

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: P1307649

Luminaire Tested: P3SQAS05R209030DE010 E3SQCA451MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307649  
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: P3SQAS05R209030DE010 E3SQCA451MMS  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

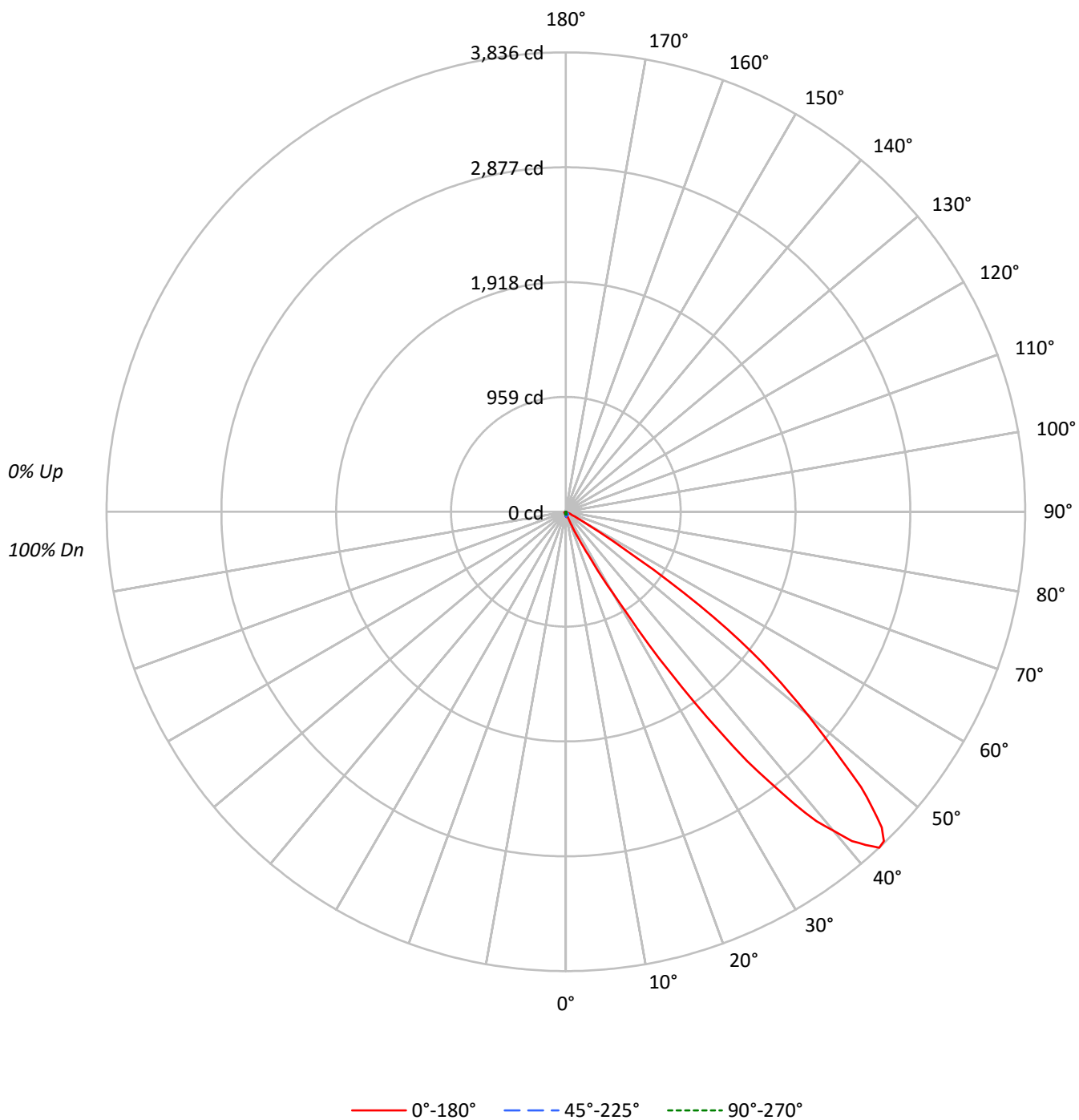
Lumens per Lamp: N/A  
Luminaire Lumens: 532.9 lumens  
Efficiency: N/A  
Efficacy: 74.0 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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  |
| 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°  | 6389   | 6389 | 6389 | 6389 | 6389 |
| 5°  | 7451   | 6933 | 5982 | 5204 | 5031 |
| 10° | 7362   | 6313 | 4722 | 4022 | 3935 |
| 15° | 6437   | 4814 | 3477 | 3209 | 3388 |
| 20° | 9549   | 4032 | 2566 | 2749 | 3024 |
| 25° | 41122  | 4181 | 1995 | 2470 | 2945 |
| 30° | 155493 | 5071 | 1690 | 2386 | 2884 |
| 35° | 471369 | 6118 | 1577 | 2418 | 3049 |
| 40° | 781634 | 6070 | 1349 | 2585 | 3260 |
| 45° | 908526 | 4141 | 1218 | 2679 | 3532 |
| 50° | 705248 | 2277 | 1206 | 2813 | 4019 |
| 55° | 408175 | 1501 | 1201 | 3153 | 4354 |
| 60° | 69027  | 344  | 1033 | 3272 | 4822 |
| 65° | 5298   | 0    | 1223 | 3668 | 5501 |
| 70° | 755    | 0    | 1511 | 4028 | 6294 |
| 75° | 665    | 333  | 1664 | 4658 | 7320 |
| 80° | 496    | 496  | 2479 | 4959 | 8430 |
| 85° | 988    | 988  | 3952 | 4940 | 8892 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 908526 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.2    | 0.6       |
| 10°-20°   | 6.7    | 1.3       |
| 20°-30°   | 21.3   | 4.0       |
| 30°-40°   | 135.9  | 25.5      |
| 40°-50°   | 248.8  | 46.7      |
| 50°-60°   | 102.2  | 19.2      |
| 60°-70°   | 8.6    | 1.6       |
| 70°-80°   | 4.3    | 0.8       |
| 80°-90°   | 2.0    | 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°    | 31.1   | 5.8       |
| 0°-40°    | 167.0  | 31.3      |
| 0°-60°    | 518.0  | 97.2      |
| 0°-90°    | 532.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 532.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 37   | 37  | 37  | 37   | 37   |      |
| 5°  | 43   | 40  | 35  | 30   | 29   | 4    |
| 15° | 36   | 27  | 20  | 18   | 19   | 11   |
| 25° | 216  | 22  | 10  | 13   | 16   | 142  |
| 35° | 2242 | 29  | 8   | 12   | 14   | 1419 |
| 45° | 3730 | 17  | 5   | 11   | 14   | 2678 |
| 55° | 1359 | 5   | 4   | 10   | 14   | 1188 |
| 65° | 13   | 0   | 3   | 9    | 14   | 42   |
| 75° | 1    | 0   | 2   | 7    | 11   | 1    |
| 85° | 0    | 0   | 2   | 2    | 4    | 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°    | 37.1   | 37.1   | 37.1   | 37.1   | 37.1   | 37.1   | 37.1   | 37.1   | 37.1  | 37.1  | 37.1 |
| 2.5°  | 40.6   | 40.6   | 40.6   | 40.1   | 40.1   | 40.6   | 40.1   | 40.1   | 40.1  | 40.1  | 39.6 |
| 5°    | 43.1   | 43.1   | 43.1   | 43.1   | 43.1   | 43.1   | 43.1   | 42.6   | 42.6  | 42.1  | 40.1 |
| 7.5°  | 44.1   | 44.1   | 44.1   | 44.1   | 43.6   | 43.6   | 43.6   | 43.6   | 43.1  | 42.6  | 39.1 |
| 10°   | 42.1   | 42.1   | 42.1   | 41.6   | 41.6   | 41.6   | 41.1   | 41.1   | 40.6  | 40.1  | 36.1 |
| 12.5° | 38.1   | 38.1   | 38.1   | 38.1   | 37.6   | 37.6   | 37.1   | 37.1   | 36.6  | 36.1  | 31.6 |
| 15°   | 36.1   | 36.1   | 36.1   | 35.6   | 35.6   | 35.1   | 34.6   | 34.1   | 33.6  | 32.6  | 27.0 |
| 17.5° | 39.1   | 39.1   | 38.6   | 38.6   | 37.6   | 36.6   | 36.1   | 34.6   | 33.6  | 32.1  | 24.0 |
| 20°   | 52.1   | 52.6   | 50.6   | 49.1   | 48.1   | 45.1   | 43.6   | 41.1   | 39.1  | 36.6  | 22.0 |
| 22.5° | 105.2  | 103.2  | 99.7   | 94.2   | 87.7   | 82.1   | 72.1   | 64.1   | 58.6  | 51.1  | 21.5 |
| 25°   | 216.4  | 214.4  | 204.9  | 196.9  | 176.8  | 161.3  | 139.7  | 122.2  | 104.2 | 86.7  | 22.0 |
| 27.5° | 411.2  | 397.7  | 395.2  | 358.6  | 330.6  | 290.5  | 248.9  | 213.9  | 181.8 | 146.3 | 23.5 |
| 30°   | 781.9  | 766.4  | 711.8  | 656.7  | 581.0  | 495.4  | 413.7  | 337.6  | 274.0 | 216.4 | 25.5 |
| 31°   | 992.3  | 1007.3 | 943.2  | 832.5  | 720.8  | 611.1  | 499.4  | 402.7  | 320.6 | 248.9 | 26.5 |
| 32°   | 1304.3 | 1238.7 | 1171.1 | 1057.4 | 895.1  | 754.8  | 614.6  | 475.3  | 367.2 | 284.0 | 27.5 |
| 33°   | 1599.4 | 1560.8 | 1457.6 | 1315.9 | 1121.0 | 924.2  | 742.3  | 561.0  | 424.3 | 326.6 | 28.1 |
| 34°   | 1913.9 | 1871.3 | 1787.7 | 1584.3 | 1370.4 | 1112.5 | 870.1  | 659.7  | 492.4 | 368.2 | 28.6 |
| 35°   | 2242.0 | 2224.0 | 2062.7 | 1886.4 | 1623.4 | 1312.3 | 1023.8 | 767.9  | 559.0 | 406.2 | 29.1 |
| 36°   | 2572.1 | 2514.0 | 2387.8 | 2130.3 | 1855.8 | 1497.2 | 1185.1 | 868.6  | 626.6 | 451.3 | 29.1 |
| 37°   | 2820.5 | 2807.5 | 2640.2 | 2389.3 | 2066.7 | 1694.5 | 1324.4 | 980.3  | 694.7 | 489.9 | 29.1 |
| 38°   | 3094.5 | 3042.9 | 2873.1 | 2617.7 | 2265.0 | 1875.4 | 1470.1 | 1077.4 | 759.4 | 524.9 | 28.6 |
| 39°   | 3325.4 | 3248.8 | 3077.5 | 2825.0 | 2438.4 | 2012.6 | 1585.8 | 1171.6 | 816.5 | 554.0 | 28.1 |
| 40°   | 3476.7 | 3423.6 | 3244.8 | 2960.8 | 2595.6 | 2142.3 | 1703.0 | 1249.2 | 859.0 | 576.0 | 27.0 |
| 41°   | 3643.5 | 3555.4 | 3378.5 | 3093.0 | 2709.8 | 2256.5 | 1776.7 | 1300.3 | 892.1 | 590.6 | 26.0 |
| 42°   | 3743.2 | 3671.1 | 3461.2 | 3181.7 | 2791.5 | 2321.6 | 1836.8 | 1339.4 | 912.1 | 598.1 | 24.0 |
| 43°   | 3836.4 | 3738.2 | 3533.8 | 3233.3 | 2845.6 | 2367.7 | 1864.3 | 1357.4 | 916.6 | 598.1 | 21.5 |
| 44°   | 3823.8 | 3730.7 | 3518.8 | 3240.3 | 2857.6 | 2381.3 | 1875.9 | 1357.9 | 909.6 | 590.6 | 19.0 |
| 45°   | 3730.2 | 3637.5 | 3446.7 | 3179.2 | 2814.5 | 2354.7 | 1852.8 | 1337.9 | 890.1 | 577.5 | 17.0 |
| 46°   | 3558.4 | 3466.2 | 3319.9 | 3077.0 | 2734.4 | 2294.6 | 1799.2 | 1294.3 | 857.5 | 556.5 | 15.0 |
| 47°   | 3371.5 | 3281.9 | 3132.1 | 2912.2 | 2597.6 | 2187.4 | 1721.6 | 1233.2 | 812.0 | 525.9 | 13.5 |
| 48°   | 3100.5 | 3044.4 | 2894.2 | 2706.3 | 2407.8 | 2019.6 | 1585.3 | 1133.5 | 750.8 | 486.4 | 11.5 |
| 49°   | 2861.1 | 2802.0 | 2670.3 | 2468.4 | 2160.4 | 1824.3 | 1422.5 | 1012.3 | 671.2 | 442.3 | 10.0 |
| 50°   | 2632.2 | 2580.6 | 2458.9 | 2231.0 | 1937.0 | 1588.3 | 1202.6 | 859.5  | 571.0 | 387.7 | 8.5  |
| 51°   | 2408.3 | 2369.7 | 2245.5 | 2036.1 | 1737.6 | 1407.0 | 1041.9 | 715.8  | 471.8 | 321.6 | 8.0  |
| 52°   | 2183.4 | 2178.9 | 2044.2 | 1832.3 | 1543.8 | 1226.2 | 885.6  | 604.1  | 400.2 | 270.0 | 7.5  |
| 53°   | 1941.5 | 1912.4 | 1794.7 | 1604.4 | 1327.4 | 1037.9 | 750.8  | 509.4  | 344.6 | 229.9 | 6.5  |
| 54°   | 1666.0 | 1633.4 | 1507.2 | 1335.4 | 1084.4 | 850.0  | 605.1  | 411.7  | 287.0 | 194.3 | 6.0  |
| 55°   | 1359.4 | 1303.8 | 1212.2 | 1035.9 | 847.0  | 648.7  | 467.3  | 326.1  | 229.4 | 161.8 | 5.0  |
| 56°   | 1031.3 | 975.7  | 924.2  | 794.4  | 621.6  | 483.9  | 348.1  | 249.9  | 179.3 | 127.7 | 4.5  |
| 57°   | 717.3  | 714.3  | 629.6  | 529.9  | 415.7  | 329.6  | 238.4  | 176.3  | 126.7 | 99.2  | 3.5  |
| 58°   | 465.3  | 449.8  | 395.7  | 338.1  | 272.0  | 205.9  | 153.3  | 119.7  | 86.2  | 67.6  | 3.0  |
| 59°   | 326.1  | 295.0  | 266.0  | 225.4  | 171.3  | 129.7  | 98.7   | 76.6   | 59.6  | 47.1  | 2.0  |
| 60°   | 200.4  | 193.8  | 174.3  | 137.2  | 111.2  | 91.7   | 73.6   | 56.6   | 43.6  | 33.6  | 1.0  |
| 62.5° | 57.1   | 58.1   | 52.6   | 46.6   | 40.1   | 34.6   | 31.1   | 26.5   | 22.0  | 17.5  | 0.0  |
| 65°   | 13.0   | 12.5   | 13.5   | 12.5   | 11.5   | 11.5   | 10.0   | 9.0    | 8.0   | 7.5   | 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° | 4.0 | 4.0  | 3.5 | 3.5  | 3.5 | 3.0   | 3.0 | 2.5   | 2.5 | 2.0   | 0.0 |
| 70°   | 1.5 | 1.5  | 1.5 | 1.5  | 1.5 | 1.0   | 1.0 | 1.0   | 0.5 | 0.5   | 0.0 |
| 72.5° | 1.5 | 1.5  | 1.5 | 1.0  | 1.0 | 1.0   | 1.0 | 1.0   | 0.5 | 0.5   | 0.5 |
| 75°   | 1.0 | 1.0  | 1.0 | 1.0  | 1.0 | 1.0   | 1.0 | 0.5   | 0.5 | 0.5   | 0.5 |
| 77.5° | 1.0 | 1.0  | 1.0 | 1.0  | 1.0 | 0.5   | 1.0 | 0.5   | 0.5 | 0.5   | 0.5 |
| 80°   | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 82.5° | 0.5 | 0.5  | 0.5 | 0.5  | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 | 0.5   | 0.5 |
| 85°   | 0.5 | 0.5  | 0.5 | 0.5  | 0.0 | 0.0   | 0.5 | 0.5   | 0.5 | 0.0   | 0.5 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.5 |
| 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°    | 37.1  | 37.1 | 37.1   | 37.1 | 37.1   | 37.1 |
| 2.5°  | 38.6  | 36.6 | 35.1   | 33.6 | 33.1   | 33.1 |
| 5°    | 37.6  | 34.6 | 31.6   | 30.1 | 29.1   | 29.1 |
| 7.5°  | 34.6  | 31.1 | 28.1   | 26.5 | 26.0   | 26.0 |
| 10°   | 31.1  | 27.0 | 24.0   | 23.0 | 23.0   | 22.5 |
| 12.5° | 27.0  | 23.0 | 21.0   | 20.5 | 20.5   | 20.5 |
| 15°   | 22.5  | 19.5 | 18.0   | 18.0 | 18.5   | 19.0 |
| 17.5° | 19.0  | 16.0 | 15.5   | 16.5 | 17.5   | 17.5 |
| 20°   | 16.0  | 14.0 | 14.0   | 15.0 | 16.0   | 16.5 |
| 22.5° | 13.5  | 12.0 | 12.5   | 14.0 | 15.5   | 16.0 |
| 25°   | 12.0  | 10.5 | 11.5   | 13.0 | 14.5   | 15.5 |
| 27.5° | 10.0  | 9.5  | 10.5   | 12.5 | 14.5   | 15.0 |
| 30°   | 8.5   | 8.5  | 10.0   | 12.0 | 14.0   | 14.5 |
| 31°   | 8.0   | 8.0  | 10.0   | 12.0 | 14.0   | 14.5 |
| 32°   | 7.5   | 8.0  | 9.5    | 12.0 | 14.0   | 14.5 |
| 33°   | 7.0   | 7.5  | 9.5    | 11.5 | 14.0   | 14.5 |
| 34°   | 6.5   | 7.5  | 9.5    | 11.5 | 14.0   | 14.5 |
| 35°   | 6.0   | 7.5  | 9.5    | 11.5 | 14.0   | 14.5 |
| 36°   | 5.5   | 7.0  | 9.0    | 11.5 | 14.0   | 14.5 |
| 37°   | 5.0   | 7.0  | 9.0    | 11.5 | 14.0   | 14.5 |
| 38°   | 4.5   | 6.5  | 9.0    | 11.5 | 14.0   | 14.5 |
| 39°   | 4.5   | 6.5  | 8.5    | 11.5 | 13.5   | 14.5 |
| 40°   | 4.0   | 6.0  | 8.5    | 11.5 | 13.5   | 14.5 |
| 41°   | 3.5   | 6.0  | 8.5    | 11.0 | 13.5   | 14.5 |
| 42°   | 3.0   | 5.5  | 8.0    | 11.0 | 13.5   | 14.5 |
| 43°   | 2.5   | 5.5  | 8.0    | 11.0 | 13.5   | 14.5 |
| 44°   | 2.5   | 5.0  | 8.0    | 11.0 | 13.5   | 14.5 |
| 45°   | 2.0   | 5.0  | 8.0    | 11.0 | 13.5   | 14.5 |
| 46°   | 1.5   | 5.0  | 8.0    | 11.0 | 13.5   | 14.5 |
| 47°   | 1.5   | 4.5  | 7.5    | 11.0 | 13.5   | 14.5 |
| 48°   | 1.0   | 4.5  | 7.5    | 11.0 | 13.5   | 14.5 |
| 49°   | 1.0   | 4.5  | 7.5    | 11.0 | 13.5   | 15.0 |
| 50°   | 1.0   | 4.5  | 7.5    | 10.5 | 13.5   | 15.0 |
| 51°   | 0.5   | 4.5  | 7.5    | 10.5 | 13.5   | 15.0 |
| 52°   | 0.5   | 4.5  | 7.0    | 10.5 | 14.0   | 15.0 |
| 53°   | 0.5   | 4.0  | 7.0    | 10.5 | 14.0   | 15.0 |
| 54°   | 0.5   | 4.0  | 7.0    | 10.5 | 14.0   | 14.5 |
| 55°   | 0.5   | 4.0  | 7.0    | 10.5 | 13.5   | 14.5 |
| 56°   | 0.5   | 3.5  | 7.0    | 10.5 | 13.5   | 14.5 |
| 57°   | 0.5   | 3.5  | 6.5    | 10.0 | 13.5   | 14.0 |
| 58°   | 0.5   | 3.5  | 6.5    | 10.0 | 13.5   | 14.0 |
| 59°   | 0.5   | 3.5  | 6.5    | 10.0 | 13.0   | 14.0 |
| 60°   | 1.0   | 3.0  | 6.0    | 9.5  | 13.0   | 14.0 |
| 62.5° | 1.0   | 3.0  | 6.0    | 9.5  | 12.5   | 13.5 |
| 65°   | 1.0   | 3.0  | 5.5    | 9.0  | 12.5   | 13.5 |



TEST NUMBER: P1307649

CATALOG NUMBER: P3SQAS05R209030DE010 E3SQCA451MMS

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 1.0   | 2.5 | 5.0    | 8.5  | 12.0   | 13.0 |
| 70°   | 1.0   | 3.0 | 5.0    | 8.0  | 11.5   | 12.5 |
| 72.5° | 1.5   | 2.5 | 4.5    | 7.5  | 11.0   | 12.0 |
| 75°   | 1.5   | 2.5 | 4.5    | 7.0  | 10.5   | 11.0 |
| 77.5° | 2.0   | 2.5 | 4.0    | 6.0  | 9.5    | 10.0 |
| 80°   | 2.0   | 2.5 | 3.5    | 5.0  | 8.0    | 8.5  |
| 82.5° | 2.0   | 2.5 | 2.5    | 4.0  | 6.0    | 6.5  |
| 85°   | 1.5   | 2.0 | 2.0    | 2.5  | 4.0    | 4.5  |
| 87.5° | 1.5   | 2.0 | 1.5    | 1.0  | 2.0    | 2.0  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)