

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: P1309092

Luminaire Tested: P3SQAS13R209035DE010 E3SQCA451MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309092  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS13R209035DE010 E3SQCA451MMS  
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

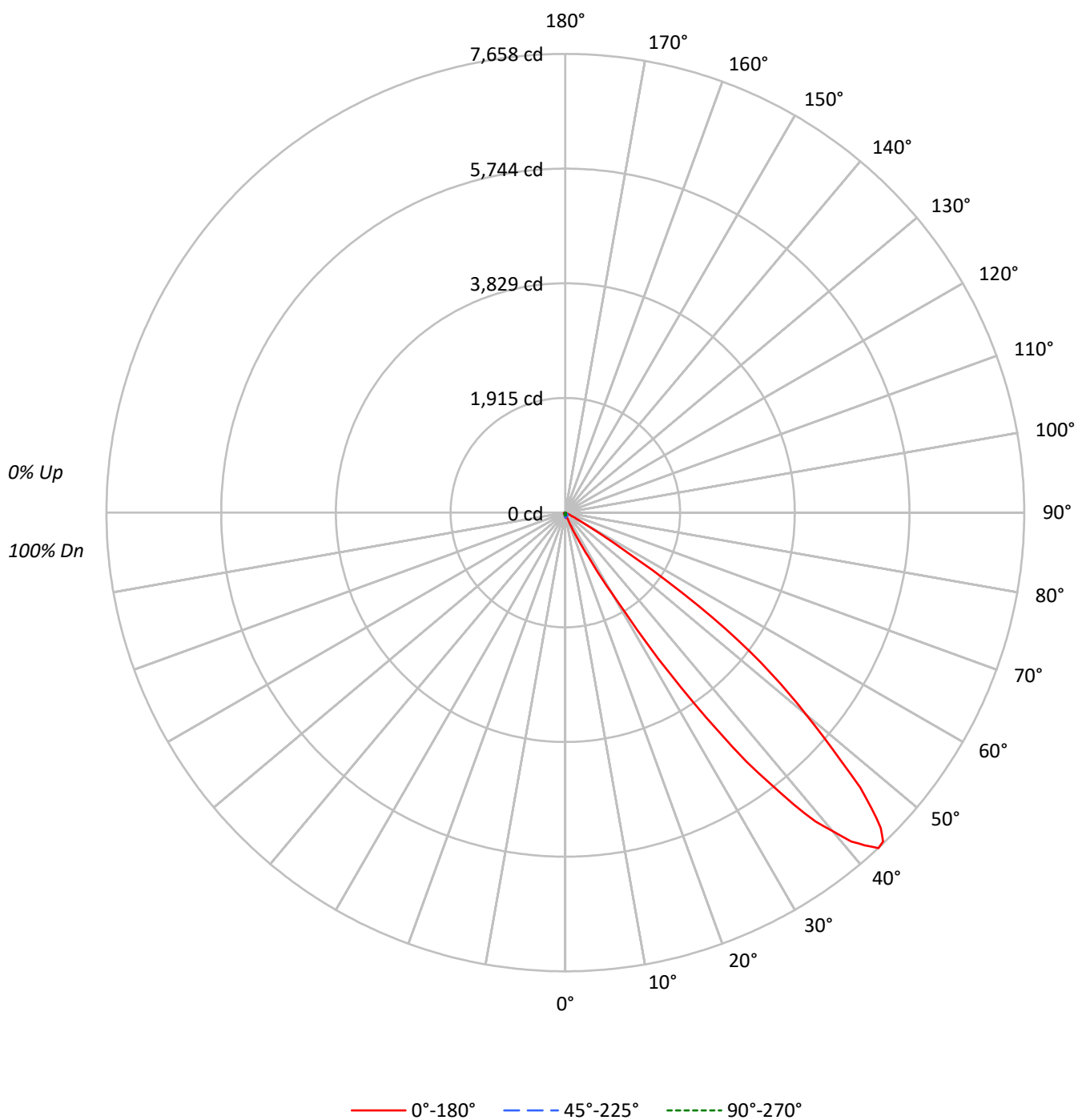
Lumens per Lamp: N/A  
Luminaire Lumens: 1064.0 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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: P1309092

CATALOG NUMBER: P3SQAS13R209035DE010 E3SQCA451MMS

### Luminous Intensity Polar Plot



TEST NUMBER: P1309092

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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 97  | 100 | 97  | 94  | 96  | 94  | 92  | 92  | 91  | 89  |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 78  | 75  |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 63  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  |
| 6   | 68  | 55  | 45  | 39  | 66  | 54  | 45  | 38  | 52  | 44  | 38  | 50  | 43  | 38  | 48  | 42  | 37  |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 38  | 32  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  |
| 8   | 57  | 42  | 33  | 27  | 55  | 42  | 33  | 27  | 40  | 33  | 27  | 39  | 32  | 27  | 38  | 31  | 27  |
| 9   | 52  | 38  | 29  | 23  | 51  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 27  | 23  |
| 10  | 48  | 34  | 25  | 20  | 47  | 33  | 25  | 20  | 32  | 25  | 19  | 31  | 24  | 19  | 30  | 24  | 19  |

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

|     | 0°      | 45°   | 90°   | 135°  | 180°  |
|-----|---------|-------|-------|-------|-------|
| 0°  | 12744   | 12744 | 12744 | 12744 | 12744 |
| 5°  | 14868   | 13830 | 11929 | 10373 | 10027 |
| 10° | 14690   | 12591 | 9443  | 8044  | 7870  |
| 15° | 12837   | 9628  | 6954  | 6419  | 6775  |
| 20° | 19061   | 8064  | 5132  | 5498  | 6048  |
| 25° | 82092   | 8361  | 3991  | 4941  | 5891  |
| 30° | 310409  | 10142 | 3381  | 4773  | 5767  |
| 35° | 940973  | 12194 | 3154  | 4836  | 6097  |
| 40° | 1560346 | 12140 | 2698  | 5171  | 6520  |
| 45° | 1813618 | 8281  | 2436  | 5358  | 7063  |
| 50° | 1407843 | 4555  | 2411  | 5627  | 8038  |
| 55° | 814848  | 3003  | 2402  | 6305  | 8708  |
| 60° | 137778  | 689   | 2067  | 6544  | 9644  |
| 65° | 10595   | 0     | 2445  | 7335  | 11003 |
| 70° | 1511    | 0     | 3021  | 8057  | 12589 |
| 75° | 1331    | 665   | 3327  | 9316  | 14639 |
| 80° | 992     | 992   | 4959  | 9918  | 16860 |
| 85° | 1976    | 1976  | 7904  | 9880  | 17784 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1813618 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.4    | 0.6       |
| 10°-20°   | 13.3   | 1.3       |
| 20°-30°   | 42.5   | 4.0       |
| 30°-40°   | 271.3  | 25.5      |
| 40°-50°   | 496.6  | 46.7      |
| 50°-60°   | 204.1  | 19.2      |
| 60°-70°   | 17.2   | 1.6       |
| 70°-80°   | 8.6    | 0.8       |
| 80°-90°   | 4.0    | 0.4       |
| 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°    | 62.2   | 5.8       |
| 0°-40°    | 333.5  | 31.3      |
| 0°-60°    | 1034.2 | 97.2      |
| 0°-90°    | 1064.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1064.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 74   | 74  | 74  | 74   | 74   |      |
| 5°  | 86   | 80  | 69  | 60   | 58   | 8    |
| 15° | 72   | 54  | 39  | 36   | 38   | 23   |
| 25° | 432  | 44  | 21  | 26   | 31   | 284  |
| 35° | 4476 | 58  | 15  | 23   | 29   | 2833 |
| 45° | 7446 | 34  | 10  | 22   | 29   | 5346 |
| 55° | 2714 | 10  | 8   | 21   | 29   | 2372 |
| 65° | 26   | 0   | 6   | 18   | 27   | 85   |
| 75° | 2    | 1   | 5   | 14   | 22   | 2    |
| 85° | 1    | 1   | 4   | 5    | 9    | 1    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 22.5°  | 45°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| 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°  | 81.0   | 81.0   | 81.0   | 80.0   | 80.0   | 81.0   | 80.0   | 80.0   | 80.0   | 80.0   | 79.0 |
| 5°    | 86.0   | 86.0   | 86.0   | 86.0   | 86.0   | 86.0   | 86.0   | 85.0   | 85.0   | 84.0   | 80.0 |
| 7.5°  | 88.0   | 88.0   | 88.0   | 88.0   | 87.0   | 87.0   | 87.0   | 87.0   | 86.0   | 85.0   | 78.0 |
| 10°   | 84.0   | 84.0   | 84.0   | 83.0   | 83.0   | 83.0   | 82.0   | 82.0   | 81.0   | 80.0   | 72.0 |
| 12.5° | 76.0   | 76.0   | 76.0   | 76.0   | 75.0   | 75.0   | 74.0   | 74.0   | 73.0   | 72.0   | 63.0 |
| 15°   | 72.0   | 72.0   | 72.0   | 71.0   | 71.0   | 70.0   | 69.0   | 68.0   | 67.0   | 65.0   | 54.0 |
| 17.5° | 78.0   | 78.0   | 77.0   | 77.0   | 75.0   | 73.0   | 72.0   | 69.0   | 67.0   | 64.0   | 48.0 |
| 20°   | 104.0  | 105.0  | 101.0  | 98.0   | 96.0   | 90.0   | 87.0   | 82.0   | 78.0   | 73.0   | 44.0 |
| 22.5° | 210.0  | 206.0  | 199.0  | 188.0  | 175.0  | 164.0  | 144.0  | 128.0  | 117.0  | 102.0  | 43.0 |
| 25°   | 432.0  | 428.0  | 409.0  | 393.0  | 353.0  | 322.0  | 279.0  | 244.0  | 208.0  | 173.0  | 44.0 |
| 27.5° | 820.9  | 793.9  | 788.9  | 715.9  | 659.9  | 579.9  | 497.0  | 427.0  | 363.0  | 292.0  | 47.0 |
| 30°   | 1560.9 | 1529.9 | 1420.9 | 1310.9 | 1159.9 | 988.9  | 825.9  | 673.9  | 547.0  | 432.0  | 51.0 |
| 31°   | 1980.8 | 2010.8 | 1882.8 | 1661.9 | 1438.9 | 1219.9 | 996.9  | 803.9  | 639.9  | 497.0  | 53.0 |
| 32°   | 2603.8 | 2472.8 | 2337.8 | 2110.8 | 1786.8 | 1506.9 | 1226.9 | 948.9  | 732.9  | 566.9  | 55.0 |
| 33°   | 3192.7 | 3115.7 | 2909.7 | 2626.8 | 2237.8 | 1844.8 | 1481.9 | 1119.9 | 846.9  | 651.9  | 56.0 |
| 34°   | 3820.7 | 3735.7 | 3568.7 | 3162.7 | 2735.8 | 2220.8 | 1736.8 | 1316.9 | 982.9  | 734.9  | 57.0 |
| 35°   | 4475.6 | 4439.6 | 4117.6 | 3765.7 | 3240.7 | 2619.8 | 2043.8 | 1532.9 | 1115.9 | 810.9  | 58.0 |
| 36°   | 5134.5 | 5018.5 | 4766.6 | 4252.6 | 3704.7 | 2988.7 | 2365.8 | 1733.8 | 1250.9 | 900.9  | 58.0 |
| 37°   | 5630.5 | 5604.5 | 5270.5 | 4769.6 | 4125.6 | 3382.7 | 2643.8 | 1956.8 | 1386.9 | 977.9  | 58.0 |
| 38°   | 6177.4 | 6074.5 | 5735.5 | 5225.5 | 4521.6 | 3743.7 | 2934.7 | 2150.8 | 1515.9 | 1047.9 | 57.0 |
| 39°   | 6638.4 | 6485.4 | 6143.4 | 5639.5 | 4867.6 | 4017.6 | 3165.7 | 2338.8 | 1629.9 | 1105.9 | 56.0 |
| 40°   | 6940.4 | 6834.4 | 6477.4 | 5910.5 | 5181.5 | 4276.6 | 3399.7 | 2493.8 | 1714.8 | 1149.9 | 54.0 |
| 41°   | 7273.3 | 7097.4 | 6744.4 | 6174.4 | 5409.5 | 4504.6 | 3546.7 | 2595.8 | 1780.8 | 1178.9 | 52.0 |
| 42°   | 7472.3 | 7328.3 | 6909.4 | 6351.4 | 5572.5 | 4634.6 | 3666.7 | 2673.8 | 1820.8 | 1193.9 | 48.0 |
| 43°   | 7658.3 | 7462.3 | 7054.4 | 6454.4 | 5680.5 | 4726.6 | 3721.7 | 2709.8 | 1829.8 | 1193.9 | 43.0 |
| 44°   | 7633.3 | 7447.3 | 7024.4 | 6468.4 | 5704.5 | 4753.6 | 3744.7 | 2710.8 | 1815.8 | 1178.9 | 38.0 |
| 45°   | 7446.3 | 7261.3 | 6880.4 | 6346.4 | 5618.5 | 4700.6 | 3698.7 | 2670.8 | 1776.8 | 1152.9 | 34.0 |
| 46°   | 7103.4 | 6919.4 | 6627.4 | 6142.4 | 5458.5 | 4580.6 | 3591.7 | 2583.8 | 1711.8 | 1110.9 | 30.0 |
| 47°   | 6730.4 | 6551.4 | 6252.4 | 5813.5 | 5185.5 | 4366.6 | 3436.7 | 2461.8 | 1620.9 | 1049.9 | 27.0 |
| 48°   | 6189.4 | 6077.5 | 5777.5 | 5402.5 | 4806.6 | 4031.6 | 3164.7 | 2262.8 | 1498.9 | 970.9  | 23.0 |
| 49°   | 5711.5 | 5593.5 | 5330.5 | 4927.6 | 4312.6 | 3641.7 | 2839.7 | 2020.8 | 1339.9 | 882.9  | 20.0 |
| 50°   | 5254.5 | 5151.5 | 4908.6 | 4453.6 | 3866.7 | 3170.7 | 2400.8 | 1715.8 | 1139.9 | 773.9  | 17.0 |
| 51°   | 4807.6 | 4730.6 | 4482.6 | 4064.6 | 3468.7 | 2808.7 | 2079.8 | 1428.9 | 941.9  | 641.9  | 16.0 |
| 52°   | 4358.6 | 4349.6 | 4080.6 | 3657.7 | 3081.7 | 2447.8 | 1767.8 | 1205.9 | 798.9  | 539.0  | 15.0 |
| 53°   | 3875.7 | 3817.7 | 3582.7 | 3202.7 | 2649.8 | 2071.8 | 1498.9 | 1016.9 | 687.9  | 459.0  | 13.0 |
| 54°   | 3325.7 | 3260.7 | 3008.7 | 2665.8 | 2164.8 | 1696.8 | 1207.9 | 821.9  | 572.9  | 388.0  | 12.0 |
| 55°   | 2713.8 | 2602.8 | 2419.8 | 2067.8 | 1690.8 | 1294.9 | 932.9  | 650.9  | 458.0  | 323.0  | 10.0 |
| 56°   | 2058.8 | 1947.8 | 1844.8 | 1585.9 | 1240.9 | 965.9  | 694.9  | 499.0  | 358.0  | 255.0  | 9.0  |
| 57°   | 1431.9 | 1425.9 | 1256.9 | 1057.9 | 829.9  | 657.9  | 476.0  | 352.0  | 253.0  | 198.0  | 7.0  |
| 58°   | 928.9  | 897.9  | 789.9  | 674.9  | 543.0  | 411.0  | 306.0  | 239.0  | 172.0  | 135.0  | 6.0  |
| 59°   | 650.9  | 588.9  | 531.0  | 450.0  | 342.0  | 259.0  | 197.0  | 153.0  | 119.0  | 94.0   | 4.0  |
| 60°   | 400.0  | 387.0  | 348.0  | 274.0  | 222.0  | 183.0  | 147.0  | 113.0  | 87.0   | 67.0   | 2.0  |
| 62.5° | 114.0  | 116.0  | 105.0  | 93.0   | 80.0   | 69.0   | 62.0   | 53.0   | 44.0   | 35.0   | 0.0  |
| 65°   | 26.0   | 25.0   | 27.0   | 25.0   | 23.0   | 23.0   | 20.0   | 18.0   | 16.0   | 15.0   | 0.0  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 8.0 | 8.0  | 7.0 | 7.0  | 7.0 | 6.0   | 6.0 | 5.0   | 5.0 | 4.0   | 0.0 |
| 70°   | 3.0 | 3.0  | 3.0 | 3.0  | 3.0 | 2.0   | 2.0 | 2.0   | 1.0 | 1.0   | 0.0 |
| 72.5° | 3.0 | 3.0  | 3.0 | 2.0  | 2.0 | 2.0   | 2.0 | 2.0   | 1.0 | 1.0   | 1.0 |
| 75°   | 2.0 | 2.0  | 2.0 | 2.0  | 2.0 | 2.0   | 2.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 77.5° | 2.0 | 2.0  | 2.0 | 2.0  | 2.0 | 1.0   | 2.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 80°   | 1.0 | 1.0  | 1.0 | 1.0  | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 82.5° | 1.0 | 1.0  | 1.0 | 1.0  | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 | 1.0   | 1.0 |
| 85°   | 1.0 | 1.0  | 1.0 | 1.0  | 0.0 | 0.0   | 1.0 | 1.0   | 1.0 | 0.0   | 1.0 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 1.0 |
| 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):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 74.0  | 74.0 | 74.0   | 74.0 | 74.0   | 74.0 |
| 2.5°  | 77.0  | 73.0 | 70.0   | 67.0 | 66.0   | 66.0 |
| 5°    | 75.0  | 69.0 | 63.0   | 60.0 | 58.0   | 58.0 |
| 7.5°  | 69.0  | 62.0 | 56.0   | 53.0 | 52.0   | 52.0 |
| 10°   | 62.0  | 54.0 | 48.0   | 46.0 | 46.0   | 45.0 |
| 12.5° | 54.0  | 46.0 | 42.0   | 41.0 | 41.0   | 41.0 |
| 15°   | 45.0  | 39.0 | 36.0   | 36.0 | 37.0   | 38.0 |
| 17.5° | 38.0  | 32.0 | 31.0   | 33.0 | 35.0   | 35.0 |
| 20°   | 32.0  | 28.0 | 28.0   | 30.0 | 32.0   | 33.0 |
| 22.5° | 27.0  | 24.0 | 25.0   | 28.0 | 31.0   | 32.0 |
| 25°   | 24.0  | 21.0 | 23.0   | 26.0 | 29.0   | 31.0 |
| 27.5° | 20.0  | 19.0 | 21.0   | 25.0 | 29.0   | 30.0 |
| 30°   | 17.0  | 17.0 | 20.0   | 24.0 | 28.0   | 29.0 |
| 31°   | 16.0  | 16.0 | 20.0   | 24.0 | 28.0   | 29.0 |
| 32°   | 15.0  | 16.0 | 19.0   | 24.0 | 28.0   | 29.0 |
| 33°   | 14.0  | 15.0 | 19.0   | 23.0 | 28.0   | 29.0 |
| 34°   | 13.0  | 15.0 | 19.0   | 23.0 | 28.0   | 29.0 |
| 35°   | 12.0  | 15.0 | 19.0   | 23.0 | 28.0   | 29.0 |
| 36°   | 11.0  | 14.0 | 18.0   | 23.0 | 28.0   | 29.0 |
| 37°   | 10.0  | 14.0 | 18.0   | 23.0 | 28.0   | 29.0 |
| 38°   | 9.0   | 13.0 | 18.0   | 23.0 | 28.0   | 29.0 |
| 39°   | 9.0   | 13.0 | 17.0   | 23.0 | 27.0   | 29.0 |
| 40°   | 8.0   | 12.0 | 17.0   | 23.0 | 27.0   | 29.0 |
| 41°   | 7.0   | 12.0 | 17.0   | 22.0 | 27.0   | 29.0 |
| 42°   | 6.0   | 11.0 | 16.0   | 22.0 | 27.0   | 29.0 |
| 43°   | 5.0   | 11.0 | 16.0   | 22.0 | 27.0   | 29.0 |
| 44°   | 5.0   | 10.0 | 16.0   | 22.0 | 27.0   | 29.0 |
| 45°   | 4.0   | 10.0 | 16.0   | 22.0 | 27.0   | 29.0 |
| 46°   | 3.0   | 10.0 | 16.0   | 22.0 | 27.0   | 29.0 |
| 47°   | 3.0   | 9.0  | 15.0   | 22.0 | 27.0   | 29.0 |
| 48°   | 2.0   | 9.0  | 15.0   | 22.0 | 27.0   | 29.0 |
| 49°   | 2.0   | 9.0  | 15.0   | 22.0 | 27.0   | 30.0 |
| 50°   | 2.0   | 9.0  | 15.0   | 21.0 | 27.0   | 30.0 |
| 51°   | 1.0   | 9.0  | 15.0   | 21.0 | 27.0   | 30.0 |
| 52°   | 1.0   | 9.0  | 14.0   | 21.0 | 28.0   | 30.0 |
| 53°   | 1.0   | 8.0  | 14.0   | 21.0 | 28.0   | 30.0 |
| 54°   | 1.0   | 8.0  | 14.0   | 21.0 | 28.0   | 29.0 |
| 55°   | 1.0   | 8.0  | 14.0   | 21.0 | 27.0   | 29.0 |
| 56°   | 1.0   | 7.0  | 14.0   | 21.0 | 27.0   | 29.0 |
| 57°   | 1.0   | 7.0  | 13.0   | 20.0 | 27.0   | 28.0 |
| 58°   | 1.0   | 7.0  | 13.0   | 20.0 | 27.0   | 28.0 |
| 59°   | 1.0   | 7.0  | 13.0   | 20.0 | 26.0   | 28.0 |
| 60°   | 2.0   | 6.0  | 12.0   | 19.0 | 26.0   | 28.0 |
| 62.5° | 2.0   | 6.0  | 12.0   | 19.0 | 25.0   | 27.0 |
| 65°   | 2.0   | 6.0  | 11.0   | 18.0 | 25.0   | 27.0 |





TEST NUMBER: P1309092

CATALOG NUMBER: P3SQAS13R209035DE010 E3SQCA451MMS

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 2.0   | 5.0 | 10.0   | 17.0 | 24.0   | 26.0 |
| 70°   | 2.0   | 6.0 | 10.0   | 16.0 | 23.0   | 25.0 |
| 72.5° | 3.0   | 5.0 | 9.0    | 15.0 | 22.0   | 24.0 |
| 75°   | 3.0   | 5.0 | 9.0    | 14.0 | 21.0   | 22.0 |
| 77.5° | 4.0   | 5.0 | 8.0    | 12.0 | 19.0   | 20.0 |
| 80°   | 4.0   | 5.0 | 7.0    | 10.0 | 16.0   | 17.0 |
| 82.5° | 4.0   | 5.0 | 5.0    | 8.0  | 12.0   | 13.0 |
| 85°   | 3.0   | 4.0 | 4.0    | 5.0  | 8.0    | 9.0  |
| 87.5° | 3.0   | 4.0 | 3.0    | 2.0  | 4.0    | 4.0  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)