

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: P1307682

Luminaire Tested: P3SQAS05R309030DE010 E3SQCA451MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307682  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS05R309030DE010 E3SQCA451MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 90CRI , E3SQCA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

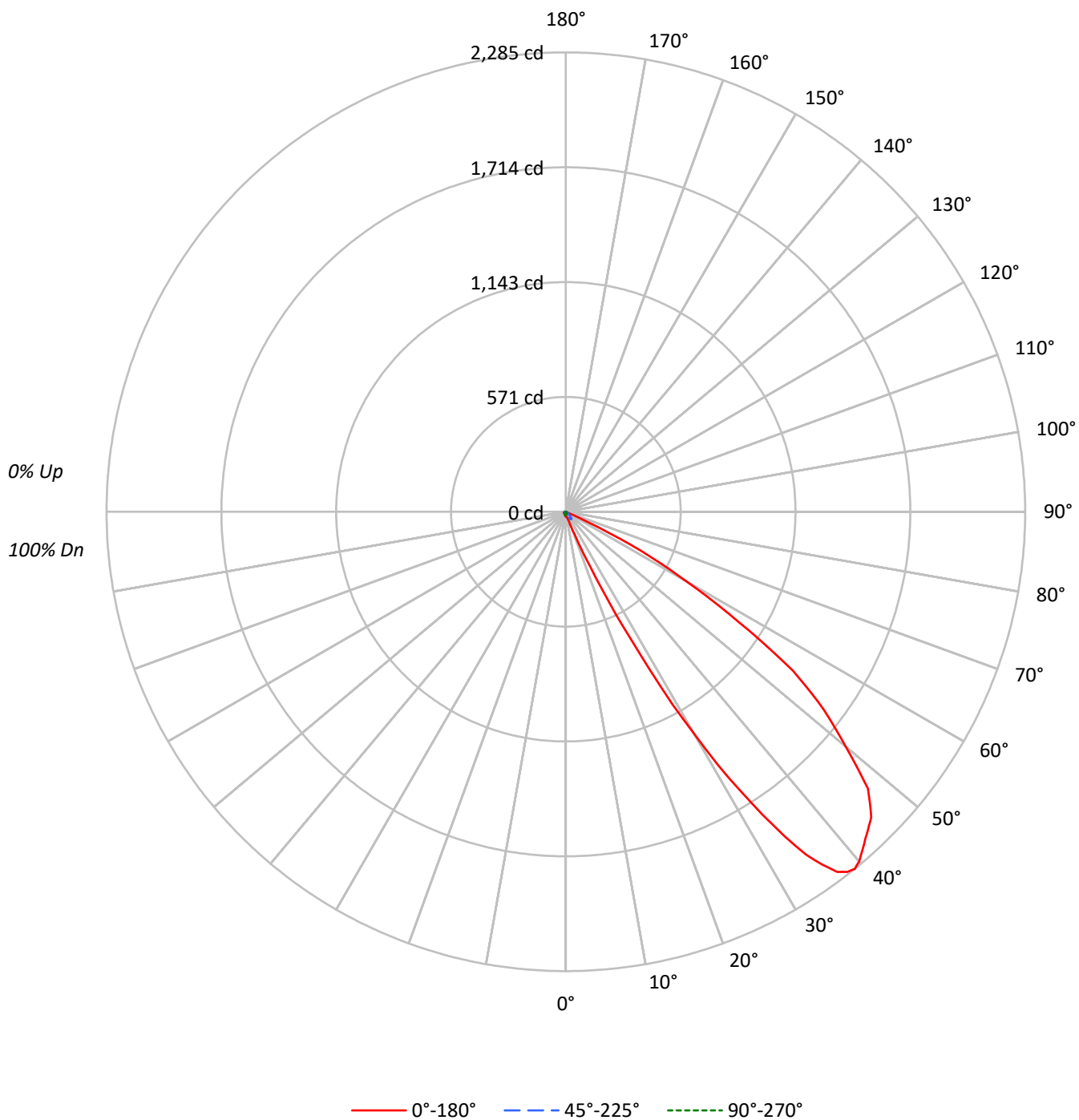
Lumens per Lamp: N/A  
Luminaire Lumens: 594.0 lumens  
Efficiency: N/A  
Efficacy: 82.5 lumens/watt  
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 52  |
| 5   | 75  | 62  | 52  | 46  | 73  | 60  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 54  | 49  | 44  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 42  | 37  |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 36  | 31  |
| 8   | 56  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 26  | 39  | 32  | 26  | 37  | 31  | 26  |
| 9   | 52  | 37  | 29  | 23  | 50  | 37  | 28  | 23  | 36  | 28  | 22  | 34  | 27  | 22  | 33  | 27  | 22  |
| 10  | 48  | 33  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 24  | 19  | 31  | 24  | 19  | 30  | 24  | 19  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 3961   | 3961 | 3961 | 3961 | 3961 |
| 5°  | 4236   | 4149 | 3890 | 3544 | 3458 |
| 10° | 4634   | 4110 | 3410 | 3060 | 2973 |
| 15° | 6775   | 4101 | 2853 | 2585 | 2674 |
| 20° | 17063  | 4490 | 2199 | 2199 | 2474 |
| 25° | 79203  | 5606 | 1710 | 1995 | 2280 |
| 30° | 252142 | 7756 | 1293 | 1889 | 2287 |
| 35° | 437520 | 9461 | 1051 | 1787 | 2313 |
| 40° | 510253 | 9442 | 787  | 1799 | 2361 |
| 45° | 523288 | 6698 | 852  | 1948 | 2557 |
| 50° | 486643 | 3751 | 670  | 2009 | 2947 |
| 55° | 413610 | 1952 | 751  | 2252 | 3303 |
| 60° | 238873 | 517  | 861  | 2411 | 3617 |
| 65° | 48739  | 0    | 1019 | 2853 | 4075 |
| 70° | 755    | 252  | 1259 | 3273 | 4784 |
| 75° | 665    | 333  | 1331 | 3327 | 5656 |
| 80° | 496    | 496  | 1984 | 3967 | 6447 |
| 85° | 0      | 988  | 3952 | 3952 | 7904 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 523288 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.1    | 0.3       |
| 10°-20°   | 6.0    | 1.0       |
| 20°-30°   | 34.3   | 5.8       |
| 30°-40°   | 160.0  | 26.9      |
| 40°-50°   | 226.2  | 38.1      |
| 50°-60°   | 139.2  | 23.4      |
| 60°-70°   | 21.2   | 3.6       |
| 70°-80°   | 3.4    | 0.6       |
| 80°-90°   | 1.7    | 0.3       |
| 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°    | 42.3   | 7.1       |
| 0°-40°    | 202.3  | 34.1      |
| 0°-60°    | 567.7  | 95.6      |
| 0°-90°    | 594.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 594.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 23   | 23  | 23  | 23   | 23   |      |
| 5°  | 24   | 24  | 22  | 20   | 20   | 2    |
| 15° | 38   | 23  | 16  | 14   | 15   | 14   |
| 25° | 417  | 30  | 9   | 10   | 12   | 256  |
| 35° | 2081 | 45  | 5   | 8    | 11   | 1249 |
| 45° | 2148 | 28  | 4   | 8    | 10   | 1629 |
| 55° | 1378 | 6   | 2   | 8    | 11   | 1172 |
| 65° | 120  | 0   | 2   | 7    | 10   | 216  |
| 75° | 1    | 0   | 2   | 5    | 8    | 1    |
| 85° | 0    | 0   | 2   | 2    | 4    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 45°  | 67.5° | 90°  | 112.5° | 135° |
|-------|--------|--------|--------|--------|--------|--------|------|-------|------|--------|------|
| 0°    | 23.0   | 23.0   | 23.0   | 23.0   | 23.0   | 23.0   | 23.0 | 23.0  | 23.0 | 23.0   | 23.0 |
| 2.5°  | 23.5   | 23.5   | 24.0   | 24.0   | 23.5   | 24.0   | 24.0 | 24.0  | 23.0 | 22.5   | 21.5 |
| 5°    | 24.5   | 24.5   | 24.5   | 25.0   | 24.5   | 24.5   | 24.0 | 23.5  | 22.5 | 21.0   | 20.5 |
| 7.5°  | 25.5   | 25.5   | 25.0   | 25.5   | 25.0   | 25.0   | 24.0 | 23.0  | 21.5 | 20.0   | 19.0 |
| 10°   | 26.5   | 26.5   | 26.0   | 26.0   | 25.5   | 25.5   | 23.5 | 22.0  | 19.5 | 18.0   | 17.5 |
| 12.5° | 29.5   | 29.5   | 29.0   | 28.5   | 27.5   | 27.0   | 23.0 | 20.5  | 17.5 | 16.0   | 15.5 |
| 15°   | 38.0   | 37.5   | 36.5   | 35.0   | 32.5   | 32.0   | 23.0 | 19.0  | 16.0 | 14.5   | 14.5 |
| 17.5° | 52.0   | 51.5   | 50.0   | 46.0   | 41.5   | 40.0   | 23.0 | 17.0  | 14.0 | 13.0   | 13.0 |
| 20°   | 93.1   | 89.1   | 81.6   | 71.6   | 61.0   | 55.5   | 24.5 | 15.0  | 12.0 | 11.5   | 12.0 |
| 21°   | 121.6  | 117.6  | 108.1  | 91.6   | 73.1   | 67.0   | 25.5 | 14.5  | 11.5 | 11.0   | 12.0 |
| 22°   | 165.6  | 161.1  | 141.6  | 119.1  | 92.6   | 82.1   | 26.0 | 13.5  | 10.5 | 10.5   | 11.5 |
| 23°   | 231.2  | 223.7  | 190.6  | 154.6  | 115.6  | 100.6  | 27.0 | 13.0  | 10.0 | 10.5   | 11.0 |
| 24°   | 302.7  | 296.2  | 258.7  | 204.6  | 147.6  | 126.1  | 28.0 | 12.5  | 9.5  | 9.5    | 10.5 |
| 25°   | 416.8  | 409.3  | 342.7  | 258.2  | 187.1  | 151.6  | 29.5 | 11.5  | 9.0  | 9.0    | 10.5 |
| 26°   | 564.4  | 529.9  | 441.3  | 332.7  | 230.7  | 190.1  | 31.0 | 11.0  | 8.5  | 9.0    | 10.0 |
| 27°   | 704.5  | 676.0  | 576.4  | 426.8  | 285.2  | 233.7  | 33.0 | 10.5  | 8.0  | 8.5    | 10.0 |
| 28°   | 888.6  | 848.6  | 723.0  | 539.9  | 359.3  | 282.7  | 35.0 | 10.0  | 7.5  | 8.5    | 9.5  |
| 29°   | 1094.8 | 1038.7 | 887.1  | 667.0  | 442.8  | 337.7  | 37.0 | 9.5   | 7.0  | 8.0    | 9.5  |
| 30°   | 1267.9 | 1215.4 | 1063.8 | 817.6  | 538.9  | 410.3  | 39.0 | 9.0   | 6.5  | 8.0    | 9.5  |
| 31°   | 1471.1 | 1391.5 | 1207.9 | 945.2  | 621.4  | 482.8  | 41.0 | 8.0   | 6.0  | 7.5    | 9.0  |
| 32°   | 1635.7 | 1580.1 | 1385.0 | 1089.3 | 730.0  | 562.9  | 42.5 | 7.5   | 6.0  | 7.5    | 9.0  |
| 33°   | 1794.8 | 1720.2 | 1531.6 | 1227.4 | 828.1  | 645.0  | 44.0 | 7.0   | 5.5  | 7.0    | 9.0  |
| 34°   | 1946.9 | 1878.4 | 1670.2 | 1339.0 | 920.7  | 723.0  | 45.0 | 6.0   | 5.5  | 7.0    | 8.5  |
| 35°   | 2081.0 | 2001.4 | 1792.3 | 1448.0 | 1015.7 | 794.1  | 45.0 | 5.5   | 5.0  | 6.5    | 8.5  |
| 36°   | 2168.1 | 2111.0 | 1898.4 | 1555.6 | 1101.8 | 861.6  | 45.0 | 5.0   | 4.5  | 6.5    | 8.0  |
| 37°   | 2242.6 | 2176.1 | 1983.4 | 1638.2 | 1165.3 | 915.7  | 45.0 | 4.5   | 4.5  | 6.5    | 8.0  |
| 38°   | 2273.1 | 2216.1 | 2042.0 | 1711.2 | 1224.9 | 970.7  | 44.5 | 4.0   | 4.0  | 6.0    | 8.0  |
| 39°   | 2285.1 | 2234.1 | 2086.0 | 1763.8 | 1268.9 | 1007.7 | 43.5 | 3.5   | 4.0  | 6.0    | 8.0  |
| 40°   | 2269.6 | 2231.1 | 2108.5 | 1797.8 | 1303.9 | 1034.7 | 42.0 | 3.0   | 3.5  | 6.0    | 8.0  |
| 42.5° | 2205.6 | 2180.1 | 2103.5 | 1831.8 | 1334.0 | 1054.8 | 36.5 | 2.0   | 3.5  | 5.5    | 8.0  |
| 45°   | 2148.5 | 2120.5 | 2053.0 | 1796.3 | 1294.9 | 1015.2 | 27.5 | 1.0   | 3.5  | 5.5    | 8.0  |
| 47.5° | 2038.0 | 2020.5 | 1967.4 | 1705.7 | 1209.4 | 926.2  | 19.5 | 0.5   | 3.0  | 5.0    | 7.5  |
| 50°   | 1816.3 | 1799.8 | 1729.7 | 1481.1 | 1040.2 | 783.1  | 14.0 | 0.5   | 2.5  | 5.0    | 7.5  |
| 52.5° | 1617.7 | 1600.2 | 1499.6 | 1231.4 | 799.1  | 573.9  | 9.0  | 0.5   | 2.5  | 5.0    | 7.5  |
| 55°   | 1377.5 | 1347.0 | 1214.9 | 934.7  | 566.4  | 384.8  | 6.5  | 0.5   | 2.5  | 4.5    | 7.5  |
| 57.5° | 1019.7 | 975.2  | 857.1  | 637.5  | 326.2  | 208.7  | 3.5  | 0.5   | 2.5  | 4.5    | 7.5  |
| 60°   | 693.5  | 667.0  | 536.4  | 336.2  | 139.1  | 88.1   | 1.5  | 0.5   | 2.5  | 4.5    | 7.0  |
| 62.5° | 420.3  | 386.8  | 269.7  | 143.1  | 60.0   | 40.0   | 0.0  | 1.0   | 2.5  | 4.5    | 7.0  |
| 65°   | 119.6  | 106.1  | 70.6   | 32.5   | 17.0   | 13.0   | 0.0  | 1.0   | 2.5  | 4.5    | 7.0  |
| 67.5° | 4.0    | 4.0    | 4.0    | 3.5    | 2.5    | 2.5    | 0.5  | 1.0   | 2.5  | 4.5    | 6.5  |
| 70°   | 1.5    | 1.5    | 1.5    | 1.0    | 1.0    | 0.5    | 0.5  | 1.0   | 2.5  | 4.0    | 6.5  |
| 72.5° | 1.0    | 1.0    | 1.0    | 1.0    | 0.5    | 0.5    | 0.5  | 1.0   | 2.0  | 3.5    | 6.0  |
| 75°   | 1.0    | 1.0    | 1.0    | 0.5    | 0.5    | 0.5    | 0.5  | 1.5   | 2.0  | 3.5    | 5.0  |
| 77.5° | 1.0    | 1.0    | 1.0    | 0.5    | 0.5    | 0.5    | 0.5  | 1.5   | 2.0  | 3.0    | 5.0  |
| 80°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5  | 1.5   | 2.0  | 3.0    | 4.0  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-----|-----|-----|-----|-----|-------|-----|-------|-----|--------|------|
| 82.5° | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0   | 0.5 | 1.5   | 2.0 | 2.0    | 3.0  |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.5 | 1.5   | 2.0 | 1.5    | 2.0  |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.5 | 1.5   | 1.5 | 1.5    | 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):**

|       | 157.5° | 180° |
|-------|--------|------|
| 0°    | 23.0   | 23.0 |
| 2.5°  | 21.5   | 21.5 |
| 5°    | 20.0   | 20.0 |
| 7.5°  | 18.5   | 18.5 |
| 10°   | 17.0   | 17.0 |
| 12.5° | 16.0   | 16.0 |
| 15°   | 14.5   | 15.0 |
| 17.5° | 13.5   | 14.0 |
| 20°   | 13.0   | 13.5 |
| 21°   | 13.0   | 13.5 |
| 22°   | 12.5   | 13.0 |
| 23°   | 12.5   | 13.0 |
| 24°   | 12.0   | 12.5 |
| 25°   | 11.5   | 12.0 |
| 26°   | 11.5   | 12.0 |
| 27°   | 11.5   | 12.0 |
| 28°   | 11.0   | 12.0 |
| 29°   | 11.0   | 11.5 |
| 30°   | 11.0   | 11.5 |
| 31°   | 10.5   | 11.5 |
| 32°   | 10.5   | 11.5 |
| 33°   | 10.5   | 11.0 |
| 34°   | 10.0   | 11.0 |
| 35°   | 10.0   | 11.0 |
| 36°   | 10.0   | 11.0 |
| 37°   | 10.0   | 10.5 |
| 38°   | 10.0   | 11.0 |
| 39°   | 10.0   | 10.5 |
| 40°   | 10.0   | 10.5 |
| 42.5° | 10.0   | 10.5 |
| 45°   | 10.0   | 10.5 |
| 47.5° | 10.0   | 11.0 |
| 50°   | 10.0   | 11.0 |
| 52.5° | 10.0   | 11.0 |
| 55°   | 10.0   | 11.0 |
| 57.5° | 10.0   | 10.5 |
| 60°   | 10.0   | 10.5 |
| 62.5° | 9.5    | 10.5 |
| 65°   | 9.5    | 10.0 |
| 67.5° | 9.5    | 10.0 |
| 70°   | 9.0    | 9.5  |
| 72.5° | 8.5    | 9.0  |
| 75°   | 7.5    | 8.5  |
| 77.5° | 7.0    | 7.5  |
| 80°   | 6.0    | 6.5  |



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CATALOG NUMBER: P3SQAS05R309030DE010 E3SQCA451MW

**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 82.5° | 5.0    | 5.0  |
| 85°   | 3.5    | 4.0  |
| 87.5° | 2.0    | 2.0  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)