

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: P1315533

Luminaire Tested: P3SQAS17R409740DE010 E3SQCA451MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315533  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS17R409740DE010 E3SQCA451MMS  
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 97CRI , E3SQCA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

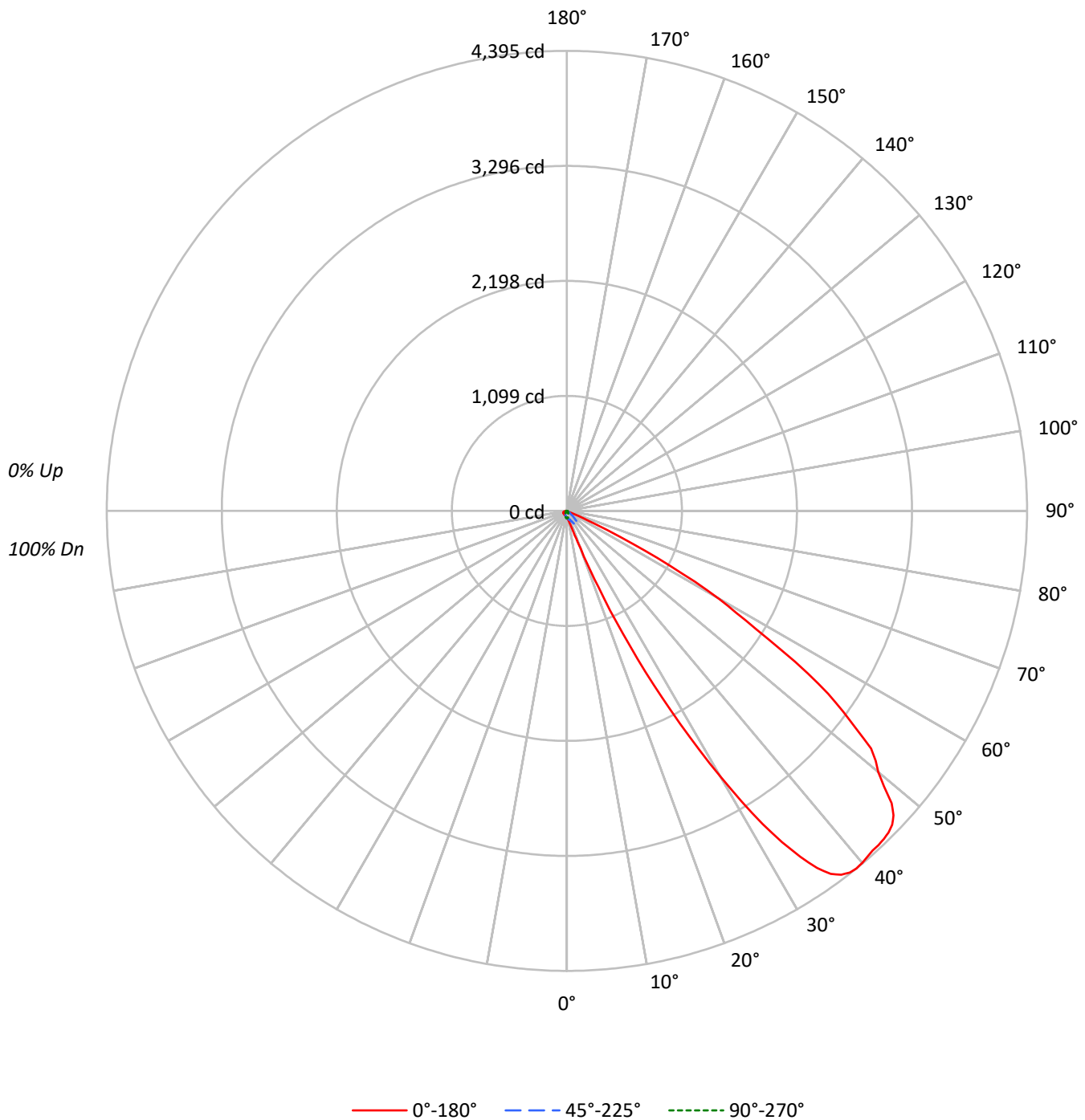
Lumens per Lamp: N/A  
Luminaire Lumens: 1357.9 lumens  
Efficiency: N/A  
Efficacy: 64.1 lumens/watt  
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
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

TEST NUMBER: P1315533

CATALOG NUMBER: P3SQAS17R409740DE010 E3SQCA451MMS

### Luminous Intensity Polar Plot



TEST NUMBER: P1315533

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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  | 99  | 97  | 94  |  | 96  | 93  | 91  |  | 92  | 90  | 88  | 86  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  |  | 84  | 80  | 76  |  | 81  | 78  | 75  | 72  |
| 3   | 91  | 81  | 73  | 66  | 89  | 79  | 72  | 66  | 76  | 70  | 65  |  | 73  | 68  | 64  |  | 71  | 66  | 62  | 60  |
| 4   | 82  | 70  | 62  | 55  | 80  | 69  | 61  | 54  | 67  | 59  | 54  |  | 64  | 58  | 53  |  | 62  | 57  | 52  | 50  |
| 5   | 75  | 62  | 52  | 46  | 73  | 60  | 52  | 45  | 58  | 51  | 45  |  | 56  | 50  | 44  |  | 54  | 49  | 44  | 42  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 38  |  | 50  | 43  | 37  |  | 48  | 42  | 37  | 35  |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 32  |  | 44  | 37  | 31  |  | 42  | 36  | 31  | 29  |
| 8   | 57  | 42  | 33  | 27  | 55  | 42  | 33  | 27  | 40  | 32  | 27  |  | 39  | 32  | 27  |  | 38  | 31  | 26  | 24  |
| 9   | 52  | 38  | 29  | 23  | 51  | 37  | 29  | 23  | 36  | 28  | 23  |  | 35  | 28  | 23  |  | 34  | 27  | 23  | 21  |
| 10  | 48  | 34  | 25  | 20  | 47  | 33  | 25  | 20  | 32  | 25  | 20  |  | 31  | 24  | 20  |  | 30  | 24  | 19  | 18  |

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

|     | 0°      | 45°   | 90°   | 135°  | 180°  |
|-----|---------|-------|-------|-------|-------|
| 0°  | 12021   | 12021 | 12021 | 12021 | 12021 |
| 5°  | 13364   | 12931 | 11860 | 10788 | 10563 |
| 10° | 16141   | 13746 | 10912 | 9811  | 9601  |
| 15° | 26459   | 14906 | 9343  | 8665  | 8897  |
| 20° | 69938   | 17594 | 7771  | 7771  | 8449  |
| 25° | 269686  | 21796 | 6157  | 7107  | 8285  |
| 30° | 581841  | 29014 | 4952  | 6940  | 8193  |
| 35° | 875755  | 34354 | 4205  | 6812  | 8389  |
| 40° | 986671  | 34487 | 3642  | 7014  | 8970  |
| 45° | 1057974 | 26718 | 3337  | 7282  | 9718  |
| 50° | 1039866 | 16719 | 3001  | 7690  | 10690 |
| 55° | 914805  | 8227  | 3003  | 8617  | 11980 |
| 60° | 579047  | 1722  | 3444  | 9438  | 13330 |
| 65° | 118423  | 489   | 3545  | 10147 | 14752 |
| 70° | 2518    | 604   | 3777  | 11279 | 16969 |
| 75° | 2462    | 1664  | 4126  | 12443 | 19097 |
| 80° | 2479    | 1190  | 4959  | 13588 | 22216 |
| 85° | 2371    | 2371  | 9880  | 14820 | 24700 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 1077076 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 6.5    | 0.5       |
| 10°-20°   | 21.5   | 1.6       |
| 20°-30°   | 105.5  | 7.8       |
| 30°-40°   | 343.1  | 25.3      |
| 40°-50°   | 473.0  | 34.8      |
| 50°-60°   | 329.5  | 24.3      |
| 60°-70°   | 62.4   | 4.6       |
| 70°-80°   | 11.3   | 0.8       |
| 80°-90°   | 5.2    | 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°    | 133.5  | 9.8       |
| 0°-40°    | 476.6  | 35.1      |
| 0°-60°    | 1279.0 | 94.2      |
| 0°-90°    | 1357.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1357.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 70   | 70  | 70  | 70   | 70   |      |
| 5°  | 77   | 75  | 69  | 62   | 61   | 8    |
| 15° | 148  | 84  | 52  | 49   | 50   | 54   |
| 25° | 1419 | 115 | 32  | 37   | 44   | 731  |
| 35° | 4165 | 163 | 20  | 32   | 40   | 2517 |
| 45° | 4344 | 110 | 14  | 30   | 40   | 3303 |
| 55° | 3047 | 27  | 10  | 29   | 40   | 2604 |
| 65° | 291  | 1   | 9   | 25   | 36   | 514  |
| 75° | 4    | 2   | 6   | 19   | 29   | 4    |
| 85° | 1    | 1   | 5   | 8    | 12   | 1    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°   | 45°   | 67.5° | 90°  |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|
| 0°    | 69.8   | 69.8   | 69.8   | 69.8   | 69.8   | 69.8   | 69.8   | 69.8  | 69.8  | 69.8  | 69.8 |
| 2.5°  | 72.3   | 72.3   | 72.3   | 72.3   | 72.3   | 72.3   | 72.3   | 72.3  | 72.3  | 71.1  | 69.8 |
| 5°    | 77.3   | 77.3   | 77.3   | 77.3   | 76.1   | 76.1   | 76.1   | 74.8  | 74.8  | 72.3  | 68.6 |
| 7.5°  | 82.3   | 82.3   | 82.3   | 82.3   | 81.1   | 79.8   | 78.6   | 78.6  | 77.3  | 71.1  | 66.1 |
| 10°   | 92.3   | 92.3   | 91.0   | 89.8   | 88.5   | 86.1   | 84.8   | 82.3  | 78.6  | 69.8  | 62.4 |
| 12.5° | 112.2  | 109.7  | 108.5  | 106.0  | 102.3  | 97.3   | 92.3   | 88.5  | 79.8  | 67.3  | 58.6 |
| 15°   | 148.4  | 145.9  | 140.9  | 133.4  | 126.0  | 116.0  | 107.3  | 98.5  | 83.6  | 63.6  | 52.4 |
| 17.5° | 212.0  | 204.5  | 197.0  | 184.6  | 165.9  | 148.4  | 129.7  | 113.5 | 88.5  | 59.9  | 47.4 |
| 20°   | 381.6  | 376.6  | 331.7  | 296.8  | 240.7  | 200.8  | 163.4  | 135.9 | 96.0  | 56.1  | 42.4 |
| 22.5° | 786.9  | 734.6  | 661.0  | 541.3  | 421.5  | 310.5  | 225.7  | 170.9 | 103.5 | 51.1  | 37.4 |
| 25°   | 1419.2 | 1336.9 | 1178.5 | 947.8  | 699.6  | 495.1  | 326.7  | 223.2 | 114.7 | 46.1  | 32.4 |
| 27.5° | 2148.8 | 2065.3 | 1819.6 | 1501.5 | 1096.2 | 747.0  | 466.4  | 295.6 | 129.7 | 41.2  | 28.7 |
| 30°   | 2925.8 | 2854.7 | 2542.9 | 2102.7 | 1545.2 | 1046.3 | 624.8  | 369.2 | 145.9 | 36.2  | 24.9 |
| 31°   | 3238.8 | 3147.8 | 2811.0 | 2342.1 | 1756.0 | 1169.8 | 688.4  | 400.3 | 152.2 | 34.9  | 23.7 |
| 32°   | 3526.9 | 3423.4 | 3074.2 | 2571.6 | 1926.8 | 1303.3 | 758.3  | 427.8 | 157.1 | 32.4  | 22.4 |
| 33°   | 3775.1 | 3654.1 | 3317.4 | 2788.6 | 2115.1 | 1428.0 | 830.6  | 454.0 | 160.9 | 29.9  | 21.2 |
| 34°   | 3985.8 | 3881.1 | 3519.4 | 3006.8 | 2282.3 | 1547.7 | 901.7  | 480.1 | 163.4 | 28.7  | 20.0 |
| 35°   | 4165.4 | 4070.6 | 3712.7 | 3172.7 | 2445.6 | 1663.7 | 966.5  | 505.1 | 163.4 | 26.2  | 20.0 |
| 36°   | 4286.4 | 4204.1 | 3879.8 | 3342.3 | 2582.8 | 1762.2 | 1021.4 | 527.5 | 163.4 | 23.7  | 18.7 |
| 37°   | 4352.5 | 4272.7 | 3989.6 | 3482.0 | 2717.5 | 1859.5 | 1071.3 | 545.0 | 162.1 | 22.4  | 17.5 |
| 38°   | 4386.2 | 4316.3 | 4070.6 | 3595.5 | 2811.0 | 1929.3 | 1114.9 | 558.7 | 160.9 | 20.0  | 17.5 |
| 39°   | 4394.9 | 4336.3 | 4121.8 | 3677.8 | 2902.1 | 1999.2 | 1146.1 | 566.2 | 157.1 | 18.7  | 16.2 |
| 40°   | 4388.7 | 4337.5 | 4149.2 | 3751.4 | 2971.9 | 2054.0 | 1168.6 | 568.7 | 153.4 | 16.2  | 16.2 |
| 41°   | 4376.2 | 4336.3 | 4169.2 | 3802.5 | 3028.0 | 2088.9 | 1177.3 | 563.7 | 148.4 | 13.7  | 15.0 |
| 42°   | 4365.0 | 4321.3 | 4177.9 | 3837.4 | 3066.7 | 2106.4 | 1176.0 | 553.7 | 140.9 | 12.5  | 15.0 |
| 43°   | 4365.0 | 4315.1 | 4179.1 | 3859.9 | 3085.4 | 2107.7 | 1161.1 | 535.0 | 130.9 | 11.2  | 13.7 |
| 44°   | 4357.5 | 4311.3 | 4185.4 | 3874.8 | 3090.4 | 2096.4 | 1137.4 | 515.1 | 119.7 | 10.0  | 13.7 |
| 45°   | 4343.8 | 4295.1 | 4184.1 | 3876.1 | 3081.7 | 2069.0 | 1098.7 | 488.9 | 109.7 | 7.5   | 13.7 |
| 46°   | 4317.6 | 4273.9 | 4172.9 | 3867.4 | 3055.5 | 2029.1 | 1052.6 | 462.7 | 98.5  | 6.2   | 12.5 |
| 47°   | 4265.2 | 4231.5 | 4143.0 | 3837.4 | 3015.6 | 1970.5 | 997.7  | 432.8 | 89.8  | 5.0   | 12.5 |
| 48°   | 4175.4 | 4151.7 | 4091.8 | 3771.3 | 2939.5 | 1898.1 | 939.1  | 400.3 | 81.1  | 5.0   | 12.5 |
| 49°   | 4010.8 | 3992.1 | 3957.2 | 3665.3 | 2842.2 | 1809.6 | 875.5  | 364.2 | 72.3  | 3.7   | 12.5 |
| 50°   | 3881.1 | 3861.1 | 3790.0 | 3487.0 | 2702.5 | 1697.3 | 805.6  | 328.0 | 62.4  | 2.5   | 11.2 |
| 51°   | 3795.0 | 3762.6 | 3650.4 | 3280.0 | 2499.3 | 1547.7 | 729.6  | 291.8 | 52.4  | 2.5   | 11.2 |
| 52°   | 3686.5 | 3637.9 | 3498.2 | 3094.1 | 2313.4 | 1398.0 | 647.3  | 255.7 | 46.1  | 2.5   | 11.2 |
| 53°   | 3459.6 | 3442.1 | 3303.7 | 2894.6 | 2127.6 | 1254.6 | 562.5  | 225.7 | 39.9  | 2.5   | 11.2 |
| 54°   | 3261.3 | 3235.1 | 3046.7 | 2617.7 | 1925.6 | 1095.0 | 475.2  | 199.5 | 33.7  | 2.5   | 11.2 |
| 55°   | 3046.7 | 2995.6 | 2828.5 | 2384.5 | 1688.6 | 947.8  | 391.6  | 172.1 | 27.4  | 2.5   | 10.0 |
| 56°   | 2776.1 | 2731.2 | 2551.6 | 2135.1 | 1470.4 | 798.2  | 328.0  | 140.9 | 21.2  | 2.5   | 10.0 |
| 57°   | 2446.9 | 2405.7 | 2267.3 | 1828.3 | 1243.4 | 652.3  | 266.9  | 113.5 | 16.2  | 2.5   | 10.0 |
| 58°   | 2128.9 | 2082.7 | 1924.3 | 1534.0 | 1003.9 | 517.6  | 223.2  | 92.3  | 12.5  | 2.5   | 10.0 |
| 59°   | 1884.4 | 1822.1 | 1617.5 | 1288.3 | 785.7  | 392.8  | 177.1  | 73.6  | 8.7   | 2.5   | 10.0 |
| 60°   | 1681.1 | 1630.0 | 1418.0 | 1072.5 | 616.1  | 289.3  | 130.9  | 56.1  | 5.0   | 2.5   | 10.0 |
| 62.5° | 974.0  | 960.3  | 769.5  | 552.5  | 290.6  | 134.7  | 64.9   | 26.2  | 2.5   | 3.7   | 10.0 |
| 65°   | 290.6  | 253.2  | 197.0  | 117.2  | 74.8   | 44.9   | 23.7   | 8.7   | 1.2   | 3.7   | 8.7  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 67.5° | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 5.0 | 2.5 | 1.2 | 3.7   | 8.7 |
| 70°   | 5.0 | 3.7 | 3.7 | 3.7 | 3.7 | 2.5 | 2.5 | 1.2 | 1.2 | 3.7   | 7.5 |
| 72.5° | 3.7 | 3.7 | 3.7 | 3.7 | 2.5 | 2.5 | 2.5 | 1.2 | 2.5 | 3.7   | 6.2 |
| 75°   | 3.7 | 2.5 | 2.5 | 2.5 | 2.5 | 1.2 | 1.2 | 1.2 | 2.5 | 3.7   | 6.2 |
| 77.5° | 2.5 | 2.5 | 2.5 | 2.5 | 1.2 | 1.2 | 1.2 | 1.2 | 2.5 | 3.7   | 6.2 |
| 80°   | 2.5 | 2.5 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 3.7   | 5.0 |
| 82.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 3.7   | 5.0 |
| 85°   | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 3.7   | 5.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 3.7   | 3.7 |
| 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):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0°    | 69.8   | 69.8 | 69.8   | 69.8 |
| 2.5°  | 67.3   | 66.1 | 64.9   | 64.9 |
| 5°    | 64.9   | 62.4 | 62.4   | 61.1 |
| 7.5°  | 61.1   | 58.6 | 58.6   | 58.6 |
| 10°   | 57.4   | 56.1 | 56.1   | 54.9 |
| 12.5° | 52.4   | 52.4 | 52.4   | 52.4 |
| 15°   | 48.6   | 48.6 | 49.9   | 49.9 |
| 17.5° | 43.6   | 44.9 | 47.4   | 48.6 |
| 20°   | 39.9   | 42.4 | 44.9   | 46.1 |
| 22.5° | 37.4   | 39.9 | 43.6   | 44.9 |
| 25°   | 33.7   | 37.4 | 42.4   | 43.6 |
| 27.5° | 31.2   | 36.2 | 39.9   | 42.4 |
| 30°   | 28.7   | 34.9 | 38.7   | 41.2 |
| 31°   | 28.7   | 33.7 | 38.7   | 41.2 |
| 32°   | 27.4   | 32.4 | 38.7   | 39.9 |
| 33°   | 27.4   | 32.4 | 38.7   | 39.9 |
| 34°   | 26.2   | 32.4 | 37.4   | 39.9 |
| 35°   | 26.2   | 32.4 | 37.4   | 39.9 |
| 36°   | 24.9   | 31.2 | 37.4   | 39.9 |
| 37°   | 24.9   | 31.2 | 37.4   | 39.9 |
| 38°   | 23.7   | 31.2 | 37.4   | 39.9 |
| 39°   | 23.7   | 31.2 | 37.4   | 39.9 |
| 40°   | 23.7   | 31.2 | 37.4   | 39.9 |
| 41°   | 22.4   | 31.2 | 37.4   | 39.9 |
| 42°   | 22.4   | 31.2 | 37.4   | 39.9 |
| 43°   | 22.4   | 29.9 | 37.4   | 39.9 |
| 44°   | 22.4   | 29.9 | 37.4   | 39.9 |
| 45°   | 21.2   | 29.9 | 37.4   | 39.9 |
| 46°   | 21.2   | 29.9 | 37.4   | 39.9 |
| 47°   | 21.2   | 29.9 | 37.4   | 39.9 |
| 48°   | 21.2   | 29.9 | 37.4   | 39.9 |
| 49°   | 21.2   | 29.9 | 37.4   | 39.9 |
| 50°   | 20.0   | 28.7 | 37.4   | 39.9 |
| 51°   | 20.0   | 28.7 | 37.4   | 39.9 |
| 52°   | 20.0   | 28.7 | 37.4   | 39.9 |
| 53°   | 20.0   | 28.7 | 37.4   | 39.9 |
| 54°   | 18.7   | 28.7 | 37.4   | 39.9 |
| 55°   | 18.7   | 28.7 | 37.4   | 39.9 |
| 56°   | 18.7   | 28.7 | 37.4   | 38.7 |
| 57°   | 18.7   | 28.7 | 36.2   | 38.7 |
| 58°   | 18.7   | 27.4 | 36.2   | 38.7 |
| 59°   | 18.7   | 27.4 | 36.2   | 38.7 |
| 60°   | 18.7   | 27.4 | 36.2   | 38.7 |
| 62.5° | 17.5   | 27.4 | 34.9   | 37.4 |
| 65°   | 16.2   | 24.9 | 34.9   | 36.2 |



TEST NUMBER: P1315533

CATALOG NUMBER: P3SQAS17R409740DE010 E3SQCA451MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 67.5° | 16.2   | 23.7 | 32.4   | 34.9 |
| 70°   | 15.0   | 22.4 | 31.2   | 33.7 |
| 72.5° | 12.5   | 21.2 | 28.7   | 31.2 |
| 75°   | 11.2   | 18.7 | 26.2   | 28.7 |
| 77.5° | 10.0   | 16.2 | 23.7   | 24.9 |
| 80°   | 8.7    | 13.7 | 20.0   | 22.4 |
| 82.5° | 6.2    | 10.0 | 16.2   | 17.5 |
| 85°   | 5.0    | 7.5  | 11.2   | 12.5 |
| 87.5° | 3.7    | 3.7  | 6.2    | 6.2  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)