

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: P709198

Luminaire Tested: **4APN-39-42L950-UNV**

Issue Date: 09/12/2023

Test Information

Test Method: LM-79-08
Report Number: P709198
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 4APN-39-42L950-UNV
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture Ambient and Exam Light
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

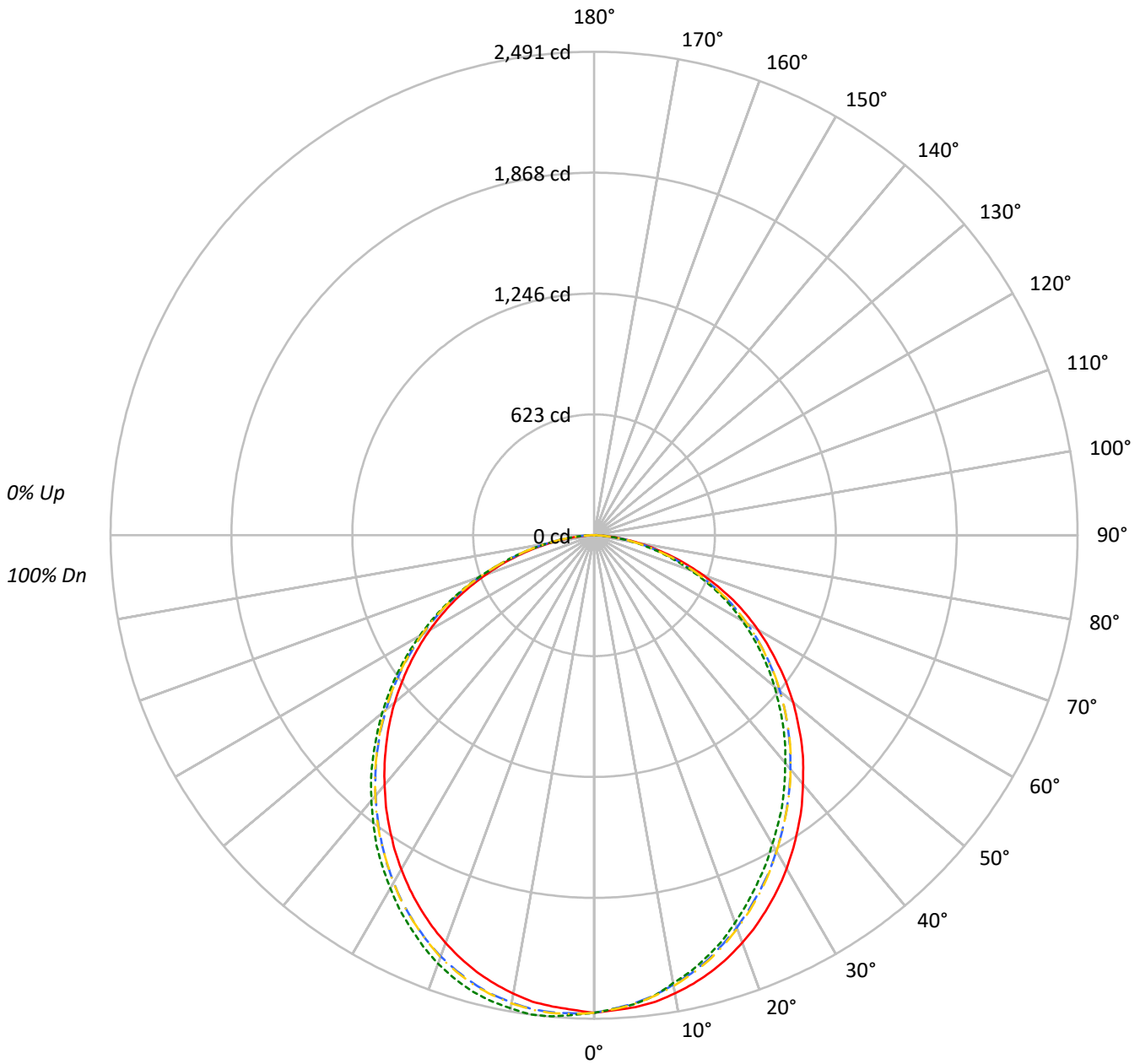
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6504.3 lumens
Efficiency: N/A
Efficacy: 70.7 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): 92
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: P709198
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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° | 22702 | 22702 | 22702 | 22702 |
| 5° | 22602 | 22454 | 22575 | 23043 |
| 10° | 22456 | 21956 | 22470 | 23188 |
| 15° | 22247 | 21474 | 22261 | 23227 |
| 20° | 21932 | 20854 | 21946 | 23067 |
| 25° | 21548 | 20195 | 21593 | 22740 |
| 30° | 21134 | 19564 | 21165 | 22366 |
| 35° | 20651 | 19056 | 20700 | 22002 |
| 40° | 20152 | 18447 | 20221 | 21491 |
| 45° | 19719 | 17947 | 19739 | 21002 |
| 50° | 19205 | 17421 | 19245 | 20448 |
| 55° | 18593 | 16849 | 18662 | 19872 |
| 60° | 17997 | 16264 | 18022 | 19143 |
| 65° | 17253 | 15550 | 17253 | 18294 |
| 70° | 16018 | 14383 | 15980 | 16995 |
| 75° | 14526 | 13033 | 14423 | 15296 |
| 80° | 12512 | 11211 | 12284 | 13129 |
| 85° | 9633 | 8564 | 9326 | 10554 |



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 CATALOG NUMBER: 4APN-39-42L950-UNV

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 232.4 | 3.6 |
| 10°-20° | 657.9 | 10.1 |
| 20°-30° | 974.1 | 15.0 |
| 30°-40° | 1142.8 | 17.6 |
| 40°-50° | 1158.2 | 17.8 |
| 50°-60° | 1027.9 | 15.8 |
| 60°-70° | 771.7 | 11.9 |
| 70°-80° | 428.5 | 6.6 |
| 80°-90° | 110.7 | 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° | 1864.4 | 28.7 |
| 0°-40° | 3007.2 | 46.2 |
| 0°-60° | 5193.4 | 79.8 |
| 0°-90° | 6504.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6504.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2461 | 2461 | 2461 | 2461 | 2461 | |
| 5° | 2440 | 2424 | 2438 | 2488 | 2440 | 232 |
| 15° | 2329 | 2248 | 2331 | 2432 | 2329 | 656 |
| 25° | 2117 | 1984 | 2121 | 2234 | 2117 | 975 |
| 35° | 1834 | 1692 | 1838 | 1954 | 1834 | 1147 |
| 45° | 1511 | 1376 | 1513 | 1610 | 1511 | 1165 |
| 55° | 1156 | 1048 | 1160 | 1235 | 1156 | 1035 |
| 65° | 790 | 712 | 790 | 838 | 790 | 779 |
| 75° | 408 | 366 | 405 | 429 | 408 | 433 |
| 85° | 91 | 81 | 88 | 100 | 91 | 110 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P709198

CATALOG NUMBER: 4APN-39-42L950-UNV

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2460.6 | 2460.6 | 2460.6 | 2460.6 | 2460.6 | 2460.6 | 2460.6 | 2460.6 | 2460.6 | 2460.6 | 2460.6 |
| 2.5° | 2449.1 | 2454.8 | 2462.1 | 2454.8 | 2443.3 | 2437.5 | 2437.5 | 2436.1 | 2440.4 | 2441.8 | 2440.4 |
| 5° | 2440.4 | 2443.3 | 2444.7 | 2436.1 | 2423.1 | 2415.8 | 2412.9 | 2411.5 | 2417.3 | 2424.5 | 2417.3 |
| 7.5° | 2424.5 | 2423.1 | 2421.6 | 2410.1 | 2395.6 | 2385.5 | 2381.2 | 2379.7 | 2385.5 | 2392.7 | 2386.9 |
| 10° | 2397.0 | 2395.6 | 2391.3 | 2376.8 | 2358.0 | 2345.0 | 2340.7 | 2336.4 | 2340.7 | 2343.6 | 2340.7 |
| 12.5° | 2366.7 | 2360.9 | 2355.1 | 2339.3 | 2319.0 | 2304.6 | 2297.4 | 2291.6 | 2297.4 | 2301.7 | 2298.8 |
| 15° | 2329.1 | 2320.5 | 2310.4 | 2293.0 | 2272.8 | 2256.9 | 2248.2 | 2242.4 | 2246.8 | 2248.2 | 2248.2 |
| 17.5° | 2284.3 | 2274.2 | 2264.1 | 2242.4 | 2217.9 | 2200.5 | 2190.4 | 2183.2 | 2189.0 | 2191.9 | 2191.9 |
| 20° | 2233.8 | 2222.2 | 2209.2 | 2186.1 | 2160.1 | 2141.3 | 2129.7 | 2121.1 | 2122.5 | 2124.0 | 2124.0 |
| 22.5° | 2178.9 | 2164.4 | 2148.5 | 2124.0 | 2096.5 | 2076.3 | 2064.7 | 2054.6 | 2054.6 | 2056.1 | 2056.1 |
| 25° | 2116.7 | 2100.8 | 2085.0 | 2060.4 | 2031.5 | 2009.8 | 1995.4 | 1985.3 | 1985.3 | 1983.8 | 1986.7 |
| 27.5° | 2053.2 | 2035.8 | 2019.9 | 1993.9 | 1963.6 | 1941.9 | 1927.5 | 1917.3 | 1915.9 | 1914.5 | 1917.3 |
| 30° | 1983.8 | 1963.6 | 1946.2 | 1918.8 | 1889.9 | 1868.2 | 1853.8 | 1842.2 | 1839.3 | 1836.4 | 1839.3 |
| 32.5° | 1910.1 | 1891.3 | 1872.6 | 1843.7 | 1814.8 | 1793.1 | 1778.6 | 1767.1 | 1765.6 | 1764.2 | 1767.1 |
| 35° | 1833.5 | 1813.3 | 1796.0 | 1768.5 | 1739.6 | 1718.0 | 1702.1 | 1691.9 | 1691.9 | 1691.9 | 1691.9 |
| 37.5° | 1758.4 | 1738.2 | 1719.4 | 1691.9 | 1663.1 | 1641.4 | 1625.5 | 1615.4 | 1612.5 | 1611.0 | 1612.5 |
| 40° | 1673.2 | 1655.8 | 1638.5 | 1612.5 | 1583.6 | 1561.9 | 1548.9 | 1537.3 | 1534.5 | 1531.6 | 1535.9 |
| 42.5° | 1595.1 | 1577.8 | 1559.0 | 1534.5 | 1505.6 | 1483.9 | 1469.4 | 1459.3 | 1457.9 | 1456.4 | 1457.9 |
| 45° | 1511.3 | 1491.1 | 1472.3 | 1449.2 | 1423.2 | 1403.0 | 1388.5 | 1378.4 | 1377.0 | 1375.5 | 1377.0 |
| 47.5° | 1423.2 | 1407.3 | 1391.4 | 1368.3 | 1342.3 | 1322.1 | 1309.1 | 1297.5 | 1294.6 | 1291.7 | 1294.6 |
| 50° | 1338.0 | 1320.6 | 1304.7 | 1283.0 | 1258.5 | 1239.7 | 1228.1 | 1218.0 | 1215.1 | 1213.7 | 1215.1 |
| 52.5° | 1248.4 | 1232.5 | 1218.0 | 1196.4 | 1176.1 | 1157.3 | 1144.3 | 1135.7 | 1134.2 | 1132.8 | 1134.2 |
| 55° | 1155.9 | 1141.5 | 1128.4 | 1111.1 | 1090.9 | 1073.5 | 1062.0 | 1051.9 | 1050.4 | 1047.5 | 1050.4 |
| 57.5° | 1066.3 | 1054.8 | 1041.8 | 1023.0 | 1004.2 | 988.3 | 978.2 | 969.5 | 968.1 | 966.6 | 968.1 |
| 60° | 975.3 | 963.7 | 952.2 | 936.3 | 917.5 | 901.6 | 892.9 | 885.7 | 882.8 | 881.4 | 882.8 |
| 62.5° | 884.3 | 872.7 | 864.0 | 848.1 | 830.8 | 817.8 | 809.1 | 801.9 | 799.0 | 797.6 | 799.0 |
| 65° | 790.3 | 780.2 | 770.1 | 755.7 | 742.7 | 732.6 | 723.9 | 716.7 | 713.8 | 712.3 | 712.3 |
| 67.5° | 690.7 | 682.0 | 674.8 | 661.8 | 647.3 | 637.2 | 628.5 | 622.7 | 619.9 | 618.4 | 619.9 |
| 70° | 593.8 | 586.6 | 579.4 | 569.3 | 557.7 | 549.1 | 543.3 | 537.5 | 534.6 | 533.2 | 533.2 |
| 72.5° | 501.4 | 495.6 | 488.4 | 479.7 | 471.0 | 462.4 | 456.6 | 452.2 | 449.4 | 447.9 | 447.9 |
| 75° | 407.5 | 401.7 | 398.8 | 391.6 | 382.9 | 377.1 | 371.3 | 368.4 | 365.6 | 365.6 | 365.6 |
| 77.5° | 319.3 | 316.4 | 313.5 | 306.3 | 300.5 | 294.8 | 290.4 | 289.0 | 286.1 | 286.1 | 286.1 |
| 80° | 235.5 | 234.1 | 232.6 | 228.3 | 222.5 | 216.7 | 213.8 | 212.4 | 211.0 | 211.0 | 211.0 |
| 82.5° | 158.9 | 158.9 | 157.5 | 153.2 | 148.8 | 147.4 | 144.5 | 143.0 | 143.0 | 143.0 | 143.0 |
| 85° | 91.0 | 91.0 | 91.0 | 89.6 | 86.7 | 86.7 | 83.8 | 82.4 | 80.9 | 80.9 | 80.9 |
| 87.5° | 36.1 | 37.6 | 39.0 | 37.6 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 |
| 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: P709198

CATALOG NUMBER: 4APN-39-42L950-UNV

CANDELA DISTRIBUTION (continued):

| | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° | 190° | 200° | 210° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2460.6 | 2460.6 | 2460.6 | 2460.6 | 2460.6 | 2460.6 | 2460.6 | 2460.6 | 2460.6 | 2460.6 | 2460.6 |
| 2.5° | 2436.1 | 2438.9 | 2440.4 | 2447.6 | 2456.3 | 2462.1 | 2454.8 | 2447.6 | 2459.2 | 2472.2 | 2472.2 |
| 5° | 2411.5 | 2414.4 | 2418.7 | 2427.4 | 2438.9 | 2446.2 | 2443.3 | 2437.5 | 2454.8 | 2469.3 | 2470.7 |
| 7.5° | 2381.2 | 2384.0 | 2389.8 | 2398.5 | 2412.9 | 2423.1 | 2423.1 | 2424.5 | 2440.4 | 2457.7 | 2462.1 |
| 10° | 2336.4 | 2343.6 | 2352.3 | 2365.3 | 2379.7 | 2392.7 | 2397.0 | 2398.5 | 2418.7 | 2437.5 | 2443.3 |
| 12.5° | 2294.5 | 2301.7 | 2310.4 | 2324.8 | 2342.1 | 2356.6 | 2360.9 | 2366.7 | 2388.4 | 2410.1 | 2418.7 |
| 15° | 2246.8 | 2254.0 | 2264.1 | 2278.6 | 2297.4 | 2313.2 | 2321.9 | 2330.6 | 2352.3 | 2375.4 | 2385.5 |
| 17.5° | 2190.4 | 2197.7 | 2207.8 | 2225.1 | 2246.8 | 2265.6 | 2275.7 | 2285.8 | 2310.4 | 2334.9 | 2345.0 |
| 20° | 2124.0 | 2134.1 | 2148.5 | 2165.9 | 2190.4 | 2212.1 | 2223.7 | 2235.2 | 2261.2 | 2285.8 | 2297.4 |
| 22.5° | 2056.1 | 2067.6 | 2083.5 | 2103.7 | 2129.7 | 2152.9 | 2167.3 | 2181.8 | 2207.8 | 2232.3 | 2245.3 |
| 25° | 1988.1 | 2001.2 | 2017.0 | 2038.7 | 2063.3 | 2086.4 | 2103.7 | 2121.1 | 2147.1 | 2173.1 | 2186.1 |
| 27.5° | 1918.8 | 1930.4 | 1946.2 | 1967.9 | 1995.4 | 2019.9 | 2037.3 | 2056.1 | 2082.1 | 2109.5 | 2122.5 |
| 30° | 1842.2 | 1855.2 | 1869.7 | 1891.3 | 1921.7 | 1949.1 | 1966.5 | 1986.7 | 2012.7 | 2040.2 | 2053.2 |
| 32.5° | 1768.5 | 1780.1 | 1794.5 | 1816.2 | 1846.5 | 1875.4 | 1894.2 | 1914.5 | 1940.5 | 1967.9 | 1979.5 |
| 35° | 1691.9 | 1703.5 | 1719.4 | 1741.1 | 1771.4 | 1798.9 | 1817.7 | 1837.9 | 1862.4 | 1888.5 | 1901.5 |
| 37.5° | 1616.8 | 1628.4 | 1644.3 | 1665.9 | 1694.8 | 1722.3 | 1741.1 | 1761.3 | 1785.9 | 1810.4 | 1822.0 |
| 40° | 1538.8 | 1550.4 | 1563.4 | 1585.0 | 1613.9 | 1641.4 | 1658.7 | 1678.9 | 1703.5 | 1729.5 | 1741.1 |
| 42.5° | 1459.3 | 1470.9 | 1486.8 | 1508.4 | 1535.9 | 1560.5 | 1579.2 | 1598.0 | 1621.1 | 1644.3 | 1655.8 |
| 45° | 1379.9 | 1390.0 | 1405.9 | 1426.1 | 1452.1 | 1475.2 | 1494.0 | 1512.8 | 1534.5 | 1556.1 | 1567.7 |
| 47.5° | 1297.5 | 1309.1 | 1322.1 | 1342.3 | 1368.3 | 1392.9 | 1411.6 | 1429.0 | 1449.2 | 1470.9 | 1481.0 |
| 50° | 1218.0 | 1228.1 | 1241.1 | 1259.9 | 1284.5 | 1307.6 | 1323.5 | 1340.8 | 1359.6 | 1379.9 | 1388.5 |
| 52.5° | 1135.7 | 1145.8 | 1158.8 | 1177.6 | 1197.8 | 1219.5 | 1233.9 | 1249.8 | 1268.6 | 1287.4 | 1296.1 |
| 55° | 1051.9 | 1059.1 | 1070.7 | 1088.0 | 1109.7 | 1129.9 | 1144.3 | 1160.2 | 1176.1 | 1192.0 | 1202.1 |
| 57.5° | 969.5 | 978.2 | 989.7 | 1005.6 | 1024.4 | 1043.2 | 1056.2 | 1069.2 | 1085.1 | 1101.0 | 1108.2 |
| 60° | 885.7 | 892.9 | 901.6 | 916.1 | 934.8 | 950.7 | 963.7 | 976.7 | 989.7 | 1004.2 | 1011.4 |
| 62.5° | 800.5 | 807.7 | 816.4 | 830.8 | 846.7 | 861.1 | 872.7 | 884.3 | 895.8 | 908.8 | 916.1 |
| 65° | 715.2 | 722.4 | 731.1 | 741.2 | 754.2 | 767.2 | 778.8 | 790.3 | 799.0 | 807.7 | 814.9 |
| 67.5° | 622.7 | 630.0 | 638.6 | 647.3 | 658.9 | 671.9 | 680.5 | 690.7 | 699.3 | 709.4 | 713.8 |
| 70° | 536.0 | 541.8 | 550.5 | 557.7 | 567.8 | 576.5 | 583.7 | 592.4 | 598.2 | 606.8 | 614.1 |
| 72.5° | 450.8 | 456.6 | 463.8 | 471.0 | 476.8 | 484.0 | 492.7 | 499.9 | 507.2 | 515.8 | 518.7 |
| 75° | 368.4 | 371.3 | 377.1 | 382.9 | 388.7 | 394.5 | 398.8 | 404.6 | 410.3 | 416.1 | 420.5 |
| 77.5° | 287.5 | 290.4 | 296.2 | 300.5 | 304.9 | 309.2 | 312.1 | 315.0 | 320.8 | 325.1 | 329.4 |
| 80° | 211.0 | 213.8 | 218.2 | 222.5 | 226.8 | 231.2 | 231.2 | 231.2 | 238.4 | 244.2 | 245.6 |
| 82.5° | 143.0 | 144.5 | 147.4 | 150.3 | 153.2 | 156.0 | 156.0 | 154.6 | 158.9 | 163.3 | 166.2 |
| 85° | 82.4 | 83.8 | 86.7 | 86.7 | 88.1 | 88.1 | 88.1 | 88.1 | 91.0 | 95.4 | 98.3 |
| 87.5° | 33.2 | 33.2 | 34.7 | 34.7 | 36.1 | 36.1 | 34.7 | 33.2 | 36.1 | 40.5 | 41.9 |
| 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: P709198

CATALOG NUMBER: 4APN-39-42L950-UNV

CANDELA DISTRIBUTION (continued):

| | 220° | 230° | 240° | 250° | 260° | 270° | 280° | 290° | 300° | 310° | 320° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2460.6 | 2460.6 | 2460.6 | 2460.6 | 2460.6 | 2460.6 | 2460.6 | 2460.6 | 2460.6 | 2460.6 | 2460.6 |
| 2.5° | 2466.4 | 2465.0 | 2469.3 | 2470.7 | 2473.6 | 2473.6 | 2475.1 | 2475.1 | 2472.2 | 2467.8 | 2469.3 |
| 5° | 2467.8 | 2467.8 | 2472.2 | 2476.5 | 2482.3 | 2488.1 | 2483.7 | 2479.4 | 2476.5 | 2472.2 | 2470.7 |
| 7.5° | 2460.6 | 2463.5 | 2467.8 | 2475.1 | 2482.3 | 2491.0 | 2485.2 | 2479.4 | 2472.2 | 2466.4 | 2463.5 |
| 10° | 2443.3 | 2446.2 | 2453.4 | 2460.6 | 2467.8 | 2475.1 | 2469.3 | 2463.5 | 2457.7 | 2450.5 | 2447.6 |
| 12.5° | 2421.6 | 2425.9 | 2434.6 | 2441.8 | 2449.1 | 2457.7 | 2450.5 | 2443.3 | 2436.1 | 2428.8 | 2424.5 |
| 15° | 2389.8 | 2395.6 | 2405.7 | 2414.4 | 2424.5 | 2431.7 | 2425.9 | 2420.2 | 2411.5 | 2401.4 | 2394.2 |
| 17.5° | 2349.4 | 2358.0 | 2368.1 | 2378.3 | 2386.9 | 2394.2 | 2389.8 | 2384.0 | 2373.9 | 2362.4 | 2353.7 |
| 20° | 2304.6 | 2313.2 | 2321.9 | 2332.0 | 2342.1 | 2349.4 | 2343.6 | 2336.4 | 2326.2 | 2317.6 | 2308.9 |
| 22.5° | 2252.6 | 2261.2 | 2271.3 | 2280.0 | 2288.7 | 2295.9 | 2288.7 | 2280.0 | 2271.3 | 2262.7 | 2254.0 |
| 25° | 2193.3 | 2202.0 | 2213.5 | 2222.2 | 2228.0 | 2233.8 | 2228.0 | 2220.8 | 2212.1 | 2203.4 | 2194.8 |
| 27.5° | 2131.2 | 2139.9 | 2151.4 | 2160.1 | 2165.9 | 2171.6 | 2165.9 | 2158.6 | 2150.0 | 2141.3 | 2132.6 |
| 30° | 2061.8 | 2070.5 | 2082.1 | 2090.7 | 2095.1 | 2099.4 | 2093.6 | 2087.8 | 2080.6 | 2072.0 | 2063.3 |
| 32.5° | 1988.1 | 1996.8 | 2005.5 | 2014.2 | 2021.4 | 2027.2 | 2021.4 | 2015.6 | 2006.9 | 1995.4 | 1986.7 |
| 35° | 1910.1 | 1918.8 | 1928.9 | 1937.6 | 1946.2 | 1953.5 | 1944.8 | 1934.7 | 1927.5 | 1920.2 | 1913.0 |
| 37.5° | 1827.8 | 1837.9 | 1849.4 | 1859.6 | 1862.4 | 1868.2 | 1862.4 | 1856.7 | 1849.4 | 1842.2 | 1833.5 |
| 40° | 1746.9 | 1755.5 | 1765.6 | 1775.8 | 1780.1 | 1784.4 | 1778.6 | 1772.9 | 1764.2 | 1757.0 | 1748.3 |
| 42.5° | 1663.1 | 1671.7 | 1680.4 | 1689.1 | 1694.8 | 1700.6 | 1694.8 | 1686.2 | 1680.4 | 1674.6 | 1667.4 |
| 45° | 1576.4 | 1585.0 | 1592.3 | 1600.9 | 1605.3 | 1609.6 | 1603.8 | 1596.6 | 1590.8 | 1586.5 | 1579.2 |
| 47.5° | 1488.2 | 1495.4 | 1502.7 | 1509.9 | 1512.8 | 1517.1 | 1511.3 | 1507.0 | 1502.7 | 1498.3 | 1492.6 |
| 50° | 1395.7 | 1403.0 | 1411.6 | 1418.9 | 1420.3 | 1424.6 | 1418.9 | 1414.5 | 1410.2 | 1405.9 | 1401.5 |
| 52.5° | 1304.7 | 1310.5 | 1317.7 | 1325.0 | 1327.8 | 1330.7 | 1325.0 | 1319.2 | 1314.8 | 1311.9 | 1307.6 |
| 55° | 1209.4 | 1215.1 | 1222.4 | 1228.1 | 1232.5 | 1235.4 | 1229.6 | 1223.8 | 1219.5 | 1218.0 | 1213.7 |
| 57.5° | 1114.0 | 1119.8 | 1127.0 | 1132.8 | 1135.7 | 1138.6 | 1132.8 | 1127.0 | 1124.1 | 1121.2 | 1118.3 |
| 60° | 1017.2 | 1023.0 | 1028.8 | 1033.1 | 1036.0 | 1037.4 | 1031.6 | 1027.3 | 1025.9 | 1024.4 | 1021.5 |
| 62.5° | 921.8 | 924.7 | 930.5 | 933.4 | 936.3 | 937.7 | 933.4 | 930.5 | 929.1 | 927.6 | 926.2 |
| 65° | 822.1 | 829.4 | 833.7 | 836.6 | 836.6 | 838.0 | 833.7 | 832.2 | 830.8 | 829.4 | 826.5 |
| 67.5° | 719.5 | 725.3 | 728.2 | 731.1 | 731.1 | 731.1 | 731.1 | 731.1 | 729.7 | 726.8 | 723.9 |
| 70° | 621.3 | 625.6 | 628.5 | 630.0 | 630.0 | 630.0 | 627.1 | 625.6 | 627.1 | 627.1 | 625.6 |
| 72.5° | 521.6 | 524.5 | 525.9 | 527.4 | 525.9 | 525.9 | 525.9 | 528.8 | 528.8 | 527.4 | 524.5 |
| 75° | 424.8 | 427.7 | 429.1 | 430.6 | 429.1 | 429.1 | 429.1 | 432.0 | 430.6 | 430.6 | 429.1 |
| 77.5° | 333.8 | 335.2 | 335.2 | 336.7 | 335.2 | 335.2 | 336.7 | 339.5 | 338.1 | 338.1 | 338.1 |
| 80° | 247.1 | 247.1 | 247.1 | 248.5 | 247.1 | 247.1 | 248.5 | 251.4 | 250.0 | 250.0 | 250.0 |
| 82.5° | 167.6 | 169.1 | 169.1 | 169.1 | 170.5 | 171.9 | 171.9 | 171.9 | 171.9 | 171.9 | 170.5 |
| 85° | 99.7 | 101.1 | 99.7 | 99.7 | 99.7 | 99.7 | 101.1 | 102.6 | 102.6 | 102.6 | 102.6 |
| 87.5° | 43.3 | 44.8 | 43.3 | 41.9 | 40.5 | 40.5 | 43.3 | 46.2 | 46.2 | 44.8 | 44.8 |
| 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: P709198

CATALOG NUMBER: 4APN-39-42L950-UNV

CANDELA DISTRIBUTION (continued):

| | 330° | 340° | 350° | 360° |
|-------|--------|--------|--------|--------|
| 0° | 2460.6 | 2460.6 | 2460.6 | 2460.6 |
| 2.5° | 2475.1 | 2475.1 | 2462.1 | 2449.1 |
| 5° | 2473.6 | 2470.7 | 2456.3 | 2440.4 |
| 7.5° | 2465.0 | 2460.6 | 2441.8 | 2424.5 |
| 10° | 2444.7 | 2438.9 | 2418.7 | 2397.0 |
| 12.5° | 2420.2 | 2411.5 | 2388.4 | 2366.7 |
| 15° | 2388.4 | 2378.3 | 2353.7 | 2329.1 |
| 17.5° | 2346.5 | 2334.9 | 2310.4 | 2284.3 |
| 20° | 2301.7 | 2288.7 | 2261.2 | 2233.8 |
| 22.5° | 2246.8 | 2235.2 | 2206.3 | 2178.9 |
| 25° | 2187.5 | 2174.5 | 2145.6 | 2116.7 |
| 27.5° | 2124.0 | 2109.5 | 2080.6 | 2053.2 |
| 30° | 2054.6 | 2040.2 | 2011.3 | 1983.8 |
| 32.5° | 1980.9 | 1969.4 | 1940.5 | 1910.1 |
| 35° | 1905.8 | 1891.3 | 1862.4 | 1833.5 |
| 37.5° | 1826.3 | 1813.3 | 1785.9 | 1758.4 |
| 40° | 1742.5 | 1729.5 | 1700.6 | 1673.2 |
| 42.5° | 1660.2 | 1648.6 | 1621.1 | 1595.1 |
| 45° | 1572.0 | 1560.5 | 1534.5 | 1511.3 |
| 47.5° | 1483.9 | 1472.3 | 1447.8 | 1423.2 |
| 50° | 1394.3 | 1382.7 | 1359.6 | 1338.0 |
| 52.5° | 1300.4 | 1291.7 | 1270.0 | 1248.4 |
| 55° | 1206.5 | 1196.4 | 1174.7 | 1155.9 |
| 57.5° | 1112.6 | 1105.3 | 1085.1 | 1066.3 |
| 60° | 1015.7 | 1007.1 | 991.2 | 975.3 |
| 62.5° | 921.8 | 914.6 | 898.7 | 884.3 |
| 65° | 822.1 | 816.4 | 803.4 | 790.3 |
| 67.5° | 719.5 | 715.2 | 702.2 | 690.7 |
| 70° | 621.3 | 614.1 | 604.0 | 593.8 |
| 72.5° | 521.6 | 518.7 | 510.0 | 501.4 |
| 75° | 426.2 | 423.3 | 414.7 | 407.5 |
| 77.5° | 336.7 | 333.8 | 326.5 | 319.3 |
| 80° | 248.5 | 247.1 | 241.3 | 235.5 |
| 82.5° | 170.5 | 169.1 | 164.7 | 158.9 |
| 85° | 102.6 | 99.7 | 95.4 | 91.0 |
| 87.5° | 44.8 | 43.3 | 39.0 | 36.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)