

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: P1316629

Luminaire Tested: P3SQAS02R159830DE010 E3SQCA451MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316629  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS02R159830DE010 E3SQCA451MB  
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , E3SQCA451MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

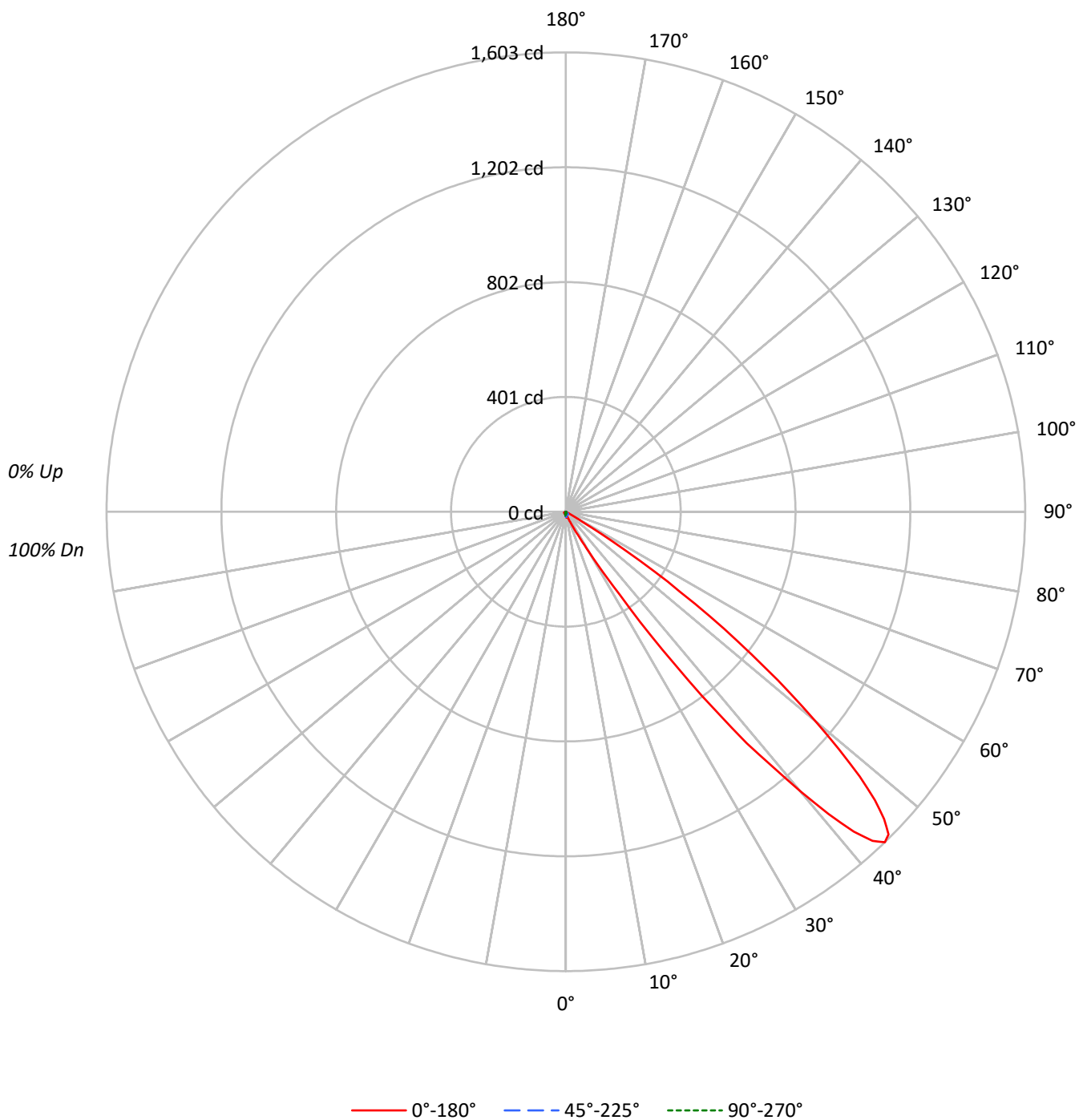
Lumens per Lamp: N/A  
Luminaire Lumens: 179.0 lumens  
Efficiency: N/A  
Efficacy: 49.7 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.09  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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

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CATALOG NUMBER: P3SQAS02R159830DE010 E3SQCA451MB

### 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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 100 | 97  | 94  |  | 96  | 93  | 91  |  | 92  | 90  | 89  | 87  |
| 2   | 101 | 93  | 87  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  |  | 84  | 80  | 77  |  | 81  | 78  | 75  | 73  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  |  | 74  | 68  | 64  |  | 71  | 67  | 63  | 61  |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  |  | 64  | 58  | 53  |  | 62  | 57  | 53  | 50  |
| 5   | 75  | 62  | 52  | 46  | 73  | 61  | 52  | 45  | 58  | 51  | 45  |  | 56  | 50  | 44  |  | 54  | 49  | 44  | 42  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  |  | 49  | 42  | 37  |  | 48  | 42  | 37  | 35  |
| 7   | 62  | 47  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  |  | 44  | 36  | 31  |  | 42  | 36  | 31  | 29  |
| 8   | 56  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 26  |  | 39  | 31  | 26  |  | 37  | 31  | 26  | 24  |
| 9   | 52  | 37  | 28  | 22  | 50  | 37  | 28  | 22  | 35  | 28  | 22  |  | 34  | 27  | 22  |  | 33  | 27  | 22  | 20  |
| 10  | 48  | 33  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 24  | 19  |  | 31  | 24  | 19  |  | 30  | 23  | 19  | 17  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 2738   | 2738 | 2738 | 2738 | 2738 |
| 5°  | 3388   | 3025 | 2472 | 2161 | 2126 |
| 10° | 3340   | 2588 | 1906 | 1679 | 1714 |
| 15° | 2764   | 1854 | 1373 | 1409 | 1498 |
| 20° | 4802   | 1466 | 1045 | 1210 | 1375 |
| 25° | 10718  | 1767 | 855  | 1121 | 1292 |
| 30° | 32057  | 2168 | 736  | 1094 | 1352 |
| 35° | 123372 | 2439 | 673  | 1135 | 1430 |
| 40° | 286377 | 2136 | 652  | 1169 | 1529 |
| 45° | 387893 | 1607 | 560  | 1267 | 1656 |
| 50° | 304128 | 965  | 563  | 1340 | 1822 |
| 55° | 145987 | 420  | 540  | 1441 | 1982 |
| 60° | 13330  | 69   | 482  | 1550 | 2204 |
| 65° | 1467   | 0    | 448  | 1589 | 2404 |
| 70° | 352    | 0    | 554  | 1712 | 2618 |
| 75° | 333    | 133  | 732  | 1930 | 2994 |
| 80° | 397    | 397  | 893  | 1984 | 3174 |
| 85° | 395    | 395  | 1383 | 1778 | 3557 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 387893 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.4    | 0.8       |
| 10°-20°   | 2.8    | 1.6       |
| 20°-30°   | 6.8    | 3.8       |
| 30°-40°   | 37.0   | 20.7      |
| 40°-50°   | 89.7   | 50.1      |
| 50°-60°   | 35.8   | 20.0      |
| 60°-70°   | 3.1    | 1.7       |
| 70°-80°   | 1.8    | 1.0       |
| 80°-90°   | 0.8    | 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°    | 10.9   | 6.1       |
| 0°-40°    | 48.0   | 26.8      |
| 0°-60°    | 173.4  | 96.9      |
| 0°-90°    | 179.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 179.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 16   | 16  | 16  | 16   | 16   |      |
| 5°  | 20   | 18  | 14  | 12   | 12   | 2    |
| 15° | 16   | 10  | 8   | 8    | 8    | 5    |
| 25° | 56   | 9   | 4   | 6    | 7    | 34   |
| 35° | 587  | 12  | 3   | 5    | 7    | 415  |
| 45° | 1593 | 7   | 2   | 5    | 7    | 1123 |
| 55° | 486  | 1   | 2   | 5    | 7    | 453  |
| 65° | 4    | 0   | 1   | 4    | 6    | 9    |
| 75° | 0    | 0   | 1   | 3    | 4    | 1    |
| 85° | 0    | 0   | 1   | 1    | 2    | 0    |
| 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°    | 15.9   | 15.9   | 15.9   | 15.9   | 15.9   | 15.9  | 15.9  | 15.9  | 15.9  | 15.9  | 15.9 |
| 2.5°  | 17.8   | 17.8   | 18.0   | 17.8   | 17.8   | 17.8  | 17.8  | 17.7  | 17.7  | 17.7  | 17.1 |
| 5°    | 19.6   | 19.6   | 19.6   | 19.6   | 19.5   | 19.5  | 19.5  | 19.3  | 19.3  | 19.1  | 17.5 |
| 7.5°  | 20.3   | 20.3   | 20.2   | 20.2   | 20.0   | 20.0  | 19.8  | 19.6  | 19.5  | 19.3  | 16.8 |
| 10°   | 19.1   | 19.1   | 19.1   | 18.9   | 18.9   | 18.7  | 18.6  | 18.4  | 18.2  | 17.8  | 14.8 |
| 12.5° | 17.0   | 17.0   | 17.1   | 17.0   | 16.8   | 16.6  | 16.2  | 16.1  | 15.9  | 15.5  | 12.3 |
| 15°   | 15.5   | 15.5   | 15.5   | 15.3   | 15.2   | 14.8  | 14.6  | 14.3  | 14.1  | 13.6  | 10.4 |
| 17.5° | 19.8   | 19.8   | 19.6   | 19.3   | 18.6   | 18.0  | 17.1  | 16.4  | 15.5  | 14.5  | 8.9  |
| 20°   | 26.2   | 26.2   | 25.9   | 25.5   | 24.6   | 23.7  | 22.3  | 21.1  | 19.6  | 18.4  | 8.0  |
| 22.5° | 38.0   | 38.6   | 37.5   | 36.2   | 35.0   | 32.8  | 30.9  | 28.9  | 26.4  | 24.3  | 8.2  |
| 25°   | 56.4   | 56.9   | 56.4   | 53.5   | 51.2   | 48.4  | 44.6  | 40.7  | 36.4  | 32.5  | 9.3  |
| 27.5° | 91.4   | 91.7   | 90.8   | 83.9   | 80.1   | 72.6  | 66.0  | 59.6  | 52.5  | 45.3  | 10.2 |
| 30°   | 161.2  | 161.3  | 155.6  | 141.7  | 129.4  | 113.0 | 99.1  | 85.7  | 74.4  | 63.0  | 10.9 |
| 31°   | 212.2  | 207.2  | 195.1  | 178.3  | 158.7  | 136.5 | 117.4 | 100.1 | 83.4  | 71.0  | 11.1 |
| 32°   | 269.5  | 268.8  | 248.6  | 219.5  | 193.3  | 165.6 | 136.9 | 114.8 | 95.5  | 78.7  | 11.2 |
| 33°   | 345.4  | 345.7  | 313.9  | 279.7  | 236.7  | 199.5 | 161.9 | 131.5 | 108.3 | 87.8  | 11.6 |
| 34°   | 463.9  | 436.0  | 398.7  | 352.3  | 293.8  | 237.9 | 189.0 | 151.0 | 119.9 | 96.6  | 11.6 |
| 35°   | 586.8  | 558.8  | 517.8  | 447.4  | 367.1  | 289.0 | 221.3 | 171.9 | 133.9 | 106.0 | 11.6 |
| 36°   | 724.6  | 700.9  | 638.8  | 549.0  | 446.6  | 337.1 | 255.6 | 196.0 | 147.6 | 114.6 | 11.4 |
| 37°   | 873.5  | 838.7  | 769.8  | 671.8  | 534.7  | 405.0 | 297.3 | 219.9 | 161.3 | 123.9 | 11.1 |
| 38°   | 1024.7 | 993.2  | 906.3  | 787.6  | 640.0  | 476.5 | 339.1 | 242.9 | 174.0 | 130.8 | 10.5 |
| 39°   | 1139.2 | 1122.1 | 1035.9 | 903.3  | 724.1  | 544.4 | 382.1 | 267.5 | 187.4 | 137.8 | 10.0 |
| 40°   | 1273.8 | 1246.1 | 1164.4 | 1000.4 | 823.5  | 613.4 | 424.2 | 289.3 | 198.5 | 143.3 | 9.5  |
| 41°   | 1396.6 | 1361.6 | 1258.5 | 1100.0 | 903.1  | 675.5 | 464.2 | 311.8 | 207.4 | 146.5 | 9.1  |
| 42°   | 1501.9 | 1461.2 | 1353.4 | 1185.3 | 969.7  | 725.2 | 496.2 | 327.9 | 215.8 | 149.2 | 8.6  |
| 43°   | 1570.1 | 1534.9 | 1428.9 | 1249.4 | 1026.6 | 770.7 | 526.0 | 344.6 | 221.0 | 151.0 | 7.9  |
| 44°   | 1603.3 | 1567.8 | 1465.1 | 1289.5 | 1061.6 | 798.0 | 545.3 | 356.2 | 226.7 | 153.3 | 7.3  |
| 45°   | 1592.6 | 1556.5 | 1457.3 | 1290.2 | 1072.5 | 807.8 | 553.5 | 361.4 | 229.7 | 155.5 | 6.6  |
| 46°   | 1543.5 | 1518.1 | 1418.2 | 1256.7 | 1051.8 | 797.3 | 548.8 | 357.5 | 228.6 | 155.5 | 5.9  |
| 47°   | 1474.6 | 1445.7 | 1350.6 | 1199.0 | 1001.6 | 770.1 | 530.1 | 345.5 | 222.0 | 151.9 | 5.2  |
| 48°   | 1380.7 | 1356.1 | 1256.1 | 1107.5 | 924.7  | 711.1 | 487.8 | 326.1 | 211.7 | 144.9 | 4.5  |
| 49°   | 1262.9 | 1228.7 | 1135.7 | 990.4  | 824.4  | 627.2 | 432.3 | 293.2 | 195.1 | 135.1 | 3.9  |
| 50°   | 1135.1 | 1092.8 | 1021.1 | 873.1  | 720.7  | 537.8 | 359.3 | 247.9 | 171.7 | 122.3 | 3.6  |
| 51°   | 1010.0 | 967.0  | 898.6  | 772.8  | 610.0  | 446.2 | 289.9 | 197.9 | 141.4 | 104.6 | 3.0  |
| 52°   | 880.3  | 844.2  | 767.6  | 668.8  | 522.2  | 361.6 | 241.5 | 167.4 | 117.4 | 87.8  | 2.5  |
| 53°   | 751.0  | 726.4  | 653.6  | 553.5  | 419.6  | 295.4 | 197.2 | 143.3 | 102.4 | 75.1  | 2.0  |
| 54°   | 621.6  | 594.7  | 539.4  | 450.1  | 338.2  | 233.1 | 167.2 | 119.9 | 88.9  | 65.5  | 1.8  |
| 55°   | 486.2  | 472.3  | 421.2  | 343.2  | 256.3  | 186.0 | 135.6 | 103.2 | 74.4  | 54.8  | 1.4  |
| 56°   | 374.5  | 358.7  | 312.2  | 249.0  | 190.4  | 145.6 | 109.8 | 84.2  | 63.0  | 45.9  | 1.1  |
| 57°   | 245.2  | 229.2  | 198.3  | 173.8  | 138.7  | 106.2 | 83.9  | 66.4  | 51.2  | 38.0  | 0.9  |
| 58°   | 144.9  | 130.3  | 125.5  | 107.1  | 92.5   | 72.1  | 61.9  | 49.4  | 37.8  | 30.0  | 0.5  |
| 59°   | 66.6   | 67.6   | 60.1   | 56.4   | 51.2   | 45.9  | 37.7  | 33.0  | 25.9  | 21.6  | 0.4  |
| 60°   | 38.7   | 36.6   | 35.7   | 31.9   | 28.4   | 25.2  | 22.7  | 20.0  | 16.2  | 13.9  | 0.2  |
| 62.5° | 13.2   | 12.7   | 13.0   | 11.8   | 11.1   | 10.7  | 9.8   | 8.4   | 7.0   | 5.7   | 0.0  |
| 65°   | 3.6    | 3.6    | 3.4    | 3.2    | 3.0    | 2.9   | 2.7   | 2.3   | 2.1   | 1.8   | 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° | 1.2 | 1.2  | 1.1 | 1.1  | 0.9 | 0.9   | 0.7 | 0.7   | 0.5 | 0.5   | 0.0 |
| 70°   | 0.7 | 0.7  | 0.7 | 0.5  | 0.5 | 0.5   | 0.4 | 0.4   | 0.4 | 0.2   | 0.0 |
| 72.5° | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.5   | 0.4 | 0.4   | 0.4 | 0.2   | 0.2 |
| 75°   | 0.5 | 0.5  | 0.5 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.2 |
| 77.5° | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 |
| 80°   | 0.4 | 0.4  | 0.4 | 0.4  | 0.4 | 0.4   | 0.4 | 0.4   | 0.4 | 0.2   | 0.4 |
| 82.5° | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.4 |
| 85°   | 0.2 | 0.2  | 0.2 | 0.2  | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 | 0.2   | 0.2 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.2 |
| 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):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 15.9  | 15.9 | 15.9   | 15.9 | 15.9   | 15.9 |
| 2.5°  | 16.4  | 15.7 | 14.8   | 14.3 | 14.1   | 13.9 |
| 5°    | 15.7  | 14.3 | 13.2   | 12.5 | 12.3   | 12.3 |
| 7.5°  | 14.1  | 12.5 | 11.4   | 11.1 | 10.9   | 10.9 |
| 10°   | 12.3  | 10.9 | 10.0   | 9.6  | 9.8    | 9.8  |
| 12.5° | 10.4  | 9.1  | 8.7    | 8.7  | 8.9    | 9.1  |
| 15°   | 8.4   | 7.7  | 7.7    | 7.9  | 8.2    | 8.4  |
| 17.5° | 7.0   | 6.6  | 6.8    | 7.1  | 7.5    | 7.9  |
| 20°   | 5.7   | 5.7  | 6.1    | 6.6  | 7.1    | 7.5  |
| 22.5° | 4.8   | 5.0  | 5.5    | 6.1  | 6.8    | 7.1  |
| 25°   | 4.1   | 4.5  | 5.0    | 5.9  | 6.6    | 6.8  |
| 27.5° | 3.6   | 4.1  | 4.8    | 5.7  | 6.4    | 6.8  |
| 30°   | 3.0   | 3.7  | 4.6    | 5.5  | 6.4    | 6.8  |
| 31°   | 2.9   | 3.6  | 4.5    | 5.5  | 6.4    | 6.8  |
| 32°   | 2.7   | 3.6  | 4.5    | 5.5  | 6.4    | 6.8  |
| 33°   | 2.5   | 3.4  | 4.5    | 5.4  | 6.4    | 6.8  |
| 34°   | 2.3   | 3.4  | 4.5    | 5.5  | 6.4    | 6.8  |
| 35°   | 2.1   | 3.2  | 4.3    | 5.4  | 6.2    | 6.8  |
| 36°   | 2.0   | 3.2  | 4.3    | 5.4  | 6.4    | 6.8  |
| 37°   | 1.8   | 3.2  | 4.3    | 5.4  | 6.2    | 6.8  |
| 38°   | 1.8   | 3.0  | 4.1    | 5.4  | 6.2    | 6.8  |
| 39°   | 1.6   | 2.9  | 4.1    | 5.4  | 6.2    | 6.8  |
| 40°   | 1.4   | 2.9  | 3.9    | 5.2  | 6.2    | 6.8  |
| 41°   | 1.2   | 2.7  | 3.9    | 5.2  | 6.2    | 6.8  |
| 42°   | 1.1   | 2.7  | 3.9    | 5.2  | 6.2    | 6.8  |
| 43°   | 0.9   | 2.5  | 3.7    | 5.2  | 6.2    | 6.8  |
| 44°   | 0.9   | 2.5  | 3.7    | 5.2  | 6.2    | 6.8  |
| 45°   | 0.7   | 2.3  | 3.6    | 5.2  | 6.2    | 6.8  |
| 46°   | 0.7   | 2.3  | 3.6    | 5.0  | 6.2    | 6.8  |
| 47°   | 0.5   | 2.3  | 3.6    | 5.0  | 6.2    | 6.8  |
| 48°   | 0.5   | 2.1  | 3.6    | 5.0  | 6.2    | 6.8  |
| 49°   | 0.4   | 2.1  | 3.6    | 5.0  | 6.2    | 6.8  |
| 50°   | 0.4   | 2.1  | 3.4    | 5.0  | 6.2    | 6.8  |
| 51°   | 0.4   | 2.1  | 3.4    | 5.0  | 6.2    | 6.8  |
| 52°   | 0.4   | 2.0  | 3.4    | 5.0  | 6.2    | 6.8  |
| 53°   | 0.4   | 2.0  | 3.4    | 5.0  | 6.2    | 6.8  |
| 54°   | 0.4   | 2.0  | 3.2    | 5.0  | 6.2    | 6.8  |
| 55°   | 0.4   | 1.8  | 3.2    | 4.8  | 6.2    | 6.6  |
| 56°   | 0.4   | 1.8  | 3.2    | 4.8  | 6.2    | 6.6  |
| 57°   | 0.4   | 1.8  | 3.0    | 4.8  | 6.2    | 6.6  |
| 58°   | 0.4   | 1.6  | 3.0    | 4.6  | 6.1    | 6.6  |
| 59°   | 0.4   | 1.6  | 2.9    | 4.6  | 6.1    | 6.4  |
| 60°   | 0.4   | 1.4  | 2.9    | 4.5  | 5.9    | 6.4  |
| 62.5° | 0.4   | 1.2  | 2.5    | 4.3  | 5.7    | 6.1  |
| 65°   | 0.4   | 1.1  | 2.3    | 3.9  | 5.5    | 5.9  |





TEST NUMBER: P1316629

CATALOG NUMBER: P3SQAS02R159830DE010 E3SQCA451MB

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.4   | 1.1 | 2.1    | 3.7  | 5.2    | 5.7  |
| 70°   | 0.4   | 1.1 | 2.0    | 3.4  | 5.0    | 5.2  |
| 72.5° | 0.5   | 1.1 | 1.8    | 3.2  | 4.6    | 4.8  |
| 75°   | 0.7   | 1.1 | 1.6    | 2.9  | 4.3    | 4.5  |
| 77.5° | 0.7   | 1.1 | 1.4    | 2.5  | 3.7    | 3.9  |
| 80°   | 0.7   | 0.9 | 1.2    | 2.0  | 3.0    | 3.2  |
| 82.5° | 0.7   | 0.9 | 0.9    | 1.6  | 2.3    | 2.5  |
| 85°   | 0.5   | 0.7 | 0.7    | 0.9  | 1.6    | 1.8  |
| 87.5° | 0.5   | 0.7 | 0.4    | 0.5  | 0.7    | 0.7  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)