

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: P1345192

Luminaire Tested: P3A13R30B2750DE010 E3CA451MB\_2700K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1345192  
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: P3A13R30B2750DE010 E3CA451MB\_2700K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R30 optic, 2700K CCT AND, 90CRI , E3CA451MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

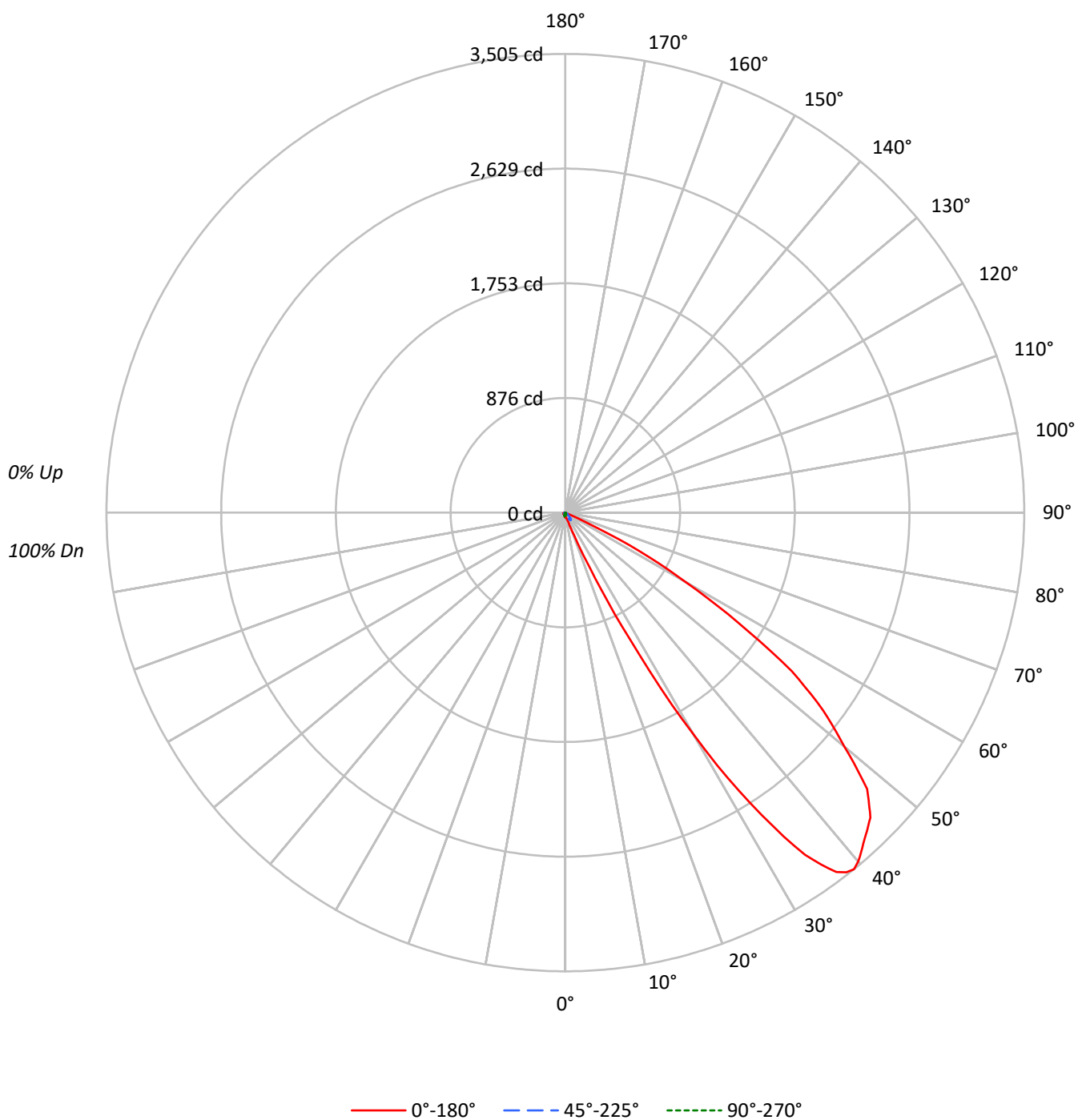
Lumens per Lamp: N/A  
Luminaire Lumens: 911.0 lumens  
Efficiency: N/A  
Efficacy: 47.7 lumens/watt  
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 19.1  
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  | 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°  | 7741    | 7741  | 7741 | 7741 | 7741  |
| 5°  | 8276    | 8100  | 7594 | 6934 | 6758  |
| 10° | 9062    | 8038  | 6658 | 5990 | 5812  |
| 15° | 13235   | 8014  | 5585 | 5062 | 5221  |
| 20° | 33300   | 8774  | 4294 | 4294 | 4830  |
| 25° | 154654  | 10960 | 3339 | 3895 | 4452  |
| 30° | 492380  | 15167 | 2532 | 3697 | 4456  |
| 35° | 854367  | 18498 | 2061 | 3480 | 4524  |
| 40° | 996410  | 18463 | 1546 | 3521 | 4609  |
| 45° | 1021874 | 13087 | 1675 | 3814 | 4993  |
| 50° | 950280  | 7335  | 1296 | 3923 | 5765  |
| 55° | 807656  | 3823  | 1453 | 4396 | 6461  |
| 60° | 466454  | 1009  | 1667 | 4693 | 7061  |
| 65° | 95159   | 0     | 1972 | 5552 | 7939  |
| 70° | 1475    | 513   | 2436 | 6411 | 9361  |
| 75° | 1271    | 678   | 2626 | 6524 | 11014 |
| 80° | 1010    | 1010  | 3915 | 7703 | 12628 |
| 85° | 0       | 2013  | 7799 | 7799 | 15347 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1021874 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.2    | 0.4       |
| 10°-20°   | 9.2    | 1.0       |
| 20°-30°   | 52.5   | 5.8       |
| 30°-40°   | 245.4  | 26.9      |
| 40°-50°   | 347.0  | 38.1      |
| 50°-60°   | 213.5  | 23.4      |
| 60°-70°   | 32.5   | 3.6       |
| 70°-80°   | 5.2    | 0.6       |
| 80°-90°   | 2.6    | 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°    | 64.9   | 7.1       |
| 0°-40°    | 310.3  | 34.1      |
| 0°-60°    | 870.8  | 95.6      |
| 0°-90°    | 911.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 911.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 35   | 35  | 35  | 35   | 35   |      |
| 5°  | 38   | 37  | 34  | 32   | 31   | 4    |
| 15° | 58   | 35  | 25  | 22   | 23   | 21   |
| 25° | 639  | 45  | 14  | 16   | 18   | 393  |
| 35° | 3192 | 69  | 8   | 13   | 17   | 1915 |
| 45° | 3295 | 42  | 5   | 12   | 16   | 2498 |
| 55° | 2113 | 10  | 4   | 12   | 17   | 1798 |
| 65° | 183  | 0   | 4   | 11   | 15   | 332  |
| 75° | 2    | 1   | 3   | 8    | 13   | 2    |
| 85° | 0    | 1   | 3   | 3    | 6    | 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°    | 35.3   | 35.3   | 35.3   | 35.3   | 35.3   | 35.3   | 35.3 | 35.3  | 35.3 | 35.3   | 35.3 |
| 2.5°  | 36.1   | 36.1   | 36.8   | 36.8   | 36.1   | 36.8   | 36.8 | 36.8  | 35.3 | 34.5   | 33.0 |
| 5°    | 37.6   | 37.6   | 37.6   | 38.4   | 37.6   | 37.6   | 36.8 | 36.1  | 34.5 | 32.2   | 31.5 |
| 7.5°  | 39.1   | 39.1   | 38.4   | 39.1   | 38.4   | 38.4   | 36.8 | 35.3  | 33.0 | 30.7   | 29.2 |
| 10°   | 40.7   | 40.7   | 39.9   | 39.9   | 39.1   | 39.1   | 36.1 | 33.8  | 29.9 | 27.6   | 26.9 |
| 12.5° | 45.3   | 45.3   | 44.5   | 43.7   | 42.2   | 41.4   | 35.3 | 31.5  | 26.9 | 24.6   | 23.8 |
| 15°   | 58.3   | 57.6   | 56.0   | 53.7   | 49.9   | 49.1   | 35.3 | 29.2  | 24.6 | 22.3   | 22.3 |
| 17.5° | 79.8   | 79.0   | 76.7   | 70.6   | 63.7   | 61.4   | 35.3 | 26.1  | 21.5 | 20.0   | 20.0 |
| 20°   | 142.7  | 136.6  | 125.1  | 109.7  | 93.6   | 85.2   | 37.6 | 23.0  | 18.4 | 17.6   | 18.4 |
| 21°   | 186.5  | 180.3  | 165.8  | 140.4  | 112.0  | 102.8  | 39.1 | 22.3  | 17.6 | 16.9   | 18.4 |
| 22°   | 254.0  | 247.1  | 217.2  | 182.6  | 142.0  | 125.9  | 39.9 | 20.7  | 16.1 | 16.1   | 17.6 |
| 23°   | 354.5  | 343.0  | 292.4  | 237.1  | 177.3  | 154.2  | 41.4 | 20.0  | 15.3 | 16.1   | 16.9 |
| 24°   | 464.3  | 454.3  | 396.7  | 313.9  | 226.4  | 193.4  | 43.0 | 19.2  | 14.6 | 14.6   | 16.1 |
| 25°   | 639.2  | 627.7  | 525.7  | 396.0  | 287.0  | 232.5  | 45.3 | 17.6  | 13.8 | 13.8   | 16.1 |
| 26°   | 865.6  | 812.7  | 676.8  | 510.3  | 353.8  | 291.6  | 47.6 | 16.9  | 13.0 | 13.8   | 15.3 |
| 27°   | 1080.5 | 1036.7 | 884.0  | 654.6  | 437.4  | 358.4  | 50.6 | 16.1  | 12.3 | 13.0   | 15.3 |
| 28°   | 1362.9 | 1301.5 | 1108.9 | 828.0  | 551.0  | 433.6  | 53.7 | 15.3  | 11.5 | 13.0   | 14.6 |
| 29°   | 1679.0 | 1593.1 | 1360.6 | 1022.9 | 679.1  | 518.0  | 56.8 | 14.6  | 10.7 | 12.3   | 14.6 |
| 30°   | 1944.6 | 1864.0 | 1631.5 | 1253.9 | 826.5  | 629.3  | 59.9 | 13.8  | 10.0 | 12.3   | 14.6 |
| 31°   | 2256.1 | 2134.1 | 1852.5 | 1449.6 | 953.1  | 740.5  | 62.9 | 12.3  | 9.2  | 11.5   | 13.8 |
| 32°   | 2508.6 | 2423.4 | 2124.1 | 1670.6 | 1119.6 | 863.3  | 65.2 | 11.5  | 9.2  | 11.5   | 13.8 |
| 33°   | 2752.6 | 2638.3 | 2349.0 | 1882.4 | 1270.0 | 989.2  | 67.5 | 10.7  | 8.4  | 10.7   | 13.8 |
| 34°   | 2985.9 | 2880.8 | 2561.5 | 2053.5 | 1412.0 | 1108.9 | 69.1 | 9.2   | 8.4  | 10.7   | 13.0 |
| 35°   | 3191.6 | 3069.6 | 2748.8 | 2220.8 | 1557.8 | 1217.8 | 69.1 | 8.4   | 7.7  | 10.0   | 13.0 |
| 36°   | 3325.1 | 3237.6 | 2911.5 | 2385.8 | 1689.8 | 1321.4 | 69.1 | 7.7   | 6.9  | 10.0   | 12.3 |
| 37°   | 3439.4 | 3337.4 | 3041.9 | 2512.4 | 1787.2 | 1404.3 | 69.1 | 6.9   | 6.9  | 10.0   | 12.3 |
| 38°   | 3486.2 | 3398.8 | 3131.7 | 2624.5 | 1878.6 | 1488.7 | 68.3 | 6.1   | 6.1  | 9.2    | 12.3 |
| 39°   | 3504.7 | 3426.4 | 3199.2 | 2705.0 | 1946.1 | 1545.5 | 66.8 | 5.4   | 6.1  | 9.2    | 12.3 |
| 40°   | 3480.9 | 3421.8 | 3233.8 | 2757.2 | 1999.8 | 1587.0 | 64.5 | 4.6   | 5.4  | 9.2    | 12.3 |
| 42.5° | 3382.6 | 3343.5 | 3226.1 | 2809.4 | 2045.9 | 1617.7 | 56.0 | 3.1   | 5.4  | 8.4    | 12.3 |
| 45°   | 3295.2 | 3252.2 | 3148.6 | 2754.9 | 1986.0 | 1557.0 | 42.2 | 1.5   | 5.4  | 8.4    | 12.3 |
| 47.5° | 3125.6 | 3098.7 | 3017.4 | 2616.0 | 1854.8 | 1420.4 | 29.9 | 0.8   | 4.6  | 7.7    | 11.5 |
| 50°   | 2785.6 | 2760.3 | 2652.9 | 2271.5 | 1595.4 | 1201.0 | 21.5 | 0.8   | 3.8  | 7.7    | 11.5 |
| 52.5° | 2481.0 | 2454.1 | 2299.9 | 1888.5 | 1225.5 | 880.2  | 13.8 | 0.8   | 3.8  | 7.7    | 11.5 |
| 55°   | 2112.6 | 2065.8 | 1863.2 | 1433.5 | 868.7  | 590.1  | 10.0 | 0.8   | 3.8  | 6.9    | 11.5 |
| 57.5° | 1563.9 | 1495.6 | 1314.5 | 977.7  | 500.3  | 320.0  | 5.4  | 0.8   | 3.8  | 6.9    | 11.5 |
| 60°   | 1063.6 | 1022.9 | 822.6  | 515.7  | 213.3  | 135.1  | 2.3  | 0.8   | 3.8  | 6.9    | 10.7 |
| 62.5° | 644.6  | 593.2  | 413.6  | 219.5  | 92.1   | 61.4   | 0.0  | 1.5   | 3.8  | 6.9    | 10.7 |
| 65°   | 183.4  | 162.7  | 108.2  | 49.9   | 26.1   | 20.0   | 0.0  | 1.5   | 3.8  | 6.9    | 10.7 |
| 67.5° | 6.1    | 6.1    | 6.1    | 5.4    | 3.8    | 3.8    | 0.8  | 1.5   | 3.8  | 6.9    | 10.0 |
| 70°   | 2.3    | 2.3    | 2.3    | 1.5    | 1.5    | 0.8    | 0.8  | 1.5   | 3.8  | 6.1    | 10.0 |
| 72.5° | 1.5    | 1.5    | 1.5    | 1.5    | 0.8    | 0.8    | 0.8  | 1.5   | 3.1  | 5.4    | 9.2  |
| 75°   | 1.5    | 1.5    | 1.5    | 0.8    | 0.8    | 0.8    | 0.8  | 2.3   | 3.1  | 5.4    | 7.7  |
| 77.5° | 1.5    | 1.5    | 1.5    | 0.8    | 0.8    | 0.8    | 0.8  | 2.3   | 3.1  | 4.6    | 7.7  |
| 80°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8  | 2.3   | 3.1  | 4.6    | 6.1  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-----|-----|-----|-----|-----|-------|-----|-------|-----|--------|------|
| 82.5° | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0   | 0.8 | 2.3   | 3.1 | 3.1    | 4.6  |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.8 | 2.3   | 3.1 | 2.3    | 3.1  |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.8 | 2.3   | 2.3 | 2.3    | 1.5  |
| 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°    | 35.3   | 35.3 |
| 2.5°  | 33.0   | 33.0 |
| 5°    | 30.7   | 30.7 |
| 7.5°  | 28.4   | 28.4 |
| 10°   | 26.1   | 26.1 |
| 12.5° | 24.6   | 24.6 |
| 15°   | 22.3   | 23.0 |
| 17.5° | 20.7   | 21.5 |
| 20°   | 20.0   | 20.7 |
| 21°   | 20.0   | 20.7 |
| 22°   | 19.2   | 20.0 |
| 23°   | 19.2   | 20.0 |
| 24°   | 18.4   | 19.2 |
| 25°   | 17.6   | 18.4 |
| 26°   | 17.6   | 18.4 |
| 27°   | 17.6   | 18.4 |
| 28°   | 16.9   | 18.4 |
| 29°   | 16.9   | 17.6 |
| 30°   | 16.9   | 17.6 |
| 31°   | 16.1   | 17.6 |
| 32°   | 16.1   | 17.6 |
| 33°   | 16.1   | 16.9 |
| 34°   | 15.3   | 16.9 |
| 35°   | 15.3   | 16.9 |
| 36°   | 15.3   | 16.9 |
| 37°   | 15.3   | 16.1 |
| 38°   | 15.3   | 16.9 |
| 39°   | 15.3   | 16.1 |
| 40°   | 15.3   | 16.1 |
| 42.5° | 15.3   | 16.1 |
| 45°   | 15.3   | 16.1 |
| 47.5° | 15.3   | 16.9 |
| 50°   | 15.3   | 16.9 |
| 52.5° | 15.3   | 16.9 |
| 55°   | 15.3   | 16.9 |
| 57.5° | 15.3   | 16.1 |
| 60°   | 15.3   | 16.1 |
| 62.5° | 14.6   | 16.1 |
| 65°   | 14.6   | 15.3 |
| 67.5° | 14.6   | 15.3 |
| 70°   | 13.8   | 14.6 |
| 72.5° | 13.0   | 13.8 |
| 75°   | 11.5   | 13.0 |
| 77.5° | 10.7   | 11.5 |
| 80°   | 9.2    | 10.0 |



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CATALOG NUMBER: P3A13R30B2750DE010 E3CA451MB\_2700K

**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 82.5° | 7.7    | 7.7  |
| 85°   | 5.4    | 6.1  |
| 87.5° | 3.1    | 3.1  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)