

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: P1311817

Luminaire Tested: P3SQAS24R509050D010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311817  
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: P3SQAS24R509050D010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

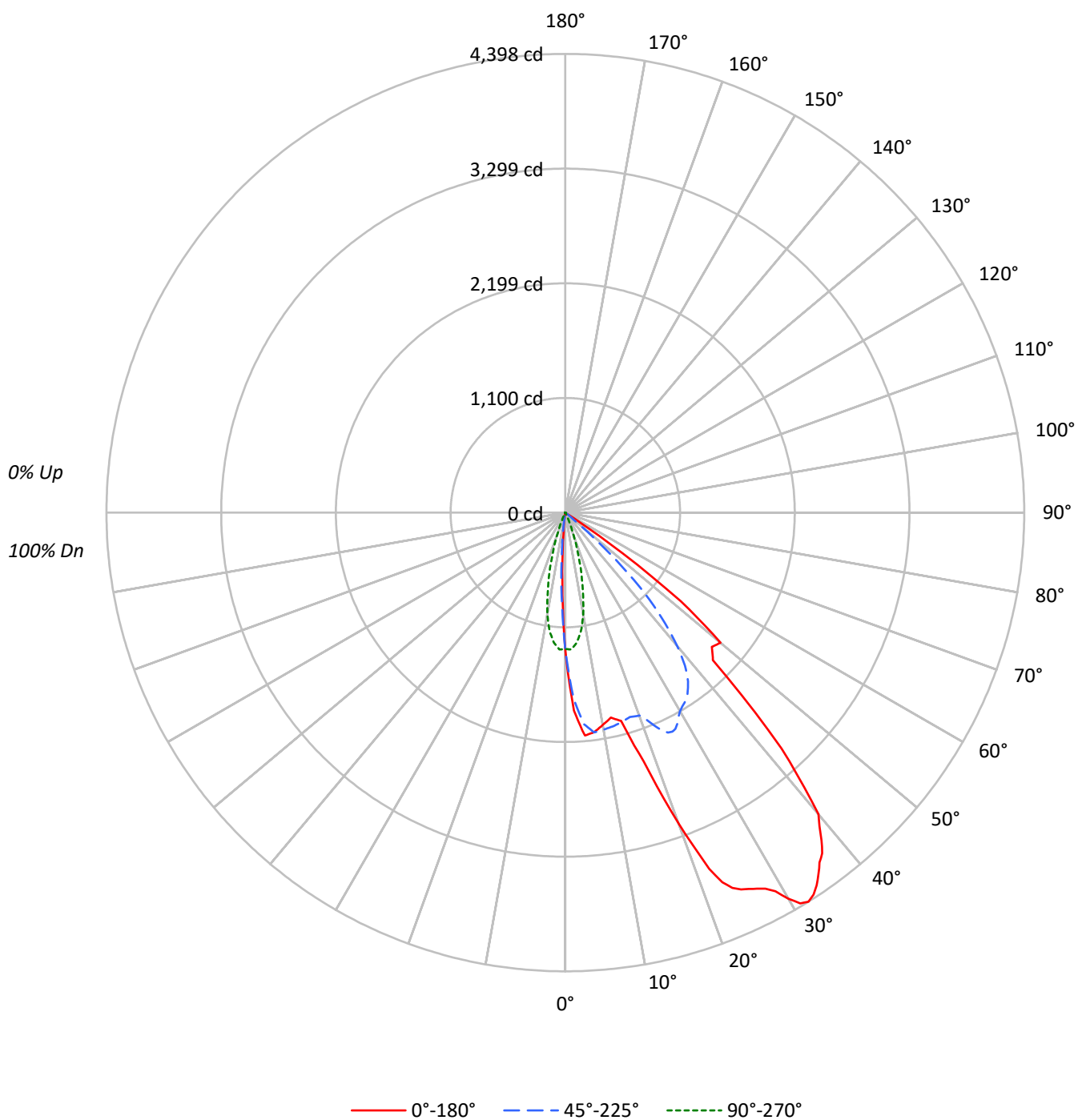
Lumens per Lamp: N/A  
Luminaire Lumens: 2105.0 lumens  
Efficiency: N/A  
Efficacy: 73.1 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1311817

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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°  | 225095 | 225095 | 225095 | 225095 | 225095 |
| 5°  | 370863 | 351950 | 216308 | 64242  | 32121  |
| 10° | 361441 | 369380 | 173323 | 3253   | 4337   |
| 15° | 368506 | 370717 | 103805 | 3316   | 1105   |
| 20° | 580855 | 379545 | 42758  | 0      | 0      |
| 25° | 757237 | 442173 | 10204  | 0      | 0      |
| 30° | 849932 | 437286 | 418    | 0      | 0      |
| 35° | 889463 | 430624 | 0      | 0      | 0      |
| 40° | 848541 | 374147 | 0      | 0      | 0      |
| 45° | 487290 | 246921 | 0      | 0      | 0      |
| 50° | 520000 | 28213  | 0      | 0      | 0      |
| 55° | 148179 | 0      | 0      | 0      | 0      |
| 60° | 0      | 0      | 723    | 0      | 0      |
| 65° | 0      | 856    | 856    | 0      | 0      |
| 70° | 0      | 1057   | 1057   | 0      | 0      |
| 75° | 0      | 1397   | 1397   | 0      | 0      |
| 80° | 0      | 2083   | 4066   | 2083   | 0      |
| 85° | 0      | 4150   | 8102   | 4150   | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 538072 cd/sqm

TEST NUMBER: P1311817

CATALOG NUMBER: P3SQAS24R509050D010 E3SQCA301MMS

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 109.8  | 5.2       |
| 10°-20°   | 276.5  | 13.1      |
| 20°-30°   | 531.2  | 25.2      |
| 30°-40°   | 618.3  | 29.4      |
| 40°-50°   | 442.5  | 21.0      |
| 50°-60°   | 123.2  | 5.9       |
| 60°-70°   | 0.8    | 0.0       |
| 70°-80°   | 1.3    | 0.1       |
| 80°-90°   | 1.5    | 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°    | 917.5  | 43.6      |
| 0°-40°    | 1535.8 | 73.0      |
| 0°-60°    | 2101.4 | 99.8      |
| 0°-90°    | 2105.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2105.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1307 | 1307 | 1307 | 1307 | 1307 |      |
| 5°  | 2145 | 2036 | 1251 | 372  | 186  | 197  |
| 15° | 2067 | 2079 | 582  | 19   | 6    | 667  |
| 25° | 3985 | 2327 | 54   | 0    | 0    | 1813 |
| 35° | 4231 | 2048 | 0    | 0    | 0    | 2618 |
| 45° | 2001 | 1014 | 0    | 0    | 0    | 1882 |
| 55° | 494  | 0    | 0    | 0    | 0    | 621  |
| 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    |      |

TEST NUMBER: P1311817

CATALOG NUMBER: P3SQAS24R509050D010 E3SQCA301MMS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1307.0 | 1307.0 | 1307.0 | 1307.0 | 1307.0 | 1307.0 | 1307.0 | 1307.0 | 1307.0 | 1307.0 | 1307.0 |
| 2.5°  | 1899.5 | 1909.8 | 1911.9 | 1887.1 | 1891.3 | 1856.2 | 1858.2 | 1833.5 | 1773.6 | 1565.0 | 1313.2 |
| 5°    | 2145.2 | 2139.0 | 2145.2 | 2137.0 | 2145.2 | 2124.6 | 2112.2 | 2101.9 | 2035.8 | 1740.5 | 1251.2 |
| 7.5°  | 2122.5 | 2114.3 | 2126.6 | 2130.8 | 2145.2 | 2139.0 | 2141.1 | 2147.3 | 2124.6 | 1835.5 | 1145.9 |
| 10°   | 2066.8 | 2064.7 | 2070.9 | 2070.9 | 2087.4 | 2089.5 | 2097.7 | 2110.1 | 2112.2 | 1868.6 | 991.1  |
| 12.5° | 2013.1 | 2006.9 | 2006.9 | 2004.8 | 2013.1 | 2011.0 | 2031.7 | 2060.6 | 2099.8 | 1847.9 | 778.4  |
| 15°   | 2066.8 | 2060.6 | 2052.3 | 2029.6 | 2013.1 | 1994.5 | 1996.6 | 2015.1 | 2079.2 | 1794.2 | 582.2  |
| 17.5° | 2500.4 | 2467.3 | 2426.0 | 2353.8 | 2277.4 | 2145.2 | 2066.8 | 2017.2 | 2054.4 | 1711.6 | 388.2  |
| 20°   | 3169.3 | 3154.9 | 3088.8 | 2971.1 | 2847.2 | 2653.1 | 2411.6 | 2217.5 | 2070.9 | 1608.4 | 233.3  |
| 21°   | 3423.3 | 3415.0 | 3344.8 | 3235.4 | 3095.0 | 2859.6 | 2611.8 | 2378.5 | 2103.9 | 1565.0 | 183.8  |
| 22°   | 3683.4 | 3652.5 | 3596.7 | 3474.9 | 3328.3 | 3092.9 | 2816.3 | 2558.2 | 2170.0 | 1509.3 | 140.4  |
| 23°   | 3850.7 | 3832.1 | 3772.2 | 3675.2 | 3534.8 | 3305.6 | 3022.7 | 2741.9 | 2234.0 | 1447.4 | 105.3  |
| 24°   | 3937.4 | 3931.2 | 3883.7 | 3815.6 | 3695.8 | 3462.5 | 3194.1 | 2905.0 | 2287.7 | 1375.1 | 76.4   |
| 25°   | 3984.9 | 3964.2 | 3935.3 | 3885.8 | 3794.9 | 3592.6 | 3353.1 | 3047.5 | 2326.9 | 1302.8 | 53.7   |
| 26°   | 4013.8 | 4001.4 | 3956.0 | 3912.6 | 3825.9 | 3660.7 | 3456.3 | 3134.2 | 2337.2 | 1214.0 | 37.2   |
| 27°   | 4046.8 | 4017.9 | 3974.6 | 3922.9 | 3825.9 | 3681.4 | 3495.5 | 3171.4 | 2324.9 | 1123.2 | 24.8   |
| 28°   | 4081.9 | 4061.3 | 4001.4 | 3935.3 | 3819.7 | 3681.4 | 3481.1 | 3121.8 | 2287.7 | 1036.5 | 14.5   |
| 29°   | 4150.1 | 4123.2 | 4048.9 | 3951.8 | 3821.8 | 3677.2 | 3425.3 | 3018.6 | 2238.1 | 939.4  | 8.3    |
| 30°   | 4273.9 | 4218.2 | 4127.3 | 3991.1 | 3836.2 | 3669.0 | 3332.4 | 2863.7 | 2198.9 | 830.0  | 2.1    |
| 31°   | 4371.0 | 4340.0 | 4234.7 | 4063.3 | 3877.5 | 3646.3 | 3223.0 | 2711.0 | 2172.1 | 735.0  | 0.0    |
| 32°   | 4397.8 | 4375.1 | 4298.7 | 4137.7 | 3947.7 | 3627.7 | 3099.1 | 2562.3 | 2151.4 | 629.7  | 0.0    |
| 33°   | 4366.8 | 4352.4 | 4271.9 | 4125.3 | 3966.3 | 3602.9 | 2956.7 | 2415.7 | 2128.7 | 534.8  | 0.0    |
| 34°   | 4309.0 | 4290.5 | 4220.3 | 4071.6 | 3918.8 | 3495.5 | 2820.4 | 2304.2 | 2095.7 | 446.0  | 0.0    |
| 35°   | 4230.6 | 4216.1 | 4143.9 | 3997.3 | 3832.1 | 3328.3 | 2684.1 | 2229.9 | 2048.2 | 357.2  | 0.0    |
| 36°   | 4145.9 | 4141.8 | 4048.9 | 3904.4 | 3720.6 | 3167.3 | 2518.9 | 2174.1 | 2000.7 | 282.9  | 0.0    |
| 37°   | 4090.2 | 4069.5 | 3968.4 | 3825.9 | 3588.5 | 2979.4 | 2386.8 | 2155.5 | 1934.6 | 218.9  | 0.0    |
| 38°   | 3989.0 | 3993.1 | 3877.5 | 3747.4 | 3454.2 | 2816.3 | 2279.4 | 2141.1 | 1860.3 | 159.0  | 0.0    |
| 39°   | 3869.3 | 3871.3 | 3751.6 | 3640.1 | 3295.3 | 2644.9 | 2190.6 | 2126.6 | 1767.4 | 101.2  | 0.0    |
| 40°   | 3774.3 | 3772.2 | 3635.9 | 3516.2 | 3123.9 | 2483.8 | 2143.2 | 2106.0 | 1664.2 | 57.8   | 0.0    |
| 42.5° | 3068.1 | 3080.5 | 3097.1 | 3146.6 | 2721.3 | 2201.0 | 2097.7 | 1990.4 | 1371.0 | 0.0    | 0.0    |
| 45°   | 2000.7 | 2048.2 | 2060.6 | 2209.2 | 2207.2 | 2085.3 | 1990.4 | 1783.9 | 1013.8 | 0.0    | 0.0    |
| 47.5° | 1903.7 | 1918.1 | 1944.9 | 2002.8 | 2033.7 | 1973.9 | 1779.8 | 1490.7 | 553.3  | 0.0    | 0.0    |
| 50°   | 1940.8 | 1938.8 | 1944.9 | 1944.9 | 1889.2 | 1734.4 | 1459.7 | 1100.5 | 105.3  | 0.0    | 0.0    |
| 52.5° | 1393.7 | 1445.3 | 1501.0 | 1525.8 | 1453.6 | 1290.4 | 1065.4 | 646.3  | 0.0    | 0.0    | 0.0    |
| 55°   | 493.5  | 476.9  | 464.6  | 507.9  | 497.6  | 559.5  | 462.5  | 150.7  | 0.0    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 2.1    | 8.3    | 18.6   | 24.8   | 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    | 2.1    | 2.1    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 2.1    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 2.1    | 2.1    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 2.1    | 2.1    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 2.1    | 2.1    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 2.1    | 2.1    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 2.1    | 2.1    | 4.1    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.1    | 2.1    | 2.1    | 2.1    | 4.1    |



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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 | 2.1 | 2.1 | 2.1   | 4.1 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 2.1 | 2.1   | 4.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 2.1   | 4.1 |
| 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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CATALOG NUMBER: P3SQAS24R509050D010 E3SQCA301MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°   | 157.5° | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 1307.0 | 1307.0 | 1307.0 | 1307.0 |
| 2.5°  | 1046.8 | 803.2  | 650.4  | 660.7  |
| 5°    | 735.0  | 371.6  | 229.2  | 185.8  |
| 7.5°  | 439.8  | 113.6  | 22.7   | 18.6   |
| 10°   | 206.5  | 18.6   | 20.6   | 24.8   |
| 12.5° | 61.9   | 16.5   | 22.7   | 20.6   |
| 15°   | 16.5   | 18.6   | 10.3   | 6.2    |
| 17.5° | 6.2    | 8.3    | 0.0    | 0.0    |
| 20°   | 4.1    | 0.0    | 0.0    | 0.0    |
| 21°   | 4.1    | 0.0    | 0.0    | 0.0    |
| 22°   | 2.1    | 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°   | 2.1    | 0.0    | 0.0    | 0.0    |
| 67.5° | 2.1    | 0.0    | 0.0    | 0.0    |
| 70°   | 2.1    | 0.0    | 0.0    | 0.0    |
| 72.5° | 2.1    | 0.0    | 0.0    | 0.0    |
| 75°   | 2.1    | 0.0    | 0.0    | 0.0    |
| 77.5° | 2.1    | 0.0    | 0.0    | 0.0    |
| 80°   | 2.1    | 2.1    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 2.1    | 2.1  | 0.0    | 0.0  |
| 85°   | 2.1    | 2.1  | 0.0    | 0.0  |
| 87.5° | 2.1    | 2.1  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)