

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: P1326694

Luminaire Tested: LDSQA3D09R40W2N902765DE010 3LSQCA30R 1MB\_3000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1326694  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R40W2N902765DE010 3LSQCA30R 1MB\_3000K  
Description: 3in Adjustable Tunable White LED luminaire with, R40 optic, 3000K CCT AND, 90CRI ,  
3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

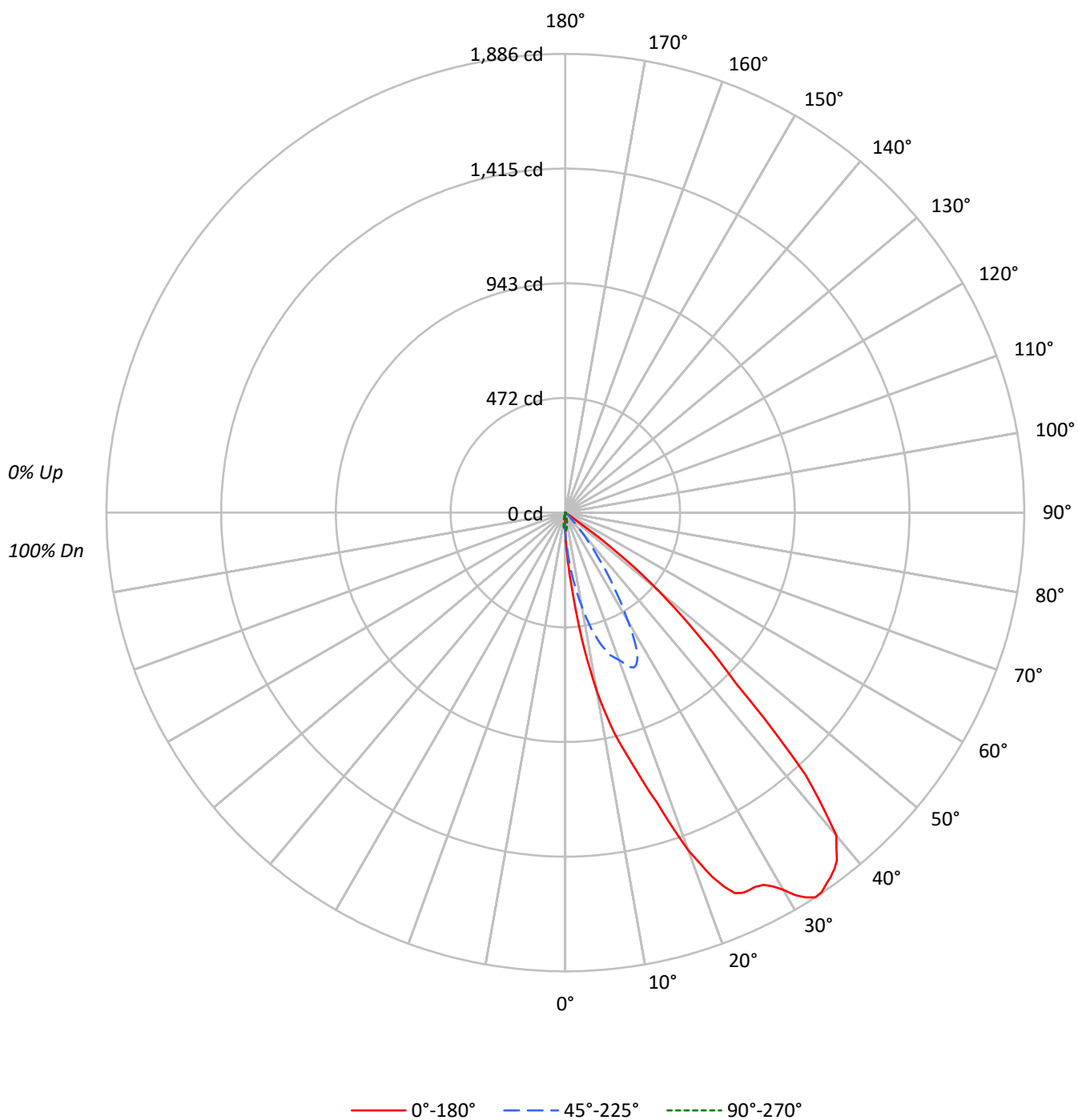
Lumens per Lamp: N/A  
Luminaire Lumens: 633.0 lumens  
Efficiency: N/A  
Efficacy: 70.3 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P1326694

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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 |
| 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  | 98  | 96  | 96  | 94  | 93  | 91  |    |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 83  |    |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 81  | 77  | 82  | 79  | 76  | 74  |    |
| 4   | 92  | 83  | 77  | 72  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 67  |    |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 64  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 60  |    |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 59  | 56  | 54  |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 60  | 55  | 51  | 59  | 54  | 50  | 49  |    |
| 8   | 70  | 59  | 51  | 47  | 69  | 58  | 51  | 46  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |
| 9   | 66  | 54  | 47  | 42  | 64  | 54  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 51  | 45  | 42  | 40  |    |
| 10  | 62  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 12744  | 12744  | 12744 | 12744 | 12744 |
| 5°  | 54112  | 36893  | 11185 | 2023  | 1003  |
| 10° | 130093 | 68605  | 6925  | 210   | 0     |
| 15° | 191456 | 99686  | 2906  | 0     | 0     |
| 20° | 270625 | 118176 | 1063  | 0     | 0     |
| 25° | 327796 | 131156 | 0     | 0     | 0     |
| 30° | 355910 | 102595 | 0     | 0     | 0     |
| 35° | 392443 | 60046  | 0     | 0     | 0     |
| 40° | 389502 | 24371  | 0     | 0     | 0     |
| 45° | 241221 | 7088   | 0     | 0     | 0     |
| 50° | 134314 | 161    | 0     | 0     | 0     |
| 55° | 13121  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 207   | 0     | 0     |
| 65° | 0      | 0      | 245   | 0     | 0     |
| 70° | 0      | 302    | 604   | 0     | 0     |
| 75° | 0      | 399    | 799   | 0     | 0     |
| 80° | 0      | 595    | 1190  | 0     | 0     |
| 85° | 0      | 1186   | 2371  | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 242366 cd/sqm

TEST NUMBER: P1326694

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 13.9   | 2.2       |
| 10°-20°   | 81.6   | 12.9      |
| 20°-30°   | 186.2  | 29.4      |
| 30°-40°   | 219.9  | 34.7      |
| 40°-50°   | 117.5  | 18.6      |
| 50°-60°   | 12.8   | 2.0       |
| 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°    | 281.7  | 44.5      |
| 0°-40°    | 501.6  | 79.2      |
| 0°-60°    | 631.9  | 99.8      |
| 0°-90°    | 633.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 633.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 74   | 74  | 74  | 74   | 74   |      |
| 5°  | 313  | 213 | 65  | 12   | 6    | 44   |
| 15° | 1074 | 559 | 16  | 0    | 0    | 319  |
| 25° | 1725 | 690 | 0   | 0    | 0    | 783  |
| 35° | 1867 | 286 | 0   | 0    | 0    | 1153 |
| 45° | 990  | 29  | 0   | 0    | 0    | 817  |
| 55° | 44   | 0   | 0   | 0    | 0    | 123  |
| 65° | 0    | 0   | 1   | 0    | 0    | 0    |
| 75° | 0    | 1   | 1   | 0    | 0    | 0    |
| 85° | 0    | 1   | 1   | 0    | 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°    | 74.0   | 74.0   | 74.0   | 74.0   | 74.0   | 74.0   | 74.0   | 74.0   | 74.0  | 74.0  | 74.0 |
| 2.5°  | 172.6  | 169.1  | 171.4  | 166.7  | 166.7  | 156.2  | 156.8  | 148.1  | 135.2 | 103.2 | 73.5 |
| 5°    | 313.0  | 327.0  | 316.0  | 301.4  | 293.2  | 282.7  | 268.7  | 254.2  | 213.4 | 128.8 | 64.7 |
| 7.5°  | 524.1  | 522.9  | 504.3  | 488.5  | 470.4  | 442.5  | 416.2  | 380.7  | 303.7 | 147.5 | 53.6 |
| 10°   | 743.9  | 739.8  | 718.8  | 705.4  | 671.0  | 630.8  | 577.1  | 520.0  | 392.3 | 153.9 | 39.6 |
| 12.5° | 926.9  | 921.7  | 904.2  | 881.4  | 843.5  | 792.8  | 735.1  | 659.9  | 485.6 | 146.9 | 25.7 |
| 15°   | 1073.8 | 1072.6 | 1055.7 | 1024.8 | 985.2  | 935.6  | 870.4  | 780.0  | 559.1 | 128.8 | 16.3 |
| 17.5° | 1248.1 | 1255.1 | 1224.8 | 1191.6 | 1134.4 | 1065.1 | 985.2  | 882.0  | 613.3 | 106.7 | 10.5 |
| 20°   | 1476.6 | 1466.7 | 1438.7 | 1390.4 | 1335.6 | 1252.2 | 1139.1 | 991.6  | 644.8 | 82.8  | 5.8  |
| 21°   | 1546.6 | 1542.5 | 1513.4 | 1468.5 | 1407.8 | 1323.3 | 1206.7 | 1047.6 | 659.3 | 74.0  | 4.7  |
| 22°   | 1617.7 | 1610.7 | 1588.0 | 1544.3 | 1487.1 | 1391.5 | 1263.3 | 1105.3 | 678.0 | 64.7  | 2.9  |
| 23°   | 1670.8 | 1667.8 | 1650.4 | 1607.2 | 1548.3 | 1455.6 | 1324.5 | 1158.9 | 690.8 | 56.0  | 1.7  |
| 24°   | 1711.6 | 1708.1 | 1690.6 | 1657.9 | 1607.2 | 1510.4 | 1386.3 | 1216.6 | 696.1 | 48.4  | 0.6  |
| 25°   | 1725.0 | 1726.7 | 1716.2 | 1690.6 | 1648.0 | 1551.2 | 1432.3 | 1262.1 | 690.2 | 41.4  | 0.0  |
| 26°   | 1725.6 | 1730.8 | 1723.2 | 1708.6 | 1673.7 | 1583.9 | 1475.5 | 1288.9 | 675.1 | 35.0  | 0.0  |
| 27°   | 1725.6 | 1730.8 | 1723.2 | 1712.1 | 1677.8 | 1602.5 | 1498.8 | 1291.8 | 651.7 | 29.7  | 0.0  |
| 28°   | 1733.7 | 1736.6 | 1726.7 | 1713.3 | 1676.0 | 1608.4 | 1505.2 | 1274.3 | 614.4 | 25.7  | 0.0  |
| 29°   | 1756.4 | 1753.5 | 1737.2 | 1719.1 | 1674.3 | 1608.4 | 1486.0 | 1241.1 | 567.8 | 21.6  | 0.0  |
| 30°   | 1789.7 | 1789.7 | 1764.0 | 1735.5 | 1682.4 | 1607.8 | 1455.1 | 1181.1 | 515.9 | 17.5  | 0.0  |
| 31°   | 1834.6 | 1830.5 | 1804.8 | 1762.3 | 1699.9 | 1607.8 | 1409.6 | 1114.6 | 468.1 | 15.2  | 0.0  |
| 32°   | 1864.9 | 1862.5 | 1838.1 | 1787.9 | 1728.5 | 1607.8 | 1360.6 | 1041.2 | 416.2 | 12.2  | 0.0  |
| 33°   | 1885.9 | 1881.2 | 1853.2 | 1801.3 | 1746.0 | 1599.6 | 1305.8 | 962.5  | 369.6 | 9.9   | 0.0  |
| 34°   | 1883.0 | 1881.8 | 1852.6 | 1799.0 | 1742.5 | 1565.8 | 1242.3 | 875.0  | 326.5 | 8.2   | 0.0  |
| 35°   | 1866.6 | 1866.6 | 1831.1 | 1775.7 | 1717.4 | 1516.3 | 1179.3 | 800.4  | 285.6 | 5.8   | 0.0  |
| 36°   | 1854.4 | 1849.7 | 1809.5 | 1747.7 | 1675.4 | 1438.2 | 1086.0 | 725.2  | 241.9 | 4.7   | 0.0  |
| 37°   | 1836.3 | 1827.6 | 1782.7 | 1716.2 | 1616.0 | 1353.6 | 988.1  | 658.2  | 204.6 | 2.9   | 0.0  |
| 38°   | 1813.0 | 1799.6 | 1744.8 | 1679.5 | 1550.7 | 1256.3 | 888.4  | 583.0  | 170.2 | 1.7   | 0.0  |
| 39°   | 1770.4 | 1759.4 | 1702.8 | 1632.3 | 1472.5 | 1153.7 | 791.7  | 512.4  | 137.6 | 0.6   | 0.0  |
| 40°   | 1732.5 | 1713.3 | 1649.2 | 1568.2 | 1381.0 | 1037.7 | 695.5  | 443.0  | 108.4 | 0.0   | 0.0  |
| 42.5° | 1460.9 | 1440.5 | 1425.9 | 1345.5 | 1100.0 | 745.0  | 485.6  | 283.9  | 56.5  | 0.0   | 0.0  |
| 45°   | 990.4  | 995.1  | 949.6  | 895.4  | 725.8  | 485.6  | 303.7  | 158.0  | 29.1  | 0.0   | 0.0  |
| 47.5° | 722.3  | 710.0  | 648.2  | 545.6  | 425.6  | 283.9  | 158.6  | 76.4   | 11.7  | 0.0   | 0.0  |
| 50°   | 501.3  | 478.0  | 422.1  | 345.1  | 231.4  | 135.2  | 70.0   | 35.6   | 0.6   | 0.0   | 0.0  |
| 52.5° | 272.2  | 255.9  | 216.9  | 157.4  | 96.2   | 51.9   | 28.0   | 14.6   | 0.0   | 0.0   | 0.0  |
| 55°   | 43.7   | 30.3   | 31.5   | 26.8   | 21.0   | 15.2   | 8.7    | 1.7    | 0.0   | 0.0   | 0.0  |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 0.0    | 0.0    | 0.0   | 0.6   | 0.6  |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.6   | 0.6  |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.6   | 0.6  |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.6   | 0.6  |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 1.2   | 1.2  |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6   | 1.2   | 1.2  |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6   | 1.2   | 1.2  |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 0.6   | 1.2   | 1.2  |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6   | 1.2   | 1.2  |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 0.6   | 1.2   | 1.2  |



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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 | 0.6 | 0.6 | 1.2   | 1.2 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.2   | 1.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 1.2   | 1.2 |
| 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°    | 74.0   | 74.0 | 74.0   | 74.0 |
| 2.5°  | 49.6   | 33.8 | 25.7   | 22.2 |
| 5°    | 28.6   | 11.7 | 6.4    | 5.8  |
| 7.5°  | 14.0   | 4.1  | 2.3    | 2.3  |
| 10°   | 5.8    | 1.2  | 0.0    | 0.0  |
| 12.5° | 1.7    | 0.0  | 0.0    | 0.0  |
| 15°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 17.5° | 0.0    | 0.0  | 0.0    | 0.0  |
| 20°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 21°   | 0.0    | 0.0  | 0.0    | 0.0  |
| 22°   | 0.0    | 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°   | 0.6    | 0.0  | 0.0    | 0.0  |
| 67.5° | 0.6    | 0.0  | 0.0    | 0.0  |
| 70°   | 0.6    | 0.0  | 0.0    | 0.0  |
| 72.5° | 0.6    | 0.0  | 0.0    | 0.0  |
| 75°   | 0.6    | 0.0  | 0.0    | 0.0  |
| 77.5° | 0.6    | 0.0  | 0.0    | 0.0  |
| 80°   | 0.6    | 0.0  | 0.0    | 0.0  |

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**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 0.6    | 0.0  | 0.0    | 0.0  |
| 85°   | 0.6    | 0.0  | 0.0    | 0.0  |
| 87.5° | 0.6    | 0.0  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)