 95  | 92  | 89  | 92  | 89  | 87  | 89  | 87  | 85  | 85  | 85  | 83  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 77  | 77  | 75  |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 70  | 70  | 68  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 72  | 67  | 64  | 71  | 66  | 63  | 63  | 63  | 61  |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 57  | 57  | 55  |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 52  | 52  | 50  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 47  | 47  | 45  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 42  | 42  | 42  | 41  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 47  | 42  | 39  | 39  | 39  | 37  |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 1710   | 1710  | 1710 | 1710 | 1710 |
| 5°  | 3698   | 2729  | 1607 | 858  | 704  |
| 10° | 16366  | 5166  | 1269 | 356  | 245  |
| 15° | 61862  | 11941 | 885  | 159  | 114  |
| 20° | 237904 | 16825 | 537  | 47   | 47   |
| 25° | 452397 | 15775 | 266  | 0    | 0    |
| 30° | 546514 | 12736 | 127  | 0    | 0    |
| 35° | 426246 | 8673  | 54   | 0    | 0    |
| 40° | 155549 | 4265  | 57   | 0    | 57   |
| 45° | 39942  | 1271  | 62   | 0    | 155  |
| 50° | 6720   | 171   | 68   | 68   | 239  |
| 55° | 879    | 0     | 191  | 268  | 421  |
| 60° | 88     | 88    | 307  | 395  | 614  |
| 65° | 104    | 104   | 467  | 571  | 726  |
| 70° | 128    | 128   | 577  | 577  | 705  |
| 75° | 169    | 169   | 763  | 593  | 763  |
| 80° | 0      | 253   | 884  | 631  | 884  |
| 85° | 0      | 503   | 1761 | 503  | 503  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 39942 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.1    | 0.5       |
| 10°-20°   | 18.1   | 7.7       |
| 20°-30°   | 100.3  | 42.5      |
| 30°-40°   | 96.9   | 41.1      |
| 40°-50°   | 16.9   | 7.1       |
| 50°-60°   | 1.2    | 0.5       |
| 60°-70°   | 0.7    | 0.3       |
| 70°-80°   | 0.6    | 0.2       |
| 80°-90°   | 0.3    | 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°    | 119.5  | 50.6      |
| 0°-40°    | 216.4  | 91.7      |
| 0°-60°    | 234.4  | 99.3      |
| 0°-90°    | 236.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 236.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 8    | 8   | 8   | 8    | 8    |      |
| 5°  | 17   | 12  | 7   | 4    | 3    | 3    |
| 15° | 272  | 53  | 4   | 1    | 0    | 121  |
| 25° | 1870 | 65  | 1   | 0    | 0    | 836  |
| 35° | 1592 | 32  | 0   | 0    | 0    | 916  |
| 45° | 129  | 4   | 0   | 0    | 0    | 138  |
| 55° | 2    | 0   | 0   | 1    | 1    | 4    |
| 65° | 0    | 0   | 1   | 1    | 1    | 0    |
| 75° | 0    | 0   | 1   | 1    | 1    | 0    |
| 85° | 0    | 0   | 1   | 0    | 0    | 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°    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8   | 7.8   | 7.8  |
| 2.5°  | 11.5   | 11.0   | 11.2   | 11.2   | 11.2   | 11.2   | 11.2   | 10.8   | 10.8  | 11.0  | 9.9  |
| 5°    | 16.8   | 16.8   | 16.5   | 16.8   | 16.8   | 16.5   | 16.1   | 15.8   | 15.8  | 15.4  | 12.4 |
| 7.5°  | 33.5   | 33.1   | 33.1   | 32.6   | 30.3   | 29.6   | 29.2   | 28.0   | 25.9  | 25.5  | 16.1 |
| 10°   | 73.5   | 73.7   | 72.1   | 70.0   | 69.8   | 66.3   | 65.2   | 63.1   | 59.2  | 55.3  | 23.2 |
| 12.5° | 133.4  | 130.4  | 126.5  | 126.7  | 120.1  | 117.8  | 112.5  | 106.7  | 100.8 | 94.6  | 38.1 |
| 15°   | 272.5  | 264.0  | 269.1  | 256.7  | 242.7  | 226.8  | 210.7  | 190.5  | 173.3 | 155.0 | 52.6 |
| 17.5° | 573.9  | 582.2  | 568.2  | 515.2  | 482.6  | 444.2  | 390.3  | 338.2  | 293.6 | 257.8 | 64.3 |
| 20°   | 1019.5 | 1031.7 | 984.2  | 938.0  | 858.8  | 772.5  | 682.5  | 580.6  | 483.0 | 398.5 | 72.1 |
| 21°   | 1205.7 | 1198.3 | 1178.8 | 1104.9 | 1013.5 | 913.5  | 803.3  | 690.8  | 572.5 | 462.8 | 72.8 |
| 22°   | 1385.7 | 1389.1 | 1343.7 | 1266.3 | 1171.3 | 1060.4 | 925.9  | 787.0  | 659.6 | 515.2 | 71.6 |
| 23°   | 1565.0 | 1576.0 | 1515.8 | 1443.3 | 1323.7 | 1198.6 | 1042.9 | 893.0  | 735.5 | 575.1 | 69.3 |
| 24°   | 1730.9 | 1723.4 | 1682.7 | 1591.4 | 1463.5 | 1317.0 | 1155.4 | 973.6  | 798.0 | 626.3 | 67.5 |
| 25°   | 1869.8 | 1868.9 | 1805.1 | 1716.3 | 1570.0 | 1407.7 | 1229.6 | 1039.5 | 851.5 | 660.9 | 65.2 |
| 26°   | 1983.5 | 1964.9 | 1914.6 | 1806.2 | 1661.8 | 1490.6 | 1290.4 | 1087.5 | 881.5 | 678.4 | 62.9 |
| 27°   | 2071.2 | 2057.9 | 1990.4 | 1877.6 | 1726.8 | 1537.4 | 1329.4 | 1111.3 | 895.3 | 684.1 | 59.9 |
| 28°   | 2130.2 | 2115.7 | 2043.8 | 1927.7 | 1762.6 | 1566.8 | 1350.1 | 1121.4 | 895.3 | 678.6 | 57.2 |
| 29°   | 2160.7 | 2141.0 | 2069.3 | 1944.9 | 1770.9 | 1570.2 | 1345.0 | 1111.6 | 881.3 | 661.6 | 53.9 |
| 30°   | 2158.4 | 2133.8 | 2058.8 | 1929.3 | 1746.3 | 1542.0 | 1316.8 | 1076.0 | 849.6 | 636.4 | 50.3 |
| 31°   | 2121.2 | 2093.7 | 2009.9 | 1876.5 | 1695.6 | 1488.8 | 1263.5 | 1028.2 | 806.2 | 603.5 | 46.6 |
| 32°   | 2045.7 | 2010.8 | 1929.1 | 1796.1 | 1617.5 | 1409.1 | 1186.2 | 954.5  | 741.3 | 555.6 | 42.7 |
| 33°   | 1922.6 | 1887.5 | 1799.8 | 1675.2 | 1511.9 | 1308.1 | 1083.6 | 875.3  | 667.4 | 498.4 | 39.5 |
| 34°   | 1768.6 | 1736.5 | 1660.9 | 1535.4 | 1378.8 | 1180.2 | 965.6  | 765.8  | 590.7 | 441.7 | 36.0 |
| 35°   | 1592.3 | 1541.1 | 1472.7 | 1373.3 | 1220.6 | 1020.9 | 838.2  | 663.9  | 511.7 | 382.2 | 32.4 |
| 36°   | 1353.8 | 1362.9 | 1290.4 | 1168.7 | 1042.2 | 885.7  | 710.3  | 553.5  | 427.9 | 325.8 | 29.2 |
| 37°   | 1142.3 | 1127.9 | 1081.7 | 987.6  | 877.4  | 722.0  | 595.3  | 469.2  | 360.0 | 275.5 | 25.7 |
| 38°   | 921.5  | 924.7  | 879.5  | 807.2  | 697.9  | 593.7  | 479.1  | 385.4  | 301.2 | 234.4 | 22.5 |
| 39°   | 721.3  | 718.8  | 706.6  | 639.6  | 540.6  | 472.2  | 388.2  | 319.6  | 250.9 | 197.7 | 19.1 |
| 40°   | 543.4  | 547.5  | 519.1  | 478.7  | 421.0  | 364.8  | 309.2  | 254.8  | 207.5 | 166.7 | 14.9 |
| 42.5° | 264.2  | 270.7  | 251.8  | 241.5  | 216.0  | 194.0  | 163.7  | 133.6  | 113.6 | 98.3  | 6.7  |
| 45°   | 128.8  | 125.1  | 123.5  | 118.5  | 112.5  | 100.6  | 89.1   | 76.4   | 66.8  | 57.6  | 4.1  |
| 47.5° | 65.9   | 64.0   | 64.0   | 62.0   | 59.9   | 56.0   | 50.3   | 46.1   | 41.6  | 35.8  | 1.6  |
| 50°   | 19.7   | 19.5   | 19.3   | 19.5   | 18.8   | 19.5   | 20.0   | 20.2   | 18.4  | 18.1  | 0.5  |
| 52.5° | 7.8    | 8.0    | 7.8    | 8.5    | 8.5    | 8.3    | 8.5    | 8.3    | 8.0   | 7.1   | 0.0  |
| 55°   | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.5    | 2.8    | 2.5   | 2.8   | 0.0  |
| 57.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 0.0  |
| 60°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.0   | 0.2  |
| 62.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 65°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 67.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 70°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 72.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 75°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.2   | 0.2   | 0.2  |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.2  |



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**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   | 0.2 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 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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CATALOG NUMBER: P3A05R159027DE010 E3A301MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 7.8   | 7.8 | 7.8    | 7.8  | 7.8    | 7.8  |
| 2.5°  | 9.2   | 8.0 | 6.7    | 5.5  | 5.1    | 4.8  |
| 5°    | 9.9   | 7.3 | 5.1    | 3.9  | 3.4    | 3.2  |
| 7.5°  | 10.6  | 6.7 | 3.9    | 2.8  | 2.1    | 1.8  |
| 10°   | 11.0  | 5.7 | 3.0    | 1.6  | 1.1    | 1.1  |
| 12.5° | 11.0  | 4.6 | 2.1    | 0.9  | 0.7    | 0.7  |
| 15°   | 10.8  | 3.9 | 1.4    | 0.7  | 0.5    | 0.5  |
| 17.5° | 10.6  | 3.0 | 0.9    | 0.5  | 0.2    | 0.5  |
| 20°   | 9.9   | 2.3 | 0.5    | 0.2  | 0.2    | 0.2  |
| 21°   | 9.6   | 2.1 | 0.5    | 0.2  | 0.2    | 0.2  |
| 22°   | 9.2   | 1.8 | 0.2    | 0.0  | 0.2    | 0.2  |
| 23°   | 8.7   | 1.4 | 0.2    | 0.0  | 0.0    | 0.0  |
| 24°   | 8.0   | 1.1 | 0.2    | 0.0  | 0.0    | 0.0  |
| 25°   | 7.6   | 1.1 | 0.2    | 0.0  | 0.0    | 0.0  |
| 26°   | 7.1   | 0.7 | 0.0    | 0.0  | 0.0    | 0.0  |
| 27°   | 6.4   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 6.0   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 5.3   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 4.6   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 3.7   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 3.0   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 2.1   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 1.4   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 1.1   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 0.7   | 0.2 | 0.0    | 0.0  | 0.0    | 0.2  |
| 37°   | 0.7   | 0.2 | 0.0    | 0.0  | 0.0    | 0.2  |
| 38°   | 0.5   | 0.2 | 0.0    | 0.0  | 0.0    | 0.2  |
| 39°   | 0.2   | 0.2 | 0.0    | 0.0  | 0.0    | 0.2  |
| 40°   | 0.2   | 0.2 | 0.0    | 0.0  | 0.0    | 0.2  |
| 42.5° | 0.0   | 0.2 | 0.0    | 0.0  | 0.2    | 0.5  |
| 45°   | 0.0   | 0.2 | 0.0    | 0.0  | 0.2    | 0.5  |
| 47.5° | 0.0   | 0.2 | 0.0    | 0.0  | 0.5    | 0.5  |
| 50°   | 0.0   | 0.2 | 0.2    | 0.2  | 0.5    | 0.7  |
| 52.5° | 0.0   | 0.5 | 0.2    | 0.5  | 0.7    | 0.9  |
| 55°   | 0.2   | 0.5 | 0.5    | 0.7  | 0.9    | 1.1  |
| 57.5° | 0.2   | 0.7 | 0.7    | 0.9  | 1.1    | 1.1  |
| 60°   | 0.5   | 0.7 | 0.9    | 0.9  | 1.4    | 1.4  |
| 62.5° | 0.5   | 0.9 | 0.9    | 0.9  | 1.4    | 1.4  |
| 65°   | 0.5   | 0.9 | 0.9    | 1.1  | 1.4    | 1.4  |
| 67.5° | 0.5   | 0.9 | 0.9    | 0.9  | 1.1    | 1.4  |
| 70°   | 0.5   | 0.9 | 0.7    | 0.9  | 1.1    | 1.1  |
| 72.5° | 0.5   | 0.9 | 0.7    | 0.7  | 0.9    | 1.1  |
| 75°   | 0.5   | 0.9 | 0.7    | 0.7  | 0.9    | 0.9  |
| 77.5° | 0.5   | 0.7 | 0.7    | 0.5  | 0.7    | 0.7  |
| 80°   | 0.5   | 0.7 | 0.5    | 0.5  | 0.7    | 0.7  |



TEST NUMBER: P1336299

CATALOG NUMBER: P3A05R159027DE010 E3A301MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.5   | 0.7 | 0.5    | 0.2  | 0.5    | 0.5  |
| 85°   | 0.5   | 0.7 | 0.5    | 0.2  | 0.2    | 0.2  |
| 87.5° | 0.5   | 0.7 | 0.2    | 0.0  | 0.0    | 0.2  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)