

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: P1343583

Luminaire Tested: P3A13R159835DE010 E3CA301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1343583  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R159835DE010 E3CA301MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , E3CA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

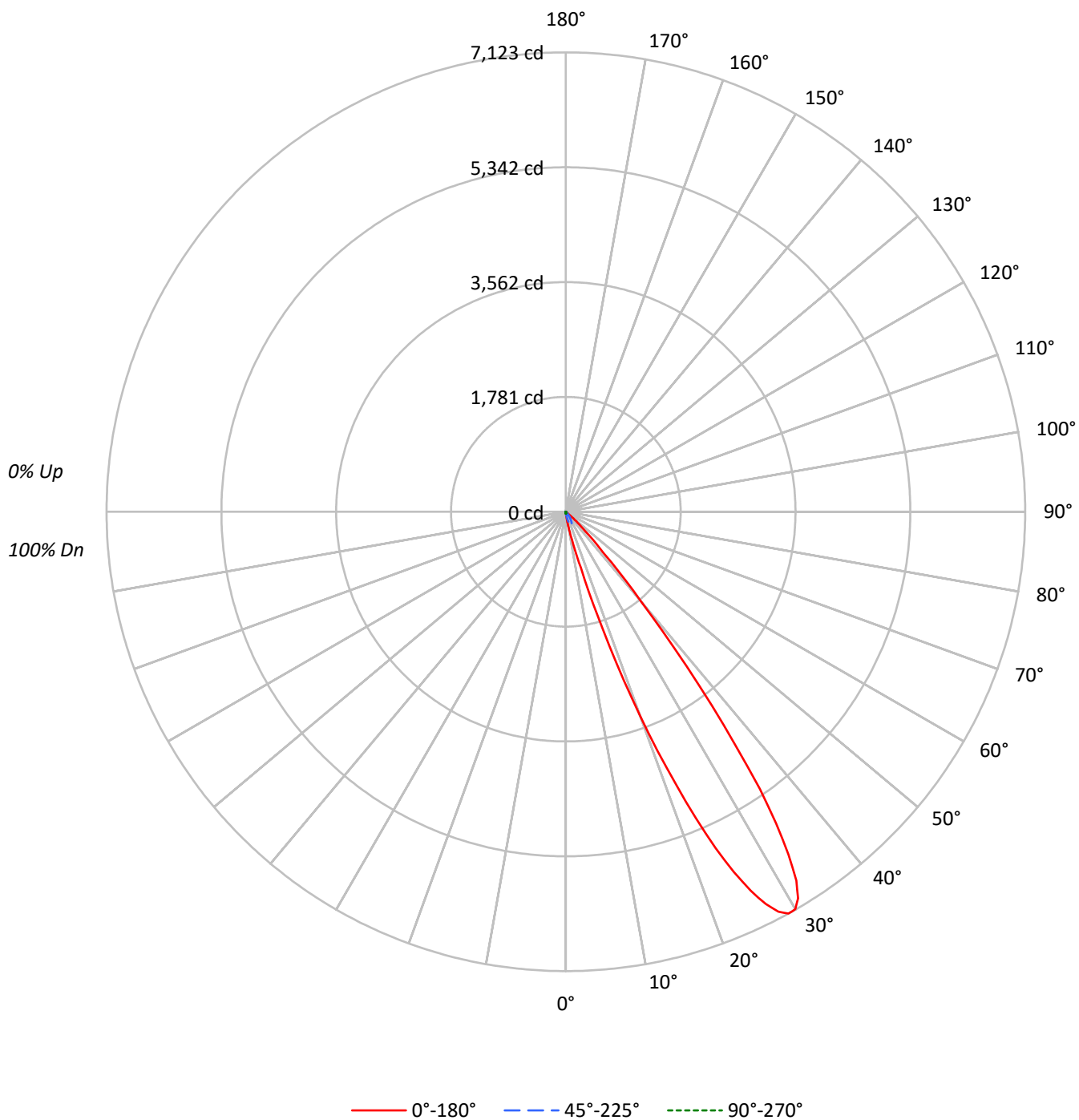
Lumens per Lamp: N/A  
Luminaire Lumens: 778.0 lumens  
Efficiency: N/A  
Efficacy: 53.7 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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: P1343583

CATALOG NUMBER: P3A13R159835DE010 E3CA301MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1343583

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |  | 20  |     |     |  | 20  |     |     |     |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 10  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| 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  | 75  | 71  |  | 79  | 74  | 70  |  | 77  | 73  | 70  | 68  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 69  | 64  |  | 72  | 67  | 64  |  | 71  | 66  | 63  | 61  |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  |  | 67  | 61  | 57  |  | 65  | 61  | 57  | 55  |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 53  | 63  | 57  | 52  |  | 61  | 56  | 52  |  | 60  | 55  | 52  | 50  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 47  | 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  | 42  | 41  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  |  | 48  | 43  | 39  |  | 47  | 42  | 39  | 37  |

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

|     | 0°      | 45°   | 90°  | 135° | 180° |
|-----|---------|-------|------|------|------|
| 0°  | 5636    | 5636  | 5636 | 5636 | 5636 |
| 5°  | 12151   | 9003  | 5327 | 2840 | 2333 |
| 10° | 53929   | 17011 | 4208 | 1180 | 846  |
| 15° | 203929  | 39342 | 2929 | 522  | 341  |
| 20° | 784278  | 55445 | 1773 | 187  | 187  |
| 25° | 1491401 | 51995 | 919  | 0    | 0    |
| 30° | 1801644 | 41956 | 380  | 0    | 0    |
| 35° | 1405170 | 28563 | 214  | 0    | 0    |
| 40° | 512761  | 14084 | 229  | 0    | 229  |
| 45° | 131673  | 4217  | 248  | 0    | 465  |
| 50° | 22208   | 512   | 273  | 273  | 785  |
| 55° | 2906    | 0     | 573  | 879  | 1453 |
| 60° | 351     | 351   | 1009 | 1316 | 1974 |
| 65° | 415     | 415   | 1557 | 1972 | 2335 |
| 70° | 513     | 513   | 1923 | 1923 | 2436 |
| 75° | 678     | 678   | 2542 | 1949 | 2542 |
| 80° | 0       | 1010  | 2904 | 1894 | 2904 |
| 85° | 0       | 2013  | 5787 | 2013 | 2013 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 131673 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.5    | 0.5       |
| 10°-20°   | 59.6   | 7.7       |
| 20°-30°   | 330.7  | 42.5      |
| 30°-40°   | 319.4  | 41.1      |
| 40°-50°   | 55.6   | 7.1       |
| 50°-60°   | 4.0    | 0.5       |
| 60°-70°   | 2.3    | 0.3       |
| 70°-80°   | 1.9    | 0.2       |
| 80°-90°   | 1.0    | 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°    | 393.8  | 50.6      |
| 0°-40°    | 713.2  | 91.7      |
| 0°-60°    | 772.8  | 99.3      |
| 0°-90°    | 778.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 778.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 26   | 26  | 26  | 26   | 26   |      |
| 5°  | 55   | 41  | 24  | 13   | 11   | 11   |
| 15° | 898  | 173 | 13  | 2    | 2    | 400  |
| 25° | 6164 | 215 | 4   | 0    | 0    | 2756 |
| 35° | 5249 | 107 | 1   | 0    | 0    | 3019 |
| 45° | 425  | 14  | 1   | 0    | 2    | 456  |
| 55° | 8    | 0   | 2   | 2    | 4    | 15   |
| 65° | 1    | 1   | 3   | 4    | 4    | 1    |
| 75° | 1    | 1   | 3   | 2    | 3    | 1    |
| 85° | 0    | 1   | 2   | 1    | 1    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 22.5°  | 45°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 25.7   | 25.7   | 25.7   | 25.7   | 25.7   | 25.7   | 25.7   | 25.7   | 25.7   | 25.7   | 25.7  |
| 2.5°  | 37.8   | 36.3   | 37.1   | 37.1   | 37.1   | 37.1   | 37.1   | 35.6   | 35.6   | 36.3   | 32.5  |
| 5°    | 55.2   | 55.2   | 54.5   | 55.2   | 55.2   | 54.5   | 53.0   | 52.2   | 52.2   | 50.7   | 40.9  |
| 7.5°  | 110.5  | 109.0  | 109.0  | 107.5  | 99.9   | 97.6   | 96.1   | 92.3   | 85.5   | 84.0   | 53.0  |
| 10°   | 242.2  | 242.9  | 237.6  | 230.8  | 230.1  | 218.7  | 214.9  | 208.1  | 195.3  | 182.4  | 76.4  |
| 12.5° | 439.7  | 429.9  | 417.0  | 417.8  | 395.8  | 388.2  | 370.8  | 351.9  | 332.2  | 311.8  | 125.6 |
| 15°   | 898.3  | 870.3  | 887.0  | 846.1  | 799.9  | 747.7  | 694.7  | 628.1  | 571.4  | 510.8  | 173.3 |
| 17.5° | 1892.0 | 1919.2 | 1873.1 | 1698.3 | 1590.8 | 1464.4 | 1286.6 | 1114.8 | 967.9  | 849.9  | 211.9 |
| 20°   | 3360.9 | 3401.1 | 3244.4 | 3092.3 | 2831.2 | 2546.6 | 2250.0 | 1913.9 | 1592.3 | 1313.8 | 237.6 |
| 21°   | 3974.7 | 3950.5 | 3886.2 | 3642.5 | 3341.3 | 3011.3 | 2648.0 | 2277.2 | 1887.5 | 1525.7 | 239.9 |
| 22°   | 4568.0 | 4579.4 | 4429.5 | 4174.5 | 3861.2 | 3495.7 | 3052.2 | 2594.3 | 2174.3 | 1698.3 | 236.1 |
| 23°   | 5159.1 | 5195.4 | 4997.1 | 4758.0 | 4363.7 | 3951.2 | 3438.1 | 2943.9 | 2424.8 | 1895.8 | 228.6 |
| 24°   | 5706.3 | 5681.3 | 5547.3 | 5246.1 | 4824.6 | 4341.8 | 3809.0 | 3209.6 | 2630.6 | 2064.5 | 222.5 |
| 25°   | 6164.1 | 6161.1 | 5950.7 | 5657.8 | 5175.7 | 4640.7 | 4053.4 | 3426.8 | 2807.0 | 2178.8 | 214.9 |
| 26°   | 6538.7 | 6477.4 | 6311.7 | 5954.5 | 5478.5 | 4913.9 | 4254.0 | 3585.0 | 2906.1 | 2236.3 | 207.4 |
| 27°   | 6827.8 | 6783.9 | 6561.4 | 6189.9 | 5692.6 | 5068.3 | 4382.6 | 3663.7 | 2951.5 | 2255.3 | 197.5 |
| 28°   | 7022.3 | 6974.7 | 6737.8 | 6354.8 | 5810.7 | 5165.1 | 4450.7 | 3697.0 | 2951.5 | 2237.1 | 188.4 |
| 29°   | 7123.0 | 7057.9 | 6821.8 | 6411.6 | 5837.9 | 5176.5 | 4434.1 | 3664.4 | 2905.3 | 2181.1 | 177.8 |
| 30°   | 7115.4 | 7034.4 | 6787.0 | 6360.1 | 5757.0 | 5083.4 | 4341.0 | 3547.1 | 2800.9 | 2097.8 | 165.7 |
| 31°   | 6992.8 | 6902.0 | 6625.8 | 6186.1 | 5589.7 | 4907.8 | 4165.4 | 3389.7 | 2657.9 | 1989.6 | 153.6 |
| 32°   | 6743.8 | 6628.8 | 6359.4 | 5921.2 | 5332.4 | 4645.2 | 3910.4 | 3146.8 | 2443.7 | 1831.5 | 140.8 |
| 33°   | 6338.2 | 6222.4 | 5933.3 | 5522.4 | 4984.3 | 4312.2 | 3572.1 | 2885.7 | 2200.0 | 1643.0 | 130.2 |
| 34°   | 5830.4 | 5724.4 | 5475.4 | 5061.5 | 4545.3 | 3890.7 | 3183.1 | 2524.7 | 1947.2 | 1456.1 | 118.8 |
| 35°   | 5249.2 | 5080.4 | 4854.9 | 4527.2 | 4023.9 | 3365.5 | 2763.1 | 2188.7 | 1686.9 | 1260.1 | 106.7 |
| 36°   | 4462.8 | 4493.1 | 4254.0 | 3852.9 | 3435.9 | 2919.7 | 2341.5 | 1824.6 | 1410.7 | 1073.9 | 96.1  |
| 37°   | 3765.8 | 3718.2 | 3566.0 | 3255.7 | 2892.5 | 2380.1 | 1962.4 | 1546.9 | 1186.7 | 908.2  | 84.8  |
| 38°   | 3037.8 | 3048.4 | 2899.3 | 2660.9 | 2300.7 | 1957.1 | 1579.4 | 1270.7 | 992.9  | 772.7  | 74.2  |
| 39°   | 2377.9 | 2369.5 | 2329.4 | 2108.4 | 1782.3 | 1556.7 | 1279.7 | 1053.5 | 827.2  | 651.6  | 62.8  |
| 40°   | 1791.3 | 1805.0 | 1711.1 | 1577.9 | 1388.0 | 1202.6 | 1019.4 | 840.0  | 684.1  | 549.4  | 49.2  |
| 42.5° | 871.1  | 892.3  | 830.2  | 796.2  | 712.1  | 639.5  | 539.6  | 440.5  | 374.6  | 323.9  | 21.9  |
| 45°   | 424.6  | 412.5  | 407.2  | 390.5  | 370.8  | 331.5  | 293.6  | 252.0  | 220.2  | 190.0  | 13.6  |
| 47.5° | 217.2  | 211.1  | 211.1  | 204.3  | 197.5  | 184.7  | 165.7  | 152.1  | 137.0  | 118.1  | 5.3   |
| 50°   | 65.1   | 64.3   | 63.6   | 64.3   | 62.1   | 64.3   | 65.8   | 66.6   | 60.5   | 59.8   | 1.5   |
| 52.5° | 25.7   | 26.5   | 25.7   | 28.0   | 28.0   | 27.2   | 28.0   | 27.2   | 26.5   | 23.5   | 0.0   |
| 55°   | 7.6    | 7.6    | 7.6    | 7.6    | 7.6    | 7.6    | 8.3    | 9.1    | 8.3    | 9.1    | 0.0   |
| 57.5° | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 0.0   |
| 60°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.0    | 0.8   |
| 62.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   |
| 65°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   |
| 67.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   |
| 70°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   |
| 72.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   |
| 75°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8   |



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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   | 0.8 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.8 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.8 |
| 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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CATALOG NUMBER: P3A13R159835DE010 E3CA301MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 25.7  | 25.7 | 25.7   | 25.7 | 25.7   | 25.7 |
| 2.5°  | 30.3  | 26.5 | 21.9   | 18.2 | 16.6   | 15.9 |
| 5°    | 32.5  | 24.2 | 16.6   | 12.9 | 11.4   | 10.6 |
| 7.5°  | 34.8  | 21.9 | 12.9   | 9.1  | 6.8    | 6.1  |
| 10°   | 36.3  | 18.9 | 9.8    | 5.3  | 3.8    | 3.8  |
| 12.5° | 36.3  | 15.1 | 6.8    | 3.0  | 2.3    | 2.3  |
| 15°   | 35.6  | 12.9 | 4.5    | 2.3  | 1.5    | 1.5  |
| 17.5° | 34.8  | 9.8  | 3.0    | 1.5  | 0.8    | 1.5  |
| 20°   | 32.5  | 7.6  | 1.5    | 0.8  | 0.8    | 0.8  |
| 21°   | 31.8  | 6.8  | 1.5    | 0.8  | 0.8    | 0.8  |
| 22°   | 30.3  | 6.1  | 0.8    | 0.0  | 0.8    | 0.8  |
| 23°   | 28.8  | 4.5  | 0.8    | 0.0  | 0.0    | 0.0  |
| 24°   | 26.5  | 3.8  | 0.8    | 0.0  | 0.0    | 0.0  |
| 25°   | 25.0  | 3.8  | 0.8    | 0.0  | 0.0    | 0.0  |
| 26°   | 23.5  | 2.3  | 0.0    | 0.0  | 0.0    | 0.0  |
| 27°   | 21.2  | 1.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 19.7  | 1.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 17.4  | 1.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 15.1  | 1.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 12.1  | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 9.8   | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 6.8   | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 4.5   | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 3.8   | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 2.3   | 0.8  | 0.0    | 0.0  | 0.0    | 0.8  |
| 37°   | 2.3   | 0.8  | 0.0    | 0.0  | 0.0    | 0.8  |
| 38°   | 1.5   | 0.8  | 0.0    | 0.0  | 0.0    | 0.8  |
| 39°   | 0.8   | 0.8  | 0.0    | 0.0  | 0.0    | 0.8  |
| 40°   | 0.8   | 0.8  | 0.0    | 0.0  | 0.0    | 0.8  |
| 42.5° | 0.0   | 0.8  | 0.0    | 0.0  | 0.8    | 1.5  |
| 45°   | 0.0   | 0.8  | 0.0    | 0.0  | 0.8    | 1.5  |
| 47.5° | 0.0   | 0.8  | 0.0    | 0.0  | 1.5    | 1.5  |
| 50°   | 0.0   | 0.8  | 0.8    | 0.8  | 1.5    | 2.3  |
| 52.5° | 0.0   | 1.5  | 0.8    | 1.5  | 2.3    | 3.0  |
| 55°   | 0.8   | 1.5  | 1.5    | 2.3  | 3.0    | 3.8  |
| 57.5° | 0.8   | 2.3  | 2.3    | 3.0  | 3.8    | 3.8  |
| 60°   | 1.5   | 2.3  | 3.0    | 3.0  | 4.5    | 4.5  |
| 62.5° | 1.5   | 3.0  | 3.0    | 3.0  | 4.5    | 4.5  |
| 65°   | 1.5   | 3.0  | 3.0    | 3.8  | 4.5    | 4.5  |
| 67.5° | 1.5   | 3.0  | 3.0    | 3.0  | 3.8    | 4.5  |
| 70°   | 1.5   | 3.0  | 2.3    | 3.0  | 3.8    | 3.8  |
| 72.5° | 1.5   | 3.0  | 2.3    | 2.3  | 3.0    | 3.8  |
| 75°   | 1.5   | 3.0  | 2.3    | 2.3  | 3.0    | 3.0  |
| 77.5° | 1.5   | 2.3  | 2.3    | 1.5  | 2.3    | 2.3  |
| 80°   | 1.5   | 2.3  | 1.5    | 1.5  | 2.3    | 2.3  |



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CATALOG NUMBER: P3A13R159835DE010 E3CA301MW

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 1.5   | 2.3 | 1.5    | 0.8  | 1.5    | 1.5  |
| 85°   | 1.5   | 2.3 | 1.5    | 0.8  | 0.8    | 0.8  |
| 87.5° | 1.5   | 2.3 | 0.8    | 0.0  | 0.0    | 0.8  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)