

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: P508386

Luminaire Tested: **ASYX-X-L5-X-U-HSS-L40-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P508386  
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-L5-X-U-HSS-L40-1-UNV-X-X-X-STD  
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.  
(5) 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**

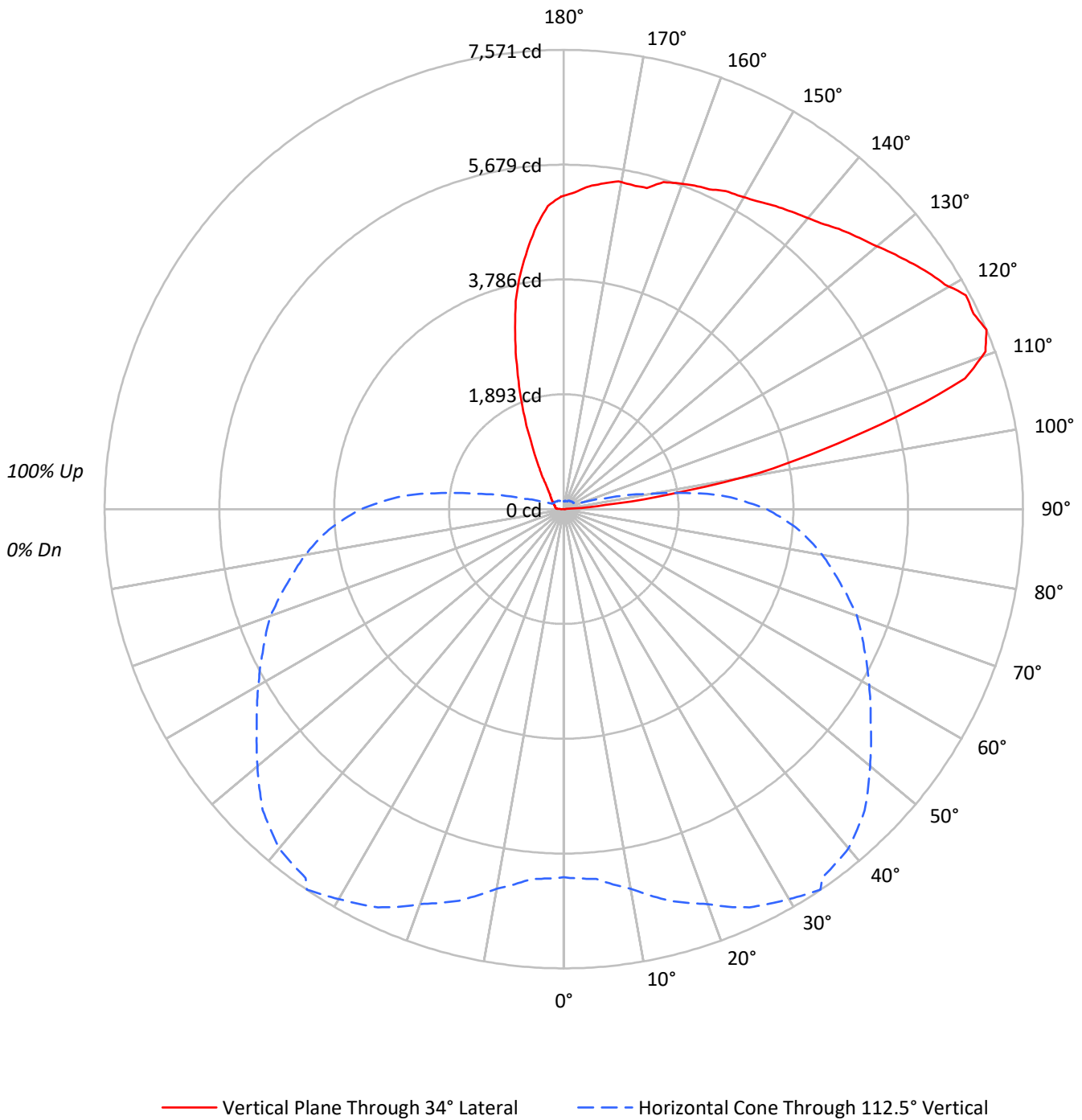
Lumens per Lamp: N/A  
Luminaire Lumens: 17746.2 lumens  
Efficiency: N/A  
Efficacy: 65.7 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
CIE Type: Indirect

Input Watts (W): 270.1  
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: P508386  
CATALOG NUMBER: ASYX-X-L5-X-U-HSS-L40-1-UNV-X-X-X-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P508386

CATALOG NUMBER: ASYX-X-L5-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°  | 815    | 9757  | 11379 |
| 100° | 33043  | 19989 | 6120  |
| 105° | 101268 | 31749 | 3832  |
| 110° | 116191 | 54471 | 2692  |
| 115° | 105933 | 63694 | 2347  |
| 120° | 90672  | 61628 | 2266  |
| 125° | 76200  | 59158 | 2347  |
| 130° | 68767  | 55433 | 2534  |
| 135° | 60909  | 51692 | 2705  |
| 140° | 56315  | 47253 | 3052  |
| 145° | 51540  | 43757 | 3459  |
| 150° | 48832  | 40489 | 4826  |
| 155° | 45880  | 38533 | 7347  |
| 160° | 43798  | 37541 | 11609 |
| 165° | 41948  | 37108 | 18261 |
| 170° | 40497  | 37044 | 26830 |
| 175° | 38896  | 36976 | 32994 |



TEST NUMBER: P508386

CATALOG NUMBER: ASYX-X-L5-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°  | 345.1   | 1.9       |
| 100°-110° | 2162.8  | 12.2      |
| 110°-120° | 3343.1  | 18.8      |
| 120°-130° | 3226.4  | 18.2      |
| 130°-140° | 2802.1  | 15.8      |
| 140°-150° | 2309.6  | 13.0      |
| 150°-160° | 1819.9  | 10.3      |
| 160°-170° | 1262.6  | 7.1       |
| 170°-180° | 474.5   | 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°  | 5851.1  | 33.0      |
| 90°-150°  | 14189.2 | 80.0      |
| 90°-180°  | 17746.0 | 100.0     |
| 0°-180°   | 17746.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 90°  | 0    | 0    | 0    | 0    | 0    |      |
| 95°  | 10   | 89   | 118  | 109  | 138  | 167  |
| 105° | 3652 | 5864 | 1145 | 148  | 138  | 3584 |
| 115° | 6239 | 7117 | 3751 | 188  | 138  | 6068 |
| 125° | 6091 | 6940 | 4728 | 247  | 188  | 5570 |
| 135° | 6002 | 6367 | 5094 | 346  | 266  | 4667 |
| 145° | 5883 | 5952 | 4995 | 701  | 395  | 3730 |
| 155° | 5795 | 5716 | 4867 | 1718 | 928  | 2670 |
| 165° | 5646 | 5489 | 4995 | 3396 | 2458 | 1604 |
| 175° | 5400 | 5301 | 5133 | 4798 | 4580 | 518  |
| 180° | 5153 | 5153 | 5153 | 5153 | 5153 |      |



TEST NUMBER: P508386

CATALOG NUMBER: ASYX-X-L5-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    | 9.9    | 9.9    | 29.6   | 19.7   | 19.7   | 29.6   | 39.5   | 49.4   | 19.7   |
| 95°    | 9.9    | 9.9    | 19.7   | 256.7  | 770.0  | 848.9  | 809.5  | 779.8  | 681.1  | 592.3  | 148.1  |
| 97.5°  | 207.3  | 246.8  | 394.9  | 1056.3 | 2142.1 | 2467.9 | 2625.8 | 2152.0 | 1767.0 | 1638.7 | 878.6  |
| 100°   | 799.6  | 927.9  | 1283.3 | 2428.4 | 3622.8 | 3701.8 | 3672.2 | 3573.5 | 3287.2 | 3099.7 | 2379.0 |
| 102.5° | 2132.2 | 2221.1 | 2714.7 | 3731.4 | 4382.9 | 4521.2 | 4521.2 | 4432.3 | 4402.7 | 4343.5 | 4116.4 |
| 105°   | 3652.5 | 3751.2 | 4146.0 | 4669.2 | 5064.1 | 5212.2 | 5291.1 | 5488.6 | 5686.0 | 5715.6 | 5932.8 |
| 107.5° | 4669.2 | 4767.9 | 5074.0 | 5468.8 | 5982.1 | 6169.7 | 6396.7 | 6712.6 | 6959.4 | 6929.8 | 6880.4 |
| 110°   | 5537.9 | 5646.5 | 5932.8 | 6327.6 | 6702.8 | 6929.8 | 7147.0 | 7285.2 | 7423.4 | 7285.2 | 7216.1 |
| 112.5° | 6071.0 | 6120.3 | 6357.3 | 6683.0 | 6929.8 | 7097.6 | 7245.7 | 7423.4 | 7571.4 | 7423.4 | 7304.9 |
| 115°   | 6238.8 | 6268.4 | 6475.7 | 6702.8 | 6969.3 | 7127.2 | 7235.8 | 7423.4 | 7482.6 | 7453.0 | 7354.3 |
| 117.5° | 6228.9 | 6357.3 | 6534.9 | 6692.9 | 6949.5 | 7077.9 | 7186.5 | 7334.5 | 7512.2 | 7433.2 | 7334.5 |
| 120°   | 6317.8 | 6327.6 | 6515.2 | 6702.8 | 6890.3 | 6998.9 | 6998.9 | 7216.1 | 7295.0 | 7275.3 | 7255.6 |
| 122.5° | 6288.2 | 6317.8 | 6475.7 | 6594.2 | 6791.6 | 6880.4 | 6969.3 | 7077.9 | 7166.7 | 7137.1 | 7137.1 |
| 125°   | 6090.7 | 6278.3 | 6367.1 | 6505.3 | 6692.9 | 6752.1 | 6841.0 | 6929.8 | 7008.8 | 6979.2 | 6969.3 |
| 127.5° | 6209.2 | 6219.1 | 6298.0 | 6446.1 | 6564.6 | 6604.0 | 6702.8 | 6781.7 | 6860.7 | 6850.8 | 6870.6 |
| 130°   | 6159.8 | 6130.2 | 6317.8 | 6377.0 | 6465.8 | 6534.9 | 6584.3 | 6653.4 | 6712.6 | 6712.6 | 6732.4 |
| 132.5° | 6120.3 | 6120.3 | 6179.6 | 6298.0 | 6377.0 | 6426.4 | 6505.3 | 6525.1 | 6594.2 | 6613.9 | 6574.4 |
| 135°   | 6001.9 | 6080.8 | 6169.7 | 6209.2 | 6298.0 | 6337.5 | 6377.0 | 6416.5 | 6475.7 | 6495.5 | 6426.4 |
| 137.5° | 5883.4 | 6001.9 | 6120.3 | 6179.6 | 6248.7 | 6248.7 | 6248.7 | 6307.9 | 6337.5 | 6367.1 | 6298.0 |
| 140°   | 6011.7 | 6001.9 | 6110.5 | 6100.6 | 6140.1 | 6130.2 | 6199.3 | 6209.2 | 6248.7 | 6228.9 | 6189.4 |
| 142.5° | 5982.1 | 5982.1 | 6011.7 | 6051.2 | 6041.4 | 6061.1 | 6110.5 | 6159.8 | 6159.8 | 6179.6 | 6110.5 |
| 145°   | 5883.4 | 5913.0 | 5962.4 | 6001.9 | 6001.9 | 5992.0 | 6051.2 | 6061.1 | 6080.8 | 6071.0 | 6031.5 |
| 147.5° | 5922.9 | 5922.9 | 5922.9 | 5972.3 | 5972.3 | 5972.3 | 5982.1 | 5992.0 | 5992.0 | 6001.9 | 5972.3 |
| 150°   | 5893.3 | 5903.2 | 5922.9 | 5903.2 | 5952.5 | 5873.5 | 5922.9 | 5922.9 | 5922.9 | 5932.8 | 5913.0 |
| 152.5° | 5695.9 | 5834.1 | 5883.4 | 5873.5 | 5834.1 | 5853.8 | 5863.7 | 5903.2 | 5883.4 | 5903.2 | 5843.9 |
| 155°   | 5794.6 | 5784.7 | 5794.6 | 5804.4 | 5774.8 | 5794.6 | 5804.4 | 5804.4 | 5794.6 | 5804.4 | 5755.1 |
| 157.5° | 5765.0 | 5755.1 | 5804.4 | 5745.2 | 5774.8 | 5794.6 | 5755.1 | 5784.7 | 5755.1 | 5794.6 | 5774.8 |
| 160°   | 5735.3 | 5715.6 | 5755.1 | 5715.6 | 5755.1 | 5705.7 | 5676.1 | 5725.5 | 5695.9 | 5765.0 | 5666.2 |
| 162.5° | 5695.9 | 5686.0 | 5725.5 | 5676.1 | 5636.6 | 5616.9 | 5646.5 | 5656.4 | 5636.6 | 5656.4 | 5607.0 |
| 165°   | 5646.5 | 5646.5 | 5646.5 | 5597.1 | 5626.8 | 5626.8 | 5587.3 | 5597.1 | 5468.8 | 5607.0 | 5547.8 |
| 167.5° | 5607.0 | 5646.5 | 5597.1 | 5547.8 | 5607.0 | 5607.0 | 5537.9 | 5547.8 | 5458.9 | 5528.0 | 5498.4 |
| 170°   | 5557.7 | 5518.2 | 5528.0 | 5528.0 | 5577.4 | 5488.6 | 5439.2 | 5528.0 | 5478.7 | 5528.0 | 5478.7 |
| 172.5° | 5439.2 | 5478.7 | 5478.7 | 5458.9 | 5429.3 | 5429.3 | 5419.5 | 5439.2 | 5409.6 | 5419.5 | 5389.8 |
| 175°   | 5399.7 | 5399.7 | 5419.5 | 5449.1 | 5389.8 | 5380.0 | 5320.7 | 5370.1 | 5340.5 | 5360.2 | 5330.6 |
| 177.5° | 5251.6 | 5330.6 | 5320.7 | 5251.6 | 5291.1 | 5231.9 | 5261.5 | 5281.3 | 5222.0 | 5271.4 | 5222.0 |
| 180°   | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 |



TEST NUMBER: P508386

CATALOG NUMBER: ASYX-X-L5-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°  | 19.7   | 19.7   | 19.7   | 29.6   | 29.6   | 29.6   | 29.6   | 29.6   | 29.6   | 29.6   | 29.6   |
| 95°    | 88.8   | 118.5  | 286.3  | 236.9  | 177.7  | 167.8  | 187.6  | 167.8  | 148.1  | 128.3  | 118.5  |
| 97.5°  | 710.7  | 799.6  | 839.1  | 740.4  | 730.5  | 671.3  | 602.2  | 454.1  | 414.6  | 365.2  | 286.3  |
| 100°   | 1944.7 | 1727.5 | 1618.9 | 1441.2 | 1164.8 | 1056.3 | 967.4  | 799.6  | 651.5  | 572.5  | 483.7  |
| 102.5° | 3721.6 | 3316.8 | 2793.6 | 2240.8 | 1826.2 | 1668.3 | 1490.6 | 1243.8 | 1046.4 | 868.7  | 720.6  |
| 105°   | 5863.7 | 5093.7 | 4076.9 | 3336.6 | 2783.8 | 2438.3 | 2280.3 | 1885.5 | 1559.7 | 1362.3 | 1145.1 |
| 107.5° | 6574.4 | 6080.8 | 5449.1 | 4679.1 | 4027.6 | 3711.7 | 3366.2 | 2843.0 | 2428.4 | 2063.1 | 1737.4 |
| 110°   | 6870.6 | 6446.1 | 5972.3 | 5518.2 | 5074.0 | 4787.7 | 4550.8 | 4017.7 | 3504.4 | 3050.3 | 2596.2 |
| 112.5° | 7018.6 | 6594.2 | 6179.6 | 5814.3 | 5468.8 | 5310.9 | 5143.1 | 4718.6 | 4323.7 | 3889.4 | 3346.4 |
| 115°   | 7117.4 | 6781.7 | 6416.5 | 6031.5 | 5765.0 | 5597.1 | 5449.1 | 5064.1 | 4698.8 | 4304.0 | 3751.2 |
| 117.5° | 7166.7 | 6831.1 | 6564.6 | 6248.7 | 5972.3 | 5834.1 | 5676.1 | 5330.6 | 4965.4 | 4600.1 | 4047.3 |
| 120°   | 7107.5 | 6880.4 | 6663.3 | 6396.7 | 6130.2 | 5992.0 | 5863.7 | 5518.2 | 5182.5 | 4837.0 | 4294.1 |
| 122.5° | 7028.5 | 6900.2 | 6732.4 | 6465.8 | 6268.4 | 6149.9 | 6041.4 | 5695.9 | 5399.7 | 5004.9 | 4511.3 |
| 125°   | 6939.7 | 6811.3 | 6633.7 | 6465.8 | 6307.9 | 6219.1 | 6140.1 | 5834.1 | 5528.0 | 5192.4 | 4728.5 |
| 127.5° | 6801.5 | 6683.0 | 6544.8 | 6406.6 | 6288.2 | 6199.3 | 6169.7 | 5903.2 | 5616.9 | 5320.7 | 4846.9 |
| 130°   | 6653.4 | 6554.7 | 6436.2 | 6298.0 | 6219.1 | 6120.3 | 6130.2 | 5893.3 | 5666.2 | 5389.8 | 4965.4 |
| 132.5° | 6456.0 | 6386.9 | 6357.3 | 6209.2 | 6130.2 | 6080.8 | 6011.7 | 5853.8 | 5666.2 | 5449.1 | 5044.3 |
| 135°   | 6367.1 | 6298.0 | 6248.7 | 6120.3 | 6001.9 | 5982.1 | 5883.4 | 5794.6 | 5636.6 | 5478.7 | 5093.7 |
| 137.5° | 6209.2 | 6169.7 | 6140.1 | 6001.9 | 5883.4 | 5883.4 | 5853.8 | 5735.3 | 5597.1 | 5380.0 | 5054.2 |
| 140°   | 6140.1 | 6090.7 | 6011.7 | 5903.2 | 5834.1 | 5774.8 | 5745.2 | 5646.5 | 5478.7 | 5310.9 | 5044.3 |
| 142.5° | 6021.6 | 5982.1 | 5962.4 | 5863.7 | 5755.1 | 5695.9 | 5636.6 | 5528.0 | 5409.6 | 5291.1 | 5004.9 |
| 145°   | 5952.5 | 5942.6 | 5922.9 | 5824.2 | 5656.4 | 5626.8 | 5607.0 | 5488.6 | 5380.0 | 5192.4 | 4995.0 |
| 147.5° | 5863.7 | 5873.5 | 5853.8 | 5735.3 | 5626.8 | 5557.7 | 5508.3 | 5399.7 | 5320.7 | 5162.8 | 4916.0 |
| 150°   | 5804.4 | 5814.3 | 5794.6 | 5646.5 | 5528.0 | 5498.4 | 5478.7 | 5370.1 | 5222.0 | 5093.7 | 4886.4 |
| 152.5° | 5774.8 | 5745.2 | 5695.9 | 5636.6 | 5508.3 | 5439.2 | 5419.5 | 5301.0 | 5222.0 | 5064.1 | 4866.7 |
| 155°   | 5715.6 | 5676.1 | 5646.5 | 5547.8 | 5468.8 | 5399.7 | 5350.4 | 5281.3 | 5192.4 | 5034.5 | 4866.7 |
| 157.5° | 5656.4 | 5616.9 | 5597.1 | 5577.4 | 5468.8 | 5370.1 | 5360.2 | 5281.3 | 5143.1 | 5024.6 | 4886.4 |
| 160°   | 5597.1 | 5498.4 | 5577.4 | 5458.9 | 5429.3 | 5350.4 | 5291.1 | 5241.8 | 5143.1 | 5034.5 | 4916.0 |
| 162.5° | 5537.9 | 5508.3 | 5498.4 | 5429.3 | 5370.1 | 5320.7 | 5231.9 | 5261.5 | 5143.1 | 5044.3 | 4955.5 |
| 165°   | 5488.6 | 5458.9 | 5449.1 | 5429.3 | 5340.5 | 5301.0 | 5281.3 | 5222.0 | 5172.7 | 5074.0 | 4995.0 |
| 167.5° | 5439.2 | 5389.8 | 5409.6 | 5389.8 | 5281.3 | 5310.9 | 5261.5 | 5222.0 | 5192.4 | 5113.4 | 5034.5 |
| 170°   | 5429.3 | 5330.6 | 5380.0 | 5370.1 | 5291.1 | 5281.3 | 5222.0 | 5212.2 | 5182.5 | 5123.3 | 5083.8 |
| 172.5° | 5380.0 | 5310.9 | 5340.5 | 5310.9 | 5271.4 | 5241.8 | 5241.8 | 5251.6 | 5202.3 | 5162.8 | 5113.4 |
| 175°   | 5301.0 | 5261.5 | 5271.4 | 5301.0 | 5241.8 | 5222.0 | 5172.7 | 5212.2 | 5222.0 | 5152.9 | 5133.2 |
| 177.5° | 5212.2 | 5251.6 | 5222.0 | 5261.5 | 5212.2 | 5202.3 | 5172.7 | 5202.3 | 5202.3 | 5143.1 | 5143.1 |
| 180°   | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 |



TEST NUMBER: P508386

CATALOG NUMBER: ASYX-X-L5-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°  | 29.6   | 39.5   | 39.5   | 49.4   | 59.2   | 59.2   | 69.1   | 69.1   | 79.0   | 88.8   | 98.7   |
| 95°    | 59.2   | 49.4   | 59.2   | 69.1   | 69.1   | 79.0   | 88.8   | 88.8   | 98.7   | 108.6  | 108.6  |
| 97.5°  | 118.5  | 79.0   | 79.0   | 79.0   | 88.8   | 88.8   | 98.7   | 108.6  | 118.5  | 118.5  | 118.5  |
| 100°   | 227.0  | 128.3  | 128.3  | 98.7   | 98.7   | 108.6  | 108.6  | 118.5  | 128.3  | 128.3  | 128.3  |
| 102.5° | 394.9  | 236.9  | 187.6  | 128.3  | 118.5  | 118.5  | 128.3  | 128.3  | 138.2  | 138.2  | 138.2  |
| 105°   | 740.4  | 473.8  | 266.5  | 157.9  | 148.1  | 138.2  | 138.2  | 138.2  | 148.1  | 148.1  | 148.1  |
| 107.5° | 1303.0 | 760.1  | 375.1  | 207.3  | 177.7  | 157.9  | 157.9  | 157.9  | 157.9  | 157.9  | 157.9  |
| 110°   | 1984.2 | 1115.5 | 513.3  | 266.5  | 217.2  | 187.6  | 177.7  | 177.7  | 167.8  | 167.8  | 167.8  |
| 112.5° | 2606.1 | 1461.0 | 651.5  | 325.8  | 256.7  | 217.2  | 197.4  | 187.6  | 187.6  | 177.7  | 167.8  |
| 115°   | 3000.9 | 1717.6 | 789.7  | 375.1  | 296.1  | 246.8  | 207.3  | 207.3  | 197.4  | 187.6  | 177.7  |
| 117.5° | 3287.2 | 1984.2 | 957.5  | 454.1  | 345.5  | 286.3  | 227.0  | 217.2  | 207.3  | 207.3  | 197.4  |
| 120°   | 3563.6 | 2260.6 | 1135.2 | 542.9  | 414.6  | 325.8  | 256.7  | 236.9  | 227.0  | 217.2  | 207.3  |
| 122.5° | 3830.1 | 2527.1 | 1332.7 | 651.5  | 483.7  | 385.0  | 286.3  | 256.7  | 246.8  | 227.0  | 227.0  |
| 125°   | 4037.4 | 2803.5 | 1559.7 | 789.7  | 582.4  | 454.1  | 325.8  | 276.4  | 256.7  | 246.8  | 236.9  |
| 127.5° | 4264.5 | 3079.9 | 1796.6 | 937.8  | 691.0  | 542.9  | 375.1  | 306.0  | 286.3  | 266.5  | 256.7  |
| 130°   | 4432.3 | 3346.4 | 2053.3 | 1135.2 | 848.9  | 651.5  | 444.2  | 345.5  | 306.0  | 286.3  | 276.4  |
| 132.5° | 4560.6 | 3573.5 | 2309.9 | 1352.4 | 1036.5 | 789.7  | 533.1  | 414.6  | 345.5  | 315.9  | 296.1  |
| 135°   | 4600.1 | 3770.9 | 2576.5 | 1589.3 | 1233.9 | 967.4  | 651.5  | 493.6  | 394.9  | 345.5  | 325.8  |
| 137.5° | 4639.6 | 3928.9 | 2833.1 | 1855.8 | 1490.6 | 1184.6 | 789.7  | 592.3  | 473.8  | 404.7  | 355.4  |
| 140°   | 4619.9 | 4047.3 | 3079.9 | 2152.0 | 1757.1 | 1421.5 | 977.3  | 720.6  | 572.5  | 483.7  | 414.6  |
| 142.5° | 4610.0 | 4146.0 | 3336.6 | 2428.4 | 2033.5 | 1697.9 | 1204.3 | 888.4  | 700.9  | 572.5  | 493.6  |
| 145°   | 4629.7 | 4215.1 | 3524.1 | 2724.5 | 2359.3 | 2013.8 | 1480.7 | 1085.9 | 858.8  | 700.9  | 612.0  |
| 147.5° | 4560.6 | 4254.6 | 3751.2 | 2981.2 | 2645.6 | 2309.9 | 1776.9 | 1352.4 | 1076.0 | 878.6  | 750.2  |
| 150°   | 4619.9 | 4274.4 | 3849.9 | 3237.9 | 2922.0 | 2615.9 | 2102.6 | 1658.4 | 1342.5 | 1105.6 | 947.7  |
| 152.5° | 4610.0 | 4294.1 | 3958.5 | 3464.9 | 3198.4 | 2912.1 | 2398.8 | 1964.4 | 1628.8 | 1382.0 | 1194.5 |
| 155°   | 4659.4 | 4304.0 | 4067.1 | 3691.9 | 3455.0 | 3198.4 | 2734.4 | 2319.8 | 1964.4 | 1717.6 | 1500.5 |
| 157.5° | 4698.8 | 4432.3 | 4195.4 | 3899.2 | 3691.9 | 3474.8 | 3079.9 | 2694.9 | 2359.3 | 2102.6 | 1836.1 |
| 160°   | 4758.1 | 4501.4 | 4294.1 | 4067.1 | 3928.9 | 3701.8 | 3415.5 | 3109.5 | 2783.8 | 2507.4 | 2290.2 |
| 162.5° | 4787.7 | 4610.0 | 4432.3 | 4205.3 | 4116.4 | 3958.5 | 3721.6 | 3494.5 | 3218.1 | 2961.5 | 2754.2 |
| 165°   | 4846.9 | 4669.2 | 4550.8 | 4363.2 | 4274.4 | 4136.2 | 3988.1 | 3780.8 | 3613.0 | 3395.8 | 3237.9 |
| 167.5° | 4906.1 | 4787.7 | 4689.0 | 4540.9 | 4461.9 | 4363.2 | 4234.9 | 4096.7 | 4007.8 | 3840.0 | 3682.1 |
| 170°   | 4965.4 | 4866.7 | 4817.3 | 4748.2 | 4629.7 | 4550.8 | 4491.5 | 4392.8 | 4274.4 | 4195.4 | 4106.5 |
| 172.5° | 5014.7 | 4975.2 | 4945.6 | 4925.9 | 4807.4 | 4748.2 | 4708.7 | 4600.1 | 4600.1 | 4491.5 | 4422.4 |
| 175°   | 5093.7 | 4965.4 | 5054.2 | 5004.9 | 4965.4 | 4916.0 | 4896.3 | 4866.7 | 4837.0 | 4797.6 | 4758.1 |
| 177.5° | 5133.2 | 5113.4 | 5133.2 | 5113.4 | 5103.6 | 5054.2 | 5083.8 | 5054.2 | 5044.3 | 5034.5 | 5004.9 |
| 180°   | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 |





TEST NUMBER: P508386

CATALOG NUMBER: ASYX-X-L5-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°  | 108.6  | 108.6  | 118.5  | 118.5  | 118.5  | 118.5  | 128.3  | 118.5  | 108.6  |
| 95°    | 118.5  | 128.3  | 128.3  | 128.3  | 138.2  | 138.2  | 138.2  | 138.2  | 138.2  |
| 97.5°  | 128.3  | 128.3  | 138.2  | 138.2  | 138.2  | 148.1  | 148.1  | 148.1  | 148.1  |
| 100°   | 138.2  | 138.2  | 138.2  | 148.1  | 148.1  | 148.1  | 148.1  | 148.1  | 148.1  |
| 102.5° | 138.2  | 138.2  | 138.2  | 148.1  | 148.1  | 148.1  | 148.1  | 148.1  | 148.1  |
| 105°   | 148.1  | 138.2  | 138.2  | 138.2  | 138.2  | 138.2  | 138.2  | 138.2  | 138.2  |
| 107.5° | 148.1  | 148.1  | 138.2  | 138.2  | 138.2  | 138.2  | 138.2  | 138.2  | 138.2  |
| 110°   | 157.9  | 148.1  | 138.2  | 138.2  | 138.2  | 138.2  | 138.2  | 138.2  | 128.3  |
| 112.5° | 167.8  | 157.9  | 148.1  | 138.2  | 138.2  | 138.2  | 138.2  | 128.3  | 128.3  |
| 115°   | 177.7  | 167.8  | 157.9  | 157.9  | 148.1  | 148.1  | 148.1  | 138.2  | 138.2  |
| 117.5° | 187.6  | 177.7  | 167.8  | 167.8  | 157.9  | 157.9  | 148.1  | 148.1  | 148.1  |
| 120°   | 197.4  | 197.4  | 187.6  | 177.7  | 177.7  | 167.8  | 167.8  | 157.9  | 157.9  |
| 122.5° | 217.2  | 197.4  | 197.4  | 197.4  | 197.4  | 187.6  | 177.7  | 177.7  | 177.7  |
| 125°   | 227.0  | 217.2  | 217.2  | 217.2  | 207.3  | 207.3  | 197.4  | 187.6  | 187.6  |
| 127.5° | 246.8  | 236.9  | 236.9  | 227.0  | 227.0  | 217.2  | 217.2  | 207.3  | 207.3  |
| 130°   | 266.5  | 256.7  | 246.8  | 246.8  | 246.8  | 236.9  | 236.9  | 227.0  | 227.0  |
| 132.5° | 286.3  | 276.4  | 276.4  | 266.5  | 266.5  | 256.7  | 256.7  | 246.8  | 246.8  |
| 135°   | 315.9  | 296.1  | 296.1  | 296.1  | 286.3  | 276.4  | 276.4  | 276.4  | 266.5  |
| 137.5° | 335.6  | 325.8  | 315.9  | 306.0  | 306.0  | 306.0  | 296.1  | 296.1  | 296.1  |
| 140°   | 385.0  | 355.4  | 345.5  | 335.6  | 335.6  | 325.8  | 325.8  | 325.8  | 325.8  |
| 142.5° | 444.2  | 414.6  | 385.0  | 375.1  | 365.2  | 355.4  | 355.4  | 345.5  | 345.5  |
| 145°   | 542.9  | 493.6  | 454.1  | 444.2  | 424.5  | 404.7  | 404.7  | 394.9  | 394.9  |
| 147.5° | 661.4  | 602.2  | 552.8  | 533.1  | 523.2  | 503.4  | 483.7  | 473.8  | 464.0  |
| 150°   | 829.2  | 740.4  | 691.0  | 671.3  | 651.5  | 612.0  | 592.3  | 582.4  | 582.4  |
| 152.5° | 1046.4 | 947.7  | 868.7  | 829.2  | 809.5  | 770.0  | 740.4  | 730.5  | 740.4  |
| 155°   | 1312.9 | 1194.5 | 1115.5 | 1066.1 | 1026.6 | 977.3  | 957.5  | 947.7  | 927.9  |
| 157.5° | 1688.0 | 1530.1 | 1411.6 | 1372.1 | 1322.8 | 1273.4 | 1243.8 | 1214.2 | 1194.5 |
| 160°   | 2092.8 | 1915.1 | 1806.5 | 1757.1 | 1697.9 | 1618.9 | 1579.4 | 1540.0 | 1520.2 |
| 162.5° | 2537.0 | 2388.9 | 2260.6 | 2181.6 | 2152.0 | 2053.3 | 2013.8 | 1964.4 | 1974.3 |
| 165°   | 3030.6 | 2872.6 | 2773.9 | 2714.7 | 2635.7 | 2586.3 | 2556.7 | 2487.6 | 2458.0 |
| 167.5° | 3553.7 | 3376.1 | 3326.7 | 3247.7 | 3178.6 | 3109.5 | 3109.5 | 3079.9 | 3050.3 |
| 170°   | 3948.6 | 3909.1 | 3849.9 | 3761.0 | 3751.2 | 3701.8 | 3701.8 | 3672.2 | 3682.1 |
| 172.5° | 4323.7 | 4264.5 | 4264.5 | 4234.9 | 4205.3 | 4185.5 | 4136.2 | 4155.9 | 4155.9 |
| 175°   | 4698.8 | 4669.2 | 4649.5 | 4570.5 | 4590.3 | 4590.3 | 4560.6 | 4560.6 | 4580.4 |
| 177.5° | 5004.9 | 5004.9 | 4985.1 | 4975.2 | 4965.4 | 4975.2 | 4985.1 | 4995.0 | 4975.2 |
| 180°   | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 | 5152.9 |

(END OF REPORT)