

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: PORTFOLIO

Report Number: P1326365

Luminaire Tested: LDSQA3D09R30W2N902765DE010 3LSQCA30R 1MMS\_2700K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1326365  
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: PORTFOLIO  
Catalog Number: LDSQA3D09R30W2N902765DE010 3LSQCA30R 1MMS\_2700K  
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 2700K CCT AND, 90CRI ,  
3LSQCA30R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

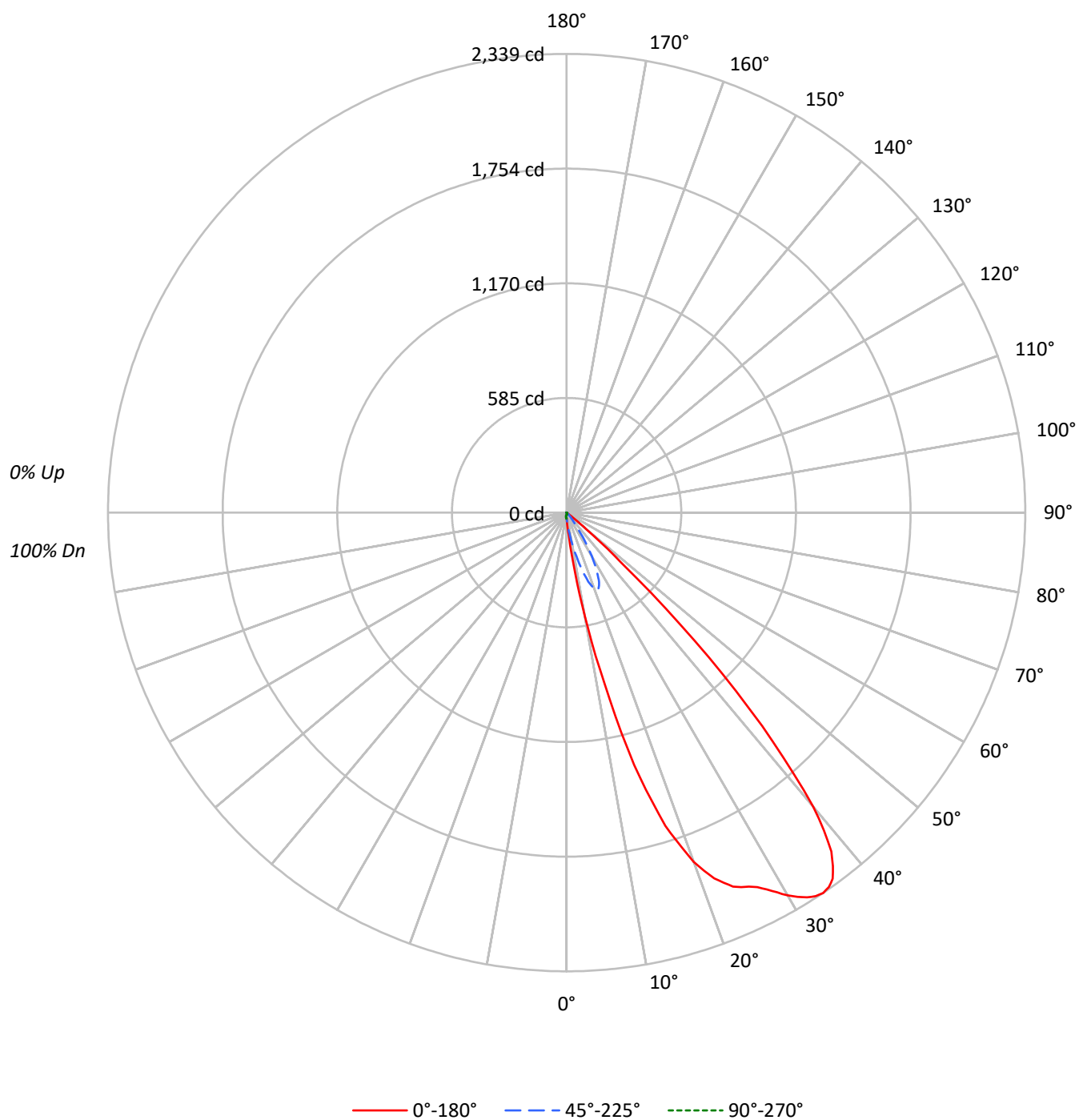
Lumens per Lamp: N/A  
Luminaire Lumens: 563.0 lumens  
Efficiency: N/A  
Efficacy: 62.6 lumens/watt  
Spacing Criteria (0/90/45): 2.41 / 0.46 / 1.21  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 9  
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  | 76  | 73  | 69  | 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°  | 5184   | 5184  | 5184 | 5184 | 5184 |
| 5°  | 18809  | 11687 | 4754 | 1919 | 1366 |
| 10° | 93141  | 27998 | 3690 | 367  | 0    |
| 15° | 237582 | 53311 | 2354 | 0    | 0    |
| 20° | 347142 | 75821 | 971  | 0    | 0    |
| 25° | 400500 | 74395 | 209  | 0    | 0    |
| 30° | 448223 | 51069 | 0    | 0    | 0    |
| 35° | 490207 | 21992 | 0    | 0    | 0    |
| 40° | 439974 | 8543  | 0    | 0    | 0    |
| 45° | 224684 | 3483  | 0    | 0    | 0    |
| 50° | 34670  | 429   | 0    | 0    | 0    |
| 55° | 2072   | 0     | 150  | 0    | 0    |
| 60° | 0      | 0     | 172  | 0    | 0    |
| 65° | 0      | 0     | 448  | 0    | 0    |
| 70° | 0      | 252   | 554  | 0    | 0    |
| 75° | 0      | 333   | 1065 | 0    | 0    |
| 80° | 0      | 496   | 1587 | 0    | 0    |
| 85° | 0      | 988   | 3162 | 0    | 0    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 224684 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.3    | 1.1       |
| 10°-20°   | 75.0   | 13.3      |
| 20°-30°   | 185.4  | 32.9      |
| 30°-40°   | 213.2  | 37.9      |
| 40°-50°   | 79.1   | 14.0      |
| 50°-60°   | 2.9    | 0.5       |
| 60°-70°   | 0.3    | 0.0       |
| 70°-80°   | 0.5    | 0.1       |
| 80°-90°   | 0.4    | 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°    | 266.7  | 47.4      |
| 0°-40°    | 479.9  | 85.2      |
| 0°-60°    | 561.8  | 99.8      |
| 0°-90°    | 563.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 563.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 30   | 30  | 30  | 30   | 30   |      |
| 5°  | 109  | 68  | 28  | 11   | 8    | 24   |
| 15° | 1332 | 299 | 13  | 0    | 0    | 383  |
| 25° | 2108 | 392 | 1   | 0    | 0    | 974  |
| 35° | 2332 | 105 | 0   | 0    | 0    | 1414 |
| 45° | 922  | 14  | 0   | 0    | 0    | 718  |
| 55° | 7    | 0   | 0   | 0    | 0    | 24   |
| 65° | 0    | 0   | 1   | 0    | 0    | 0    |
| 75° | 0    | 0   | 2   | 0    | 0    | 0    |
| 85° | 0    | 0   | 2   | 0    | 0    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 45°   | 67.5° | 90°  | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|--------|
| 0°    | 30.1   | 30.1   | 30.1   | 30.1   | 30.1   | 30.1   | 30.1   | 30.1  | 30.1  | 30.1 | 30.1   |
| 2.5°  | 53.4   | 53.9   | 53.9   | 52.3   | 51.8   | 51.2   | 49.7   | 44.9  | 37.5  | 30.1 | 24.3   |
| 5°    | 108.8  | 109.4  | 109.4  | 106.2  | 99.9   | 93.5   | 88.2   | 67.6  | 43.3  | 27.5 | 18.0   |
| 7.5°  | 256.8  | 257.3  | 246.2  | 233.5  | 208.2  | 195.0  | 170.7  | 104.1 | 49.1  | 24.8 | 11.6   |
| 10°   | 532.6  | 520.9  | 491.9  | 454.9  | 415.8  | 365.1  | 313.8  | 160.1 | 53.4  | 21.1 | 7.4    |
| 12.5° | 890.3  | 879.2  | 841.7  | 788.8  | 712.2  | 612.9  | 515.7  | 225.1 | 53.9  | 16.9 | 4.2    |
| 15°   | 1332.5 | 1301.3 | 1256.4 | 1168.7 | 1055.6 | 901.9  | 741.3  | 299.0 | 51.8  | 13.2 | 1.1    |
| 17.5° | 1675.4 | 1646.9 | 1589.8 | 1487.3 | 1346.8 | 1176.1 | 979.0  | 369.3 | 46.0  | 8.5  | 0.0    |
| 20°   | 1894.1 | 1864.0 | 1810.6 | 1720.3 | 1570.8 | 1370.5 | 1144.9 | 413.7 | 38.0  | 5.3  | 0.0    |
| 21°   | 1956.5 | 1927.4 | 1875.1 | 1785.3 | 1636.3 | 1436.6 | 1185.6 | 423.2 | 34.3  | 4.2  | 0.0    |
| 22°   | 2011.4 | 1988.7 | 1940.1 | 1842.3 | 1690.7 | 1485.2 | 1226.8 | 424.3 | 31.7  | 3.2  | 0.0    |
| 23°   | 2050.0 | 2033.6 | 1985.0 | 1895.2 | 1744.1 | 1524.8 | 1249.0 | 417.9 | 28.5  | 2.1  | 0.0    |
| 24°   | 2087.0 | 2066.9 | 2025.1 | 1941.7 | 1786.3 | 1558.1 | 1269.1 | 406.3 | 25.4  | 1.6  | 0.0    |
| 25°   | 2107.6 | 2084.3 | 2052.1 | 1973.9 | 1821.2 | 1579.2 | 1281.2 | 391.5 | 22.2  | 1.1  | 0.0    |
| 26°   | 2121.8 | 2103.9 | 2068.5 | 1992.9 | 1836.0 | 1593.0 | 1282.8 | 369.8 | 20.1  | 0.5  | 0.0    |
| 27°   | 2143.5 | 2125.5 | 2091.2 | 2009.8 | 1842.3 | 1590.8 | 1273.3 | 345.0 | 17.4  | 0.0  | 0.0    |
| 28°   | 2176.3 | 2152.5 | 2118.1 | 2027.8 | 1845.0 | 1581.9 | 1252.2 | 318.1 | 14.8  | 0.0  | 0.0    |
| 29°   | 2213.8 | 2189.5 | 2151.9 | 2051.6 | 1845.5 | 1563.9 | 1218.9 | 288.5 | 13.2  | 0.0  | 0.0    |
| 30°   | 2253.9 | 2232.8 | 2194.7 | 2074.8 | 1851.3 | 1540.7 | 1180.3 | 256.8 | 10.6  | 0.0  | 0.0    |
| 31°   | 2285.6 | 2266.6 | 2225.9 | 2095.9 | 1856.1 | 1520.6 | 1132.8 | 225.1 | 9.0   | 0.0  | 0.0    |
| 32°   | 2313.1 | 2296.2 | 2246.0 | 2100.7 | 1846.6 | 1492.0 | 1082.1 | 194.4 | 7.4   | 0.0  | 0.0    |
| 33°   | 2332.1 | 2311.0 | 2252.3 | 2088.5 | 1819.1 | 1445.0 | 1025.5 | 165.4 | 5.8   | 0.0  | 0.0    |
| 34°   | 2339.0 | 2313.6 | 2242.8 | 2056.8 | 1763.6 | 1373.7 | 952.1  | 135.3 | 4.8   | 0.0  | 0.0    |
| 35°   | 2331.6 | 2300.4 | 2208.5 | 2002.4 | 1688.6 | 1288.6 | 863.8  | 104.6 | 3.7   | 0.0  | 0.0    |
| 36°   | 2307.8 | 2268.2 | 2159.3 | 1924.8 | 1581.3 | 1188.2 | 775.6  | 81.4  | 2.6   | 0.0  | 0.0    |
| 37°   | 2256.6 | 2212.7 | 2075.3 | 1822.3 | 1475.1 | 1073.1 | 675.2  | 63.4  | 1.6   | 0.0  | 0.0    |
| 38°   | 2193.7 | 2130.3 | 1963.3 | 1692.8 | 1337.8 | 943.6  | 575.9  | 52.3  | 1.1   | 0.0  | 0.0    |
| 39°   | 2086.4 | 2016.7 | 1830.2 | 1543.8 | 1203.0 | 820.5  | 479.2  | 45.4  | 0.5   | 0.0  | 0.0    |
| 40°   | 1957.0 | 1874.0 | 1678.0 | 1384.3 | 1044.0 | 691.6  | 400.0  | 38.0  | 0.5   | 0.0  | 0.0    |
| 42.5° | 1476.2 | 1405.9 | 1195.1 | 941.5  | 638.2  | 407.9  | 221.9  | 24.8  | 0.0   | 0.0  | 0.0    |
| 45°   | 922.5  | 849.1  | 706.4  | 516.2  | 345.5  | 211.3  | 106.7  | 14.3  | 0.0   | 0.0  | 0.0    |
| 47.5° | 376.7  | 345.5  | 284.2  | 218.7  | 156.4  | 99.3   | 44.4   | 6.3   | 0.0   | 0.0  | 0.0    |
| 50°   | 129.4  | 115.2  | 96.7   | 70.8   | 50.2   | 34.3   | 23.2   | 1.6   | 0.0   | 0.0  | 0.0    |
| 52.5° | 37.5   | 38.0   | 33.3   | 28.5   | 22.2   | 15.9   | 11.6   | 0.0   | 0.0   | 0.0  | 0.0    |
| 55°   | 6.9    | 5.8    | 6.9    | 6.3    | 6.9    | 5.8    | 4.2    | 0.0   | 0.0   | 0.5  | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.0   | 0.5   | 0.5  | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 0.5  | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 1.1  | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.5   | 1.1  | 0.5    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5   | 1.1   | 1.1  | 0.5    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5   | 1.1   | 1.1  | 0.5    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5   | 1.1   | 1.6  | 0.5    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5   | 1.1   | 1.6  | 0.5    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5   | 1.1   | 1.6  | 0.5    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5   | 1.1   | 1.6  | 0.5    |



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**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 | 0.5 | 1.1   | 1.6 | 0.5    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.1   | 1.6 | 0.5    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.1   | 1.6 | 0.5    |
| 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°    | 30.1 | 30.1   | 30.1 |
| 2.5°  | 19.5 | 17.4   | 16.4 |
| 5°    | 11.1 | 8.5    | 7.9  |
| 7.5°  | 5.8  | 3.7    | 3.2  |
| 10°   | 2.1  | 0.5    | 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)