

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: P1337914

Luminaire Tested: P3A05R309730DE010 E3A451H

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1337914  
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: P3A05R309730DE010 E3A451H  
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 97CRI , E3A451H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

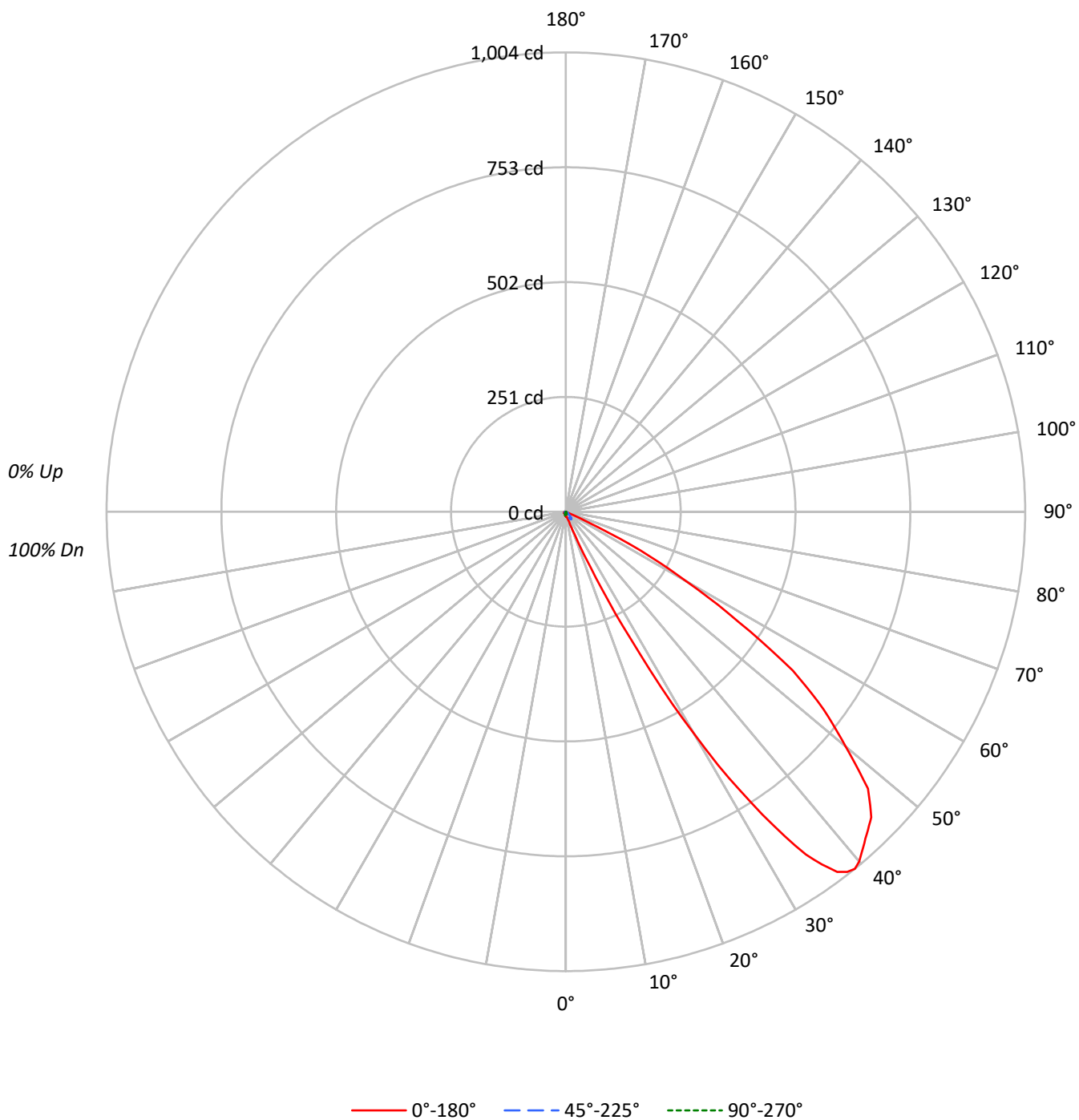
Lumens per Lamp: N/A  
Luminaire Lumens: 261.0 lumens  
Efficiency: N/A  
Efficacy: 36.3 lumens/watt  
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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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### 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°  | 2215   | 2215 | 2215 | 2215 | 2215 |
| 5°  | 2377   | 2333 | 2179 | 1981 | 1937 |
| 10° | 2605   | 2293 | 1915 | 1715 | 1670 |
| 15° | 3791   | 2293 | 1589 | 1453 | 1498 |
| 20° | 9544   | 2520 | 1237 | 1237 | 1377 |
| 25° | 44301  | 3145 | 968  | 1113 | 1282 |
| 30° | 141060 | 4330 | 734  | 1063 | 1291 |
| 35° | 244778 | 5300 | 589  | 990  | 1285 |
| 40° | 285478 | 5296 | 429  | 1002 | 1317 |
| 45° | 292775 | 3752 | 465  | 1085 | 1427 |
| 50° | 272264 | 2115 | 375  | 1126 | 1637 |
| 55° | 231409 | 1109 | 421  | 1262 | 1835 |
| 60° | 133630 | 307  | 482  | 1360 | 2017 |
| 65° | 27240  | 0    | 571  | 1608 | 2283 |
| 70° | 449    | 128  | 705  | 1859 | 2693 |
| 75° | 339    | 169  | 763  | 1864 | 3135 |
| 80° | 253    | 253  | 1137 | 2273 | 3662 |
| 85° | 0      | 503  | 2264 | 2264 | 4529 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 292775 cd/sqm

TEST NUMBER: P1337914

CATALOG NUMBER: P3A05R309730DE010 E3A451H

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.9    | 0.4       |
| 10°-20°   | 2.6    | 1.0       |
| 20°-30°   | 15.1   | 5.8       |
| 30°-40°   | 70.3   | 26.9      |
| 40°-50°   | 99.4   | 38.1      |
| 50°-60°   | 61.2   | 23.4      |
| 60°-70°   | 9.3    | 3.6       |
| 70°-80°   | 1.5    | 0.6       |
| 80°-90°   | 0.7    | 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°    | 18.6   | 7.1       |
| 0°-40°    | 88.9   | 34.1      |
| 0°-60°    | 249.5  | 95.6      |
| 0°-90°    | 261.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 261.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 10  | 10  | 10  | 10   | 10   |      |
| 5°  | 11  | 11  | 10  | 9    | 9    | 1    |
| 15° | 17  | 10  | 7   | 6    | 7    | 6    |
| 25° | 183 | 13  | 4   | 5    | 5    | 113  |
| 35° | 914 | 20  | 2   | 4    | 5    | 549  |
| 45° | 944 | 12  | 2   | 4    | 5    | 716  |
| 55° | 605 | 3   | 1   | 3    | 5    | 515  |
| 65° | 52  | 0   | 1   | 3    | 4    | 95   |
| 75° | 0   | 0   | 1   | 2    | 4    | 0    |
| 85° | 0   | 0   | 1   | 1    | 2    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1337914

CATALOG NUMBER: P3A05R309730DE010 E3A451H

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°    | 10°   | 15°   | 20°   | 22.5° | 45°  | 67.5° | 90°  | 112.5° | 135° |
|-------|--------|-------|-------|-------|-------|-------|------|-------|------|--------|------|
| 0°    | 10.1   | 10.1  | 10.1  | 10.1  | 10.1  | 10.1  | 10.1 | 10.1  | 10.1 | 10.1   | 10.1 |
| 2.5°  | 10.3   | 10.3  | 10.6  | 10.6  | 10.3  | 10.6  | 10.6 | 10.6  | 10.1 | 9.9    | 9.5  |
| 5°    | 10.8   | 10.8  | 10.8  | 11.0  | 10.8  | 10.8  | 10.6 | 10.3  | 9.9  | 9.2    | 9.0  |
| 7.5°  | 11.2   | 11.2  | 11.0  | 11.2  | 11.0  | 11.0  | 10.6 | 10.1  | 9.5  | 8.8    | 8.4  |
| 10°   | 11.7   | 11.7  | 11.4  | 11.4  | 11.2  | 11.2  | 10.3 | 9.7   | 8.6  | 7.9    | 7.7  |
| 12.5° | 13.0   | 13.0  | 12.8  | 12.5  | 12.1  | 11.9  | 10.1 | 9.0   | 7.7  | 7.0    | 6.8  |
| 15°   | 16.7   | 16.5  | 16.0  | 15.4  | 14.3  | 14.1  | 10.1 | 8.4   | 7.0  | 6.4    | 6.4  |
| 17.5° | 22.9   | 22.6  | 22.0  | 20.2  | 18.2  | 17.6  | 10.1 | 7.5   | 6.2  | 5.7    | 5.7  |
| 20°   | 40.9   | 39.1  | 35.8  | 31.4  | 26.8  | 24.4  | 10.8 | 6.6   | 5.3  | 5.1    | 5.3  |
| 21°   | 53.4   | 51.7  | 47.5  | 40.2  | 32.1  | 29.5  | 11.2 | 6.4   | 5.1  | 4.8    | 5.3  |
| 22°   | 72.8   | 70.8  | 62.2  | 52.3  | 40.7  | 36.1  | 11.4 | 5.9   | 4.6  | 4.6    | 5.1  |
| 23°   | 101.6  | 98.3  | 83.8  | 67.9  | 50.8  | 44.2  | 11.9 | 5.7   | 4.4  | 4.6    | 4.8  |
| 24°   | 133.0  | 130.2 | 113.7 | 89.9  | 64.9  | 55.4  | 12.3 | 5.5   | 4.2  | 4.2    | 4.6  |
| 25°   | 183.1  | 179.8 | 150.6 | 113.4 | 82.2  | 66.6  | 13.0 | 5.1   | 4.0  | 4.0    | 4.6  |
| 26°   | 248.0  | 232.8 | 193.9 | 146.2 | 101.4 | 83.5  | 13.6 | 4.8   | 3.7  | 4.0    | 4.4  |
| 27°   | 309.6  | 297.0 | 253.3 | 187.5 | 125.3 | 102.7 | 14.5 | 4.6   | 3.5  | 3.7    | 4.4  |
| 28°   | 390.5  | 372.9 | 317.7 | 237.2 | 157.9 | 124.2 | 15.4 | 4.4   | 3.3  | 3.7    | 4.2  |
| 29°   | 481.0  | 456.4 | 389.8 | 293.1 | 194.6 | 148.4 | 16.3 | 4.2   | 3.1  | 3.5    | 4.2  |
| 30°   | 557.1  | 534.0 | 467.4 | 359.2 | 236.8 | 180.3 | 17.1 | 4.0   | 2.9  | 3.5    | 4.2  |
| 31°   | 646.4  | 611.4 | 530.7 | 415.3 | 273.1 | 212.2 | 18.0 | 3.5   | 2.6  | 3.3    | 4.0  |
| 32°   | 718.7  | 694.3 | 608.6 | 478.6 | 320.8 | 247.3 | 18.7 | 3.3   | 2.6  | 3.3    | 4.0  |
| 33°   | 788.6  | 755.9 | 673.0 | 539.3 | 363.9 | 283.4 | 19.3 | 3.1   | 2.4  | 3.1    | 4.0  |
| 34°   | 855.5  | 825.3 | 733.9 | 588.3 | 404.5 | 317.7 | 19.8 | 2.6   | 2.4  | 3.1    | 3.7  |
| 35°   | 914.4  | 879.4 | 787.5 | 636.3 | 446.3 | 348.9 | 19.8 | 2.4   | 2.2  | 2.9    | 3.7  |
| 36°   | 952.6  | 927.6 | 834.1 | 683.5 | 484.1 | 378.6 | 19.8 | 2.2   | 2.0  | 2.9    | 3.5  |
| 37°   | 985.4  | 956.2 | 871.5 | 719.8 | 512.0 | 402.3 | 19.8 | 2.0   | 2.0  | 2.9    | 3.5  |
| 38°   | 998.8  | 973.7 | 897.2 | 751.9 | 538.2 | 426.5 | 19.6 | 1.8   | 1.8  | 2.6    | 3.5  |
| 39°   | 1004.1 | 981.7 | 916.6 | 775.0 | 557.6 | 442.8 | 19.1 | 1.5   | 1.8  | 2.6    | 3.5  |
| 40°   | 997.3  | 980.3 | 926.5 | 789.9 | 572.9 | 454.7 | 18.5 | 1.3   | 1.5  | 2.6    | 3.5  |
| 42.5° | 969.1  | 957.9 | 924.3 | 804.9 | 586.1 | 463.5 | 16.0 | 0.9   | 1.5  | 2.4    | 3.5  |
| 45°   | 944.1  | 931.7 | 902.1 | 789.3 | 569.0 | 446.1 | 12.1 | 0.4   | 1.5  | 2.4    | 3.5  |
| 47.5° | 895.5  | 887.8 | 864.5 | 749.5 | 531.4 | 407.0 | 8.6  | 0.2   | 1.3  | 2.2    | 3.3  |
| 50°   | 798.1  | 790.8 | 760.0 | 650.8 | 457.1 | 344.1 | 6.2  | 0.2   | 1.1  | 2.2    | 3.3  |
| 52.5° | 710.8  | 703.1 | 658.9 | 541.1 | 351.1 | 252.2 | 4.0  | 0.2   | 1.1  | 2.2    | 3.3  |
| 55°   | 605.3  | 591.9 | 533.8 | 410.7 | 248.9 | 169.1 | 2.9  | 0.2   | 1.1  | 2.0    | 3.3  |
| 57.5° | 448.1  | 428.5 | 376.6 | 280.1 | 143.3 | 91.7  | 1.5  | 0.2   | 1.1  | 2.0    | 3.3  |
| 60°   | 304.7  | 293.1 | 235.7 | 147.7 | 61.1  | 38.7  | 0.7  | 0.2   | 1.1  | 2.0    | 3.1  |
| 62.5° | 184.7  | 169.9 | 118.5 | 62.9  | 26.4  | 17.6  | 0.0  | 0.4   | 1.1  | 2.0    | 3.1  |
| 65°   | 52.5   | 46.6  | 31.0  | 14.3  | 7.5   | 5.7   | 0.0  | 0.4   | 1.1  | 2.0    | 3.1  |
| 67.5° | 1.8    | 1.8   | 1.8   | 1.5   | 1.1   | 1.1   | 0.2  | 0.4   | 1.1  | 2.0    | 2.9  |
| 70°   | 0.7    | 0.7   | 0.7   | 0.4   | 0.4   | 0.2   | 0.2  | 0.4   | 1.1  | 1.8    | 2.9  |
| 72.5° | 0.4    | 0.4   | 0.4   | 0.4   | 0.2   | 0.2   | 0.2  | 0.4   | 0.9  | 1.5    | 2.6  |
| 75°   | 0.4    | 0.4   | 0.4   | 0.2   | 0.2   | 0.2   | 0.2  | 0.7   | 0.9  | 1.5    | 2.2  |
| 77.5° | 0.4    | 0.4   | 0.4   | 0.2   | 0.2   | 0.2   | 0.2  | 0.7   | 0.9  | 1.3    | 2.2  |
| 80°   | 0.2    | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2  | 0.7   | 0.9  | 1.3    | 1.8  |



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CATALOG NUMBER: P3A05R309730DE010 E3A451H

**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 | 0.7   | 0.9 | 0.9    | 1.3  |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.2 | 0.7   | 0.9 | 0.7    | 0.9  |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.2 | 0.7   | 0.7 | 0.7    | 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: P1337914

CATALOG NUMBER: P3A05R309730DE010 E3A451H

**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 0°    | 10.1   | 10.1 |
| 2.5°  | 9.5    | 9.5  |
| 5°    | 8.8    | 8.8  |
| 7.5°  | 8.1    | 8.1  |
| 10°   | 7.5    | 7.5  |
| 12.5° | 7.0    | 7.0  |
| 15°   | 6.4    | 6.6  |
| 17.5° | 5.9    | 6.2  |
| 20°   | 5.7    | 5.9  |
| 21°   | 5.7    | 5.9  |
| 22°   | 5.5    | 5.7  |
| 23°   | 5.5    | 5.7  |
| 24°   | 5.3    | 5.5  |
| 25°   | 5.1    | 5.3  |
| 26°   | 5.1    | 5.3  |
| 27°   | 5.1    | 5.3  |
| 28°   | 4.8    | 5.3  |
| 29°   | 4.8    | 5.1  |
| 30°   | 4.8    | 5.1  |
| 31°   | 4.6    | 5.1  |
| 32°   | 4.6    | 5.1  |
| 33°   | 4.6    | 4.8  |
| 34°   | 4.4    | 4.8  |
| 35°   | 4.4    | 4.8  |
| 36°   | 4.4    | 4.8  |
| 37°   | 4.4    | 4.6  |
| 38°   | 4.4    | 4.8  |
| 39°   | 4.4    | 4.6  |
| 40°   | 4.4    | 4.6  |
| 42.5° | 4.4    | 4.6  |
| 45°   | 4.4    | 4.6  |
| 47.5° | 4.4    | 4.8  |
| 50°   | 4.4    | 4.8  |
| 52.5° | 4.4    | 4.8  |
| 55°   | 4.4    | 4.8  |
| 57.5° | 4.4    | 4.6  |
| 60°   | 4.4    | 4.6  |
| 62.5° | 4.2    | 4.6  |
| 65°   | 4.2    | 4.4  |
| 67.5° | 4.2    | 4.4  |
| 70°   | 4.0    | 4.2  |
| 72.5° | 3.7    | 4.0  |
| 75°   | 3.3    | 3.7  |
| 77.5° | 3.1    | 3.3  |
| 80°   | 2.6    | 2.9  |

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CATALOG NUMBER: P3A05R309730DE010 E3A451H

**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 82.5° | 2.2    | 2.2  |
| 85°   | 1.5    | 1.8  |
| 87.5° | 0.9    | 0.9  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)