

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P709175

Luminaire Tested: **4APN-35-37L850-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P709175
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 4APN-35-37L850-UNV
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture Ambient and Exam Light
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

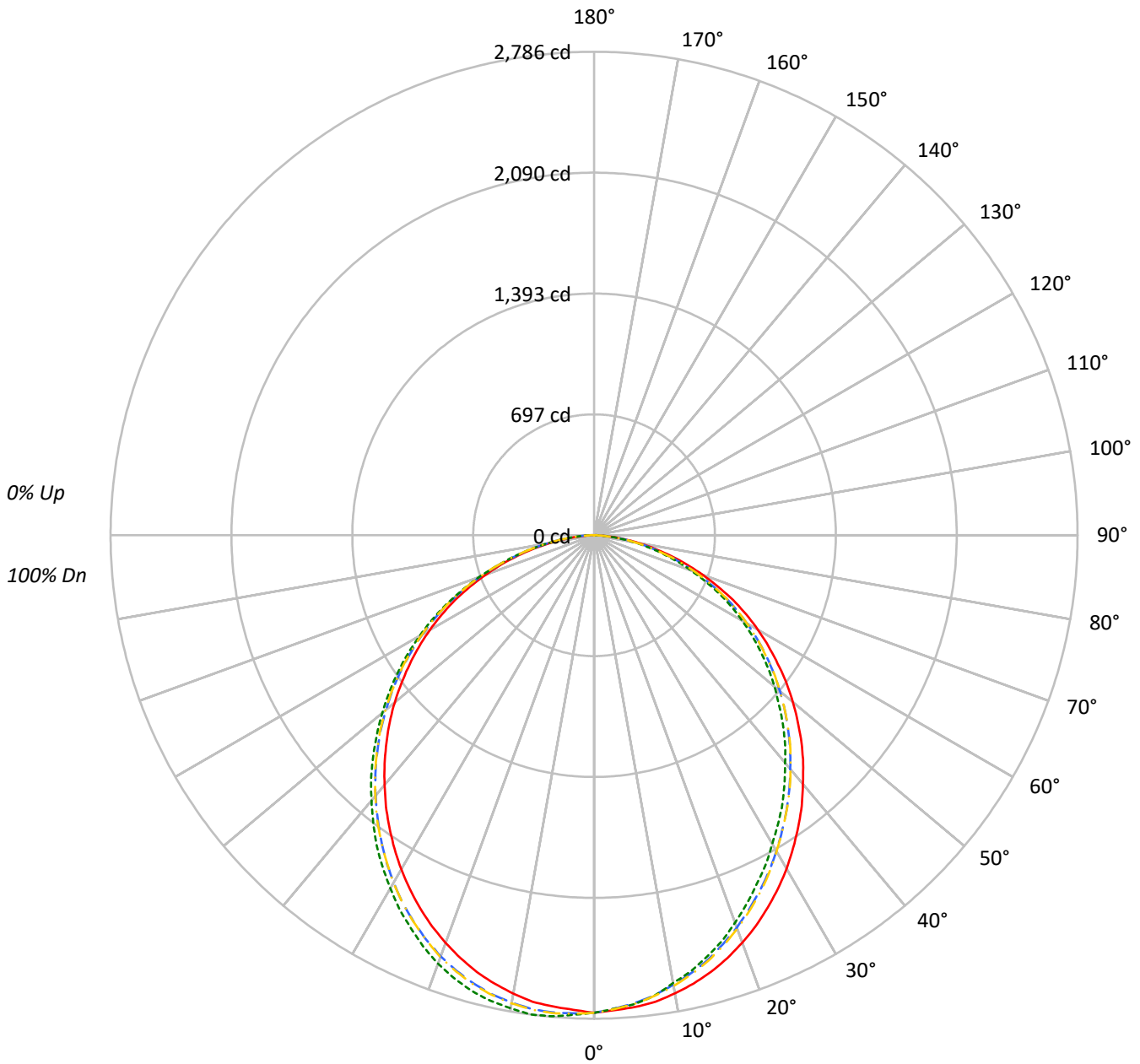
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7273.8 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.32
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 81
Input Voltage (V): 120
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: 25 FT

TEST NUMBER: P709175
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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - · - 135°-315°



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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 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 98 | 95 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | 86 | 86 | 86 | 84 |
| 2 | 99 | 91 | 84 | 79 | 97 | 89 | 83 | 78 | 86 | 80 | 76 | 82 | 78 | 74 | 79 | 76 | 72 | 72 | 72 | 72 | 70 |
| 3 | 90 | 80 | 72 | 66 | 88 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 67 | 63 | 70 | 66 | 62 | 62 | 62 | 62 | 59 |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 54 | 65 | 59 | 54 | 63 | 57 | 53 | 53 | 53 | 53 | 51 |
| 5 | 76 | 64 | 55 | 48 | 74 | 62 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 56 | 51 | 46 | 46 | 46 | 46 | 44 |
| 6 | 71 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 41 | 41 | 41 | 41 | 39 |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 36 | 36 | 36 | 34 |
| 8 | 61 | 48 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 32 | 32 | 32 | 32 | 31 |
| 9 | 57 | 44 | 35 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 29 | 29 | 29 | 28 |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 27 | 27 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|-------|
| 0° | 25388 | 25388 | 25388 | 25388 |
| 5° | 25275 | 25111 | 25246 | 25769 |
| 10° | 25113 | 24554 | 25129 | 25931 |
| 15° | 24879 | 24015 | 24895 | 25975 |
| 20° | 24527 | 23321 | 24543 | 25796 |
| 25° | 24098 | 22584 | 24147 | 25431 |
| 30° | 23635 | 21879 | 23670 | 25012 |
| 35° | 23095 | 21311 | 23149 | 24605 |
| 40° | 22535 | 20629 | 22614 | 24034 |
| 45° | 22052 | 20071 | 22074 | 23486 |
| 50° | 21476 | 19482 | 21523 | 22868 |
| 55° | 20794 | 18844 | 20871 | 22222 |
| 60° | 20126 | 18189 | 20156 | 21408 |
| 65° | 19296 | 17391 | 19296 | 20460 |
| 70° | 17915 | 16083 | 17871 | 19004 |
| 75° | 16244 | 14573 | 16127 | 17107 |
| 80° | 13995 | 12534 | 13735 | 14680 |
| 85° | 10776 | 9580 | 10438 | 11803 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 259.9 | 3.6 |
| 10°-20° | 735.8 | 10.1 |
| 20°-30° | 1089.3 | 15.0 |
| 30°-40° | 1278.1 | 17.6 |
| 40°-50° | 1295.3 | 17.8 |
| 50°-60° | 1149.6 | 15.8 |
| 60°-70° | 863.1 | 11.9 |
| 70°-80° | 479.2 | 6.6 |
| 80°-90° | 123.8 | 1.7 |
| 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° | 2084.9 | 28.7 |
| 0°-40° | 3363.0 | 46.2 |
| 0°-60° | 5807.8 | 79.8 |
| 0°-90° | 7273.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7273.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2752 | 2752 | 2752 | 2752 | 2752 | |
| 5° | 2729 | 2711 | 2726 | 2782 | 2729 | 259 |
| 15° | 2605 | 2514 | 2606 | 2719 | 2605 | 734 |
| 25° | 2367 | 2218 | 2372 | 2498 | 2367 | 1091 |
| 35° | 2050 | 1892 | 2055 | 2185 | 2050 | 1283 |
| 45° | 1690 | 1538 | 1692 | 1800 | 1690 | 1303 |
| 55° | 1293 | 1172 | 1298 | 1382 | 1293 | 1157 |
| 65° | 884 | 797 | 884 | 937 | 884 | 871 |
| 75° | 456 | 409 | 452 | 480 | 456 | 484 |
| 85° | 102 | 90 | 99 | 112 | 102 | 123 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: 4APN-35-37L850-UNV

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2751.7 | 2751.7 | 2751.7 | 2751.7 | 2751.7 | 2751.7 | 2751.7 | 2751.7 | 2751.7 | 2751.7 | 2751.7 |
| 2.5° | 2738.8 | 2745.3 | 2753.4 | 2745.3 | 2732.4 | 2725.9 | 2725.9 | 2724.3 | 2729.1 | 2730.7 | 2729.1 |
| 5° | 2729.1 | 2732.4 | 2734.0 | 2724.3 | 2709.7 | 2701.7 | 2698.4 | 2696.8 | 2703.3 | 2711.3 | 2703.3 |
| 7.5° | 2711.3 | 2709.7 | 2708.1 | 2695.2 | 2679.0 | 2667.7 | 2662.9 | 2661.3 | 2667.7 | 2675.8 | 2669.3 |
| 10° | 2680.6 | 2679.0 | 2674.2 | 2658.0 | 2637.0 | 2622.5 | 2617.6 | 2612.8 | 2617.6 | 2620.9 | 2617.6 |
| 12.5° | 2646.7 | 2640.3 | 2633.8 | 2616.0 | 2593.4 | 2577.2 | 2569.2 | 2562.7 | 2569.2 | 2574.0 | 2570.8 |
| 15° | 2604.7 | 2595.0 | 2583.7 | 2564.3 | 2541.7 | 2523.9 | 2514.2 | 2507.8 | 2512.6 | 2514.2 | 2514.2 |
| 17.5° | 2554.6 | 2543.3 | 2532.0 | 2507.8 | 2480.3 | 2460.9 | 2449.6 | 2441.5 | 2448.0 | 2451.2 | 2451.2 |
| 20° | 2498.1 | 2485.1 | 2470.6 | 2444.7 | 2415.7 | 2394.6 | 2381.7 | 2372.0 | 2373.6 | 2375.3 | 2375.3 |
| 22.5° | 2436.7 | 2420.5 | 2402.7 | 2375.3 | 2344.6 | 2321.9 | 2309.0 | 2297.7 | 2297.7 | 2299.3 | 2299.3 |
| 25° | 2367.2 | 2349.4 | 2331.6 | 2304.2 | 2271.8 | 2247.6 | 2231.4 | 2220.1 | 2220.1 | 2218.5 | 2221.8 |
| 27.5° | 2296.1 | 2276.7 | 2258.9 | 2229.8 | 2195.9 | 2171.7 | 2155.5 | 2144.2 | 2142.6 | 2141.0 | 2144.2 |
| 30° | 2218.5 | 2195.9 | 2176.5 | 2145.8 | 2113.5 | 2089.3 | 2073.1 | 2060.2 | 2056.9 | 2053.7 | 2056.9 |
| 32.5° | 2136.1 | 2115.1 | 2094.1 | 2061.8 | 2029.5 | 2005.2 | 1989.1 | 1976.1 | 1974.5 | 1972.9 | 1976.1 |
| 35° | 2050.5 | 2027.9 | 2008.5 | 1977.8 | 1945.4 | 1921.2 | 1903.4 | 1892.1 | 1892.1 | 1892.1 | 1892.1 |
| 37.5° | 1966.5 | 1943.8 | 1922.8 | 1892.1 | 1859.8 | 1835.6 | 1817.8 | 1806.5 | 1803.3 | 1801.6 | 1803.3 |
| 40° | 1871.1 | 1851.7 | 1832.3 | 1803.3 | 1770.9 | 1746.7 | 1732.2 | 1719.2 | 1716.0 | 1712.8 | 1717.6 |
| 42.5° | 1783.9 | 1764.5 | 1743.5 | 1716.0 | 1683.7 | 1659.4 | 1643.3 | 1632.0 | 1630.4 | 1628.7 | 1630.4 |
| 45° | 1690.1 | 1667.5 | 1646.5 | 1620.7 | 1591.6 | 1569.0 | 1552.8 | 1541.5 | 1539.9 | 1538.3 | 1539.9 |
| 47.5° | 1591.6 | 1573.8 | 1556.0 | 1530.2 | 1501.1 | 1478.5 | 1463.9 | 1451.0 | 1447.8 | 1444.5 | 1447.8 |
| 50° | 1496.2 | 1476.9 | 1459.1 | 1434.8 | 1407.4 | 1386.4 | 1373.4 | 1362.1 | 1358.9 | 1357.3 | 1358.9 |
| 52.5° | 1396.1 | 1378.3 | 1362.1 | 1337.9 | 1315.3 | 1294.3 | 1279.7 | 1270.0 | 1268.4 | 1266.8 | 1268.4 |
| 55° | 1292.7 | 1276.5 | 1262.0 | 1242.6 | 1219.9 | 1200.6 | 1187.6 | 1176.3 | 1174.7 | 1171.5 | 1174.7 |
| 57.5° | 1192.5 | 1179.5 | 1165.0 | 1144.0 | 1123.0 | 1105.2 | 1093.9 | 1084.2 | 1082.6 | 1081.0 | 1082.6 |
| 60° | 1090.7 | 1077.8 | 1064.8 | 1047.1 | 1026.0 | 1008.3 | 998.6 | 990.5 | 987.3 | 985.7 | 987.3 |
| 62.5° | 988.9 | 976.0 | 966.3 | 948.5 | 929.1 | 914.6 | 904.9 | 896.8 | 893.5 | 891.9 | 893.5 |
| 65° | 883.9 | 872.5 | 861.2 | 845.1 | 830.5 | 819.2 | 809.5 | 801.4 | 798.2 | 796.6 | 796.6 |
| 67.5° | 772.4 | 762.7 | 754.6 | 740.0 | 723.9 | 712.6 | 702.9 | 696.4 | 693.2 | 691.6 | 693.2 |
| 70° | 664.1 | 656.0 | 647.9 | 636.6 | 623.7 | 614.0 | 607.5 | 601.1 | 597.9 | 596.2 | 596.2 |
| 72.5° | 560.7 | 554.2 | 546.1 | 536.5 | 526.8 | 517.1 | 510.6 | 505.8 | 502.5 | 500.9 | 500.9 |
| 75° | 455.7 | 449.2 | 446.0 | 437.9 | 428.2 | 421.7 | 415.3 | 412.0 | 408.8 | 408.8 | 408.8 |
| 77.5° | 357.1 | 353.9 | 350.6 | 342.6 | 336.1 | 329.6 | 324.8 | 323.2 | 319.9 | 319.9 | 319.9 |
| 80° | 263.4 | 261.8 | 260.1 | 255.3 | 248.8 | 242.4 | 239.1 | 237.5 | 235.9 | 235.9 | 235.9 |
| 82.5° | 177.7 | 177.7 | 176.1 | 171.3 | 166.4 | 164.8 | 161.6 | 160.0 | 160.0 | 160.0 | 160.0 |
| 85° | 101.8 | 101.8 | 101.8 | 100.2 | 96.9 | 96.9 | 93.7 | 92.1 | 90.5 | 90.5 | 90.5 |
| 87.5° | 40.4 | 42.0 | 43.6 | 42.0 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 |
| 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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CANDELA DISTRIBUTION (continued):

| | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° | 190° | 200° | 210° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2751.7 | 2751.7 | 2751.7 | 2751.7 | 2751.7 | 2751.7 | 2751.7 | 2751.7 | 2751.7 | 2751.7 | 2751.7 |
| 2.5° | 2724.3 | 2727.5 | 2729.1 | 2737.2 | 2746.9 | 2753.4 | 2745.3 | 2737.2 | 2750.1 | 2764.7 | 2764.7 |
| 5° | 2696.8 | 2700.0 | 2704.9 | 2714.6 | 2727.5 | 2735.6 | 2732.4 | 2725.9 | 2745.3 | 2761.4 | 2763.1 |
| 7.5° | 2662.9 | 2666.1 | 2672.6 | 2682.3 | 2698.4 | 2709.7 | 2709.7 | 2711.3 | 2729.1 | 2748.5 | 2753.4 |
| 10° | 2612.8 | 2620.9 | 2630.6 | 2645.1 | 2661.3 | 2675.8 | 2680.6 | 2682.3 | 2704.9 | 2725.9 | 2732.4 |
| 12.5° | 2565.9 | 2574.0 | 2583.7 | 2599.9 | 2619.2 | 2635.4 | 2640.3 | 2646.7 | 2671.0 | 2695.2 | 2704.9 |
| 15° | 2512.6 | 2520.7 | 2532.0 | 2548.1 | 2569.2 | 2586.9 | 2596.6 | 2606.3 | 2630.6 | 2656.4 | 2667.7 |
| 17.5° | 2449.6 | 2457.7 | 2469.0 | 2488.4 | 2512.6 | 2533.6 | 2544.9 | 2556.2 | 2583.7 | 2611.2 | 2622.5 |
| 20° | 2375.3 | 2386.6 | 2402.7 | 2422.1 | 2449.6 | 2473.8 | 2486.7 | 2499.7 | 2528.8 | 2556.2 | 2569.2 |
| 22.5° | 2299.3 | 2312.2 | 2330.0 | 2352.6 | 2381.7 | 2407.6 | 2423.7 | 2439.9 | 2469.0 | 2496.4 | 2511.0 |
| 25° | 2223.4 | 2237.9 | 2255.7 | 2279.9 | 2307.4 | 2333.2 | 2352.6 | 2372.0 | 2401.1 | 2430.2 | 2444.7 |
| 27.5° | 2145.8 | 2158.7 | 2176.5 | 2200.7 | 2231.4 | 2258.9 | 2278.3 | 2299.3 | 2328.4 | 2359.1 | 2373.6 |
| 30° | 2060.2 | 2074.7 | 2090.9 | 2115.1 | 2149.0 | 2179.7 | 2199.1 | 2221.8 | 2250.8 | 2281.5 | 2296.1 |
| 32.5° | 1977.8 | 1990.7 | 2006.8 | 2031.1 | 2065.0 | 2097.3 | 2118.3 | 2141.0 | 2170.0 | 2200.7 | 2213.7 |
| 35° | 1892.1 | 1905.1 | 1922.8 | 1947.1 | 1981.0 | 2011.7 | 2032.7 | 2055.3 | 2082.8 | 2111.9 | 2126.4 |
| 37.5° | 1808.1 | 1821.0 | 1838.8 | 1863.0 | 1895.4 | 1926.1 | 1947.1 | 1969.7 | 1997.2 | 2024.6 | 2037.5 |
| 40° | 1720.8 | 1733.8 | 1748.3 | 1772.6 | 1804.9 | 1835.6 | 1855.0 | 1877.6 | 1905.1 | 1934.1 | 1947.1 |
| 42.5° | 1632.0 | 1644.9 | 1662.7 | 1686.9 | 1717.6 | 1745.1 | 1766.1 | 1787.1 | 1813.0 | 1838.8 | 1851.7 |
| 45° | 1543.1 | 1554.4 | 1572.2 | 1594.8 | 1623.9 | 1649.8 | 1670.8 | 1691.8 | 1716.0 | 1740.2 | 1753.2 |
| 47.5° | 1451.0 | 1463.9 | 1478.5 | 1501.1 | 1530.2 | 1557.7 | 1578.7 | 1598.0 | 1620.7 | 1644.9 | 1656.2 |
| 50° | 1362.1 | 1373.4 | 1388.0 | 1409.0 | 1436.5 | 1462.3 | 1480.1 | 1499.5 | 1520.5 | 1543.1 | 1552.8 |
| 52.5° | 1270.0 | 1281.3 | 1295.9 | 1316.9 | 1339.5 | 1363.8 | 1379.9 | 1397.7 | 1418.7 | 1439.7 | 1449.4 |
| 55° | 1176.3 | 1184.4 | 1197.3 | 1216.7 | 1241.0 | 1263.6 | 1279.7 | 1297.5 | 1315.3 | 1333.1 | 1344.4 |
| 57.5° | 1084.2 | 1093.9 | 1106.8 | 1124.6 | 1145.6 | 1166.6 | 1181.2 | 1195.7 | 1213.5 | 1231.3 | 1239.3 |
| 60° | 990.5 | 998.6 | 1008.3 | 1024.4 | 1045.4 | 1063.2 | 1077.8 | 1092.3 | 1106.8 | 1123.0 | 1131.1 |
| 62.5° | 895.2 | 903.2 | 912.9 | 929.1 | 946.9 | 963.0 | 976.0 | 988.9 | 1001.8 | 1016.4 | 1024.4 |
| 65° | 799.8 | 807.9 | 817.6 | 828.9 | 843.5 | 858.0 | 870.9 | 883.9 | 893.5 | 903.2 | 911.3 |
| 67.5° | 696.4 | 704.5 | 714.2 | 723.9 | 736.8 | 751.4 | 761.1 | 772.4 | 782.1 | 793.4 | 798.2 |
| 70° | 599.5 | 605.9 | 615.6 | 623.7 | 635.0 | 644.7 | 652.8 | 662.5 | 668.9 | 678.6 | 686.7 |
| 72.5° | 504.1 | 510.6 | 518.7 | 526.8 | 533.2 | 541.3 | 551.0 | 559.1 | 567.2 | 576.8 | 580.1 |
| 75° | 412.0 | 415.3 | 421.7 | 428.2 | 434.7 | 441.1 | 446.0 | 452.4 | 458.9 | 465.4 | 470.2 |
| 77.5° | 321.5 | 324.8 | 331.2 | 336.1 | 340.9 | 345.8 | 349.0 | 352.2 | 358.7 | 363.6 | 368.4 |
| 80° | 235.9 | 239.1 | 244.0 | 248.8 | 253.7 | 258.5 | 258.5 | 258.5 | 266.6 | 273.1 | 274.7 |
| 82.5° | 160.0 | 161.6 | 164.8 | 168.0 | 171.3 | 174.5 | 174.5 | 172.9 | 177.7 | 182.6 | 185.8 |
| 85° | 92.1 | 93.7 | 96.9 | 96.9 | 98.6 | 98.6 | 98.6 | 98.6 | 101.8 | 106.6 | 109.9 |
| 87.5° | 37.2 | 37.2 | 38.8 | 38.8 | 40.4 | 40.4 | 38.8 | 37.2 | 40.4 | 45.2 | 46.9 |
| 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):

| | 220° | 230° | 240° | 250° | 260° | 270° | 280° | 290° | 300° | 310° | 320° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2751.7 | 2751.7 | 2751.7 | 2751.7 | 2751.7 | 2751.7 | 2751.7 | 2751.7 | 2751.7 | 2751.7 | 2751.7 |
| 2.5° | 2758.2 | 2756.6 | 2761.4 | 2763.1 | 2766.3 | 2766.3 | 2767.9 | 2767.9 | 2764.7 | 2759.8 | 2761.4 |
| 5° | 2759.8 | 2759.8 | 2764.7 | 2769.5 | 2776.0 | 2782.4 | 2777.6 | 2772.7 | 2769.5 | 2764.7 | 2763.1 |
| 7.5° | 2751.7 | 2755.0 | 2759.8 | 2767.9 | 2776.0 | 2785.7 | 2779.2 | 2772.7 | 2764.7 | 2758.2 | 2755.0 |
| 10° | 2732.4 | 2735.6 | 2743.7 | 2751.7 | 2759.8 | 2767.9 | 2761.4 | 2755.0 | 2748.5 | 2740.4 | 2737.2 |
| 12.5° | 2708.1 | 2713.0 | 2722.7 | 2730.7 | 2738.8 | 2748.5 | 2740.4 | 2732.4 | 2724.3 | 2716.2 | 2711.3 |
| 15° | 2672.6 | 2679.0 | 2690.3 | 2700.0 | 2711.3 | 2719.4 | 2713.0 | 2706.5 | 2696.8 | 2685.5 | 2677.4 |
| 17.5° | 2627.3 | 2637.0 | 2648.3 | 2659.6 | 2669.3 | 2677.4 | 2672.6 | 2666.1 | 2654.8 | 2641.9 | 2632.2 |
| 20° | 2577.2 | 2586.9 | 2596.6 | 2607.9 | 2619.2 | 2627.3 | 2620.9 | 2612.8 | 2601.5 | 2591.8 | 2582.1 |
| 22.5° | 2519.1 | 2528.8 | 2540.1 | 2549.8 | 2559.5 | 2567.5 | 2559.5 | 2549.8 | 2540.1 | 2530.4 | 2520.7 |
| 25° | 2452.8 | 2462.5 | 2475.4 | 2485.1 | 2491.6 | 2498.1 | 2491.6 | 2483.5 | 2473.8 | 2464.1 | 2454.4 |
| 27.5° | 2383.3 | 2393.0 | 2406.0 | 2415.7 | 2422.1 | 2428.6 | 2422.1 | 2414.0 | 2404.3 | 2394.6 | 2385.0 |
| 30° | 2305.8 | 2315.5 | 2328.4 | 2338.1 | 2342.9 | 2347.8 | 2341.3 | 2334.9 | 2326.8 | 2317.1 | 2307.4 |
| 32.5° | 2223.4 | 2233.1 | 2242.8 | 2252.5 | 2260.5 | 2267.0 | 2260.5 | 2254.1 | 2244.4 | 2231.4 | 2221.8 |
| 35° | 2136.1 | 2145.8 | 2157.1 | 2166.8 | 2176.5 | 2184.6 | 2174.9 | 2163.6 | 2155.5 | 2147.4 | 2139.3 |
| 37.5° | 2044.0 | 2055.3 | 2068.3 | 2079.6 | 2082.8 | 2089.3 | 2082.8 | 2076.3 | 2068.3 | 2060.2 | 2050.5 |
| 40° | 1953.5 | 1963.2 | 1974.5 | 1985.8 | 1990.7 | 1995.5 | 1989.1 | 1982.6 | 1972.9 | 1964.8 | 1955.1 |
| 42.5° | 1859.8 | 1869.5 | 1879.2 | 1888.9 | 1895.4 | 1901.8 | 1895.4 | 1885.7 | 1879.2 | 1872.7 | 1864.7 |
| 45° | 1762.9 | 1772.6 | 1780.6 | 1790.3 | 1795.2 | 1800.0 | 1793.6 | 1785.5 | 1779.0 | 1774.2 | 1766.1 |
| 47.5° | 1664.3 | 1672.4 | 1680.5 | 1688.5 | 1691.8 | 1696.6 | 1690.1 | 1685.3 | 1680.5 | 1675.6 | 1669.1 |
| 50° | 1560.9 | 1569.0 | 1578.7 | 1586.7 | 1588.4 | 1593.2 | 1586.7 | 1581.9 | 1577.0 | 1572.2 | 1567.3 |
| 52.5° | 1459.1 | 1465.5 | 1473.6 | 1481.7 | 1484.9 | 1488.2 | 1481.7 | 1475.2 | 1470.4 | 1467.2 | 1462.3 |
| 55° | 1352.4 | 1358.9 | 1367.0 | 1373.4 | 1378.3 | 1381.5 | 1375.1 | 1368.6 | 1363.8 | 1362.1 | 1357.3 |
| 57.5° | 1245.8 | 1252.3 | 1260.3 | 1266.8 | 1270.0 | 1273.3 | 1266.8 | 1260.3 | 1257.1 | 1253.9 | 1250.6 |
| 60° | 1137.5 | 1144.0 | 1150.5 | 1155.3 | 1158.5 | 1160.2 | 1153.7 | 1148.8 | 1147.2 | 1145.6 | 1142.4 |
| 62.5° | 1030.9 | 1034.1 | 1040.6 | 1043.8 | 1047.1 | 1048.7 | 1043.8 | 1040.6 | 1039.0 | 1037.4 | 1035.7 |
| 65° | 919.4 | 927.5 | 932.3 | 935.6 | 935.6 | 937.2 | 932.3 | 930.7 | 929.1 | 927.5 | 924.2 |
| 67.5° | 804.7 | 811.1 | 814.4 | 817.6 | 817.6 | 817.6 | 817.6 | 817.6 | 816.0 | 812.8 | 809.5 |
| 70° | 694.8 | 699.7 | 702.9 | 704.5 | 704.5 | 704.5 | 701.3 | 699.7 | 701.3 | 701.3 | 699.7 |
| 72.5° | 583.3 | 586.5 | 588.2 | 589.8 | 588.2 | 588.2 | 588.2 | 591.4 | 591.4 | 589.8 | 586.5 |
| 75° | 475.1 | 478.3 | 479.9 | 481.5 | 479.9 | 479.9 | 479.9 | 483.1 | 481.5 | 481.5 | 479.9 |
| 77.5° | 373.3 | 374.9 | 374.9 | 376.5 | 374.9 | 374.9 | 376.5 | 379.7 | 378.1 | 378.1 | 378.1 |
| 80° | 276.3 | 276.3 | 276.3 | 277.9 | 276.3 | 276.3 | 277.9 | 281.2 | 279.5 | 279.5 | 279.5 |
| 82.5° | 187.4 | 189.1 | 189.1 | 189.1 | 190.7 | 192.3 | 192.3 | 192.3 | 192.3 | 192.3 | 190.7 |
| 85° | 111.5 | 113.1 | 111.5 | 111.5 | 111.5 | 111.5 | 113.1 | 114.7 | 114.7 | 114.7 | 114.7 |
| 87.5° | 48.5 | 50.1 | 48.5 | 46.9 | 45.2 | 45.2 | 48.5 | 51.7 | 51.7 | 50.1 | 50.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P709175
 CATALOG NUMBER: 4APN-35-37L850-UNV

CANDELA DISTRIBUTION (continued):

| | 330° | 340° | 350° | 360° |
|-------|--------|--------|--------|--------|
| 0° | 2751.7 | 2751.7 | 2751.7 | 2751.7 |
| 2.5° | 2767.9 | 2767.9 | 2753.4 | 2738.8 |
| 5° | 2766.3 | 2763.1 | 2746.9 | 2729.1 |
| 7.5° | 2756.6 | 2751.7 | 2730.7 | 2711.3 |
| 10° | 2734.0 | 2727.5 | 2704.9 | 2680.6 |
| 12.5° | 2706.5 | 2696.8 | 2671.0 | 2646.7 |
| 15° | 2671.0 | 2659.6 | 2632.2 | 2604.7 |
| 17.5° | 2624.1 | 2611.2 | 2583.7 | 2554.6 |
| 20° | 2574.0 | 2559.5 | 2528.8 | 2498.1 |
| 22.5° | 2512.6 | 2499.7 | 2467.4 | 2436.7 |
| 25° | 2446.4 | 2431.8 | 2399.5 | 2367.2 |
| 27.5° | 2375.3 | 2359.1 | 2326.8 | 2296.1 |
| 30° | 2297.7 | 2281.5 | 2249.2 | 2218.5 |
| 32.5° | 2215.3 | 2202.4 | 2170.0 | 2136.1 |
| 35° | 2131.3 | 2115.1 | 2082.8 | 2050.5 |
| 37.5° | 2042.4 | 2027.9 | 1997.2 | 1966.5 |
| 40° | 1948.7 | 1934.1 | 1901.8 | 1871.1 |
| 42.5° | 1856.6 | 1843.7 | 1813.0 | 1783.9 |
| 45° | 1758.0 | 1745.1 | 1716.0 | 1690.1 |
| 47.5° | 1659.4 | 1646.5 | 1619.1 | 1591.6 |
| 50° | 1559.3 | 1546.3 | 1520.5 | 1496.2 |
| 52.5° | 1454.2 | 1444.5 | 1420.3 | 1396.1 |
| 55° | 1349.2 | 1337.9 | 1313.7 | 1292.7 |
| 57.5° | 1244.2 | 1236.1 | 1213.5 | 1192.5 |
| 60° | 1135.9 | 1126.2 | 1108.5 | 1090.7 |
| 62.5° | 1030.9 | 1022.8 | 1005.0 | 988.9 |
| 65° | 919.4 | 912.9 | 898.4 | 883.9 |
| 67.5° | 804.7 | 799.8 | 785.3 | 772.4 |
| 70° | 694.8 | 686.7 | 675.4 | 664.1 |
| 72.5° | 583.3 | 580.1 | 570.4 | 560.7 |
| 75° | 476.7 | 473.4 | 463.7 | 455.7 |
| 77.5° | 376.5 | 373.3 | 365.2 | 357.1 |
| 80° | 277.9 | 276.3 | 269.8 | 263.4 |
| 82.5° | 190.7 | 189.1 | 184.2 | 177.7 |
| 85° | 114.7 | 111.5 | 106.6 | 101.8 |
| 87.5° | 50.1 | 48.5 | 43.6 | 40.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)