

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: P1307240

Luminaire Tested: P3SQAS20R509027D010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307240  
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: P3SQAS20R509027D010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

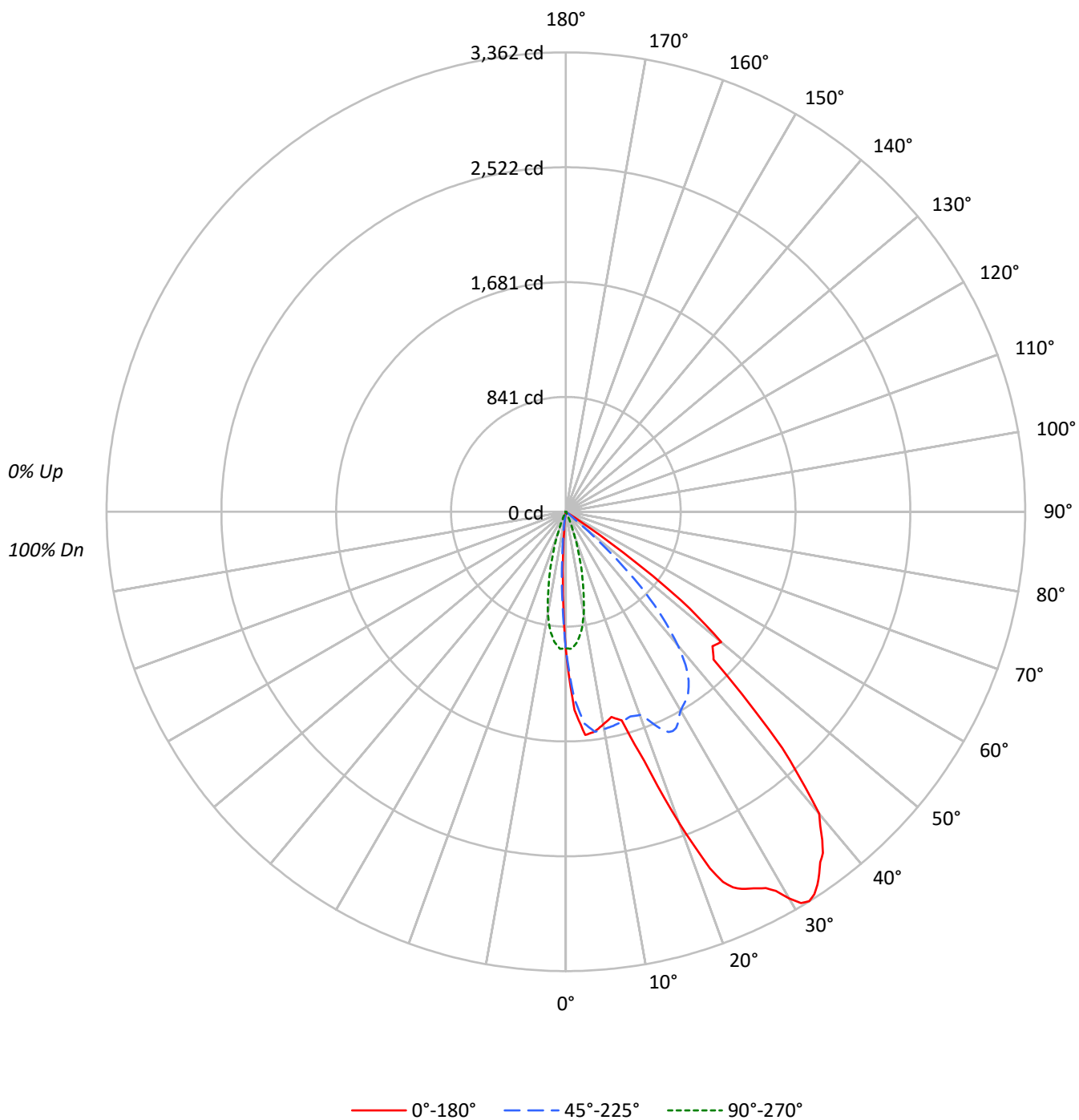
Lumens per Lamp: N/A  
Luminaire Lumens: 1609.0 lumens  
Efficiency: N/A  
Efficacy: 55.9 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 | 99  | 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°  | 172050 | 172050 | 172050 | 172050 | 172050 |
| 5°  | 283472 | 269019 | 165343 | 49115  | 24549  |
| 10° | 276275 | 282343 | 132471 | 2483   | 3305   |
| 15° | 281675 | 283351 | 79360  | 2532   | 838    |
| 20° | 443985 | 290107 | 32678  | 0      | 0      |
| 25° | 578802 | 337981 | 7791   | 0      | 0      |
| 30° | 649674 | 334253 | 318    | 0      | 0      |
| 35° | 679869 | 329160 | 0      | 0      | 0      |
| 40° | 648585 | 285972 | 0      | 0      | 0      |
| 45° | 372476 | 188734 | 0      | 0      | 0      |
| 50° | 397475 | 21568  | 0      | 0      | 0      |
| 55° | 113258 | 0      | 0      | 0      | 0      |
| 60° | 0      | 0      | 551    | 0      | 0      |
| 65° | 0      | 652    | 652    | 0      | 0      |
| 70° | 0      | 806    | 806    | 0      | 0      |
| 75° | 0      | 1065   | 1065   | 0      | 0      |
| 80° | 0      | 1587   | 3174   | 1587   | 0      |
| 85° | 0      | 3162   | 6323   | 3162   | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 411299 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 83.9   | 5.2       |
| 10°-20°   | 211.4  | 13.1      |
| 20°-30°   | 406.0  | 25.2      |
| 30°-40°   | 472.6  | 29.4      |
| 40°-50°   | 338.2  | 21.0      |
| 50°-60°   | 94.1   | 5.9       |
| 60°-70°   | 0.6    | 0.0       |
| 70°-80°   | 1.0    | 0.1       |
| 80°-90°   | 1.2    | 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°    | 701.3  | 43.6      |
| 0°-40°    | 1173.9 | 73.0      |
| 0°-60°    | 1606.2 | 99.8      |
| 0°-90°    | 1609.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1609.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 999  | 999  | 999 | 999  | 999  |      |
| 5°  | 1640 | 1556 | 956 | 284  | 142  | 150  |
| 15° | 1580 | 1589 | 445 | 14   | 5    | 510  |
| 25° | 3046 | 1779 | 41  | 0    | 0    | 1385 |
| 35° | 3234 | 1566 | 0   | 0    | 0    | 2001 |
| 45° | 1529 | 775  | 0   | 0    | 0    | 1438 |
| 55° | 377  | 0    | 0   | 0    | 0    | 475  |
| 65° | 0    | 2    | 2   | 0    | 0    | 0    |
| 75° | 0    | 2    | 2   | 0    | 0    | 0    |
| 85° | 0    | 2    | 3   | 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°    | 999.0  | 999.0  | 999.0  | 999.0  | 999.0  | 999.0  | 999.0  | 999.0  | 999.0  | 999.0  | 999.0  |
| 2.5°  | 1451.9 | 1459.8 | 1461.4 | 1442.5 | 1445.6 | 1418.8 | 1420.4 | 1401.4 | 1355.7 | 1196.3 | 1003.7 |
| 5°    | 1639.7 | 1635.0 | 1639.7 | 1633.4 | 1639.7 | 1624.0 | 1614.5 | 1606.6 | 1556.1 | 1330.4 | 956.4  |
| 7.5°  | 1622.4 | 1616.1 | 1625.5 | 1628.7 | 1639.7 | 1635.0 | 1636.6 | 1641.3 | 1624.0 | 1403.0 | 875.9  |
| 10°   | 1579.8 | 1578.2 | 1582.9 | 1582.9 | 1595.6 | 1597.1 | 1603.4 | 1612.9 | 1614.5 | 1428.3 | 757.5  |
| 12.5° | 1538.7 | 1534.0 | 1534.0 | 1532.4 | 1538.7 | 1537.2 | 1552.9 | 1575.0 | 1605.0 | 1412.5 | 595.0  |
| 15°   | 1579.8 | 1575.0 | 1568.7 | 1551.4 | 1538.7 | 1524.5 | 1526.1 | 1540.3 | 1589.2 | 1371.5 | 445.1  |
| 17.5° | 1911.2 | 1885.9 | 1854.4 | 1799.1 | 1740.8 | 1639.7 | 1579.8 | 1541.9 | 1570.3 | 1308.3 | 296.7  |
| 20°   | 2422.5 | 2411.5 | 2361.0 | 2271.0 | 2176.3 | 2028.0 | 1843.3 | 1695.0 | 1582.9 | 1229.4 | 178.3  |
| 21°   | 2616.7 | 2610.3 | 2556.7 | 2473.0 | 2365.7 | 2185.8 | 1996.4 | 1818.1 | 1608.2 | 1196.3 | 140.5  |
| 22°   | 2815.5 | 2791.8 | 2749.2 | 2656.1 | 2544.1 | 2364.1 | 2152.7 | 1955.4 | 1658.7 | 1153.7 | 107.3  |
| 23°   | 2943.3 | 2929.1 | 2883.4 | 2809.2 | 2701.9 | 2526.7 | 2310.5 | 2095.8 | 1707.6 | 1106.3 | 80.5   |
| 24°   | 3009.6 | 3004.9 | 2968.6 | 2916.5 | 2825.0 | 2646.6 | 2441.5 | 2220.5 | 1748.6 | 1051.1 | 58.4   |
| 25°   | 3045.9 | 3030.1 | 3008.0 | 2970.2 | 2900.7 | 2746.1 | 2563.0 | 2329.4 | 1778.6 | 995.8  | 41.0   |
| 26°   | 3068.0 | 3058.5 | 3023.8 | 2990.7 | 2924.4 | 2798.1 | 2641.9 | 2395.7 | 1786.5 | 928.0  | 28.4   |
| 27°   | 3093.3 | 3071.2 | 3038.0 | 2998.6 | 2924.4 | 2813.9 | 2671.9 | 2424.1 | 1777.1 | 858.5  | 18.9   |
| 28°   | 3120.1 | 3104.3 | 3058.5 | 3008.0 | 2919.7 | 2813.9 | 2660.8 | 2386.2 | 1748.6 | 792.3  | 11.0   |
| 29°   | 3172.2 | 3151.7 | 3094.8 | 3020.7 | 2921.2 | 2810.8 | 2618.2 | 2307.3 | 1710.8 | 718.1  | 6.3    |
| 30°   | 3266.9 | 3224.3 | 3154.8 | 3050.7 | 2932.3 | 2804.5 | 2547.2 | 2189.0 | 1680.8 | 634.4  | 1.6    |
| 31°   | 3341.0 | 3317.4 | 3236.9 | 3105.9 | 2963.9 | 2787.1 | 2463.6 | 2072.2 | 1660.3 | 561.8  | 0.0    |
| 32°   | 3361.6 | 3344.2 | 3285.8 | 3162.7 | 3017.5 | 2772.9 | 2368.9 | 1958.5 | 1644.5 | 481.4  | 0.0    |
| 33°   | 3337.9 | 3326.8 | 3265.3 | 3153.2 | 3031.7 | 2754.0 | 2260.0 | 1846.5 | 1627.1 | 408.8  | 0.0    |
| 34°   | 3293.7 | 3279.5 | 3225.8 | 3112.2 | 2995.4 | 2671.9 | 2155.8 | 1761.3 | 1601.9 | 340.9  | 0.0    |
| 35°   | 3233.7 | 3222.7 | 3167.4 | 3055.4 | 2929.1 | 2544.1 | 2051.7 | 1704.5 | 1565.6 | 273.0  | 0.0    |
| 36°   | 3169.0 | 3165.9 | 3094.8 | 2984.4 | 2843.9 | 2421.0 | 1925.4 | 1661.8 | 1529.3 | 216.2  | 0.0    |
| 37°   | 3126.4 | 3110.6 | 3033.3 | 2924.4 | 2742.9 | 2277.3 | 1824.4 | 1647.6 | 1478.8 | 167.3  | 0.0    |
| 38°   | 3049.1 | 3052.2 | 2963.9 | 2864.4 | 2640.3 | 2152.7 | 1742.3 | 1636.6 | 1422.0 | 121.5  | 0.0    |
| 39°   | 2957.5 | 2959.1 | 2867.6 | 2782.4 | 2518.8 | 2021.7 | 1674.5 | 1625.5 | 1350.9 | 77.3   | 0.0    |
| 40°   | 2884.9 | 2883.4 | 2779.2 | 2687.7 | 2387.8 | 1898.6 | 1638.2 | 1609.8 | 1272.0 | 44.2   | 0.0    |
| 42.5° | 2345.2 | 2354.7 | 2367.3 | 2405.2 | 2080.1 | 1682.4 | 1603.4 | 1521.4 | 1047.9 | 0.0    | 0.0    |
| 45°   | 1529.3 | 1565.6 | 1575.0 | 1688.7 | 1687.1 | 1594.0 | 1521.4 | 1363.6 | 774.9  | 0.0    | 0.0    |
| 47.5° | 1455.1 | 1466.1 | 1486.7 | 1530.9 | 1554.5 | 1508.8 | 1360.4 | 1139.5 | 423.0  | 0.0    | 0.0    |
| 50°   | 1483.5 | 1481.9 | 1486.7 | 1486.7 | 1444.1 | 1325.7 | 1115.8 | 841.2  | 80.5   | 0.0    | 0.0    |
| 52.5° | 1065.3 | 1104.7 | 1147.3 | 1166.3 | 1111.1 | 986.4  | 814.4  | 494.0  | 0.0    | 0.0    | 0.0    |
| 55°   | 377.2  | 364.6  | 355.1  | 388.2  | 380.3  | 427.7  | 353.5  | 115.2  | 0.0    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 1.6    | 6.3    | 14.2   | 18.9   | 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    | 1.6    | 1.6    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    | 3.2    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 1.6    | 1.6    | 3.2    |



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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 | 1.6 | 1.6 | 1.6   | 3.2 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 1.6 | 1.6   | 3.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 1.6   | 3.2 |
| 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°    | 999.0  | 999.0 | 999.0  | 999.0 |
| 2.5°  | 800.1  | 613.9 | 497.1  | 505.0 |
| 5°    | 561.8  | 284.1 | 175.2  | 142.0 |
| 7.5°  | 336.2  | 86.8  | 17.4   | 14.2  |
| 10°   | 157.8  | 14.2  | 15.8   | 18.9  |
| 12.5° | 47.3   | 12.6  | 17.4   | 15.8  |
| 15°   | 12.6   | 14.2  | 7.9    | 4.7   |
| 17.5° | 4.7    | 6.3   | 0.0    | 0.0   |
| 20°   | 3.2    | 0.0   | 0.0    | 0.0   |
| 21°   | 3.2    | 0.0   | 0.0    | 0.0   |
| 22°   | 1.6    | 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°   | 1.6    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.6    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.6    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.6    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.6    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.6    | 0.0   | 0.0    | 0.0   |
| 80°   | 1.6    | 1.6   | 0.0    | 0.0   |



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CATALOG NUMBER: P3SQAS20R509027D010 E3SQCA301MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 1.6    | 1.6  | 0.0    | 0.0  |
| 85°   | 1.6    | 1.6  | 0.0    | 0.0  |
| 87.5° | 1.6    | 1.6  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)