

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: AMETRIX

Report Number: P508442

Luminaire Tested: **ASYX-X-S2-X-U-W-L40-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-840-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: AMETRIX
Catalog Number: ASYX-X-S2-X-U-W-L40-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(2) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

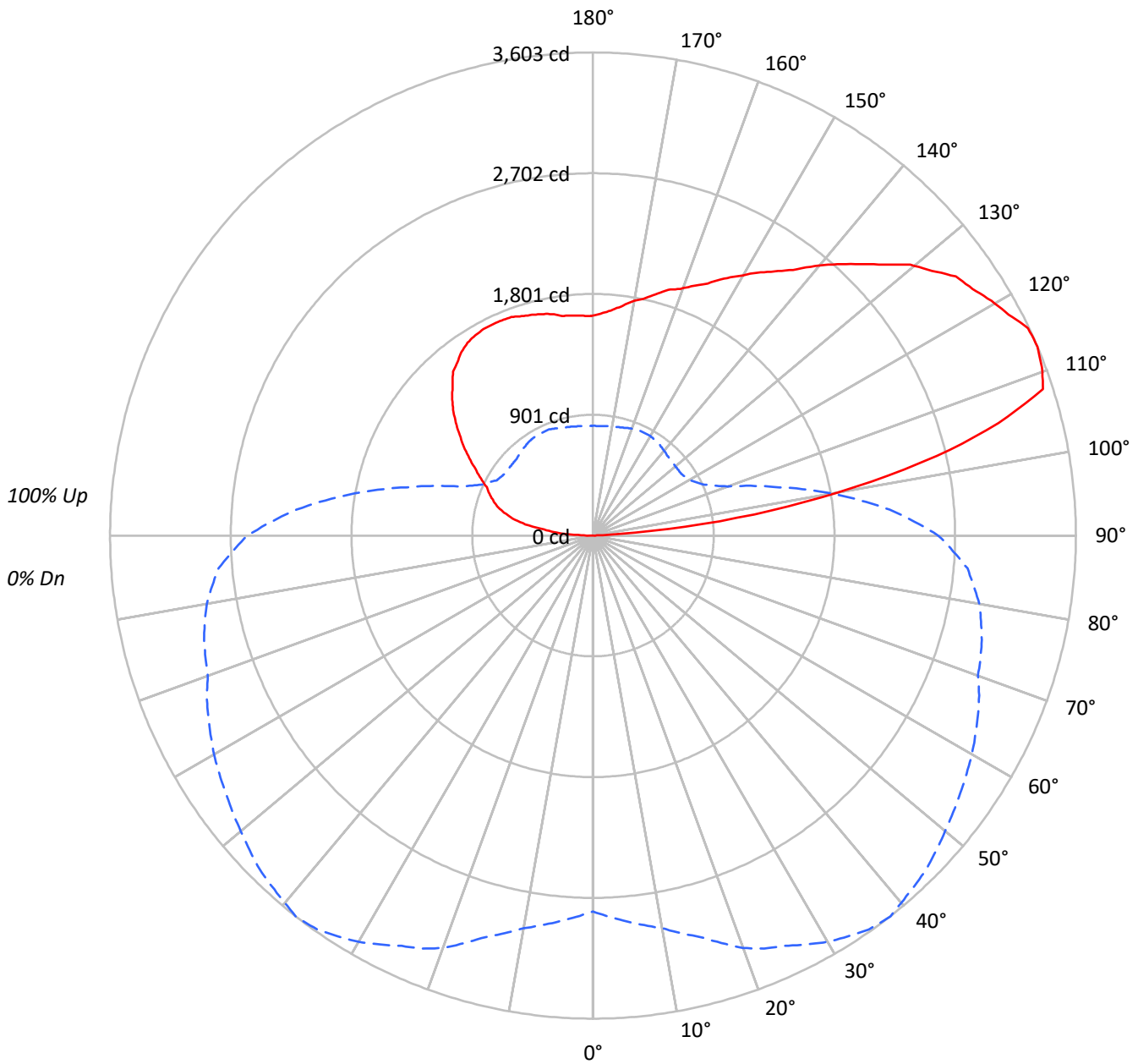
Lumens per Lamp: N/A
Luminaire Lumens: 10830.6 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
N/A
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
CIE Type: Indirect

Input Watts (W): 107.9
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: 24 FT



TEST NUMBER: P508442
CATALOG NUMBER: ASYX-X-S2-X-U-W-L40-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot



— Vertical Plane Through 38° Lateral - - - Horizontal Cone Through 112.5° Vertical



TEST NUMBER: P508442

CATALOG NUMBER: ASYX-X-S2-X-U-W-L40-1-UNV-X-X-X-STD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|----|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 |
| RC | 80 | | | | | | | | | 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 | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9 | 9 | 8 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8 | 7 | 7 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 72 | 63 | 57 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7 | 6 | 6 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6 | 6 | 5 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5 | 5 | 4 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5 | 4 | 4 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4 | 4 | 3 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9 | 4 | 3 | 3 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9 | 8 | 4 | 3 | 3 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8 | 7 | 3 | 3 | 2 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|------|--------|--------|-------|
| 95° | 50290 | 55971 | 71137 |
| 100° | 137127 | 106184 | 64752 |
| 105° | 137367 | 113404 | 59422 |
| 110° | 153021 | 139488 | 50040 |
| 115° | 161401 | 139884 | 41673 |
| 120° | 151306 | 123195 | 38694 |
| 125° | 132186 | 105373 | 38490 |
| 130° | 113707 | 87466 | 39875 |
| 135° | 96465 | 75068 | 40574 |
| 140° | 80949 | 63897 | 41878 |
| 145° | 68435 | 56220 | 41989 |
| 150° | 58238 | 49836 | 42102 |
| 155° | 50996 | 44611 | 40960 |
| 160° | 45929 | 40651 | 39858 |
| 165° | 42114 | 38263 | 38176 |
| 170° | 39123 | 36436 | 36604 |
| 175° | 36601 | 35523 | 35356 |



TEST NUMBER: P508442

CATALOG NUMBER: ASYX-X-S2-X-U-W-L40-1-UNV-X-X-X-STD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 0.0 | 0.0 |
| 10°-20° | 0.0 | 0.0 |
| 20°-30° | 0.0 | 0.0 |
| 30°-40° | 0.0 | 0.0 |
| 40°-50° | 0.0 | 0.0 |
| 50°-60° | 0.0 | 0.0 |
| 60°-70° | 0.0 | 0.0 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 0.0 | 0.0 |
| 90°-100° | 443.3 | 4.1 |
| 100°-110° | 1604.5 | 14.8 |
| 110°-120° | 2163.0 | 20.0 |
| 120°-130° | 2058.7 | 19.0 |
| 130°-140° | 1715.2 | 15.8 |
| 140°-150° | 1299.4 | 12.0 |
| 150°-160° | 884.3 | 8.2 |
| 160°-170° | 502.4 | 4.6 |
| 170°-180° | 159.8 | 1.5 |
| 0°-30° | 0.0 | 0.0 |
| 0°-40° | 0.0 | 0.0 |
| 0°-60° | 0.0 | 0.0 |
| 0°-90° | 0.0 | 0.0 |
| 90°-120° | 4210.8 | 38.9 |
| 90°-150° | 9284.1 | 85.7 |
| 90°-180° | 10831.0 | 100.0 |
| 0°-180° | 10830.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 90° | 0 | 0 | 0 | 0 | 0 | |
| 95° | 204 | 664 | 227 | 227 | 288 | 362 |
| 105° | 1652 | 3372 | 1363 | 603 | 714 | 1791 |
| 115° | 3168 | 3449 | 2746 | 872 | 818 | 3055 |
| 125° | 3522 | 3153 | 2808 | 1171 | 1026 | 3143 |
| 135° | 3168 | 2715 | 2466 | 1486 | 1333 | 2455 |
| 145° | 2604 | 2316 | 2139 | 1690 | 1598 | 1647 |
| 155° | 2147 | 2036 | 1878 | 1751 | 1724 | 1003 |
| 165° | 1890 | 1832 | 1717 | 1705 | 1713 | 539 |
| 175° | 1694 | 1671 | 1644 | 1640 | 1636 | 165 |
| 180° | 1636 | 1636 | 1636 | 1636 | 1636 | |



TEST NUMBER: P508442

CATALOG NUMBER: ASYX-X-S2-X-U-W-L40-1-UNV-X-X-X-STD

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 38° | 40° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 30.7 | 30.7 | 30.7 | 34.6 | 38.4 | 42.2 | 42.2 | 53.8 | 69.1 | 73.0 | 84.5 |
| 95° | 203.6 | 234.3 | 349.5 | 403.3 | 407.1 | 418.6 | 418.6 | 530.0 | 660.6 | 691.3 | 722.0 |
| 97.5° | 545.4 | 583.8 | 706.7 | 802.7 | 941.0 | 979.4 | 1025.5 | 1117.6 | 1259.7 | 1344.2 | 1386.5 |
| 100° | 1106.1 | 1113.8 | 1179.1 | 1267.4 | 1417.2 | 1501.7 | 1605.4 | 1858.9 | 1985.6 | 1985.6 | 1939.5 |
| 102.5° | 1401.8 | 1409.5 | 1467.1 | 1551.6 | 1728.3 | 1855.0 | 1974.1 | 2281.3 | 2538.7 | 2634.7 | 2673.1 |
| 105° | 1651.5 | 1678.4 | 1739.8 | 1858.9 | 2073.9 | 2216.1 | 2327.4 | 2676.9 | 2976.5 | 3141.6 | 3268.4 |
| 107.5° | 1970.2 | 2012.5 | 2116.2 | 2254.5 | 2511.8 | 2676.9 | 2819.0 | 3103.2 | 3364.4 | 3529.6 | 3525.7 |
| 110° | 2431.1 | 2454.2 | 2561.7 | 2742.2 | 2965.0 | 3095.6 | 3183.9 | 3383.6 | 3560.3 | 3575.6 | 3583.3 |
| 112.5° | 2803.7 | 2888.2 | 2972.7 | 3099.4 | 3272.2 | 3333.7 | 3375.9 | 3498.8 | 3587.2 | 3602.5 | 3575.6 |
| 115° | 3168.5 | 3199.3 | 3241.5 | 3326.0 | 3406.6 | 3468.1 | 3475.8 | 3541.1 | 3560.3 | 3594.8 | 3533.4 |
| 117.5° | 3395.1 | 3410.5 | 3414.3 | 3445.1 | 3487.3 | 3521.9 | 3514.2 | 3533.4 | 3556.4 | 3510.3 | 3479.6 |
| 120° | 3514.2 | 3529.6 | 3502.7 | 3514.2 | 3525.7 | 3533.4 | 3518.0 | 3525.7 | 3483.5 | 3448.9 | 3414.3 |
| 122.5° | 3560.3 | 3556.4 | 3529.6 | 3529.6 | 3514.2 | 3510.3 | 3479.6 | 3452.7 | 3422.0 | 3375.9 | 3333.7 |
| 125° | 3521.9 | 3537.2 | 3502.7 | 3475.8 | 3441.2 | 3498.8 | 3422.0 | 3395.1 | 3341.4 | 3326.0 | 3245.3 |
| 127.5° | 3471.9 | 3502.7 | 3445.1 | 3418.2 | 3383.6 | 3372.1 | 3326.0 | 3287.6 | 3249.2 | 3206.9 | 3153.2 |
| 130° | 3395.1 | 3406.6 | 3352.9 | 3326.0 | 3291.4 | 3256.9 | 3249.2 | 3164.7 | 3137.8 | 3110.9 | 3037.9 |
| 132.5° | 3318.3 | 3299.1 | 3245.3 | 3210.8 | 3168.5 | 3149.3 | 3130.1 | 3057.2 | 3018.7 | 2961.1 | 2922.7 |
| 135° | 3168.5 | 3172.4 | 3122.4 | 3084.0 | 3026.4 | 3026.4 | 2991.9 | 2938.1 | 2888.2 | 2838.2 | 2788.3 |
| 137.5° | 3026.4 | 3053.3 | 2980.3 | 2945.8 | 2915.0 | 2892.0 | 2845.9 | 2796.0 | 2742.2 | 2723.0 | 2684.6 |
| 140° | 2880.5 | 2884.3 | 2826.7 | 2796.0 | 2772.9 | 2730.7 | 2703.8 | 2657.7 | 2638.5 | 2604.0 | 2550.2 |
| 142.5° | 2753.7 | 2738.4 | 2692.3 | 2657.7 | 2634.7 | 2604.0 | 2588.6 | 2542.5 | 2511.8 | 2481.1 | 2461.9 |
| 145° | 2604.0 | 2600.1 | 2546.3 | 2523.3 | 2504.1 | 2492.6 | 2465.7 | 2431.1 | 2415.8 | 2388.9 | 2388.9 |
| 147.5° | 2477.2 | 2458.0 | 2427.3 | 2400.4 | 2377.4 | 2365.8 | 2365.8 | 2304.4 | 2315.9 | 2312.1 | 2277.5 |
| 150° | 2342.8 | 2339.0 | 2296.7 | 2285.2 | 2266.0 | 2273.7 | 2266.0 | 2239.1 | 2239.1 | 2223.7 | 2200.7 |
| 152.5° | 2235.3 | 2235.3 | 2200.7 | 2193.0 | 2185.3 | 2181.5 | 2166.1 | 2154.6 | 2154.6 | 2150.8 | 2123.9 |
| 155° | 2146.9 | 2146.9 | 2120.0 | 2116.2 | 2104.7 | 2100.8 | 2093.2 | 2081.6 | 2073.9 | 2066.3 | 2043.2 |
| 157.5° | 2073.9 | 2070.1 | 2039.4 | 2043.2 | 2031.7 | 2031.7 | 2027.9 | 2004.8 | 2012.5 | 2008.7 | 1993.3 |
| 160° | 2004.8 | 2001.0 | 1970.2 | 1981.8 | 1974.1 | 1974.1 | 1974.1 | 1958.7 | 1951.0 | 1951.0 | 1916.5 |
| 162.5° | 1943.4 | 1951.0 | 1920.3 | 1916.5 | 1920.3 | 1920.3 | 1905.0 | 1893.4 | 1905.0 | 1916.5 | 1881.9 |
| 165° | 1889.6 | 1881.9 | 1870.4 | 1866.6 | 1858.9 | 1851.2 | 1858.9 | 1851.2 | 1843.5 | 1858.9 | 1847.3 |
| 167.5° | 1835.8 | 1843.5 | 1820.5 | 1812.8 | 1812.8 | 1828.1 | 1816.6 | 1801.3 | 1808.9 | 1805.1 | 1782.1 |
| 170° | 1789.7 | 1797.4 | 1766.7 | 1766.7 | 1766.7 | 1766.7 | 1755.2 | 1743.7 | 1762.9 | 1770.5 | 1743.7 |
| 172.5° | 1743.7 | 1755.2 | 1728.3 | 1724.4 | 1720.6 | 1728.3 | 1720.6 | 1709.1 | 1732.1 | 1720.6 | 1709.1 |
| 175° | 1693.7 | 1712.9 | 1686.0 | 1682.2 | 1689.9 | 1689.9 | 1682.2 | 1674.5 | 1689.9 | 1682.2 | 1674.5 |
| 177.5° | 1670.7 | 1670.7 | 1643.8 | 1647.6 | 1647.6 | 1643.8 | 1655.3 | 1651.5 | 1655.3 | 1655.3 | 1670.7 |
| 180° | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 |



TEST NUMBER: P508442

CATALOG NUMBER: ASYX-X-S2-X-U-W-L40-1-UNV-X-X-X-STD

CANDELA DISTRIBUTION (continued):

| | 45° | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 88.3 | 103.7 | 111.4 | 61.5 | 61.5 | 69.1 | 65.3 | 57.6 | 49.9 | 46.1 | 46.1 |
| 95° | 664.4 | 629.9 | 649.1 | 583.8 | 507.0 | 445.5 | 441.7 | 445.5 | 307.3 | 230.4 | 226.6 |
| 97.5° | 1428.7 | 1413.4 | 1294.3 | 1109.9 | 1056.2 | 1060.0 | 994.7 | 825.7 | 691.3 | 591.5 | 510.8 |
| 100° | 1858.9 | 1808.9 | 1755.2 | 1793.6 | 1686.0 | 1601.5 | 1482.5 | 1332.7 | 1175.2 | 1040.8 | 856.5 |
| 102.5° | 2650.0 | 2573.2 | 2377.4 | 2162.3 | 1947.2 | 1870.4 | 1782.1 | 1613.1 | 1447.9 | 1290.5 | 1102.3 |
| 105° | 3372.1 | 3241.5 | 2911.2 | 2604.0 | 2312.1 | 2223.7 | 2108.5 | 1920.3 | 1728.3 | 1570.8 | 1363.4 |
| 107.5° | 3544.9 | 3448.9 | 3264.5 | 3057.2 | 2803.7 | 2657.7 | 2550.2 | 2346.6 | 2166.1 | 1951.0 | 1712.9 |
| 110° | 3560.3 | 3464.3 | 3349.0 | 3206.9 | 3084.0 | 2999.5 | 2930.4 | 2776.8 | 2646.2 | 2458.0 | 2216.1 |
| 112.5° | 3518.0 | 3429.7 | 3345.2 | 3264.5 | 3168.5 | 3118.6 | 3057.2 | 3003.4 | 2926.6 | 2803.7 | 2577.1 |
| 115° | 3448.9 | 3372.1 | 3295.3 | 3226.1 | 3180.1 | 3157.0 | 3126.3 | 3084.0 | 3041.8 | 2949.6 | 2746.1 |
| 117.5° | 3383.6 | 3295.3 | 3226.1 | 3203.1 | 3160.8 | 3126.3 | 3122.4 | 3114.8 | 3087.9 | 3041.8 | 2845.9 |
| 120° | 3318.3 | 3249.2 | 3180.1 | 3130.1 | 3114.8 | 3110.9 | 3110.9 | 3087.9 | 3095.6 | 3057.2 | 2861.3 |
| 122.5° | 3214.6 | 3160.8 | 3103.2 | 3080.2 | 3014.9 | 3030.3 | 3037.9 | 3022.6 | 3053.3 | 3026.4 | 2842.1 |
| 125° | 3153.2 | 3099.4 | 3026.4 | 2991.9 | 2980.3 | 2965.0 | 2980.3 | 2953.5 | 2968.8 | 2949.6 | 2807.5 |
| 127.5° | 3049.5 | 2980.3 | 2941.9 | 2915.0 | 2907.4 | 2853.6 | 2880.5 | 2884.3 | 2888.2 | 2857.4 | 2730.7 |
| 130° | 2938.1 | 2899.7 | 2811.4 | 2822.9 | 2822.9 | 2803.7 | 2807.5 | 2792.1 | 2784.5 | 2757.6 | 2611.6 |
| 132.5° | 2857.4 | 2807.5 | 2749.9 | 2734.5 | 2719.2 | 2715.3 | 2715.3 | 2688.4 | 2688.4 | 2653.9 | 2557.9 |
| 135° | 2715.3 | 2680.8 | 2657.7 | 2642.4 | 2638.5 | 2623.2 | 2623.2 | 2596.3 | 2592.4 | 2561.7 | 2465.7 |
| 137.5° | 2615.5 | 2580.9 | 2561.7 | 2550.2 | 2538.7 | 2511.8 | 2527.1 | 2504.1 | 2481.1 | 2473.4 | 2381.2 |
| 140° | 2515.6 | 2488.7 | 2473.4 | 2454.2 | 2450.3 | 2435.0 | 2435.0 | 2408.1 | 2400.4 | 2365.8 | 2273.7 |
| 142.5° | 2431.1 | 2415.8 | 2385.0 | 2377.4 | 2350.5 | 2354.3 | 2335.1 | 2339.0 | 2308.2 | 2269.8 | 2196.8 |
| 145° | 2315.9 | 2319.7 | 2304.4 | 2289.0 | 2285.2 | 2262.1 | 2266.0 | 2242.9 | 2223.7 | 2196.8 | 2139.2 |
| 147.5° | 2254.5 | 2254.5 | 2231.4 | 2212.2 | 2196.8 | 2193.0 | 2173.8 | 2177.6 | 2146.9 | 2108.5 | 2070.1 |
| 150° | 2173.8 | 2166.1 | 2143.1 | 2131.6 | 2120.0 | 2120.0 | 2100.8 | 2089.3 | 2066.3 | 2054.7 | 2004.8 |
| 152.5° | 2116.2 | 2097.0 | 2085.5 | 2062.4 | 2062.4 | 2043.2 | 2027.9 | 2020.2 | 2001.0 | 1977.9 | 1939.5 |
| 155° | 2035.5 | 2027.9 | 2012.5 | 2008.7 | 1993.3 | 1977.9 | 1951.0 | 1947.2 | 1935.7 | 1912.6 | 1878.1 |
| 157.5° | 1970.2 | 1981.8 | 1958.7 | 1947.2 | 1924.2 | 1920.3 | 1893.4 | 1897.3 | 1874.2 | 1858.9 | 1828.1 |
| 160° | 1939.5 | 1920.3 | 1897.3 | 1893.4 | 1885.8 | 1855.0 | 1851.2 | 1839.7 | 1824.3 | 1812.8 | 1774.4 |
| 162.5° | 1870.4 | 1866.6 | 1855.0 | 1847.3 | 1820.5 | 1820.5 | 1774.4 | 1793.6 | 1782.1 | 1770.5 | 1751.3 |
| 165° | 1832.0 | 1835.8 | 1808.9 | 1801.3 | 1793.6 | 1778.2 | 1766.7 | 1755.2 | 1743.7 | 1736.0 | 1716.8 |
| 167.5° | 1782.1 | 1774.4 | 1766.7 | 1751.3 | 1755.2 | 1743.7 | 1732.1 | 1724.4 | 1716.8 | 1709.1 | 1693.7 |
| 170° | 1739.8 | 1736.0 | 1728.3 | 1716.8 | 1720.6 | 1709.1 | 1709.1 | 1693.7 | 1689.9 | 1686.0 | 1666.8 |
| 172.5° | 1705.2 | 1705.2 | 1697.6 | 1697.6 | 1693.7 | 1682.2 | 1674.5 | 1666.8 | 1666.8 | 1659.2 | 1655.3 |
| 175° | 1670.7 | 1674.5 | 1670.7 | 1666.8 | 1666.8 | 1659.2 | 1659.2 | 1663.0 | 1655.3 | 1655.3 | 1643.8 |
| 177.5° | 1643.8 | 1643.8 | 1643.8 | 1643.8 | 1643.8 | 1643.8 | 1643.8 | 1640.0 | 1643.8 | 1640.0 | 1628.4 |
| 180° | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 |



TEST NUMBER: P508442

CATALOG NUMBER: ASYX-X-S2-X-U-W-L40-1-UNV-X-X-X-STD

CANDELA DISTRIBUTION (continued):

| | 95° | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 49.9 | 53.8 | 57.6 | 61.5 | 73.0 | 69.1 | 80.7 | 84.5 | 92.2 | 107.5 | 111.4 |
| 95° | 203.6 | 203.6 | 199.7 | 199.7 | 192.0 | 192.0 | 188.2 | 184.4 | 203.6 | 226.6 | 257.3 |
| 97.5° | 418.6 | 357.2 | 326.5 | 314.9 | 311.1 | 307.3 | 299.6 | 288.0 | 295.7 | 314.9 | 353.3 |
| 100° | 706.7 | 583.8 | 483.9 | 426.3 | 414.8 | 395.6 | 387.9 | 384.1 | 384.1 | 422.5 | 483.9 |
| 102.5° | 914.1 | 733.6 | 603.0 | 518.5 | 495.4 | 476.2 | 464.7 | 464.7 | 472.4 | 518.5 | 587.6 |
| 105° | 1156.0 | 925.6 | 725.9 | 614.5 | 595.3 | 568.4 | 549.2 | 553.1 | 560.7 | 603.0 | 664.4 |
| 107.5° | 1447.9 | 1171.4 | 933.3 | 760.4 | 718.2 | 679.8 | 649.1 | 649.1 | 652.9 | 679.8 | 725.9 |
| 110° | 1885.8 | 1528.6 | 1171.4 | 914.1 | 844.9 | 802.7 | 729.7 | 729.7 | 725.9 | 745.1 | 775.8 |
| 112.5° | 2219.9 | 1805.1 | 1398.0 | 1067.7 | 971.7 | 902.6 | 825.7 | 802.7 | 802.7 | 806.5 | 825.7 |
| 115° | 2419.6 | 1989.5 | 1555.5 | 1209.8 | 1083.1 | 998.6 | 902.6 | 875.7 | 864.1 | 871.8 | 864.1 |
| 117.5° | 2534.8 | 2100.8 | 1689.9 | 1313.5 | 1194.4 | 1098.4 | 979.4 | 944.8 | 925.6 | 941.0 | 937.1 |
| 120° | 2592.4 | 2200.7 | 1797.4 | 1421.0 | 1298.1 | 1186.8 | 1060.0 | 1025.5 | 1010.1 | 1010.1 | 1013.9 |
| 122.5° | 2600.1 | 2254.5 | 1858.9 | 1517.1 | 1394.2 | 1286.6 | 1156.0 | 1106.1 | 1090.7 | 1094.6 | 1094.6 |
| 125° | 2573.2 | 2246.8 | 1916.5 | 1593.9 | 1474.8 | 1367.3 | 1232.8 | 1190.6 | 1156.0 | 1171.4 | 1175.2 |
| 127.5° | 2531.0 | 2227.6 | 1951.0 | 1655.3 | 1547.8 | 1451.8 | 1328.9 | 1278.9 | 1248.2 | 1255.9 | 1252.0 |
| 130° | 2469.5 | 2204.5 | 1981.8 | 1709.1 | 1616.9 | 1520.9 | 1413.4 | 1367.3 | 1325.0 | 1328.9 | 1332.7 |
| 132.5° | 2408.1 | 2196.8 | 1997.1 | 1751.3 | 1674.5 | 1593.9 | 1486.3 | 1440.2 | 1401.8 | 1405.7 | 1405.7 |
| 135° | 2342.8 | 2177.6 | 1977.9 | 1778.2 | 1739.8 | 1655.3 | 1567.0 | 1517.1 | 1486.3 | 1486.3 | 1478.6 |
| 137.5° | 2273.7 | 2131.6 | 1993.3 | 1832.0 | 1778.2 | 1709.1 | 1620.8 | 1582.3 | 1551.6 | 1547.8 | 1543.9 |
| 140° | 2212.2 | 2081.6 | 1974.1 | 1843.5 | 1805.1 | 1751.3 | 1678.4 | 1647.6 | 1605.4 | 1597.7 | 1620.8 |
| 142.5° | 2150.8 | 2058.6 | 1993.3 | 1870.4 | 1832.0 | 1785.9 | 1732.1 | 1689.9 | 1659.2 | 1651.5 | 1647.6 |
| 145° | 2089.3 | 2035.5 | 1962.6 | 1862.7 | 1847.3 | 1801.3 | 1743.7 | 1732.1 | 1697.6 | 1689.9 | 1689.9 |
| 147.5° | 2027.9 | 1981.8 | 1928.0 | 1858.9 | 1858.9 | 1820.5 | 1793.6 | 1759.0 | 1732.1 | 1716.8 | 1716.8 |
| 150° | 1974.1 | 1935.7 | 1908.8 | 1855.0 | 1851.2 | 1820.5 | 1797.4 | 1782.1 | 1751.3 | 1743.7 | 1739.8 |
| 152.5° | 1924.2 | 1889.6 | 1866.6 | 1832.0 | 1828.1 | 1785.9 | 1793.6 | 1778.2 | 1747.5 | 1739.8 | 1739.8 |
| 155° | 1862.7 | 1858.9 | 1832.0 | 1797.4 | 1812.8 | 1789.7 | 1770.5 | 1789.7 | 1743.7 | 1751.3 | 1751.3 |
| 157.5° | 1820.5 | 1816.6 | 1812.8 | 1778.2 | 1782.1 | 1770.5 | 1759.0 | 1774.4 | 1736.0 | 1739.8 | 1739.8 |
| 160° | 1774.4 | 1766.7 | 1766.7 | 1736.0 | 1759.0 | 1736.0 | 1739.8 | 1747.5 | 1724.4 | 1728.3 | 1739.8 |
| 162.5° | 1751.3 | 1736.0 | 1736.0 | 1724.4 | 1732.1 | 1724.4 | 1705.2 | 1732.1 | 1728.3 | 1720.6 | 1724.4 |
| 165° | 1712.9 | 1709.1 | 1716.8 | 1693.7 | 1712.9 | 1689.9 | 1697.6 | 1709.1 | 1701.4 | 1705.2 | 1709.1 |
| 167.5° | 1689.9 | 1686.0 | 1689.9 | 1678.4 | 1689.9 | 1682.2 | 1678.4 | 1693.7 | 1686.0 | 1689.9 | 1693.7 |
| 170° | 1670.7 | 1670.7 | 1674.5 | 1663.0 | 1674.5 | 1663.0 | 1674.5 | 1674.5 | 1670.7 | 1670.7 | 1678.4 |
| 172.5° | 1663.0 | 1651.5 | 1663.0 | 1643.8 | 1663.0 | 1640.0 | 1647.6 | 1659.2 | 1655.3 | 1651.5 | 1651.5 |
| 175° | 1647.6 | 1643.8 | 1655.3 | 1636.1 | 1647.6 | 1636.1 | 1636.1 | 1647.6 | 1643.8 | 1640.0 | 1655.3 |
| 177.5° | 1647.6 | 1636.1 | 1647.6 | 1628.4 | 1640.0 | 1632.3 | 1632.3 | 1643.8 | 1636.1 | 1636.1 | 1647.6 |
| 180° | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 |



TEST NUMBER: P508442

CATALOG NUMBER: ASYX-X-S2-X-U-W-L40-1-UNV-X-X-X-STD

CANDELA DISTRIBUTION (continued):

| | 145° | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 111.4 | 130.6 | 134.4 | 145.9 | 142.1 | 119.1 | 103.7 | 84.5 | 73.0 |
| 95° | 291.9 | 322.6 | 353.3 | 349.5 | 361.0 | 338.0 | 314.9 | 303.4 | 288.0 |
| 97.5° | 391.7 | 441.7 | 472.4 | 472.4 | 476.2 | 460.9 | 453.2 | 460.9 | 441.7 |
| 100° | 553.1 | 587.6 | 599.1 | 595.3 | 583.8 | 556.9 | 541.5 | 533.8 | 522.3 |
| 102.5° | 649.1 | 687.5 | 699.0 | 691.3 | 683.6 | 672.1 | 656.7 | 649.1 | 645.2 |
| 105° | 714.4 | 748.9 | 764.3 | 760.4 | 756.6 | 737.4 | 706.7 | 718.2 | 714.4 |
| 107.5° | 775.8 | 798.9 | 814.2 | 802.7 | 798.9 | 787.3 | 768.1 | 779.7 | 764.3 |
| 110° | 814.2 | 833.4 | 837.3 | 837.3 | 829.6 | 818.1 | 802.7 | 806.5 | 795.0 |
| 112.5° | 844.9 | 856.5 | 856.5 | 856.5 | 848.8 | 833.4 | 825.7 | 818.1 | 818.1 |
| 115° | 879.5 | 871.8 | 875.7 | 875.7 | 868.0 | 844.9 | 833.4 | 825.7 | 818.1 |
| 117.5° | 941.0 | 929.4 | 917.9 | 917.9 | 898.7 | 883.3 | 871.8 | 860.3 | 848.8 |
| 120° | 998.6 | 990.9 | 983.2 | 971.7 | 960.2 | 941.0 | 921.8 | 906.4 | 898.7 |
| 122.5° | 1075.4 | 1056.2 | 1044.7 | 1052.3 | 1029.3 | 1010.1 | 987.0 | 971.7 | 952.5 |
| 125° | 1159.9 | 1144.5 | 1125.3 | 1117.6 | 1098.4 | 1083.1 | 1063.9 | 1048.5 | 1025.5 |
| 127.5° | 1232.8 | 1209.8 | 1202.1 | 1198.3 | 1175.2 | 1156.0 | 1125.3 | 1113.8 | 1113.8 |
| 130° | 1317.3 | 1290.5 | 1294.3 | 1275.1 | 1255.9 | 1225.2 | 1194.4 | 1194.4 | 1190.6 |
| 132.5° | 1398.0 | 1367.3 | 1363.4 | 1355.7 | 1332.7 | 1309.7 | 1290.5 | 1286.6 | 1271.3 |
| 135° | 1463.3 | 1440.2 | 1436.4 | 1428.7 | 1409.5 | 1386.5 | 1355.7 | 1363.4 | 1332.7 |
| 137.5° | 1520.9 | 1509.4 | 1505.5 | 1490.2 | 1471.0 | 1467.1 | 1432.6 | 1428.7 | 1409.5 |
| 140° | 1586.2 | 1563.1 | 1578.5 | 1559.3 | 1536.3 | 1528.6 | 1482.5 | 1490.2 | 1490.2 |
| 142.5° | 1632.3 | 1620.8 | 1616.9 | 1609.2 | 1593.9 | 1578.5 | 1567.0 | 1551.6 | 1559.3 |
| 145° | 1678.4 | 1670.7 | 1663.0 | 1663.0 | 1640.0 | 1632.3 | 1609.2 | 1609.2 | 1597.7 |
| 147.5° | 1716.8 | 1701.4 | 1701.4 | 1693.7 | 1682.2 | 1674.5 | 1651.5 | 1663.0 | 1643.8 |
| 150° | 1716.8 | 1724.4 | 1716.8 | 1716.8 | 1720.6 | 1716.8 | 1697.6 | 1689.9 | 1693.7 |
| 152.5° | 1747.5 | 1736.0 | 1728.3 | 1743.7 | 1724.4 | 1736.0 | 1709.1 | 1716.8 | 1709.1 |
| 155° | 1732.1 | 1739.8 | 1743.7 | 1736.0 | 1736.0 | 1736.0 | 1724.4 | 1743.7 | 1724.4 |
| 157.5° | 1747.5 | 1739.8 | 1743.7 | 1739.8 | 1732.1 | 1743.7 | 1732.1 | 1747.5 | 1736.0 |
| 160° | 1739.8 | 1732.1 | 1739.8 | 1736.0 | 1728.3 | 1743.7 | 1743.7 | 1755.2 | 1739.8 |
| 162.5° | 1712.9 | 1720.6 | 1739.8 | 1728.3 | 1728.3 | 1755.2 | 1712.9 | 1751.3 | 1728.3 |
| 165° | 1705.2 | 1709.1 | 1716.8 | 1724.4 | 1709.1 | 1720.6 | 1720.6 | 1724.4 | 1712.9 |
| 167.5° | 1697.6 | 1682.2 | 1697.6 | 1697.6 | 1701.4 | 1701.4 | 1701.4 | 1709.1 | 1693.7 |
| 170° | 1682.2 | 1651.5 | 1682.2 | 1682.2 | 1674.5 | 1674.5 | 1670.7 | 1693.7 | 1674.5 |
| 172.5° | 1655.3 | 1647.6 | 1659.2 | 1659.2 | 1666.8 | 1663.0 | 1663.0 | 1666.8 | 1655.3 |
| 175° | 1640.0 | 1643.8 | 1659.2 | 1647.6 | 1643.8 | 1647.6 | 1636.1 | 1647.6 | 1636.1 |
| 177.5° | 1632.3 | 1632.3 | 1636.1 | 1640.0 | 1647.6 | 1640.0 | 1628.4 | 1640.0 | 1628.4 |
| 180° | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 | 1636.1 |

(END OF REPORT)