

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: P1336901

Luminaire Tested: P3A05R209730DE010 E3A301LI

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1336901  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A05R209730DE010 E3A301LI  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , E3A301LI TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

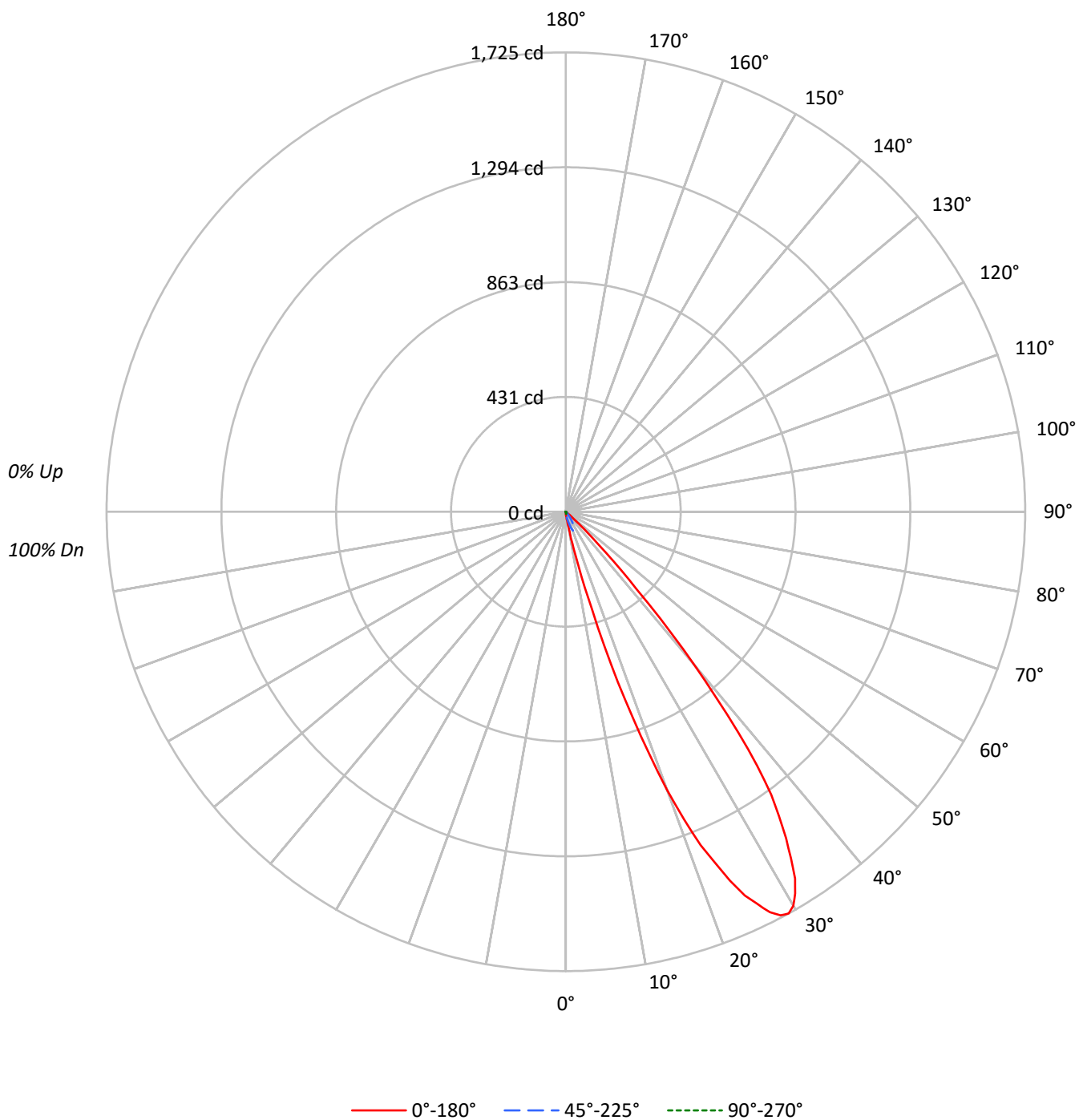
Lumens per Lamp: N/A  
Luminaire Lumens: 242.0 lumens  
Efficiency: N/A  
Efficacy: 33.6 lumens/watt  
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P3A05R209730DE010 E3A301LI

### 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  | 76  | 71  | 79  | 74  | 71  | 77  | 73  | 70  | 68  |    |    |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 72  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 62  | 58  | 65  | 61  | 57  | 55  |    |    |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 62  | 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  | 43  | 41  |    |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 42  | 39  | 37  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 1820   | 1820  | 1820 | 1820 | 1820 |
| 5°  | 4204   | 3148  | 1739 | 1057 | 924  |
| 10° | 13248  | 5478  | 1425 | 579  | 445  |
| 15° | 85835  | 10125 | 1044 | 204  | 45   |
| 20° | 259046 | 17315 | 723  | 0    | 0    |
| 25° | 384700 | 17469 | 436  | 0    | 0    |
| 30° | 432598 | 13293 | 177  | 0    | 0    |
| 35° | 373270 | 7924  | 107  | 0    | 0    |
| 40° | 214946 | 2691  | 0    | 0    | 0    |
| 45° | 52440  | 1085  | 62   | 0    | 62   |
| 50° | 6277   | 307   | 68   | 68   | 239  |
| 55° | 841    | 0     | 153  | 153  | 344  |
| 60° | 88     | 0     | 307  | 307  | 482  |
| 65° | 104    | 104   | 467  | 467  | 675  |
| 70° | 128    | 128   | 577  | 577  | 705  |
| 75° | 0      | 169   | 763  | 593  | 763  |
| 80° | 0      | 253   | 884  | 505  | 884  |
| 85° | 0      | 503   | 1761 | 503  | 503  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 52781 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.1    | 0.5       |
| 10°-20°   | 22.4   | 9.3       |
| 20°-30°   | 97.8   | 40.4      |
| 30°-40°   | 98.4   | 40.7      |
| 40°-50°   | 19.7   | 8.2       |
| 50°-60°   | 1.0    | 0.4       |
| 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°    | 121.3  | 50.1      |
| 0°-40°    | 219.7  | 90.8      |
| 0°-60°    | 240.5  | 99.4      |
| 0°-90°    | 242.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 242.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 8    | 8   | 8   | 8    | 8    |      |
| 5°  | 19   | 14  | 8   | 5    | 4    | 3    |
| 15° | 378  | 45  | 5   | 1    | 0    | 148  |
| 25° | 1590 | 72  | 2   | 0    | 0    | 717  |
| 35° | 1394 | 30  | 0   | 0    | 0    | 830  |
| 45° | 169  | 4   | 0   | 0    | 0    | 184  |
| 55° | 2    | 0   | 0   | 0    | 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°    | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    | 8.3   | 8.3   | 8.3  |
| 2.5°  | 12.5   | 12.5   | 12.3   | 12.3   | 12.1   | 12.3   | 11.9   | 12.1   | 12.1  | 11.9  | 10.8 |
| 5°    | 19.1   | 19.5   | 19.3   | 19.3   | 19.1   | 19.3   | 18.9   | 18.4   | 18.0  | 18.0  | 14.3 |
| 7.5°  | 31.4   | 31.2   | 30.7   | 31.0   | 30.3   | 29.9   | 29.4   | 29.2   | 27.9  | 27.2  | 18.7 |
| 10°   | 59.5   | 60.8   | 59.7   | 59.5   | 55.5   | 55.3   | 52.7   | 49.0   | 45.7  | 43.9  | 24.6 |
| 12.5° | 163.8  | 170.8  | 159.8  | 154.6  | 151.5  | 139.6  | 134.6  | 121.6  | 109.1 | 99.7  | 31.2 |
| 15°   | 378.1  | 395.4  | 373.2  | 374.8  | 356.3  | 322.5  | 292.9  | 267.4  | 237.3 | 207.0 | 44.6 |
| 17.5° | 740.8  | 726.7  | 714.6  | 694.2  | 656.7  | 607.1  | 543.2  | 478.4  | 422.4 | 363.8 | 62.1 |
| 20°   | 1110.1 | 1097.5 | 1070.1 | 1025.5 | 977.7  | 904.1  | 828.1  | 730.9  | 636.7 | 548.4 | 74.2 |
| 21°   | 1237.2 | 1233.0 | 1188.0 | 1160.5 | 1086.8 | 1016.5 | 928.9  | 824.9  | 718.8 | 614.3 | 76.2 |
| 22°   | 1350.7 | 1325.7 | 1301.5 | 1260.9 | 1187.6 | 1111.1 | 1013.7 | 904.1  | 789.1 | 672.9 | 76.4 |
| 23°   | 1429.3 | 1417.9 | 1395.0 | 1349.1 | 1276.3 | 1186.5 | 1083.7 | 969.1  | 847.9 | 714.4 | 75.7 |
| 24°   | 1516.2 | 1501.7 | 1468.4 | 1414.8 | 1341.2 | 1252.5 | 1135.3 | 1021.6 | 889.8 | 749.3 | 74.0 |
| 25°   | 1590.0 | 1567.4 | 1527.9 | 1470.1 | 1389.8 | 1298.2 | 1180.3 | 1055.4 | 919.0 | 772.8 | 72.2 |
| 26°   | 1637.9 | 1625.6 | 1574.8 | 1512.1 | 1426.0 | 1331.6 | 1211.3 | 1081.3 | 937.9 | 783.6 | 69.4 |
| 27°   | 1687.7 | 1665.1 | 1615.2 | 1543.0 | 1449.7 | 1353.3 | 1228.8 | 1093.8 | 944.5 | 784.0 | 65.9 |
| 28°   | 1716.2 | 1691.6 | 1635.2 | 1559.3 | 1465.1 | 1365.4 | 1238.9 | 1097.8 | 943.2 | 777.2 | 61.7 |
| 29°   | 1725.2 | 1694.3 | 1639.2 | 1561.9 | 1468.8 | 1366.3 | 1237.4 | 1092.0 | 931.6 | 760.5 | 56.9 |
| 30°   | 1708.5 | 1676.9 | 1624.7 | 1549.4 | 1456.9 | 1355.3 | 1223.1 | 1073.2 | 910.9 | 736.6 | 52.5 |
| 31°   | 1672.1 | 1645.3 | 1594.8 | 1519.3 | 1430.6 | 1329.6 | 1190.8 | 1042.2 | 875.8 | 704.5 | 47.4 |
| 32°   | 1624.0 | 1597.7 | 1548.1 | 1479.8 | 1389.5 | 1287.7 | 1146.7 | 993.9  | 834.5 | 656.7 | 42.4 |
| 33°   | 1551.8 | 1536.6 | 1492.1 | 1426.9 | 1336.6 | 1227.7 | 1087.4 | 936.2  | 775.7 | 603.5 | 38.0 |
| 34°   | 1478.7 | 1459.6 | 1428.4 | 1357.0 | 1260.0 | 1151.3 | 1010.2 | 856.5  | 703.9 | 544.0 | 33.8 |
| 35°   | 1394.4 | 1383.0 | 1334.0 | 1276.9 | 1179.4 | 1068.3 | 928.0  | 779.0  | 620.2 | 477.7 | 29.6 |
| 36°   | 1312.7 | 1295.1 | 1239.4 | 1179.0 | 1084.4 | 964.3  | 825.7  | 685.7  | 548.0 | 415.6 | 25.2 |
| 37°   | 1194.1 | 1167.4 | 1127.6 | 1063.9 | 953.3  | 851.0  | 724.5  | 594.5  | 459.1 | 348.4 | 20.4 |
| 38°   | 1054.7 | 1042.2 | 987.1  | 923.0  | 831.4  | 734.4  | 609.3  | 499.0  | 378.7 | 290.9 | 15.6 |
| 39°   | 890.3  | 890.1  | 837.4  | 791.0  | 701.5  | 614.1  | 501.2  | 405.1  | 312.6 | 234.3 | 12.1 |
| 40°   | 750.9  | 725.0  | 692.5  | 634.3  | 565.6  | 491.4  | 392.6  | 317.0  | 242.6 | 188.8 | 9.4  |
| 42.5° | 393.7  | 391.5  | 372.4  | 328.7  | 290.2  | 246.6  | 196.1  | 163.3  | 127.8 | 104.1 | 5.9  |
| 45°   | 169.1  | 170.2  | 157.0  | 150.4  | 135.5  | 117.2  | 99.0   | 82.6   | 70.7  | 57.3  | 3.5  |
| 47.5° | 42.8   | 41.1   | 40.6   | 42.2   | 42.2   | 40.8   | 36.7   | 34.5   | 31.8  | 29.2  | 2.0  |
| 50°   | 18.4   | 18.0   | 17.6   | 17.6   | 16.5   | 15.8   | 14.7   | 13.4   | 12.3  | 11.0  | 0.9  |
| 52.5° | 6.8    | 7.0    | 7.2    | 7.0    | 7.0    | 6.8    | 6.8    | 6.6    | 5.9   | 5.3   | 0.4  |
| 55°   | 2.2    | 2.2    | 2.2    | 2.4    | 2.4    | 2.6    | 2.6    | 2.6    | 2.6   | 2.4   | 0.0  |
| 57.5° | 0.4    | 0.4    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.9   | 0.9   | 0.0  |
| 60°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.0    | 0.0   | 0.0   | 0.0  |
| 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    | 0.0    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2  |
| 75°   | 0.0    | 0.0    | 0.0    | 0.2    | 0.0    | 0.2    | 0.2    | 0.0    | 0.2   | 0.2   | 0.2  |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 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: P3A05R209730DE010 E3A301LI

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 8.3   | 8.3 | 8.3    | 8.3  | 8.3    | 8.3  |
| 2.5°  | 9.7   | 8.6 | 7.2    | 6.1  | 5.9    | 5.7  |
| 5°    | 10.8  | 7.9 | 5.9    | 4.8  | 4.4    | 4.2  |
| 7.5°  | 11.6  | 7.2 | 4.8    | 3.5  | 3.1    | 2.9  |
| 10°   | 12.1  | 6.4 | 4.0    | 2.6  | 2.0    | 2.0  |
| 12.5° | 12.3  | 5.5 | 2.9    | 1.8  | 1.1    | 1.1  |
| 15°   | 12.1  | 4.6 | 2.2    | 0.9  | 0.2    | 0.2  |
| 17.5° | 11.0  | 3.7 | 1.3    | 0.2  | 0.0    | 0.0  |
| 20°   | 9.4   | 3.1 | 0.9    | 0.0  | 0.0    | 0.0  |
| 21°   | 9.0   | 2.6 | 0.7    | 0.0  | 0.0    | 0.0  |
| 22°   | 8.3   | 2.4 | 0.4    | 0.0  | 0.0    | 0.0  |
| 23°   | 7.7   | 2.2 | 0.4    | 0.0  | 0.0    | 0.0  |
| 24°   | 7.0   | 2.0 | 0.2    | 0.0  | 0.0    | 0.0  |
| 25°   | 6.6   | 1.8 | 0.2    | 0.0  | 0.0    | 0.0  |
| 26°   | 6.1   | 1.5 | 0.2    | 0.0  | 0.0    | 0.0  |
| 27°   | 5.5   | 1.3 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 5.0   | 1.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 4.4   | 0.9 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 3.7   | 0.7 | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 3.1   | 0.7 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 2.6   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 2.2   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 2.0   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 1.8   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 1.3   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 37°   | 1.1   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 38°   | 0.9   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 39°   | 0.7   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 0.7   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 42.5° | 0.2   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 45°   | 0.0   | 0.2 | 0.0    | 0.0  | 0.2    | 0.2  |
| 47.5° | 0.0   | 0.2 | 0.0    | 0.0  | 0.2    | 0.4  |
| 50°   | 0.0   | 0.2 | 0.2    | 0.2  | 0.4    | 0.7  |
| 52.5° | 0.0   | 0.4 | 0.2    | 0.2  | 0.7    | 0.7  |
| 55°   | 0.2   | 0.4 | 0.2    | 0.4  | 0.9    | 0.9  |
| 57.5° | 0.2   | 0.4 | 0.4    | 0.7  | 0.9    | 1.1  |
| 60°   | 0.4   | 0.7 | 0.7    | 0.7  | 1.1    | 1.1  |
| 62.5° | 0.4   | 0.7 | 0.9    | 0.9  | 1.1    | 1.3  |
| 65°   | 0.4   | 0.9 | 0.9    | 0.9  | 1.1    | 1.3  |
| 67.5° | 0.7   | 0.9 | 0.9    | 0.9  | 1.1    | 1.3  |
| 70°   | 0.7   | 0.9 | 0.9    | 0.9  | 1.1    | 1.1  |
| 72.5° | 0.7   | 0.9 | 0.7    | 0.9  | 0.9    | 1.1  |
| 75°   | 0.7   | 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  |



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CATALOG NUMBER: P3A05R209730DE010 E3A301LI

**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 | 0.4    | 0.2  | 0.0    | 0.2  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)