

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: P1336400

Luminaire Tested: P3A05R159730DE010 E3A301H

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1336400  
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: P3A05R159730DE010 E3A301H  
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 97CRI , E3A301H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

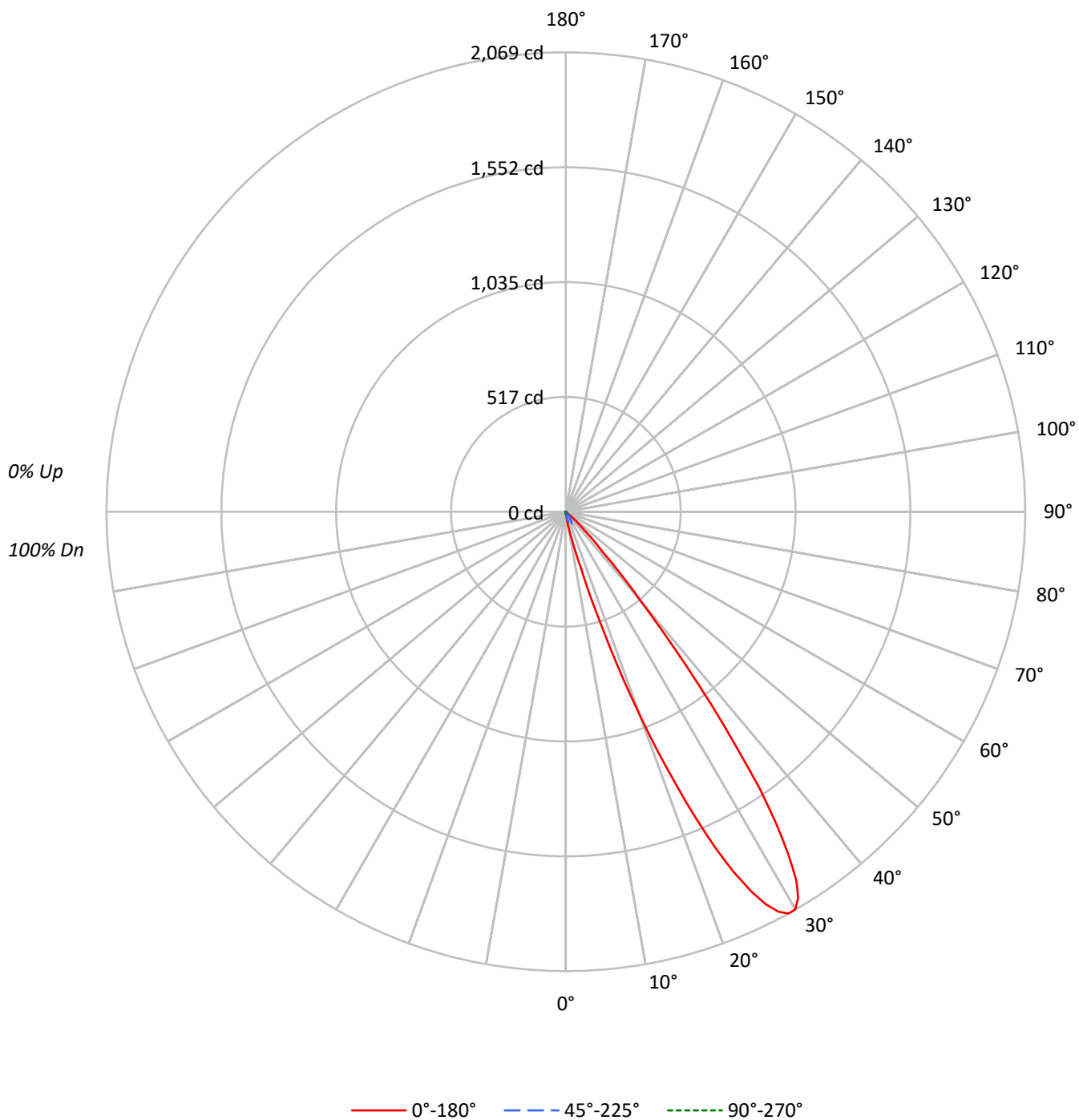
Lumens per Lamp: N/A  
Luminaire Lumens: 226.0 lumens  
Efficiency: N/A  
Efficacy: 31.4 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.48 / 1.26  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

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CATALOG NUMBER: P3A05R159730DE010 E3A301H

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

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 1645   | 1645  | 1645 | 1645 | 1645 |
| 5°  | 3522   | 2619  | 1541 | 814  | 682  |
| 10° | 15653  | 4943  | 1225 | 334  | 245  |
| 15° | 59251  | 11419 | 840  | 159  | 91   |
| 20° | 227823 | 16101 | 513  | 47   | 47   |
| 25° | 433235 | 15098 | 266  | 0    | 0    |
| 30° | 523346 | 12179 | 101  | 0    | 0    |
| 35° | 408177 | 8298  | 54   | 0    | 0    |
| 40° | 148965 | 4093  | 57   | 0    | 57   |
| 45° | 38237  | 1240  | 62   | 0    | 124  |
| 50° | 6448   | 136   | 68   | 68   | 239  |
| 55° | 841    | 0     | 153  | 268  | 421  |
| 60° | 88     | 88    | 307  | 395  | 570  |
| 65° | 104    | 104   | 467  | 571  | 675  |
| 70° | 128    | 128   | 577  | 577  | 705  |
| 75° | 169    | 169   | 763  | 593  | 763  |
| 80° | 0      | 253   | 884  | 505  | 884  |
| 85° | 0      | 503   | 1761 | 503  | 503  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 38237 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.0    | 0.5       |
| 10°-20°   | 17.3   | 7.7       |
| 20°-30°   | 96.0   | 42.5      |
| 30°-40°   | 92.8   | 41.1      |
| 40°-50°   | 16.1   | 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°    | 114.4  | 50.6      |
| 0°-40°    | 207.2  | 91.7      |
| 0°-60°    | 224.5  | 99.3      |
| 0°-90°    | 226.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 226.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 8    | 8   | 8   | 8    | 8    |      |
| 5°  | 16   | 12  | 7   | 4    | 3    | 3    |
| 15° | 261  | 50  | 4   | 1    | 0    | 116  |
| 25° | 1791 | 62  | 1   | 0    | 0    | 801  |
| 35° | 1525 | 31  | 0   | 0    | 0    | 877  |
| 45° | 123  | 4   | 0   | 0    | 0    | 132  |
| 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°    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5    | 7.5   | 7.5   | 7.5  |
| 2.5°  | 11.0   | 10.6   | 10.8   | 10.8   | 10.8   | 10.8   | 10.8   | 10.3   | 10.3  | 10.6  | 9.5  |
| 5°    | 16.0   | 16.0   | 15.8   | 16.0   | 16.0   | 15.8   | 15.4   | 15.2   | 15.2  | 14.7  | 11.9 |
| 7.5°  | 32.1   | 31.7   | 31.7   | 31.2   | 29.0   | 28.4   | 27.9   | 26.8   | 24.8  | 24.4  | 15.4 |
| 10°   | 70.3   | 70.6   | 69.0   | 67.1   | 66.8   | 63.5   | 62.4   | 60.5   | 56.7  | 53.0  | 22.2 |
| 12.5° | 127.7  | 124.9  | 121.1  | 121.4  | 115.0  | 112.8  | 107.7  | 102.2  | 96.5  | 90.6  | 36.5 |
| 15°   | 261.0  | 252.8  | 257.7  | 245.8  | 232.4  | 217.2  | 201.8  | 182.5  | 166.0 | 148.4 | 50.3 |
| 17.5° | 549.6  | 557.5  | 544.1  | 493.3  | 462.1  | 425.4  | 373.7  | 323.8  | 281.2 | 246.9 | 61.6 |
| 20°   | 976.3  | 988.0  | 942.5  | 898.3  | 822.4  | 739.8  | 653.6  | 556.0  | 462.5 | 381.6 | 69.0 |
| 21°   | 1154.6 | 1147.6 | 1128.9 | 1058.1 | 970.6  | 874.7  | 769.2  | 661.5  | 548.3 | 443.2 | 69.7 |
| 22°   | 1327.0 | 1330.3 | 1286.7 | 1212.6 | 1121.6 | 1015.4 | 886.6  | 753.6  | 631.6 | 493.3 | 68.6 |
| 23°   | 1498.7 | 1509.2 | 1451.6 | 1382.1 | 1267.6 | 1147.8 | 998.7  | 855.2  | 704.4 | 550.7 | 66.4 |
| 24°   | 1657.6 | 1650.3 | 1611.4 | 1523.9 | 1401.5 | 1261.2 | 1106.5 | 932.3  | 764.2 | 599.7 | 64.6 |
| 25°   | 1790.6 | 1789.7 | 1728.6 | 1643.5 | 1503.5 | 1348.1 | 1177.5 | 995.4  | 815.4 | 632.9 | 62.4 |
| 26°   | 1899.4 | 1881.6 | 1833.5 | 1729.7 | 1591.4 | 1427.4 | 1235.7 | 1041.4 | 844.2 | 649.6 | 60.2 |
| 27°   | 1983.4 | 1970.7 | 1906.0 | 1798.1 | 1653.6 | 1472.3 | 1273.1 | 1064.3 | 857.4 | 655.1 | 57.4 |
| 28°   | 2039.9 | 2026.1 | 1957.2 | 1846.0 | 1687.9 | 1500.4 | 1292.9 | 1073.9 | 857.4 | 649.9 | 54.7 |
| 29°   | 2069.1 | 2050.2 | 1981.6 | 1862.5 | 1695.9 | 1503.7 | 1288.0 | 1064.5 | 844.0 | 633.6 | 51.7 |
| 30°   | 2066.9 | 2043.4 | 1971.5 | 1847.5 | 1672.3 | 1476.7 | 1261.0 | 1030.4 | 813.6 | 609.4 | 48.1 |
| 31°   | 2031.3 | 2005.0 | 1924.7 | 1797.0 | 1623.7 | 1425.7 | 1210.0 | 984.7  | 772.1 | 578.0 | 44.6 |
| 32°   | 1959.0 | 1925.6 | 1847.3 | 1720.0 | 1549.0 | 1349.4 | 1135.9 | 914.1  | 709.9 | 532.0 | 40.9 |
| 33°   | 1841.2 | 1807.5 | 1723.6 | 1604.2 | 1447.9 | 1252.7 | 1037.7 | 838.3  | 639.1 | 477.3 | 37.8 |
| 34°   | 1693.7 | 1662.9 | 1590.6 | 1470.3 | 1320.4 | 1130.2 | 924.7  | 733.4  | 565.7 | 423.0 | 34.5 |
| 35°   | 1524.8 | 1475.8 | 1410.3 | 1315.1 | 1168.9 | 977.6  | 802.6  | 635.8  | 490.0 | 366.0 | 31.0 |
| 36°   | 1296.4 | 1305.2 | 1235.7 | 1119.2 | 998.1  | 848.1  | 680.2  | 530.0  | 409.8 | 312.0 | 27.9 |
| 37°   | 1093.9 | 1080.1 | 1035.9 | 945.8  | 840.2  | 691.4  | 570.0  | 449.4  | 344.7 | 263.8 | 24.6 |
| 38°   | 882.4  | 885.5  | 842.2  | 773.0  | 668.3  | 568.5  | 458.8  | 369.1  | 288.4 | 224.5 | 21.5 |
| 39°   | 690.7  | 688.3  | 676.7  | 612.5  | 517.7  | 452.2  | 371.8  | 306.0  | 240.3 | 189.3 | 18.2 |
| 40°   | 520.4  | 524.3  | 497.1  | 458.4  | 403.2  | 349.3  | 296.1  | 244.0  | 198.7 | 159.6 | 14.3 |
| 42.5° | 253.0  | 259.2  | 241.2  | 231.3  | 206.9  | 185.8  | 156.7  | 127.9  | 108.8 | 94.1  | 6.4  |
| 45°   | 123.3  | 119.8  | 118.3  | 113.4  | 107.7  | 96.3   | 85.3   | 73.2   | 64.0  | 55.2  | 4.0  |
| 47.5° | 63.1   | 61.3   | 61.3   | 59.4   | 57.4   | 53.6   | 48.1   | 44.2   | 39.8  | 34.3  | 1.5  |
| 50°   | 18.9   | 18.7   | 18.5   | 18.7   | 18.0   | 18.7   | 19.1   | 19.3   | 17.6  | 17.4  | 0.4  |
| 52.5° | 7.5    | 7.7    | 7.5    | 8.1    | 8.1    | 7.9    | 8.1    | 7.9    | 7.7   | 6.8   | 0.0  |
| 55°   | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.4    | 2.6    | 2.4   | 2.6   | 0.0  |
| 57.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 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: P3A05R159730DE010 E3A301H

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 7.5   | 7.5 | 7.5    | 7.5  | 7.5    | 7.5  |
| 2.5°  | 8.8   | 7.7 | 6.4    | 5.3  | 4.8    | 4.6  |
| 5°    | 9.5   | 7.0 | 4.8    | 3.7  | 3.3    | 3.1  |
| 7.5°  | 10.1  | 6.4 | 3.7    | 2.6  | 2.0    | 1.8  |
| 10°   | 10.6  | 5.5 | 2.9    | 1.5  | 1.1    | 1.1  |
| 12.5° | 10.6  | 4.4 | 2.0    | 0.9  | 0.7    | 0.7  |
| 15°   | 10.3  | 3.7 | 1.3    | 0.7  | 0.4    | 0.4  |
| 17.5° | 10.1  | 2.9 | 0.9    | 0.4  | 0.2    | 0.4  |
| 20°   | 9.5   | 2.2 | 0.4    | 0.2  | 0.2    | 0.2  |
| 21°   | 9.2   | 2.0 | 0.4    | 0.2  | 0.2    | 0.2  |
| 22°   | 8.8   | 1.8 | 0.2    | 0.0  | 0.2    | 0.2  |
| 23°   | 8.4   | 1.3 | 0.2    | 0.0  | 0.0    | 0.0  |
| 24°   | 7.7   | 1.1 | 0.2    | 0.0  | 0.0    | 0.0  |
| 25°   | 7.3   | 1.1 | 0.2    | 0.0  | 0.0    | 0.0  |
| 26°   | 6.8   | 0.7 | 0.0    | 0.0  | 0.0    | 0.0  |
| 27°   | 6.2   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 5.7   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 5.1   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 4.4   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 3.5   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 2.9   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 2.0   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 1.3   | 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°   | 0.4   | 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    | 0.4  |
| 45°   | 0.0   | 0.2 | 0.0    | 0.0  | 0.2    | 0.4  |
| 47.5° | 0.0   | 0.2 | 0.0    | 0.0  | 0.4    | 0.4  |
| 50°   | 0.0   | 0.2 | 0.2    | 0.2  | 0.4    | 0.7  |
| 52.5° | 0.0   | 0.4 | 0.2    | 0.4  | 0.7    | 0.9  |
| 55°   | 0.2   | 0.4 | 0.4    | 0.7  | 0.9    | 1.1  |
| 57.5° | 0.2   | 0.7 | 0.7    | 0.9  | 1.1    | 1.1  |
| 60°   | 0.4   | 0.7 | 0.9    | 0.9  | 1.3    | 1.3  |
| 62.5° | 0.4   | 0.9 | 0.9    | 0.9  | 1.3    | 1.3  |
| 65°   | 0.4   | 0.9 | 0.9    | 1.1  | 1.3    | 1.3  |
| 67.5° | 0.4   | 0.9 | 0.9    | 0.9  | 1.1    | 1.3  |
| 70°   | 0.4   | 0.9 | 0.7    | 0.9  | 1.1    | 1.1  |
| 72.5° | 0.4   | 0.9 | 0.7    | 0.7  | 0.9    | 1.1  |
| 75°   | 0.4   | 0.9 | 0.7    | 0.7  | 0.9    | 0.9  |
| 77.5° | 0.4   | 0.7 | 0.7    | 0.4  | 0.7    | 0.7  |
| 80°   | 0.4   | 0.7 | 0.4    | 0.4  | 0.7    | 0.7  |



TEST NUMBER: P1336400

CATALOG NUMBER: P3A05R159730DE010 E3A301H

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.4   | 0.7 | 0.4    | 0.2  | 0.4    | 0.4  |
| 85°   | 0.4   | 0.7 | 0.4    | 0.2  | 0.2    | 0.2  |
| 87.5° | 0.4   | 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)