

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: P1343976

Luminaire Tested: P3A13R209727DE010 E3A301H

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1343976  
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: P3A13R209727DE010 E3A301H  
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3A301H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

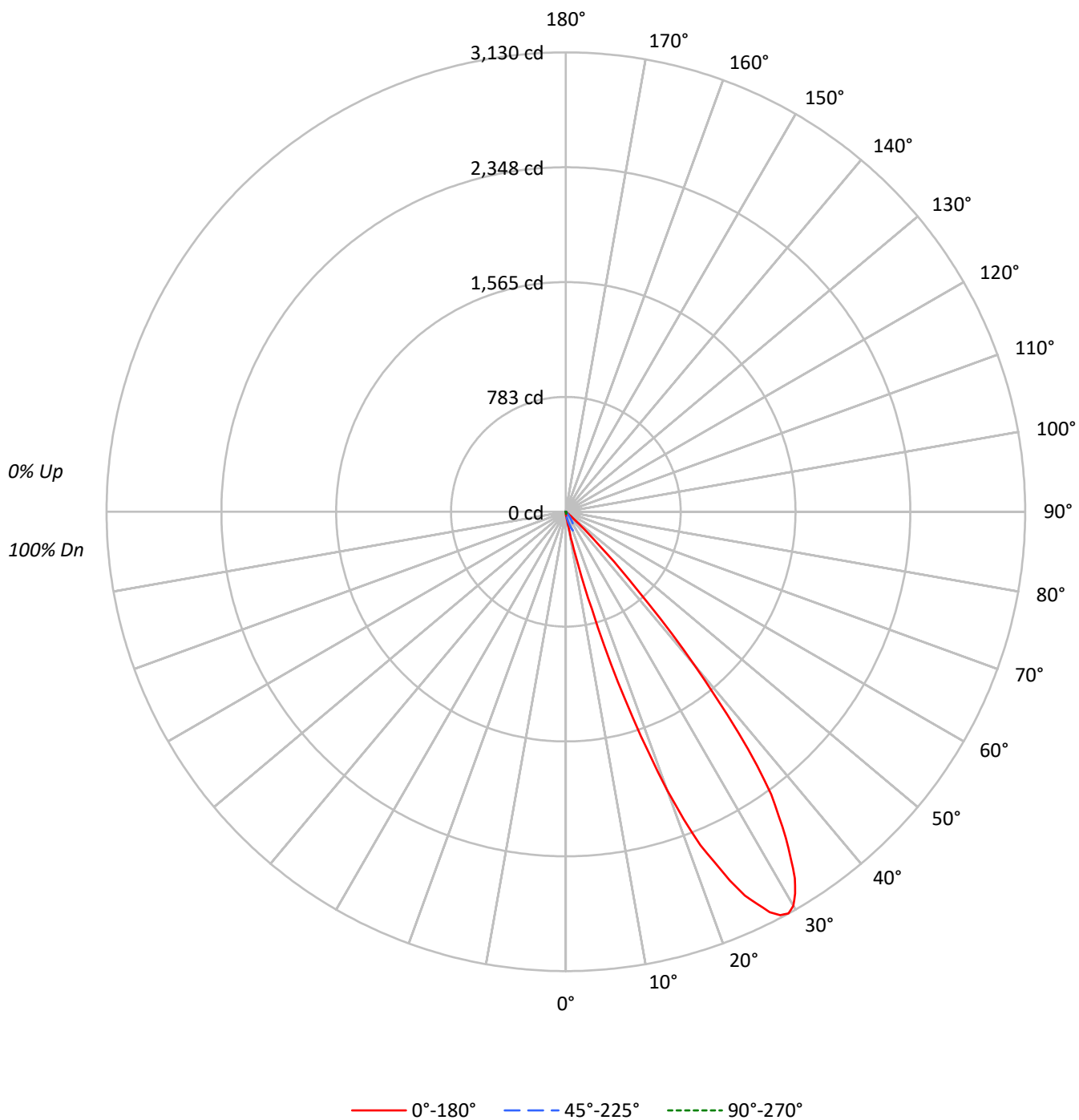
Lumens per Lamp: N/A  
Luminaire Lumens: 439.0 lumens  
Efficiency: N/A  
Efficacy: 30.1 lumens/watt  
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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: P3A13R209727DE010 E3A301H

### 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 |
| 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°  | 3311   | 3311  | 3311 | 3311 | 3311 |
| 5°  | 7638   | 5701  | 3148 | 1937 | 1673 |
| 10° | 24025  | 9931  | 2583 | 1069 | 802  |
| 15° | 155688 | 18366 | 1907 | 363  | 91   |
| 20° | 469904 | 31409 | 1307 | 0    | 0    |
| 25° | 697855 | 31695 | 774  | 0    | 0    |
| 30° | 784779 | 24105 | 304  | 0    | 0    |
| 35° | 677128 | 14402 | 214  | 0    | 0    |
| 40° | 389902 | 4895  | 0    | 0    | 0    |
| 45° | 95111  | 1985  | 124  | 0    | 124  |
| 50° | 11428  | 546   | 136  | 136  | 409  |
| 55° | 1529   | 0     | 306  | 306  | 612  |
| 60° | 175    | 0     | 526  | 526  | 877  |
| 65° | 208    | 208   | 830  | 830  | 1245 |
| 70° | 256    | 256   | 1026 | 1026 | 1282 |
| 75° | 0      | 339   | 1356 | 1017 | 1356 |
| 80° | 0      | 505   | 1515 | 1010 | 1515 |
| 85° | 0      | 1006  | 3019 | 1006 | 1006 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 95731 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.0    | 0.5       |
| 10°-20°   | 40.7   | 9.3       |
| 20°-30°   | 177.3  | 40.4      |
| 30°-40°   | 178.6  | 40.7      |
| 40°-50°   | 35.8   | 8.2       |
| 50°-60°   | 1.8    | 0.4       |
| 60°-70°   | 1.2    | 0.3       |
| 70°-80°   | 1.1    | 0.2       |
| 80°-90°   | 0.5    | 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°    | 220.0  | 50.1      |
| 0°-40°    | 398.6  | 90.8      |
| 0°-60°    | 436.3  | 99.4      |
| 0°-90°    | 439.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 439.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 15   | 15  | 15  | 15   | 15   |      |
| 5°  | 35   | 26  | 14  | 9    | 8    | 5    |
| 15° | 686  | 81  | 8   | 2    | 0    | 269  |
| 25° | 2884 | 131 | 3   | 0    | 0    | 1301 |
| 35° | 2530 | 54  | 1   | 0    | 0    | 1505 |
| 45° | 307  | 6   | 0   | 0    | 0    | 334  |
| 55° | 4    | 0   | 1   | 1    | 2    | 7    |
| 65° | 0    | 0   | 2   | 2    | 2    | 0    |
| 75° | 0    | 0   | 2   | 1    | 2    | 0    |
| 85° | 0    | 0   | 1   | 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°    | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1   | 15.1  |
| 2.5°  | 22.7   | 22.7   | 22.3   | 22.3   | 21.9   | 22.3   | 21.5   | 21.9   | 21.9   | 21.5   | 19.5  |
| 5°    | 34.7   | 35.4   | 35.0   | 35.0   | 34.7   | 35.0   | 34.3   | 33.5   | 32.7   | 32.7   | 25.9  |
| 7.5°  | 57.0   | 56.6   | 55.8   | 56.2   | 55.0   | 54.2   | 53.4   | 53.0   | 50.6   | 49.4   | 33.9  |
| 10°   | 107.9  | 110.3  | 108.3  | 107.9  | 100.8  | 100.4  | 95.6   | 88.8   | 82.8   | 79.7   | 44.6  |
| 12.5° | 297.1  | 309.9  | 289.9  | 280.4  | 274.8  | 253.3  | 244.1  | 220.6  | 197.9  | 180.8  | 56.6  |
| 15°   | 685.8  | 717.3  | 677.1  | 679.9  | 646.4  | 585.1  | 531.3  | 485.1  | 430.5  | 375.6  | 80.9  |
| 17.5° | 1343.8 | 1318.3 | 1296.4 | 1259.4 | 1191.2 | 1101.2 | 985.3  | 867.8  | 766.3  | 659.9  | 112.7 |
| 20°   | 2013.7 | 1991.0 | 1941.2 | 1860.4 | 1773.5 | 1640.1 | 1502.3 | 1325.9 | 1155.0 | 994.9  | 134.6 |
| 21°   | 2244.3 | 2236.7 | 2155.1 | 2105.3 | 1971.5 | 1844.0 | 1685.1 | 1496.3 | 1304.0 | 1114.4 | 138.2 |
| 22°   | 2450.2 | 2404.8 | 2361.0 | 2287.3 | 2154.3 | 2015.7 | 1838.8 | 1640.1 | 1431.4 | 1220.7 | 138.6 |
| 23°   | 2592.8 | 2572.1 | 2530.7 | 2447.4 | 2315.2 | 2152.3 | 1965.9 | 1758.0 | 1538.1 | 1296.0 | 137.4 |
| 24°   | 2750.5 | 2724.2 | 2663.7 | 2566.5 | 2433.1 | 2272.2 | 2059.5 | 1853.2 | 1614.2 | 1359.3 | 134.2 |
| 25°   | 2884.3 | 2843.3 | 2771.6 | 2666.9 | 2521.1 | 2355.0 | 2141.1 | 1914.5 | 1667.2 | 1401.9 | 131.0 |
| 26°   | 2971.1 | 2948.8 | 2856.8 | 2742.9 | 2586.8 | 2415.6 | 2197.3 | 1961.5 | 1701.4 | 1421.5 | 125.9 |
| 27°   | 3061.6 | 3020.5 | 2930.1 | 2799.1 | 2629.8 | 2455.0 | 2229.2 | 1984.2 | 1713.4 | 1422.2 | 119.5 |
| 28°   | 3113.3 | 3068.7 | 2966.4 | 2828.6 | 2657.7 | 2476.9 | 2247.5 | 1991.4 | 1711.0 | 1409.9 | 111.9 |
| 29°   | 3129.7 | 3073.5 | 2973.5 | 2833.3 | 2664.5 | 2478.5 | 2244.7 | 1981.0 | 1689.9 | 1379.6 | 103.2 |
| 30°   | 3099.4 | 3042.0 | 2947.3 | 2810.6 | 2643.0 | 2458.6 | 2218.8 | 1946.8 | 1652.5 | 1336.2 | 95.2  |
| 31°   | 3033.3 | 2984.7 | 2893.1 | 2756.1 | 2595.2 | 2412.0 | 2160.3 | 1890.6 | 1588.7 | 1278.1 | 86.0  |
| 32°   | 2946.1 | 2898.3 | 2808.3 | 2684.4 | 2520.7 | 2335.9 | 2080.2 | 1803.0 | 1513.9 | 1191.2 | 76.9  |
| 33°   | 2815.0 | 2787.5 | 2706.7 | 2588.4 | 2424.7 | 2227.2 | 1972.7 | 1698.3 | 1407.1 | 1094.9 | 68.9  |
| 34°   | 2682.4 | 2647.7 | 2591.2 | 2461.8 | 2285.7 | 2088.6 | 1832.5 | 1553.7 | 1276.9 | 986.9  | 61.3  |
| 35°   | 2529.5 | 2508.7 | 2419.9 | 2316.4 | 2139.5 | 1938.0 | 1683.5 | 1413.1 | 1125.1 | 866.7  | 53.8  |
| 36°   | 2381.3 | 2349.4 | 2248.3 | 2138.7 | 1967.1 | 1749.2 | 1497.9 | 1243.8 | 994.1  | 753.9  | 45.8  |
| 37°   | 2166.2 | 2117.6 | 2045.6 | 1930.1 | 1729.3 | 1543.7 | 1314.3 | 1078.5 | 832.8  | 632.1  | 37.0  |
| 38°   | 1913.3 | 1890.6 | 1790.7 | 1674.4 | 1508.3 | 1332.2 | 1105.2 | 905.3  | 687.0  | 527.7  | 28.3  |
| 39°   | 1615.0 | 1614.6 | 1519.0 | 1435.0 | 1272.5 | 1114.0 | 909.3  | 734.8  | 567.1  | 425.0  | 21.9  |
| 40°   | 1362.1 | 1315.1 | 1256.2 | 1150.6 | 1026.0 | 891.3  | 712.1  | 575.1  | 440.1  | 342.5  | 17.1  |
| 42.5° | 714.1  | 710.1  | 675.5  | 596.2  | 526.5  | 447.3  | 355.7  | 296.3  | 231.8  | 188.8  | 10.8  |
| 45°   | 306.7  | 308.7  | 284.8  | 272.8  | 245.7  | 212.7  | 179.6  | 149.8  | 128.2  | 104.0  | 6.4   |
| 47.5° | 77.7   | 74.5   | 73.7   | 76.5   | 76.5   | 74.1   | 66.5   | 62.5   | 57.8   | 53.0   | 3.6   |
| 50°   | 33.5   | 32.7   | 31.9   | 31.9   | 29.9   | 28.7   | 26.7   | 24.3   | 22.3   | 19.9   | 1.6   |
| 52.5° | 12.3   | 12.7   | 13.1   | 12.7   | 12.7   | 12.3   | 12.3   | 11.9   | 10.8   | 9.6    | 0.8   |
| 55°   | 4.0    | 4.0    | 4.0    | 4.4    | 4.4    | 4.8    | 4.8    | 4.8    | 4.8    | 4.4    | 0.0   |
| 57.5° | 0.8    | 0.8    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.6    | 1.6    | 0.0   |
| 60°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.0    | 0.0    | 0.0    | 0.0   |
| 62.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   |
| 65°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   |
| 67.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   |
| 70°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   |
| 72.5° | 0.4    | 0.0    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.4    | 0.0    | 0.4    | 0.4    | 0.0    | 0.4    | 0.4    | 0.4   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4    | 0.4   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4   |



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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   | 0.4 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.4 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.4 |
| 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°    | 15.1  | 15.1 | 15.1   | 15.1 | 15.1   | 15.1 |
| 2.5°  | 17.5  | 15.5 | 13.1   | 11.2 | 10.8   | 10.4 |
| 5°    | 19.5  | 14.3 | 10.8   | 8.8  | 8.0    | 7.6  |
| 7.5°  | 21.1  | 13.1 | 8.8    | 6.4  | 5.6    | 5.2  |
| 10°   | 21.9  | 11.6 | 7.2    | 4.8  | 3.6    | 3.6  |
| 12.5° | 22.3  | 10.0 | 5.2    | 3.2  | 2.0    | 2.0  |
| 15°   | 21.9  | 8.4  | 4.0    | 1.6  | 0.4    | 0.4  |
| 17.5° | 19.9  | 6.8  | 2.4    | 0.4  | 0.0    | 0.0  |
| 20°   | 17.1  | 5.6  | 1.6    | 0.0  | 0.0    | 0.0  |
| 21°   | 16.3  | 4.8  | 1.2    | 0.0  | 0.0    | 0.0  |
| 22°   | 15.1  | 4.4  | 0.8    | 0.0  | 0.0    | 0.0  |
| 23°   | 13.9  | 4.0  | 0.8    | 0.0  | 0.0    | 0.0  |
| 24°   | 12.7  | 3.6  | 0.4    | 0.0  | 0.0    | 0.0  |
| 25°   | 11.9  | 3.2  | 0.4    | 0.0  | 0.0    | 0.0  |
| 26°   | 11.2  | 2.8  | 0.4    | 0.0  | 0.0    | 0.0  |
| 27°   | 10.0  | 2.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 28°   | 9.2   | 2.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 29°   | 8.0   | 1.6  | 0.0    | 0.0  | 0.0    | 0.0  |
| 30°   | 6.8   | 1.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 31°   | 5.6   | 1.2  | 0.0    | 0.0  | 0.0    | 0.0  |
| 32°   | 4.8   | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 33°   | 4.0   | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 34°   | 3.6   | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 35°   | 3.2   | 0.8  | 0.0    | 0.0  | 0.0    | 0.0  |
| 36°   | 2.4   | 0.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 37°   | 2.0   | 0.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 38°   | 1.6   | 0.4  | 0.0    | 0.0  | 0.0    | 0.0  |
| 39°   | 1.2   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 40°   | 1.2   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 42.5° | 0.4   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 45°   | 0.0   | 0.4  | 0.0    | 0.0  | 0.4    | 0.4  |
| 47.5° | 0.0   | 0.4  | 0.0    | 0.0  | 0.4    | 0.8  |
| 50°   | 0.0   | 0.4  | 0.4    | 0.4  | 0.8    | 1.2  |
| 52.5° | 0.0   | 0.8  | 0.4    | 0.4  | 1.2    | 1.2  |
| 55°   | 0.4   | 0.8  | 0.4    | 0.8  | 1.6    | 1.6  |
| 57.5° | 0.4   | 0.8  | 0.8    | 1.2  | 1.6    | 2.0  |
| 60°   | 0.8   | 1.2  | 1.2    | 1.2  | 2.0    | 2.0  |
| 62.5° | 0.8   | 1.2  | 1.6    | 1.6  | 2.0    | 2.4  |
| 65°   | 0.8   | 1.6  | 1.6    | 1.6  | 2.0    | 2.4  |
| 67.5° | 1.2   | 1.6  | 1.6    | 1.6  | 2.0    | 2.4  |
| 70°   | 1.2   | 1.6  | 1.6    | 1.6  | 2.0    | 2.0  |
| 72.5° | 1.2   | 1.6  | 1.2    | 1.6  | 1.6    | 2.0  |
| 75°   | 1.2   | 1.6  | 1.2    | 1.2  | 1.6    | 1.6  |
| 77.5° | 0.8   | 1.2  | 1.2    | 0.8  | 1.2    | 1.2  |
| 80°   | 0.8   | 1.2  | 0.8    | 0.8  | 1.2    | 1.2  |



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CATALOG NUMBER: P3A13R209727DE010 E3A301H

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 0.8   | 1.2 | 0.8    | 0.4  | 0.8    | 0.8  |
| 85°   | 0.8   | 1.2 | 0.8    | 0.4  | 0.4    | 0.4  |
| 87.5° | 0.8   | 1.2 | 0.8    | 0.4  | 0.0    | 0.4  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)