

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: P1316107

Luminaire Tested: P3SQAS09R359827DE010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316107  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-51)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS09R359827DE010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 98CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

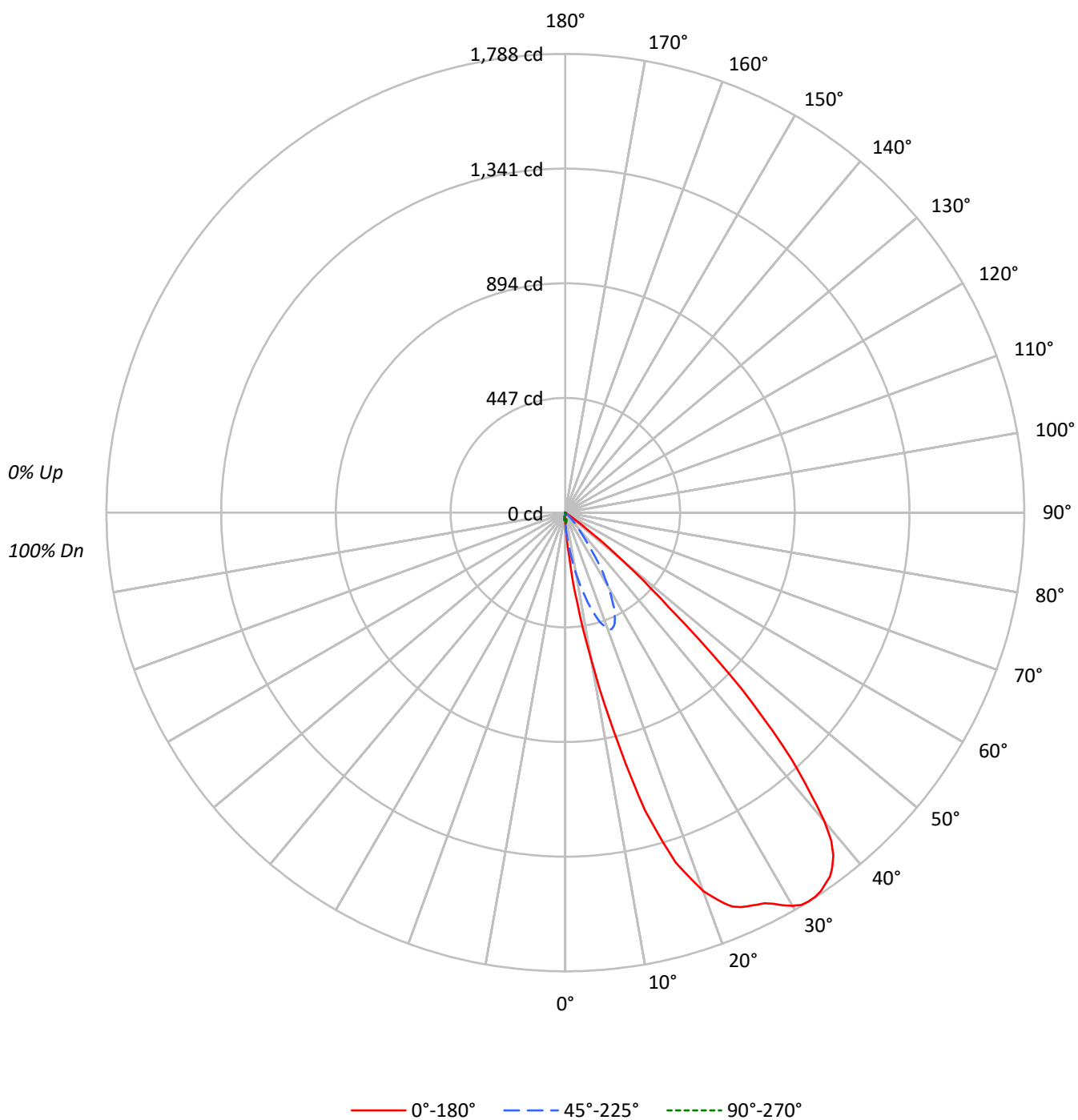
Lumens per Lamp: N/A  
Luminaire Lumens: 534.0 lumens  
Efficiency: N/A  
Efficacy: 48.5 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.46 / 1.29  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
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: P3SQAS09R359827DE010 E3SQCA301MB

### 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  | 91  |    |    |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 85  | 83  |    |    |
| 3   | 99  | 91  | 86  | 81  | 97  | 90  | 85  | 80  | 87  | 83  | 79  | 85  | 81  | 78  | 82  | 79  | 76  | 75  |    |    |
| 4   | 93  | 84  | 77  | 72  | 91  | 82  | 76  | 72  | 80  | 75  | 71  | 78  | 73  | 70  | 76  | 72  | 69  | 67  |    |    |
| 5   | 86  | 76  | 70  | 64  | 85  | 75  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 63  | 70  | 66  | 62  | 61  |    |    |
| 6   | 81  | 70  | 63  | 58  | 79  | 69  | 62  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 65  | 60  | 56  | 55  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 60  | 55  | 51  | 49  |    |    |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 46  | 55  | 50  | 46  | 45  |    |    |
| 9   | 66  | 55  | 47  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 6923   | 6923  | 6923 | 6923 | 6923 |
| 5°  | 30116  | 18671 | 6431 | 2282 | 1591 |
| 10° | 101378 | 42146 | 4809 | 542  | 175  |
| 15° | 214546 | 69126 | 2995 | 0    | 0    |
| 20° | 287669 | 88320 | 1393 | 0    | 0    |
| 25° | 321487 | 86747 | 285  | 0    | 0    |
| 30° | 351952 | 66461 | 0    | 0    | 0    |
| 35° | 371440 | 36204 | 0    | 0    | 0    |
| 40° | 353103 | 16255 | 0    | 0    | 0    |
| 45° | 236983 | 7185  | 0    | 0    | 0    |
| 50° | 79174  | 670   | 0    | 0    | 0    |
| 55° | 4294   | 0     | 0    | 0    | 0    |
| 60° | 0      | 0     | 172  | 0    | 0    |
| 65° | 0      | 0     | 408  | 0    | 0    |
| 70° | 0      | 252   | 504  | 0    | 0    |
| 75° | 0      | 333   | 665  | 0    | 0    |
| 80° | 0      | 496   | 992  | 0    | 0    |
| 85° | 0      | 988   | 1976 | 0    | 0    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 236983 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 8.6    | 1.6       |
| 10°-20°   | 74.1   | 13.9      |
| 20°-30°   | 162.6  | 30.4      |
| 30°-40°   | 188.0  | 35.2      |
| 40°-50°   | 92.8   | 17.4      |
| 50°-60°   | 6.9    | 1.3       |
| 60°-70°   | 0.2    | 0.0       |
| 70°-80°   | 0.4    | 0.1       |
| 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       |
| <hr/>     |        |           |
| 0°-30°    | 245.3  | 45.9      |
| 0°-40°    | 433.3  | 81.2      |
| 0°-60°    | 533.0  | 99.8      |
| 0°-90°    | 534.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 534.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 40   | 40  | 40  | 40   | 40   |      |
| 5°  | 174  | 108 | 37  | 13   | 9    | 30   |
| 15° | 1203 | 388 | 17  | 0    | 0    | 340  |
| 25° | 1692 | 456 | 2   | 0    | 0    | 782  |
| 35° | 1767 | 172 | 0   | 0    | 0    | 1091 |
| 45° | 973  | 30  | 0   | 0    | 0    | 714  |
| 55° | 14   | 0   | 0   | 0    | 0    | 58   |
| 65° | 0    | 0   | 1   | 0    | 0    | 0    |
| 75° | 0    | 0   | 1   | 0    | 0    | 0    |
| 85° | 0    | 0   | 1   | 0    | 0    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°   | 45°   | 67.5° | 90°  |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|
| 0°    | 40.2   | 40.2   | 40.2   | 40.2   | 40.2   | 40.2   | 40.2   | 40.2  | 40.2  | 40.2  | 40.2 |
| 2.5°  | 80.0   | 82.0   | 81.0   | 81.0   | 80.5   | 77.9   | 73.4   | 71.8  | 66.2  | 52.5  | 40.8 |
| 5°    | 174.2  | 174.7  | 173.2  | 165.6  | 158.9  | 152.8  | 139.6  | 133.5 | 108.0 | 64.2  | 37.2 |
| 7.5°  | 353.5  | 345.9  | 336.2  | 325.5  | 302.1  | 280.7  | 252.7  | 223.1 | 167.1 | 74.4  | 33.1 |
| 10°   | 579.7  | 569.0  | 560.9  | 535.4  | 493.1  | 449.3  | 395.8  | 347.4 | 241.0 | 81.5  | 27.5 |
| 12.5° | 871.6  | 865.5  | 836.5  | 785.5  | 722.9  | 659.7  | 566.5  | 489.6 | 315.3 | 83.0  | 22.4 |
| 15°   | 1203.3 | 1193.1 | 1148.8 | 1076.4 | 991.4  | 892.0  | 767.2  | 637.8 | 387.7 | 78.5  | 16.8 |
| 17.5° | 1430.0 | 1424.4 | 1386.2 | 1310.3 | 1212.5 | 1086.1 | 938.4  | 776.9 | 447.3 | 68.8  | 11.7 |
| 20°   | 1569.6 | 1561.4 | 1525.8 | 1461.6 | 1359.2 | 1227.2 | 1052.0 | 865.5 | 481.9 | 56.5  | 7.6  |
| 21°   | 1605.7 | 1597.6 | 1569.1 | 1502.3 | 1404.5 | 1262.9 | 1083.1 | 886.9 | 488.5 | 50.9  | 6.1  |
| 22°   | 1639.9 | 1631.7 | 1601.7 | 1542.6 | 1445.8 | 1298.0 | 1107.5 | 903.2 | 487.5 | 46.4  | 4.6  |
| 23°   | 1668.4 | 1659.7 | 1630.2 | 1575.7 | 1478.4 | 1329.1 | 1125.9 | 911.4 | 480.9 | 41.8  | 3.6  |
| 24°   | 1683.2 | 1678.1 | 1651.6 | 1600.1 | 1504.9 | 1351.0 | 1138.6 | 914.4 | 472.8 | 37.2  | 2.5  |
| 25°   | 1691.8 | 1685.7 | 1659.7 | 1612.4 | 1522.2 | 1368.3 | 1146.7 | 911.9 | 456.5 | 33.1  | 1.5  |
| 26°   | 1701.0 | 1691.8 | 1662.3 | 1616.4 | 1531.4 | 1376.5 | 1147.2 | 905.3 | 439.1 | 29.5  | 0.5  |
| 27°   | 1709.2 | 1700.5 | 1669.9 | 1619.5 | 1532.9 | 1373.9 | 1143.2 | 892.5 | 418.2 | 26.0  | 0.5  |
| 28°   | 1727.0 | 1717.3 | 1682.2 | 1626.1 | 1534.4 | 1367.3 | 1130.4 | 875.2 | 390.7 | 22.9  | 0.0  |
| 29°   | 1750.4 | 1740.2 | 1700.0 | 1641.9 | 1538.0 | 1360.2 | 1113.1 | 852.3 | 366.8 | 20.4  | 0.0  |
| 30°   | 1769.8 | 1760.6 | 1723.4 | 1661.8 | 1547.2 | 1353.6 | 1092.7 | 821.2 | 334.2 | 17.3  | 0.0  |
| 31°   | 1784.0 | 1774.9 | 1740.7 | 1678.6 | 1555.3 | 1347.5 | 1067.3 | 789.1 | 304.6 | 15.3  | 0.0  |
| 32°   | 1787.6 | 1780.0 | 1747.9 | 1685.7 | 1555.3 | 1338.3 | 1043.8 | 752.9 | 275.6 | 12.7  | 0.0  |
| 33°   | 1786.1 | 1778.4 | 1745.8 | 1680.6 | 1541.6 | 1316.4 | 1015.3 | 709.6 | 242.5 | 11.2  | 0.0  |
| 34°   | 1780.5 | 1771.3 | 1736.7 | 1664.3 | 1514.6 | 1279.2 | 974.0  | 666.3 | 207.8 | 9.2   | 0.0  |
| 35°   | 1766.7 | 1758.6 | 1720.9 | 1633.8 | 1472.8 | 1222.6 | 919.0  | 616.4 | 172.2 | 7.6   | 0.0  |
| 36°   | 1753.5 | 1741.3 | 1694.9 | 1596.1 | 1417.8 | 1164.6 | 853.3  | 558.9 | 141.6 | 6.1   | 0.0  |
| 37°   | 1729.0 | 1711.7 | 1664.8 | 1541.6 | 1339.8 | 1082.6 | 778.4  | 495.7 | 118.7 | 4.6   | 0.0  |
| 38°   | 1696.4 | 1673.0 | 1613.4 | 1478.4 | 1261.4 | 1005.6 | 708.1  | 438.6 | 99.8  | 3.1   | 0.0  |
| 39°   | 1646.0 | 1618.5 | 1537.5 | 1391.8 | 1170.7 | 916.5  | 627.6  | 378.0 | 85.1  | 2.0   | 0.0  |
| 40°   | 1570.6 | 1544.6 | 1454.9 | 1288.9 | 1080.5 | 818.2  | 545.1  | 309.7 | 72.3  | 1.0   | 0.0  |
| 42.5° | 1307.7 | 1272.1 | 1168.1 | 1003.1 | 798.8  | 588.4  | 360.7  | 172.2 | 47.9  | 0.0   | 0.0  |
| 45°   | 973.0  | 941.4  | 839.5  | 689.3  | 532.4  | 360.2  | 193.1  | 101.4 | 29.5  | 0.0   | 0.0  |
| 47.5° | 549.7  | 546.1  | 479.9  | 395.8  | 297.0  | 191.5  | 97.8   | 61.1  | 12.7  | 0.0   | 0.0  |
| 50°   | 295.5  | 277.1  | 238.9  | 181.4  | 123.8  | 83.5   | 53.0   | 33.6  | 2.5   | 0.0   | 0.0  |
| 52.5° | 108.0  | 104.4  | 87.6   | 72.8   | 56.0   | 38.2   | 27.0   | 14.8  | 0.0   | 0.0   | 0.0  |
| 55°   | 14.3   | 13.2   | 13.8   | 14.8   | 15.3   | 13.2   | 8.7    | 3.1   | 0.0   | 0.0   | 0.0  |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.5    | 1.0    | 1.0    | 1.0    | 0.0   | 0.0   | 0.0   | 0.5  |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.5   | 0.5  |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.5   | 0.5  |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.5   | 1.0  |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 1.0   | 1.0  |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 1.0   | 1.0  |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 1.0   | 1.0  |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 1.0   | 1.0  |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 1.0   | 1.0  |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 1.0   | 1.0  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.0   | 1.0 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.0   | 1.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.0   | 1.0 |
| 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: P1316107

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**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0°    | 40.2   | 40.2 | 40.2   | 40.2 |
| 2.5°  | 31.1   | 23.9 | 20.4   | 19.9 |
| 5°    | 21.4   | 13.2 | 9.7    | 9.2  |
| 7.5°  | 14.8   | 6.6  | 4.6    | 4.1  |
| 10°   | 8.7    | 3.1  | 1.5    | 1.0  |
| 12.5° | 5.1    | 0.5  | 0.0    | 0.0  |
| 15°   | 1.5    | 0.0  | 0.0    | 0.0  |
| 17.5° | 0.0    | 0.0  | 0.0    | 0.0  |
| 20°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 21°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 22°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 23°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 24°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 25°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 26°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 27°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 37°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 38°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 39°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 42.5° | 0.0    | 0.0  | 0.0    | 0.0  |
| 45°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 47.5° | 0.0    | 0.0  | 0.0    | 0.0  |
| 50°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 52.5° | 0.0    | 0.0  | 0.0    | 0.0  |
| 55°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 57.5° | 0.0    | 0.0  | 0.0    | 0.0  |
| 60°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 62.5° | 0.0    | 0.0  | 0.0    | 0.0  |
| 65°   | 0.5    | 0.0  | 0.0    | 0.0  |
| 67.5° | 0.5    | 0.0  | 0.0    | 0.0  |
| 70°   | 0.5    | 0.0  | 0.0    | 0.0  |
| 72.5° | 0.5    | 0.0  | 0.0    | 0.0  |
| 75°   | 0.5    | 0.0  | 0.0    | 0.0  |
| 77.5° | 0.5    | 0.0  | 0.0    | 0.0  |
| 80°   | 0.5    | 0.0  | 0.0    | 0.0  |



TEST NUMBER: P1316107

CATALOG NUMBER: P3SQAS09R359827DE010 E3SQCA301MB

**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)