

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: P1305375

Luminaire Tested: P3SQAS02R159024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1305375  
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: P3SQAS02R159024DE010 E3SQCA451MMS  
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

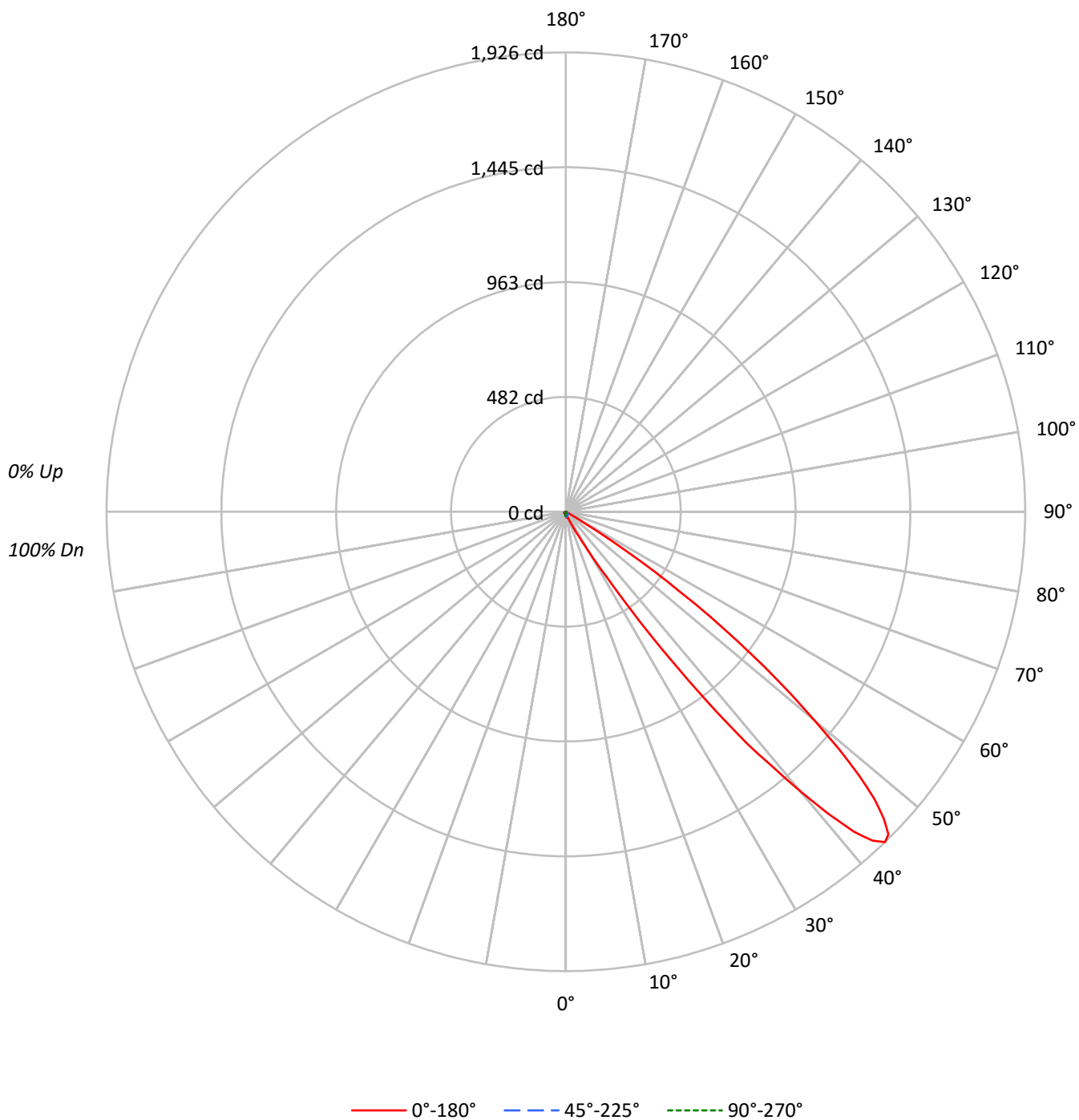
Lumens per Lamp: N/A  
Luminaire Lumens: 215.0 lumens  
Efficiency: N/A  
Efficacy: 59.7 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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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### 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   | 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  | 55  | 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°  | 3289   | 3289 | 3289 | 3289 | 3289 |
| 5°  | 4080   | 3630 | 2974 | 2593 | 2559 |
| 10° | 4005   | 3113 | 2291 | 2029 | 2064 |
| 15° | 3334   | 2211 | 1640 | 1676 | 1801 |
| 20° | 5773   | 1759 | 1265 | 1448 | 1649 |
| 25° | 12865  | 2109 | 1026 | 1349 | 1539 |
| 30° | 38500  | 2605 | 895  | 1313 | 1611 |
| 35° | 148202 | 2922 | 820  | 1346 | 1703 |
| 40° | 343976 | 2563 | 764  | 1394 | 1821 |
| 45° | 465905 | 1924 | 682  | 1510 | 1973 |
| 50° | 365297 | 1152 | 697  | 1608 | 2170 |
| 55° | 175352 | 510  | 631  | 1742 | 2372 |
| 60° | 16017  | 69   | 586  | 1860 | 2652 |
| 65° | 1752   | 0    | 530  | 1915 | 2893 |
| 70° | 453    | 0    | 655  | 2065 | 3122 |
| 75° | 399    | 133  | 865  | 2262 | 3593 |
| 80° | 397    | 397  | 1091 | 2380 | 3868 |
| 85° | 395    | 395  | 1778 | 2174 | 4150 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 465905 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.6    | 0.8       |
| 10°-20°   | 3.4    | 1.6       |
| 20°-30°   | 8.1    | 3.8       |
| 30°-40°   | 44.5   | 20.7      |
| 40°-50°   | 107.7  | 50.1      |
| 50°-60°   | 43.0   | 20.0      |
| 60°-70°   | 3.7    | 1.7       |
| 70°-80°   | 2.1    | 1.0       |
| 80°-90°   | 0.9    | 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°    | 13.1   | 6.1       |
| 0°-40°    | 57.6   | 26.8      |
| 0°-60°    | 208.3  | 96.9      |
| 0°-90°    | 215.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 215.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 19   | 19  | 19  | 19   | 19   |      |
| 5°  | 24   | 21  | 17  | 15   | 15   | 2    |
| 15° | 19   | 12  | 9   | 9    | 10   | 6    |
| 25° | 68   | 11  | 5   | 7    | 8    | 41   |
| 35° | 705  | 14  | 4   | 6    | 8    | 498  |
| 45° | 1913 | 8   | 3   | 6    | 8    | 1349 |
| 55° | 584  | 2   | 2   | 6    | 8    | 544  |
| 65° | 4    | 0   | 1   | 5    | 7    | 11   |
| 75° | 1    | 0   | 1   | 3    | 5    | 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°    | 19.1   | 19.1   | 19.1   | 19.1   | 19.1   | 19.1  | 19.1  | 19.1  | 19.1  | 19.1  | 19.1 |
| 2.5°  | 21.4   | 21.4   | 21.7   | 21.4   | 21.4   | 21.4  | 21.4  | 21.2  | 21.2  | 21.2  | 20.6 |
| 5°    | 23.6   | 23.6   | 23.6   | 23.6   | 23.4   | 23.4  | 23.4  | 23.2  | 23.2  | 22.9  | 21.0 |
| 7.5°  | 24.4   | 24.4   | 24.2   | 24.2   | 24.0   | 24.0  | 23.8  | 23.6  | 23.4  | 23.2  | 20.2 |
| 10°   | 22.9   | 22.9   | 22.9   | 22.7   | 22.7   | 22.5  | 22.3  | 22.1  | 21.9  | 21.4  | 17.8 |
| 12.5° | 20.4   | 20.4   | 20.6   | 20.4   | 20.2   | 19.9  | 19.5  | 19.3  | 19.1  | 18.7  | 14.8 |
| 15°   | 18.7   | 18.7   | 18.7   | 18.4   | 18.2   | 17.8  | 17.6  | 17.2  | 16.9  | 16.3  | 12.4 |
| 17.5° | 23.8   | 23.8   | 23.6   | 23.2   | 22.3   | 21.7  | 20.6  | 19.7  | 18.7  | 17.4  | 10.7 |
| 20°   | 31.5   | 31.5   | 31.1   | 30.7   | 29.6   | 28.5  | 26.8  | 25.3  | 23.6  | 22.1  | 9.6  |
| 22.5° | 45.7   | 46.3   | 45.0   | 43.5   | 42.0   | 39.4  | 37.1  | 34.7  | 31.7  | 29.2  | 9.9  |
| 25°   | 67.7   | 68.4   | 67.7   | 64.3   | 61.5   | 58.1  | 53.6  | 48.9  | 43.7  | 39.0  | 11.1 |
| 27.5° | 109.8  | 110.2  | 109.1  | 100.8  | 96.3   | 87.3  | 79.3  | 71.6  | 63.0  | 54.5  | 12.2 |
| 30°   | 193.6  | 193.8  | 186.9  | 170.2  | 155.4  | 135.7 | 119.0 | 102.9 | 89.4  | 75.7  | 13.1 |
| 31°   | 254.9  | 248.9  | 234.3  | 214.2  | 190.6  | 164.0 | 141.1 | 120.3 | 100.1 | 85.3  | 13.3 |
| 32°   | 323.7  | 322.8  | 298.6  | 263.7  | 232.2  | 198.9 | 164.4 | 137.8 | 114.7 | 94.5  | 13.5 |
| 33°   | 414.8  | 415.2  | 377.1  | 335.9  | 284.3  | 239.7 | 194.4 | 158.0 | 130.1 | 105.5 | 13.9 |
| 34°   | 557.2  | 523.7  | 478.9  | 423.2  | 352.9  | 285.8 | 227.0 | 181.4 | 144.1 | 116.0 | 13.9 |
| 35°   | 704.9  | 671.2  | 621.9  | 537.4  | 441.0  | 347.1 | 265.8 | 206.4 | 160.8 | 127.3 | 13.9 |
| 36°   | 870.4  | 841.9  | 767.2  | 659.4  | 536.4  | 405.0 | 307.0 | 235.4 | 177.3 | 137.6 | 13.7 |
| 37°   | 1049.2 | 1007.3 | 924.6  | 806.9  | 642.3  | 486.4 | 357.1 | 264.1 | 193.8 | 148.8 | 13.3 |
| 38°   | 1230.7 | 1193.0 | 1088.6 | 946.0  | 768.7  | 572.4 | 407.3 | 291.8 | 209.0 | 157.1 | 12.6 |
| 39°   | 1368.4 | 1347.8 | 1244.2 | 1085.0 | 869.7  | 653.8 | 459.0 | 321.3 | 225.1 | 165.5 | 12.0 |
| 40°   | 1530.0 | 1496.8 | 1398.6 | 1201.6 | 989.1  | 736.8 | 509.6 | 347.5 | 238.4 | 172.1 | 11.4 |
| 41°   | 1677.5 | 1635.5 | 1511.6 | 1321.2 | 1084.7 | 811.4 | 557.6 | 374.5 | 249.1 | 176.0 | 10.9 |
| 42°   | 1804.0 | 1755.1 | 1625.6 | 1423.7 | 1164.7 | 871.0 | 596.0 | 393.8 | 259.2 | 179.2 | 10.3 |
| 43°   | 1885.9 | 1843.6 | 1716.3 | 1500.6 | 1233.1 | 925.7 | 631.8 | 414.0 | 265.4 | 181.4 | 9.4  |
| 44°   | 1925.7 | 1883.1 | 1759.8 | 1548.9 | 1275.1 | 958.5 | 654.9 | 427.9 | 272.3 | 184.1 | 8.8  |
| 45°   | 1912.9 | 1869.6 | 1750.4 | 1549.7 | 1288.2 | 970.3 | 664.8 | 434.1 | 275.9 | 186.7 | 7.9  |
| 46°   | 1853.9 | 1823.5 | 1703.4 | 1509.4 | 1263.3 | 957.6 | 659.2 | 429.4 | 274.6 | 186.7 | 7.1  |
| 47°   | 1771.2 | 1736.4 | 1622.2 | 1440.2 | 1203.1 | 925.0 | 636.7 | 415.0 | 266.7 | 182.4 | 6.2  |
| 48°   | 1658.4 | 1628.8 | 1508.8 | 1330.2 | 1110.7 | 854.1 | 585.9 | 391.7 | 254.2 | 174.1 | 5.4  |
| 49°   | 1516.9 | 1475.8 | 1364.1 | 1189.6 | 990.2  | 753.3 | 519.2 | 352.2 | 234.3 | 162.3 | 4.7  |
| 50°   | 1363.4 | 1312.6 | 1226.4 | 1048.7 | 865.6  | 645.9 | 431.5 | 297.8 | 206.2 | 146.8 | 4.3  |
| 51°   | 1213.1 | 1161.5 | 1079.4 | 928.2  | 732.7  | 535.9 | 348.1 | 237.7 | 169.8 | 125.6 | 3.6  |
| 52°   | 1057.3 | 1014.0 | 922.0  | 803.3  | 627.3  | 434.3 | 290.0 | 201.1 | 141.1 | 105.5 | 3.0  |
| 53°   | 902.1  | 872.5  | 785.0  | 664.8  | 504.0  | 354.8 | 236.9 | 172.1 | 123.1 | 90.3  | 2.4  |
| 54°   | 746.7  | 714.3  | 647.8  | 540.7  | 406.2  | 280.0 | 200.9 | 144.1 | 106.8 | 78.7  | 2.1  |
| 55°   | 584.0  | 567.2  | 505.9  | 412.2  | 307.8  | 223.4 | 162.9 | 123.9 | 89.4  | 65.8  | 1.7  |
| 56°   | 449.8  | 430.9  | 374.9  | 299.1  | 228.7  | 174.9 | 131.8 | 101.2 | 75.7  | 55.1  | 1.3  |
| 57°   | 294.6  | 275.3  | 238.2  | 208.8  | 166.6  | 127.6 | 100.8 | 79.7  | 61.5  | 45.7  | 1.1  |
| 58°   | 174.1  | 156.5  | 150.7  | 128.6  | 111.0  | 86.6  | 74.4  | 59.4  | 45.4  | 36.0  | 0.6  |
| 59°   | 80.0   | 81.2   | 72.2   | 67.7   | 61.5   | 55.1  | 45.2  | 39.7  | 31.1  | 25.9  | 0.4  |
| 60°   | 46.5   | 43.9   | 42.9   | 38.4   | 34.1   | 30.2  | 27.2  | 24.0  | 19.5  | 16.7  | 0.2  |
| 62.5° | 15.9   | 15.2   | 15.6   | 14.1   | 13.3   | 12.9  | 11.8  | 10.1  | 8.4   | 6.9   | 0.0  |
| 65°   | 4.3    | 4.3    | 4.1    | 3.9    | 3.6    | 3.4   | 3.2   | 2.8   | 2.6   | 2.1   | 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° | 1.5 | 1.5  | 1.3 | 1.3  | 1.1 | 1.1   | 0.9 | 0.9   | 0.6 | 0.6   | 0.0 |
| 70°   | 0.9 | 0.9  | 0.9 | 0.6  | 0.6 | 0.6   | 0.4 | 0.4   | 0.4 | 0.2   | 0.0 |
| 72.5° | 0.6 | 0.6  | 0.6 | 0.6  | 0.6 | 0.6   | 0.4 | 0.4   | 0.4 | 0.2   | 0.2 |
| 75°   | 0.6 | 0.6  | 0.6 | 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°    | 19.1  | 19.1 | 19.1   | 19.1 | 19.1   | 19.1 |
| 2.5°  | 19.7  | 18.9 | 17.8   | 17.2 | 16.9   | 16.7 |
| 5°    | 18.9  | 17.2 | 15.9   | 15.0 | 14.8   | 14.8 |
| 7.5°  | 16.9  | 15.0 | 13.7   | 13.3 | 13.1   | 13.1 |
| 10°   | 14.8  | 13.1 | 12.0   | 11.6 | 11.8   | 11.8 |
| 12.5° | 12.4  | 10.9 | 10.5   | 10.5 | 10.7   | 10.9 |
| 15°   | 10.1  | 9.2  | 9.2    | 9.4  | 9.9    | 10.1 |
| 17.5° | 8.4   | 7.9  | 8.1    | 8.6  | 9.0    | 9.4  |
| 20°   | 6.9   | 6.9  | 7.3    | 7.9  | 8.6    | 9.0  |
| 22.5° | 5.8   | 6.0  | 6.6    | 7.3  | 8.1    | 8.6  |
| 25°   | 4.9   | 5.4  | 6.0    | 7.1  | 7.9    | 8.1  |
| 27.5° | 4.3   | 4.9  | 5.8    | 6.9  | 7.7    | 8.1  |
| 30°   | 3.6   | 4.5  | 5.6    | 6.6  | 7.7    | 8.1  |
| 31°   | 3.4   | 4.3  | 5.4    | 6.6  | 7.7    | 8.1  |
| 32°   | 3.2   | 4.3  | 5.4    | 6.6  | 7.7    | 8.1  |
| 33°   | 3.0   | 4.1  | 5.4    | 6.4  | 7.7    | 8.1  |
| 34°   | 2.8   | 4.1  | 5.4    | 6.6  | 7.7    | 8.1  |
| 35°   | 2.6   | 3.9  | 5.1    | 6.4  | 7.5    | 8.1  |
| 36°   | 2.4   | 3.9  | 5.1    | 6.4  | 7.7    | 8.1  |
| 37°   | 2.1   | 3.9  | 5.1    | 6.4  | 7.5    | 8.1  |
| 38°   | 2.1   | 3.6  | 4.9    | 6.4  | 7.5    | 8.1  |
| 39°   | 1.9   | 3.4  | 4.9    | 6.4  | 7.5    | 8.1  |
| 40°   | 1.7   | 3.4  | 4.7    | 6.2  | 7.5    | 8.1  |
| 41°   | 1.5   | 3.2  | 4.7    | 6.2  | 7.5    | 8.1  |
| 42°   | 1.3   | 3.2  | 4.7    | 6.2  | 7.5    | 8.1  |
| 43°   | 1.1   | 3.0  | 4.5    | 6.2  | 7.5    | 8.1  |
| 44°   | 1.1   | 3.0  | 4.5    | 6.2  | 7.5    | 8.1  |
| 45°   | 0.9   | 2.8  | 4.3    | 6.2  | 7.5    | 8.1  |
| 46°   | 0.9   | 2.8  | 4.3    | 6.0  | 7.5    | 8.1  |
| 47°   | 0.6   | 2.8  | 4.3    | 6.0  | 7.5    | 8.1  |
| 48°   | 0.6   | 2.6  | 4.3    | 6.0  | 7.5    | 8.1  |
| 49°   | 0.4   | 2.6  | 4.3    | 6.0  | 7.5    | 8.1  |
| 50°   | 0.4   | 2.6  | 4.1    | 6.0  | 7.5    | 8.1  |
| 51°   | 0.4   | 2.6  | 4.1    | 6.0  | 7.5    | 8.1  |
| 52°   | 0.4   | 2.4  | 4.1    | 6.0  | 7.5    | 8.1  |
| 53°   | 0.4   | 2.4  | 4.1    | 6.0  | 7.5    | 8.1  |
| 54°   | 0.4   | 2.4  | 3.9    | 6.0  | 7.5    | 8.1  |
| 55°   | 0.4   | 2.1  | 3.9    | 5.8  | 7.5    | 7.9  |
| 56°   | 0.4   | 2.1  | 3.9    | 5.8  | 7.5    | 7.9  |
| 57°   | 0.4   | 2.1  | 3.6    | 5.8  | 7.5    | 7.9  |
| 58°   | 0.4   | 1.9  | 3.6    | 5.6  | 7.3    | 7.9  |
| 59°   | 0.4   | 1.9  | 3.4    | 5.6  | 7.3    | 7.7  |
| 60°   | 0.4   | 1.7  | 3.4    | 5.4  | 7.1    | 7.7  |
| 62.5° | 0.4   | 1.5  | 3.0    | 5.1  | 6.9    | 7.3  |
| 65°   | 0.4   | 1.3  | 2.8    | 4.7  | 6.6    | 7.1  |



TEST NUMBER: P1305375

CATALOG NUMBER: P3SQAS02R159024DE010 E3SQCA451MMS

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.4   | 1.3 | 2.6    | 4.5  | 6.2    | 6.9  |
| 70°   | 0.4   | 1.3 | 2.4    | 4.1  | 6.0    | 6.2  |
| 72.5° | 0.6   | 1.3 | 2.1    | 3.9  | 5.6    | 5.8  |
| 75°   | 0.9   | 1.3 | 1.9    | 3.4  | 5.1    | 5.4  |
| 77.5° | 0.9   | 1.3 | 1.7    | 3.0  | 4.5    | 4.7  |
| 80°   | 0.9   | 1.1 | 1.5    | 2.4  | 3.6    | 3.9  |
| 82.5° | 0.9   | 1.1 | 1.1    | 1.9  | 2.8    | 3.0  |
| 85°   | 0.6   | 0.9 | 0.9    | 1.1  | 1.9    | 2.1  |
| 87.5° | 0.6   | 0.9 | 0.4    | 0.6  | 0.9    | 0.9  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)