

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: P1308621

Luminaire Tested: LDSQA3D24R509027D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308621  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D24R509027D010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

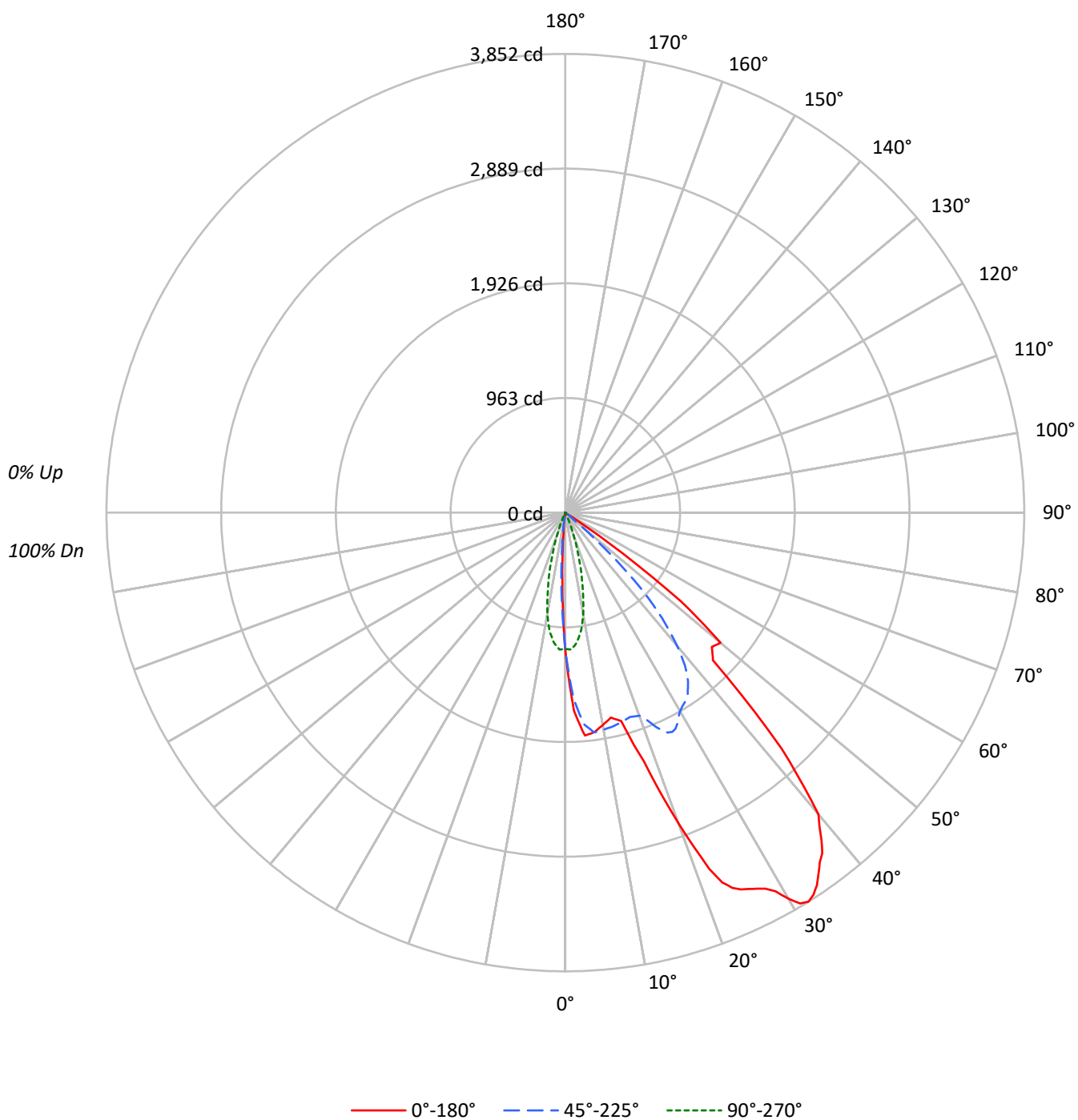
Lumens per Lamp: N/A  
Luminaire Lumens: 1844.0 lumens  
Efficiency: N/A  
Efficacy: 64.0 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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  |     |  |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0   |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |  |  |   |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |  |  |   |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 93  | 90  | 94  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 82  |  |  |   |
| 3   | 98  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 86  | 82  | 78  | 84  | 80  | 77  | 82  | 78  | 75  | 74  |  |  |   |
| 4   | 92  | 83  | 76  | 71  | 90  | 81  | 75  | 70  | 79  | 74  | 70  | 77  | 72  | 69  | 75  | 71  | 68  | 66  |  |  |   |
| 5   | 86  | 76  | 68  | 63  | 84  | 75  | 68  | 63  | 73  | 67  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |  |  |   |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 55  | 54  |  |  |   |
| 7   | 75  | 64  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 50  | 59  | 54  | 50  | 48  |  |  |   |
| 8   | 70  | 59  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 50  | 46  | 56  | 50  | 46  | 55  | 49  | 46  | 44  |  |  |   |
| 9   | 66  | 54  | 47  | 42  | 64  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 45  | 42  | 40  |  |  |   |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |  |  |   |

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

|     | 0°     | 45°    | 90°    | 135°   | 180°   |
|-----|--------|--------|--------|--------|--------|
| 0°  | 197178 | 197178 | 197178 | 197178 | 197178 |
| 5°  | 324877 | 308315 | 189494 | 56290  | 28145  |
| 10° | 316619 | 323579 | 151830 | 2851   | 3795   |
| 15° | 322809 | 324752 | 90950  | 2906   | 963    |
| 20° | 508846 | 332480 | 37462  | 0      | 0      |
| 25° | 663345 | 387350 | 8931   | 0      | 0      |
| 30° | 744553 | 383075 | 358    | 0      | 0      |
| 35° | 779168 | 377222 | 0      | 0      | 0      |
| 40° | 743325 | 327744 | 0      | 0      | 0      |
| 45° | 426863 | 216305 | 0      | 0      | 0      |
| 50° | 455536 | 24703  | 0      | 0      | 0      |
| 55° | 129803 | 0      | 0      | 0      | 0      |
| 60° | 0      | 0      | 620    | 0      | 0      |
| 65° | 0      | 734    | 734    | 0      | 0      |
| 70° | 0      | 906    | 906    | 0      | 0      |
| 75° | 0      | 1198   | 1198   | 0      | 0      |
| 80° | 0      | 1785   | 3570   | 1785   | 0      |
| 85° | 0      | 3557   | 7114   | 3557   | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $15^\circ$

Vertical Angle:  $45^\circ$

Luminance: 471361 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 96.2   | 5.2       |
| 10°-20°   | 242.2  | 13.1      |
| 20°-30°   | 465.3  | 25.2      |
| 30°-40°   | 541.6  | 29.4      |
| 40°-50°   | 387.6  | 21.0      |
| 50°-60°   | 107.9  | 5.9       |
| 60°-70°   | 0.7    | 0.0       |
| 70°-80°   | 1.1    | 0.1       |
| 80°-90°   | 1.3    | 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°    | 803.7  | 43.6      |
| 0°-40°    | 1345.3 | 73.0      |
| 0°-60°    | 1840.8 | 99.8      |
| 0°-90°    | 1844.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1844.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1145 | 1145 | 1145 | 1145 | 1145 |      |
| 5°  | 1879 | 1783 | 1096 | 326  | 163  | 172  |
| 15° | 1810 | 1821 | 510  | 16   | 5    | 584  |
| 25° | 3491 | 2038 | 47   | 0    | 0    | 1588 |
| 35° | 3706 | 1794 | 0    | 0    | 0    | 2293 |
| 45° | 1753 | 888  | 0    | 0    | 0    | 1648 |
| 55° | 432  | 0    | 0    | 0    | 0    | 544  |
| 65° | 0    | 2    | 2    | 0    | 0    | 0    |
| 75° | 0    | 2    | 2    | 0    | 0    | 0    |
| 85° | 0    | 2    | 4    | 2    | 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°    | 1144.9 | 1144.9 | 1144.9 | 1144.9 | 1144.9 | 1144.9 | 1144.9 | 1144.9 | 1144.9 | 1144.9 | 1144.9 |
| 2.5°  | 1664.0 | 1673.0 | 1674.9 | 1653.2 | 1656.8 | 1626.0 | 1627.8 | 1606.1 | 1553.7 | 1371.0 | 1150.3 |
| 5°    | 1879.2 | 1873.8 | 1879.2 | 1872.0 | 1879.2 | 1861.2 | 1850.3 | 1841.3 | 1783.4 | 1524.7 | 1096.1 |
| 7.5°  | 1859.3 | 1852.1 | 1863.0 | 1866.6 | 1879.2 | 1873.8 | 1875.6 | 1881.0 | 1861.2 | 1607.9 | 1003.8 |
| 10°   | 1810.5 | 1808.7 | 1814.1 | 1814.1 | 1828.6 | 1830.4 | 1837.6 | 1848.5 | 1850.3 | 1636.9 | 868.2  |
| 12.5° | 1763.5 | 1758.1 | 1758.1 | 1756.2 | 1763.5 | 1761.7 | 1779.8 | 1805.1 | 1839.4 | 1618.8 | 681.9  |
| 15°   | 1810.5 | 1805.1 | 1797.8 | 1778.0 | 1763.5 | 1747.2 | 1749.0 | 1765.3 | 1821.4 | 1571.8 | 510.1  |
| 17.5° | 2190.3 | 2161.4 | 2125.2 | 2061.9 | 1995.0 | 1879.2 | 1810.5 | 1767.1 | 1799.7 | 1499.4 | 340.0  |
| 20°   | 2776.4 | 2763.7 | 2705.8 | 2602.7 | 2494.2 | 2324.2 | 2112.6 | 1942.5 | 1814.1 | 1409.0 | 204.4  |
| 21°   | 2998.8 | 2991.6 | 2930.1 | 2834.2 | 2711.2 | 2505.0 | 2288.0 | 2083.6 | 1843.1 | 1371.0 | 161.0  |
| 22°   | 3226.7 | 3199.6 | 3150.8 | 3044.0 | 2915.6 | 2709.4 | 2467.1 | 2241.0 | 1900.9 | 1322.2 | 123.0  |
| 23°   | 3373.2 | 3356.9 | 3304.5 | 3219.5 | 3096.5 | 2895.7 | 2647.9 | 2402.0 | 1957.0 | 1267.9 | 92.2   |
| 24°   | 3449.2 | 3443.8 | 3402.2 | 3342.5 | 3237.6 | 3033.2 | 2798.1 | 2544.8 | 2004.0 | 1204.6 | 66.9   |
| 25°   | 3490.8 | 3472.7 | 3447.4 | 3404.0 | 3324.4 | 3147.1 | 2937.3 | 2669.6 | 2038.4 | 1141.3 | 47.0   |
| 26°   | 3516.1 | 3505.3 | 3465.5 | 3427.5 | 3351.5 | 3206.8 | 3027.8 | 2745.6 | 2047.4 | 1063.5 | 32.6   |
| 27°   | 3545.1 | 3519.7 | 3481.7 | 3436.5 | 3351.5 | 3224.9 | 3062.1 | 2778.2 | 2036.6 | 983.9  | 21.7   |
| 28°   | 3575.8 | 3557.7 | 3505.3 | 3447.4 | 3346.1 | 3224.9 | 3049.5 | 2734.8 | 2004.0 | 908.0  | 12.7   |
| 29°   | 3635.5 | 3612.0 | 3546.9 | 3461.9 | 3347.9 | 3221.3 | 3000.6 | 2644.3 | 1960.6 | 823.0  | 7.2    |
| 30°   | 3744.0 | 3695.2 | 3615.6 | 3496.2 | 3360.6 | 3214.1 | 2919.2 | 2508.7 | 1926.3 | 727.1  | 1.8    |
| 31°   | 3829.0 | 3801.9 | 3709.6 | 3559.5 | 3396.7 | 3194.2 | 2823.4 | 2374.8 | 1902.8 | 643.9  | 0.0    |
| 32°   | 3852.5 | 3832.6 | 3765.7 | 3624.6 | 3458.2 | 3177.9 | 2714.9 | 2244.6 | 1884.7 | 551.7  | 0.0    |
| 33°   | 3825.4 | 3812.7 | 3742.2 | 3613.8 | 3474.5 | 3156.2 | 2590.1 | 2116.2 | 1864.8 | 468.5  | 0.0    |
| 34°   | 3774.8 | 3758.5 | 3697.0 | 3566.8 | 3432.9 | 3062.1 | 2470.7 | 2018.5 | 1835.8 | 390.7  | 0.0    |
| 35°   | 3706.0 | 3693.4 | 3630.1 | 3501.6 | 3356.9 | 2915.6 | 2351.3 | 1953.4 | 1794.2 | 312.9  | 0.0    |
| 36°   | 3631.9 | 3628.3 | 3546.9 | 3420.3 | 3259.3 | 2774.5 | 2206.6 | 1904.6 | 1752.6 | 247.8  | 0.0    |
| 37°   | 3583.0 | 3564.9 | 3476.3 | 3351.5 | 3143.5 | 2610.0 | 2090.9 | 1888.3 | 1694.8 | 191.7  | 0.0    |
| 38°   | 3494.4 | 3498.0 | 3396.7 | 3282.8 | 3026.0 | 2467.1 | 1996.8 | 1875.6 | 1629.6 | 139.3  | 0.0    |
| 39°   | 3389.5 | 3391.3 | 3286.4 | 3188.7 | 2886.7 | 2316.9 | 1919.0 | 1863.0 | 1548.2 | 88.6   | 0.0    |
| 40°   | 3306.3 | 3304.5 | 3185.1 | 3080.2 | 2736.6 | 2175.9 | 1877.4 | 1844.9 | 1457.8 | 50.6   | 0.0    |
| 42.5° | 2687.7 | 2698.6 | 2713.0 | 2756.5 | 2383.9 | 1928.1 | 1837.6 | 1743.6 | 1201.0 | 0.0    | 0.0    |
| 45°   | 1752.6 | 1794.2 | 1805.1 | 1935.3 | 1933.5 | 1826.8 | 1743.6 | 1562.7 | 888.1  | 0.0    | 0.0    |
| 47.5° | 1667.6 | 1680.3 | 1703.8 | 1754.4 | 1781.6 | 1729.1 | 1559.1 | 1305.9 | 484.7  | 0.0    | 0.0    |
| 50°   | 1700.2 | 1698.4 | 1703.8 | 1703.8 | 1655.0 | 1519.3 | 1278.8 | 964.0  | 92.2   | 0.0    | 0.0    |
| 52.5° | 1220.9 | 1266.1 | 1314.9 | 1336.6 | 1273.3 | 1130.4 | 933.3  | 566.1  | 0.0    | 0.0    | 0.0    |
| 55°   | 432.3  | 417.8  | 407.0  | 444.9  | 435.9  | 490.2  | 405.1  | 132.0  | 0.0    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 1.8    | 7.2    | 16.3   | 21.7   | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    | 1.8    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    | 1.8    | 1.8    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    | 1.8    | 1.8    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    | 1.8    | 1.8    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    | 1.8    | 1.8    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    | 1.8    | 1.8    | 3.6    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    | 1.8    | 1.8    | 3.6    |



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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 | 1.8 | 1.8 | 1.8   | 3.6 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 | 1.8   | 3.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 1.8   | 3.6 |
| 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):**

|       | 112.5° | 135°   | 157.5° | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 1144.9 | 1144.9 | 1144.9 | 1144.9 |
| 2.5°  | 917.0  | 703.6  | 569.7  | 578.8  |
| 5°    | 643.9  | 325.6  | 200.8  | 162.8  |
| 7.5°  | 385.3  | 99.5   | 19.9   | 16.3   |
| 10°   | 180.9  | 16.3   | 18.1   | 21.7   |
| 12.5° | 54.3   | 14.5   | 19.9   | 18.1   |
| 15°   | 14.5   | 16.3   | 9.0    | 5.4    |
| 17.5° | 5.4    | 7.2    | 0.0    | 0.0    |
| 20°   | 3.6    | 0.0    | 0.0    | 0.0    |
| 21°   | 3.6    | 0.0    | 0.0    | 0.0    |
| 22°   | 1.8    | 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°   | 1.8    | 0.0    | 0.0    | 0.0    |
| 67.5° | 1.8    | 0.0    | 0.0    | 0.0    |
| 70°   | 1.8    | 0.0    | 0.0    | 0.0    |
| 72.5° | 1.8    | 0.0    | 0.0    | 0.0    |
| 75°   | 1.8    | 0.0    | 0.0    | 0.0    |
| 77.5° | 1.8    | 0.0    | 0.0    | 0.0    |
| 80°   | 1.8    | 1.8    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 1.8    | 1.8  | 0.0    | 0.0  |
| 85°   | 1.8    | 1.8  | 0.0    | 0.0  |
| 87.5° | 1.8    | 1.8  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)