

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: P508379

Luminaire Tested: **ASYX-X-L5-X-U-F-L27-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P508379  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-840-1)  
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-F-L27-1-UNV-X-X-X-STD  
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.  
(5) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

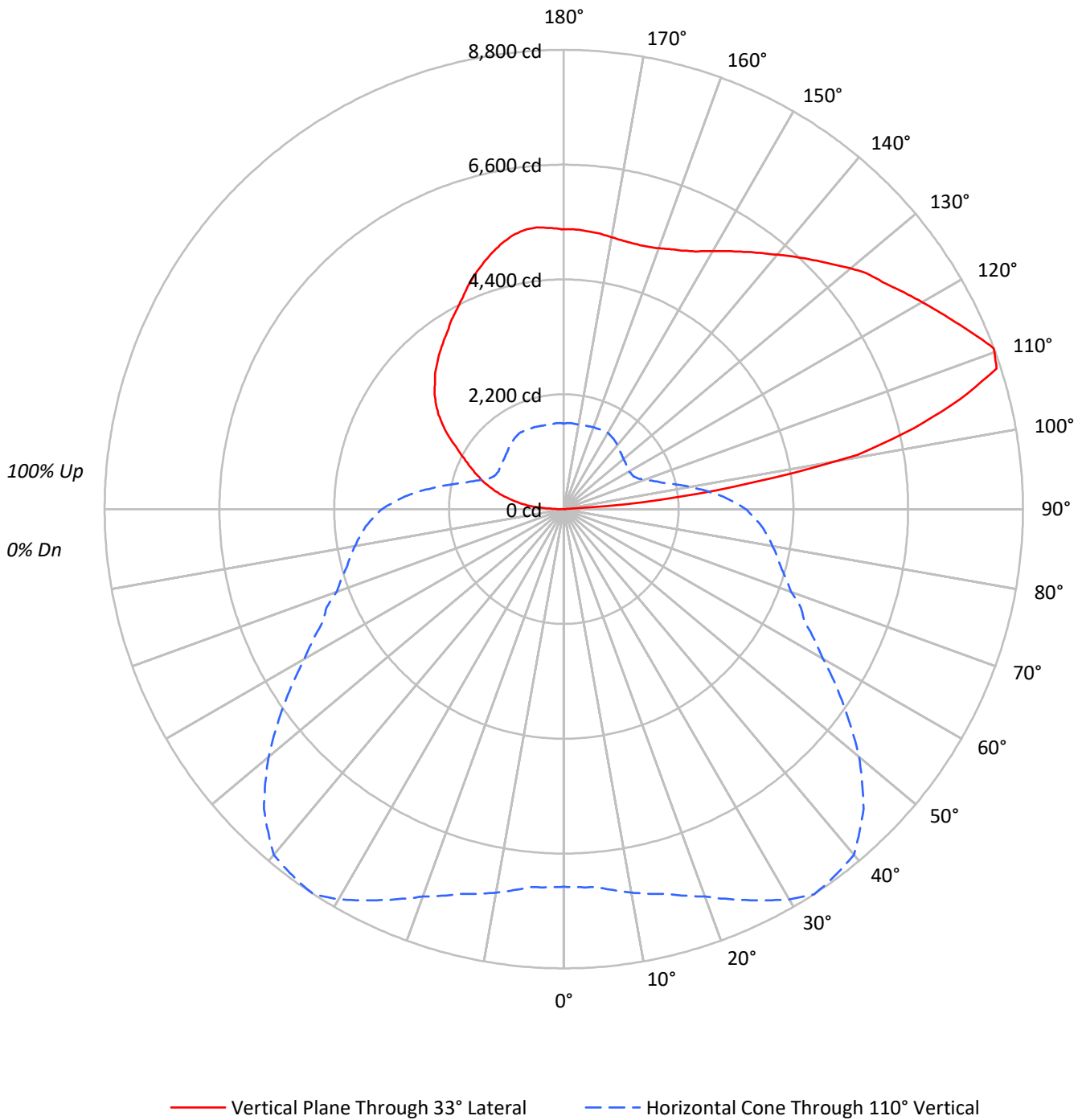
Lumens per Lamp: N/A  
Luminaire Lumens: 25464.2 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
CIE Type: Indirect

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: P508379  
CATALOG NUMBER: ASYX-X-L5-X-U-F-L27-1-UNV-X-X-X-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P508379

CATALOG NUMBER: ASYX-X-L5-X-U-F-L27-1-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°  | 61875  | 23745 | 51805 |
| 100° | 157087 | 50557 | 42614 |
| 105° | 152641 | 55967 | 36343 |
| 110° | 151811 | 73155 | 34470 |
| 115° | 132355 | 82944 | 31604 |
| 120° | 109990 | 81522 | 30476 |
| 125° | 93695  | 75984 | 31049 |
| 130° | 80095  | 69655 | 32779 |
| 135° | 68907  | 64029 | 33168 |
| 140° | 60085  | 59103 | 33071 |
| 145° | 52821  | 54506 | 33300 |
| 150° | 46342  | 50904 | 33308 |
| 155° | 42553  | 47742 | 33765 |
| 160° | 39372  | 44511 | 34901 |
| 165° | 38044  | 42133 | 36615 |
| 170° | 37887  | 40243 | 38142 |
| 175° | 38776  | 38965 | 38461 |



TEST NUMBER: P508379

CATALOG NUMBER: ASYX-X-L5-X-U-F-L27-1-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°  | 924.3   | 3.6       |
| 100°-110° | 3409.1  | 13.4      |
| 110°-120° | 4625.7  | 18.2      |
| 120°-130° | 4605.2  | 18.1      |
| 130°-140° | 4099.7  | 16.1      |
| 140°-150° | 3331.5  | 13.1      |
| 150°-160° | 2446.2  | 9.6       |
| 160°-170° | 1509.6  | 5.9       |
| 170°-180° | 512.9   | 2.0       |
| 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°  | 8959.2  | 35.2      |
| 90°-150°  | 20995.6 | 82.5      |
| 90°-180°  | 25464.0 | 100.0     |
| 0°-180°   | 25464.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 90°  | 0    | 0    | 0    | 0    | 0    |      |
| 95°  | 752  | 1110 | 288  | 437  | 629  | 1245 |
| 105° | 5505 | 7393 | 2019 | 1188 | 1311 | 5859 |
| 115° | 7795 | 8022 | 4885 | 1896 | 1861 | 7622 |
| 125° | 7489 | 7489 | 6073 | 2692 | 2482 | 6694 |
| 135° | 6790 | 6816 | 6309 | 3399 | 3268 | 5290 |
| 145° | 6030 | 6047 | 6222 | 4028 | 3801 | 3792 |
| 155° | 5374 | 5558 | 6030 | 4728 | 4264 | 2480 |
| 165° | 5121 | 5304 | 5671 | 5252 | 4929 | 1463 |
| 175° | 5383 | 5331 | 5409 | 5409 | 5339 | 506  |
| 180° | 5366 | 5366 | 5366 | 5366 | 5366 |      |



TEST NUMBER: P508379

CATALOG NUMBER: ASYX-X-L5-X-U-F-L27-1-UNV-X-X-X-STD

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 33°    | 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°  | 43.7   | 43.7   | 43.7   | 52.4   | 61.2   | 61.2   | 78.6   | 87.4   | 78.6   | 113.6  | 131.1  |
| 95°    | 751.5  | 865.1  | 1240.9 | 1476.8 | 1459.4 | 1380.7 | 1468.1 | 1721.5 | 1852.6 | 1686.6 | 1433.1 |
| 97.5°  | 1887.6 | 1957.5 | 2735.2 | 3102.2 | 3425.6 | 3582.9 | 3722.7 | 3609.1 | 3670.3 | 3635.3 | 3312.0 |
| 100°   | 3801.3 | 4028.5 | 4299.4 | 4675.2 | 5138.4 | 5470.4 | 5723.8 | 5924.8 | 5732.6 | 5426.7 | 4535.4 |
| 102.5° | 4867.5 | 4946.1 | 5129.6 | 5321.9 | 5820.0 | 6064.7 | 6318.1 | 6755.0 | 6886.1 | 6824.9 | 6344.3 |
| 105°   | 5505.4 | 5549.1 | 5723.8 | 6012.2 | 6396.7 | 6667.6 | 6982.2 | 7550.2 | 7882.3 | 7917.3 | 7952.2 |
| 107.5° | 6309.3 | 6405.5 | 6615.2 | 6798.7 | 7253.1 | 7567.7 | 7847.3 | 8432.8 | 8721.2 | 8738.7 | 8616.4 |
| 110°   | 7235.6 | 7270.6 | 7462.8 | 7637.6 | 7899.8 | 8083.3 | 8266.8 | 8633.8 | 8799.9 | 8773.6 | 8651.3 |
| 112.5° | 7733.7 | 7777.4 | 7847.3 | 7908.5 | 8030.9 | 8109.5 | 8223.1 | 8459.1 | 8555.2 | 8581.4 | 8459.1 |
| 115°   | 7794.9 | 7794.9 | 7847.3 | 7856.1 | 7995.9 | 7995.9 | 8048.3 | 8275.5 | 8319.2 | 8354.2 | 8284.3 |
| 117.5° | 7742.5 | 7760.0 | 7794.9 | 7777.4 | 7838.6 | 7926.0 | 7908.5 | 8048.3 | 8100.8 | 8074.6 | 8100.8 |
| 120°   | 7663.8 | 7646.4 | 7716.3 | 7681.3 | 7725.0 | 7777.4 | 7742.5 | 7847.3 | 7891.0 | 7873.6 | 7961.0 |
| 122.5° | 7585.2 | 7585.2 | 7611.4 | 7602.7 | 7585.2 | 7567.7 | 7576.4 | 7646.4 | 7690.1 | 7681.3 | 7733.7 |
| 125°   | 7489.1 | 7480.3 | 7471.6 | 7436.6 | 7480.3 | 7454.1 | 7410.4 | 7462.8 | 7497.8 | 7480.3 | 7532.8 |
| 127.5° | 7331.8 | 7340.5 | 7323.0 | 7305.5 | 7253.1 | 7244.4 | 7288.1 | 7261.9 | 7349.2 | 7296.8 | 7349.2 |
| 130°   | 7174.5 | 7174.5 | 7157.0 | 7122.0 | 7104.6 | 7069.6 | 7060.9 | 7078.3 | 7130.8 | 7148.3 | 7069.6 |
| 132.5° | 7052.1 | 6991.0 | 6947.3 | 6921.0 | 6921.0 | 6886.1 | 6868.6 | 6886.1 | 6912.3 | 6956.0 | 6964.7 |
| 135°   | 6790.0 | 6755.0 | 6755.0 | 6720.1 | 6772.5 | 6693.8 | 6676.4 | 6702.6 | 6711.3 | 6711.3 | 6763.8 |
| 137.5° | 6641.4 | 6554.0 | 6519.1 | 6510.3 | 6501.6 | 6475.4 | 6475.4 | 6510.3 | 6519.1 | 6510.3 | 6554.0 |
| 140°   | 6414.2 | 6318.1 | 6353.0 | 6309.3 | 6318.1 | 6274.4 | 6291.9 | 6291.9 | 6326.8 | 6326.8 | 6370.5 |
| 142.5° | 6283.1 | 6143.3 | 6125.8 | 6099.6 | 6108.3 | 6090.9 | 6178.3 | 6117.1 | 6152.0 | 6213.2 | 6187.0 |
| 145°   | 6029.7 | 5916.1 | 5942.3 | 5916.1 | 5924.8 | 5907.4 | 5951.1 | 5942.3 | 5986.0 | 5977.3 | 6021.0 |
| 147.5° | 5758.8 | 5750.1 | 5758.8 | 5741.3 | 5758.8 | 5741.3 | 5793.8 | 5785.0 | 5828.7 | 5854.9 | 5863.7 |
| 150°   | 5592.8 | 5557.8 | 5566.5 | 5584.0 | 5566.5 | 5601.5 | 5601.5 | 5636.5 | 5680.2 | 5688.9 | 5723.8 |
| 152.5° | 5418.0 | 5409.3 | 5452.9 | 5426.7 | 5444.2 | 5444.2 | 5470.4 | 5479.2 | 5540.3 | 5549.1 | 5636.5 |
| 155°   | 5374.3 | 5295.6 | 5295.6 | 5286.9 | 5330.6 | 5330.6 | 5365.6 | 5418.0 | 5444.2 | 5487.9 | 5496.6 |
| 157.5° | 5217.0 | 5208.3 | 5208.3 | 5243.2 | 5199.5 | 5252.0 | 5330.6 | 5304.4 | 5374.3 | 5383.0 | 5418.0 |
| 160°   | 5155.8 | 5129.6 | 5147.1 | 5164.6 | 5164.6 | 5208.3 | 5269.4 | 5260.7 | 5304.4 | 5356.8 | 5365.6 |
| 162.5° | 5190.8 | 5103.4 | 5112.1 | 5155.8 | 5138.4 | 5199.5 | 5208.3 | 5225.7 | 5269.4 | 5286.9 | 5339.3 |
| 165°   | 5120.9 | 5094.7 | 5077.2 | 5094.7 | 5147.1 | 5173.3 | 5199.5 | 5217.0 | 5260.7 | 5269.4 | 5295.6 |
| 167.5° | 5147.1 | 5138.4 | 5138.4 | 5155.8 | 5190.8 | 5190.8 | 5234.5 | 5225.7 | 5269.4 | 5269.4 | 5286.9 |
| 170°   | 5199.5 | 5173.3 | 5190.8 | 5225.7 | 5164.6 | 5260.7 | 5252.0 | 5225.7 | 5295.6 | 5295.6 | 5321.9 |
| 172.5° | 5269.4 | 5243.2 | 5252.0 | 5252.0 | 5252.0 | 5304.4 | 5313.1 | 5321.9 | 5330.6 | 5321.9 | 5321.9 |
| 175°   | 5383.0 | 5313.1 | 5304.4 | 5304.4 | 5321.9 | 5321.9 | 5339.3 | 5295.6 | 5348.1 | 5348.1 | 5339.3 |
| 177.5° | 5356.8 | 5330.6 | 5374.3 | 5330.6 | 5313.1 | 5348.1 | 5374.3 | 5339.3 | 5365.6 | 5339.3 | 5365.6 |
| 180°   | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 |



TEST NUMBER: P508379

CATALOG NUMBER: ASYX-X-L5-X-U-F-L27-1-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°  | 113.6  | 113.6  | 113.6  | 104.9  | 96.1   | 96.1   | 96.1   | 96.1   | 87.4   | 78.6   | 78.6   |
| 95°    | 1109.8 | 882.6  | 804.0  | 664.1  | 559.3  | 515.6  | 445.7  | 445.7  | 332.1  | 270.9  | 288.4  |
| 97.5°  | 2787.6 | 2167.2 | 1721.5 | 1302.1 | 1240.9 | 1162.2 | 1153.5 | 978.7  | 865.1  | 786.5  | 681.6  |
| 100°   | 3617.8 | 2971.2 | 2577.9 | 2359.4 | 2071.1 | 1940.0 | 1843.9 | 1660.4 | 1546.7 | 1389.5 | 1223.4 |
| 102.5° | 5374.3 | 4465.5 | 3696.5 | 3049.8 | 2612.9 | 2429.4 | 2307.0 | 2114.8 | 1974.9 | 1817.6 | 1607.9 |
| 105°   | 7392.9 | 6117.1 | 4832.5 | 3862.5 | 3277.0 | 3041.1 | 2831.3 | 2639.1 | 2455.6 | 2210.9 | 2018.6 |
| 107.5° | 7934.7 | 7008.4 | 6038.4 | 4954.8 | 4142.1 | 3906.2 | 3661.5 | 3338.2 | 3093.5 | 2883.8 | 2551.7 |
| 110°   | 8127.0 | 7384.2 | 6545.3 | 5741.3 | 5085.9 | 4919.9 | 4631.5 | 4308.2 | 4063.5 | 3810.1 | 3486.7 |
| 112.5° | 8048.3 | 7585.2 | 6912.3 | 6195.7 | 5662.7 | 5496.6 | 5286.9 | 5085.9 | 4954.8 | 4762.6 | 4334.4 |
| 115°   | 8022.1 | 7646.4 | 7174.5 | 6536.5 | 6055.9 | 5872.4 | 5706.4 | 5522.9 | 5487.9 | 5356.8 | 4884.9 |
| 117.5° | 7908.5 | 7655.1 | 7296.8 | 6781.2 | 6353.0 | 6230.7 | 6064.7 | 5916.1 | 5898.6 | 5767.5 | 5356.8 |
| 120°   | 7829.9 | 7620.1 | 7314.3 | 6973.5 | 6606.5 | 6475.4 | 6335.6 | 6222.0 | 6169.5 | 6073.4 | 5680.2 |
| 122.5° | 7646.4 | 7567.7 | 7331.8 | 7043.4 | 6711.3 | 6650.1 | 6519.1 | 6326.8 | 6414.2 | 6309.3 | 5933.6 |
| 125°   | 7489.1 | 7445.4 | 7384.2 | 7034.6 | 6798.7 | 6720.1 | 6623.9 | 6510.3 | 6536.5 | 6466.6 | 6073.4 |
| 127.5° | 7323.0 | 7314.3 | 7270.6 | 7060.9 | 6842.4 | 6807.4 | 6693.8 | 6606.5 | 6589.0 | 6519.1 | 6169.5 |
| 130°   | 7191.9 | 7183.2 | 7122.0 | 6982.2 | 6842.4 | 6833.7 | 6720.1 | 6650.1 | 6641.4 | 6580.2 | 6239.4 |
| 132.5° | 6999.7 | 6999.7 | 7034.6 | 6894.8 | 6807.4 | 6781.2 | 6728.8 | 6641.4 | 6667.6 | 6536.5 | 6274.4 |
| 135°   | 6816.2 | 6824.9 | 6851.1 | 6781.2 | 6833.7 | 6737.5 | 6685.1 | 6571.5 | 6623.9 | 6571.5 | 6309.3 |
| 137.5° | 6606.5 | 6632.7 | 6685.1 | 6658.9 | 6685.1 | 6693.8 | 6623.9 | 6597.7 | 6597.7 | 6545.3 | 6300.6 |
| 140°   | 6353.0 | 6457.9 | 6554.0 | 6545.3 | 6597.7 | 6589.0 | 6562.8 | 6440.4 | 6554.0 | 6519.1 | 6309.3 |
| 142.5° | 6239.4 | 6300.6 | 6414.2 | 6388.0 | 6501.6 | 6501.6 | 6484.1 | 6475.4 | 6501.6 | 6440.4 | 6274.4 |
| 145°   | 6047.2 | 6143.3 | 6230.7 | 6283.1 | 6353.0 | 6422.9 | 6396.7 | 6414.2 | 6422.9 | 6422.9 | 6222.0 |
| 147.5° | 5924.8 | 6029.7 | 6143.3 | 6160.8 | 6283.1 | 6300.6 | 6309.3 | 6335.6 | 6388.0 | 6318.1 | 6239.4 |
| 150°   | 5793.8 | 5863.7 | 5994.7 | 6047.2 | 6178.3 | 6204.5 | 6195.7 | 6230.7 | 6318.1 | 6265.6 | 6143.3 |
| 152.5° | 5592.8 | 5741.3 | 5854.9 | 5933.6 | 6029.7 | 6090.9 | 6099.6 | 6099.6 | 6178.3 | 6178.3 | 6108.3 |
| 155°   | 5557.8 | 5636.5 | 5741.3 | 5820.0 | 5924.8 | 5986.0 | 5994.7 | 5994.7 | 6073.4 | 6047.2 | 6029.7 |
| 157.5° | 5479.2 | 5584.0 | 5671.4 | 5697.6 | 5828.7 | 5881.1 | 5881.1 | 5898.6 | 5968.5 | 5986.0 | 5924.8 |
| 160°   | 5426.7 | 5479.2 | 5584.0 | 5662.7 | 5732.6 | 5793.8 | 5802.5 | 5820.0 | 5863.7 | 5854.9 | 5828.7 |
| 162.5° | 5348.1 | 5426.7 | 5522.9 | 5566.5 | 5645.2 | 5706.4 | 5697.6 | 5697.6 | 5776.3 | 5793.8 | 5758.8 |
| 165°   | 5304.4 | 5391.8 | 5505.4 | 5531.6 | 5584.0 | 5619.0 | 5610.2 | 5636.5 | 5706.4 | 5688.9 | 5671.4 |
| 167.5° | 5321.9 | 5365.6 | 5461.7 | 5452.9 | 5514.1 | 5540.3 | 5540.3 | 5522.9 | 5566.5 | 5505.4 | 5557.8 |
| 170°   | 5348.1 | 5348.1 | 5400.5 | 5418.0 | 5470.4 | 5496.6 | 5470.4 | 5470.4 | 5496.6 | 5514.1 | 5522.9 |
| 172.5° | 5356.8 | 5348.1 | 5391.8 | 5383.0 | 5400.5 | 5444.2 | 5418.0 | 5383.0 | 5435.5 | 5470.4 | 5426.7 |
| 175°   | 5330.6 | 5339.3 | 5409.3 | 5391.8 | 5365.6 | 5409.3 | 5365.6 | 5356.8 | 5435.5 | 5426.7 | 5409.3 |
| 177.5° | 5304.4 | 5304.4 | 5348.1 | 5313.1 | 5374.3 | 5374.3 | 5330.6 | 5330.6 | 5418.0 | 5356.8 | 5339.3 |
| 180°   | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 |



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**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°  | 87.4   | 96.1   | 104.9  | 122.3  | 131.1  | 139.8  | 157.3  | 174.8  | 201.0  | 201.0  | 235.9  |
| 95°    | 279.6  | 288.4  | 288.4  | 305.9  | 314.6  | 314.6  | 323.3  | 358.3  | 393.2  | 436.9  | 515.6  |
| 97.5°  | 594.2  | 524.3  | 506.8  | 506.8  | 515.6  | 515.6  | 524.3  | 541.8  | 568.0  | 620.4  | 699.1  |
| 100°   | 1048.6 | 891.3  | 777.7  | 716.6  | 699.1  | 690.4  | 699.1  | 699.1  | 742.8  | 812.7  | 900.1  |
| 102.5° | 1372.0 | 1162.2 | 970.0  | 882.6  | 847.7  | 856.4  | 847.7  | 865.1  | 926.3  | 987.5  | 1083.6 |
| 105°   | 1730.3 | 1459.4 | 1214.7 | 1083.6 | 1031.2 | 1022.4 | 1022.4 | 1039.9 | 1109.8 | 1188.5 | 1258.4 |
| 107.5° | 2219.6 | 1878.8 | 1520.5 | 1328.3 | 1249.6 | 1232.2 | 1232.2 | 1258.4 | 1302.1 | 1354.5 | 1433.1 |
| 110°   | 3006.1 | 2446.8 | 1948.7 | 1642.9 | 1538.0 | 1476.8 | 1441.9 | 1468.1 | 1494.3 | 1538.0 | 1599.2 |
| 112.5° | 3740.2 | 3049.8 | 2394.4 | 1931.3 | 1791.4 | 1695.3 | 1642.9 | 1642.9 | 1677.8 | 1712.8 | 1756.5 |
| 115°   | 4247.0 | 3478.0 | 2770.2 | 2228.4 | 2027.4 | 1940.0 | 1826.4 | 1835.1 | 1861.3 | 1896.3 | 1922.5 |
| 117.5° | 4701.4 | 3880.0 | 3084.8 | 2508.0 | 2280.8 | 2141.0 | 2027.4 | 2001.2 | 2053.6 | 2097.3 | 2114.8 |
| 120°   | 5024.7 | 4229.5 | 3399.4 | 2796.4 | 2534.2 | 2376.9 | 2219.6 | 2193.4 | 2245.8 | 2254.6 | 2342.0 |
| 122.5° | 5295.6 | 4483.0 | 3670.3 | 3049.8 | 2770.2 | 2639.1 | 2446.8 | 2411.9 | 2446.8 | 2508.0 | 2577.9 |
| 125°   | 5470.4 | 4710.2 | 3914.9 | 3285.7 | 3023.6 | 2848.8 | 2647.8 | 2621.6 | 2647.8 | 2691.5 | 2770.2 |
| 127.5° | 5610.2 | 4893.7 | 4150.9 | 3530.4 | 3224.6 | 3084.8 | 2883.8 | 2831.3 | 2866.3 | 2883.8 | 2971.2 |
| 130°   | 5715.1 | 5103.4 | 4369.3 | 3766.4 | 3495.5 | 3355.7 | 3084.8 | 3032.3 | 3049.8 | 3093.5 | 3137.2 |
| 132.5° | 5820.0 | 5234.5 | 4587.8 | 4011.1 | 3748.9 | 3591.6 | 3329.4 | 3215.8 | 3224.6 | 3259.5 | 3303.2 |
| 135°   | 5889.9 | 5374.3 | 4815.0 | 4255.7 | 3967.4 | 3845.0 | 3565.4 | 3451.8 | 3408.1 | 3399.4 | 3451.8 |
| 137.5° | 5959.8 | 5505.4 | 4989.8 | 4483.0 | 4238.3 | 4098.4 | 3766.4 | 3635.3 | 3591.6 | 3582.9 | 3600.3 |
| 140°   | 6021.0 | 5619.0 | 5147.1 | 4727.6 | 4483.0 | 4316.9 | 4011.1 | 3845.0 | 3775.1 | 3740.2 | 3757.6 |
| 142.5° | 6047.2 | 5715.1 | 5313.1 | 4989.8 | 4692.7 | 4500.4 | 4247.0 | 4081.0 | 3932.4 | 3888.7 | 3853.8 |
| 145°   | 6064.7 | 5863.7 | 5470.4 | 5155.8 | 4928.6 | 4815.0 | 4509.2 | 4290.7 | 4115.9 | 4028.5 | 4011.1 |
| 147.5° | 6064.7 | 5854.9 | 5575.3 | 5295.6 | 5103.4 | 4981.1 | 4649.0 | 4509.2 | 4369.3 | 4220.8 | 4150.9 |
| 150°   | 6047.2 | 5951.1 | 5653.9 | 5435.5 | 5234.5 | 5138.4 | 4902.4 | 4640.2 | 4491.7 | 4386.8 | 4308.2 |
| 152.5° | 6003.5 | 5872.4 | 5697.6 | 5505.4 | 5356.8 | 5295.6 | 5024.7 | 4858.7 | 4701.4 | 4544.1 | 4483.0 |
| 155°   | 5959.8 | 5854.9 | 5723.8 | 5566.5 | 5444.2 | 5365.6 | 5173.3 | 5007.3 | 4893.7 | 4727.6 | 4666.5 |
| 157.5° | 5907.4 | 5837.4 | 5723.8 | 5636.5 | 5496.6 | 5444.2 | 5252.0 | 5138.4 | 5042.2 | 4876.2 | 4797.5 |
| 160°   | 5828.7 | 5785.0 | 5715.1 | 5592.8 | 5531.6 | 5487.9 | 5330.6 | 5243.2 | 5147.1 | 5024.7 | 4963.6 |
| 162.5° | 5750.1 | 5758.8 | 5671.4 | 5645.2 | 5549.1 | 5514.1 | 5409.3 | 5313.1 | 5217.0 | 5147.1 | 5094.7 |
| 165°   | 5688.9 | 5723.8 | 5636.5 | 5549.1 | 5549.1 | 5531.6 | 5418.0 | 5374.3 | 5330.6 | 5252.0 | 5190.8 |
| 167.5° | 5575.3 | 5619.0 | 5619.0 | 5514.1 | 5505.4 | 5531.6 | 5461.7 | 5418.0 | 5383.0 | 5321.9 | 5286.9 |
| 170°   | 5557.8 | 5557.8 | 5496.6 | 5505.4 | 5531.6 | 5470.4 | 5426.7 | 5418.0 | 5418.0 | 5383.0 | 5356.8 |
| 172.5° | 5452.9 | 5505.4 | 5479.2 | 5461.7 | 5435.5 | 5435.5 | 5409.3 | 5418.0 | 5400.5 | 5409.3 | 5400.5 |
| 175°   | 5418.0 | 5426.7 | 5435.5 | 5426.7 | 5400.5 | 5400.5 | 5391.8 | 5400.5 | 5409.3 | 5409.3 | 5391.8 |
| 177.5° | 5365.6 | 5391.8 | 5435.5 | 5391.8 | 5409.3 | 5374.3 | 5365.6 | 5383.0 | 5383.0 | 5391.8 | 5374.3 |
| 180°   | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 |





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**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°  | 262.2  | 279.6  | 288.4  | 297.1  | 305.9  | 279.6  | 279.6  | 253.4  | 235.9  |
| 95°    | 559.3  | 603.0  | 603.0  | 603.0  | 629.2  | 646.7  | 637.9  | 629.2  | 629.2  |
| 97.5°  | 760.3  | 830.2  | 882.6  | 891.3  | 891.3  | 891.3  | 900.1  | 900.1  | 882.6  |
| 100°   | 961.3  | 996.2  | 1031.2 | 1039.9 | 1031.2 | 1031.2 | 1022.4 | 1039.9 | 1031.2 |
| 102.5° | 1153.5 | 1188.5 | 1197.2 | 1205.9 | 1197.2 | 1188.5 | 1171.0 | 1188.5 | 1153.5 |
| 105°   | 1319.5 | 1354.5 | 1345.8 | 1337.0 | 1328.3 | 1310.8 | 1293.3 | 1319.5 | 1310.8 |
| 107.5° | 1503.1 | 1511.8 | 1520.5 | 1529.3 | 1494.3 | 1485.6 | 1485.6 | 1503.1 | 1494.3 |
| 110°   | 1651.6 | 1686.6 | 1677.8 | 1669.1 | 1669.1 | 1651.6 | 1642.9 | 1651.6 | 1642.9 |
| 112.5° | 1808.9 | 1826.4 | 1817.6 | 1817.6 | 1808.9 | 1782.7 | 1756.5 | 1765.2 | 1756.5 |
| 115°   | 1974.9 | 1983.7 | 1974.9 | 1957.5 | 1940.0 | 1922.5 | 1887.6 | 1870.1 | 1861.3 |
| 117.5° | 2149.7 | 2141.0 | 2123.5 | 2114.8 | 2097.3 | 2088.5 | 2036.1 | 2009.9 | 2001.2 |
| 120°   | 2350.7 | 2324.5 | 2289.5 | 2280.8 | 2254.6 | 2245.8 | 2175.9 | 2132.2 | 2123.5 |
| 122.5° | 2595.4 | 2551.7 | 2481.8 | 2446.8 | 2438.1 | 2411.9 | 2324.5 | 2307.0 | 2280.8 |
| 125°   | 2805.1 | 2787.6 | 2744.0 | 2717.7 | 2682.8 | 2604.1 | 2508.0 | 2464.3 | 2481.8 |
| 127.5° | 3006.1 | 2997.4 | 2979.9 | 2944.9 | 2901.2 | 2866.3 | 2787.6 | 2717.7 | 2700.3 |
| 130°   | 3172.1 | 3180.9 | 3154.7 | 3128.5 | 3102.2 | 3067.3 | 2979.9 | 2936.2 | 2936.2 |
| 132.5° | 3329.4 | 3338.2 | 3355.7 | 3285.7 | 3268.3 | 3233.3 | 3154.7 | 3102.2 | 3119.7 |
| 135°   | 3451.8 | 3469.3 | 3443.0 | 3416.8 | 3399.4 | 3364.4 | 3285.7 | 3259.5 | 3268.3 |
| 137.5° | 3617.8 | 3600.3 | 3574.1 | 3556.6 | 3513.0 | 3504.2 | 3443.0 | 3399.4 | 3381.9 |
| 140°   | 3722.7 | 3731.4 | 3731.4 | 3687.7 | 3644.0 | 3626.6 | 3565.4 | 3521.7 | 3530.4 |
| 142.5° | 3862.5 | 3827.5 | 3845.0 | 3801.3 | 3775.1 | 3748.9 | 3670.3 | 3661.5 | 3661.5 |
| 145°   | 3967.4 | 3949.9 | 3941.2 | 3906.2 | 3897.5 | 3845.0 | 3818.8 | 3775.1 | 3801.3 |
| 147.5° | 4081.0 | 4081.0 | 4081.0 | 4002.3 | 3984.8 | 3958.6 | 3932.4 | 3897.5 | 3923.7 |
| 150°   | 4247.0 | 4185.8 | 4168.4 | 4124.7 | 4089.7 | 4072.2 | 4011.1 | 3993.6 | 4019.8 |
| 152.5° | 4378.1 | 4308.2 | 4255.7 | 4229.5 | 4220.8 | 4194.6 | 4159.6 | 4133.4 | 4133.4 |
| 155°   | 4535.4 | 4439.3 | 4439.3 | 4343.1 | 4316.9 | 4299.4 | 4264.5 | 4255.7 | 4264.5 |
| 157.5° | 4701.4 | 4614.0 | 4570.3 | 4517.9 | 4474.2 | 4456.7 | 4413.0 | 4395.6 | 4413.0 |
| 160°   | 4823.8 | 4815.0 | 4718.9 | 4692.7 | 4649.0 | 4622.8 | 4614.0 | 4570.3 | 4570.3 |
| 162.5° | 5016.0 | 4893.7 | 4876.2 | 4850.0 | 4815.0 | 4780.1 | 4762.6 | 4745.1 | 4762.6 |
| 165°   | 5120.9 | 5085.9 | 5042.2 | 5007.3 | 4981.1 | 4972.3 | 4919.9 | 4937.4 | 4928.6 |
| 167.5° | 5243.2 | 5217.0 | 5173.3 | 5147.1 | 5155.8 | 5120.9 | 5120.9 | 5077.2 | 5085.9 |
| 170°   | 5330.6 | 5348.1 | 5295.6 | 5269.4 | 5252.0 | 5252.0 | 5217.0 | 5217.0 | 5234.5 |
| 172.5° | 5391.8 | 5418.0 | 5374.3 | 5356.8 | 5339.3 | 5356.8 | 5321.9 | 5313.1 | 5330.6 |
| 175°   | 5409.3 | 5444.2 | 5409.3 | 5400.5 | 5383.0 | 5435.5 | 5374.3 | 5374.3 | 5339.3 |
| 177.5° | 5391.8 | 5400.5 | 5435.5 | 5383.0 | 5383.0 | 5400.5 | 5409.3 | 5339.3 | 5383.0 |
| 180°   | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 | 5365.6 |

(END OF REPORT)