

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: P1308503

Luminaire Tested: P3SQAS24R509030D010 E3SQCA301MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308503  
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: P3SQAS24R509030D010 E3SQCA301MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , E3SQCA301MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

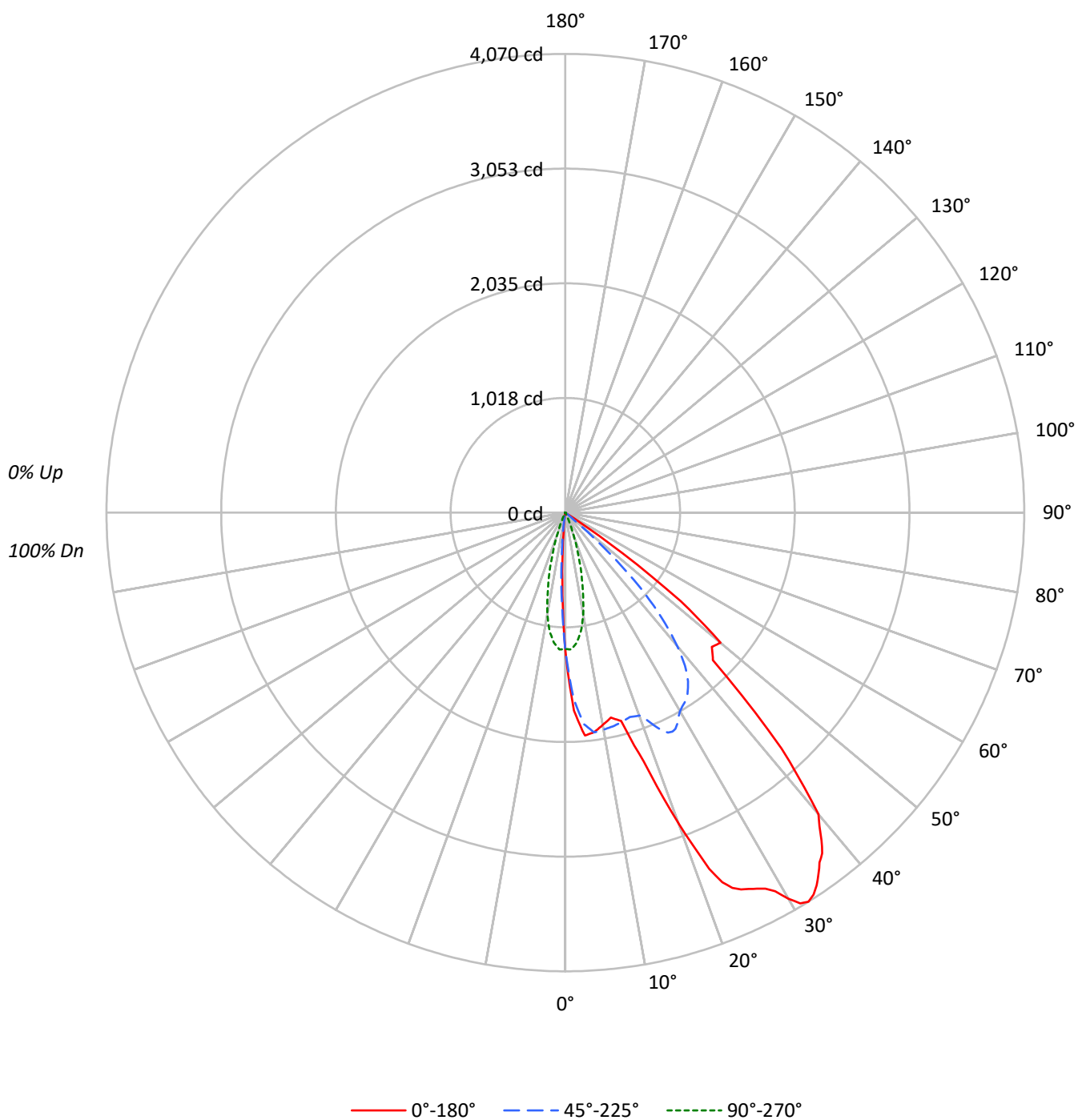
Lumens per Lamp: N/A  
Luminaire Lumens: 1948.0 lumens  
Efficiency: N/A  
Efficacy: 67.6 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  | 50  | 30 | 10 |
| 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°  | 208303 | 208303 | 208303 | 208303 | 208303 |
| 5°  | 343202 | 325707 | 200178 | 59454  | 29735  |
| 10° | 334474 | 341837 | 160382 | 3008   | 4005   |
| 15° | 341013 | 343063 | 96067  | 3067   | 1016   |
| 20° | 537529 | 351229 | 39569  | 0      | 0      |
| 25° | 700761 | 409203 | 9444   | 0      | 0      |
| 30° | 786553 | 404672 | 378    | 0      | 0      |
| 35° | 823109 | 398498 | 0      | 0      | 0      |
| 40° | 785254 | 346224 | 0      | 0      | 0      |
| 45° | 450951 | 228508 | 0      | 0      | 0      |
| 50° | 481231 | 26096  | 0      | 0      | 0      |
| 55° | 137129 | 0      | 0      | 0      | 0      |
| 60° | 0      | 0      | 654    | 0      | 0      |
| 65° | 0      | 774    | 774    | 0      | 0      |
| 70° | 0      | 957    | 957    | 0      | 0      |
| 75° | 0      | 1264   | 1264   | 0      | 0      |
| 80° | 0      | 1884   | 3769   | 1884   | 0      |
| 85° | 0      | 3754   | 7509   | 3754   | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 497958 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 101.6  | 5.2       |
| 10°-20°   | 255.9  | 13.1      |
| 20°-30°   | 491.6  | 25.2      |
| 30°-40°   | 572.2  | 29.4      |
| 40°-50°   | 409.5  | 21.0      |
| 50°-60°   | 114.0  | 5.9       |
| 60°-70°   | 0.8    | 0.0       |
| 70°-80°   | 1.2    | 0.1       |
| 80°-90°   | 1.4    | 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°    | 849.1  | 43.6      |
| 0°-40°    | 1421.2 | 73.0      |
| 0°-60°    | 1944.7 | 99.8      |
| 0°-90°    | 1948.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1948.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1210 | 1210 | 1210 | 1210 | 1210 |      |
| 5°  | 1985 | 1884 | 1158 | 344  | 172  | 182  |
| 15° | 1913 | 1924 | 539  | 17   | 6    | 617  |
| 25° | 3688 | 2153 | 50   | 0    | 0    | 1677 |
| 35° | 3915 | 1895 | 0    | 0    | 0    | 2422 |
| 45° | 1852 | 938  | 0    | 0    | 0    | 1741 |
| 55° | 457  | 0    | 0    | 0    | 0    | 575  |
| 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°    | 1209.5 | 1209.5 | 1209.5 | 1209.5 | 1209.5 | 1209.5 | 1209.5 | 1209.5 | 1209.5 | 1209.5 | 1209.5 |
| 2.5°  | 1757.9 | 1767.4 | 1769.3 | 1746.4 | 1750.2 | 1717.7 | 1719.6 | 1696.7 | 1641.3 | 1448.3 | 1215.2 |
| 5°    | 1985.2 | 1979.5 | 1985.2 | 1977.6 | 1985.2 | 1966.1 | 1954.7 | 1945.1 | 1884.0 | 1610.7 | 1157.9 |
| 7.5°  | 1964.2 | 1956.6 | 1968.0 | 1971.9 | 1985.2 | 1979.5 | 1981.4 | 1987.1 | 1966.1 | 1698.6 | 1060.4 |
| 10°   | 1912.6 | 1910.7 | 1916.4 | 1916.4 | 1931.7 | 1933.6 | 1941.3 | 1952.7 | 1954.7 | 1729.2 | 917.1  |
| 12.5° | 1862.9 | 1857.2 | 1857.2 | 1855.3 | 1862.9 | 1861.0 | 1880.1 | 1906.9 | 1943.2 | 1710.1 | 720.3  |
| 15°   | 1912.6 | 1906.9 | 1899.2 | 1878.2 | 1862.9 | 1845.7 | 1847.7 | 1864.9 | 1924.1 | 1660.4 | 538.8  |
| 17.5° | 2313.9 | 2283.3 | 2245.1 | 2178.2 | 2107.5 | 1985.2 | 1912.6 | 1866.8 | 1901.2 | 1584.0 | 359.2  |
| 20°   | 2932.9 | 2919.6 | 2858.4 | 2749.5 | 2634.9 | 2455.3 | 2231.7 | 2052.1 | 1916.4 | 1488.4 | 215.9  |
| 21°   | 3168.0 | 3160.3 | 3095.3 | 2994.1 | 2864.2 | 2646.3 | 2417.0 | 2201.1 | 1947.0 | 1448.3 | 170.1  |
| 22°   | 3408.7 | 3380.0 | 3328.5 | 3215.7 | 3080.1 | 2862.2 | 2606.2 | 2367.4 | 2008.2 | 1396.7 | 129.9  |
| 23°   | 3563.5 | 3546.3 | 3490.9 | 3401.1 | 3271.1 | 3059.0 | 2797.3 | 2537.4 | 2067.4 | 1339.4 | 97.4   |
| 24°   | 3643.7 | 3638.0 | 3594.0 | 3531.0 | 3420.2 | 3204.3 | 2955.9 | 2688.4 | 2117.1 | 1272.5 | 70.7   |
| 25°   | 3687.7 | 3668.6 | 3641.8 | 3596.0 | 3511.9 | 3324.6 | 3103.0 | 2820.2 | 2153.4 | 1205.7 | 49.7   |
| 26°   | 3714.4 | 3703.0 | 3660.9 | 3620.8 | 3540.5 | 3387.7 | 3198.5 | 2900.5 | 2162.9 | 1123.5 | 34.4   |
| 27°   | 3745.0 | 3718.2 | 3678.1 | 3630.3 | 3540.5 | 3406.8 | 3234.8 | 2934.8 | 2151.5 | 1039.4 | 22.9   |
| 28°   | 3777.5 | 3758.4 | 3703.0 | 3641.8 | 3534.8 | 3406.8 | 3221.5 | 2889.0 | 2117.1 | 959.2  | 13.4   |
| 29°   | 3840.5 | 3815.7 | 3746.9 | 3657.1 | 3536.7 | 3403.0 | 3169.9 | 2793.5 | 2071.2 | 869.4  | 7.6    |
| 30°   | 3955.2 | 3903.6 | 3819.5 | 3693.4 | 3550.1 | 3395.3 | 3083.9 | 2650.2 | 2034.9 | 768.1  | 1.9    |
| 31°   | 4045.0 | 4016.3 | 3918.9 | 3760.3 | 3588.3 | 3374.3 | 2982.6 | 2508.8 | 2010.1 | 680.2  | 0.0    |
| 32°   | 4069.8 | 4048.8 | 3978.1 | 3829.1 | 3653.3 | 3357.1 | 2868.0 | 2371.2 | 1991.0 | 582.8  | 0.0    |
| 33°   | 4041.1 | 4027.8 | 3953.3 | 3817.6 | 3670.5 | 3334.2 | 2736.1 | 2235.5 | 1969.9 | 494.9  | 0.0    |
| 34°   | 3987.6 | 3970.5 | 3905.5 | 3767.9 | 3626.5 | 3234.8 | 2610.0 | 2132.4 | 1939.4 | 412.7  | 0.0    |
| 35°   | 3915.0 | 3901.7 | 3834.8 | 3699.1 | 3546.3 | 3080.1 | 2483.9 | 2063.6 | 1895.4 | 330.6  | 0.0    |
| 36°   | 3836.7 | 3832.9 | 3746.9 | 3613.1 | 3443.1 | 2931.0 | 2331.1 | 2012.0 | 1851.5 | 261.8  | 0.0    |
| 37°   | 3785.1 | 3766.0 | 3672.4 | 3540.5 | 3320.8 | 2757.2 | 2208.8 | 1994.8 | 1790.3 | 202.5  | 0.0    |
| 38°   | 3691.5 | 3695.3 | 3588.3 | 3467.9 | 3196.6 | 2606.2 | 2109.4 | 1981.4 | 1721.5 | 147.1  | 0.0    |
| 39°   | 3580.7 | 3582.6 | 3471.8 | 3368.6 | 3049.5 | 2447.6 | 2027.3 | 1968.0 | 1635.6 | 93.6   | 0.0    |
| 40°   | 3492.8 | 3490.9 | 3364.8 | 3253.9 | 2890.9 | 2298.6 | 1983.3 | 1948.9 | 1540.0 | 53.5   | 0.0    |
| 42.5° | 2839.3 | 2850.8 | 2866.1 | 2911.9 | 2518.3 | 2036.8 | 1941.3 | 1841.9 | 1268.7 | 0.0    | 0.0    |
| 45°   | 1851.5 | 1895.4 | 1906.9 | 2044.5 | 2042.5 | 1929.8 | 1841.9 | 1650.9 | 938.2  | 0.0    | 0.0    |
| 47.5° | 1761.7 | 1775.0 | 1799.9 | 1853.4 | 1882.0 | 1826.6 | 1647.0 | 1379.5 | 512.1  | 0.0    | 0.0    |
| 50°   | 1796.1 | 1794.2 | 1799.9 | 1799.9 | 1748.3 | 1605.0 | 1350.9 | 1018.4 | 97.4   | 0.0    | 0.0    |
| 52.5° | 1289.7 | 1337.5 | 1389.1 | 1412.0 | 1345.1 | 1194.2 | 985.9  | 598.1  | 0.0    | 0.0    | 0.0    |
| 55°   | 456.7  | 441.4  | 429.9  | 470.0  | 460.5  | 517.8  | 428.0  | 139.5  | 0.0    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 1.9    | 7.6    | 17.2   | 22.9   | 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    | 1.9    | 1.9    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.9    | 1.9    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.9    | 1.9    | 1.9    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.9    | 1.9    | 1.9    | 1.9    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.9    | 1.9    | 1.9    | 1.9    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.9    | 1.9    | 1.9    | 1.9    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.9    | 1.9    | 1.9    | 1.9    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.9    | 1.9    | 1.9    | 1.9    | 3.8    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.9    | 1.9    | 1.9    | 1.9    | 3.8    |



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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 | 1.9 | 1.9 | 1.9   | 3.8 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 1.9 | 1.9 | 1.9   | 3.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 1.9 | 1.9   | 3.8 |
| 90°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 |

TEST NUMBER: P1308503

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**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°   | 157.5° | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 1209.5 | 1209.5 | 1209.5 | 1209.5 |
| 2.5°  | 968.7  | 743.3  | 601.9  | 611.4  |
| 5°    | 680.2  | 343.9  | 212.1  | 172.0  |
| 7.5°  | 407.0  | 105.1  | 21.0   | 17.2   |
| 10°   | 191.1  | 17.2   | 19.1   | 22.9   |
| 12.5° | 57.3   | 15.3   | 21.0   | 19.1   |
| 15°   | 15.3   | 17.2   | 9.6    | 5.7    |
| 17.5° | 5.7    | 7.6    | 0.0    | 0.0    |
| 20°   | 3.8    | 0.0    | 0.0    | 0.0    |
| 21°   | 3.8    | 0.0    | 0.0    | 0.0    |
| 22°   | 1.9    | 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°   | 1.9    | 0.0    | 0.0    | 0.0    |
| 67.5° | 1.9    | 0.0    | 0.0    | 0.0    |
| 70°   | 1.9    | 0.0    | 0.0    | 0.0    |
| 72.5° | 1.9    | 0.0    | 0.0    | 0.0    |
| 75°   | 1.9    | 0.0    | 0.0    | 0.0    |
| 77.5° | 1.9    | 0.0    | 0.0    | 0.0    |
| 80°   | 1.9    | 1.9    | 0.0    | 0.0    |

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CATALOG NUMBER: P3SQAS24R509030D010 E3SQCA301MB

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 1.9    | 1.9  | 0.0    | 0.0  |
| 85°   | 1.9    | 1.9  | 0.0    | 0.0  |
| 87.5° | 1.9    | 1.9  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)