

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: P1324494

Luminaire Tested: LDSQA3D05R25W2N902750DE010 3LSQCA30R 1MW\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1324494  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-61)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R25W2N902750DE010 3LSQCA30R 1MW\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R25 optic, 4000K CCT AND, 90CRI ,  
3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

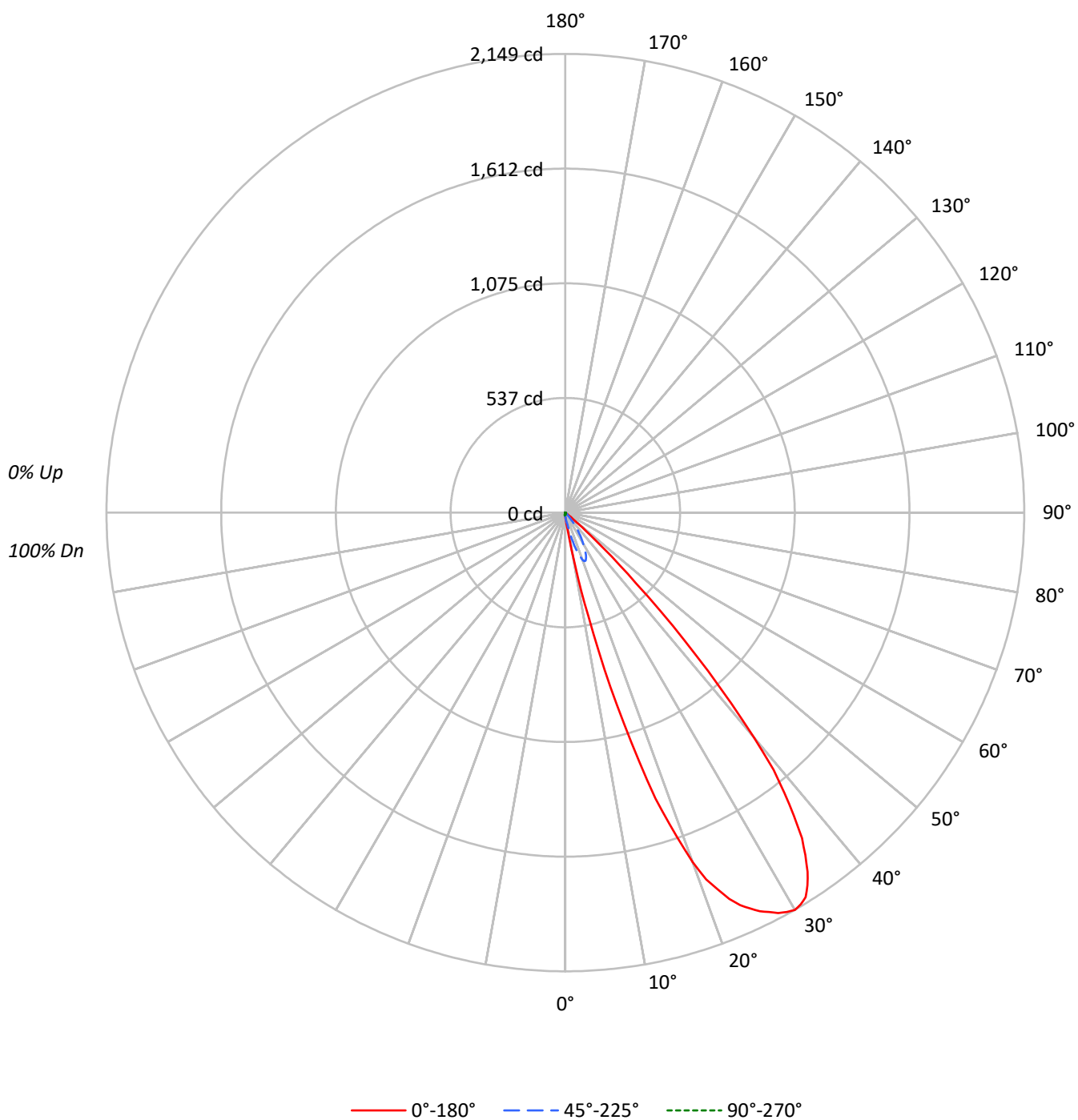
Lumens per Lamp: N/A  
Luminaire Lumens: 430.0 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Spacing Criteria (0/90/45): 2.36 / 0.51 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.9  
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 | 95  | 92  | 104 | 98  | 94  | 90  | 95  | 92  | 88  | 92  | 89  | 87  | 89  | 87  | 85  | 83  |    |    |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 79  | 77  | 75  |    |    |
| 4   | 93  | 84  | 77  | 72  | 91  | 83  | 77  | 72  | 80  | 75  | 71  | 78  | 74  | 70  | 76  | 73  | 69  | 68  |    |    |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 65  | 74  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  | 61  |    |    |
| 6   | 81  | 71  | 63  | 58  | 79  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 60  | 57  | 55  |    |    |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 52  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 50  |    |    |
| 8   | 71  | 60  | 52  | 48  | 70  | 59  | 52  | 47  | 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  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 42  | 39  | 37  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 3186   | 3186  | 3186 | 3186 | 3186 |
| 5°  | 7970   | 5895  | 2991 | 1521 | 1176 |
| 10° | 34871  | 10038 | 2448 | 700  | 490  |
| 15° | 165817 | 27048 | 1712 | 285  | 214  |
| 20° | 319193 | 43308 | 1100 | 73   | 73   |
| 25° | 388738 | 43687 | 608  | 0    | 0    |
| 30° | 427402 | 33429 | 239  | 0    | 0    |
| 35° | 411870 | 21256 | 84   | 0    | 0    |
| 40° | 307757 | 9195  | 0    | 0    | 90   |
| 45° | 113937 | 2436  | 97   | 97   | 292  |
| 50° | 13423  | 322   | 214  | 214  | 429  |
| 55° | 1321   | 0     | 240  | 360  | 601  |
| 60° | 138    | 0     | 413  | 551  | 689  |
| 65° | 163    | 163   | 652  | 815  | 978  |
| 70° | 201    | 201   | 806  | 806  | 1209 |
| 75° | 266    | 266   | 799  | 799  | 1065 |
| 80° | 0      | 397   | 1190 | 793  | 1190 |
| 85° | 0      | 790   | 2371 | 790  | 790  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 113937 cd/sqm

TEST NUMBER: P1324494

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.7    | 0.6       |
| 10°-20°   | 50.1   | 11.7      |
| 20°-30°   | 157.4  | 36.6      |
| 30°-40°   | 165.6  | 38.5      |
| 40°-50°   | 48.7   | 11.3      |
| 50°-60°   | 2.6    | 0.6       |
| 60°-70°   | 1.3    | 0.3       |
| 70°-80°   | 1.1    | 0.3       |
| 80°-90°   | 0.6    | 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°    | 210.2  | 48.9      |
| 0°-40°    | 375.8  | 87.4      |
| 0°-60°    | 427.1  | 99.3      |
| 0°-90°    | 430.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 430.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 18   | 18  | 18  | 18   | 18   |      |
| 5°  | 46   | 34  | 17  | 9    | 7    | 8    |
| 15° | 930  | 152 | 10  | 2    | 1    | 293  |
| 25° | 2046 | 230 | 3   | 0    | 0    | 938  |
| 35° | 1959 | 101 | 0   | 0    | 0    | 1182 |
| 45° | 468  | 10  | 0   | 0    | 1    | 425  |
| 55° | 4    | 0   | 1   | 1    | 2    | 11   |
| 65° | 0    | 0   | 2   | 2    | 2    | 0    |
| 75° | 0    | 0   | 1   | 1    | 2    | 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°   | 45°   | 67.5° | 90°  | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|--------|
| 0°    | 18.5   | 18.5   | 18.5   | 18.5   | 18.5   | 18.5   | 18.5  | 18.5  | 18.5  | 18.5 | 18.5   |
| 2.5°  | 28.5   | 28.9   | 27.7   | 28.5   | 27.7   | 27.3   | 26.9  | 24.9  | 21.7  | 18.5 | 15.2   |
| 5°    | 46.1   | 46.1   | 44.1   | 43.7   | 42.9   | 41.3   | 39.7  | 34.1  | 24.5  | 17.3 | 12.0   |
| 7.5°  | 72.2   | 71.8   | 71.0   | 69.0   | 65.0   | 61.0   | 57.0  | 44.5  | 26.9  | 16.0 | 9.2    |
| 10°   | 199.4  | 196.6  | 193.0  | 171.3  | 146.8  | 125.2  | 106.3 | 57.4  | 28.9  | 14.0 | 6.8    |
| 12.5° | 495.5  | 479.4  | 441.3  | 398.0  | 342.6  | 284.4  | 227.5 | 93.5  | 29.7  | 11.6 | 4.8    |
| 15°   | 930.0  | 896.7  | 837.3  | 750.6  | 637.5  | 510.3  | 402.0 | 151.7 | 28.9  | 9.6  | 3.6    |
| 17.5° | 1404.2 | 1372.1 | 1289.8 | 1158.3 | 991.8  | 796.4  | 604.6 | 201.0 | 26.9  | 8.0  | 2.4    |
| 20°   | 1741.6 | 1707.5 | 1630.5 | 1490.8 | 1310.7 | 1050.3 | 796.0 | 236.3 | 25.3  | 6.0  | 1.2    |
| 21°   | 1840.3 | 1806.2 | 1724.7 | 1589.9 | 1400.6 | 1139.4 | 857.4 | 242.3 | 24.1  | 5.2  | 0.8    |
| 22°   | 1902.9 | 1882.8 | 1795.3 | 1664.6 | 1471.6 | 1210.8 | 909.9 | 245.1 | 23.3  | 4.8  | 0.8    |
| 23°   | 1965.9 | 1935.8 | 1853.9 | 1715.9 | 1525.7 | 1263.8 | 948.8 | 243.1 | 22.5  | 4.0  | 0.4    |
| 24°   | 2012.4 | 1987.1 | 1892.0 | 1755.6 | 1563.5 | 1296.3 | 971.7 | 237.9 | 21.3  | 3.6  | 0.4    |
| 25°   | 2045.7 | 2022.4 | 1923.3 | 1782.5 | 1588.7 | 1313.9 | 978.9 | 229.9 | 20.1  | 3.2  | 0.4    |
| 26°   | 2077.4 | 2052.1 | 1949.4 | 1798.2 | 1602.0 | 1319.5 | 972.1 | 221.1 | 18.9  | 2.8  | 0.0    |
| 27°   | 2100.3 | 2074.6 | 1967.5 | 1807.4 | 1602.8 | 1312.7 | 953.6 | 209.0 | 17.7  | 2.4  | 0.0    |
| 28°   | 2124.7 | 2095.0 | 1979.9 | 1812.6 | 1598.0 | 1296.7 | 927.2 | 196.2 | 16.9  | 2.0  | 0.0    |
| 29°   | 2139.6 | 2111.5 | 1992.7 | 1818.2 | 1587.9 | 1269.8 | 888.6 | 180.9 | 14.8  | 1.2  | 0.0    |
| 30°   | 2149.2 | 2115.9 | 1991.5 | 1812.2 | 1574.7 | 1240.9 | 842.5 | 168.1 | 12.8  | 1.2  | 0.0    |
| 31°   | 2141.2 | 2106.3 | 1978.7 | 1795.3 | 1553.4 | 1203.2 | 795.2 | 152.1 | 10.4  | 0.8  | 0.0    |
| 32°   | 2123.9 | 2082.6 | 1956.2 | 1766.1 | 1515.3 | 1154.6 | 746.2 | 138.8 | 7.6   | 0.8  | 0.0    |
| 33°   | 2081.8 | 2046.9 | 1915.7 | 1726.7 | 1465.6 | 1088.8 | 682.4 | 126.0 | 5.2   | 0.4  | 0.0    |
| 34°   | 2028.8 | 1993.9 | 1860.3 | 1674.2 | 1399.0 | 1003.8 | 605.0 | 112.7 | 4.4   | 0.4  | 0.0    |
| 35°   | 1959.0 | 1924.5 | 1797.8 | 1600.8 | 1310.7 | 901.5  | 525.2 | 101.1 | 3.6   | 0.4  | 0.0    |
| 36°   | 1885.6 | 1839.9 | 1718.7 | 1522.5 | 1192.4 | 785.1  | 439.7 | 87.9  | 2.8   | 0.4  | 0.0    |
| 37°   | 1777.7 | 1746.8 | 1612.4 | 1403.4 | 1064.4 | 673.6  | 377.5 | 75.8  | 2.0   | 0.4  | 0.0    |
| 38°   | 1665.8 | 1637.3 | 1506.1 | 1283.4 | 921.5  | 563.3  | 316.1 | 64.2  | 1.6   | 0.0  | 0.0    |
| 39°   | 1550.2 | 1502.9 | 1373.3 | 1129.8 | 771.9  | 471.8  | 266.0 | 53.8  | 0.8   | 0.0  | 0.0    |
| 40°   | 1368.9 | 1332.8 | 1194.4 | 945.2  | 638.7  | 382.3  | 226.7 | 40.9  | 0.8   | 0.0  | 0.0    |
| 42.5° | 907.5  | 873.8  | 728.6  | 512.7  | 339.4  | 223.5  | 149.6 | 16.0  | 0.0   | 0.4  | 0.0    |
| 45°   | 467.8  | 446.5  | 362.7  | 268.4  | 192.6  | 137.2  | 96.3  | 10.0  | 0.0   | 0.4  | 0.4    |
| 47.5° | 185.8  | 182.1  | 164.5  | 142.0  | 109.5  | 81.4   | 52.6  | 4.4   | 0.0   | 0.4  | 0.4    |
| 50°   | 50.1   | 50.6   | 47.3   | 43.7   | 39.7   | 37.3   | 22.1  | 1.2   | 0.0   | 0.8  | 0.4    |
| 52.5° | 21.3   | 21.7   | 20.9   | 19.7   | 17.7   | 13.2   | 8.8   | 0.4   | 0.4   | 0.8  | 0.8    |
| 55°   | 4.4    | 4.8    | 5.2    | 5.6    | 6.4    | 5.6    | 3.6   | 0.0   | 0.4   | 0.8  | 0.8    |
| 57.5° | 0.8    | 0.8    | 0.8    | 0.8    | 1.2    | 1.2    | 0.8   | 0.0   | 0.4   | 0.8  | 1.2    |
| 60°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.0    | 0.0   | 0.0   | 0.8   | 1.2  | 1.2    |
| 62.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.8   | 1.2  | 1.6    |
| 65°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.8   | 1.6  | 1.6    |
| 67.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 1.2   | 1.6  | 1.6    |
| 70°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 1.2   | 1.6  | 1.6    |
| 72.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 1.2   | 1.6  | 1.2    |
| 75°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 1.2   | 1.2  | 1.2    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4    | 0.4   | 0.4   | 0.8   | 1.2  | 1.2    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4    | 0.4   | 0.4   | 0.8   | 1.2  | 0.8    |



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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 | 0.4 | 0.4 | 0.8   | 1.2 | 0.8    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.8   | 1.2 | 0.8    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.8   | 1.2 | 0.8    |
| 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°    | 18.5 | 18.5   | 18.5 |
| 2.5°  | 12.8 | 11.6   | 11.2 |
| 5°    | 8.8  | 7.6    | 6.8  |
| 7.5°  | 6.0  | 4.8    | 4.4  |
| 10°   | 4.0  | 3.2    | 2.8  |
| 12.5° | 2.8  | 1.6    | 1.6  |
| 15°   | 1.6  | 1.2    | 1.2  |
| 17.5° | 0.8  | 0.4    | 0.4  |
| 20°   | 0.4  | 0.4    | 0.4  |
| 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    | 0.4  |
| 39°   | 0.0  | 0.4    | 0.4  |
| 40°   | 0.0  | 0.4    | 0.4  |
| 42.5° | 0.0  | 0.4    | 0.8  |
| 45°   | 0.4  | 0.8    | 1.2  |
| 47.5° | 0.8  | 1.2    | 1.6  |
| 50°   | 0.8  | 1.6    | 1.6  |
| 52.5° | 1.2  | 1.6    | 2.0  |
| 55°   | 1.2  | 2.0    | 2.0  |
| 57.5° | 1.6  | 2.0    | 2.4  |
| 60°   | 1.6  | 2.0    | 2.0  |
| 62.5° | 1.6  | 2.4    | 2.4  |
| 65°   | 2.0  | 2.4    | 2.4  |
| 67.5° | 2.0  | 2.4    | 2.4  |
| 70°   | 1.6  | 2.0    | 2.4  |
| 72.5° | 1.6  | 2.0    | 2.0  |
| 75°   | 1.2  | 1.6    | 1.6  |
| 77.5° | 1.2  | 1.2    | 1.6  |
| 80°   | 0.8  | 1.2    | 1.2  |



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**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 82.5° | 0.8  | 0.8    | 0.8  |
| 85°   | 0.4  | 0.4    | 0.4  |
| 87.5° | 0.4  | 0.4    | 0.4  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)