

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: P1313080

Luminaire Tested: P3SQAS05R309730DE010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313080  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-50)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS05R309730DE010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 97CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

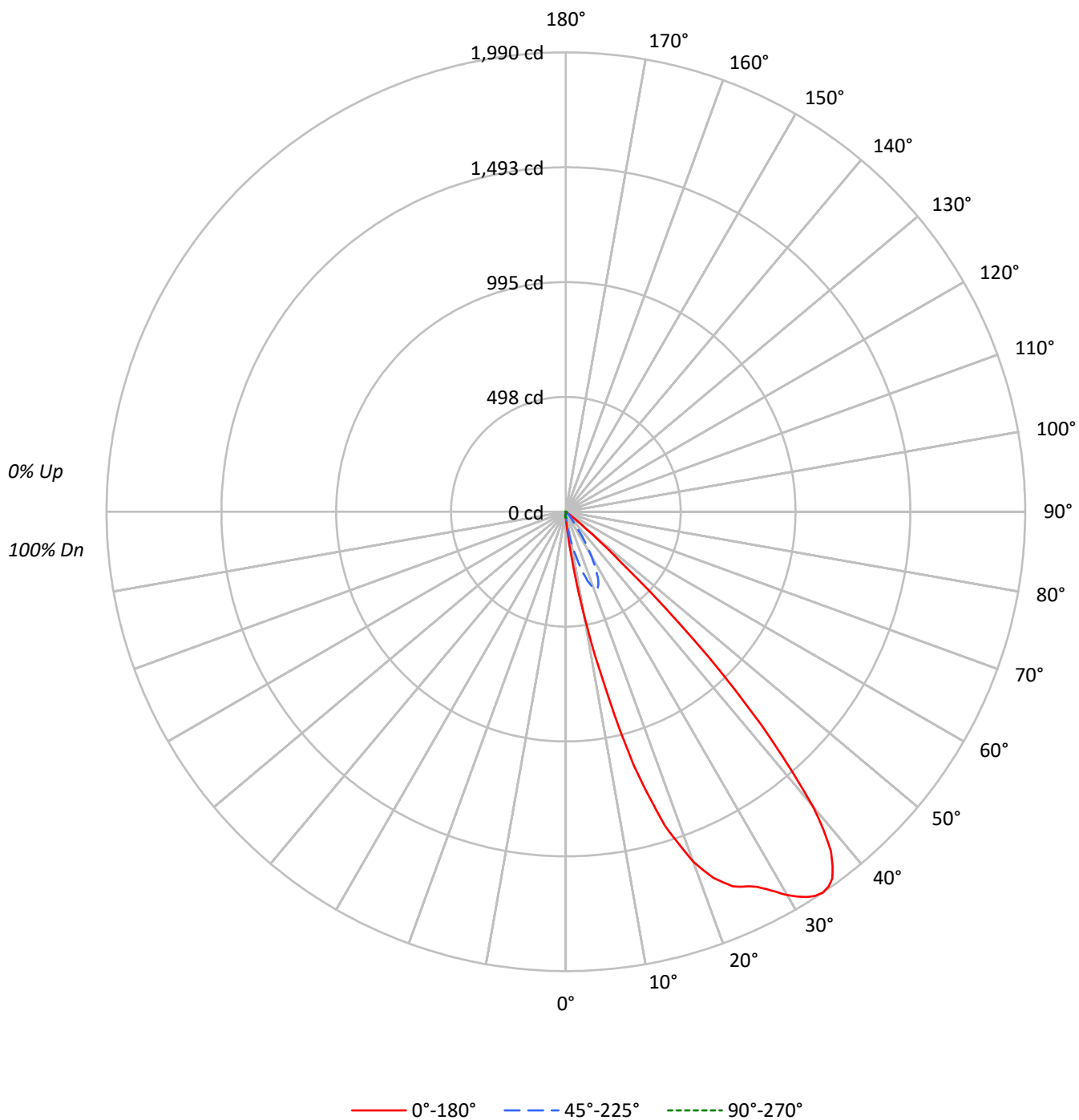
Lumens per Lamp: N/A  
Luminaire Lumens: 478.9 lumens  
Efficiency: N/A  
Efficacy: 66.5 lumens/watt  
Spacing Criteria (0/90/45): 2.41 / 0.46 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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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### 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 | 98  | 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  | 78  | 74  | 70  | 77  | 73  | 70  | 68  |    |    |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  | 61  |    |    |
| 6   | 81  | 71  | 64  | 58  | 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  | 43  | 41  |    |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 43  | 39  | 37  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 4409   | 4409  | 4409 | 4409 | 4409 |
| 5°  | 16009  | 9941  | 4045 | 1625 | 1158 |
| 10° | 79238  | 23819 | 3148 | 315  | 0    |
| 15° | 202136 | 45359 | 1997 | 0    | 0    |
| 20° | 295348 | 64513 | 825  | 0    | 0    |
| 25° | 340737 | 63298 | 171  | 0    | 0    |
| 30° | 381345 | 43452 | 0    | 0    | 0    |
| 35° | 417063 | 18712 | 0    | 0    | 0    |
| 40° | 374326 | 7284  | 0    | 0    | 0    |
| 45° | 191170 | 2947  | 0    | 0    | 0    |
| 50° | 29499  | 348   | 0    | 0    | 0    |
| 55° | 1742   | 0     | 120  | 0    | 0    |
| 60° | 0      | 0     | 138  | 0    | 0    |
| 65° | 0      | 0     | 367  | 0    | 0    |
| 70° | 0      | 201   | 453  | 0    | 0    |
| 75° | 0      | 266   | 865  | 0    | 0    |
| 80° | 0      | 397   | 1289 | 0    | 0    |
| 85° | 0      | 790   | 2569 | 0    | 0    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 191170 cd/sqm

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CATALOG NUMBER: P3SQAS05R309730DE010 E3SQCA301MB

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.4    | 1.1       |
| 10°-20°   | 63.8   | 13.3      |
| 20°-30°   | 157.7  | 32.9      |
| 30°-40°   | 181.4  | 37.9      |
| 40°-50°   | 67.3   | 14.0      |
| 50°-60°   | 2.4    | 0.5       |
| 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°    | 226.9  | 47.4      |
| 0°-40°    | 408.3  | 85.2      |
| 0°-60°    | 478.0  | 99.8      |
| 0°-90°    | 478.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 478.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 26   | 26  | 26  | 26   | 26   |      |
| 5°  | 93   | 58  | 23  | 9    | 7    | 20   |
| 15° | 1134 | 254 | 11  | 0    | 0    | 326  |
| 25° | 1793 | 333 | 1   | 0    | 0    | 828  |
| 35° | 1984 | 89  | 0   | 0    | 0    | 1203 |
| 45° | 785  | 12  | 0   | 0    | 0    | 611  |
| 55° | 6    | 0   | 0   | 0    | 0    | 20   |
| 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    |      |

TEST NUMBER: P1313080

CATALOG NUMBER: P3SQAS05R309730DE010 E3SQCA301MB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 45°   | 67.5° | 90°  | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|--------|
| 0°    | 25.6   | 25.6   | 25.6   | 25.6   | 25.6   | 25.6   | 25.6   | 25.6  | 25.6  | 25.6 | 25.6   |
| 2.5°  | 45.4   | 45.9   | 45.9   | 44.5   | 44.1   | 43.6   | 42.3   | 38.2  | 31.9  | 25.6 | 20.7   |
| 5°    | 92.6   | 93.0   | 93.0   | 90.4   | 85.0   | 79.6   | 75.1   | 57.5  | 36.9  | 23.4 | 15.3   |
| 7.5°  | 218.5  | 218.9  | 209.5  | 198.7  | 177.1  | 165.9  | 145.2  | 88.6  | 41.8  | 21.1 | 9.9    |
| 10°   | 453.1  | 443.2  | 418.5  | 387.0  | 353.8  | 310.6  | 267.0  | 136.2 | 45.4  | 18.0 | 6.3    |
| 12.5° | 757.4  | 748.0  | 716.1  | 671.1  | 605.9  | 521.4  | 438.7  | 191.5 | 45.9  | 14.4 | 3.6    |
| 15°   | 1133.7 | 1107.2 | 1068.9 | 994.3  | 898.1  | 767.3  | 630.7  | 254.4 | 44.1  | 11.2 | 0.9    |
| 17.5° | 1425.4 | 1401.1 | 1352.6 | 1265.4 | 1145.8 | 1000.6 | 833.0  | 314.2 | 39.1  | 7.2  | 0.0    |
| 20°   | 1611.5 | 1585.9 | 1540.5 | 1463.6 | 1336.4 | 1166.0 | 974.1  | 352.0 | 32.4  | 4.5  | 0.0    |
| 21°   | 1664.6 | 1639.8 | 1595.3 | 1518.9 | 1392.1 | 1222.2 | 1008.7 | 360.1 | 29.2  | 3.6  | 0.0    |
| 22°   | 1711.3 | 1692.0 | 1650.6 | 1567.5 | 1438.4 | 1263.6 | 1043.8 | 361.0 | 27.0  | 2.7  | 0.0    |
| 23°   | 1744.1 | 1730.2 | 1688.8 | 1612.4 | 1483.9 | 1297.3 | 1062.7 | 355.6 | 24.3  | 1.8  | 0.0    |
| 24°   | 1775.6 | 1758.5 | 1723.0 | 1652.0 | 1519.8 | 1325.6 | 1079.7 | 345.7 | 21.6  | 1.3  | 0.0    |
| 25°   | 1793.1 | 1773.3 | 1745.9 | 1679.4 | 1549.5 | 1343.6 | 1090.1 | 333.1 | 18.9  | 0.9  | 0.0    |
| 26°   | 1805.3 | 1790.0 | 1759.9 | 1695.6 | 1562.1 | 1355.3 | 1091.4 | 314.7 | 17.1  | 0.4  | 0.0    |
| 27°   | 1823.7 | 1808.4 | 1779.2 | 1710.0 | 1567.5 | 1353.5 | 1083.3 | 293.5 | 14.8  | 0.0  | 0.0    |
| 28°   | 1851.6 | 1831.3 | 1802.1 | 1725.2 | 1569.7 | 1345.8 | 1065.4 | 270.6 | 12.6  | 0.0  | 0.0    |
| 29°   | 1883.5 | 1862.8 | 1830.9 | 1745.5 | 1570.2 | 1330.6 | 1037.0 | 245.4 | 11.2  | 0.0  | 0.0    |
| 30°   | 1917.6 | 1899.7 | 1867.3 | 1765.2 | 1575.1 | 1310.8 | 1004.2 | 218.5 | 9.0   | 0.0  | 0.0    |
| 31°   | 1944.6 | 1928.4 | 1893.8 | 1783.2 | 1579.1 | 1293.7 | 963.8  | 191.5 | 7.6   | 0.0  | 0.0    |
| 32°   | 1968.0 | 1953.6 | 1910.9 | 1787.3 | 1571.1 | 1269.4 | 920.6  | 165.4 | 6.3   | 0.0  | 0.0    |
| 33°   | 1984.2 | 1966.2 | 1916.3 | 1776.9 | 1547.7 | 1229.4 | 872.5  | 140.7 | 4.9   | 0.0  | 0.0    |
| 34°   | 1990.0 | 1968.4 | 1908.2 | 1750.0 | 1500.5 | 1168.7 | 810.0  | 115.1 | 4.0   | 0.0  | 0.0    |
| 35°   | 1983.7 | 1957.2 | 1879.0 | 1703.7 | 1436.7 | 1096.4 | 735.0  | 89.0  | 3.1   | 0.0  | 0.0    |
| 36°   | 1963.5 | 1929.8 | 1837.2 | 1637.6 | 1345.4 | 1011.0 | 659.9  | 69.2  | 2.2   | 0.0  | 0.0    |
| 37°   | 1919.9 | 1882.6 | 1765.7 | 1550.4 | 1255.0 | 913.0  | 574.5  | 53.9  | 1.3   | 0.0  | 0.0    |
| 38°   | 1866.4 | 1812.4 | 1670.4 | 1440.2 | 1138.2 | 802.8  | 490.0  | 44.5  | 0.9   | 0.0  | 0.0    |
| 39°   | 1775.1 | 1715.8 | 1557.1 | 1313.5 | 1023.5 | 698.1  | 407.7  | 38.7  | 0.4   | 0.0  | 0.0    |
| 40°   | 1665.0 | 1594.4 | 1427.7 | 1177.7 | 888.2  | 588.4  | 340.3  | 32.4  | 0.4   | 0.0  | 0.0    |
| 42.5° | 1255.9 | 1196.2 | 1016.8 | 801.0  | 543.0  | 347.0  | 188.8  | 21.1  | 0.0   | 0.0  | 0.0    |
| 45°   | 784.9  | 722.4  | 601.0  | 439.2  | 294.0  | 179.8  | 90.8   | 12.1  | 0.0   | 0.0  | 0.0    |
| 47.5° | 320.5  | 294.0  | 241.8  | 186.1  | 133.1  | 84.5   | 37.8   | 5.4   | 0.0   | 0.0  | 0.0    |
| 50°   | 110.1  | 98.0   | 82.3   | 60.2   | 42.7   | 29.2   | 19.8   | 1.3   | 0.0   | 0.0  | 0.0    |
| 52.5° | 31.9   | 32.4   | 28.3   | 24.3   | 18.9   | 13.5   | 9.9    | 0.0   | 0.0   | 0.0  | 0.0    |
| 55°   | 5.8    | 4.9    | 5.8    | 5.4    | 5.8    | 4.9    | 3.6    | 0.0   | 0.0   | 0.4  | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.0   | 0.4   | 0.4  | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.4   | 0.4  | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.4   | 0.9  | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.4   | 0.9  | 0.4    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4   | 0.9   | 0.9  | 0.4    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4   | 0.9   | 0.9  | 0.4    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4   | 0.9   | 1.3  | 0.4    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4   | 0.9   | 1.3  | 0.4    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4   | 0.9   | 1.3  | 0.4    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4   | 0.9   | 1.3  | 0.4    |



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CATALOG NUMBER: P3SQAS05R309730DE010 E3SQCA301MB

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.9   | 1.3 | 0.4    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.9   | 1.3 | 0.4    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.9   | 1.3 | 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    |

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**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 25.6 | 25.6   | 25.6 |
| 2.5°  | 16.6 | 14.8   | 13.9 |
| 5°    | 9.4  | 7.2    | 6.7  |
| 7.5°  | 4.9  | 3.1    | 2.7  |
| 10°   | 1.8  | 0.4    | 0.0  |
| 12.5° | 0.0  | 0.0    | 0.0  |
| 15°   | 0.0  | 0.0    | 0.0  |
| 17.5° | 0.0  | 0.0    | 0.0  |
| 20°   | 0.0  | 0.0    | 0.0  |
| 21°   | 0.0  | 0.0    | 0.0  |
| 22°   | 0.0  | 0.0    | 0.0  |
| 23°   | 0.0  | 0.0    | 0.0  |
| 24°   | 0.0  | 0.0    | 0.0  |
| 25°   | 0.0  | 0.0    | 0.0  |
| 26°   | 0.0  | 0.0    | 0.0  |
| 27°   | 0.0  | 0.0    | 0.0  |
| 28°   | 0.0  | 0.0    | 0.0  |
| 29°   | 0.0  | 0.0    | 0.0  |
| 30°   | 0.0  | 0.0    | 0.0  |
| 31°   | 0.0  | 0.0    | 0.0  |
| 32°   | 0.0  | 0.0    | 0.0  |
| 33°   | 0.0  | 0.0    | 0.0  |
| 34°   | 0.0  | 0.0    | 0.0  |
| 35°   | 0.0  | 0.0    | 0.0  |
| 36°   | 0.0  | 0.0    | 0.0  |
| 37°   | 0.0  | 0.0    | 0.0  |
| 38°   | 0.0  | 0.0    | 0.0  |
| 39°   | 0.0  | 0.0    | 0.0  |
| 40°   | 0.0  | 0.0    | 0.0  |
| 42.5° | 0.0  | 0.0    | 0.0  |
| 45°   | 0.0  | 0.0    | 0.0  |
| 47.5° | 0.0  | 0.0    | 0.0  |
| 50°   | 0.0  | 0.0    | 0.0  |
| 52.5° | 0.0  | 0.0    | 0.0  |
| 55°   | 0.0  | 0.0    | 0.0  |
| 57.5° | 0.0  | 0.0    | 0.0  |
| 60°   | 0.0  | 0.0    | 0.0  |
| 62.5° | 0.0  | 0.0    | 0.0  |
| 65°   | 0.0  | 0.0    | 0.0  |
| 67.5° | 0.0  | 0.0    | 0.0  |
| 70°   | 0.0  | 0.0    | 0.0  |
| 72.5° | 0.0  | 0.0    | 0.0  |
| 75°   | 0.0  | 0.0    | 0.0  |
| 77.5° | 0.0  | 0.0    | 0.0  |
| 80°   | 0.0  | 0.0    | 0.0  |





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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)