

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: P508434

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

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-840-3)
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-HSS-L40-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(2) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR
OPTICS WITH HOUSE SIDE SHIELD
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

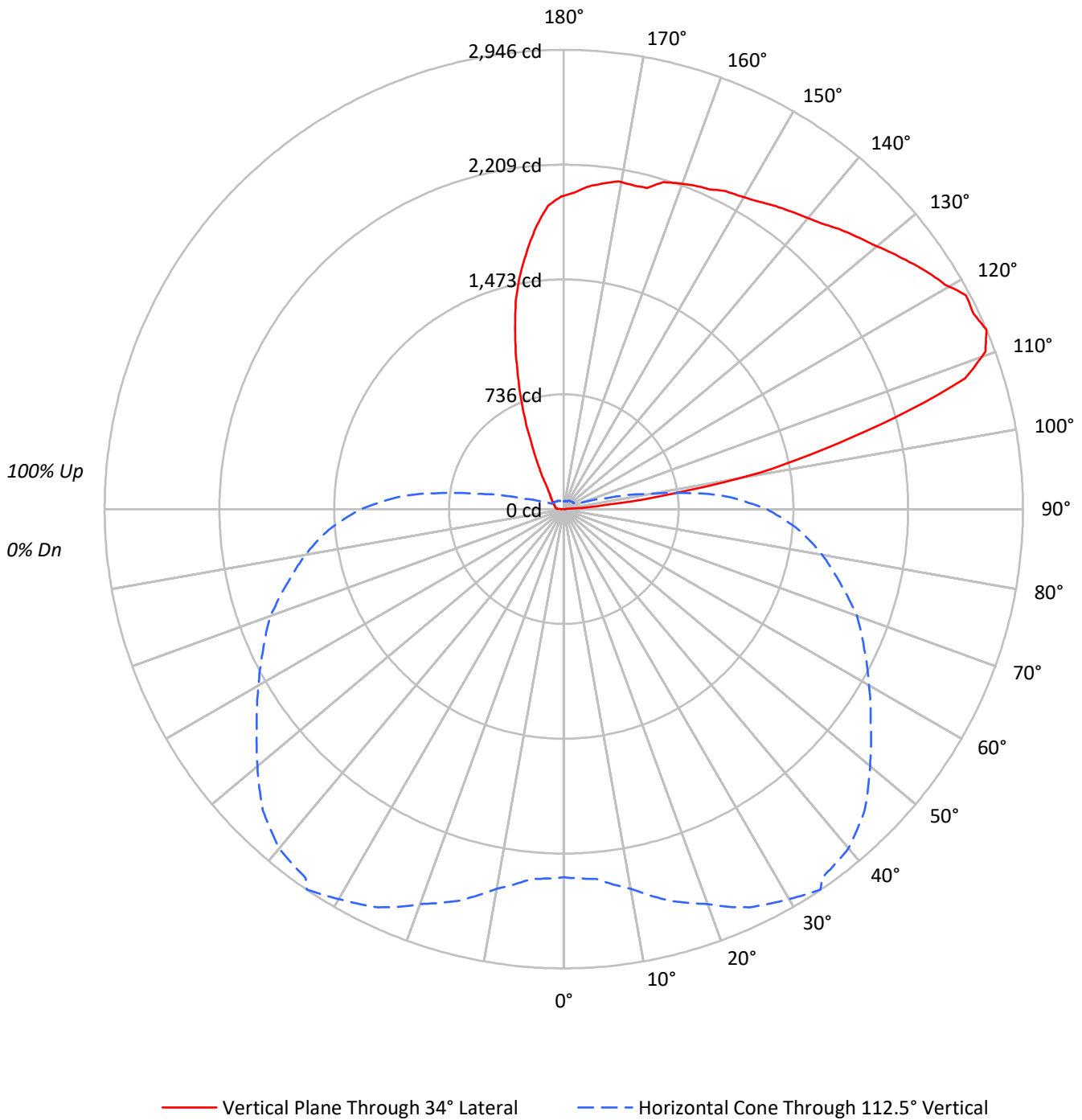
Lumens per Lamp: N/A
Luminaire Lumens: 6904.4 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
N/A
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
CIE Type: Indirect

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: P508434
CATALOG NUMBER: ASYX-X-S2-X-U-HSS-L40-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P508434

CATALOG NUMBER: ASYX-X-S2-X-U-HSS-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° | 939 | 11387 | 13289 |
| 100° | 38568 | 23332 | 7141 |
| 105° | 118195 | 37055 | 4475 |
| 110° | 135617 | 63579 | 3141 |
| 115° | 123645 | 74341 | 2741 |
| 120° | 105831 | 71933 | 2648 |
| 125° | 88941 | 69049 | 2740 |
| 130° | 80265 | 64699 | 2957 |
| 135° | 71092 | 60336 | 3157 |
| 140° | 65732 | 55154 | 3561 |
| 145° | 60156 | 51074 | 4037 |
| 150° | 56997 | 47258 | 5633 |
| 155° | 53552 | 44975 | 8575 |
| 160° | 51120 | 43817 | 13551 |
| 165° | 48963 | 43313 | 21313 |
| 170° | 47268 | 43237 | 31317 |
| 175° | 45398 | 43157 | 38511 |



TEST NUMBER: P508434

CATALOG NUMBER: ASYX-X-S2-X-U-HSS-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° | 134.3 | 1.9 |
| 100°-110° | 841.5 | 12.2 |
| 110°-120° | 1300.7 | 18.8 |
| 120°-130° | 1255.3 | 18.2 |
| 130°-140° | 1090.2 | 15.8 |
| 140°-150° | 898.6 | 13.0 |
| 150°-160° | 708.1 | 10.3 |
| 160°-170° | 491.2 | 7.1 |
| 170°-180° | 184.6 | 2.7 |
| 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° | 2276.5 | 33.0 |
| 90°-150° | 5520.5 | 80.0 |
| 90°-180° | 6904.0 | 100.0 |
| 0°-180° | 6904.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 90° | 0 | 0 | 0 | 0 | 0 | |
| 95° | 4 | 35 | 46 | 42 | 54 | 65 |
| 105° | 1421 | 2281 | 446 | 58 | 54 | 1394 |
| 115° | 2427 | 2769 | 1459 | 73 | 54 | 2361 |
| 125° | 2370 | 2700 | 1840 | 96 | 73 | 2167 |
| 135° | 2335 | 2477 | 1982 | 134 | 104 | 1816 |
| 145° | 2289 | 2316 | 1943 | 273 | 154 | 1451 |
| 155° | 2254 | 2224 | 1893 | 668 | 361 | 1039 |
| 165° | 2197 | 2135 | 1943 | 1321 | 956 | 624 |
| 175° | 2101 | 2062 | 1997 | 1867 | 1782 | 201 |
| 180° | 2005 | 2005 | 2005 | 2005 | 2005 | |



TEST NUMBER: P508434

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

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 34° | 35° | 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° | 0.0 | 0.0 | 3.8 | 3.8 | 11.5 | 7.7 | 7.7 | 11.5 | 15.4 | 19.2 | 7.7 |
| 95° | 3.8 | 3.8 | 7.7 | 99.9 | 299.6 | 330.3 | 314.9 | 303.4 | 265.0 | 230.4 | 57.6 |
| 97.5° | 80.7 | 96.0 | 153.6 | 410.9 | 833.4 | 960.2 | 1021.6 | 837.3 | 687.5 | 637.5 | 341.8 |
| 100° | 311.1 | 361.0 | 499.3 | 944.8 | 1409.5 | 1440.2 | 1428.7 | 1390.3 | 1278.9 | 1206.0 | 925.6 |
| 102.5° | 829.6 | 864.1 | 1056.2 | 1451.8 | 1705.2 | 1759.0 | 1759.0 | 1724.5 | 1712.9 | 1689.9 | 1601.6 |
| 105° | 1421.0 | 1459.4 | 1613.1 | 1816.6 | 1970.3 | 2027.9 | 2058.6 | 2135.4 | 2212.2 | 2223.7 | 2308.2 |
| 107.5° | 1816.6 | 1855.0 | 1974.1 | 2127.7 | 2327.4 | 2400.4 | 2488.7 | 2611.6 | 2707.7 | 2696.1 | 2676.9 |
| 110° | 2154.6 | 2196.9 | 2308.2 | 2461.9 | 2607.8 | 2696.1 | 2780.6 | 2834.4 | 2888.2 | 2834.4 | 2807.5 |
| 112.5° | 2362.0 | 2381.2 | 2473.4 | 2600.1 | 2696.1 | 2761.4 | 2819.0 | 2888.2 | 2945.8 | 2888.2 | 2842.1 |
| 115° | 2427.3 | 2438.8 | 2519.5 | 2607.8 | 2711.5 | 2773.0 | 2815.2 | 2888.2 | 2911.2 | 2899.7 | 2861.3 |
| 117.5° | 2423.5 | 2473.4 | 2542.5 | 2604.0 | 2703.8 | 2753.7 | 2796.0 | 2853.6 | 2922.7 | 2892.0 | 2853.6 |
| 120° | 2458.0 | 2461.9 | 2534.8 | 2607.8 | 2680.8 | 2723.0 | 2723.0 | 2807.5 | 2838.2 | 2830.6 | 2822.9 |
| 122.5° | 2446.5 | 2458.0 | 2519.5 | 2565.6 | 2642.4 | 2676.9 | 2711.5 | 2753.7 | 2788.3 | 2776.8 | 2776.8 |
| 125° | 2369.7 | 2442.7 | 2477.2 | 2531.0 | 2604.0 | 2627.0 | 2661.6 | 2696.1 | 2726.9 | 2715.3 | 2711.5 |
| 127.5° | 2415.8 | 2419.6 | 2450.3 | 2507.9 | 2554.0 | 2569.4 | 2607.8 | 2638.5 | 2669.3 | 2665.4 | 2673.1 |
| 130° | 2396.6 | 2385.0 | 2458.0 | 2481.1 | 2515.6 | 2542.5 | 2561.7 | 2588.6 | 2611.6 | 2611.6 | 2619.3 |
| 132.5° | 2381.2 | 2381.2 | 2404.2 | 2450.3 | 2481.1 | 2500.3 | 2531.0 | 2538.7 | 2565.6 | 2573.2 | 2557.9 |
| 135° | 2335.1 | 2365.8 | 2400.4 | 2415.8 | 2450.3 | 2465.7 | 2481.1 | 2496.4 | 2519.5 | 2527.1 | 2500.3 |
| 137.5° | 2289.0 | 2335.1 | 2381.2 | 2404.2 | 2431.1 | 2431.1 | 2431.1 | 2454.2 | 2465.7 | 2477.2 | 2450.3 |
| 140° | 2339.0 | 2335.1 | 2377.4 | 2373.5 | 2388.9 | 2385.0 | 2411.9 | 2415.8 | 2431.1 | 2423.5 | 2408.1 |
| 142.5° | 2327.4 | 2327.4 | 2339.0 | 2354.3 | 2350.5 | 2358.2 | 2377.4 | 2396.6 | 2396.6 | 2404.2 | 2377.4 |
| 145° | 2289.0 | 2300.6 | 2319.8 | 2335.1 | 2335.1 | 2331.3 | 2354.3 | 2358.2 | 2365.8 | 2362.0 | 2346.6 |
| 147.5° | 2304.4 | 2304.4 | 2304.4 | 2323.6 | 2323.6 | 2323.6 | 2327.4 | 2331.3 | 2331.3 | 2335.1 | 2323.6 |
| 150° | 2292.9 | 2296.7 | 2304.4 | 2296.7 | 2315.9 | 2285.2 | 2304.4 | 2304.4 | 2304.4 | 2308.2 | 2300.6 |
| 152.5° | 2216.1 | 2269.8 | 2289.0 | 2285.2 | 2269.8 | 2277.5 | 2281.3 | 2296.7 | 2289.0 | 2296.7 | 2273.7 |
| 155° | 2254.5 | 2250.6 | 2254.5 | 2258.3 | 2246.8 | 2254.5 | 2258.3 | 2258.3 | 2254.5 | 2258.3 | 2239.1 |
| 157.5° | 2242.9 | 2239.1 | 2258.3 | 2235.3 | 2246.8 | 2254.5 | 2239.1 | 2250.6 | 2239.1 | 2254.5 | 2246.8 |
| 160° | 2231.4 | 2223.7 | 2239.1 | 2223.7 | 2239.1 | 2219.9 | 2208.4 | 2227.6 | 2216.1 | 2242.9 | 2204.5 |
| 162.5° | 2216.1 | 2212.2 | 2227.6 | 2208.4 | 2193.0 | 2185.3 | 2196.9 | 2200.7 | 2193.0 | 2200.7 | 2181.5 |
| 165° | 2196.9 | 2196.9 | 2196.9 | 2177.6 | 2189.2 | 2189.2 | 2173.8 | 2177.6 | 2127.7 | 2181.5 | 2158.4 |
| 167.5° | 2181.5 | 2196.9 | 2177.6 | 2158.4 | 2181.5 | 2181.5 | 2154.6 | 2158.4 | 2123.9 | 2150.8 | 2139.2 |
| 170° | 2162.3 | 2146.9 | 2150.8 | 2150.8 | 2170.0 | 2135.4 | 2116.2 | 2150.8 | 2131.6 | 2150.8 | 2131.6 |
| 172.5° | 2116.2 | 2131.6 | 2131.6 | 2123.9 | 2112.4 | 2112.4 | 2108.5 | 2116.2 | 2104.7 | 2108.5 | 2097.0 |
| 175° | 2100.8 | 2100.8 | 2108.5 | 2120.0 | 2097.0 | 2093.2 | 2070.1 | 2089.3 | 2077.8 | 2085.5 | 2074.0 |
| 177.5° | 2043.2 | 2074.0 | 2070.1 | 2043.2 | 2058.6 | 2035.5 | 2047.1 | 2054.7 | 2031.7 | 2050.9 | 2031.7 |
| 180° | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 |



TEST NUMBER: P508434

CATALOG NUMBER: ASYX-X-S2-X-U-HSS-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° | 7.7 | 7.7 | 7.7 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 |
| 95° | 34.6 | 46.1 | 111.4 | 92.2 | 69.1 | 65.3 | 73.0 | 65.3 | 57.6 | 49.9 | 46.1 |
| 97.5° | 276.5 | 311.1 | 326.5 | 288.0 | 284.2 | 261.2 | 234.3 | 176.7 | 161.3 | 142.1 | 111.4 |
| 100° | 756.6 | 672.1 | 629.9 | 560.7 | 453.2 | 410.9 | 376.4 | 311.1 | 253.5 | 222.8 | 188.2 |
| 102.5° | 1447.9 | 1290.5 | 1086.9 | 871.8 | 710.5 | 649.1 | 579.9 | 483.9 | 407.1 | 338.0 | 280.4 |
| 105° | 2281.3 | 1981.8 | 1586.2 | 1298.1 | 1083.1 | 948.6 | 887.2 | 733.6 | 606.8 | 530.0 | 445.5 |
| 107.5° | 2557.9 | 2365.8 | 2120.0 | 1820.5 | 1567.0 | 1444.1 | 1309.7 | 1106.1 | 944.8 | 802.7 | 676.0 |
| 110° | 2673.1 | 2507.9 | 2323.6 | 2146.9 | 1974.1 | 1862.7 | 1770.5 | 1563.1 | 1363.4 | 1186.8 | 1010.1 |
| 112.5° | 2730.7 | 2565.6 | 2404.2 | 2262.1 | 2127.7 | 2066.3 | 2001.0 | 1835.8 | 1682.2 | 1513.2 | 1302.0 |
| 115° | 2769.1 | 2638.5 | 2496.4 | 2346.6 | 2242.9 | 2177.6 | 2120.0 | 1970.3 | 1828.2 | 1674.5 | 1459.4 |
| 117.5° | 2788.3 | 2657.7 | 2554.0 | 2431.1 | 2323.6 | 2269.8 | 2208.4 | 2074.0 | 1931.8 | 1789.7 | 1574.7 |
| 120° | 2765.3 | 2676.9 | 2592.4 | 2488.7 | 2385.0 | 2331.3 | 2281.3 | 2146.9 | 2016.3 | 1881.9 | 1670.7 |
| 122.5° | 2734.5 | 2684.6 | 2619.3 | 2515.6 | 2438.8 | 2392.7 | 2350.5 | 2216.1 | 2100.8 | 1947.2 | 1755.2 |
| 125° | 2700.0 | 2650.0 | 2580.9 | 2515.6 | 2454.2 | 2419.6 | 2388.9 | 2269.8 | 2150.8 | 2020.2 | 1839.7 |
| 127.5° | 2646.2 | 2600.1 | 2546.4 | 2492.6 | 2446.5 | 2411.9 | 2400.4 | 2296.7 | 2185.3 | 2070.1 | 1885.8 |
| 130° | 2588.6 | 2550.2 | 2504.1 | 2450.3 | 2419.6 | 2381.2 | 2385.0 | 2292.9 | 2204.5 | 2097.0 | 1931.8 |
| 132.5° | 2511.8 | 2484.9 | 2473.4 | 2415.8 | 2385.0 | 2365.8 | 2339.0 | 2277.5 | 2204.5 | 2120.0 | 1962.6 |
| 135° | 2477.2 | 2450.3 | 2431.1 | 2381.2 | 2335.1 | 2327.4 | 2289.0 | 2254.5 | 2193.0 | 2131.6 | 1981.8 |
| 137.5° | 2415.8 | 2400.4 | 2388.9 | 2335.1 | 2289.0 | 2289.0 | 2277.5 | 2231.4 | 2177.6 | 2093.2 | 1966.4 |
| 140° | 2388.9 | 2369.7 | 2339.0 | 2296.7 | 2269.8 | 2246.8 | 2235.3 | 2196.9 | 2131.6 | 2066.3 | 1962.6 |
| 142.5° | 2342.8 | 2327.4 | 2319.8 | 2281.3 | 2239.1 | 2216.1 | 2193.0 | 2150.8 | 2104.7 | 2058.6 | 1947.2 |
| 145° | 2315.9 | 2312.1 | 2304.4 | 2266.0 | 2200.7 | 2189.2 | 2181.5 | 2135.4 | 2093.2 | 2020.2 | 1943.4 |
| 147.5° | 2281.3 | 2285.2 | 2277.5 | 2231.4 | 2189.2 | 2162.3 | 2143.1 | 2100.8 | 2070.1 | 2008.7 | 1912.6 |
| 150° | 2258.3 | 2262.1 | 2254.5 | 2196.9 | 2150.8 | 2139.2 | 2131.6 | 2089.3 | 2031.7 | 1981.8 | 1901.1 |
| 152.5° | 2246.8 | 2235.3 | 2216.1 | 2193.0 | 2143.1 | 2116.2 | 2108.5 | 2062.4 | 2031.7 | 1970.3 | 1893.4 |
| 155° | 2223.7 | 2208.4 | 2196.9 | 2158.4 | 2127.7 | 2100.8 | 2081.6 | 2054.7 | 2020.2 | 1958.7 | 1893.4 |
| 157.5° | 2200.7 | 2185.3 | 2177.6 | 2170.0 | 2127.7 | 2089.3 | 2085.5 | 2054.7 | 2001.0 | 1954.9 | 1901.1 |
| 160° | 2177.6 | 2139.2 | 2170.0 | 2123.9 | 2112.4 | 2081.6 | 2058.6 | 2039.4 | 2001.0 | 1958.7 | 1912.6 |
| 162.5° | 2154.6 | 2143.1 | 2139.2 | 2112.4 | 2089.3 | 2070.1 | 2035.5 | 2047.1 | 2001.0 | 1962.6 | 1928.0 |
| 165° | 2135.4 | 2123.9 | 2120.0 | 2112.4 | 2077.8 | 2062.4 | 2054.7 | 2031.7 | 2012.5 | 1974.1 | 1943.4 |
| 167.5° | 2116.2 | 2097.0 | 2104.7 | 2097.0 | 2054.7 | 2066.3 | 2047.1 | 2031.7 | 2020.2 | 1989.5 | 1958.7 |
| 170° | 2112.4 | 2074.0 | 2093.2 | 2089.3 | 2058.6 | 2054.7 | 2031.7 | 2027.9 | 2016.3 | 1993.3 | 1977.9 |
| 172.5° | 2093.2 | 2066.3 | 2077.8 | 2066.3 | 2050.9 | 2039.4 | 2039.4 | 2043.2 | 2024.0 | 2008.7 | 1989.5 |
| 175° | 2062.4 | 2047.1 | 2050.9 | 2062.4 | 2039.4 | 2031.7 | 2012.5 | 2027.9 | 2031.7 | 2004.8 | 1997.1 |
| 177.5° | 2027.9 | 2043.2 | 2031.7 | 2047.1 | 2027.9 | 2024.0 | 2012.5 | 2024.0 | 2024.0 | 2001.0 | 2001.0 |
| 180° | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 |



TEST NUMBER: P508434

CATALOG NUMBER: ASYX-X-S2-X-U-HSS-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° | 11.5 | 15.4 | 15.4 | 19.2 | 23.0 | 23.0 | 26.9 | 26.9 | 30.7 | 34.6 | 38.4 |
| 95° | 23.0 | 19.2 | 23.0 | 26.9 | 26.9 | 30.7 | 34.6 | 34.6 | 38.4 | 42.2 | 42.2 |
| 97.5° | 46.1 | 30.7 | 30.7 | 30.7 | 34.6 | 34.6 | 38.4 | 42.2 | 46.1 | 46.1 | 46.1 |
| 100° | 88.3 | 49.9 | 49.9 | 38.4 | 38.4 | 42.2 | 42.2 | 46.1 | 49.9 | 49.9 | 49.9 |
| 102.5° | 153.6 | 92.2 | 73.0 | 49.9 | 46.1 | 46.1 | 49.9 | 49.9 | 53.8 | 53.8 | 53.8 |
| 105° | 288.0 | 184.4 | 103.7 | 61.5 | 57.6 | 53.8 | 53.8 | 53.8 | 57.6 | 57.6 | 57.6 |
| 107.5° | 507.0 | 295.7 | 145.9 | 80.7 | 69.1 | 61.5 | 61.5 | 61.5 | 61.5 | 61.5 | 61.5 |
| 110° | 772.0 | 434.0 | 199.7 | 103.7 | 84.5 | 73.0 | 69.1 | 69.1 | 65.3 | 65.3 | 65.3 |
| 112.5° | 1013.9 | 568.4 | 253.5 | 126.7 | 99.9 | 84.5 | 76.8 | 73.0 | 73.0 | 69.1 | 65.3 |
| 115° | 1167.6 | 668.3 | 307.3 | 145.9 | 115.2 | 96.0 | 80.7 | 80.7 | 76.8 | 73.0 | 69.1 |
| 117.5° | 1278.9 | 772.0 | 372.5 | 176.7 | 134.4 | 111.4 | 88.3 | 84.5 | 80.7 | 80.7 | 76.8 |
| 120° | 1386.5 | 879.5 | 441.7 | 211.2 | 161.3 | 126.7 | 99.9 | 92.2 | 88.3 | 84.5 | 80.7 |
| 122.5° | 1490.2 | 983.2 | 518.5 | 253.5 | 188.2 | 149.8 | 111.4 | 99.9 | 96.0 | 88.3 | 88.3 |
| 125° | 1570.8 | 1090.7 | 606.8 | 307.3 | 226.6 | 176.7 | 126.7 | 107.5 | 99.9 | 96.0 | 92.2 |
| 127.5° | 1659.2 | 1198.3 | 699.0 | 364.9 | 268.8 | 211.2 | 145.9 | 119.1 | 111.4 | 103.7 | 99.9 |
| 130° | 1724.5 | 1302.0 | 798.9 | 441.7 | 330.3 | 253.5 | 172.8 | 134.4 | 119.1 | 111.4 | 107.5 |
| 132.5° | 1774.4 | 1390.3 | 898.7 | 526.2 | 403.3 | 307.3 | 207.4 | 161.3 | 134.4 | 122.9 | 115.2 |
| 135° | 1789.7 | 1467.1 | 1002.4 | 618.3 | 480.1 | 376.4 | 253.5 | 192.0 | 153.6 | 134.4 | 126.7 |
| 137.5° | 1805.1 | 1528.6 | 1102.3 | 722.0 | 579.9 | 460.9 | 307.3 | 230.4 | 184.4 | 157.5 | 138.3 |
| 140° | 1797.4 | 1574.7 | 1198.3 | 837.3 | 683.6 | 553.1 | 380.2 | 280.4 | 222.8 | 188.2 | 161.3 |
| 142.5° | 1793.6 | 1613.1 | 1298.1 | 944.8 | 791.2 | 660.6 | 468.6 | 345.7 | 272.7 | 222.8 | 192.0 |
| 145° | 1801.3 | 1640.0 | 1371.1 | 1060.0 | 917.9 | 783.5 | 576.1 | 422.5 | 334.1 | 272.7 | 238.1 |
| 147.5° | 1774.4 | 1655.3 | 1459.4 | 1159.9 | 1029.3 | 898.7 | 691.3 | 526.2 | 418.6 | 341.8 | 291.9 |
| 150° | 1797.4 | 1663.0 | 1497.9 | 1259.7 | 1136.8 | 1017.8 | 818.1 | 645.2 | 522.3 | 430.2 | 368.7 |
| 152.5° | 1793.6 | 1670.7 | 1540.1 | 1348.1 | 1244.4 | 1133.0 | 933.3 | 764.3 | 633.7 | 537.7 | 464.7 |
| 155° | 1812.8 | 1674.5 | 1582.3 | 1436.4 | 1344.2 | 1244.4 | 1063.9 | 902.6 | 764.3 | 668.3 | 583.8 |
| 157.5° | 1828.2 | 1724.5 | 1632.3 | 1517.1 | 1436.4 | 1351.9 | 1198.3 | 1048.5 | 917.9 | 818.1 | 714.4 |
| 160° | 1851.2 | 1751.3 | 1670.7 | 1582.3 | 1528.6 | 1440.2 | 1328.9 | 1209.8 | 1083.1 | 975.5 | 891.0 |
| 162.5° | 1862.7 | 1793.6 | 1724.5 | 1636.1 | 1601.6 | 1540.1 | 1447.9 | 1359.6 | 1252.1 | 1152.2 | 1071.5 |
| 165° | 1885.8 | 1816.6 | 1770.5 | 1697.6 | 1663.0 | 1609.2 | 1551.6 | 1471.0 | 1405.7 | 1321.2 | 1259.7 |
| 167.5° | 1908.8 | 1862.7 | 1824.3 | 1766.7 | 1736.0 | 1697.6 | 1647.6 | 1593.9 | 1559.3 | 1494.0 | 1432.6 |
| 170° | 1931.8 | 1893.4 | 1874.2 | 1847.4 | 1801.3 | 1770.5 | 1747.5 | 1709.1 | 1663.0 | 1632.3 | 1597.7 |
| 172.5° | 1951.1 | 1935.7 | 1924.2 | 1916.5 | 1870.4 | 1847.4 | 1832.0 | 1789.7 | 1789.7 | 1747.5 | 1720.6 |
| 175° | 1981.8 | 1931.8 | 1966.4 | 1947.2 | 1931.8 | 1912.6 | 1905.0 | 1893.4 | 1881.9 | 1866.6 | 1851.2 |
| 177.5° | 1997.1 | 1989.5 | 1997.1 | 1989.5 | 1985.6 | 1966.4 | 1977.9 | 1966.4 | 1962.6 | 1958.7 | 1947.2 |
| 180° | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 |



TEST NUMBER: P508434

CATALOG NUMBER: ASYX-X-S2-X-U-HSS-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° | 42.2 | 42.2 | 46.1 | 46.1 | 46.1 | 46.1 | 49.9 | 46.1 | 42.2 |
| 95° | 46.1 | 49.9 | 49.9 | 49.9 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 |
| 97.5° | 49.9 | 49.9 | 53.8 | 53.8 | 53.8 | 57.6 | 57.6 | 57.6 | 57.6 |
| 100° | 53.8 | 53.8 | 53.8 | 57.6 | 57.6 | 57.6 | 57.6 | 57.6 | 57.6 |
| 102.5° | 53.8 | 53.8 | 53.8 | 57.6 | 57.6 | 57.6 | 57.6 | 57.6 | 57.6 |
| 105° | 57.6 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 |
| 107.5° | 57.6 | 57.6 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 |
| 110° | 61.5 | 57.6 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 | 53.8 | 49.9 |
| 112.5° | 65.3 | 61.5 | 57.6 | 53.8 | 53.8 | 53.8 | 53.8 | 49.9 | 49.9 |
| 115° | 69.1 | 65.3 | 61.5 | 61.5 | 57.6 | 57.6 | 57.6 | 53.8 | 53.8 |
| 117.5° | 73.0 | 69.1 | 65.3 | 65.3 | 61.5 | 61.5 | 57.6 | 57.6 | 57.6 |
| 120° | 76.8 | 76.8 | 73.0 | 69.1 | 69.1 | 65.3 | 65.3 | 61.5 | 61.5 |
| 122.5° | 84.5 | 76.8 | 76.8 | 76.8 | 76.8 | 73.0 | 69.1 | 69.1 | 69.1 |
| 125° | 88.3 | 84.5 | 84.5 | 84.5 | 80.7 | 80.7 | 76.8 | 73.0 | 73.0 |
| 127.5° | 96.0 | 92.2 | 92.2 | 88.3 | 88.3 | 84.5 | 84.5 | 80.7 | 80.7 |
| 130° | 103.7 | 99.9 | 96.0 | 96.0 | 96.0 | 92.2 | 92.2 | 88.3 | 88.3 |
| 132.5° | 111.4 | 107.5 | 107.5 | 103.7 | 103.7 | 99.9 | 99.9 | 96.0 | 96.0 |
| 135° | 122.9 | 115.2 | 115.2 | 115.2 | 111.4 | 107.5 | 107.5 | 107.5 | 103.7 |
| 137.5° | 130.6 | 126.7 | 122.9 | 119.1 | 119.1 | 119.1 | 115.2 | 115.2 | 115.2 |
| 140° | 149.8 | 138.3 | 134.4 | 130.6 | 130.6 | 126.7 | 126.7 | 126.7 | 126.7 |
| 142.5° | 172.8 | 161.3 | 149.8 | 145.9 | 142.1 | 138.3 | 138.3 | 134.4 | 134.4 |
| 145° | 211.2 | 192.0 | 176.7 | 172.8 | 165.1 | 157.5 | 157.5 | 153.6 | 153.6 |
| 147.5° | 257.3 | 234.3 | 215.1 | 207.4 | 203.6 | 195.9 | 188.2 | 184.4 | 180.5 |
| 150° | 322.6 | 288.0 | 268.8 | 261.2 | 253.5 | 238.1 | 230.4 | 226.6 | 226.6 |
| 152.5° | 407.1 | 368.7 | 338.0 | 322.6 | 314.9 | 299.6 | 288.0 | 284.2 | 288.0 |
| 155° | 510.8 | 464.7 | 434.0 | 414.8 | 399.4 | 380.2 | 372.5 | 368.7 | 361.0 |
| 157.5° | 656.8 | 595.3 | 549.2 | 533.9 | 514.6 | 495.4 | 483.9 | 472.4 | 464.7 |
| 160° | 814.2 | 745.1 | 702.8 | 683.6 | 660.6 | 629.9 | 614.5 | 599.1 | 591.5 |
| 162.5° | 987.0 | 929.4 | 879.5 | 848.8 | 837.3 | 798.9 | 783.5 | 764.3 | 768.1 |
| 165° | 1179.1 | 1117.6 | 1079.2 | 1056.2 | 1025.5 | 1006.3 | 994.7 | 967.8 | 956.3 |
| 167.5° | 1382.6 | 1313.5 | 1294.3 | 1263.6 | 1236.7 | 1209.8 | 1209.8 | 1198.3 | 1186.8 |
| 170° | 1536.3 | 1520.9 | 1497.9 | 1463.3 | 1459.4 | 1440.2 | 1440.2 | 1428.7 | 1432.6 |
| 172.5° | 1682.2 | 1659.2 | 1659.2 | 1647.6 | 1636.1 | 1628.4 | 1609.2 | 1616.9 | 1616.9 |
| 175° | 1828.2 | 1816.6 | 1808.9 | 1778.2 | 1785.9 | 1785.9 | 1774.4 | 1774.4 | 1782.1 |
| 177.5° | 1947.2 | 1947.2 | 1939.5 | 1935.7 | 1931.8 | 1935.7 | 1939.5 | 1943.4 | 1935.7 |
| 180° | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 | 2004.8 |

(END OF REPORT)