

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: P508444

Luminaire Tested: **ASYX-X-S3-X-U-F-L30-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508444
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-L30-1-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

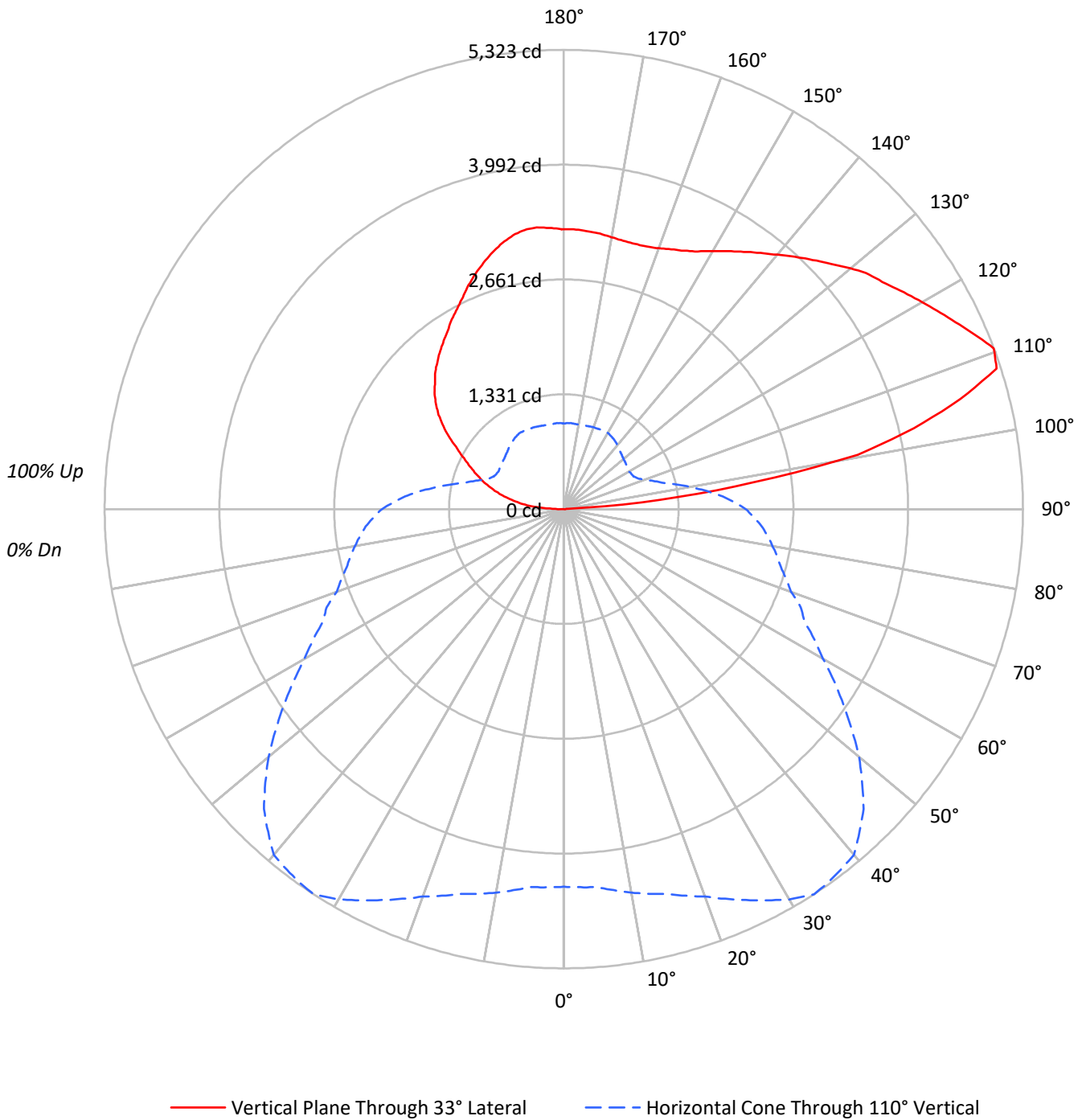
Lumens per Lamp: N/A
Luminaire Lumens: 15402.2 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
N/A
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
CIE Type: Indirect

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: P508444
CATALOG NUMBER: ASYX-X-S3-X-U-F-L30-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P508444

CATALOG NUMBER: ASYX-X-S3-X-U-F-L30-1-UNV-X-X-X-STD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|----|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 |
| RC | 80 | | | | | | | | | 50 | | | | | | | | | 30 | | | | | | | | | 10 | | | | | | | | | 0 | | | | | | | | | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9 | 9 | 8 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8 | 7 | 7 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 72 | 63 | 57 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7 | 6 | 6 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6 | 6 | 5 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5 | 5 | 4 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5 | 4 | 4 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4 | 4 | 3 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9 | 4 | 3 | 3 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9 | 8 | 4 | 3 | 3 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8 | 7 | 3 | 3 | 2 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|------|--------|--------|-------|
| 95° | 74859 | 28718 | 62673 |
| 100° | 190035 | 61160 | 51548 |
| 105° | 184653 | 67706 | 43962 |
| 110° | 183647 | 88498 | 41698 |
| 115° | 160112 | 100340 | 38232 |
| 120° | 133056 | 98618 | 36867 |
| 125° | 113344 | 91917 | 37560 |
| 130° | 96890 | 84264 | 39654 |
| 135° | 83358 | 77456 | 40122 |
| 140° | 72686 | 71497 | 40007 |
| 145° | 63899 | 65936 | 40285 |
| 150° | 56060 | 61579 | 40293 |
| 155° | 51477 | 57754 | 40846 |
| 160° | 47629 | 53845 | 42221 |
| 165° | 46022 | 50969 | 44294 |
| 170° | 45833 | 48682 | 46140 |
| 175° | 46908 | 47136 | 46526 |



TEST NUMBER: P508444

CATALOG NUMBER: ASYX-X-S3-X-U-F-L30-1-UNV-X-X-X-STD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 0.0 | 0.0 |
| 10°-20° | 0.0 | 0.0 |
| 20°-30° | 0.0 | 0.0 |
| 30°-40° | 0.0 | 0.0 |
| 40°-50° | 0.0 | 0.0 |
| 50°-60° | 0.0 | 0.0 |
| 60°-70° | 0.0 | 0.0 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 0.0 | 0.0 |
| 90°-100° | 559.1 | 3.6 |
| 100°-110° | 2062.0 | 13.4 |
| 110°-120° | 2797.9 | 18.2 |
| 120°-130° | 2785.5 | 18.1 |
| 130°-140° | 2479.7 | 16.1 |
| 140°-150° | 2015.1 | 13.1 |
| 150°-160° | 1479.6 | 9.6 |
| 160°-170° | 913.1 | 5.9 |
| 170°-180° | 310.2 | 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° | 5419.0 | 35.2 |
| 90°-150° | 12699.3 | 82.5 |
| 90°-180° | 15402.0 | 100.0 |
| 0°-180° | 15402.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 90° | 0 | 0 | 0 | 0 | 0 | |
| 95° | 455 | 671 | 174 | 264 | 381 | 753 |
| 105° | 3330 | 4472 | 1221 | 719 | 793 | 3544 |
| 115° | 4715 | 4852 | 2955 | 1147 | 1126 | 4610 |
| 125° | 4530 | 4530 | 3674 | 1628 | 1501 | 4049 |
| 135° | 4107 | 4123 | 3816 | 2056 | 1977 | 3199 |
| 145° | 3647 | 3658 | 3763 | 2437 | 2299 | 2294 |
| 155° | 3251 | 3362 | 3647 | 2860 | 2579 | 1500 |
| 165° | 3097 | 3208 | 3430 | 3177 | 2981 | 885 |
| 175° | 3256 | 3224 | 3272 | 3272 | 3230 | 306 |
| 180° | 3245 | 3245 | 3245 | 3245 | 3245 | |



TEST NUMBER: P508444

CATALOG NUMBER: ASYX-X-S3-X-U-F-L30-1-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° | 26.4 | 26.4 | 26.4 | 31.7 | 37.0 | 37.0 | 47.6 | 52.9 | 47.6 | 68.7 | 79.3 |
| 95° | 454.6 | 523.3 | 750.6 | 893.3 | 882.7 | 835.1 | 888.0 | 1041.3 | 1120.6 | 1020.1 | 866.8 |
| 97.5° | 1141.7 | 1184.0 | 1654.4 | 1876.4 | 2072.0 | 2167.1 | 2251.7 | 2183.0 | 2220.0 | 2198.8 | 2003.3 |
| 100° | 2299.3 | 2436.7 | 2600.5 | 2827.8 | 3108.0 | 3308.8 | 3462.1 | 3583.7 | 3467.4 | 3282.4 | 2743.3 |
| 102.5° | 2944.1 | 2991.7 | 3102.7 | 3219.0 | 3520.2 | 3668.2 | 3821.5 | 4085.8 | 4165.1 | 4128.1 | 3837.4 |
| 105° | 3330.0 | 3356.4 | 3462.1 | 3636.5 | 3869.1 | 4033.0 | 4223.2 | 4566.8 | 4767.7 | 4788.8 | 4809.9 |
| 107.5° | 3816.2 | 3874.4 | 4001.2 | 4112.2 | 4387.1 | 4577.4 | 4746.5 | 5100.7 | 5275.1 | 5285.7 | 5211.7 |
| 110° | 4376.5 | 4397.7 | 4513.9 | 4619.7 | 4778.2 | 4889.2 | 5000.2 | 5222.2 | 5322.7 | 5306.8 | 5232.8 |
| 112.5° | 4677.8 | 4704.2 | 4746.5 | 4783.5 | 4857.5 | 4905.1 | 4973.8 | 5116.5 | 5174.7 | 5190.5 | 5116.5 |
| 115° | 4714.8 | 4714.8 | 4746.5 | 4751.8 | 4836.4 | 4836.4 | 4868.1 | 5005.5 | 5031.9 | 5053.1 | 5010.8 |
| 117.5° | 4683.1 | 4693.7 | 4714.8 | 4704.2 | 4741.2 | 4794.1 | 4783.5 | 4868.1 | 4899.8 | 4883.9 | 4899.8 |
| 120° | 4635.5 | 4624.9 | 4667.2 | 4646.1 | 4672.5 | 4704.2 | 4683.1 | 4746.5 | 4772.9 | 4762.4 | 4815.2 |
| 122.5° | 4587.9 | 4587.9 | 4603.8 | 4598.5 | 4587.9 | 4577.4 | 4582.7 | 4624.9 | 4651.4 | 4646.1 | 4677.8 |
| 125° | 4529.8 | 4524.5 | 4519.2 | 4498.1 | 4524.5 | 4508.7 | 4482.2 | 4513.9 | 4535.1 | 4524.5 | 4556.2 |
| 127.5° | 4434.7 | 4439.9 | 4429.4 | 4418.8 | 4387.1 | 4381.8 | 4408.2 | 4392.4 | 4445.2 | 4413.5 | 4445.2 |
| 130° | 4339.5 | 4339.5 | 4328.9 | 4307.8 | 4297.2 | 4276.1 | 4270.8 | 4281.4 | 4313.1 | 4323.7 | 4276.1 |
| 132.5° | 4265.5 | 4228.5 | 4202.1 | 4186.2 | 4186.2 | 4165.1 | 4154.5 | 4165.1 | 4181.0 | 4207.4 | 4212.7 |
| 135° | 4107.0 | 4085.8 | 4085.8 | 4064.7 | 4096.4 | 4048.8 | 4038.2 | 4054.1 | 4059.4 | 4059.4 | 4091.1 |
| 137.5° | 4017.1 | 3964.2 | 3943.1 | 3937.8 | 3932.5 | 3916.7 | 3916.7 | 3937.8 | 3943.1 | 3937.8 | 3964.2 |
| 140° | 3879.7 | 3821.5 | 3842.7 | 3816.2 | 3821.5 | 3795.1 | 3805.7 | 3805.7 | 3826.8 | 3826.8 | 3853.2 |
| 142.5° | 3800.4 | 3715.8 | 3705.2 | 3689.4 | 3694.7 | 3684.1 | 3737.0 | 3700.0 | 3721.1 | 3758.1 | 3742.2 |
| 145° | 3647.1 | 3578.4 | 3594.2 | 3578.4 | 3583.7 | 3573.1 | 3599.5 | 3594.2 | 3620.7 | 3615.4 | 3641.8 |
| 147.5° | 3483.2 | 3478.0 | 3483.2 | 3472.7 | 3483.2 | 3472.7 | 3504.4 | 3499.1 | 3525.5 | 3541.4 | 3546.7 |
| 150° | 3382.8 | 3361.7 | 3367.0 | 3377.5 | 3367.0 | 3388.1 | 3388.1 | 3409.2 | 3435.7 | 3441.0 | 3462.1 |
| 152.5° | 3277.1 | 3271.8 | 3298.2 | 3282.4 | 3293.0 | 3293.0 | 3308.8 | 3314.1 | 3351.1 | 3356.4 | 3409.2 |
| 155° | 3250.7 | 3203.1 | 3203.1 | 3197.8 | 3224.2 | 3224.2 | 3245.4 | 3277.1 | 3293.0 | 3319.4 | 3324.7 |
| 157.5° | 3155.5 | 3150.2 | 3150.2 | 3171.4 | 3145.0 | 3176.7 | 3224.2 | 3208.4 | 3250.7 | 3256.0 | 3277.1 |
| 160° | 3118.5 | 3102.7 | 3113.2 | 3123.8 | 3123.8 | 3150.2 | 3187.2 | 3182.0 | 3208.4 | 3240.1 | 3245.4 |
| 162.5° | 3139.7 | 3086.8 | 3092.1 | 3118.5 | 3108.0 | 3145.0 | 3150.2 | 3160.8 | 3187.2 | 3197.8 | 3229.5 |
| 165° | 3097.4 | 3081.5 | 3071.0 | 3081.5 | 3113.2 | 3129.1 | 3145.0 | 3155.5 | 3182.0 | 3187.2 | 3203.1 |
| 167.5° | 3113.2 | 3108.0 | 3108.0 | 3118.5 | 3139.7 | 3139.7 | 3166.1 | 3160.8 | 3187.2 | 3187.2 | 3197.8 |
| 170° | 3145.0 | 3129.1 | 3139.7 | 3160.8 | 3123.8 | 3182.0 | 3176.7 | 3160.8 | 3203.1 | 3203.1 | 3219.0 |
| 172.5° | 3187.2 | 3171.4 | 3176.7 | 3176.7 | 3176.7 | 3208.4 | 3213.7 | 3219.0 | 3224.2 | 3219.0 | 3219.0 |
| 175° | 3256.0 | 3213.7 | 3208.4 | 3208.4 | 3219.0 | 3219.0 | 3229.5 | 3203.1 | 3234.8 | 3234.8 | 3229.5 |
| 177.5° | 3240.1 | 3224.2 | 3250.7 | 3224.2 | 3213.7 | 3234.8 | 3250.7 | 3229.5 | 3245.4 | 3229.5 | 3245.4 |
| 180° | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 |



TEST NUMBER: P508444

CATALOG NUMBER: ASYX-X-S3-X-U-F-L30-1-UNV-X-X-X-STD

CANDELA DISTRIBUTION (continued):

| | 45° | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 68.7 | 68.7 | 68.7 | 63.4 | 58.1 | 58.1 | 58.1 | 58.1 | 52.9 | 47.6 | 47.6 |
| 95° | 671.3 | 533.9 | 486.3 | 401.7 | 338.3 | 311.9 | 269.6 | 269.6 | 200.9 | 163.9 | 174.4 |
| 97.5° | 1686.1 | 1310.8 | 1041.3 | 787.6 | 750.6 | 703.0 | 697.7 | 592.0 | 523.3 | 475.7 | 412.3 |
| 100° | 2188.3 | 1797.1 | 1559.3 | 1427.1 | 1252.7 | 1173.4 | 1115.3 | 1004.3 | 935.6 | 840.4 | 740.0 |
| 102.5° | 3250.7 | 2701.0 | 2235.8 | 1844.7 | 1580.4 | 1469.4 | 1395.4 | 1279.1 | 1194.6 | 1099.4 | 972.6 |
| 105° | 4471.7 | 3700.0 | 2923.0 | 2336.3 | 1982.1 | 1839.4 | 1712.6 | 1596.3 | 1485.3 | 1337.3 | 1221.0 |
| 107.5° | 4799.4 | 4239.1 | 3652.4 | 2997.0 | 2505.4 | 2362.7 | 2214.7 | 2019.1 | 1871.1 | 1744.3 | 1543.4 |
| 110° | 4915.7 | 4466.4 | 3959.0 | 3472.7 | 3076.2 | 2975.8 | 2801.4 | 2605.8 | 2457.8 | 2304.5 | 2109.0 |
| 112.5° | 4868.1 | 4587.9 | 4181.0 | 3747.5 | 3425.1 | 3324.7 | 3197.8 | 3076.2 | 2997.0 | 2880.7 | 2621.7 |
| 115° | 4852.2 | 4624.9 | 4339.5 | 3953.7 | 3663.0 | 3552.0 | 3451.5 | 3340.5 | 3319.4 | 3240.1 | 2954.7 |
| 117.5° | 4783.5 | 4630.2 | 4413.5 | 4101.7 | 3842.7 | 3768.7 | 3668.2 | 3578.4 | 3567.8 | 3488.5 | 3240.1 |
| 120° | 4735.9 | 4609.1 | 4424.1 | 4218.0 | 3996.0 | 3916.7 | 3832.1 | 3763.4 | 3731.7 | 3673.5 | 3435.7 |
| 122.5° | 4624.9 | 4577.4 | 4434.7 | 4260.2 | 4059.4 | 4022.4 | 3943.1 | 3826.8 | 3879.7 | 3816.2 | 3589.0 |
| 125° | 4529.8 | 4503.4 | 4466.4 | 4255.0 | 4112.2 | 4064.7 | 4006.5 | 3937.8 | 3953.7 | 3911.4 | 3673.5 |
| 127.5° | 4429.4 | 4424.1 | 4397.7 | 4270.8 | 4138.7 | 4117.5 | 4048.8 | 3996.0 | 3985.4 | 3943.1 | 3731.7 |
| 130° | 4350.1 | 4344.8 | 4307.8 | 4223.2 | 4138.7 | 4133.4 | 4064.7 | 4022.4 | 4017.1 | 3980.1 | 3774.0 |
| 132.5° | 4233.8 | 4233.8 | 4255.0 | 4170.4 | 4117.5 | 4101.7 | 4070.0 | 4017.1 | 4033.0 | 3953.7 | 3795.1 |
| 135° | 4122.8 | 4128.1 | 4144.0 | 4101.7 | 4133.4 | 4075.2 | 4043.5 | 3974.8 | 4006.5 | 3974.8 | 3816.2 |
| 137.5° | 3996.0 | 4011.8 | 4043.5 | 4027.7 | 4043.5 | 4048.8 | 4006.5 | 3990.7 | 3990.7 | 3959.0 | 3811.0 |
| 140° | 3842.7 | 3906.1 | 3964.2 | 3959.0 | 3990.7 | 3985.4 | 3969.5 | 3895.5 | 3964.2 | 3943.1 | 3816.2 |
| 142.5° | 3774.0 | 3811.0 | 3879.7 | 3863.8 | 3932.5 | 3932.5 | 3922.0 | 3916.7 | 3932.5 | 3895.5 | 3795.1 |
| 145° | 3657.7 | 3715.8 | 3768.7 | 3800.4 | 3842.7 | 3885.0 | 3869.1 | 3879.7 | 3885.0 | 3885.0 | 3763.4 |
| 147.5° | 3583.7 | 3647.1 | 3715.8 | 3726.4 | 3800.4 | 3811.0 | 3816.2 | 3832.1 | 3863.8 | 3821.5 | 3774.0 |
| 150° | 3504.4 | 3546.7 | 3626.0 | 3657.7 | 3737.0 | 3752.8 | 3747.5 | 3768.7 | 3821.5 | 3789.8 | 3715.8 |
| 152.5° | 3382.8 | 3472.7 | 3541.4 | 3589.0 | 3647.1 | 3684.1 | 3689.4 | 3689.4 | 3737.0 | 3737.0 | 3694.7 |
| 155° | 3361.7 | 3409.2 | 3472.7 | 3520.2 | 3583.7 | 3620.7 | 3626.0 | 3626.0 | 3673.5 | 3657.7 | 3647.1 |
| 157.5° | 3314.1 | 3377.5 | 3430.4 | 3446.2 | 3525.5 | 3557.2 | 3557.2 | 3567.8 | 3610.1 | 3620.7 | 3583.7 |
| 160° | 3282.4 | 3314.1 | 3377.5 | 3425.1 | 3467.4 | 3504.4 | 3509.7 | 3520.2 | 3546.7 | 3541.4 | 3525.5 |
| 162.5° | 3234.8 | 3282.4 | 3340.5 | 3367.0 | 3414.5 | 3451.5 | 3446.2 | 3446.2 | 3493.8 | 3504.4 | 3483.2 |
| 165° | 3208.4 | 3261.2 | 3330.0 | 3345.8 | 3377.5 | 3398.7 | 3393.4 | 3409.2 | 3451.5 | 3441.0 | 3430.4 |
| 167.5° | 3219.0 | 3245.4 | 3303.5 | 3298.2 | 3335.2 | 3351.1 | 3351.1 | 3340.5 | 3367.0 | 3330.0 | 3361.7 |
| 170° | 3234.8 | 3234.8 | 3266.5 | 3277.1 | 3308.8 | 3324.7 | 3308.8 | 3308.8 | 3324.7 | 3335.2 | 3340.5 |
| 172.5° | 3240.1 | 3234.8 | 3261.2 | 3256.0 | 3266.5 | 3293.0 | 3277.1 | 3256.0 | 3287.7 | 3308.8 | 3282.4 |
| 175° | 3224.2 | 3229.5 | 3271.8 | 3261.2 | 3245.4 | 3271.8 | 3245.4 | 3240.1 | 3287.7 | 3282.4 | 3271.8 |
| 177.5° | 3208.4 | 3208.4 | 3234.8 | 3213.7 | 3250.7 | 3250.7 | 3224.2 | 3224.2 | 3277.1 | 3240.1 | 3229.5 |
| 180° | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 |



TEST NUMBER: P508444

CATALOG NUMBER: ASYX-X-S3-X-U-F-L30-1-UNV-X-X-X-STD

CANDELA DISTRIBUTION (continued):

| | 95° | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 52.9 | 58.1 | 63.4 | 74.0 | 79.3 | 84.6 | 95.1 | 105.7 | 121.6 | 121.6 | 142.7 |
| 95° | 169.1 | 174.4 | 174.4 | 185.0 | 190.3 | 190.3 | 195.6 | 216.7 | 237.9 | 264.3 | 311.9 |
| 97.5° | 359.4 | 317.1 | 306.6 | 306.6 | 311.9 | 311.9 | 317.1 | 327.7 | 343.6 | 375.3 | 422.9 |
| 100° | 634.3 | 539.1 | 470.4 | 433.4 | 422.9 | 417.6 | 422.9 | 422.9 | 449.3 | 491.6 | 544.4 |
| 102.5° | 829.8 | 703.0 | 586.7 | 533.9 | 512.7 | 518.0 | 512.7 | 523.3 | 560.3 | 597.3 | 655.4 |
| 105° | 1046.6 | 882.7 | 734.7 | 655.4 | 623.7 | 618.4 | 618.4 | 629.0 | 671.3 | 718.8 | 761.1 |
| 107.5° | 1342.6 | 1136.4 | 919.7 | 803.4 | 755.8 | 745.3 | 745.3 | 761.1 | 787.6 | 819.3 | 866.8 |
| 110° | 1818.3 | 1480.0 | 1178.7 | 993.7 | 930.3 | 893.3 | 872.1 | 888.0 | 903.8 | 930.3 | 967.3 |
| 112.5° | 2262.3 | 1844.7 | 1448.3 | 1168.1 | 1083.6 | 1025.4 | 993.7 | 993.7 | 1014.8 | 1036.0 | 1062.4 |
| 115° | 2568.8 | 2103.7 | 1675.6 | 1347.8 | 1226.3 | 1173.4 | 1104.7 | 1110.0 | 1125.8 | 1147.0 | 1162.8 |
| 117.5° | 2843.7 | 2346.8 | 1865.8 | 1517.0 | 1379.6 | 1295.0 | 1226.3 | 1210.4 | 1242.1 | 1268.6 | 1279.1 |
| 120° | 3039.3 | 2558.3 | 2056.1 | 1691.4 | 1532.8 | 1437.7 | 1342.6 | 1326.7 | 1358.4 | 1363.7 | 1416.6 |
| 122.5° | 3203.1 | 2711.5 | 2220.0 | 1844.7 | 1675.6 | 1596.3 | 1480.0 | 1458.8 | 1480.0 | 1517.0 | 1559.3 |
| 125° | 3308.8 | 2849.0 | 2368.0 | 1987.4 | 1828.8 | 1723.1 | 1601.6 | 1585.7 | 1601.6 | 1628.0 | 1675.6 |
| 127.5° | 3393.4 | 2960.0 | 2510.7 | 2135.4 | 1950.4 | 1865.8 | 1744.3 | 1712.6 | 1733.7 | 1744.3 | 1797.1 |
| 130° | 3456.8 | 3086.8 | 2642.8 | 2278.1 | 2114.3 | 2029.7 | 1865.8 | 1834.1 | 1844.7 | 1871.1 | 1897.5 |
| 132.5° | 3520.2 | 3166.1 | 2775.0 | 2426.1 | 2267.5 | 2172.4 | 2013.8 | 1945.1 | 1950.4 | 1971.5 | 1998.0 |
| 135° | 3562.5 | 3250.7 | 2912.4 | 2574.1 | 2399.7 | 2325.7 | 2156.5 | 2087.8 | 2061.4 | 2056.1 | 2087.8 |
| 137.5° | 3604.8 | 3330.0 | 3018.1 | 2711.5 | 2563.5 | 2479.0 | 2278.1 | 2198.8 | 2172.4 | 2167.1 | 2177.7 |
| 140° | 3641.8 | 3398.7 | 3113.2 | 2859.5 | 2711.5 | 2611.1 | 2426.1 | 2325.7 | 2283.4 | 2262.3 | 2272.8 |
| 142.5° | 3657.7 | 3456.8 | 3213.7 | 3018.1 | 2838.4 | 2722.1 | 2568.8 | 2468.4 | 2378.5 | 2352.1 | 2331.0 |
| 145° | 3668.2 | 3546.7 | 3308.8 | 3118.5 | 2981.1 | 2912.4 | 2727.4 | 2595.3 | 2489.5 | 2436.7 | 2426.1 |
| 147.5° | 3668.2 | 3541.4 | 3372.2 | 3203.1 | 3086.8 | 3012.8 | 2812.0 | 2727.4 | 2642.8 | 2553.0 | 2510.7 |
| 150° | 3657.7 | 3599.5 | 3419.8 | 3287.7 | 3166.1 | 3108.0 | 2965.3 | 2806.7 | 2716.8 | 2653.4 | 2605.8 |
| 152.5° | 3631.2 | 3552.0 | 3446.2 | 3330.0 | 3240.1 | 3203.1 | 3039.3 | 2938.8 | 2843.7 | 2748.5 | 2711.5 |
| 155° | 3604.8 | 3541.4 | 3462.1 | 3367.0 | 3293.0 | 3245.4 | 3129.1 | 3028.7 | 2960.0 | 2859.5 | 2822.5 |
| 157.5° | 3573.1 | 3530.8 | 3462.1 | 3409.2 | 3324.7 | 3293.0 | 3176.7 | 3108.0 | 3049.8 | 2949.4 | 2901.8 |
| 160° | 3525.5 | 3499.1 | 3456.8 | 3382.8 | 3345.8 | 3319.4 | 3224.2 | 3171.4 | 3113.2 | 3039.3 | 3002.3 |
| 162.5° | 3478.0 | 3483.2 | 3430.4 | 3414.5 | 3356.4 | 3335.2 | 3271.8 | 3213.7 | 3155.5 | 3113.2 | 3081.5 |
| 165° | 3441.0 | 3462.1 | 3409.2 | 3356.4 | 3356.4 | 3345.8 | 3277.1 | 3250.7 | 3224.2 | 3176.7 | 3139.7 |
| 167.5° | 3372.2 | 3398.7 | 3398.7 | 3335.2 | 3330.0 | 3345.8 | 3303.5 | 3277.1 | 3256.0 | 3219.0 | 3197.8 |
| 170° | 3361.7 | 3361.7 | 3324.7 | 3330.0 | 3345.8 | 3308.8 | 3282.4 | 3277.1 | 3277.1 | 3256.0 | 3240.1 |
| 172.5° | 3298.2 | 3330.0 | 3314.1 | 3303.5 | 3287.7 | 3287.7 | 3271.8 | 3277.1 | 3266.5 | 3271.8 | 3266.5 |
| 175° | 3277.1 | 3282.4 | 3287.7 | 3282.4 | 3266.5 | 3266.5 | 3261.2 | 3266.5 | 3271.8 | 3271.8 | 3261.2 |
| 177.5° | 3245.4 | 3261.2 | 3287.7 | 3261.2 | 3271.8 | 3250.7 | 3245.4 | 3256.0 | 3256.0 | 3261.2 | 3250.7 |
| 180° | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 |



TEST NUMBER: P508444

CATALOG NUMBER: ASYX-X-S3-X-U-F-L30-1-UNV-X-X-X-STD

CANDELA DISTRIBUTION (continued):

| | 145° | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 158.6 | 169.1 | 174.4 | 179.7 | 185.0 | 169.1 | 169.1 | 153.3 | 142.7 |
| 95° | 338.3 | 364.7 | 364.7 | 364.7 | 380.6 | 391.1 | 385.9 | 380.6 | 380.6 |
| 97.5° | 459.9 | 502.1 | 533.9 | 539.1 | 539.1 | 539.1 | 544.4 | 544.4 | 533.9 |
| 100° | 581.4 | 602.6 | 623.7 | 629.0 | 623.7 | 623.7 | 618.4 | 629.0 | 623.7 |
| 102.5° | 697.7 | 718.8 | 724.1 | 729.4 | 724.1 | 718.8 | 708.3 | 718.8 | 697.7 |
| 105° | 798.1 | 819.3 | 814.0 | 808.7 | 803.4 | 792.8 | 782.3 | 798.1 | 792.8 |
| 107.5° | 909.1 | 914.4 | 919.7 | 925.0 | 903.8 | 898.6 | 898.6 | 909.1 | 903.8 |
| 110° | 999.0 | 1020.1 | 1014.8 | 1009.6 | 1009.6 | 999.0 | 993.7 | 999.0 | 993.7 |
| 112.5° | 1094.1 | 1104.7 | 1099.4 | 1099.4 | 1094.1 | 1078.3 | 1062.4 | 1067.7 | 1062.4 |
| 115° | 1194.6 | 1199.8 | 1194.6 | 1184.0 | 1173.4 | 1162.8 | 1141.7 | 1131.1 | 1125.8 |
| 117.5° | 1300.3 | 1295.0 | 1284.4 | 1279.1 | 1268.6 | 1263.3 | 1231.6 | 1215.7 | 1210.4 |
| 120° | 1421.8 | 1406.0 | 1384.8 | 1379.6 | 1363.7 | 1358.4 | 1316.1 | 1289.7 | 1284.4 |
| 122.5° | 1569.8 | 1543.4 | 1501.1 | 1480.0 | 1474.7 | 1458.8 | 1406.0 | 1395.4 | 1379.6 |
| 125° | 1696.7 | 1686.1 | 1659.7 | 1643.8 | 1622.7 | 1575.1 | 1517.0 | 1490.6 | 1501.1 |
| 127.5° | 1818.3 | 1813.0 | 1802.4 | 1781.3 | 1754.8 | 1733.7 | 1686.1 | 1643.8 | 1633.3 |
| 130° | 1918.7 | 1924.0 | 1908.1 | 1892.3 | 1876.4 | 1855.3 | 1802.4 | 1776.0 | 1776.0 |
| 132.5° | 2013.8 | 2019.1 | 2029.7 | 1987.4 | 1976.8 | 1955.7 | 1908.1 | 1876.4 | 1887.0 |
| 135° | 2087.8 | 2098.4 | 2082.5 | 2066.7 | 2056.1 | 2035.0 | 1987.4 | 1971.5 | 1976.8 |
| 137.5° | 2188.3 | 2177.7 | 2161.8 | 2151.3 | 2124.8 | 2119.5 | 2082.5 | 2056.1 | 2045.5 |
| 140° | 2251.7 | 2257.0 | 2257.0 | 2230.5 | 2204.1 | 2193.5 | 2156.5 | 2130.1 | 2135.4 |
| 142.5° | 2336.3 | 2315.1 | 2325.7 | 2299.3 | 2283.4 | 2267.5 | 2220.0 | 2214.7 | 2214.7 |
| 145° | 2399.7 | 2389.1 | 2383.8 | 2362.7 | 2357.4 | 2325.7 | 2309.8 | 2283.4 | 2299.3 |
| 147.5° | 2468.4 | 2468.4 | 2468.4 | 2420.8 | 2410.3 | 2394.4 | 2378.5 | 2357.4 | 2373.3 |
| 150° | 2568.8 | 2531.8 | 2521.3 | 2494.8 | 2473.7 | 2463.1 | 2426.1 | 2415.5 | 2431.4 |
| 152.5° | 2648.1 | 2605.8 | 2574.1 | 2558.3 | 2553.0 | 2537.1 | 2516.0 | 2500.1 | 2500.1 |
| 155° | 2743.3 | 2685.1 | 2685.1 | 2627.0 | 2611.1 | 2600.5 | 2579.4 | 2574.1 | 2579.4 |
| 157.5° | 2843.7 | 2790.8 | 2764.4 | 2732.7 | 2706.3 | 2695.7 | 2669.3 | 2658.7 | 2669.3 |
| 160° | 2917.7 | 2912.4 | 2854.3 | 2838.4 | 2812.0 | 2796.1 | 2790.8 | 2764.4 | 2764.4 |
| 162.5° | 3034.0 | 2960.0 | 2949.4 | 2933.5 | 2912.4 | 2891.3 | 2880.7 | 2870.1 | 2880.7 |
| 165° | 3097.4 | 3076.2 | 3049.8 | 3028.7 | 3012.8 | 3007.5 | 2975.8 | 2986.4 | 2981.1 |
| 167.5° | 3171.4 | 3155.5 | 3129.1 | 3113.2 | 3118.5 | 3097.4 | 3097.4 | 3071.0 | 3076.2 |
| 170° | 3224.2 | 3234.8 | 3203.1 | 3187.2 | 3176.7 | 3176.7 | 3155.5 | 3155.5 | 3166.1 |
| 172.5° | 3261.2 | 3277.1 | 3250.7 | 3240.1 | 3229.5 | 3240.1 | 3219.0 | 3213.7 | 3224.2 |
| 175° | 3271.8 | 3293.0 | 3271.8 | 3266.5 | 3256.0 | 3287.7 | 3250.7 | 3250.7 | 3229.5 |
| 177.5° | 3261.2 | 3266.5 | 3287.7 | 3256.0 | 3256.0 | 3266.5 | 3271.8 | 3229.5 | 3256.0 |
| 180° | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 | 3245.4 |

(END OF REPORT)