

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: P1343407

Luminaire Tested: P3A13R159030D2WDE010 E3A301WH

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1343407  
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: P3A13R159030D2WDE010 E3A301WH  
Description: 3in Adjustable Dim to Warm LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,  
E3A301WH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

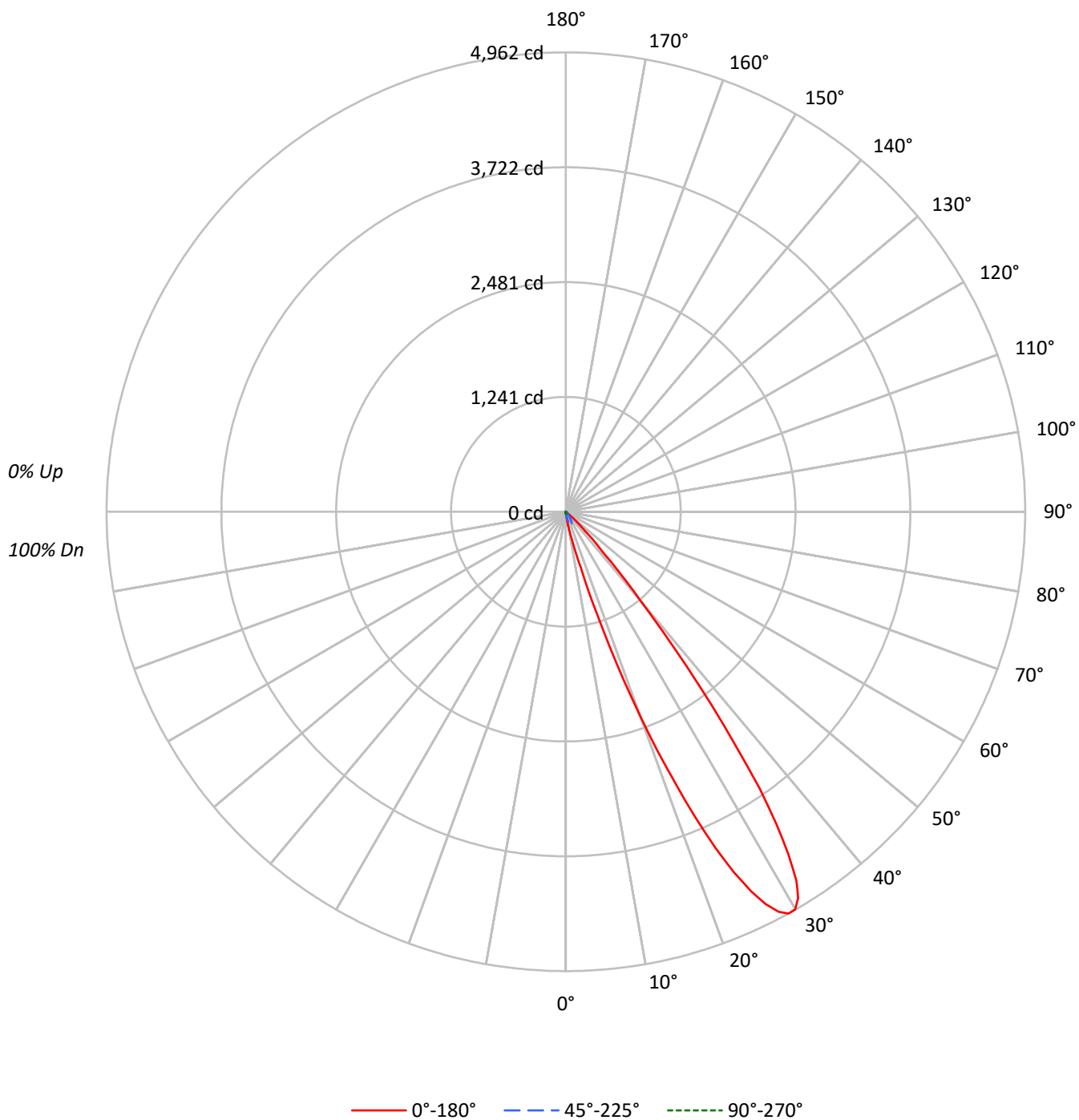
Lumens per Lamp: N/A  
Luminaire Lumens: 542.0 lumens  
Efficiency: N/A  
Efficacy: 27.0 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.1  
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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CATALOG NUMBER: P3A13R159030D2WDE010 E3A301WH

### 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  | 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  | 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  | 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°  | 3925    | 3925  | 3925 | 3925 | 3925 |
| 5°  | 8475    | 6273  | 3720 | 1981 | 1629 |
| 10° | 37563   | 11868 | 2939 | 824  | 579  |
| 15° | 142067  | 27401 | 2043 | 363  | 250  |
| 20° | 546374  | 38643 | 1237 | 117  | 117  |
| 25° | 1039004 | 36220 | 629  | 0    | 0    |
| 30° | 1255130 | 29245 | 279  | 0    | 0    |
| 35° | 978924  | 19890 | 134  | 0    | 0    |
| 40° | 357241  | 9818  | 143  | 0    | 143  |
| 45° | 91730   | 2946  | 155  | 0    | 341  |
| 50° | 15454   | 375   | 171  | 171  | 546  |
| 55° | 2026    | 0     | 421  | 612  | 994  |
| 60° | 219     | 219   | 702  | 921  | 1403 |
| 65° | 259     | 259   | 1090 | 1349 | 1660 |
| 70° | 321     | 321   | 1346 | 1346 | 1667 |
| 75° | 424     | 424   | 1779 | 1356 | 1779 |
| 80° | 0       | 631   | 2020 | 1389 | 2020 |
| 85° | 0       | 1258  | 4026 | 1258 | 1258 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 91730 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.5    | 0.5       |
| 10°-20°   | 41.5   | 7.7       |
| 20°-30°   | 230.4  | 42.5      |
| 30°-40°   | 222.5  | 41.1      |
| 40°-50°   | 38.7   | 7.1       |
| 50°-60°   | 2.8    | 0.5       |
| 60°-70°   | 1.6    | 0.3       |
| 70°-80°   | 1.3    | 0.2       |
| 80°-90°   | 0.7    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 274.3  | 50.6      |
| 0°-40°    | 496.9  | 91.7      |
| 0°-60°    | 538.4  | 99.3      |
| 0°-90°    | 542.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 542.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 18   | 18  | 18  | 18   | 18   |      |
| 5°  | 38   | 28  | 17  | 9    | 7    | 8    |
| 15° | 626  | 121 | 9   | 2    | 1    | 279  |
| 25° | 4294 | 150 | 3   | 0    | 0    | 1920 |
| 35° | 3657 | 74  | 0   | 0    | 0    | 2103 |
| 45° | 296  | 10  | 0   | 0    | 1    | 318  |
| 55° | 5    | 0   | 1   | 2    | 3    | 10   |
| 65° | 0    | 0   | 2   | 3    | 3    | 0    |
| 75° | 0    | 0   | 2   | 2    | 2    | 0    |
| 85° | 0    | 0   | 2   | 0    | 0    | 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°    | 17.9   | 17.9   | 17.9   | 17.9   | 17.9   | 17.9   | 17.9   | 17.9   | 17.9   | 17.9   | 17.9  |
| 2.5°  | 26.4   | 25.3   | 25.8   | 25.8   | 25.8   | 25.8   | 25.8   | 24.8   | 24.8   | 25.3   | 22.7  |
| 5°    | 38.5   | 38.5   | 38.0   | 38.5   | 38.5   | 38.0   | 36.9   | 36.4   | 36.4   | 35.3   | 28.5  |
| 7.5°  | 77.0   | 75.9   | 75.9   | 74.9   | 69.6   | 68.0   | 67.0   | 64.3   | 59.6   | 58.5   | 36.9  |
| 10°   | 168.7  | 169.2  | 165.6  | 160.8  | 160.3  | 152.4  | 149.7  | 145.0  | 136.0  | 127.1  | 53.3  |
| 12.5° | 306.3  | 299.5  | 290.5  | 291.0  | 275.7  | 270.5  | 258.3  | 245.2  | 231.5  | 217.2  | 87.5  |
| 15°   | 625.8  | 606.3  | 617.9  | 589.4  | 557.3  | 520.9  | 484.0  | 437.6  | 398.1  | 355.9  | 120.7 |
| 17.5° | 1318.1 | 1337.1 | 1304.9 | 1183.1 | 1108.2 | 1020.2 | 896.3  | 776.6  | 674.3  | 592.1  | 147.6 |
| 20°   | 2341.4 | 2369.4 | 2260.2 | 2154.3 | 1972.4 | 1774.1 | 1567.5 | 1333.4 | 1109.3 | 915.3  | 165.6 |
| 21°   | 2769.0 | 2752.1 | 2707.3 | 2537.6 | 2327.7 | 2097.8 | 1844.8 | 1586.4 | 1314.9 | 1062.9 | 167.1 |
| 22°   | 3182.4 | 3190.3 | 3085.9 | 2908.2 | 2689.9 | 2435.3 | 2126.3 | 1807.3 | 1514.7 | 1183.1 | 164.5 |
| 23°   | 3594.1 | 3619.4 | 3481.3 | 3314.7 | 3040.0 | 2752.7 | 2395.2 | 2050.9 | 1689.2 | 1320.7 | 159.2 |
| 24°   | 3975.3 | 3957.9 | 3864.6 | 3654.8 | 3361.1 | 3024.7 | 2653.5 | 2236.0 | 1832.7 | 1438.3 | 155.0 |
| 25°   | 4294.3 | 4292.2 | 4145.6 | 3941.6 | 3605.7 | 3233.0 | 2823.8 | 2387.3 | 1955.5 | 1517.9 | 149.7 |
| 26°   | 4555.3 | 4512.6 | 4397.1 | 4148.2 | 3816.6 | 3423.3 | 2963.6 | 2497.5 | 2024.6 | 1558.0 | 144.5 |
| 27°   | 4756.7 | 4726.1 | 4571.1 | 4312.2 | 3965.8 | 3530.9 | 3053.2 | 2552.3 | 2056.2 | 1571.1 | 137.6 |
| 28°   | 4892.2 | 4858.9 | 4693.9 | 4427.1 | 4048.1 | 3598.3 | 3100.6 | 2575.5 | 2056.2 | 1558.5 | 131.3 |
| 29°   | 4962.3 | 4916.9 | 4752.4 | 4466.7 | 4067.1 | 3606.3 | 3089.0 | 2552.8 | 2024.0 | 1519.5 | 123.9 |
| 30°   | 4957.0 | 4900.6 | 4728.2 | 4430.8 | 4010.6 | 3541.4 | 3024.2 | 2471.1 | 1951.3 | 1461.5 | 115.5 |
| 31°   | 4871.6 | 4808.3 | 4615.9 | 4309.6 | 3894.1 | 3419.1 | 2901.9 | 2361.5 | 1851.6 | 1386.1 | 107.0 |
| 32°   | 4698.1 | 4618.0 | 4430.3 | 4125.0 | 3714.9 | 3236.1 | 2724.2 | 2192.2 | 1702.4 | 1275.9 | 98.1  |
| 33°   | 4415.5 | 4334.9 | 4133.5 | 3847.2 | 3472.3 | 3004.2 | 2488.5 | 2010.3 | 1532.7 | 1144.6 | 90.7  |
| 34°   | 4061.8 | 3988.0 | 3814.5 | 3526.1 | 3166.5 | 2710.5 | 2217.5 | 1758.8 | 1356.6 | 1014.4 | 82.8  |
| 35°   | 3656.9 | 3539.3 | 3382.2 | 3153.9 | 2803.3 | 2344.6 | 1924.9 | 1524.7 | 1175.2 | 877.8  | 74.3  |
| 36°   | 3109.1 | 3130.2 | 2963.6 | 2684.1 | 2393.6 | 2034.1 | 1631.2 | 1271.2 | 982.8  | 748.1  | 67.0  |
| 37°   | 2623.5 | 2590.3 | 2484.3 | 2268.1 | 2015.1 | 1658.1 | 1367.1 | 1077.7 | 826.7  | 632.7  | 59.0  |
| 38°   | 2116.3 | 2123.7 | 2019.8 | 1853.7 | 1602.8 | 1363.4 | 1100.3 | 885.2  | 691.7  | 538.3  | 51.7  |
| 39°   | 1656.6 | 1650.8 | 1622.8 | 1468.9 | 1241.6 | 1084.5 | 891.5  | 733.9  | 576.3  | 453.9  | 43.8  |
| 40°   | 1248.0 | 1257.4 | 1192.1 | 1099.3 | 966.9  | 837.8  | 710.2  | 585.2  | 476.6  | 382.8  | 34.3  |
| 42.5° | 606.8  | 621.6  | 578.4  | 554.6  | 496.1  | 445.5  | 375.9  | 306.8  | 261.0  | 225.7  | 15.3  |
| 45°   | 295.8  | 287.3  | 283.6  | 272.1  | 258.3  | 230.9  | 204.6  | 175.6  | 153.4  | 132.3  | 9.5   |
| 47.5° | 151.3  | 147.1  | 147.1  | 142.4  | 137.6  | 128.6  | 115.5  | 106.0  | 95.4   | 82.2   | 3.7   |
| 50°   | 45.3   | 44.8   | 44.3   | 44.8   | 43.2   | 44.8   | 45.9   | 46.4   | 42.2   | 41.7   | 1.1   |
| 52.5° | 17.9   | 18.5   | 17.9   | 19.5   | 19.5   | 19.0   | 19.5   | 19.0   | 18.5   | 16.3   | 0.0   |
| 55°   | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.8    | 6.3    | 5.8    | 6.3    | 0.0   |
| 57.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 0.0   |
| 60°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.0    | 0.5   |
| 62.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   |
| 65°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   |
| 67.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   |
| 70°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   |
| 72.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   |
| 75°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5   |



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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   | 0.5 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.5 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.5 |
| 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):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 17.9  | 17.9 | 17.9   | 17.9 | 17.9   | 17.9 |
| 2.5°  | 21.1  | 18.5 | 15.3   | 12.7 | 11.6   | 11.1 |
| 5°    | 22.7  | 16.9 | 11.6   | 9.0  | 7.9    | 7.4  |
| 7.5°  | 24.3  | 15.3 | 9.0    | 6.3  | 4.7    | 4.2  |
| 10°   | 25.3  | 13.2 | 6.9    | 3.7  | 2.6    | 2.6  |
| 12.5° | 25.3  | 10.5 | 4.7    | 2.1  | 1.6    | 1.6  |
| 15°   | 24.8  | 9.0  | 3.2    | 1.6  | 1.1    | 1.1  |
| 17.5° | 24.3  | 6.9  | 2.1    | 1.1  | 0.5    | 1.1  |
| 20°   | 22.7  | 5.3  | 1.1    | 0.5  | 0.5    | 0.5  |
| 21°   | 22.1  | 4.7  | 1.1    | 0.5  | 0.5    | 0.5  |
| 22°   | 21.1  | 4.2  | 0.5    | 0.0  | 0.5    | 0.5  |
| 23°   | 20.0  | 3.2  | 0.5    | 0.0  | 0.0    | 0.0  |
| 24°   | 18.5  | 2.6  | 0.5    | 0.0  | 0.0    | 0.0  |
| 25°   | 17.4  | 2.6  | 0.5    | 0.0  | 0.0    | 0.0  |
| 26°   | 16.3  | 1.6  | 0.0    | 0.0  | 0.0    | 0.0  |
| 27°   | 14.8  | 1.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 13.7  | 1.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 12.1  | 1.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 10.5  | 1.1  | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 8.4   | 0.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 6.9   | 0.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 4.7   | 0.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 3.2   | 0.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 2.6   | 0.5  | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 1.6   | 0.5  | 0.0    | 0.0  | 0.0    | 0.5  |
| 37°   | 1.6   | 0.5  | 0.0    | 0.0  | 0.0    | 0.5  |
| 38°   | 1.1   | 0.5  | 0.0    | 0.0  | 0.0    | 0.5  |
| 39°   | 0.5   | 0.5  | 0.0    | 0.0  | 0.0    | 0.5  |
| 40°   | 0.5   | 0.5  | 0.0    | 0.0  | 0.0    | 0.5  |
| 42.5° | 0.0   | 0.5  | 0.0    | 0.0  | 0.5    | 1.1  |
| 45°   | 0.0   | 0.5  | 0.0    | 0.0  | 0.5    | 1.1  |
| 47.5° | 0.0   | 0.5  | 0.0    | 0.0  | 1.1    | 1.1  |
| 50°   | 0.0   | 0.5  | 0.5    | 0.5  | 1.1    | 1.6  |
| 52.5° | 0.0   | 1.1  | 0.5    | 1.1  | 1.6    | 2.1  |
| 55°   | 0.5   | 1.1  | 1.1    | 1.6  | 2.1    | 2.6  |
| 57.5° | 0.5   | 1.6  | 1.6    | 2.1  | 2.6    | 2.6  |
| 60°   | 1.1   | 1.6  | 2.1    | 2.1  | 3.2    | 3.2  |
| 62.5° | 1.1   | 2.1  | 2.1    | 2.1  | 3.2    | 3.2  |
| 65°   | 1.1   | 2.1  | 2.1    | 2.6  | 3.2    | 3.2  |
| 67.5° | 1.1   | 2.1  | 2.1    | 2.1  | 2.6    | 3.2  |
| 70°   | 1.1   | 2.1  | 1.6    | 2.1  | 2.6    | 2.6  |
| 72.5° | 1.1   | 2.1  | 1.6    | 1.6  | 2.1    | 2.6  |
| 75°   | 1.1   | 2.1  | 1.6    | 1.6  | 2.1    | 2.1  |
| 77.5° | 1.1   | 1.6  | 1.6    | 1.1  | 1.6    | 1.6  |
| 80°   | 1.1   | 1.6  | 1.1    | 1.1  | 1.6    | 1.6  |





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CATALOG NUMBER: P3A13R159030D2WDE010 E3A301WH

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 1.1   | 1.6 | 1.1    | 0.5  | 1.1    | 1.1  |
| 85°   | 1.1   | 1.6 | 1.1    | 0.5  | 0.5    | 0.5  |
| 87.5° | 1.1   | 1.6 | 0.5    | 0.0  | 0.0    | 0.5  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)