

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: P

Luminaire Tested: **4APN-35-37L840-UNV-NP**

Issue Date: 06/06/2024



Test Information

Test Method: LM-79-08
Report Number: P
Test Lab: INNOVATION CENTER(G2)
Issue Date: 06/06/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 4APN-35-37L840-UNV-NP
Description: ArcMed Patient Recessed 4 FT x6 IN Fixture Ambient and Exam Light
w/ Nature Pattern Lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

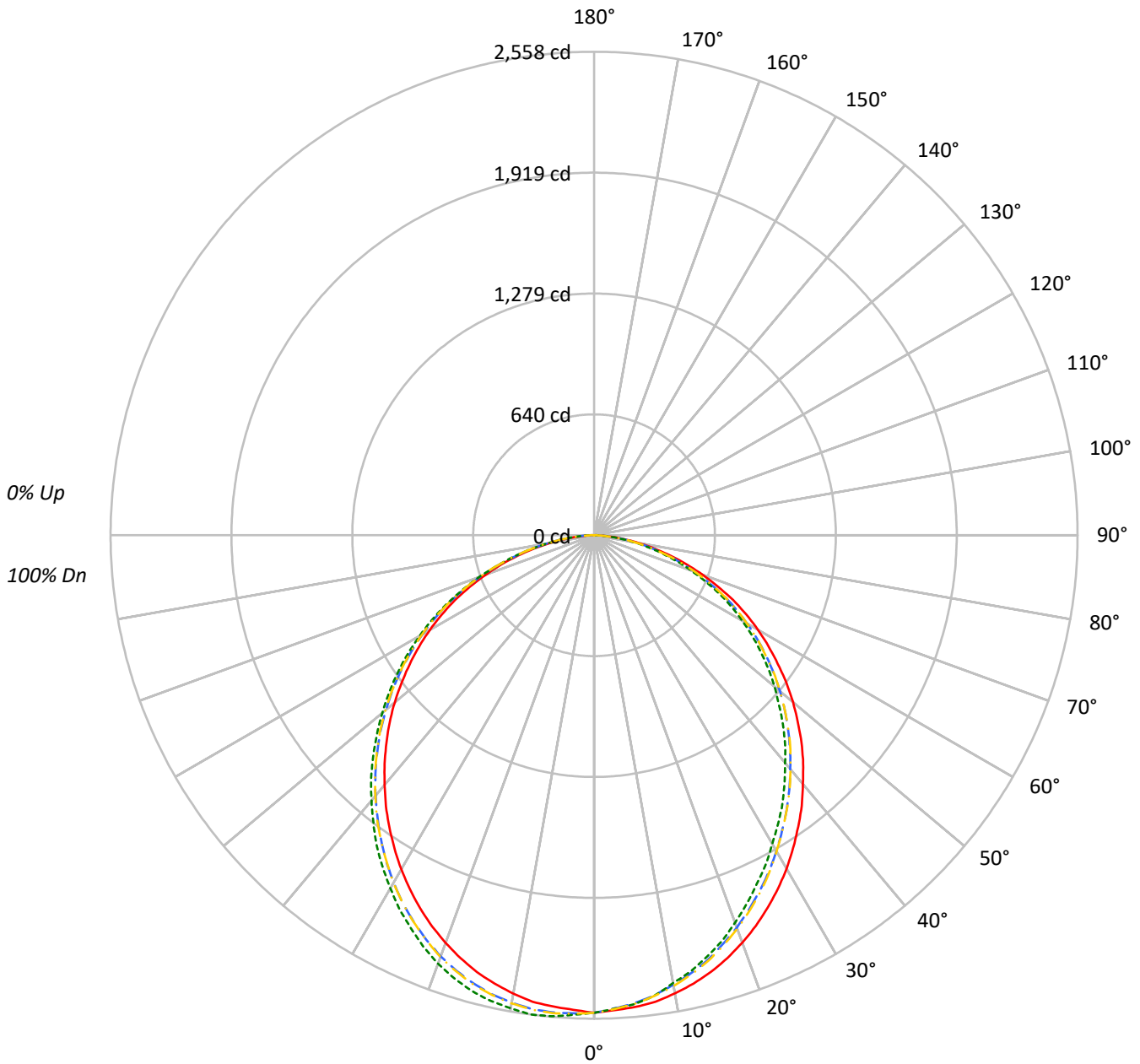
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6678.4 lumens
Efficiency: N/A
Efficacy: 82.4 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 (A_{in}): 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: P
CATALOG NUMBER: 4APN-35-37L840-UNV-NP

Luminous Intensity Polar Plot



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



TEST NUMBER: P
 CATALOG NUMBER: 4APN-35-37L840-UNV-NP

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|-------|
| 0° | 23310 | 23310 | 23310 | 23310 |
| 5° | 23206 | 23055 | 23180 | 23660 |
| 10° | 23058 | 22543 | 23072 | 23808 |
| 15° | 22843 | 22049 | 22857 | 23850 |
| 20° | 22519 | 21412 | 22533 | 23684 |
| 25° | 22125 | 20736 | 22171 | 23349 |
| 30° | 21700 | 20088 | 21732 | 22965 |
| 35° | 21204 | 19566 | 21255 | 22592 |
| 40° | 20692 | 18940 | 20763 | 22067 |
| 45° | 20248 | 18427 | 20267 | 21564 |
| 50° | 19719 | 17887 | 19760 | 20996 |
| 55° | 19092 | 17301 | 19163 | 20403 |
| 60° | 18478 | 16698 | 18506 | 19656 |
| 65° | 17716 | 15967 | 17716 | 18786 |
| 70° | 16447 | 14766 | 16407 | 17451 |
| 75° | 14915 | 13378 | 14808 | 15706 |
| 80° | 12847 | 11508 | 12613 | 13474 |
| 85° | 9898 | 8797 | 9580 | 10829 |



TEST NUMBER: P
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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 238.6 | 3.6 |
| 10°-20° | 675.5 | 10.1 |
| 20°-30° | 1000.2 | 15.0 |
| 30°-40° | 1173.4 | 17.6 |
| 40°-50° | 1189.2 | 17.8 |
| 50°-60° | 1055.5 | 15.8 |
| 60°-70° | 792.4 | 11.9 |
| 70°-80° | 440.0 | 6.6 |
| 80°-90° | 113.6 | 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° | 1914.3 | 28.7 |
| 0°-40° | 3087.7 | 46.2 |
| 0°-60° | 5332.4 | 79.8 |
| 0°-90° | 6678.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6678.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2526 | 2526 | 2526 | 2526 | 2526 | |
| 5° | 2506 | 2489 | 2503 | 2555 | 2506 | 238 |
| 15° | 2392 | 2308 | 2393 | 2497 | 2392 | 674 |
| 25° | 2173 | 2037 | 2178 | 2294 | 2173 | 1001 |
| 35° | 1883 | 1737 | 1887 | 2006 | 1883 | 1178 |
| 45° | 1552 | 1412 | 1553 | 1653 | 1552 | 1196 |
| 55° | 1187 | 1076 | 1191 | 1268 | 1187 | 1062 |
| 65° | 812 | 731 | 812 | 860 | 812 | 800 |
| 75° | 418 | 375 | 415 | 441 | 418 | 445 |
| 85° | 94 | 83 | 90 | 102 | 94 | 113 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P

CATALOG NUMBER: 4APN-35-37L840-UNV-NP

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2526.5 | 2526.5 | 2526.5 | 2526.5 | 2526.5 | 2526.5 | 2526.5 | 2526.5 | 2526.5 | 2526.5 | 2526.5 |
| 2.5° | 2514.7 | 2520.6 | 2527.9 | 2520.6 | 2508.7 | 2502.8 | 2502.8 | 2501.3 | 2505.7 | 2507.2 | 2505.7 |
| 5° | 2505.7 | 2508.7 | 2510.1 | 2501.3 | 2487.9 | 2480.5 | 2477.5 | 2476.0 | 2482.0 | 2489.4 | 2482.0 |
| 7.5° | 2489.4 | 2487.9 | 2486.4 | 2474.6 | 2459.7 | 2449.4 | 2444.9 | 2443.4 | 2449.4 | 2456.8 | 2450.9 |
| 10° | 2461.2 | 2459.7 | 2455.3 | 2440.4 | 2421.2 | 2407.8 | 2403.4 | 2399.0 | 2403.4 | 2406.3 | 2403.4 |
| 12.5° | 2430.0 | 2424.1 | 2418.2 | 2401.9 | 2381.1 | 2366.3 | 2358.8 | 2352.9 | 2358.8 | 2363.3 | 2360.3 |
| 15° | 2391.5 | 2382.6 | 2372.2 | 2354.4 | 2333.7 | 2317.4 | 2308.4 | 2302.5 | 2306.9 | 2308.4 | 2308.4 |
| 17.5° | 2345.5 | 2335.1 | 2324.7 | 2302.5 | 2277.2 | 2259.5 | 2249.0 | 2241.7 | 2247.6 | 2250.5 | 2250.5 |
| 20° | 2293.6 | 2281.7 | 2268.4 | 2244.6 | 2217.9 | 2198.6 | 2186.8 | 2177.9 | 2179.3 | 2180.8 | 2180.8 |
| 22.5° | 2237.2 | 2222.4 | 2206.1 | 2180.8 | 2152.6 | 2131.8 | 2120.0 | 2109.6 | 2109.6 | 2111.1 | 2111.1 |
| 25° | 2173.4 | 2157.1 | 2140.8 | 2115.5 | 2085.8 | 2063.6 | 2048.8 | 2038.4 | 2038.4 | 2036.9 | 2039.9 |
| 27.5° | 2108.2 | 2090.4 | 2074.0 | 2047.3 | 2016.1 | 1993.9 | 1979.1 | 1968.7 | 1967.2 | 1965.7 | 1968.7 |
| 30° | 2036.9 | 2016.1 | 1998.3 | 1970.1 | 1940.5 | 1918.2 | 1903.4 | 1891.6 | 1888.5 | 1885.6 | 1888.5 |
| 32.5° | 1961.3 | 1942.0 | 1922.6 | 1893.1 | 1863.4 | 1841.0 | 1826.3 | 1814.4 | 1812.9 | 1811.5 | 1814.4 |
| 35° | 1882.6 | 1861.9 | 1844.1 | 1815.9 | 1786.2 | 1764.0 | 1747.7 | 1737.2 | 1737.2 | 1737.2 | 1737.2 |
| 37.5° | 1805.5 | 1784.7 | 1765.4 | 1737.2 | 1707.5 | 1685.3 | 1669.0 | 1658.6 | 1655.6 | 1654.2 | 1655.6 |
| 40° | 1718.0 | 1700.2 | 1682.4 | 1655.6 | 1625.9 | 1603.7 | 1590.4 | 1578.5 | 1575.5 | 1572.6 | 1577.0 |
| 42.5° | 1637.8 | 1620.0 | 1600.8 | 1575.5 | 1545.8 | 1523.6 | 1508.8 | 1498.4 | 1496.9 | 1495.4 | 1496.9 |
| 45° | 1551.8 | 1531.1 | 1511.7 | 1488.0 | 1461.3 | 1440.5 | 1425.7 | 1415.3 | 1413.8 | 1412.3 | 1413.8 |
| 47.5° | 1461.3 | 1445.0 | 1428.6 | 1404.9 | 1378.2 | 1357.5 | 1344.1 | 1332.2 | 1329.2 | 1326.3 | 1329.2 |
| 50° | 1373.8 | 1356.0 | 1339.7 | 1317.4 | 1292.2 | 1272.9 | 1261.0 | 1250.6 | 1247.7 | 1246.2 | 1247.7 |
| 52.5° | 1281.8 | 1265.4 | 1250.6 | 1228.4 | 1207.6 | 1188.4 | 1175.0 | 1166.1 | 1164.6 | 1163.1 | 1164.6 |
| 55° | 1186.9 | 1172.0 | 1158.7 | 1140.9 | 1120.0 | 1102.3 | 1090.4 | 1080.0 | 1078.6 | 1075.6 | 1078.6 |
| 57.5° | 1094.9 | 1083.0 | 1069.6 | 1050.3 | 1031.1 | 1014.8 | 1004.3 | 995.5 | 994.0 | 992.5 | 994.0 |
| 60° | 1001.4 | 989.5 | 977.7 | 961.4 | 942.1 | 925.8 | 916.8 | 909.5 | 906.4 | 904.9 | 906.4 |
| 62.5° | 907.9 | 896.1 | 887.1 | 870.8 | 853.0 | 839.7 | 830.8 | 823.3 | 820.4 | 818.9 | 820.4 |
| 65° | 811.5 | 801.1 | 790.7 | 775.9 | 762.6 | 752.2 | 743.2 | 735.8 | 732.9 | 731.4 | 731.4 |
| 67.5° | 709.1 | 700.3 | 692.8 | 679.5 | 664.7 | 654.3 | 645.3 | 639.4 | 636.5 | 635.0 | 636.5 |
| 70° | 609.7 | 602.3 | 594.9 | 584.5 | 572.7 | 563.7 | 557.8 | 551.9 | 549.0 | 547.4 | 547.4 |
| 72.5° | 514.8 | 508.9 | 501.5 | 492.5 | 483.7 | 474.7 | 468.8 | 464.3 | 461.4 | 459.9 | 459.9 |
| 75° | 418.4 | 412.4 | 409.5 | 402.1 | 393.1 | 387.2 | 381.2 | 378.3 | 375.3 | 375.3 | 375.3 |
| 77.5° | 327.9 | 324.9 | 322.0 | 314.5 | 308.6 | 302.6 | 298.2 | 296.7 | 293.7 | 293.7 | 293.7 |
| 80° | 241.8 | 240.4 | 238.9 | 234.4 | 228.5 | 222.6 | 219.5 | 218.1 | 216.6 | 216.6 | 216.6 |
| 82.5° | 163.2 | 163.2 | 161.7 | 157.3 | 152.8 | 151.3 | 148.3 | 146.9 | 146.9 | 146.9 | 146.9 |
| 85° | 93.5 | 93.5 | 93.5 | 92.0 | 89.0 | 89.0 | 86.0 | 84.5 | 83.1 | 83.1 | 83.1 |
| 87.5° | 37.1 | 38.5 | 40.0 | 38.5 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 |
| 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: P
 CATALOG NUMBER: 4APN-35-37L840-UNV-NP

CANDELA DISTRIBUTION (continued):

| | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° | 190° | 200° | 210° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2526.5 | 2526.5 | 2526.5 | 2526.5 | 2526.5 | 2526.5 | 2526.5 | 2526.5 | 2526.5 | 2526.5 | 2526.5 |
| 2.5° | 2501.3 | 2504.2 | 2505.7 | 2513.2 | 2522.0 | 2527.9 | 2520.6 | 2513.2 | 2525.0 | 2538.4 | 2538.4 |
| 5° | 2476.0 | 2479.0 | 2483.5 | 2492.4 | 2504.2 | 2511.6 | 2508.7 | 2502.8 | 2520.6 | 2535.4 | 2536.9 |
| 7.5° | 2444.9 | 2447.9 | 2453.8 | 2462.7 | 2477.5 | 2487.9 | 2487.9 | 2489.4 | 2505.7 | 2523.5 | 2527.9 |
| 10° | 2399.0 | 2406.3 | 2415.3 | 2428.5 | 2443.4 | 2456.8 | 2461.2 | 2462.7 | 2483.5 | 2502.8 | 2508.7 |
| 12.5° | 2355.9 | 2363.3 | 2372.2 | 2387.1 | 2404.9 | 2419.7 | 2424.1 | 2430.0 | 2452.3 | 2474.6 | 2483.5 |
| 15° | 2306.9 | 2314.3 | 2324.7 | 2339.6 | 2358.8 | 2375.2 | 2384.1 | 2393.0 | 2415.3 | 2439.0 | 2449.4 |
| 17.5° | 2249.0 | 2256.5 | 2266.8 | 2284.7 | 2306.9 | 2326.2 | 2336.6 | 2347.0 | 2372.2 | 2397.4 | 2407.8 |
| 20° | 2180.8 | 2191.2 | 2206.1 | 2223.9 | 2249.0 | 2271.3 | 2283.1 | 2295.0 | 2321.8 | 2347.0 | 2358.8 |
| 22.5° | 2111.1 | 2123.0 | 2139.3 | 2160.1 | 2186.8 | 2210.5 | 2225.3 | 2240.2 | 2266.8 | 2292.1 | 2305.5 |
| 25° | 2041.4 | 2054.8 | 2071.1 | 2093.3 | 2118.5 | 2142.3 | 2160.1 | 2177.9 | 2204.6 | 2231.2 | 2244.6 |
| 27.5° | 1970.1 | 1982.0 | 1998.3 | 2020.6 | 2048.8 | 2074.0 | 2091.8 | 2111.1 | 2137.8 | 2166.0 | 2179.3 |
| 30° | 1891.6 | 1904.9 | 1919.7 | 1942.0 | 1973.2 | 2001.3 | 2019.1 | 2039.9 | 2066.6 | 2094.8 | 2108.2 |
| 32.5° | 1815.9 | 1827.8 | 1842.6 | 1864.8 | 1896.0 | 1925.7 | 1945.0 | 1965.7 | 1992.4 | 2020.6 | 2032.5 |
| 35° | 1737.2 | 1749.1 | 1765.4 | 1787.7 | 1818.8 | 1847.0 | 1866.3 | 1887.1 | 1912.3 | 1939.0 | 1952.3 |
| 37.5° | 1660.1 | 1672.0 | 1688.3 | 1710.5 | 1740.2 | 1768.4 | 1787.7 | 1808.4 | 1833.7 | 1858.9 | 1870.7 |
| 40° | 1580.0 | 1591.8 | 1605.2 | 1627.4 | 1657.1 | 1685.3 | 1703.1 | 1723.9 | 1749.1 | 1775.8 | 1787.7 |
| 42.5° | 1498.4 | 1510.2 | 1526.6 | 1548.9 | 1577.0 | 1602.3 | 1621.5 | 1640.8 | 1664.6 | 1688.3 | 1700.2 |
| 45° | 1416.8 | 1427.2 | 1443.5 | 1464.2 | 1491.0 | 1514.8 | 1534.0 | 1553.3 | 1575.5 | 1597.8 | 1609.6 |
| 47.5° | 1332.2 | 1344.1 | 1357.5 | 1378.2 | 1404.9 | 1430.1 | 1449.5 | 1467.3 | 1488.0 | 1510.2 | 1520.7 |
| 50° | 1250.6 | 1261.0 | 1274.4 | 1293.7 | 1318.9 | 1342.6 | 1358.9 | 1376.7 | 1396.0 | 1416.8 | 1425.7 |
| 52.5° | 1166.1 | 1176.5 | 1189.8 | 1209.1 | 1229.9 | 1252.1 | 1266.9 | 1283.2 | 1302.6 | 1321.9 | 1330.7 |
| 55° | 1080.0 | 1087.4 | 1099.3 | 1117.1 | 1139.4 | 1160.2 | 1175.0 | 1191.3 | 1207.6 | 1224.0 | 1234.3 |
| 57.5° | 995.5 | 1004.3 | 1016.2 | 1032.5 | 1051.8 | 1071.1 | 1084.5 | 1097.8 | 1114.1 | 1130.5 | 1137.9 |
| 60° | 909.5 | 916.8 | 925.8 | 940.5 | 959.9 | 976.2 | 989.5 | 1002.9 | 1016.2 | 1031.1 | 1038.4 |
| 62.5° | 821.9 | 829.3 | 838.2 | 853.0 | 869.4 | 884.2 | 896.1 | 907.9 | 919.8 | 933.2 | 940.5 |
| 65° | 734.4 | 741.7 | 750.7 | 761.0 | 774.4 | 787.8 | 799.7 | 811.5 | 820.4 | 829.3 | 836.7 |
| 67.5° | 639.4 | 646.9 | 655.7 | 664.7 | 676.5 | 689.8 | 698.8 | 709.1 | 718.1 | 728.4 | 732.9 |
| 70° | 550.4 | 556.3 | 565.3 | 572.7 | 583.1 | 591.9 | 599.4 | 608.2 | 614.2 | 623.1 | 630.6 |
| 72.5° | 462.8 | 468.8 | 476.2 | 483.7 | 489.6 | 497.0 | 505.9 | 513.3 | 520.7 | 529.6 | 532.6 |
| 75° | 378.3 | 381.2 | 387.2 | 393.1 | 399.0 | 405.0 | 409.5 | 415.4 | 421.4 | 427.3 | 431.7 |
| 77.5° | 295.2 | 298.2 | 304.2 | 308.6 | 313.0 | 317.4 | 320.5 | 323.4 | 329.3 | 333.8 | 338.3 |
| 80° | 216.6 | 219.5 | 224.0 | 228.5 | 232.9 | 237.4 | 237.4 | 237.4 | 244.8 | 250.7 | 252.2 |
| 82.5° | 146.9 | 148.3 | 151.3 | 154.3 | 157.3 | 160.2 | 160.2 | 158.8 | 163.2 | 167.6 | 170.6 |
| 85° | 84.5 | 86.0 | 89.0 | 89.0 | 90.5 | 90.5 | 90.5 | 90.5 | 93.5 | 97.9 | 100.9 |
| 87.5° | 34.1 | 34.1 | 35.6 | 35.6 | 37.1 | 37.1 | 35.6 | 34.1 | 37.1 | 41.6 | 43.1 |
| 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: P

CATALOG NUMBER: 4APN-35-37L840-UNV-NP

CANDELA DISTRIBUTION (continued):

| | 220° | 230° | 240° | 250° | 260° | 270° | 280° | 290° | 300° | 310° | 320° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2526.5 | 2526.5 | 2526.5 | 2526.5 | 2526.5 | 2526.5 | 2526.5 | 2526.5 | 2526.5 | 2526.5 | 2526.5 |
| 2.5° | 2532.5 | 2531.0 | 2535.4 | 2536.9 | 2539.8 | 2539.8 | 2541.3 | 2541.3 | 2538.4 | 2533.9 | 2535.4 |
| 5° | 2533.9 | 2533.9 | 2538.4 | 2542.8 | 2548.8 | 2554.7 | 2550.3 | 2545.8 | 2542.8 | 2538.4 | 2536.9 |
| 7.5° | 2526.5 | 2529.5 | 2533.9 | 2541.3 | 2548.8 | 2557.6 | 2551.7 | 2545.8 | 2538.4 | 2532.5 | 2529.5 |
| 10° | 2508.7 | 2511.6 | 2519.1 | 2526.5 | 2533.9 | 2541.3 | 2535.4 | 2529.5 | 2523.5 | 2516.1 | 2513.2 |
| 12.5° | 2486.4 | 2490.9 | 2499.8 | 2507.2 | 2514.7 | 2523.5 | 2516.1 | 2508.7 | 2501.3 | 2493.8 | 2489.4 |
| 15° | 2453.8 | 2459.7 | 2470.1 | 2479.0 | 2489.4 | 2496.9 | 2490.9 | 2485.0 | 2476.0 | 2465.7 | 2458.2 |
| 17.5° | 2412.2 | 2421.2 | 2431.6 | 2441.9 | 2450.9 | 2458.2 | 2453.8 | 2447.9 | 2437.5 | 2425.6 | 2416.7 |
| 20° | 2366.3 | 2375.2 | 2384.1 | 2394.4 | 2404.9 | 2412.2 | 2406.3 | 2399.0 | 2388.5 | 2379.6 | 2370.7 |
| 22.5° | 2312.8 | 2321.8 | 2332.1 | 2341.1 | 2350.0 | 2357.4 | 2350.0 | 2341.1 | 2332.1 | 2323.3 | 2314.3 |
| 25° | 2252.1 | 2260.9 | 2272.8 | 2281.7 | 2287.7 | 2293.6 | 2287.7 | 2280.2 | 2271.3 | 2262.4 | 2253.6 |
| 27.5° | 2188.3 | 2197.1 | 2209.0 | 2217.9 | 2223.9 | 2229.8 | 2223.9 | 2216.4 | 2207.5 | 2198.6 | 2189.8 |
| 30° | 2117.0 | 2125.9 | 2137.8 | 2146.7 | 2151.1 | 2155.6 | 2149.6 | 2143.7 | 2136.4 | 2127.4 | 2118.5 |
| 32.5° | 2041.4 | 2050.3 | 2059.2 | 2068.0 | 2075.5 | 2081.4 | 2075.5 | 2069.5 | 2060.7 | 2048.8 | 2039.9 |
| 35° | 1961.3 | 1970.1 | 1980.5 | 1989.5 | 1998.3 | 2005.8 | 1996.9 | 1986.4 | 1979.1 | 1971.6 | 1964.2 |
| 37.5° | 1876.7 | 1887.1 | 1899.0 | 1909.4 | 1912.3 | 1918.2 | 1912.3 | 1906.3 | 1899.0 | 1891.6 | 1882.6 |
| 40° | 1793.7 | 1802.5 | 1812.9 | 1823.3 | 1827.8 | 1832.2 | 1826.3 | 1820.3 | 1811.5 | 1804.0 | 1795.1 |
| 42.5° | 1707.5 | 1716.5 | 1725.3 | 1734.3 | 1740.2 | 1746.2 | 1740.2 | 1731.3 | 1725.3 | 1719.4 | 1712.1 |
| 45° | 1618.6 | 1627.4 | 1634.9 | 1643.7 | 1648.3 | 1652.7 | 1646.8 | 1639.3 | 1633.4 | 1629.0 | 1621.5 |
| 47.5° | 1528.0 | 1535.5 | 1542.9 | 1550.3 | 1553.3 | 1557.7 | 1551.8 | 1547.4 | 1542.9 | 1538.4 | 1532.5 |
| 50° | 1433.2 | 1440.5 | 1449.5 | 1456.9 | 1458.3 | 1462.8 | 1456.9 | 1452.4 | 1447.9 | 1443.5 | 1439.1 |
| 52.5° | 1339.7 | 1345.6 | 1353.0 | 1360.4 | 1363.4 | 1366.3 | 1360.4 | 1354.5 | 1350.0 | 1347.0 | 1342.6 |
| 55° | 1241.7 | 1247.7 | 1255.1 | 1261.0 | 1265.4 | 1268.4 | 1262.5 | 1256.6 | 1252.1 | 1250.6 | 1246.2 |
| 57.5° | 1143.8 | 1149.7 | 1157.2 | 1163.1 | 1166.1 | 1169.0 | 1163.1 | 1157.2 | 1154.3 | 1151.2 | 1148.3 |
| 60° | 1044.4 | 1050.3 | 1056.3 | 1060.8 | 1063.7 | 1065.2 | 1059.3 | 1054.8 | 1053.3 | 1051.8 | 1048.9 |
| 62.5° | 946.5 | 949.5 | 955.4 | 958.4 | 961.4 | 962.8 | 958.4 | 955.4 | 953.9 | 952.4 | 951.0 |
| 65° | 844.2 | 851.6 | 856.0 | 858.9 | 858.9 | 860.5 | 856.0 | 854.5 | 853.0 | 851.6 | 848.6 |
| 67.5° | 738.8 | 744.7 | 747.7 | 750.7 | 750.7 | 750.7 | 750.7 | 750.7 | 749.2 | 746.3 | 743.2 |
| 70° | 637.9 | 642.4 | 645.3 | 646.9 | 646.9 | 646.9 | 643.8 | 642.4 | 643.8 | 643.8 | 642.4 |
| 72.5° | 535.6 | 538.5 | 540.0 | 541.5 | 540.0 | 540.0 | 540.0 | 543.0 | 543.0 | 541.5 | 538.5 |
| 75° | 436.2 | 439.1 | 440.6 | 442.1 | 440.6 | 440.6 | 440.6 | 443.6 | 442.1 | 442.1 | 440.6 |
| 77.5° | 342.7 | 344.2 | 344.2 | 345.7 | 344.2 | 344.2 | 345.7 | 348.6 | 347.1 | 347.1 | 347.1 |
| 80° | 253.6 | 253.6 | 253.6 | 255.2 | 253.6 | 253.6 | 255.2 | 258.2 | 256.7 | 256.7 | 256.7 |
| 82.5° | 172.1 | 173.6 | 173.6 | 173.6 | 175.1 | 176.6 | 176.6 | 176.6 | 176.6 | 176.6 | 175.1 |
| 85° | 102.3 | 103.8 | 102.3 | 102.3 | 102.3 | 102.3 | 103.8 | 105.3 | 105.3 | 105.3 | 105.3 |
| 87.5° | 44.5 | 46.0 | 44.5 | 43.1 | 41.6 | 41.6 | 44.5 | 47.5 | 47.5 | 46.0 | 46.0 |
| 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: P
 CATALOG NUMBER: 4APN-35-37L840-UNV-NP

CANDELA DISTRIBUTION (continued):

| | 330° | 340° | 350° | 360° |
|-------|--------|--------|--------|--------|
| 0° | 2526.5 | 2526.5 | 2526.5 | 2526.5 |
| 2.5° | 2541.3 | 2541.3 | 2527.9 | 2514.7 |
| 5° | 2539.8 | 2536.9 | 2522.0 | 2505.7 |
| 7.5° | 2531.0 | 2526.5 | 2507.2 | 2489.4 |
| 10° | 2510.1 | 2504.2 | 2483.5 | 2461.2 |
| 12.5° | 2485.0 | 2476.0 | 2452.3 | 2430.0 |
| 15° | 2452.3 | 2441.9 | 2416.7 | 2391.5 |
| 17.5° | 2409.3 | 2397.4 | 2372.2 | 2345.5 |
| 20° | 2363.3 | 2350.0 | 2321.8 | 2293.6 |
| 22.5° | 2306.9 | 2295.0 | 2265.4 | 2237.2 |
| 25° | 2246.1 | 2232.7 | 2203.1 | 2173.4 |
| 27.5° | 2180.8 | 2166.0 | 2136.4 | 2108.2 |
| 30° | 2109.6 | 2094.8 | 2065.1 | 2036.9 |
| 32.5° | 2033.9 | 2022.1 | 1992.4 | 1961.3 |
| 35° | 1956.9 | 1942.0 | 1912.3 | 1882.6 |
| 37.5° | 1875.3 | 1861.9 | 1833.7 | 1805.5 |
| 40° | 1789.1 | 1775.8 | 1746.2 | 1718.0 |
| 42.5° | 1704.6 | 1692.7 | 1664.6 | 1637.8 |
| 45° | 1614.1 | 1602.3 | 1575.5 | 1551.8 |
| 47.5° | 1523.6 | 1511.7 | 1486.5 | 1461.3 |
| 50° | 1431.6 | 1419.8 | 1396.0 | 1373.8 |
| 52.5° | 1335.2 | 1326.3 | 1304.1 | 1281.8 |
| 55° | 1238.8 | 1228.4 | 1206.2 | 1186.9 |
| 57.5° | 1142.4 | 1134.9 | 1114.1 | 1094.9 |
| 60° | 1043.0 | 1034.0 | 1017.7 | 1001.4 |
| 62.5° | 946.5 | 939.1 | 922.7 | 907.9 |
| 65° | 844.2 | 838.2 | 824.8 | 811.5 |
| 67.5° | 738.8 | 734.4 | 721.0 | 709.1 |
| 70° | 637.9 | 630.6 | 620.1 | 609.7 |
| 72.5° | 535.6 | 532.6 | 523.7 | 514.8 |
| 75° | 437.7 | 434.7 | 425.8 | 418.4 |
| 77.5° | 345.7 | 342.7 | 335.2 | 327.9 |
| 80° | 255.2 | 253.6 | 247.7 | 241.8 |
| 82.5° | 175.1 | 173.6 | 169.1 | 163.2 |
| 85° | 105.3 | 102.3 | 97.9 | 93.5 |
| 87.5° | 46.0 | 44.5 | 40.0 | 37.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)