

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: P1337981

Luminaire Tested: P3A05R309830DE010 E3A451WH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1337981  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A05R309830DE010 E3A451WH  
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 98CRI , E3A451WH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

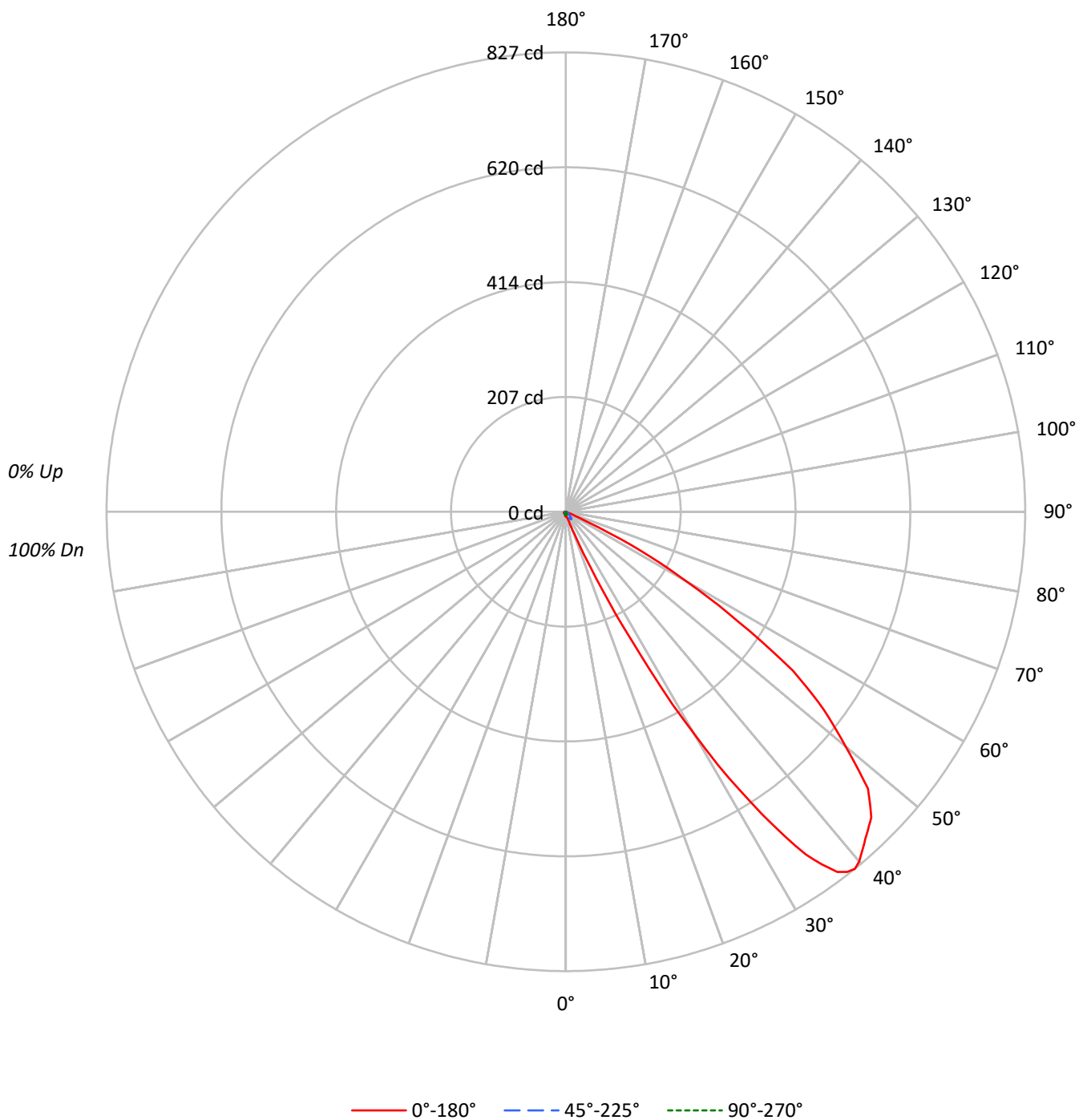
Lumens per Lamp: N/A  
Luminaire Lumens: 215.0 lumens  
Efficiency: N/A  
Efficacy: 29.9 lumens/watt  
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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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CATALOG NUMBER: P3A05R309830DE010 E3A451WH

### 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°  | 1820   | 1820 | 1820 | 1820 | 1820 |
| 5°  | 1959   | 1915 | 1783 | 1629 | 1585 |
| 10° | 2138   | 1893 | 1581 | 1403 | 1381 |
| 15° | 3133   | 1884 | 1317 | 1203 | 1226 |
| 20° | 7864   | 2077 | 1003 | 1003 | 1143 |
| 25° | 36510  | 2589 | 798  | 919  | 1040 |
| 30° | 116195 | 3570 | 608  | 861  | 1063 |
| 35° | 201626 | 4363 | 482  | 830  | 1071 |
| 40° | 235155 | 4351 | 372  | 830  | 1088 |
| 45° | 241172 | 3101 | 403  | 899  | 1178 |
| 50° | 224266 | 1740 | 307  | 921  | 1365 |
| 55° | 190617 | 918  | 344  | 1032 | 1529 |
| 60° | 110079 | 219  | 395  | 1096 | 1667 |
| 65° | 22467  | 0    | 467  | 1297 | 1868 |
| 70° | 321    | 128  | 577  | 1539 | 2180 |
| 75° | 339    | 169  | 593  | 1525 | 2626 |
| 80° | 253    | 253  | 884  | 1768 | 3031 |
| 85° | 0      | 503  | 1761 | 1761 | 3522 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 241172 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.8    | 0.3       |
| 10°-20°   | 2.2    | 1.0       |
| 20°-30°   | 12.4   | 5.8       |
| 30°-40°   | 57.9   | 26.9      |
| 40°-50°   | 81.9   | 38.1      |
| 50°-60°   | 50.4   | 23.4      |
| 60°-70°   | 7.7    | 3.6       |
| 70°-80°   | 1.2    | 0.6       |
| 80°-90°   | 0.6    | 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°    | 15.3   | 7.1       |
| 0°-40°    | 73.2   | 34.1      |
| 0°-60°    | 205.5  | 95.6      |
| 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°  | 8   | 8   | 8   | 8    | 8    |      |
| 5°  | 9   | 9   | 8   | 7    | 7    | 1    |
| 15° | 14  | 8   | 6   | 5    | 5    | 5    |
| 25° | 151 | 11  | 3   | 4    | 4    | 93   |
| 35° | 753 | 16  | 2   | 3    | 4    | 452  |
| 45° | 778 | 10  | 1   | 3    | 4    | 590  |
| 55° | 499 | 2   | 1   | 3    | 4    | 424  |
| 65° | 43  | 0   | 1   | 2    | 4    | 78   |
| 75° | 0   | 0   | 1   | 2    | 3    | 0    |
| 85° | 0   | 0   | 1   | 1    | 1    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1337981

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 45°  | 67.5° | 90° | 112.5° | 135° |
|-------|-------|-------|-------|-------|-------|-------|------|-------|-----|--------|------|
| 0°    | 8.3   | 8.3   | 8.3   | 8.3   | 8.3   | 8.3   | 8.3  | 8.3   | 8.3 | 8.3    | 8.3  |
| 2.5°  | 8.5   | 8.5   | 8.7   | 8.7   | 8.5   | 8.7   | 8.7  | 8.7   | 8.3 | 8.1    | 7.8  |
| 5°    | 8.9   | 8.9   | 8.9   | 9.1   | 8.9   | 8.9   | 8.7  | 8.5   | 8.1 | 7.6    | 7.4  |
| 7.5°  | 9.2   | 9.2   | 9.1   | 9.2   | 9.1   | 9.1   | 8.7  | 8.3   | 7.8 | 7.2    | 6.9  |
| 10°   | 9.6   | 9.6   | 9.4   | 9.4   | 9.2   | 9.2   | 8.5  | 8.0   | 7.1 | 6.5    | 6.3  |
| 12.5° | 10.7  | 10.7  | 10.5  | 10.3  | 10.0  | 9.8   | 8.3  | 7.4   | 6.3 | 5.8    | 5.6  |
| 15°   | 13.8  | 13.6  | 13.2  | 12.7  | 11.8  | 11.6  | 8.3  | 6.9   | 5.8 | 5.3    | 5.3  |
| 17.5° | 18.8  | 18.7  | 18.1  | 16.7  | 15.0  | 14.5  | 8.3  | 6.2   | 5.1 | 4.7    | 4.7  |
| 20°   | 33.7  | 32.2  | 29.5  | 25.9  | 22.1  | 20.1  | 8.9  | 5.4   | 4.3 | 4.2    | 4.3  |
| 21°   | 44.0  | 42.6  | 39.1  | 33.1  | 26.4  | 24.3  | 9.2  | 5.3   | 4.2 | 4.0    | 4.3  |
| 22°   | 59.9  | 58.3  | 51.3  | 43.1  | 33.5  | 29.7  | 9.4  | 4.9   | 3.8 | 3.8    | 4.2  |
| 23°   | 83.7  | 81.0  | 69.0  | 56.0  | 41.8  | 36.4  | 9.8  | 4.7   | 3.6 | 3.8    | 4.0  |
| 24°   | 109.6 | 107.2 | 93.6  | 74.1  | 53.4  | 45.6  | 10.1 | 4.5   | 3.4 | 3.4    | 3.8  |
| 25°   | 150.9 | 148.1 | 124.1 | 93.5  | 67.7  | 54.9  | 10.7 | 4.2   | 3.3 | 3.3    | 3.8  |
| 26°   | 204.3 | 191.8 | 159.7 | 120.4 | 83.5  | 68.8  | 11.2 | 4.0   | 3.1 | 3.3    | 3.6  |
| 27°   | 255.0 | 244.7 | 208.6 | 154.5 | 103.2 | 84.6  | 12.0 | 3.8   | 2.9 | 3.1    | 3.6  |
| 28°   | 321.6 | 307.2 | 261.7 | 195.4 | 130.0 | 102.3 | 12.7 | 3.6   | 2.7 | 3.1    | 3.4  |
| 29°   | 396.3 | 376.0 | 321.1 | 241.4 | 160.3 | 122.2 | 13.4 | 3.4   | 2.5 | 2.9    | 3.4  |
| 30°   | 458.9 | 439.9 | 385.0 | 295.9 | 195.1 | 148.5 | 14.1 | 3.3   | 2.4 | 2.9    | 3.4  |
| 31°   | 532.5 | 503.7 | 437.2 | 342.1 | 224.9 | 174.8 | 14.9 | 2.9   | 2.2 | 2.7    | 3.3  |
| 32°   | 592.0 | 571.9 | 501.3 | 394.3 | 264.2 | 203.7 | 15.4 | 2.7   | 2.2 | 2.7    | 3.3  |
| 33°   | 649.6 | 622.6 | 554.4 | 444.3 | 299.7 | 233.4 | 15.9 | 2.5   | 2.0 | 2.5    | 3.3  |
| 34°   | 704.7 | 679.9 | 604.5 | 484.6 | 333.2 | 261.7 | 16.3 | 2.2   | 2.0 | 2.5    | 3.1  |
| 35°   | 753.2 | 724.4 | 648.7 | 524.1 | 367.6 | 287.4 | 16.3 | 2.0   | 1.8 | 2.4    | 3.1  |
| 36°   | 784.7 | 764.1 | 687.1 | 563.1 | 398.8 | 311.9 | 16.3 | 1.8   | 1.6 | 2.4    | 2.9  |
| 37°   | 811.7 | 787.6 | 717.9 | 592.9 | 421.8 | 331.4 | 16.3 | 1.6   | 1.6 | 2.4    | 2.9  |
| 38°   | 822.8 | 802.1 | 739.1 | 619.4 | 443.3 | 351.3 | 16.1 | 1.4   | 1.4 | 2.2    | 2.9  |
| 39°   | 827.1 | 808.6 | 755.0 | 638.4 | 459.3 | 364.7 | 15.8 | 1.3   | 1.4 | 2.2    | 2.9  |
| 40°   | 821.5 | 807.6 | 763.2 | 650.7 | 472.0 | 374.5 | 15.2 | 1.1   | 1.3 | 2.2    | 2.9  |
| 42.5° | 798.3 | 789.1 | 761.4 | 663.0 | 482.8 | 381.8 | 13.2 | 0.7   | 1.3 | 2.0    | 2.9  |
| 45°   | 777.7 | 767.5 | 743.1 | 650.2 | 468.7 | 367.5 | 10.0 | 0.4   | 1.3 | 2.0    | 2.9  |
| 47.5° | 737.6 | 731.3 | 712.1 | 617.4 | 437.7 | 335.2 | 7.1  | 0.2   | 1.1 | 1.8    | 2.7  |
| 50°   | 657.4 | 651.4 | 626.1 | 536.1 | 376.5 | 283.4 | 5.1  | 0.2   | 0.9 | 1.8    | 2.7  |
| 52.5° | 585.5 | 579.2 | 542.8 | 445.7 | 289.2 | 207.7 | 3.3  | 0.2   | 0.9 | 1.8    | 2.7  |
| 55°   | 498.6 | 487.5 | 439.7 | 338.3 | 205.0 | 139.3 | 2.4  | 0.2   | 0.9 | 1.6    | 2.7  |
| 57.5° | 369.1 | 353.0 | 310.2 | 230.7 | 118.1 | 75.5  | 1.3  | 0.2   | 0.9 | 1.6    | 2.7  |
| 60°   | 251.0 | 241.4 | 194.1 | 121.7 | 50.3  | 31.9  | 0.5  | 0.2   | 0.9 | 1.6    | 2.5  |
| 62.5° | 152.1 | 140.0 | 97.6  | 51.8  | 21.7  | 14.5  | 0.0  | 0.4   | 0.9 | 1.6    | 2.5  |
| 65°   | 43.3  | 38.4  | 25.5  | 11.8  | 6.2   | 4.7   | 0.0  | 0.4   | 0.9 | 1.6    | 2.5  |
| 67.5° | 1.4   | 1.4   | 1.4   | 1.3   | 0.9   | 0.9   | 0.2  | 0.4   | 0.9 | 1.6    | 2.4  |
| 70°   | 0.5   | 0.5   | 0.5   | 0.4   | 0.4   | 0.2   | 0.2  | 0.4   | 0.9 | 1.4    | 2.4  |
| 72.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.2   | 0.2   | 0.2  | 0.4   | 0.7 | 1.3    | 2.2  |
| 75°   | 0.4   | 0.4   | 0.4   | 0.2   | 0.2   | 0.2   | 0.2  | 0.5   | 0.7 | 1.3    | 1.8  |
| 77.5° | 0.4   | 0.4   | 0.4   | 0.2   | 0.2   | 0.2   | 0.2  | 0.5   | 0.7 | 1.1    | 1.8  |
| 80°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2  | 0.5   | 0.7 | 1.1    | 1.4  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-----|-----|-----|-----|-----|-------|-----|-------|-----|--------|------|
| 82.5° | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0   | 0.2 | 0.5   | 0.7 | 0.7    | 1.1  |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.2 | 0.5   | 0.7 | 0.5    | 0.7  |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.2 | 0.5   | 0.5 | 0.5    | 0.4  |
| 90°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  |



TEST NUMBER: P1337981

CATALOG NUMBER: P3A05R309830DE010 E3A451WH

**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 0°    | 8.3    | 8.3  |
| 2.5°  | 7.8    | 7.8  |
| 5°    | 7.2    | 7.2  |
| 7.5°  | 6.7    | 6.7  |
| 10°   | 6.2    | 6.2  |
| 12.5° | 5.8    | 5.8  |
| 15°   | 5.3    | 5.4  |
| 17.5° | 4.9    | 5.1  |
| 20°   | 4.7    | 4.9  |
| 21°   | 4.7    | 4.9  |
| 22°   | 4.5    | 4.7  |
| 23°   | 4.5    | 4.7  |
| 24°   | 4.3    | 4.5  |
| 25°   | 4.2    | 4.3  |
| 26°   | 4.2    | 4.3  |
| 27°   | 4.2    | 4.3  |
| 28°   | 4.0    | 4.3  |
| 29°   | 4.0    | 4.2  |
| 30°   | 4.0    | 4.2  |
| 31°   | 3.8    | 4.2  |
| 32°   | 3.8    | 4.2  |
| 33°   | 3.8    | 4.0  |
| 34°   | 3.6    | 4.0  |
| 35°   | 3.6    | 4.0  |
| 36°   | 3.6    | 4.0  |
| 37°   | 3.6    | 3.8  |
| 38°   | 3.6    | 4.0  |
| 39°   | 3.6    | 3.8  |
| 40°   | 3.6    | 3.8  |
| 42.5° | 3.6    | 3.8  |
| 45°   | 3.6    | 3.8  |
| 47.5° | 3.6    | 4.0  |
| 50°   | 3.6    | 4.0  |
| 52.5° | 3.6    | 4.0  |
| 55°   | 3.6    | 4.0  |
| 57.5° | 3.6    | 3.8  |
| 60°   | 3.6    | 3.8  |
| 62.5° | 3.4    | 3.8  |
| 65°   | 3.4    | 3.6  |
| 67.5° | 3.4    | 3.6  |
| 70°   | 3.3    | 3.4  |
| 72.5° | 3.1    | 3.3  |
| 75°   | 2.7    | 3.1  |
| 77.5° | 2.5    | 2.7  |
| 80°   | 2.2    | 2.4  |

TEST NUMBER: P1337981

CATALOG NUMBER: P3A05R309830DE010 E3A451WH

**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 82.5° | 1.8    | 1.8  |
| 85°   | 1.3    | 1.4  |
| 87.5° | 0.7    | 0.7  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)