

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: P508440

Luminaire Tested: **ASYX-X-S2-X-U-W-L30-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508440
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-L30-1-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

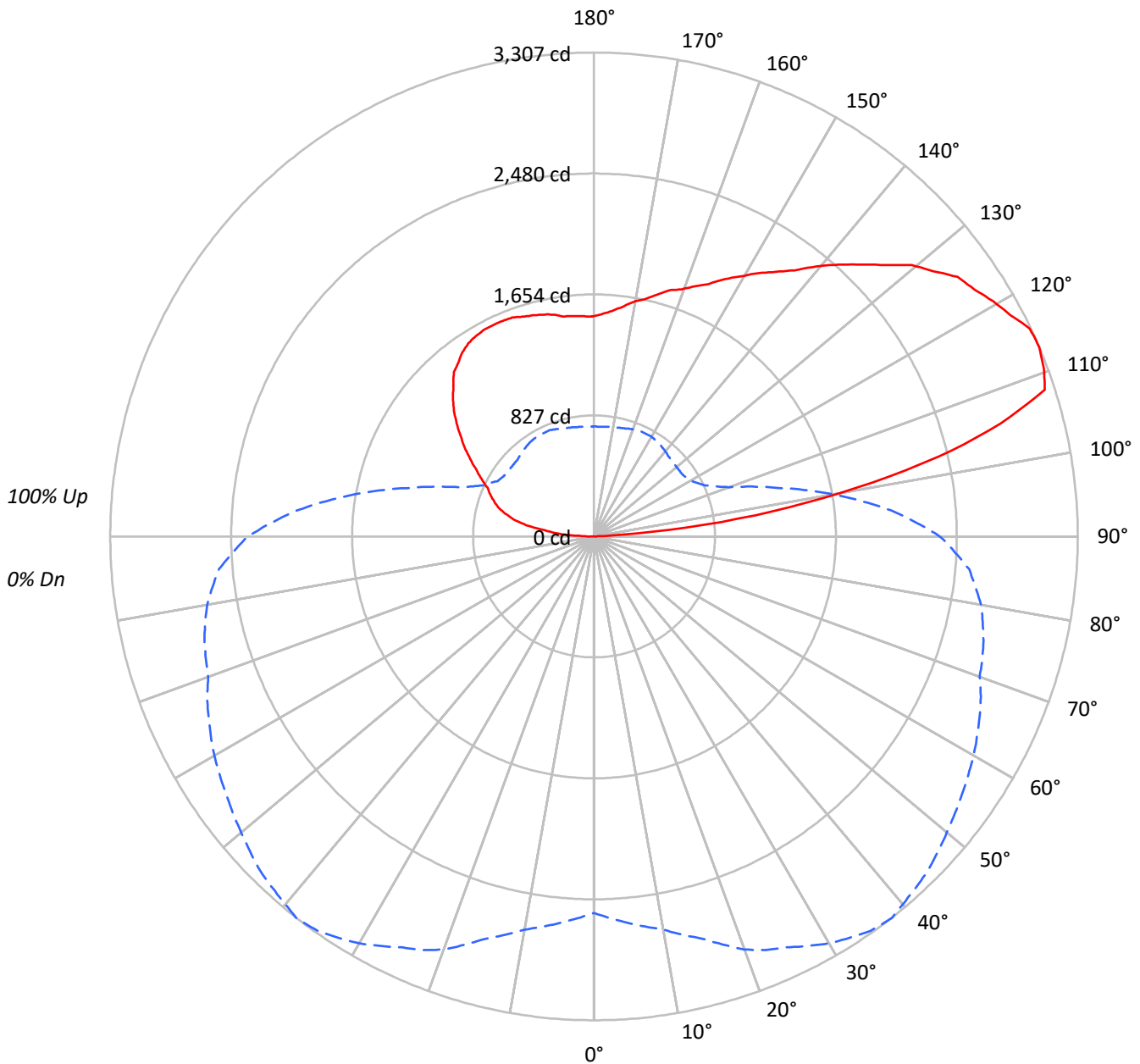
Lumens per Lamp: N/A
Luminaire Lumens: 9942.9 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
N/A
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
CIE Type: Indirect

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: P508440
CATALOG NUMBER: ASYX-X-S2-X-U-W-L30-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot



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



TEST NUMBER: P508440

CATALOG NUMBER: ASYX-X-S2-X-U-W-L30-1-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° | 46165 | 51377 | 65308 |
| 100° | 125883 | 97481 | 59445 |
| 105° | 126105 | 104113 | 54548 |
| 110° | 140483 | 128052 | 45936 |
| 115° | 148172 | 128418 | 38255 |
| 120° | 138902 | 113094 | 35521 |
| 125° | 121350 | 96737 | 35333 |
| 130° | 104386 | 80299 | 36606 |
| 135° | 88558 | 68915 | 37249 |
| 140° | 74314 | 58659 | 38444 |
| 145° | 62824 | 51613 | 38546 |
| 150° | 53465 | 45752 | 38652 |
| 155° | 46815 | 40953 | 37604 |
| 160° | 42165 | 37317 | 36591 |
| 165° | 38662 | 35125 | 35047 |
| 170° | 35916 | 33450 | 33605 |
| 175° | 33601 | 32612 | 32458 |



TEST NUMBER: P508440

CATALOG NUMBER: ASYX-X-S2-X-U-W-L30-1-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° | 407.0 | 4.1 |
| 100°-110° | 1473.0 | 14.8 |
| 110°-120° | 1985.7 | 20.0 |
| 120°-130° | 1889.9 | 19.0 |
| 130°-140° | 1574.6 | 15.8 |
| 140°-150° | 1192.9 | 12.0 |
| 150°-160° | 811.8 | 8.2 |
| 160°-170° | 461.2 | 4.6 |
| 170°-180° | 146.7 | 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° | 3865.7 | 38.9 |
| 90°-150° | 8523.1 | 85.7 |
| 90°-180° | 9943.0 | 100.0 |
| 0°-180° | 9942.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 90° | 0 | 0 | 0 | 0 | 0 | |
| 95° | 187 | 610 | 208 | 208 | 264 | 332 |
| 105° | 1516 | 3096 | 1252 | 554 | 656 | 1645 |
| 115° | 2909 | 3166 | 2521 | 800 | 751 | 2805 |
| 125° | 3233 | 2895 | 2577 | 1075 | 941 | 2886 |
| 135° | 2909 | 2493 | 2264 | 1364 | 1224 | 2254 |
| 145° | 2390 | 2126 | 1964 | 1551 | 1467 | 1512 |
| 155° | 1971 | 1869 | 1724 | 1608 | 1583 | 921 |
| 165° | 1735 | 1682 | 1576 | 1566 | 1572 | 495 |
| 175° | 1555 | 1534 | 1509 | 1506 | 1502 | 151 |
| 180° | 1502 | 1502 | 1502 | 1502 | 1502 | |



TEST NUMBER: P508440

CATALOG NUMBER: ASYX-X-S2-X-U-W-L30-1-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° | 28.2 | 28.2 | 28.2 | 31.7 | 35.3 | 38.8 | 38.8 | 49.4 | 63.5 | 67.0 | 77.6 |
| 95° | 186.9 | 215.1 | 320.9 | 370.2 | 373.7 | 384.3 | 384.3 | 486.6 | 606.4 | 634.7 | 662.9 |
| 97.5° | 500.7 | 535.9 | 648.8 | 736.9 | 863.8 | 899.1 | 941.4 | 1026.0 | 1156.5 | 1234.0 | 1272.8 |
| 100° | 1015.4 | 1022.5 | 1082.4 | 1163.5 | 1301.0 | 1378.6 | 1473.8 | 1706.5 | 1822.9 | 1822.9 | 1780.5 |
| 102.5° | 1286.9 | 1294.0 | 1346.9 | 1424.4 | 1586.6 | 1703.0 | 1812.3 | 2094.3 | 2330.6 | 2418.7 | 2454.0 |
| 105° | 1516.1 | 1540.8 | 1597.2 | 1706.5 | 1904.0 | 2034.4 | 2136.7 | 2457.5 | 2732.5 | 2884.1 | 3000.5 |
| 107.5° | 1808.8 | 1847.5 | 1942.7 | 2069.7 | 2305.9 | 2457.5 | 2588.0 | 2848.9 | 3088.6 | 3240.2 | 3236.7 |
| 110° | 2231.9 | 2253.0 | 2351.7 | 2517.4 | 2721.9 | 2841.8 | 2922.9 | 3106.3 | 3268.4 | 3282.6 | 3289.6 |
| 112.5° | 2573.9 | 2651.4 | 2729.0 | 2845.3 | 3004.0 | 3060.4 | 3099.2 | 3212.0 | 3293.1 | 3307.2 | 3282.6 |
| 115° | 2908.8 | 2937.0 | 2975.8 | 3053.4 | 3127.4 | 3183.8 | 3190.9 | 3250.8 | 3268.4 | 3300.2 | 3243.8 |
| 117.5° | 3116.8 | 3130.9 | 3134.5 | 3162.7 | 3201.5 | 3233.2 | 3226.1 | 3243.8 | 3264.9 | 3222.6 | 3194.4 |
| 120° | 3226.1 | 3240.2 | 3215.6 | 3226.1 | 3236.7 | 3243.8 | 3229.7 | 3236.7 | 3197.9 | 3166.2 | 3134.5 |
| 122.5° | 3268.4 | 3264.9 | 3240.2 | 3240.2 | 3226.1 | 3222.6 | 3194.4 | 3169.7 | 3141.5 | 3099.2 | 3060.4 |
| 125° | 3233.2 | 3247.3 | 3215.6 | 3190.9 | 3159.1 | 3212.0 | 3141.5 | 3116.8 | 3067.5 | 3053.4 | 2979.3 |
| 127.5° | 3187.4 | 3215.6 | 3162.7 | 3138.0 | 3106.3 | 3095.7 | 3053.4 | 3018.1 | 2982.9 | 2944.1 | 2894.7 |
| 130° | 3116.8 | 3127.4 | 3078.1 | 3053.4 | 3021.6 | 2989.9 | 2982.9 | 2905.3 | 2880.6 | 2855.9 | 2788.9 |
| 132.5° | 3046.3 | 3028.7 | 2979.3 | 2947.6 | 2908.8 | 2891.2 | 2873.6 | 2806.6 | 2771.3 | 2718.4 | 2683.2 |
| 135° | 2908.8 | 2912.3 | 2866.5 | 2831.2 | 2778.4 | 2778.4 | 2746.6 | 2697.3 | 2651.4 | 2605.6 | 2559.8 |
| 137.5° | 2778.4 | 2803.0 | 2736.0 | 2704.3 | 2676.1 | 2655.0 | 2612.6 | 2566.8 | 2517.4 | 2499.8 | 2464.6 |
| 140° | 2644.4 | 2647.9 | 2595.0 | 2566.8 | 2545.7 | 2506.9 | 2482.2 | 2439.9 | 2422.2 | 2390.5 | 2341.2 |
| 142.5° | 2528.0 | 2513.9 | 2471.6 | 2439.9 | 2418.7 | 2390.5 | 2376.4 | 2334.1 | 2305.9 | 2277.7 | 2260.1 |
| 145° | 2390.5 | 2387.0 | 2337.6 | 2316.5 | 2298.8 | 2288.3 | 2263.6 | 2231.9 | 2217.8 | 2193.1 | 2193.1 |
| 147.5° | 2274.2 | 2256.5 | 2228.3 | 2203.6 | 2182.5 | 2171.9 | 2171.9 | 2115.5 | 2126.1 | 2122.6 | 2090.8 |
| 150° | 2150.8 | 2147.2 | 2108.4 | 2097.9 | 2080.2 | 2087.3 | 2080.2 | 2055.6 | 2055.6 | 2041.5 | 2020.3 |
| 152.5° | 2052.0 | 2052.0 | 2020.3 | 2013.3 | 2006.2 | 2002.7 | 1988.6 | 1978.0 | 1978.0 | 1974.5 | 1949.8 |
| 155° | 1970.9 | 1970.9 | 1946.3 | 1942.7 | 1932.2 | 1928.6 | 1921.6 | 1911.0 | 1904.0 | 1896.9 | 1875.7 |
| 157.5° | 1904.0 | 1900.4 | 1872.2 | 1875.7 | 1865.2 | 1865.2 | 1861.6 | 1840.5 | 1847.5 | 1844.0 | 1829.9 |
| 160° | 1840.5 | 1837.0 | 1808.8 | 1819.3 | 1812.3 | 1812.3 | 1812.3 | 1798.2 | 1791.1 | 1791.1 | 1759.4 |
| 162.5° | 1784.1 | 1791.1 | 1762.9 | 1759.4 | 1762.9 | 1762.9 | 1748.8 | 1738.2 | 1748.8 | 1759.4 | 1727.7 |
| 165° | 1734.7 | 1727.7 | 1717.1 | 1713.6 | 1706.5 | 1699.5 | 1706.5 | 1699.5 | 1692.4 | 1706.5 | 1695.9 |
| 167.5° | 1685.3 | 1692.4 | 1671.2 | 1664.2 | 1664.2 | 1678.3 | 1667.7 | 1653.6 | 1660.7 | 1657.1 | 1636.0 |
| 170° | 1643.0 | 1650.1 | 1621.9 | 1621.9 | 1621.9 | 1621.9 | 1611.3 | 1600.7 | 1618.4 | 1625.4 | 1600.7 |
| 172.5° | 1600.7 | 1611.3 | 1586.6 | 1583.1 | 1579.6 | 1586.6 | 1579.6 | 1569.0 | 1590.2 | 1579.6 | 1569.0 |
| 175° | 1554.9 | 1572.5 | 1547.8 | 1544.3 | 1551.4 | 1551.4 | 1544.3 | 1537.3 | 1551.4 | 1544.3 | 1537.3 |
| 177.5° | 1533.7 | 1533.7 | 1509.1 | 1512.6 | 1512.6 | 1509.1 | 1519.6 | 1516.1 | 1519.6 | 1519.6 | 1533.7 |
| 180° | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 |



TEST NUMBER: P508440

CATALOG NUMBER: ASYX-X-S2-X-U-W-L30-1-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° | 81.1 | 95.2 | 102.2 | 56.4 | 56.4 | 63.5 | 59.9 | 52.9 | 45.8 | 42.3 | 42.3 |
| 95° | 610.0 | 578.2 | 595.9 | 535.9 | 465.4 | 409.0 | 405.5 | 409.0 | 282.1 | 211.6 | 208.0 |
| 97.5° | 1311.6 | 1297.5 | 1188.2 | 1019.0 | 969.6 | 973.1 | 913.2 | 758.1 | 634.7 | 543.0 | 468.9 |
| 100° | 1706.5 | 1660.7 | 1611.3 | 1646.6 | 1547.8 | 1470.3 | 1361.0 | 1223.5 | 1078.9 | 955.5 | 786.3 |
| 102.5° | 2432.8 | 2362.3 | 2182.5 | 1985.0 | 1787.6 | 1717.1 | 1636.0 | 1480.9 | 1329.2 | 1184.7 | 1011.9 |
| 105° | 3095.7 | 2975.8 | 2672.6 | 2390.5 | 2122.6 | 2041.5 | 1935.7 | 1762.9 | 1586.6 | 1442.1 | 1251.7 |
| 107.5° | 3254.3 | 3166.2 | 2997.0 | 2806.6 | 2573.9 | 2439.9 | 2341.2 | 2154.3 | 1988.6 | 1791.1 | 1572.5 |
| 110° | 3268.4 | 3180.3 | 3074.5 | 2944.1 | 2831.2 | 2753.7 | 2690.2 | 2549.2 | 2429.3 | 2256.5 | 2034.4 |
| 112.5° | 3229.7 | 3148.6 | 3071.0 | 2997.0 | 2908.8 | 2863.0 | 2806.6 | 2757.2 | 2686.7 | 2573.9 | 2365.8 |
| 115° | 3166.2 | 3095.7 | 3025.2 | 2961.7 | 2919.4 | 2898.2 | 2870.0 | 2831.2 | 2792.5 | 2707.8 | 2521.0 |
| 117.5° | 3106.3 | 3025.2 | 2961.7 | 2940.5 | 2901.8 | 2870.0 | 2866.5 | 2859.5 | 2834.8 | 2792.5 | 2612.6 |
| 120° | 3046.3 | 2982.9 | 2919.4 | 2873.6 | 2859.5 | 2855.9 | 2855.9 | 2834.8 | 2841.8 | 2806.6 | 2626.7 |
| 122.5° | 2951.1 | 2901.8 | 2848.9 | 2827.7 | 2767.8 | 2781.9 | 2788.9 | 2774.8 | 2803.0 | 2778.4 | 2609.1 |
| 125° | 2894.7 | 2845.3 | 2778.4 | 2746.6 | 2736.0 | 2721.9 | 2736.0 | 2711.4 | 2725.5 | 2707.8 | 2577.4 |
| 127.5° | 2799.5 | 2736.0 | 2700.8 | 2676.1 | 2669.1 | 2619.7 | 2644.4 | 2647.9 | 2651.4 | 2623.2 | 2506.9 |
| 130° | 2697.3 | 2662.0 | 2580.9 | 2591.5 | 2591.5 | 2573.9 | 2577.4 | 2563.3 | 2556.2 | 2531.5 | 2397.6 |
| 132.5° | 2623.2 | 2577.4 | 2524.5 | 2510.4 | 2496.3 | 2492.8 | 2492.8 | 2468.1 | 2468.1 | 2436.4 | 2348.2 |
| 135° | 2492.8 | 2461.0 | 2439.9 | 2425.8 | 2422.2 | 2408.1 | 2408.1 | 2383.5 | 2379.9 | 2351.7 | 2263.6 |
| 137.5° | 2401.1 | 2369.4 | 2351.7 | 2341.2 | 2330.6 | 2305.9 | 2320.0 | 2298.8 | 2277.7 | 2270.6 | 2186.0 |
| 140° | 2309.4 | 2284.7 | 2270.6 | 2253.0 | 2249.5 | 2235.4 | 2235.4 | 2210.7 | 2203.6 | 2171.9 | 2087.3 |
| 142.5° | 2231.9 | 2217.8 | 2189.5 | 2182.5 | 2157.8 | 2161.3 | 2143.7 | 2147.2 | 2119.0 | 2083.8 | 2016.8 |
| 145° | 2126.1 | 2129.6 | 2115.5 | 2101.4 | 2097.9 | 2076.7 | 2080.2 | 2059.1 | 2041.5 | 2016.8 | 1963.9 |
| 147.5° | 2069.7 | 2069.7 | 2048.5 | 2030.9 | 2016.8 | 2013.3 | 1995.6 | 1999.1 | 1970.9 | 1935.7 | 1900.4 |
| 150° | 1995.6 | 1988.6 | 1967.4 | 1956.8 | 1946.3 | 1946.3 | 1928.6 | 1918.1 | 1896.9 | 1886.3 | 1840.5 |
| 152.5° | 1942.7 | 1925.1 | 1914.5 | 1893.4 | 1893.4 | 1875.7 | 1861.6 | 1854.6 | 1837.0 | 1815.8 | 1780.5 |
| 155° | 1868.7 | 1861.6 | 1847.5 | 1844.0 | 1829.9 | 1815.8 | 1791.1 | 1787.6 | 1777.0 | 1755.9 | 1724.1 |
| 157.5° | 1808.8 | 1819.3 | 1798.2 | 1787.6 | 1766.4 | 1762.9 | 1738.2 | 1741.8 | 1720.6 | 1706.5 | 1678.3 |
| 160° | 1780.5 | 1762.9 | 1741.8 | 1738.2 | 1731.2 | 1703.0 | 1699.5 | 1688.9 | 1674.8 | 1664.2 | 1628.9 |
| 162.5° | 1717.1 | 1713.6 | 1703.0 | 1695.9 | 1671.2 | 1671.2 | 1628.9 | 1646.6 | 1636.0 | 1625.4 | 1607.8 |
| 165° | 1681.8 | 1685.3 | 1660.7 | 1653.6 | 1646.6 | 1632.5 | 1621.9 | 1611.3 | 1600.7 | 1593.7 | 1576.0 |
| 167.5° | 1636.0 | 1628.9 | 1621.9 | 1607.8 | 1611.3 | 1600.7 | 1590.2 | 1583.1 | 1576.0 | 1569.0 | 1554.9 |
| 170° | 1597.2 | 1593.7 | 1586.6 | 1576.0 | 1579.6 | 1569.0 | 1569.0 | 1554.9 | 1551.4 | 1547.8 | 1530.2 |
| 172.5° | 1565.5 | 1565.5 | 1558.4 | 1558.4 | 1554.9 | 1544.3 | 1537.3 | 1530.2 | 1530.2 | 1523.2 | 1519.6 |
| 175° | 1533.7 | 1537.3 | 1533.7 | 1530.2 | 1530.2 | 1523.2 | 1523.2 | 1526.7 | 1519.6 | 1519.6 | 1509.1 |
| 177.5° | 1509.1 | 1509.1 | 1509.1 | 1509.1 | 1509.1 | 1509.1 | 1509.1 | 1505.5 | 1509.1 | 1505.5 | 1495.0 |
| 180° | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 |



TEST NUMBER: P508440

CATALOG NUMBER: ASYX-X-S2-X-U-W-L30-1-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° | 45.8 | 49.4 | 52.9 | 56.4 | 67.0 | 63.5 | 74.0 | 77.6 | 84.6 | 98.7 | 102.2 |
| 95° | 186.9 | 186.9 | 183.3 | 183.3 | 176.3 | 176.3 | 172.8 | 169.2 | 186.9 | 208.0 | 236.2 |
| 97.5° | 384.3 | 327.9 | 299.7 | 289.1 | 285.6 | 282.1 | 275.0 | 264.4 | 271.5 | 289.1 | 324.4 |
| 100° | 648.8 | 535.9 | 444.3 | 391.4 | 380.8 | 363.2 | 356.1 | 352.6 | 352.6 | 387.8 | 444.3 |
| 102.5° | 839.1 | 673.4 | 553.6 | 476.0 | 454.8 | 437.2 | 426.6 | 426.6 | 433.7 | 476.0 | 539.5 |
| 105° | 1061.3 | 849.7 | 666.4 | 564.1 | 546.5 | 521.8 | 504.2 | 507.7 | 514.8 | 553.6 | 610.0 |
| 107.5° | 1329.2 | 1075.4 | 856.8 | 698.1 | 659.3 | 624.1 | 595.9 | 595.9 | 599.4 | 624.1 | 666.4 |
| 110° | 1731.2 | 1403.3 | 1075.4 | 839.1 | 775.7 | 736.9 | 669.9 | 669.9 | 666.4 | 684.0 | 712.2 |
| 112.5° | 2037.9 | 1657.1 | 1283.4 | 980.2 | 892.0 | 828.6 | 758.1 | 736.9 | 736.9 | 740.4 | 758.1 |
| 115° | 2221.3 | 1826.4 | 1428.0 | 1110.6 | 994.3 | 916.7 | 828.6 | 803.9 | 793.3 | 800.4 | 793.3 |
| 117.5° | 2327.1 | 1928.6 | 1551.4 | 1205.8 | 1096.5 | 1008.4 | 899.1 | 867.4 | 849.7 | 863.8 | 860.3 |
| 120° | 2379.9 | 2020.3 | 1650.1 | 1304.6 | 1191.7 | 1089.5 | 973.1 | 941.4 | 927.3 | 927.3 | 930.8 |
| 122.5° | 2387.0 | 2069.7 | 1706.5 | 1392.7 | 1279.9 | 1181.2 | 1061.3 | 1015.4 | 1001.3 | 1004.9 | 1004.9 |
| 125° | 2362.3 | 2062.6 | 1759.4 | 1463.2 | 1353.9 | 1255.2 | 1131.8 | 1093.0 | 1061.3 | 1075.4 | 1078.9 |
| 127.5° | 2323.5 | 2045.0 | 1791.1 | 1519.6 | 1420.9 | 1332.8 | 1219.9 | 1174.1 | 1145.9 | 1152.9 | 1149.4 |
| 130° | 2267.1 | 2023.8 | 1819.3 | 1569.0 | 1484.4 | 1396.2 | 1297.5 | 1255.2 | 1216.4 | 1219.9 | 1223.5 |
| 132.5° | 2210.7 | 2016.8 | 1833.4 | 1607.8 | 1537.3 | 1463.2 | 1364.5 | 1322.2 | 1286.9 | 1290.5 | 1290.5 |
| 135° | 2150.8 | 1999.1 | 1815.8 | 1632.5 | 1597.2 | 1519.6 | 1438.5 | 1392.7 | 1364.5 | 1364.5 | 1357.4 |
| 137.5° | 2087.3 | 1956.8 | 1829.9 | 1681.8 | 1632.5 | 1569.0 | 1487.9 | 1452.6 | 1424.4 | 1420.9 | 1417.4 |
| 140° | 2030.9 | 1911.0 | 1812.3 | 1692.4 | 1657.1 | 1607.8 | 1540.8 | 1512.6 | 1473.8 | 1466.7 | 1487.9 |
| 142.5° | 1974.5 | 1889.8 | 1829.9 | 1717.1 | 1681.8 | 1639.5 | 1590.2 | 1551.4 | 1523.2 | 1516.1 | 1512.6 |
| 145° | 1918.1 | 1868.7 | 1801.7 | 1710.0 | 1695.9 | 1653.6 | 1600.7 | 1590.2 | 1558.4 | 1551.4 | 1551.4 |
| 147.5° | 1861.6 | 1819.3 | 1770.0 | 1706.5 | 1706.5 | 1671.2 | 1646.6 | 1614.8 | 1590.2 | 1576.0 | 1576.0 |
| 150° | 1812.3 | 1777.0 | 1752.3 | 1703.0 | 1699.5 | 1671.2 | 1650.1 | 1636.0 | 1607.8 | 1600.7 | 1597.2 |
| 152.5° | 1766.4 | 1734.7 | 1713.6 | 1681.8 | 1678.3 | 1639.5 | 1646.6 | 1632.5 | 1604.3 | 1597.2 | 1597.2 |
| 155° | 1710.0 | 1706.5 | 1681.8 | 1650.1 | 1664.2 | 1643.0 | 1625.4 | 1643.0 | 1600.7 | 1607.8 | 1607.8 |
| 157.5° | 1671.2 | 1667.7 | 1664.2 | 1632.5 | 1636.0 | 1625.4 | 1614.8 | 1628.9 | 1593.7 | 1597.2 | 1597.2 |
| 160° | 1628.9 | 1621.9 | 1621.9 | 1593.7 | 1614.8 | 1593.7 | 1597.2 | 1604.3 | 1583.1 | 1586.6 | 1597.2 |
| 162.5° | 1607.8 | 1593.7 | 1593.7 | 1583.1 | 1590.2 | 1583.1 | 1565.5 | 1590.2 | 1586.6 | 1579.6 | 1583.1 |
| 165° | 1572.5 | 1569.0 | 1576.0 | 1554.9 | 1572.5 | 1551.4 | 1558.4 | 1569.0 | 1561.9 | 1565.5 | 1569.0 |
| 167.5° | 1551.4 | 1547.8 | 1551.4 | 1540.8 | 1551.4 | 1544.3 | 1540.8 | 1554.9 | 1547.8 | 1551.4 | 1554.9 |
| 170° | 1533.7 | 1533.7 | 1537.3 | 1526.7 | 1537.3 | 1526.7 | 1537.3 | 1537.3 | 1533.7 | 1533.7 | 1540.8 |
| 172.5° | 1526.7 | 1516.1 | 1526.7 | 1509.1 | 1526.7 | 1505.5 | 1512.6 | 1523.2 | 1519.6 | 1516.1 | 1516.1 |
| 175° | 1512.6 | 1509.1 | 1519.6 | 1502.0 | 1512.6 | 1502.0 | 1502.0 | 1512.6 | 1509.1 | 1505.5 | 1519.6 |
| 177.5° | 1512.6 | 1502.0 | 1512.6 | 1495.0 | 1505.5 | 1498.5 | 1498.5 | 1509.1 | 1502.0 | 1502.0 | 1512.6 |
| 180° | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 |



TEST NUMBER: P508440

CATALOG NUMBER: ASYX-X-S2-X-U-W-L30-1-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° | 102.2 | 119.9 | 123.4 | 134.0 | 130.5 | 109.3 | 95.2 | 77.6 | 67.0 |
| 95° | 268.0 | 296.2 | 324.4 | 320.9 | 331.4 | 310.3 | 289.1 | 278.5 | 264.4 |
| 97.5° | 359.6 | 405.5 | 433.7 | 433.7 | 437.2 | 423.1 | 416.0 | 423.1 | 405.5 |
| 100° | 507.7 | 539.5 | 550.0 | 546.5 | 535.9 | 511.2 | 497.1 | 490.1 | 479.5 |
| 102.5° | 595.9 | 631.1 | 641.7 | 634.7 | 627.6 | 617.0 | 602.9 | 595.9 | 592.3 |
| 105° | 655.8 | 687.5 | 701.6 | 698.1 | 694.6 | 677.0 | 648.8 | 659.3 | 655.8 |
| 107.5° | 712.2 | 733.4 | 747.5 | 736.9 | 733.4 | 722.8 | 705.2 | 715.7 | 701.6 |
| 110° | 747.5 | 765.1 | 768.6 | 768.6 | 761.6 | 751.0 | 736.9 | 740.4 | 729.8 |
| 112.5° | 775.7 | 786.3 | 786.3 | 786.3 | 779.2 | 765.1 | 758.1 | 751.0 | 751.0 |
| 115° | 807.4 | 800.4 | 803.9 | 803.9 | 796.8 | 775.7 | 765.1 | 758.1 | 751.0 |
| 117.5° | 863.8 | 853.3 | 842.7 | 842.7 | 825.0 | 810.9 | 800.4 | 789.8 | 779.2 |
| 120° | 916.7 | 909.7 | 902.6 | 892.0 | 881.5 | 863.8 | 846.2 | 832.1 | 825.0 |
| 122.5° | 987.2 | 969.6 | 959.0 | 966.1 | 944.9 | 927.3 | 906.1 | 892.0 | 874.4 |
| 125° | 1064.8 | 1050.7 | 1033.1 | 1026.0 | 1008.4 | 994.3 | 976.7 | 962.6 | 941.4 |
| 127.5° | 1131.8 | 1110.6 | 1103.6 | 1100.1 | 1078.9 | 1061.3 | 1033.1 | 1022.5 | 1022.5 |
| 130° | 1209.4 | 1184.7 | 1188.2 | 1170.6 | 1152.9 | 1124.7 | 1096.5 | 1096.5 | 1093.0 |
| 132.5° | 1283.4 | 1255.2 | 1251.7 | 1244.6 | 1223.5 | 1202.3 | 1184.7 | 1181.2 | 1167.1 |
| 135° | 1343.3 | 1322.2 | 1318.7 | 1311.6 | 1294.0 | 1272.8 | 1244.6 | 1251.7 | 1223.5 |
| 137.5° | 1396.2 | 1385.7 | 1382.1 | 1368.0 | 1350.4 | 1346.9 | 1315.1 | 1311.6 | 1294.0 |
| 140° | 1456.2 | 1435.0 | 1449.1 | 1431.5 | 1410.3 | 1403.3 | 1361.0 | 1368.0 | 1368.0 |
| 142.5° | 1498.5 | 1487.9 | 1484.4 | 1477.3 | 1463.2 | 1449.1 | 1438.5 | 1424.4 | 1431.5 |
| 145° | 1540.8 | 1533.7 | 1526.7 | 1526.7 | 1505.5 | 1498.5 | 1477.3 | 1477.3 | 1466.7 |
| 147.5° | 1576.0 | 1561.9 | 1561.9 | 1554.9 | 1544.3 | 1537.3 | 1516.1 | 1526.7 | 1509.1 |
| 150° | 1576.0 | 1583.1 | 1576.0 | 1576.0 | 1579.6 | 1576.0 | 1558.4 | 1551.4 | 1554.9 |
| 152.5° | 1604.3 | 1593.7 | 1586.6 | 1600.7 | 1583.1 | 1593.7 | 1569.0 | 1576.0 | 1569.0 |
| 155° | 1590.2 | 1597.2 | 1600.7 | 1593.7 | 1593.7 | 1593.7 | 1583.1 | 1600.7 | 1583.1 |
| 157.5° | 1604.3 | 1597.2 | 1600.7 | 1597.2 | 1590.2 | 1600.7 | 1590.2 | 1604.3 | 1593.7 |
| 160° | 1597.2 | 1590.2 | 1597.2 | 1593.7 | 1586.6 | 1600.7 | 1600.7 | 1611.3 | 1597.2 |
| 162.5° | 1572.5 | 1579.6 | 1597.2 | 1586.6 | 1586.6 | 1611.3 | 1572.5 | 1607.8 | 1586.6 |
| 165° | 1565.5 | 1569.0 | 1576.0 | 1583.1 | 1569.0 | 1579.6 | 1579.6 | 1583.1 | 1572.5 |
| 167.5° | 1558.4 | 1544.3 | 1558.4 | 1558.4 | 1561.9 | 1561.9 | 1561.9 | 1569.0 | 1554.9 |
| 170° | 1544.3 | 1516.1 | 1544.3 | 1544.3 | 1537.3 | 1537.3 | 1533.7 | 1554.9 | 1537.3 |
| 172.5° | 1519.6 | 1512.6 | 1523.2 | 1523.2 | 1530.2 | 1526.7 | 1526.7 | 1530.2 | 1519.6 |
| 175° | 1505.5 | 1509.1 | 1523.2 | 1512.6 | 1509.1 | 1512.6 | 1502.0 | 1512.6 | 1502.0 |
| 177.5° | 1498.5 | 1498.5 | 1502.0 | 1505.5 | 1512.6 | 1505.5 | 1495.0 | 1505.5 | 1495.0 |
| 180° | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 | 1502.0 |

(END OF REPORT)