

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: P1337029

Luminaire Tested: P3A05R20B2750DE010 E3A301GPH\_3500K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1337029  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A05R20B2750DE010 E3A301GPH\_3500K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 3500K CCT AND, 80CRI , E3A301GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

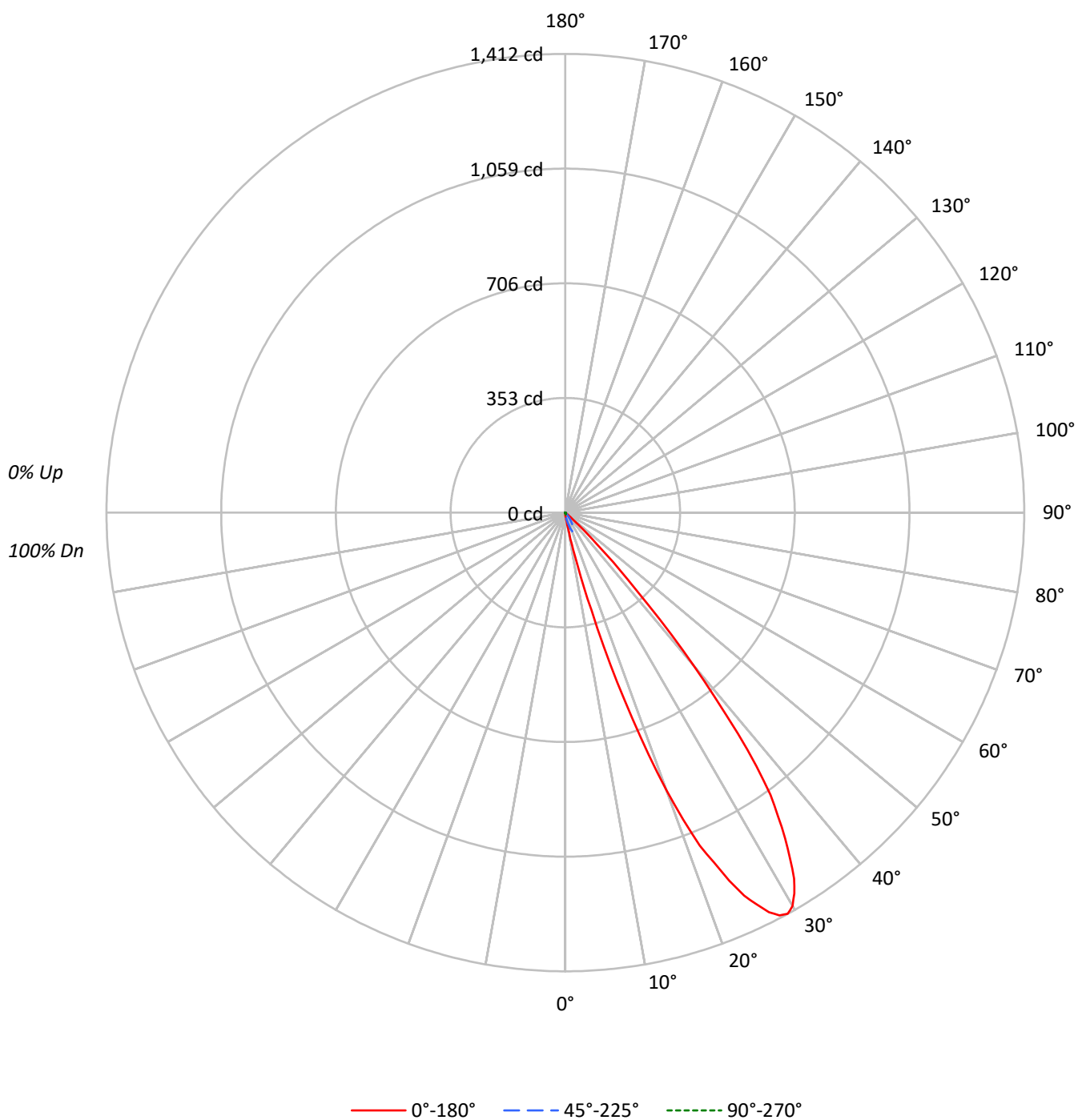
Lumens per Lamp: N/A  
Luminaire Lumens: 198.0 lumens  
Efficiency: N/A  
Efficacy: 33.6 lumens/watt  
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.9  
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

TEST NUMBER: P1337029

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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  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 92  |    |    |
| 2   | 106 | 100 | 96  | 92  | 104 | 99  | 94  | 91  | 95  | 92  | 89  | 92  | 89  | 87  | 89  | 87  | 85  | 83  |    |    |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 75  |    |    |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 76  | 71  | 79  | 74  | 71  | 77  | 73  | 70  | 68  |    |    |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  | 72  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 62  | 58  | 65  | 61  | 57  | 55  |    |    |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  | 62  | 56  | 52  | 60  | 55  | 52  | 50  |    |    |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |    |    |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 43  | 41  |    |    |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 42  | 39  | 37  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 1491   | 1491  | 1491 | 1491 | 1491 |
| 5°  | 3434   | 2575  | 1431 | 880  | 748  |
| 10° | 10844  | 4476  | 1158 | 490  | 356  |
| 15° | 70216  | 8286  | 863  | 159  | 45   |
| 20° | 211932 | 14165 | 583  | 0    | 0    |
| 25° | 314752 | 14299 | 339  | 0    | 0    |
| 30° | 353953 | 10862 | 127  | 0    | 0    |
| 35° | 305383 | 6505  | 107  | 0    | 0    |
| 40° | 175844 | 2204  | 0    | 0    | 0    |
| 45° | 42888  | 899   | 62   | 0    | 62   |
| 50° | 5151   | 239   | 68   | 68   | 171  |
| 55° | 688    | 0     | 153  | 153  | 268  |
| 60° | 88     | 0     | 219  | 219  | 395  |
| 65° | 104    | 104   | 363  | 363  | 571  |
| 70° | 128    | 128   | 449  | 449  | 577  |
| 75° | 0      | 169   | 593  | 424  | 593  |
| 80° | 0      | 253   | 631  | 505  | 631  |
| 85° | 0      | 503   | 1258 | 503  | 503  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 43167 cd/sqm

TEST NUMBER: P1337029

CATALOG NUMBER: P3A05R20B2750DE010 E3A301GPH\_3500K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.9    | 0.5       |
| 10°-20°   | 18.4   | 9.3       |
| 20°-30°   | 80.0   | 40.4      |
| 30°-40°   | 80.5   | 40.7      |
| 40°-50°   | 16.2   | 8.2       |
| 50°-60°   | 0.8    | 0.4       |
| 60°-70°   | 0.5    | 0.3       |
| 70°-80°   | 0.5    | 0.2       |
| 80°-90°   | 0.3    | 0.1       |
| 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°    | 99.2   | 50.1      |
| 0°-40°    | 179.8  | 90.8      |
| 0°-60°    | 196.8  | 99.4      |
| 0°-90°    | 198.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 198.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 7    | 7   | 7   | 7    | 7    |      |
| 5°  | 16   | 12  | 6   | 4    | 3    | 2    |
| 15° | 309  | 36  | 4   | 1    | 0    | 121  |
| 25° | 1301 | 59  | 1   | 0    | 0    | 587  |
| 35° | 1141 | 24  | 0   | 0    | 0    | 679  |
| 45° | 138  | 3   | 0   | 0    | 0    | 151  |
| 55° | 2    | 0   | 0   | 0    | 1    | 3    |
| 65° | 0    | 0   | 1   | 1    | 1    | 0    |
| 75° | 0    | 0   | 1   | 0    | 1    | 0    |
| 85° | 0    | 0   | 0   | 0    | 0    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1337029

CATALOG NUMBER: P3A05R20B2750DE010 E3A301GPH\_3500K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5° | 20°   | 22.5° | 45°  |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|
| 0°    | 6.8    | 6.8    | 6.8    | 6.8    | 6.8    | 6.8    | 6.8    | 6.8   | 6.8   | 6.8   | 6.8  |
| 2.5°  | 10.2   | 10.2   | 10.1   | 10.1   | 9.9    | 10.1   | 9.7    | 9.9   | 9.9   | 9.7   | 8.8  |
| 5°    | 15.6   | 16.0   | 15.8   | 15.8   | 15.6   | 15.8   | 15.4   | 15.1  | 14.7  | 14.7  | 11.7 |
| 7.5°  | 25.7   | 25.5   | 25.1   | 25.3   | 24.8   | 24.4   | 24.1   | 23.9  | 22.8  | 22.3  | 15.3 |
| 10°   | 48.7   | 49.8   | 48.9   | 48.7   | 45.4   | 45.3   | 43.1   | 40.1  | 37.4  | 35.9  | 20.1 |
| 12.5° | 134.0  | 139.8  | 130.8  | 126.5  | 123.9  | 114.2  | 110.1  | 99.5  | 89.3  | 81.6  | 25.5 |
| 15°   | 309.3  | 323.5  | 305.4  | 306.6  | 291.5  | 263.9  | 239.6  | 218.8 | 194.2 | 169.4 | 36.5 |
| 17.5° | 606.1  | 594.6  | 584.7  | 568.0  | 537.3  | 496.7  | 444.4  | 391.4 | 345.6 | 297.7 | 50.8 |
| 20°   | 908.2  | 898.0  | 875.5  | 839.1  | 799.9  | 739.7  | 677.6  | 598.0 | 520.9 | 448.7 | 60.7 |
| 21°   | 1012.2 | 1008.8 | 972.0  | 949.5  | 889.2  | 831.7  | 760.0  | 674.9 | 588.1 | 502.6 | 62.3 |
| 22°   | 1105.1 | 1084.6 | 1064.9 | 1031.6 | 971.6  | 909.1  | 829.4  | 739.7 | 645.6 | 550.6 | 62.5 |
| 23°   | 1169.4 | 1160.1 | 1141.4 | 1103.8 | 1044.2 | 970.7  | 886.7  | 792.9 | 693.7 | 584.5 | 62.0 |
| 24°   | 1240.5 | 1228.7 | 1201.4 | 1157.6 | 1097.4 | 1024.8 | 928.9  | 835.8 | 728.1 | 613.1 | 60.5 |
| 25°   | 1300.9 | 1282.4 | 1250.1 | 1202.8 | 1137.1 | 1062.2 | 965.7  | 863.5 | 751.9 | 632.3 | 59.1 |
| 26°   | 1340.1 | 1330.0 | 1288.5 | 1237.1 | 1166.7 | 1089.5 | 991.0  | 884.7 | 767.4 | 641.1 | 56.8 |
| 27°   | 1380.8 | 1362.3 | 1321.6 | 1262.5 | 1186.1 | 1107.3 | 1005.4 | 894.9 | 772.8 | 641.5 | 53.9 |
| 28°   | 1404.2 | 1384.1 | 1337.9 | 1275.8 | 1198.7 | 1117.1 | 1013.7 | 898.2 | 771.7 | 635.9 | 50.5 |
| 29°   | 1411.6 | 1386.2 | 1341.1 | 1277.9 | 1201.7 | 1117.9 | 1012.4 | 893.5 | 762.2 | 622.2 | 46.5 |
| 30°   | 1397.9 | 1372.0 | 1329.3 | 1267.7 | 1192.0 | 1108.9 | 1000.7 | 878.0 | 745.3 | 602.7 | 42.9 |
| 31°   | 1368.1 | 1346.2 | 1304.9 | 1243.1 | 1170.5 | 1087.9 | 974.3  | 852.7 | 716.6 | 576.4 | 38.8 |
| 32°   | 1328.7 | 1307.2 | 1266.6 | 1210.7 | 1136.9 | 1053.5 | 938.2  | 813.2 | 682.8 | 537.3 | 34.7 |
| 33°   | 1269.6 | 1257.3 | 1220.8 | 1167.4 | 1093.6 | 1004.5 | 889.7  | 766.0 | 634.6 | 493.8 | 31.1 |
| 34°   | 1209.8 | 1194.2 | 1168.7 | 1110.3 | 1030.9 | 942.0  | 826.5  | 700.7 | 575.9 | 445.1 | 27.7 |
| 35°   | 1140.8 | 1131.5 | 1091.4 | 1044.7 | 965.0  | 874.1  | 759.3  | 637.3 | 507.5 | 390.9 | 24.3 |
| 36°   | 1074.0 | 1059.7 | 1014.0 | 964.6  | 887.2  | 788.9  | 675.6  | 561.0 | 448.4 | 340.0 | 20.7 |
| 37°   | 977.0  | 955.1  | 922.6  | 870.5  | 780.0  | 696.3  | 592.8  | 486.4 | 375.6 | 285.1 | 16.7 |
| 38°   | 863.0  | 852.7  | 807.6  | 755.2  | 680.3  | 600.9  | 498.5  | 408.3 | 309.9 | 238.0 | 12.8 |
| 39°   | 728.4  | 728.2  | 685.1  | 647.2  | 573.9  | 502.4  | 410.1  | 331.4 | 255.8 | 191.7 | 9.9  |
| 40°   | 614.3  | 593.1  | 566.6  | 519.0  | 462.7  | 402.0  | 321.2  | 259.4 | 198.5 | 154.5 | 7.7  |
| 42.5° | 322.1  | 320.3  | 304.7  | 268.9  | 237.5  | 201.7  | 160.4  | 133.6 | 104.5 | 85.1  | 4.9  |
| 45°   | 138.3  | 139.2  | 128.4  | 123.0  | 110.8  | 95.9   | 81.0   | 67.5  | 57.8  | 46.9  | 2.9  |
| 47.5° | 35.0   | 33.6   | 33.2   | 34.5   | 34.5   | 33.4   | 30.0   | 28.2  | 26.0  | 23.9  | 1.6  |
| 50°   | 15.1   | 14.7   | 14.4   | 14.4   | 13.5   | 12.9   | 12.0   | 11.0  | 10.1  | 9.0   | 0.7  |
| 52.5° | 5.6    | 5.7    | 5.9    | 5.7    | 5.7    | 5.6    | 5.6    | 5.4   | 4.9   | 4.3   | 0.4  |
| 55°   | 1.8    | 1.8    | 1.8    | 2.0    | 2.0    | 2.2    | 2.2    | 2.2   | 2.2   | 2.0   | 0.0  |
| 57.5° | 0.4    | 0.4    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.7   | 0.7   | 0.0  |
| 60°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.0   | 0.0   | 0.0   | 0.0  |
| 62.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2   | 0.2  |
| 65°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2   | 0.2  |
| 67.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2   | 0.2  |
| 70°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2   | 0.2  |
| 72.5° | 0.2    | 0.0    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2   | 0.2   | 0.2   | 0.2  |
| 75°   | 0.0    | 0.0    | 0.0    | 0.2    | 0.0    | 0.2    | 0.2    | 0.0   | 0.2   | 0.2   | 0.2  |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.2   | 0.2  |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.2  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 82.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.2 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.2 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.2 |
| 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):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 0°    | 6.8   | 6.8 | 6.8    | 6.8  | 6.8    | 6.8  |
| 2.5°  | 7.9   | 7.0 | 5.9    | 5.0  | 4.9    | 4.7  |
| 5°    | 8.8   | 6.5 | 4.9    | 4.0  | 3.6    | 3.4  |
| 7.5°  | 9.5   | 5.9 | 4.0    | 2.9  | 2.5    | 2.3  |
| 10°   | 9.9   | 5.2 | 3.2    | 2.2  | 1.6    | 1.6  |
| 12.5° | 10.1  | 4.5 | 2.3    | 1.4  | 0.9    | 0.9  |
| 15°   | 9.9   | 3.8 | 1.8    | 0.7  | 0.2    | 0.2  |
| 17.5° | 9.0   | 3.1 | 1.1    | 0.2  | 0.0    | 0.0  |
| 20°   | 7.7   | 2.5 | 0.7    | 0.0  | 0.0    | 0.0  |
| 21°   | 7.4   | 2.2 | 0.5    | 0.0  | 0.0    | 0.0  |
| 22°   | 6.8   | 2.0 | 0.4    | 0.0  | 0.0    | 0.0  |
| 23°   | 6.3   | 1.8 | 0.4    | 0.0  | 0.0    | 0.0  |
| 24°   | 5.7   | 1.6 | 0.2    | 0.0  | 0.0    | 0.0  |
| 25°   | 5.4   | 1.4 | 0.2    | 0.0  | 0.0    | 0.0  |
| 26°   | 5.0   | 1.3 | 0.2    | 0.0  | 0.0    | 0.0  |
| 27°   | 4.5   | 1.1 | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 4.1   | 0.9 | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 3.6   | 0.7 | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 3.1   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 2.5   | 0.5 | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 2.2   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 1.8   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 1.6   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 1.4   | 0.4 | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 1.1   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 37°   | 0.9   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 38°   | 0.7   | 0.2 | 0.0    | 0.0  | 0.0    | 0.0  |
| 39°   | 0.5   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 0.5   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 42.5° | 0.2   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |
| 45°   | 0.0   | 0.2 | 0.0    | 0.0  | 0.2    | 0.2  |
| 47.5° | 0.0   | 0.2 | 0.0    | 0.0  | 0.2    | 0.4  |
| 50°   | 0.0   | 0.2 | 0.2    | 0.2  | 0.4    | 0.5  |
| 52.5° | 0.0   | 0.4 | 0.2    | 0.2  | 0.5    | 0.5  |
| 55°   | 0.2   | 0.4 | 0.2    | 0.4  | 0.7    | 0.7  |
| 57.5° | 0.2   | 0.4 | 0.4    | 0.5  | 0.7    | 0.9  |
| 60°   | 0.4   | 0.5 | 0.5    | 0.5  | 0.9    | 0.9  |
| 62.5° | 0.4   | 0.5 | 0.7    | 0.7  | 0.9    | 1.1  |
| 65°   | 0.4   | 0.7 | 0.7    | 0.7  | 0.9    | 1.1  |
| 67.5° | 0.5   | 0.7 | 0.7    | 0.7  | 0.9    | 1.1  |
| 70°   | 0.5   | 0.7 | 0.7    | 0.7  | 0.9    | 0.9  |
| 72.5° | 0.5   | 0.7 | 0.5    | 0.7  | 0.7    | 0.9  |
| 75°   | 0.5   | 0.7 | 0.5    | 0.5  | 0.7    | 0.7  |
| 77.5° | 0.4   | 0.5 | 0.5    | 0.4  | 0.5    | 0.5  |
| 80°   | 0.4   | 0.5 | 0.4    | 0.4  | 0.5    | 0.5  |



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**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.4   | 0.5 | 0.4    | 0.2  | 0.4    | 0.4  |
| 85°   | 0.4   | 0.5 | 0.4    | 0.2  | 0.2    | 0.2  |
| 87.5° | 0.4   | 0.5 | 0.4    | 0.2  | 0.0    | 0.2  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)