

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: P1305714

Luminaire Tested: P3SQAS09R209024DE010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1305714  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS09R209024DE010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 2400K CCT AND, 90CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

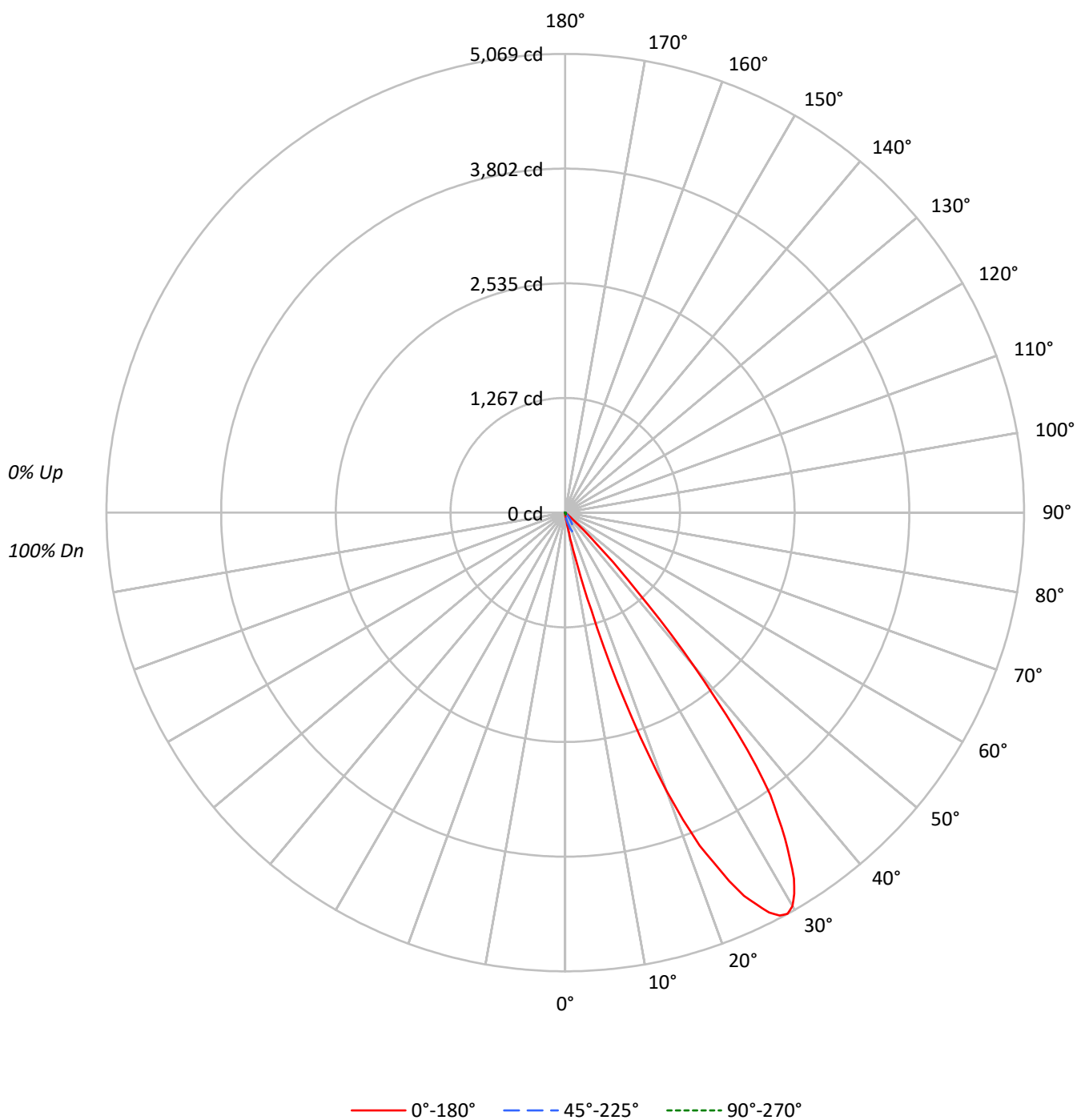
Lumens per Lamp: N/A  
Luminaire Lumens: 710.9 lumens  
Efficiency: N/A  
Efficacy: 64.0 lumens/watt  
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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: P1305714

CATALOG NUMBER: P3SQAS09R209024DE010 E3SQCA301MW

### 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 |
| 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   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 92  |    |    |
| 2   | 106 | 100 | 96  | 92  | 104 | 99  | 94  | 91  | 95  | 92  | 89  | 92  | 89  | 87  | 89  | 87  | 85  | 83  |    |    |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 75  |    |    |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 76  | 71  | 79  | 74  | 71  | 77  | 73  | 70  | 68  |    |    |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 72  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 62  | 58  | 65  | 61  | 57  | 55  |    |    |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 62  | 56  | 52  | 60  | 55  | 52  | 50  |    |    |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |    |    |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 43  | 41  |    |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 42  | 39  | 37  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 4219   | 4219  | 4219 | 4219 | 4219 |
| 5°  | 9699   | 7244  | 4011 | 2455 | 2126 |
| 10° | 30569  | 12626 | 3270 | 1347 | 1014 |
| 15° | 198053 | 23339 | 2407 | 464  | 107  |
| 20° | 597735 | 39954 | 1649 | 0    | 0    |
| 25° | 887691 | 40324 | 988  | 0    | 0    |
| 30° | 998246 | 30665 | 378  | 0    | 0    |
| 35° | 861311 | 18312 | 273  | 0    | 0    |
| 40° | 495977 | 6228  | 0    | 0    | 0    |
| 45° | 120976 | 2509  | 146  | 0    | 146  |
| 50° | 14522  | 697   | 161  | 161  | 509  |
| 55° | 1952   | 0     | 390  | 390  | 781  |
| 60° | 207    | 0     | 654  | 654  | 1102 |
| 65° | 245    | 245   | 1060 | 1060 | 1589 |
| 70° | 302    | 302   | 1309 | 1309 | 1611 |
| 75° | 0      | 399   | 1730 | 1264 | 1730 |
| 80° | 0      | 595   | 1884 | 1289 | 1884 |
| 85° | 0      | 1186  | 3754 | 1186 | 1186 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 121755 cd/sqm

TEST NUMBER: P1305714

CATALOG NUMBER: P3SQAS09R209024DE010 E3SQCA301MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.3    | 0.5       |
| 10°-20°   | 65.9   | 9.3       |
| 20°-30°   | 287.2  | 40.4      |
| 30°-40°   | 289.2  | 40.7      |
| 40°-50°   | 58.0   | 8.2       |
| 50°-60°   | 2.9    | 0.4       |
| 60°-70°   | 1.9    | 0.3       |
| 70°-80°   | 1.7    | 0.2       |
| 80°-90°   | 0.8    | 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°    | 356.4  | 50.1      |
| 0°-40°    | 645.6  | 90.8      |
| 0°-60°    | 706.5  | 99.4      |
| 0°-90°    | 710.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 710.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 24   | 24  | 24  | 24   | 24   |      |
| 5°  | 56   | 42  | 23  | 14   | 12   | 9    |
| 15° | 1111 | 131 | 14  | 3    | 1    | 435  |
| 25° | 4671 | 212 | 5   | 0    | 0    | 2106 |
| 35° | 4097 | 87  | 1   | 0    | 0    | 2438 |
| 45° | 497  | 10  | 1   | 0    | 1    | 541  |
| 55° | 6    | 0   | 1   | 1    | 3    | 12   |
| 65° | 1    | 1   | 3   | 3    | 4    | 1    |
| 75° | 0    | 1   | 3   | 2    | 3    | 0    |
| 85° | 0    | 1   | 2   | 1    | 1    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1305714

CATALOG NUMBER: P3SQAS09R209024DE010 E3SQCA301MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 22.5°  | 45°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 24.5   | 24.5   | 24.5   | 24.5   | 24.5   | 24.5   | 24.5   | 24.5   | 24.5   | 24.5   | 24.5  |
| 2.5°  | 36.8   | 36.8   | 36.1   | 36.1   | 35.5   | 36.1   | 34.8   | 35.5   | 35.5   | 34.8   | 31.6  |
| 5°    | 56.1   | 57.4   | 56.8   | 56.8   | 56.1   | 56.8   | 55.5   | 54.2   | 52.9   | 52.9   | 41.9  |
| 7.5°  | 92.2   | 91.6   | 90.3   | 91.0   | 89.0   | 87.7   | 86.4   | 85.8   | 81.9   | 80.0   | 54.8  |
| 10°   | 174.8  | 178.7  | 175.5  | 174.8  | 163.2  | 162.6  | 154.8  | 143.8  | 134.2  | 129.0  | 72.2  |
| 12.5° | 481.2  | 501.8  | 469.6  | 454.1  | 445.1  | 410.2  | 395.4  | 357.4  | 320.6  | 292.9  | 91.6  |
| 15°   | 1110.8 | 1161.7 | 1096.6 | 1101.1 | 1046.9 | 947.6  | 860.5  | 785.7  | 697.3  | 608.3  | 130.9 |
| 17.5° | 2176.4 | 2135.1 | 2099.6 | 2039.6 | 1929.3 | 1783.6 | 1595.8 | 1405.6 | 1241.1 | 1068.8 | 182.5 |
| 20°   | 3261.4 | 3224.6 | 3144.0 | 3013.0 | 2872.4 | 2656.3 | 2433.1 | 2147.4 | 1870.6 | 1611.3 | 218.0 |
| 21°   | 3634.8 | 3622.6 | 3490.3 | 3409.7 | 3193.0 | 2986.6 | 2729.2 | 2423.4 | 2111.9 | 1804.8 | 223.8 |
| 22°   | 3968.3 | 3894.8 | 3823.8 | 3704.5 | 3489.1 | 3264.6 | 2978.2 | 2656.3 | 2318.3 | 1977.1 | 224.5 |
| 23°   | 4199.2 | 4165.7 | 4098.6 | 3963.8 | 3749.6 | 3485.8 | 3183.9 | 2847.2 | 2491.2 | 2099.0 | 222.5 |
| 24°   | 4454.7 | 4412.1 | 4314.1 | 4156.7 | 3940.6 | 3680.0 | 3335.5 | 3001.4 | 2614.4 | 2201.5 | 217.4 |
| 25°   | 4671.4 | 4605.0 | 4488.9 | 4319.2 | 4083.1 | 3814.2 | 3467.8 | 3100.7 | 2700.2 | 2270.6 | 212.2 |
| 26°   | 4812.0 | 4775.9 | 4626.9 | 4442.4 | 4189.6 | 3912.2 | 3558.7 | 3176.8 | 2755.6 | 2302.2 | 203.8 |
| 27°   | 4958.5 | 4892.0 | 4745.6 | 4533.4 | 4259.2 | 3976.1 | 3610.3 | 3213.6 | 2775.0 | 2303.5 | 193.5 |
| 28°   | 5042.3 | 4970.1 | 4804.3 | 4581.1 | 4304.4 | 4011.5 | 3640.0 | 3225.2 | 2771.1 | 2283.5 | 181.3 |
| 29°   | 5068.8 | 4977.8 | 4815.9 | 4588.9 | 4315.4 | 4014.1 | 3635.5 | 3208.5 | 2736.9 | 2234.4 | 167.1 |
| 30°   | 5019.7 | 4926.9 | 4773.3 | 4552.1 | 4280.5 | 3981.9 | 3593.5 | 3153.0 | 2676.3 | 2164.1 | 154.2 |
| 31°   | 4912.7 | 4834.0 | 4685.6 | 4463.7 | 4203.1 | 3906.4 | 3498.7 | 3062.0 | 2573.1 | 2070.0 | 139.3 |
| 32°   | 4771.4 | 4694.0 | 4548.2 | 4347.6 | 4082.5 | 3783.2 | 3369.1 | 2920.1 | 2451.8 | 1929.3 | 124.5 |
| 33°   | 4559.2 | 4514.7 | 4383.7 | 4192.2 | 3927.0 | 3607.1 | 3194.9 | 2750.5 | 2278.9 | 1773.2 | 111.6 |
| 34°   | 4344.4 | 4288.3 | 4196.7 | 3987.0 | 3701.9 | 3382.6 | 2967.9 | 2516.3 | 2068.0 | 1598.4 | 99.3  |
| 35°   | 4096.7 | 4063.1 | 3919.3 | 3751.6 | 3465.2 | 3138.8 | 2726.6 | 2288.6 | 1822.3 | 1403.6 | 87.1  |
| 36°   | 3856.7 | 3805.1 | 3641.3 | 3463.9 | 3185.9 | 2833.0 | 2426.0 | 2014.5 | 1610.0 | 1221.1 | 74.2  |
| 37°   | 3508.4 | 3429.7 | 3313.0 | 3125.9 | 2800.8 | 2500.2 | 2128.7 | 1746.8 | 1348.8 | 1023.7 | 60.0  |
| 38°   | 3098.8 | 3062.0 | 2900.1 | 2711.8 | 2442.8 | 2157.7 | 1790.0 | 1466.2 | 1112.7 | 854.7  | 45.8  |
| 39°   | 2615.7 | 2615.0 | 2460.2 | 2324.1 | 2060.9 | 1804.2 | 1472.6 | 1190.1 | 918.5  | 688.3  | 35.5  |
| 40°   | 2206.1 | 2129.9 | 2034.5 | 1863.5 | 1661.6 | 1443.6 | 1153.3 | 931.4  | 712.8  | 554.7  | 27.7  |
| 42.5° | 1156.6 | 1150.1 | 1094.0 | 965.6  | 852.8  | 724.4  | 576.0  | 479.9  | 375.4  | 305.8  | 17.4  |
| 45°   | 496.7  | 499.9  | 461.2  | 441.9  | 398.0  | 344.5  | 290.9  | 242.5  | 207.7  | 168.4  | 10.3  |
| 47.5° | 125.8  | 120.6  | 119.3  | 123.8  | 123.8  | 120.0  | 107.7  | 101.3  | 93.5   | 85.8   | 5.8   |
| 50°   | 54.2   | 52.9   | 51.6   | 51.6   | 48.4   | 46.4   | 43.2   | 39.3   | 36.1   | 32.3   | 2.6   |
| 52.5° | 20.0   | 20.6   | 21.3   | 20.6   | 20.6   | 20.0   | 20.0   | 19.4   | 17.4   | 15.5   | 1.3   |
| 55°   | 6.5    | 6.5    | 6.5    | 7.1    | 7.1    | 7.7    | 7.7    | 7.7    | 7.7    | 7.1    | 0.0   |
| 57.5° | 1.3    | 1.3    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 2.6    | 2.6    | 0.0   |
| 60°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.0    | 0.0    | 0.0    | 0.0   |
| 62.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6   |
| 65°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6   |
| 67.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6   |
| 70°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6   |
| 72.5° | 0.6    | 0.0    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.6    | 0.0    | 0.6    | 0.6    | 0.0    | 0.6    | 0.6    | 0.6   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 0.6   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6   |



TEST NUMBER: P1305714

CATALOG NUMBER: P3SQAS09R209024DE010 E3SQCA301MW

**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 82.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.6 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.6 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.6 |
| 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: P3SQAS09R209024DE010 E3SQCA301MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 24.5  | 24.5 | 24.5   | 24.5 | 24.5   | 24.5 |
| 2.5°  | 28.4  | 25.2 | 21.3   | 18.1 | 17.4   | 16.8 |
| 5°    | 31.6  | 23.2 | 17.4   | 14.2 | 12.9   | 12.3 |
| 7.5°  | 34.2  | 21.3 | 14.2   | 10.3 | 9.0    | 8.4  |
| 10°   | 35.5  | 18.7 | 11.6   | 7.7  | 5.8    | 5.8  |
| 12.5° | 36.1  | 16.1 | 8.4    | 5.2  | 3.2    | 3.2  |
| 15°   | 35.5  | 13.5 | 6.5    | 2.6  | 0.6    | 0.6  |
| 17.5° | 32.3  | 11.0 | 3.9    | 0.6  | 0.0    | 0.0  |
| 20°   | 27.7  | 9.0  | 2.6    | 0.0  | 0.0    | 0.0  |
| 21°   | 26.4  | 7.7  | 1.9    | 0.0  | 0.0    | 0.0  |
| 22°   | 24.5  | 7.1  | 1.3    | 0.0  | 0.0    | 0.0  |
| 23°   | 22.6  | 6.5  | 1.3    | 0.0  | 0.0    | 0.0  |
| 24°   | 20.6  | 5.8  | 0.6    | 0.0  | 0.0    | 0.0  |
| 25°   | 19.4  | 5.2  | 0.6    | 0.0  | 0.0    | 0.0  |
| 26°   | 18.1  | 4.5  | 0.6    | 0.0  | 0.0    | 0.0  |
| 27°   | 16.1  | 3.9  | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 14.8  | 3.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 12.9  | 2.6  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 11.0  | 1.9  | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 9.0   | 1.9  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 7.7   | 1.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 6.5   | 1.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 5.8   | 1.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 5.2   | 1.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 3.9   | 0.6  | 0.0    | 0.0  | 0.0    | 0.0  |
| 37°   | 3.2   | 0.6  | 0.0    | 0.0  | 0.0    | 0.0  |
| 38°   | 2.6   | 0.6  | 0.0    | 0.0  | 0.0    | 0.0  |
| 39°   | 1.9   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 1.9   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 42.5° | 0.6   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 45°   | 0.0   | 0.6  | 0.0    | 0.0  | 0.6    | 0.6  |
| 47.5° | 0.0   | 0.6  | 0.0    | 0.0  | 0.6    | 1.3  |
| 50°   | 0.0   | 0.6  | 0.6    | 0.6  | 1.3    | 1.9  |
| 52.5° | 0.0   | 1.3  | 0.6    | 0.6  | 1.9    | 1.9  |
| 55°   | 0.6   | 1.3  | 0.6    | 1.3  | 2.6    | 2.6  |
| 57.5° | 0.6   | 1.3  | 1.3    | 1.9  | 2.6    | 3.2  |
| 60°   | 1.3   | 1.9  | 1.9    | 1.9  | 3.2    | 3.2  |
| 62.5° | 1.3   | 1.9  | 2.6    | 2.6  | 3.2    | 3.9  |
| 65°   | 1.3   | 2.6  | 2.6    | 2.6  | 3.2    | 3.9  |
| 67.5° | 1.9   | 2.6  | 2.6    | 2.6  | 3.2    | 3.9  |
| 70°   | 1.9   | 2.6  | 2.6    | 2.6  | 3.2    | 3.2  |
| 72.5° | 1.9   | 2.6  | 1.9    | 2.6  | 2.6    | 3.2  |
| 75°   | 1.9   | 2.6  | 1.9    | 1.9  | 2.6    | 2.6  |
| 77.5° | 1.3   | 1.9  | 1.9    | 1.3  | 1.9    | 1.9  |
| 80°   | 1.3   | 1.9  | 1.3    | 1.3  | 1.9    | 1.9  |





TEST NUMBER: P1305714

CATALOG NUMBER: P3SQAS09R209024DE010 E3SQCA301MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 1.3   | 1.9 | 1.3    | 0.6  | 1.3    | 1.3  |
| 85°   | 1.3   | 1.9 | 1.3    | 0.6  | 0.6    | 0.6  |
| 87.5° | 1.3   | 1.9 | 1.3    | 0.6  | 0.0    | 0.6  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)