

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: P1345330

Luminaire Tested: P3A13R30W2N902765DE010 E3A451H\_3000K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1345330  
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: P3A13R30W2N902765DE010 E3A451H\_3000K  
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 3000K CCT AND, 90CRI ,  
E3A451H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

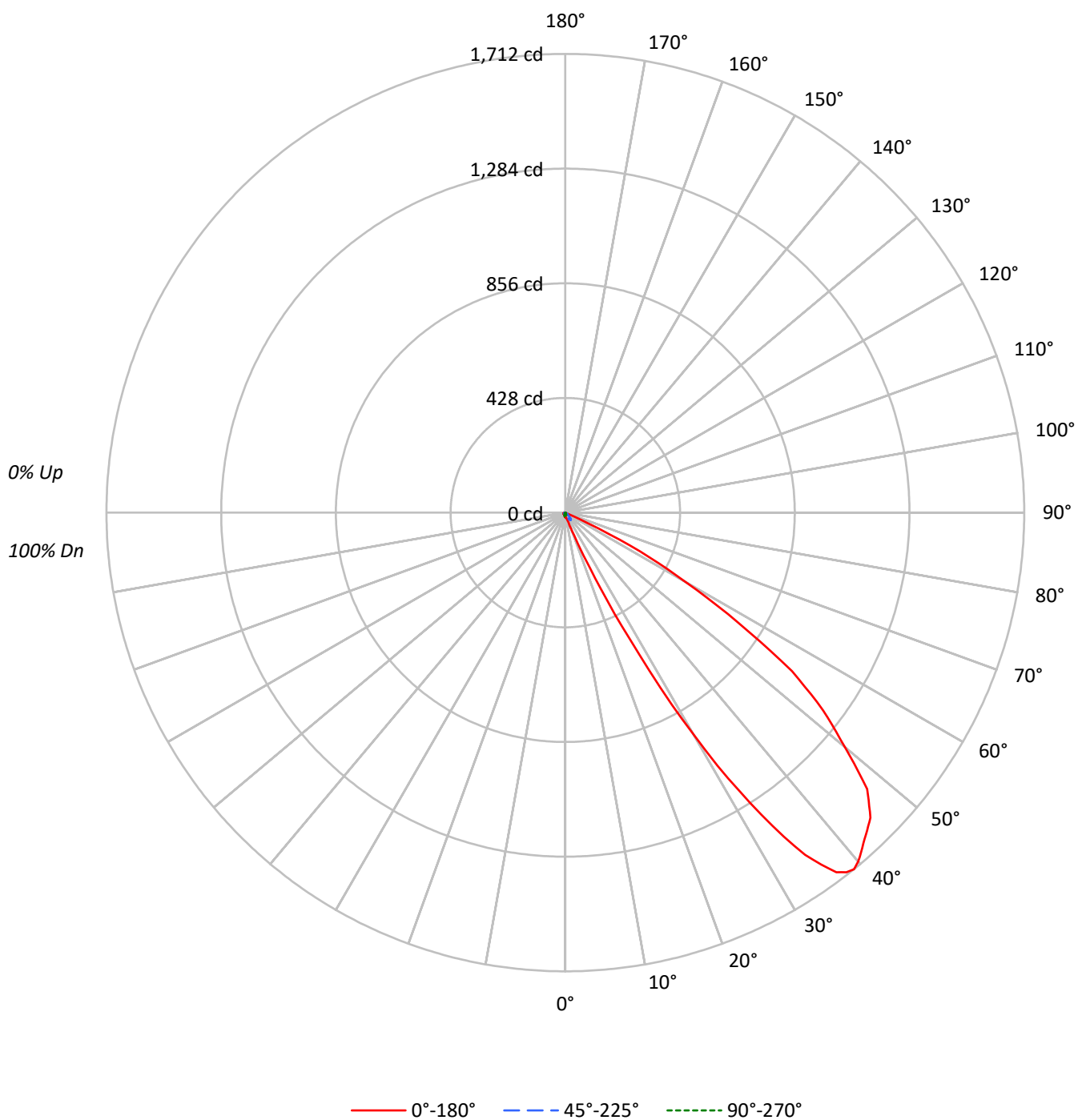
Lumens per Lamp: N/A  
Luminaire Lumens: 445.0 lumens  
Efficiency: N/A  
Efficacy: 36.2 lumens/watt  
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.3  
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: P1345330

CATALOG NUMBER: P3A13R30W2N902765DE010 E3A451H\_3000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1345330

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

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 3772   | 3772 | 3772 | 3772 | 3772 |
| 5°  | 4050   | 3962 | 3720 | 3390 | 3302 |
| 10° | 4431   | 3919 | 3251 | 2917 | 2828 |
| 15° | 6470   | 3905 | 2724 | 2474 | 2543 |
| 20° | 16265  | 4294 | 2100 | 2100 | 2357 |
| 25° | 75537  | 5347 | 1621 | 1911 | 2178 |
| 30° | 240518 | 7394 | 1241 | 1798 | 2178 |
| 35° | 417332 | 9021 | 990  | 1713 | 2195 |
| 40° | 486712 | 9017 | 744  | 1718 | 2261 |
| 45° | 499153 | 6388 | 806  | 1861 | 2450 |
| 50° | 464189 | 3582 | 648  | 1910 | 2797 |
| 55° | 394538 | 1873 | 726  | 2141 | 3135 |
| 60° | 227833 | 482  | 833  | 2281 | 3465 |
| 65° | 46490  | 0    | 986  | 2698 | 3891 |
| 70° | 705    | 256  | 1218 | 3142 | 4552 |
| 75° | 593    | 339  | 1271 | 3135 | 5422 |
| 80° | 505    | 505  | 1894 | 3788 | 6188 |
| 85° | 0      | 1006 | 3774 | 3774 | 7548 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 499153 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.6    | 0.3       |
| 10°-20°   | 4.5    | 1.0       |
| 20°-30°   | 25.7   | 5.8       |
| 30°-40°   | 119.9  | 26.9      |
| 40°-50°   | 169.5  | 38.1      |
| 50°-60°   | 104.3  | 23.4      |
| 60°-70°   | 15.9   | 3.6       |
| 70°-80°   | 2.5    | 0.6       |
| 80°-90°   | 1.2    | 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°    | 31.7   | 7.1       |
| 0°-40°    | 151.6  | 34.1      |
| 0°-60°    | 425.3  | 95.6      |
| 0°-90°    | 445.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 445.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 17   | 17  | 17  | 17   | 17   |      |
| 5°  | 18   | 18  | 17  | 15   | 15   | 2    |
| 15° | 28   | 17  | 12  | 11   | 11   | 10   |
| 25° | 312  | 22  | 7   | 8    | 9    | 192  |
| 35° | 1559 | 34  | 4   | 6    | 8    | 936  |
| 45° | 1610 | 21  | 3   | 6    | 8    | 1220 |
| 55° | 1032 | 5   | 2   | 6    | 8    | 878  |
| 65° | 90   | 0   | 2   | 5    | 8    | 162  |
| 75° | 1    | 0   | 2   | 4    | 6    | 1    |
| 85° | 0    | 0   | 2   | 2    | 3    | 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°    | 17.2   | 17.2   | 17.2   | 17.2   | 17.2  | 17.2  | 17.2 | 17.2  | 17.2 | 17.2   | 17.2 |
| 2.5°  | 17.6   | 17.6   | 18.0   | 18.0   | 17.6  | 18.0  | 18.0 | 18.0  | 17.2 | 16.9   | 16.1 |
| 5°    | 18.4   | 18.4   | 18.4   | 18.7   | 18.4  | 18.4  | 18.0 | 17.6  | 16.9 | 15.7   | 15.4 |
| 7.5°  | 19.1   | 19.1   | 18.7   | 19.1   | 18.7  | 18.7  | 18.0 | 17.2  | 16.1 | 15.0   | 14.2 |
| 10°   | 19.9   | 19.9   | 19.5   | 19.5   | 19.1  | 19.1  | 17.6 | 16.5  | 14.6 | 13.5   | 13.1 |
| 12.5° | 22.1   | 22.1   | 21.7   | 21.4   | 20.6  | 20.2  | 17.2 | 15.4  | 13.1 | 12.0   | 11.6 |
| 15°   | 28.5   | 28.1   | 27.4   | 26.2   | 24.4  | 24.0  | 17.2 | 14.2  | 12.0 | 10.9   | 10.9 |
| 17.5° | 39.0   | 38.6   | 37.5   | 34.5   | 31.1  | 30.0  | 17.2 | 12.7  | 10.5 | 9.7    | 9.7  |
| 20°   | 69.7   | 66.7   | 61.1   | 53.6   | 45.7  | 41.6  | 18.4 | 11.2  | 9.0  | 8.6    | 9.0  |
| 21°   | 91.1   | 88.1   | 81.0   | 68.6   | 54.7  | 50.2  | 19.1 | 10.9  | 8.6  | 8.2    | 9.0  |
| 22°   | 124.1  | 120.7  | 106.1  | 89.2   | 69.3  | 61.5  | 19.5 | 10.1  | 7.9  | 7.9    | 8.6  |
| 23°   | 173.2  | 167.6  | 142.8  | 115.8  | 86.6  | 75.3  | 20.2 | 9.7   | 7.5  | 7.9    | 8.2  |
| 24°   | 226.8  | 221.9  | 193.8  | 153.3  | 110.6 | 94.5  | 21.0 | 9.4   | 7.1  | 7.1    | 7.9  |
| 25°   | 312.2  | 306.6  | 256.8  | 193.4  | 140.2 | 113.6 | 22.1 | 8.6   | 6.7  | 6.7    | 7.9  |
| 26°   | 422.8  | 397.0  | 330.6  | 249.3  | 172.8 | 142.4 | 23.2 | 8.2   | 6.4  | 6.7    | 7.5  |
| 27°   | 527.8  | 506.4  | 431.8  | 319.7  | 213.7 | 175.1 | 24.7 | 7.9   | 6.0  | 6.4    | 7.5  |
| 28°   | 665.7  | 635.7  | 541.7  | 404.5  | 269.1 | 211.8 | 26.2 | 7.5   | 5.6  | 6.4    | 7.1  |
| 29°   | 820.2  | 778.2  | 664.6  | 499.7  | 331.7 | 253.0 | 27.7 | 7.1   | 5.2  | 6.0    | 7.1  |
| 30°   | 949.9  | 910.5  | 796.9  | 612.5  | 403.7 | 307.4 | 29.2 | 6.7   | 4.9  | 6.0    | 7.1  |
| 31°   | 1102.1 | 1042.5 | 904.9  | 708.1  | 465.6 | 361.7 | 30.7 | 6.0   | 4.5  | 5.6    | 6.7  |
| 32°   | 1225.4 | 1183.8 | 1037.6 | 816.0  | 546.9 | 421.7 | 31.9 | 5.6   | 4.5  | 5.6    | 6.7  |
| 33°   | 1344.6 | 1288.7 | 1147.4 | 919.5  | 620.4 | 483.2 | 33.0 | 5.2   | 4.1  | 5.2    | 6.7  |
| 34°   | 1458.5 | 1407.2 | 1251.2 | 1003.1 | 689.7 | 541.7 | 33.7 | 4.5   | 4.1  | 5.2    | 6.4  |
| 35°   | 1559.0 | 1499.4 | 1342.7 | 1084.8 | 760.9 | 594.9 | 33.7 | 4.1   | 3.7  | 4.9    | 6.4  |
| 36°   | 1624.2 | 1581.5 | 1422.2 | 1165.4 | 825.4 | 645.5 | 33.7 | 3.7   | 3.4  | 4.9    | 6.0  |
| 37°   | 1680.1 | 1630.2 | 1485.9 | 1227.3 | 873.0 | 686.0 | 33.7 | 3.4   | 3.4  | 4.9    | 6.0  |
| 38°   | 1702.9 | 1660.2 | 1529.8 | 1282.0 | 917.6 | 727.2 | 33.4 | 3.0   | 3.0  | 4.5    | 6.0  |
| 39°   | 1711.9 | 1673.7 | 1562.7 | 1321.3 | 950.6 | 754.9 | 32.6 | 2.6   | 3.0  | 4.5    | 6.0  |
| 40°   | 1700.3 | 1671.5 | 1579.6 | 1346.8 | 976.9 | 775.2 | 31.5 | 2.2   | 2.6  | 4.5    | 6.0  |
| 42.5° | 1652.3 | 1633.2 | 1575.9 | 1372.3 | 999.3 | 790.2 | 27.4 | 1.5   | 2.6  | 4.1    | 6.0  |
| 45°   | 1609.6 | 1588.6 | 1538.0 | 1345.7 | 970.1 | 760.6 | 20.6 | 0.7   | 2.6  | 4.1    | 6.0  |
| 47.5° | 1526.8 | 1513.6 | 1473.9 | 1277.9 | 906.0 | 693.8 | 14.6 | 0.4   | 2.2  | 3.7    | 5.6  |
| 50°   | 1360.7 | 1348.3 | 1295.9 | 1109.6 | 779.3 | 586.6 | 10.5 | 0.4   | 1.9  | 3.7    | 5.6  |
| 52.5° | 1211.9 | 1198.8 | 1123.4 | 922.5  | 598.6 | 430.0 | 6.7  | 0.4   | 1.9  | 3.7    | 5.6  |
| 55°   | 1032.0 | 1009.1 | 910.1  | 700.2  | 424.3 | 288.3 | 4.9  | 0.4   | 1.9  | 3.4    | 5.6  |
| 57.5° | 763.9  | 730.6  | 642.1  | 477.6  | 244.4 | 156.3 | 2.6  | 0.4   | 1.9  | 3.4    | 5.6  |
| 60°   | 519.5  | 499.7  | 401.8  | 251.9  | 104.2 | 66.0  | 1.1  | 0.4   | 1.9  | 3.4    | 5.2  |
| 62.5° | 314.9  | 289.8  | 202.0  | 107.2  | 45.0  | 30.0  | 0.0  | 0.7   | 1.9  | 3.4    | 5.2  |
| 65°   | 89.6   | 79.5   | 52.9   | 24.4   | 12.7  | 9.7   | 0.0  | 0.7   | 1.9  | 3.4    | 5.2  |
| 67.5° | 3.0    | 3.0    | 3.0    | 2.6    | 1.9   | 1.9   | 0.4  | 0.7   | 1.9  | 3.4    | 4.9  |
| 70°   | 1.1    | 1.1    | 1.1    | 0.7    | 0.7   | 0.4   | 0.4  | 0.7   | 1.9  | 3.0    | 4.9  |
| 72.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.4   | 0.4   | 0.4  | 0.7   | 1.5  | 2.6    | 4.5  |
| 75°   | 0.7    | 0.7    | 0.7    | 0.4    | 0.4   | 0.4   | 0.4  | 1.1   | 1.5  | 2.6    | 3.7  |
| 77.5° | 0.7    | 0.7    | 0.7    | 0.4    | 0.4   | 0.4   | 0.4  | 1.1   | 1.5  | 2.2    | 3.7  |
| 80°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4   | 0.4  | 1.1   | 1.5  | 2.2    | 3.0  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-----|-----|-----|-----|-----|-------|-----|-------|-----|--------|------|
| 82.5° | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0   | 0.4 | 1.1   | 1.5 | 1.5    | 2.2  |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.4 | 1.1   | 1.5 | 1.1    | 1.5  |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.4 | 1.1   | 1.1 | 1.1    | 0.7  |
| 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):**

|       | 157.5° | 180° |
|-------|--------|------|
| 0°    | 17.2   | 17.2 |
| 2.5°  | 16.1   | 16.1 |
| 5°    | 15.0   | 15.0 |
| 7.5°  | 13.9   | 13.9 |
| 10°   | 12.7   | 12.7 |
| 12.5° | 12.0   | 12.0 |
| 15°   | 10.9   | 11.2 |
| 17.5° | 10.1   | 10.5 |
| 20°   | 9.7    | 10.1 |
| 21°   | 9.7    | 10.1 |
| 22°   | 9.4    | 9.7  |
| 23°   | 9.4    | 9.7  |
| 24°   | 9.0    | 9.4  |
| 25°   | 8.6    | 9.0  |
| 26°   | 8.6    | 9.0  |
| 27°   | 8.6    | 9.0  |
| 28°   | 8.2    | 9.0  |
| 29°   | 8.2    | 8.6  |
| 30°   | 8.2    | 8.6  |
| 31°   | 7.9    | 8.6  |
| 32°   | 7.9    | 8.6  |
| 33°   | 7.9    | 8.2  |
| 34°   | 7.5    | 8.2  |
| 35°   | 7.5    | 8.2  |
| 36°   | 7.5    | 8.2  |
| 37°   | 7.5    | 7.9  |
| 38°   | 7.5    | 8.2  |
| 39°   | 7.5    | 7.9  |
| 40°   | 7.5    | 7.9  |
| 42.5° | 7.5    | 7.9  |
| 45°   | 7.5    | 7.9  |
| 47.5° | 7.5    | 8.2  |
| 50°   | 7.5    | 8.2  |
| 52.5° | 7.5    | 8.2  |
| 55°   | 7.5    | 8.2  |
| 57.5° | 7.5    | 7.9  |
| 60°   | 7.5    | 7.9  |
| 62.5° | 7.1    | 7.9  |
| 65°   | 7.1    | 7.5  |
| 67.5° | 7.1    | 7.5  |
| 70°   | 6.7    | 7.1  |
| 72.5° | 6.4    | 6.7  |
| 75°   | 5.6    | 6.4  |
| 77.5° | 5.2    | 5.6  |
| 80°   | 4.5    | 4.9  |



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**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 82.5° | 3.7    | 3.7  |
| 85°   | 2.6    | 3.0  |
| 87.5° | 1.5    | 1.5  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)