

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: P1319512

Luminaire Tested: P3SQAS02R30B2750DE010 E3SQCA451MB\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319512  
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: P3SQAS02R30B2750DE010 E3SQCA451MB\_4000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R30 optic, 4000K CCT AND, 80CRI , E3SQCA451MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

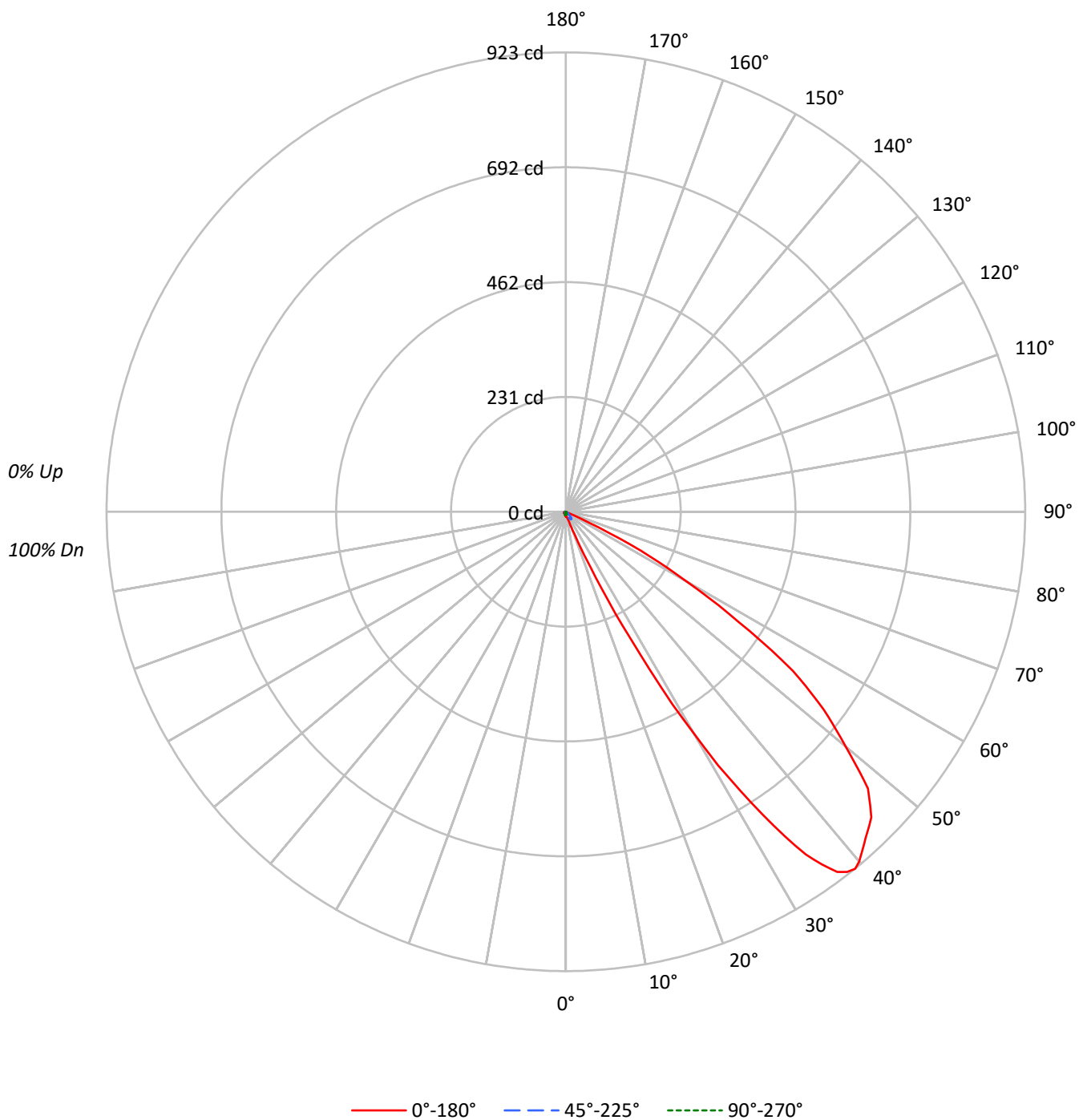
Lumens per Lamp: N/A  
Luminaire Lumens: 239.9 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 2.9  
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



TEST NUMBER: P1319512

CATALOG NUMBER: P3SQA02R30B2750DE010 E3SQA451MB\_4000K

**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  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 89  | 89  | 87  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 75  | 75  | 73  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 63  | 63  | 61  |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 52  | 52  | 50  |
| 5   | 75  | 62  | 52  | 46  | 73  | 60  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 54  | 49  | 44  | 44  | 44  | 42  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 42  | 37  | 37  | 37  | 35  |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 36  | 31  | 31  | 31  | 29  |
| 8   | 56  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 26  | 39  | 32  | 26  | 37  | 31  | 26  | 26  | 26  | 24  |
| 9   | 52  | 37  | 29  | 23  | 50  | 37  | 28  | 23  | 36  | 28  | 22  | 34  | 27  | 22  | 33  | 27  | 22  | 22  | 22  | 20  |
| 10  | 48  | 33  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 24  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 19  | 19  | 17  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 1602   | 1602 | 1602 | 1602 | 1602 |
| 5°  | 1712   | 1677 | 1573 | 1435 | 1400 |
| 10° | 1871   | 1661 | 1382 | 1242 | 1207 |
| 15° | 2746   | 1658 | 1159 | 1052 | 1088 |
| 20° | 6891   | 1814 | 898  | 898  | 1008 |
| 25° | 32000  | 2261 | 684  | 798  | 931  |
| 30° | 101879 | 3142 | 517  | 756  | 915  |
| 35° | 176774 | 3826 | 420  | 715  | 925  |
| 40° | 206161 | 3822 | 315  | 719  | 944  |
| 45° | 211434 | 2704 | 341  | 779  | 1023 |
| 50° | 196634 | 1527 | 268  | 804  | 1179 |
| 55° | 167125 | 781  | 300  | 901  | 1321 |
| 60° | 96514  | 207  | 344  | 964  | 1447 |
| 65° | 19683  | 0    | 408  | 1141 | 1630 |
| 70° | 302    | 101  | 504  | 1309 | 1913 |
| 75° | 266    | 133  | 532  | 1331 | 2262 |
| 80° | 198    | 198  | 793  | 1587 | 2579 |
| 85° | 0      | 395  | 1581 | 1581 | 3162 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 211434 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.8    | 0.4       |
| 10°-20°   | 2.4    | 1.0       |
| 20°-30°   | 13.8   | 5.8       |
| 30°-40°   | 64.6   | 26.9      |
| 40°-50°   | 91.4   | 38.1      |
| 50°-60°   | 56.2   | 23.4      |
| 60°-70°   | 8.6    | 3.6       |
| 70°-80°   | 1.3    | 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°    | 17.1   | 7.1       |
| 0°-40°    | 81.7   | 34.1      |
| 0°-60°    | 229.4  | 95.6      |
| 0°-90°    | 239.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 239.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 9   | 9   | 9   | 9    | 9    |      |
| 5°  | 10  | 10  | 9   | 8    | 8    | 1    |
| 15° | 15  | 9   | 6   | 6    | 6    | 5    |
| 25° | 168 | 12  | 4   | 4    | 5    | 104  |
| 35° | 841 | 18  | 2   | 3    | 4    | 505  |
| 45° | 868 | 11  | 1   | 3    | 4    | 658  |
| 55° | 557 | 3   | 1   | 3    | 4    | 474  |
| 65° | 48  | 0   | 1   | 3    | 4    | 87   |
| 75° | 0   | 0   | 1   | 2    | 3    | 0    |
| 85° | 0   | 0   | 1   | 1    | 2    | 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°    | 9.3   | 9.3   | 9.3   | 9.3   | 9.3   | 9.3   | 9.3  | 9.3   | 9.3 | 9.3    | 9.3  |
| 2.5°  | 9.5   | 9.5   | 9.7   | 9.7   | 9.5   | 9.7   | 9.7  | 9.7   | 9.3 | 9.1    | 8.7  |
| 5°    | 9.9   | 9.9   | 9.9   | 10.1  | 9.9   | 9.9   | 9.7  | 9.5   | 9.1 | 8.5    | 8.3  |
| 7.5°  | 10.3  | 10.3  | 10.1  | 10.3  | 10.1  | 10.1  | 9.7  | 9.3   | 8.7 | 8.1    | 7.7  |
| 10°   | 10.7  | 10.7  | 10.5  | 10.5  | 10.3  | 10.3  | 9.5  | 8.9   | 7.9 | 7.3    | 7.1  |
| 12.5° | 11.9  | 11.9  | 11.7  | 11.5  | 11.1  | 10.9  | 9.3  | 8.3   | 7.1 | 6.5    | 6.3  |
| 15°   | 15.4  | 15.2  | 14.8  | 14.2  | 13.1  | 12.9  | 9.3  | 7.7   | 6.5 | 5.9    | 5.9  |
| 17.5° | 21.0  | 20.8  | 20.2  | 18.6  | 16.8  | 16.2  | 9.3  | 6.9   | 5.7 | 5.3    | 5.3  |
| 20°   | 37.6  | 36.0  | 33.0  | 28.9  | 24.7  | 22.4  | 9.9  | 6.1   | 4.9 | 4.6    | 4.9  |
| 21°   | 49.1  | 47.5  | 43.7  | 37.0  | 29.5  | 27.1  | 10.3 | 5.9   | 4.6 | 4.4    | 4.9  |
| 22°   | 66.9  | 65.1  | 57.2  | 48.1  | 37.4  | 33.2  | 10.5 | 5.5   | 4.2 | 4.2    | 4.6  |
| 23°   | 93.4  | 90.4  | 77.0  | 62.5  | 46.7  | 40.6  | 10.9 | 5.3   | 4.0 | 4.2    | 4.4  |
| 24°   | 122.3 | 119.7 | 104.5 | 82.7  | 59.6  | 50.9  | 11.3 | 5.1   | 3.8 | 3.8    | 4.2  |
| 25°   | 168.4 | 165.4 | 138.5 | 104.3 | 75.6  | 61.3  | 11.9 | 4.6   | 3.6 | 3.6    | 4.2  |
| 26°   | 228.0 | 214.1 | 178.3 | 134.4 | 93.2  | 76.8  | 12.5 | 4.4   | 3.4 | 3.6    | 4.0  |
| 27°   | 284.6 | 273.1 | 232.9 | 172.4 | 115.2 | 94.4  | 13.3 | 4.2   | 3.2 | 3.4    | 4.0  |
| 28°   | 359.0 | 342.9 | 292.1 | 218.1 | 145.2 | 114.2 | 14.2 | 4.0   | 3.0 | 3.4    | 3.8  |
| 29°   | 442.3 | 419.7 | 358.4 | 269.5 | 178.9 | 136.5 | 15.0 | 3.8   | 2.8 | 3.2    | 3.8  |
| 30°   | 512.3 | 491.1 | 429.8 | 330.3 | 217.7 | 165.8 | 15.8 | 3.6   | 2.6 | 3.2    | 3.8  |
| 31°   | 594.4 | 562.2 | 488.0 | 381.9 | 251.1 | 195.1 | 16.6 | 3.2   | 2.4 | 3.0    | 3.6  |
| 32°   | 660.9 | 638.4 | 559.6 | 440.1 | 295.0 | 227.4 | 17.2 | 3.0   | 2.4 | 3.0    | 3.6  |
| 33°   | 725.2 | 695.0 | 618.8 | 495.9 | 334.6 | 260.6 | 17.8 | 2.8   | 2.2 | 2.8    | 3.6  |
| 34°   | 786.6 | 758.9 | 674.8 | 541.0 | 372.0 | 292.1 | 18.2 | 2.4   | 2.2 | 2.8    | 3.4  |
| 35°   | 840.8 | 808.7 | 724.2 | 585.1 | 410.4 | 320.8 | 18.2 | 2.2   | 2.0 | 2.6    | 3.4  |
| 36°   | 876.0 | 852.9 | 767.0 | 628.5 | 445.2 | 348.1 | 18.2 | 2.0   | 1.8 | 2.6    | 3.2  |
| 37°   | 906.1 | 879.2 | 801.4 | 661.9 | 470.8 | 370.0 | 18.2 | 1.8   | 1.8 | 2.6    | 3.2  |
| 38°   | 918.4 | 895.4 | 825.0 | 691.4 | 494.9 | 392.2 | 18.0 | 1.6   | 1.6 | 2.4    | 3.2  |
| 39°   | 923.3 | 902.7 | 842.8 | 712.6 | 512.7 | 407.2 | 17.6 | 1.4   | 1.6 | 2.4    | 3.2  |
| 40°   | 917.0 | 901.5 | 851.9 | 726.4 | 526.8 | 418.1 | 17.0 | 1.2   | 1.4 | 2.4    | 3.2  |
| 42.5° | 891.1 | 880.8 | 849.9 | 740.1 | 539.0 | 426.2 | 14.8 | 0.8   | 1.4 | 2.2    | 3.2  |
| 45°   | 868.1 | 856.8 | 829.5 | 725.8 | 523.2 | 410.2 | 11.1 | 0.4   | 1.4 | 2.2    | 3.2  |
| 47.5° | 823.4 | 816.3 | 794.9 | 689.2 | 488.6 | 374.2 | 7.9  | 0.2   | 1.2 | 2.0    | 3.0  |
| 50°   | 733.9 | 727.2 | 698.9 | 598.4 | 420.3 | 316.4 | 5.7  | 0.2   | 1.0 | 2.0    | 3.0  |
| 52.5° | 653.6 | 646.5 | 605.9 | 497.5 | 322.9 | 231.9 | 3.6  | 0.2   | 1.0 | 2.0    | 3.0  |
| 55°   | 556.6 | 544.2 | 490.9 | 377.6 | 228.9 | 155.5 | 2.6  | 0.2   | 1.0 | 1.8    | 3.0  |
| 57.5° | 412.0 | 394.0 | 346.3 | 257.6 | 131.8 | 84.3  | 1.4  | 0.2   | 1.0 | 1.8    | 3.0  |
| 60°   | 280.2 | 269.5 | 216.7 | 135.9 | 56.2  | 35.6  | 0.6  | 0.2   | 1.0 | 1.8    | 2.8  |
| 62.5° | 169.8 | 156.3 | 109.0 | 57.8  | 24.3  | 16.2  | 0.0  | 0.4   | 1.0 | 1.8    | 2.8  |
| 65°   | 48.3  | 42.9  | 28.5  | 13.1  | 6.9   | 5.3   | 0.0  | 0.4   | 1.0 | 1.8    | 2.8  |
| 67.5° | 1.6   | 1.6   | 1.6   | 1.4   | 1.0   | 1.0   | 0.2  | 0.4   | 1.0 | 1.8    | 2.6  |
| 70°   | 0.6   | 0.6   | 0.6   | 0.4   | 0.4   | 0.2   | 0.2  | 0.4   | 1.0 | 1.6    | 2.6  |
| 72.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.2   | 0.2   | 0.2  | 0.4   | 0.8 | 1.4    | 2.4  |
| 75°   | 0.4   | 0.4   | 0.4   | 0.2   | 0.2   | 0.2   | 0.2  | 0.6   | 0.8 | 1.4    | 2.0  |
| 77.5° | 0.4   | 0.4   | 0.4   | 0.2   | 0.2   | 0.2   | 0.2  | 0.6   | 0.8 | 1.2    | 2.0  |
| 80°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2  | 0.6   | 0.8 | 1.2    | 1.6  |



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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 | 0.6   | 0.8 | 0.8    | 1.2  |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.2 | 0.6   | 0.8 | 0.6    | 0.8  |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.2 | 0.6   | 0.6 | 0.6    | 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  |



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**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 0°    | 9.3    | 9.3  |
| 2.5°  | 8.7    | 8.7  |
| 5°    | 8.1    | 8.1  |
| 7.5°  | 7.5    | 7.5  |
| 10°   | 6.9    | 6.9  |
| 12.5° | 6.5    | 6.5  |
| 15°   | 5.9    | 6.1  |
| 17.5° | 5.5    | 5.7  |
| 20°   | 5.3    | 5.5  |
| 21°   | 5.3    | 5.5  |
| 22°   | 5.1    | 5.3  |
| 23°   | 5.1    | 5.3  |
| 24°   | 4.9    | 5.1  |
| 25°   | 4.6    | 4.9  |
| 26°   | 4.6    | 4.9  |
| 27°   | 4.6    | 4.9  |
| 28°   | 4.4    | 4.9  |
| 29°   | 4.4    | 4.6  |
| 30°   | 4.4    | 4.6  |
| 31°   | 4.2    | 4.6  |
| 32°   | 4.2    | 4.6  |
| 33°   | 4.2    | 4.4  |
| 34°   | 4.0    | 4.4  |
| 35°   | 4.0    | 4.4  |
| 36°   | 4.0    | 4.4  |
| 37°   | 4.0    | 4.2  |
| 38°   | 4.0    | 4.4  |
| 39°   | 4.0    | 4.2  |
| 40°   | 4.0    | 4.2  |
| 42.5° | 4.0    | 4.2  |
| 45°   | 4.0    | 4.2  |
| 47.5° | 4.0    | 4.4  |
| 50°   | 4.0    | 4.4  |
| 52.5° | 4.0    | 4.4  |
| 55°   | 4.0    | 4.4  |
| 57.5° | 4.0    | 4.2  |
| 60°   | 4.0    | 4.2  |
| 62.5° | 3.8    | 4.2  |
| 65°   | 3.8    | 4.0  |
| 67.5° | 3.8    | 4.0  |
| 70°   | 3.6    | 3.8  |
| 72.5° | 3.4    | 3.6  |
| 75°   | 3.0    | 3.4  |
| 77.5° | 2.8    | 3.0  |
| 80°   | 2.4    | 2.6  |



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**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 82.5° | 2.0    | 2.0  |
| 85°   | 1.4    | 1.6  |
| 87.5° | 0.8    | 0.8  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)