

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: P1311670

Luminaire Tested: P3SQAS20R509050D010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311670  
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: IRiS  
Catalog Number: P3SQAS20R509050D010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

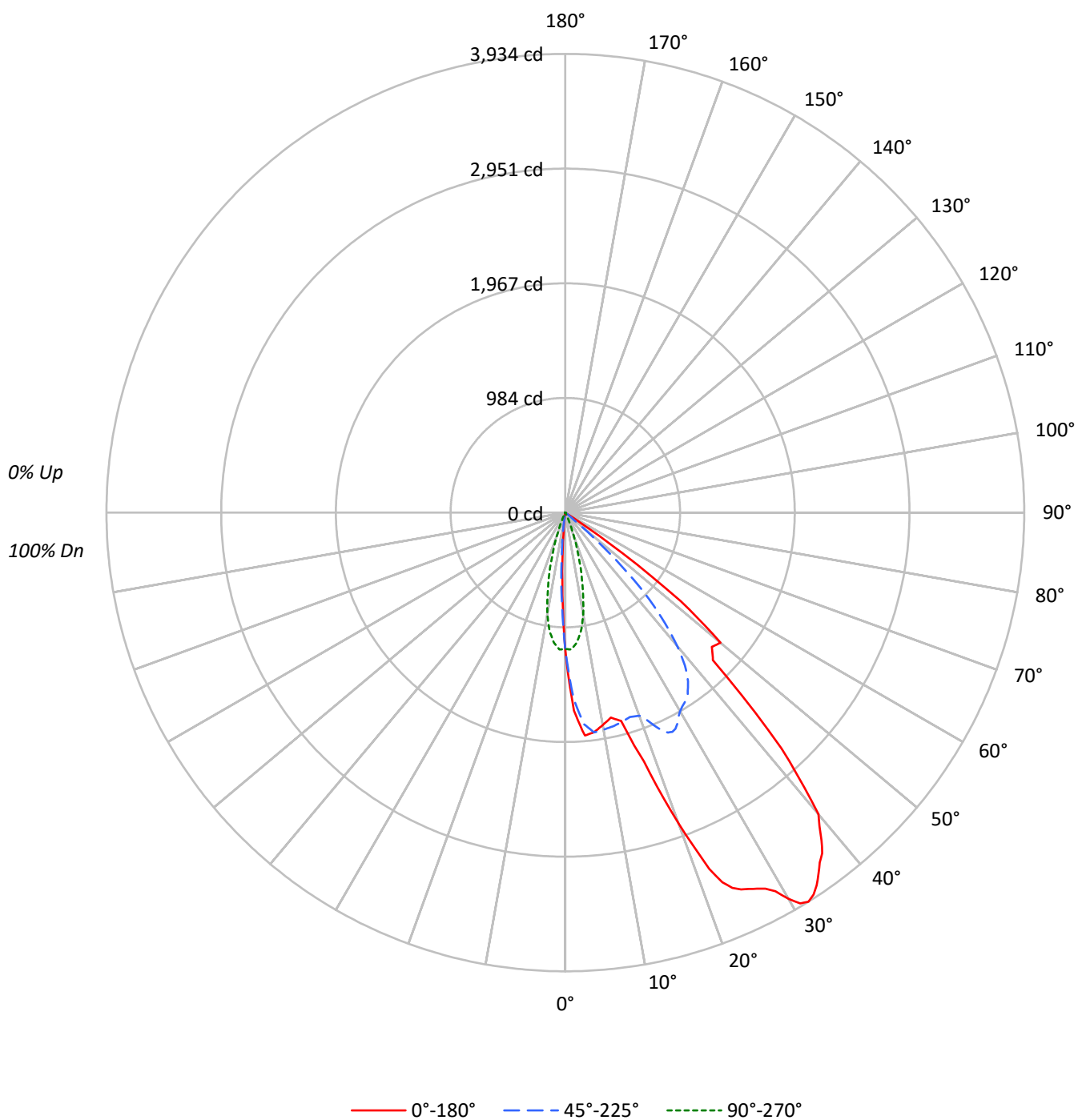
Lumens per Lamp: N/A  
Luminaire Lumens: 1882.9 lumens  
Efficiency: N/A  
Efficacy: 65.4 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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°  | 201345 | 201345 | 201345 | 201345 | 201345 |
| 5°  | 331758 | 314833 | 193505 | 57483  | 28733  |
| 10° | 323317 | 330417 | 155031 | 2903   | 3882   |
| 15° | 329637 | 331616 | 92858  | 2960   | 981    |
| 20° | 519604 | 339518 | 38250  | 0      | 0      |
| 25° | 677369 | 395540 | 9121   | 0      | 0      |
| 30° | 760303 | 391169 | 358    | 0      | 0      |
| 35° | 795651 | 385211 | 0      | 0      | 0      |
| 40° | 759040 | 334668 | 0      | 0      | 0      |
| 45° | 435899 | 220884 | 0      | 0      | 0      |
| 50° | 465155 | 25239  | 0      | 0      | 0      |
| 55° | 132535 | 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   | 3670   | 1785   | 0      |
| 85° | 0      | 3557   | 7311   | 3557   | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 481322 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 98.2   | 5.2       |
| 10°-20°   | 247.4  | 13.1      |
| 20°-30°   | 475.2  | 25.2      |
| 30°-40°   | 553.1  | 29.4      |
| 40°-50°   | 395.8  | 21.0      |
| 50°-60°   | 110.2  | 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°    | 820.7  | 43.6      |
| 0°-40°    | 1373.8 | 73.0      |
| 0°-60°    | 1879.8 | 99.8      |
| 0°-90°    | 1882.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1882.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1169 | 1169 | 1169 | 1169 | 1169 |      |
| 5°  | 1919 | 1821 | 1119 | 332  | 166  | 176  |
| 15° | 1849 | 1860 | 521  | 17   | 6    | 597  |
| 25° | 3565 | 2082 | 48   | 0    | 0    | 1621 |
| 35° | 3784 | 1832 | 0    | 0    | 0    | 2342 |
| 45° | 1790 | 907  | 0    | 0    | 0    | 1683 |
| 55° | 441  | 0    | 0    | 0    | 0    | 556  |
| 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°    | 1169.1 | 1169.1 | 1169.1 | 1169.1 | 1169.1 | 1169.1 | 1169.1 | 1169.1 | 1169.1 | 1169.1 | 1169.1 |
| 2.5°  | 1699.2 | 1708.4 | 1710.3 | 1688.1 | 1691.8 | 1660.4 | 1662.3 | 1640.1 | 1586.5 | 1400.0 | 1174.7 |
| 5°    | 1919.0 | 1913.4 | 1919.0 | 1911.6 | 1919.0 | 1900.5 | 1889.4 | 1880.2 | 1821.1 | 1557.0 | 1119.3 |
| 7.5°  | 1898.7 | 1891.3 | 1902.4 | 1906.1 | 1919.0 | 1913.4 | 1915.3 | 1920.8 | 1900.5 | 1641.9 | 1025.1 |
| 10°   | 1848.8 | 1847.0 | 1852.5 | 1852.5 | 1867.3 | 1869.1 | 1876.5 | 1887.6 | 1889.4 | 1671.5 | 886.5  |
| 12.5° | 1800.8 | 1795.2 | 1795.2 | 1793.4 | 1800.8 | 1798.9 | 1817.4 | 1843.3 | 1878.4 | 1653.0 | 696.3  |
| 15°   | 1848.8 | 1843.3 | 1835.9 | 1815.6 | 1800.8 | 1784.2 | 1786.0 | 1802.6 | 1859.9 | 1605.0 | 520.8  |
| 17.5° | 2236.7 | 2207.1 | 2170.2 | 2105.5 | 2037.2 | 1919.0 | 1848.8 | 1804.5 | 1837.7 | 1531.1 | 347.2  |
| 20°   | 2835.1 | 2822.1 | 2763.0 | 2657.8 | 2546.9 | 2373.3 | 2157.2 | 1983.6 | 1852.5 | 1438.8 | 208.7  |
| 21°   | 3062.2 | 3054.9 | 2992.1 | 2894.2 | 2768.6 | 2558.0 | 2336.4 | 2127.7 | 1882.0 | 1400.0 | 164.4  |
| 22°   | 3295.0 | 3267.3 | 3217.4 | 3108.4 | 2977.3 | 2766.7 | 2519.2 | 2288.4 | 1941.1 | 1350.1 | 125.6  |
| 23°   | 3444.6 | 3427.9 | 3374.4 | 3287.6 | 3162.0 | 2957.0 | 2703.9 | 2452.8 | 1998.4 | 1294.7 | 94.2   |
| 24°   | 3522.1 | 3516.6 | 3474.1 | 3413.2 | 3306.0 | 3097.3 | 2857.2 | 2598.7 | 2046.4 | 1230.1 | 68.3   |
| 25°   | 3564.6 | 3546.1 | 3520.3 | 3476.0 | 3394.7 | 3213.7 | 2999.5 | 2726.1 | 2081.5 | 1165.4 | 48.0   |
| 26°   | 3590.5 | 3579.4 | 3538.8 | 3500.0 | 3422.4 | 3274.6 | 3091.8 | 2803.7 | 2090.8 | 1086.0 | 33.2   |
| 27°   | 3620.0 | 3594.2 | 3555.4 | 3509.2 | 3422.4 | 3293.1 | 3126.9 | 2836.9 | 2079.7 | 1004.7 | 22.2   |
| 28°   | 3651.4 | 3633.0 | 3579.4 | 3520.3 | 3416.9 | 3293.1 | 3114.0 | 2792.6 | 2046.4 | 927.2  | 12.9   |
| 29°   | 3712.4 | 3688.4 | 3621.9 | 3535.1 | 3418.7 | 3289.4 | 3064.1 | 2700.2 | 2002.1 | 840.4  | 7.4    |
| 30°   | 3823.2 | 3773.3 | 3692.1 | 3570.2 | 3431.6 | 3282.0 | 2981.0 | 2561.7 | 1967.0 | 742.5  | 1.8    |
| 31°   | 3910.0 | 3882.3 | 3788.1 | 3634.8 | 3468.6 | 3261.7 | 2883.1 | 2425.0 | 1943.0 | 657.5  | 0.0    |
| 32°   | 3934.0 | 3913.7 | 3845.4 | 3701.3 | 3531.4 | 3245.1 | 2772.3 | 2292.1 | 1924.5 | 563.3  | 0.0    |
| 33°   | 3906.3 | 3893.4 | 3821.3 | 3690.2 | 3548.0 | 3222.9 | 2644.8 | 2160.9 | 1904.2 | 478.4  | 0.0    |
| 34°   | 3854.6 | 3838.0 | 3775.2 | 3642.2 | 3505.5 | 3126.9 | 2522.9 | 2061.2 | 1874.7 | 398.9  | 0.0    |
| 35°   | 3784.4 | 3771.5 | 3706.8 | 3575.7 | 3427.9 | 2977.3 | 2401.0 | 1994.7 | 1832.2 | 319.5  | 0.0    |
| 36°   | 3708.7 | 3705.0 | 3621.9 | 3492.6 | 3328.2 | 2833.2 | 2253.3 | 1944.8 | 1789.7 | 253.0  | 0.0    |
| 37°   | 3658.8 | 3640.3 | 3549.8 | 3422.4 | 3210.0 | 2665.2 | 2135.1 | 1928.2 | 1730.6 | 195.8  | 0.0    |
| 38°   | 3568.3 | 3572.0 | 3468.6 | 3352.2 | 3090.0 | 2519.2 | 2039.0 | 1915.3 | 1664.1 | 142.2  | 0.0    |
| 39°   | 3461.2 | 3463.0 | 3355.9 | 3256.2 | 2947.7 | 2365.9 | 1959.6 | 1902.4 | 1581.0 | 90.5   | 0.0    |
| 40°   | 3376.2 | 3374.4 | 3252.5 | 3145.4 | 2794.4 | 2221.9 | 1917.1 | 1883.9 | 1488.6 | 51.7   | 0.0    |
| 42.5° | 2744.6 | 2755.7 | 2770.4 | 2814.8 | 2434.3 | 1968.9 | 1876.5 | 1780.5 | 1226.4 | 0.0    | 0.0    |
| 45°   | 1789.7 | 1832.2 | 1843.3 | 1976.2 | 1974.4 | 1865.4 | 1780.5 | 1595.8 | 906.9  | 0.0    | 0.0    |
| 47.5° | 1702.9 | 1715.8 | 1739.8 | 1791.5 | 1819.2 | 1765.7 | 1592.1 | 1333.5 | 495.0  | 0.0    | 0.0    |
| 50°   | 1736.1 | 1734.3 | 1739.8 | 1739.8 | 1690.0 | 1551.4 | 1305.8 | 984.4  | 94.2   | 0.0    | 0.0    |
| 52.5° | 1246.7 | 1292.9 | 1342.7 | 1364.9 | 1300.3 | 1154.3 | 953.0  | 578.1  | 0.0    | 0.0    | 0.0    |
| 55°   | 441.4  | 426.6  | 415.6  | 454.4  | 445.1  | 500.5  | 413.7  | 134.8  | 0.0    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 1.8    | 7.4    | 16.6   | 22.2   | 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    | 3.7    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    | 1.8    | 1.8    | 3.7    |



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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   | 3.7 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 | 1.8   | 3.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 1.8   | 3.7 |
| 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°    | 1169.1 | 1169.1 | 1169.1 | 1169.1 |
| 2.5°  | 936.4  | 718.5  | 581.8  | 591.0  |
| 5°    | 657.5  | 332.5  | 205.0  | 166.2  |
| 7.5°  | 393.4  | 101.6  | 20.3   | 16.6   |
| 10°   | 184.7  | 16.6   | 18.5   | 22.2   |
| 12.5° | 55.4   | 14.8   | 20.3   | 18.5   |
| 15°   | 14.8   | 16.6   | 9.2    | 5.5    |
| 17.5° | 5.5    | 7.4    | 0.0    | 0.0    |
| 20°   | 3.7    | 0.0    | 0.0    | 0.0    |
| 21°   | 3.7    | 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)