

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: P508446

Luminaire Tested: **ASYX-X-S3-X-U-F-L40-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P508446  
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-S3-X-U-F-L40-1-UNV-X-X-X-STD  
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.  
(3) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

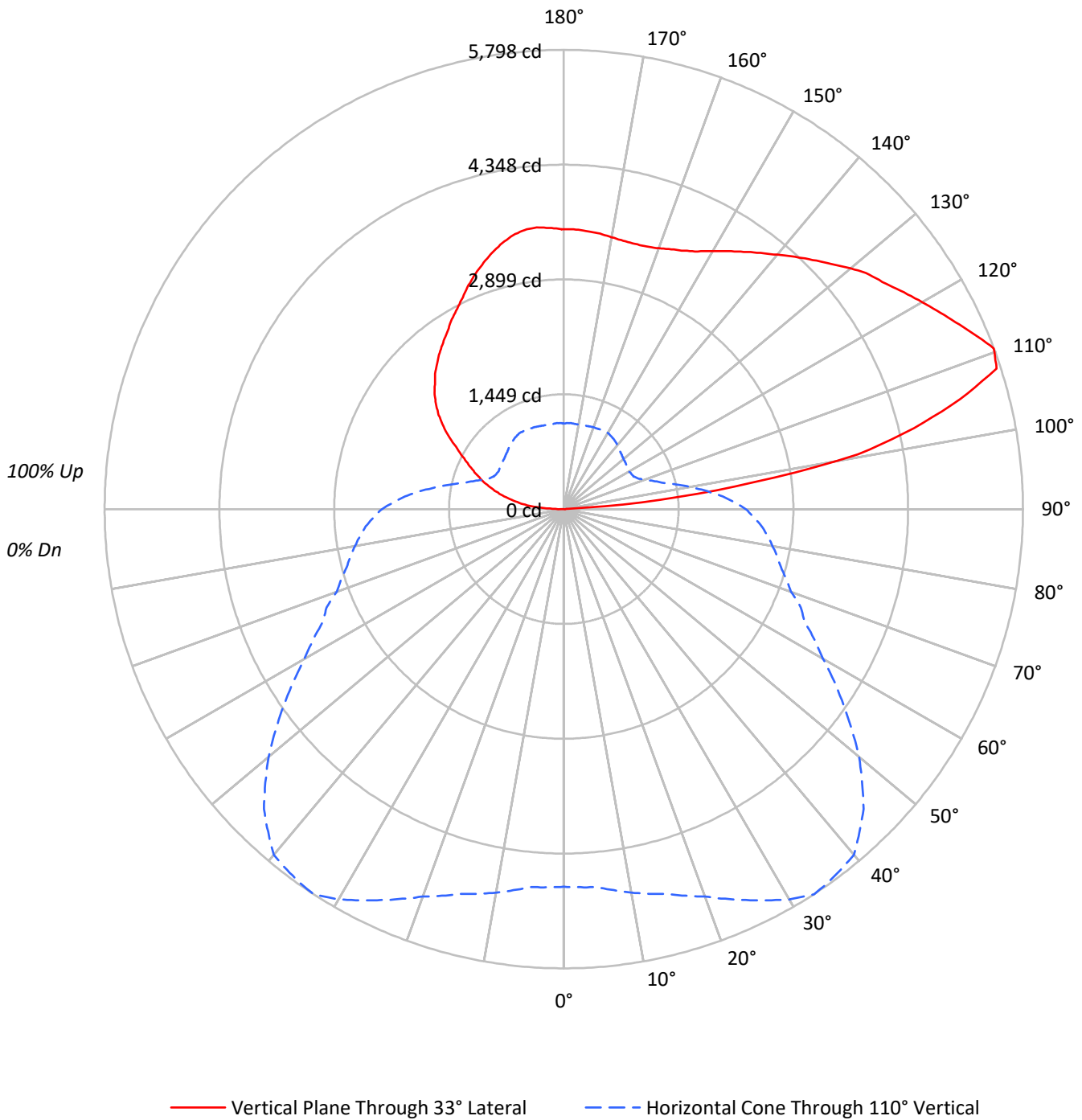
Lumens per Lamp: N/A  
Luminaire Lumens: 16777.4 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
CIE Type: Indirect

Input Watts (W): 160.2  
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: P508446  
CATALOG NUMBER: ASYX-X-S3-X-U-F-L40-1-UNV-X-X-X-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P508446

CATALOG NUMBER: ASYX-X-S3-X-U-F-L40-1-UNV-X-X-X-STD

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| RF  | 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 | 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°  | 81544  | 31287  | 68255 |
| 100° | 206995 | 66624  | 56152 |
| 105° | 201139 | 73750  | 47888 |
| 110° | 200046 | 96400  | 45420 |
| 115° | 174409 | 109299 | 41648 |
| 120° | 144937 | 107421 | 40159 |
| 125° | 123465 | 100125 | 40916 |
| 130° | 105542 | 91786  | 43193 |
| 135° | 90799  | 84373  | 43705 |
| 140° | 79176  | 77882  | 43580 |
| 145° | 69603  | 71823  | 43880 |
| 150° | 61067  | 67077  | 43891 |
| 155° | 56072  | 62910  | 44493 |
| 160° | 51882  | 58653  | 45990 |
| 165° | 50130  | 55521  | 48249 |
| 170° | 49925  | 53029  | 50260 |
| 175° | 51096  | 51344  | 50681 |



TEST NUMBER: P508446

CATALOG NUMBER: ASYX-X-S3-X-U-F-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°  | 609.0   | 3.6       |
| 100°-110° | 2246.1  | 13.4      |
| 110°-120° | 3047.7  | 18.2      |
| 120°-130° | 3034.2  | 18.1      |
| 130°-140° | 2701.1  | 16.1      |
| 140°-150° | 2195.0  | 13.1      |
| 150°-160° | 1611.7  | 9.6       |
| 160°-170° | 994.6   | 5.9       |
| 170°-180° | 337.9   | 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°  | 5902.9  | 35.2      |
| 90°-150°  | 13833.2 | 82.5      |
| 90°-180°  | 16777.0 | 100.0     |
| 0°-180°   | 16777.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 90°  | 0    | 0    | 0    | 0    | 0    |      |
| 95°  | 495  | 731  | 190  | 288  | 414  | 820  |
| 105° | 3627 | 4871 | 1330 | 783  | 864  | 3860 |
| 115° | 5136 | 5286 | 3218 | 1249 | 1226 | 5022 |
| 125° | 4934 | 4934 | 4002 | 1773 | 1635 | 4410 |
| 135° | 4474 | 4491 | 4157 | 2240 | 2153 | 3485 |
| 145° | 3973 | 3984 | 4099 | 2654 | 2504 | 2498 |
| 155° | 3541 | 3662 | 3973 | 3115 | 2810 | 1634 |
| 165° | 3374 | 3495 | 3737 | 3460 | 3247 | 964  |
| 175° | 3547 | 3512 | 3564 | 3564 | 3518 | 333  |
| 180° | 3535 | 3535 | 3535 | 3535 | 3535 |      |



TEST NUMBER: P508446

CATALOG NUMBER: ASYX-X-S3-X-U-F-L40-1-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°  | 28.8   | 28.8   | 28.8   | 34.5   | 40.3   | 40.3   | 51.8   | 57.6   | 51.8   | 74.8   | 86.4   |
| 95°    | 495.2  | 570.0  | 817.6  | 973.0  | 961.5  | 909.7  | 967.3  | 1134.2 | 1220.6 | 1111.2 | 944.2  |
| 97.5°  | 1243.6 | 1289.7 | 1802.1 | 2043.9 | 2257.0 | 2360.6 | 2452.7 | 2377.9 | 2418.2 | 2395.2 | 2182.1 |
| 100°   | 2504.5 | 2654.2 | 2832.7 | 3080.3 | 3385.5 | 3604.2 | 3771.2 | 3903.6 | 3777.0 | 3575.5 | 2988.2 |
| 102.5° | 3207.0 | 3258.8 | 3379.7 | 3506.4 | 3834.6 | 3995.8 | 4162.7 | 4450.6 | 4537.0 | 4496.7 | 4180.0 |
| 105°   | 3627.3 | 3656.1 | 3771.2 | 3961.2 | 4214.6 | 4393.0 | 4600.3 | 4974.6 | 5193.3 | 5216.4 | 5239.4 |
| 107.5° | 4157.0 | 4220.3 | 4358.5 | 4479.4 | 4778.8 | 4986.1 | 5170.3 | 5556.1 | 5746.1 | 5757.6 | 5677.0 |
| 110°   | 4767.3 | 4790.3 | 4917.0 | 5032.1 | 5204.9 | 5325.8 | 5446.7 | 5688.5 | 5797.9 | 5780.6 | 5700.0 |
| 112.5° | 5095.5 | 5124.3 | 5170.3 | 5210.6 | 5291.2 | 5343.0 | 5417.9 | 5573.3 | 5636.7 | 5653.9 | 5573.3 |
| 115°   | 5135.8 | 5135.8 | 5170.3 | 5176.1 | 5268.2 | 5268.2 | 5302.7 | 5452.4 | 5481.2 | 5504.3 | 5458.2 |
| 117.5° | 5101.2 | 5112.7 | 5135.8 | 5124.3 | 5164.6 | 5222.1 | 5210.6 | 5302.7 | 5337.3 | 5320.0 | 5337.3 |
| 120°   | 5049.4 | 5037.9 | 5083.9 | 5060.9 | 5089.7 | 5124.3 | 5101.2 | 5170.3 | 5199.1 | 5187.6 | 5245.2 |
| 122.5° | 4997.6 | 4997.6 | 5014.9 | 5009.1 | 4997.6 | 4986.1 | 4991.8 | 5037.9 | 5066.7 | 5060.9 | 5095.5 |
| 125°   | 4934.3 | 4928.5 | 4922.7 | 4899.7 | 4928.5 | 4911.2 | 4882.4 | 4917.0 | 4940.0 | 4928.5 | 4963.0 |
| 127.5° | 4830.6 | 4836.4 | 4824.9 | 4813.3 | 4778.8 | 4773.0 | 4801.8 | 4784.6 | 4842.1 | 4807.6 | 4842.1 |
| 130°   | 4727.0 | 4727.0 | 4715.5 | 4692.4 | 4680.9 | 4657.9 | 4652.1 | 4663.6 | 4698.2 | 4709.7 | 4657.9 |
| 132.5° | 4646.4 | 4606.1 | 4577.3 | 4560.0 | 4560.0 | 4537.0 | 4525.5 | 4537.0 | 4554.3 | 4583.0 | 4588.8 |
| 135°   | 4473.6 | 4450.6 | 4450.6 | 4427.6 | 4462.1 | 4410.3 | 4398.8 | 4416.1 | 4421.8 | 4421.8 | 4456.4 |
| 137.5° | 4375.8 | 4318.2 | 4295.2 | 4289.4 | 4283.6 | 4266.4 | 4266.4 | 4289.4 | 4295.2 | 4289.4 | 4318.2 |
| 140°   | 4226.1 | 4162.7 | 4185.8 | 4157.0 | 4162.7 | 4133.9 | 4145.5 | 4145.5 | 4168.5 | 4168.5 | 4197.3 |
| 142.5° | 4139.7 | 4047.6 | 4036.1 | 4018.8 | 4024.6 | 4013.0 | 4070.6 | 4030.3 | 4053.3 | 4093.6 | 4076.4 |
| 145°   | 3972.7 | 3897.9 | 3915.2 | 3897.9 | 3903.6 | 3892.1 | 3920.9 | 3915.2 | 3943.9 | 3938.2 | 3967.0 |
| 147.5° | 3794.2 | 3788.5 | 3794.2 | 3782.7 | 3794.2 | 3782.7 | 3817.3 | 3811.5 | 3840.3 | 3857.6 | 3863.3 |
| 150°   | 3684.9 | 3661.8 | 3667.6 | 3679.1 | 3667.6 | 3690.6 | 3690.6 | 3713.6 | 3742.4 | 3748.2 | 3771.2 |
| 152.5° | 3569.7 | 3563.9 | 3592.7 | 3575.5 | 3587.0 | 3587.0 | 3604.2 | 3610.0 | 3650.3 | 3656.1 | 3713.6 |
| 155°   | 3540.9 | 3489.1 | 3489.1 | 3483.3 | 3512.1 | 3512.1 | 3535.2 | 3569.7 | 3587.0 | 3615.8 | 3621.5 |
| 157.5° | 3437.3 | 3431.5 | 3431.5 | 3454.6 | 3425.8 | 3460.3 | 3512.1 | 3494.9 | 3540.9 | 3546.7 | 3569.7 |
| 160°   | 3397.0 | 3379.7 | 3391.2 | 3402.7 | 3402.7 | 3431.5 | 3471.8 | 3466.1 | 3494.9 | 3529.4 | 3535.2 |
| 162.5° | 3420.0 | 3362.4 | 3368.2 | 3397.0 | 3385.5 | 3425.8 | 3431.5 | 3443.0 | 3471.8 | 3483.3 | 3517.9 |
| 165°   | 3373.9 | 3356.7 | 3345.2 | 3356.7 | 3391.2 | 3408.5 | 3425.8 | 3437.3 | 3466.1 | 3471.8 | 3489.1 |
| 167.5° | 3391.2 | 3385.5 | 3385.5 | 3397.0 | 3420.0 | 3420.0 | 3448.8 | 3443.0 | 3471.8 | 3471.8 | 3483.3 |
| 170°   | 3425.8 | 3408.5 | 3420.0 | 3443.0 | 3402.7 | 3466.1 | 3460.3 | 3443.0 | 3489.1 | 3489.1 | 3506.4 |
| 172.5° | 3471.8 | 3454.6 | 3460.3 | 3460.3 | 3460.3 | 3494.9 | 3500.6 | 3506.4 | 3512.1 | 3506.4 | 3506.4 |
| 175°   | 3546.7 | 3500.6 | 3494.9 | 3494.9 | 3506.4 | 3506.4 | 3517.9 | 3489.1 | 3523.6 | 3523.6 | 3517.9 |
| 177.5° | 3529.4 | 3512.1 | 3540.9 | 3512.1 | 3500.6 | 3523.6 | 3540.9 | 3517.9 | 3535.2 | 3517.9 | 3535.2 |
| 180°   | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 |



TEST NUMBER: P508446

CATALOG NUMBER: ASYX-X-S3-X-U-F-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°  | 74.8   | 74.8   | 74.8   | 69.1   | 63.3   | 63.3   | 63.3   | 63.3   | 57.6   | 51.8   | 51.8   |
| 95°    | 731.2  | 581.5  | 529.7  | 437.6  | 368.5  | 339.7  | 293.6  | 293.6  | 218.8  | 178.5  | 190.0  |
| 97.5°  | 1836.7 | 1427.9 | 1134.2 | 857.9  | 817.6  | 765.8  | 760.0  | 644.8  | 570.0  | 518.2  | 449.1  |
| 100°   | 2383.6 | 1957.6 | 1698.5 | 1554.5 | 1364.5 | 1278.2 | 1214.9 | 1093.9 | 1019.1 | 915.5  | 806.1  |
| 102.5° | 3540.9 | 2942.1 | 2435.5 | 2009.4 | 1721.5 | 1600.6 | 1520.0 | 1393.3 | 1301.2 | 1197.6 | 1059.4 |
| 105°   | 4870.9 | 4030.3 | 3183.9 | 2544.9 | 2159.1 | 2003.6 | 1865.5 | 1738.8 | 1617.9 | 1456.7 | 1330.0 |
| 107.5° | 5227.9 | 4617.6 | 3978.5 | 3264.6 | 2729.1 | 2573.6 | 2412.4 | 2199.4 | 2038.2 | 1900.0 | 1681.2 |
| 110°   | 5354.6 | 4865.2 | 4312.4 | 3782.7 | 3350.9 | 3241.5 | 3051.5 | 2838.5 | 2677.3 | 2510.3 | 2297.3 |
| 112.5° | 5302.7 | 4997.6 | 4554.3 | 4082.1 | 3730.9 | 3621.5 | 3483.3 | 3350.9 | 3264.6 | 3137.9 | 2855.8 |
| 115°   | 5285.5 | 5037.9 | 4727.0 | 4306.7 | 3990.0 | 3869.1 | 3759.7 | 3638.8 | 3615.8 | 3529.4 | 3218.5 |
| 117.5° | 5210.6 | 5043.6 | 4807.6 | 4467.9 | 4185.8 | 4105.2 | 3995.8 | 3897.9 | 3886.4 | 3800.0 | 3529.4 |
| 120°   | 5158.8 | 5020.6 | 4819.1 | 4594.6 | 4352.7 | 4266.4 | 4174.2 | 4099.4 | 4064.9 | 4001.5 | 3742.4 |
| 122.5° | 5037.9 | 4986.1 | 4830.6 | 4640.6 | 4421.8 | 4381.5 | 4295.2 | 4168.5 | 4226.1 | 4157.0 | 3909.4 |
| 125°   | 4934.3 | 4905.5 | 4865.2 | 4634.9 | 4479.4 | 4427.6 | 4364.3 | 4289.4 | 4306.7 | 4260.6 | 4001.5 |
| 127.5° | 4824.9 | 4819.1 | 4790.3 | 4652.1 | 4508.2 | 4485.2 | 4410.3 | 4352.7 | 4341.2 | 4295.2 | 4064.9 |
| 130°   | 4738.5 | 4732.7 | 4692.4 | 4600.3 | 4508.2 | 4502.4 | 4427.6 | 4381.5 | 4375.8 | 4335.5 | 4110.9 |
| 132.5° | 4611.8 | 4611.8 | 4634.9 | 4542.7 | 4485.2 | 4467.9 | 4433.3 | 4375.8 | 4393.0 | 4306.7 | 4133.9 |
| 135°   | 4490.9 | 4496.7 | 4513.9 | 4467.9 | 4502.4 | 4439.1 | 4404.6 | 4329.7 | 4364.3 | 4329.7 | 4157.0 |
| 137.5° | 4352.7 | 4370.0 | 4404.6 | 4387.3 | 4404.6 | 4410.3 | 4364.3 | 4347.0 | 4347.0 | 4312.4 | 4151.2 |
| 140°   | 4185.8 | 4254.9 | 4318.2 | 4312.4 | 4347.0 | 4341.2 | 4323.9 | 4243.3 | 4318.2 | 4295.2 | 4157.0 |
| 142.5° | 4110.9 | 4151.2 | 4226.1 | 4208.8 | 4283.6 | 4283.6 | 4272.1 | 4266.4 | 4283.6 | 4243.3 | 4133.9 |
| 145°   | 3984.2 | 4047.6 | 4105.2 | 4139.7 | 4185.8 | 4231.8 | 4214.6 | 4226.1 | 4231.8 | 4231.8 | 4099.4 |
| 147.5° | 3903.6 | 3972.7 | 4047.6 | 4059.1 | 4139.7 | 4151.2 | 4157.0 | 4174.2 | 4208.8 | 4162.7 | 4110.9 |
| 150°   | 3817.3 | 3863.3 | 3949.7 | 3984.2 | 4070.6 | 4087.9 | 4082.1 | 4105.2 | 4162.7 | 4128.2 | 4047.6 |
| 152.5° | 3684.9 | 3782.7 | 3857.6 | 3909.4 | 3972.7 | 4013.0 | 4018.8 | 4018.8 | 4070.6 | 4070.6 | 4024.6 |
| 155°   | 3661.8 | 3713.6 | 3782.7 | 3834.6 | 3903.6 | 3943.9 | 3949.7 | 3949.7 | 4001.5 | 3984.2 | 3972.7 |
| 157.5° | 3610.0 | 3679.1 | 3736.7 | 3753.9 | 3840.3 | 3874.9 | 3874.9 | 3886.4 | 3932.4 | 3943.9 | 3903.6 |
| 160°   | 3575.5 | 3610.0 | 3679.1 | 3730.9 | 3777.0 | 3817.3 | 3823.0 | 3834.6 | 3863.3 | 3857.6 | 3840.3 |
| 162.5° | 3523.6 | 3575.5 | 3638.8 | 3667.6 | 3719.4 | 3759.7 | 3753.9 | 3753.9 | 3805.8 | 3817.3 | 3794.2 |
| 165°   | 3494.9 | 3552.4 | 3627.3 | 3644.6 | 3679.1 | 3702.1 | 3696.4 | 3713.6 | 3759.7 | 3748.2 | 3736.7 |
| 167.5° | 3506.4 | 3535.2 | 3598.5 | 3592.7 | 3633.0 | 3650.3 | 3650.3 | 3638.8 | 3667.6 | 3627.3 | 3661.8 |
| 170°   | 3523.6 | 3523.6 | 3558.2 | 3569.7 | 3604.2 | 3621.5 | 3604.2 | 3604.2 | 3621.5 | 3633.0 | 3638.8 |
| 172.5° | 3529.4 | 3523.6 | 3552.4 | 3546.7 | 3558.2 | 3587.0 | 3569.7 | 3546.7 | 3581.2 | 3604.2 | 3575.5 |
| 175°   | 3512.1 | 3517.9 | 3563.9 | 3552.4 | 3535.2 | 3563.9 | 3535.2 | 3529.4 | 3581.2 | 3575.5 | 3563.9 |
| 177.5° | 3494.9 | 3494.9 | 3523.6 | 3500.6 | 3540.9 | 3540.9 | 3512.1 | 3512.1 | 3569.7 | 3529.4 | 3517.9 |
| 180°   | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 |



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CATALOG NUMBER: ASYX-X-S3-X-U-F-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°  | 57.6   | 63.3   | 69.1   | 80.6   | 86.4   | 92.1   | 103.6  | 115.2  | 132.4  | 132.4  | 155.5  |
| 95°    | 184.2  | 190.0  | 190.0  | 201.5  | 207.3  | 207.3  | 213.0  | 236.1  | 259.1  | 287.9  | 339.7  |
| 97.5°  | 391.5  | 345.5  | 333.9  | 333.9  | 339.7  | 339.7  | 345.5  | 357.0  | 374.2  | 408.8  | 460.6  |
| 100°   | 690.9  | 587.3  | 512.4  | 472.1  | 460.6  | 454.8  | 460.6  | 460.6  | 489.4  | 535.5  | 593.0  |
| 102.5° | 903.9  | 765.8  | 639.1  | 581.5  | 558.5  | 564.2  | 558.5  | 570.0  | 610.3  | 650.6  | 713.9  |
| 105°   | 1140.0 | 961.5  | 800.3  | 713.9  | 679.4  | 673.6  | 673.6  | 685.2  | 731.2  | 783.0  | 829.1  |
| 107.5° | 1462.4 | 1237.9 | 1001.8 | 875.2  | 823.3  | 811.8  | 811.8  | 829.1  | 857.9  | 892.4  | 944.2  |
| 110°   | 1980.6 | 1612.1 | 1283.9 | 1082.4 | 1013.3 | 973.0  | 950.0  | 967.3  | 984.5  | 1013.3 | 1053.6 |
| 112.5° | 2464.2 | 2009.4 | 1577.6 | 1272.4 | 1180.3 | 1117.0 | 1082.4 | 1082.4 | 1105.5 | 1128.5 | 1157.3 |
| 115°   | 2798.2 | 2291.5 | 1825.2 | 1468.2 | 1335.8 | 1278.2 | 1203.3 | 1209.1 | 1226.4 | 1249.4 | 1266.7 |
| 117.5° | 3097.6 | 2556.4 | 2032.4 | 1652.4 | 1502.7 | 1410.6 | 1335.8 | 1318.5 | 1353.0 | 1381.8 | 1393.3 |
| 120°   | 3310.6 | 2786.7 | 2239.7 | 1842.4 | 1669.7 | 1566.1 | 1462.4 | 1445.2 | 1479.7 | 1485.5 | 1543.0 |
| 122.5° | 3489.1 | 2953.6 | 2418.2 | 2009.4 | 1825.2 | 1738.8 | 1612.1 | 1589.1 | 1612.1 | 1652.4 | 1698.5 |
| 125°   | 3604.2 | 3103.3 | 2579.4 | 2164.9 | 1992.1 | 1877.0 | 1744.5 | 1727.3 | 1744.5 | 1773.3 | 1825.2 |
| 127.5° | 3696.4 | 3224.2 | 2734.9 | 2326.1 | 2124.5 | 2032.4 | 1900.0 | 1865.5 | 1888.5 | 1900.0 | 1957.6 |
| 130°   | 3765.5 | 3362.4 | 2878.8 | 2481.5 | 2303.0 | 2210.9 | 2032.4 | 1997.9 | 2009.4 | 2038.2 | 2067.0 |
| 132.5° | 3834.6 | 3448.8 | 3022.7 | 2642.7 | 2470.0 | 2366.4 | 2193.6 | 2118.8 | 2124.5 | 2147.6 | 2176.4 |
| 135°   | 3880.6 | 3540.9 | 3172.4 | 2803.9 | 2613.9 | 2533.3 | 2349.1 | 2274.2 | 2245.5 | 2239.7 | 2274.2 |
| 137.5° | 3926.7 | 3627.3 | 3287.6 | 2953.6 | 2792.4 | 2700.3 | 2481.5 | 2395.2 | 2366.4 | 2360.6 | 2372.1 |
| 140°   | 3967.0 | 3702.1 | 3391.2 | 3114.9 | 2953.6 | 2844.2 | 2642.7 | 2533.3 | 2487.3 | 2464.2 | 2475.8 |
| 142.5° | 3984.2 | 3765.5 | 3500.6 | 3287.6 | 3091.8 | 2965.2 | 2798.2 | 2688.8 | 2590.9 | 2562.1 | 2539.1 |
| 145°   | 3995.8 | 3863.3 | 3604.2 | 3397.0 | 3247.3 | 3172.4 | 2970.9 | 2827.0 | 2711.8 | 2654.2 | 2642.7 |
| 147.5° | 3995.8 | 3857.6 | 3673.3 | 3489.1 | 3362.4 | 3281.8 | 3063.0 | 2970.9 | 2878.8 | 2780.9 | 2734.9 |
| 150°   | 3984.2 | 3920.9 | 3725.2 | 3581.2 | 3448.8 | 3385.5 | 3230.0 | 3057.3 | 2959.4 | 2890.3 | 2838.5 |
| 152.5° | 3955.5 | 3869.1 | 3753.9 | 3627.3 | 3529.4 | 3489.1 | 3310.6 | 3201.2 | 3097.6 | 2993.9 | 2953.6 |
| 155°   | 3926.7 | 3857.6 | 3771.2 | 3667.6 | 3587.0 | 3535.2 | 3408.5 | 3299.1 | 3224.2 | 3114.9 | 3074.6 |
| 157.5° | 3892.1 | 3846.1 | 3771.2 | 3713.6 | 3621.5 | 3587.0 | 3460.3 | 3385.5 | 3322.1 | 3212.7 | 3160.9 |
| 160°   | 3840.3 | 3811.5 | 3765.5 | 3684.9 | 3644.6 | 3615.8 | 3512.1 | 3454.6 | 3391.2 | 3310.6 | 3270.3 |
| 162.5° | 3788.5 | 3794.2 | 3736.7 | 3719.4 | 3656.1 | 3633.0 | 3563.9 | 3500.6 | 3437.3 | 3391.2 | 3356.7 |
| 165°   | 3748.2 | 3771.2 | 3713.6 | 3656.1 | 3656.1 | 3644.6 | 3569.7 | 3540.9 | 3512.1 | 3460.3 | 3420.0 |
| 167.5° | 3673.3 | 3702.1 | 3702.1 | 3633.0 | 3627.3 | 3644.6 | 3598.5 | 3569.7 | 3546.7 | 3506.4 | 3483.3 |
| 170°   | 3661.8 | 3661.8 | 3621.5 | 3627.3 | 3644.6 | 3604.2 | 3575.5 | 3569.7 | 3569.7 | 3546.7 | 3529.4 |
| 172.5° | 3592.7 | 3627.3 | 3610.0 | 3598.5 | 3581.2 | 3581.2 | 3563.9 | 3569.7 | 3558.2 | 3563.9 | 3558.2 |
| 175°   | 3569.7 | 3575.5 | 3581.2 | 3575.5 | 3558.2 | 3558.2 | 3552.4 | 3558.2 | 3563.9 | 3563.9 | 3552.4 |
| 177.5° | 3535.2 | 3552.4 | 3581.2 | 3552.4 | 3563.9 | 3540.9 | 3535.2 | 3546.7 | 3546.7 | 3552.4 | 3540.9 |
| 180°   | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 |





TEST NUMBER: P508446

CATALOG NUMBER: ASYX-X-S3-X-U-F-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°  | 172.7  | 184.2  | 190.0  | 195.8  | 201.5  | 184.2  | 184.2  | 167.0  | 155.5  |
| 95°    | 368.5  | 397.3  | 397.3  | 397.3  | 414.5  | 426.1  | 420.3  | 414.5  | 414.5  |
| 97.5°  | 500.9  | 547.0  | 581.5  | 587.3  | 587.3  | 587.3  | 593.0  | 593.0  | 581.5  |
| 100°   | 633.3  | 656.4  | 679.4  | 685.2  | 679.4  | 679.4  | 673.6  | 685.2  | 679.4  |
| 102.5° | 760.0  | 783.0  | 788.8  | 794.5  | 788.8  | 783.0  | 771.5  | 783.0  | 760.0  |
| 105°   | 869.4  | 892.4  | 886.7  | 880.9  | 875.2  | 863.6  | 852.1  | 869.4  | 863.6  |
| 107.5° | 990.3  | 996.1  | 1001.8 | 1007.6 | 984.5  | 978.8  | 978.8  | 990.3  | 984.5  |
| 110°   | 1088.2 | 1111.2 | 1105.5 | 1099.7 | 1099.7 | 1088.2 | 1082.4 | 1088.2 | 1082.4 |
| 112.5° | 1191.8 | 1203.3 | 1197.6 | 1197.6 | 1191.8 | 1174.5 | 1157.3 | 1163.0 | 1157.3 |
| 115°   | 1301.2 | 1307.0 | 1301.2 | 1289.7 | 1278.2 | 1266.7 | 1243.6 | 1232.1 | 1226.4 |
| 117.5° | 1416.4 | 1410.6 | 1399.1 | 1393.3 | 1381.8 | 1376.1 | 1341.5 | 1324.2 | 1318.5 |
| 120°   | 1548.8 | 1531.5 | 1508.5 | 1502.7 | 1485.5 | 1479.7 | 1433.6 | 1404.9 | 1399.1 |
| 122.5° | 1710.0 | 1681.2 | 1635.2 | 1612.1 | 1606.4 | 1589.1 | 1531.5 | 1520.0 | 1502.7 |
| 125°   | 1848.2 | 1836.7 | 1807.9 | 1790.6 | 1767.6 | 1715.8 | 1652.4 | 1623.6 | 1635.2 |
| 127.5° | 1980.6 | 1974.9 | 1963.3 | 1940.3 | 1911.5 | 1888.5 | 1836.7 | 1790.6 | 1779.1 |
| 130°   | 2090.0 | 2095.8 | 2078.5 | 2061.2 | 2043.9 | 2020.9 | 1963.3 | 1934.5 | 1934.5 |
| 132.5° | 2193.6 | 2199.4 | 2210.9 | 2164.9 | 2153.3 | 2130.3 | 2078.5 | 2043.9 | 2055.5 |
| 135°   | 2274.2 | 2285.8 | 2268.5 | 2251.2 | 2239.7 | 2216.7 | 2164.9 | 2147.6 | 2153.3 |
| 137.5° | 2383.6 | 2372.1 | 2354.9 | 2343.3 | 2314.5 | 2308.8 | 2268.5 | 2239.7 | 2228.2 |
| 140°   | 2452.7 | 2458.5 | 2458.5 | 2429.7 | 2400.9 | 2389.4 | 2349.1 | 2320.3 | 2326.1 |
| 142.5° | 2544.9 | 2521.8 | 2533.3 | 2504.5 | 2487.3 | 2470.0 | 2418.2 | 2412.4 | 2412.4 |
| 145°   | 2613.9 | 2602.4 | 2596.7 | 2573.6 | 2567.9 | 2533.3 | 2516.1 | 2487.3 | 2504.5 |
| 147.5° | 2688.8 | 2688.8 | 2688.8 | 2637.0 | 2625.5 | 2608.2 | 2590.9 | 2567.9 | 2585.2 |
| 150°   | 2798.2 | 2757.9 | 2746.4 | 2717.6 | 2694.6 | 2683.0 | 2642.7 | 2631.2 | 2648.5 |
| 152.5° | 2884.6 | 2838.5 | 2803.9 | 2786.7 | 2780.9 | 2763.6 | 2740.6 | 2723.3 | 2723.3 |
| 155°   | 2988.2 | 2924.9 | 2924.9 | 2861.5 | 2844.2 | 2832.7 | 2809.7 | 2803.9 | 2809.7 |
| 157.5° | 3097.6 | 3040.0 | 3011.2 | 2976.7 | 2947.9 | 2936.4 | 2907.6 | 2896.1 | 2907.6 |
| 160°   | 3178.2 | 3172.4 | 3109.1 | 3091.8 | 3063.0 | 3045.8 | 3040.0 | 3011.2 | 3011.2 |
| 162.5° | 3304.9 | 3224.2 | 3212.7 | 3195.5 | 3172.4 | 3149.4 | 3137.9 | 3126.4 | 3137.9 |
| 165°   | 3373.9 | 3350.9 | 3322.1 | 3299.1 | 3281.8 | 3276.1 | 3241.5 | 3253.0 | 3247.3 |
| 167.5° | 3454.6 | 3437.3 | 3408.5 | 3391.2 | 3397.0 | 3373.9 | 3373.9 | 3345.2 | 3350.9 |
| 170°   | 3512.1 | 3523.6 | 3489.1 | 3471.8 | 3460.3 | 3460.3 | 3437.3 | 3437.3 | 3448.8 |
| 172.5° | 3552.4 | 3569.7 | 3540.9 | 3529.4 | 3517.9 | 3529.4 | 3506.4 | 3500.6 | 3512.1 |
| 175°   | 3563.9 | 3587.0 | 3563.9 | 3558.2 | 3546.7 | 3581.2 | 3540.9 | 3540.9 | 3517.9 |
| 177.5° | 3552.4 | 3558.2 | 3581.2 | 3546.7 | 3546.7 | 3558.2 | 3563.9 | 3517.9 | 3546.7 |
| 180°   | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 | 3535.2 |

(END OF REPORT)