

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: P508464

Luminaire Tested: **ASYX-X-S4-X-U-HSS-L30-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

Test Information

Test Method: LM-79-08
Report Number: P508464
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-S4-X-U-HSS-L30-1-UNV-X-X-X-STD
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.
(4) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR
OPTICS WITH HOUSE SIDE SHIELD
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

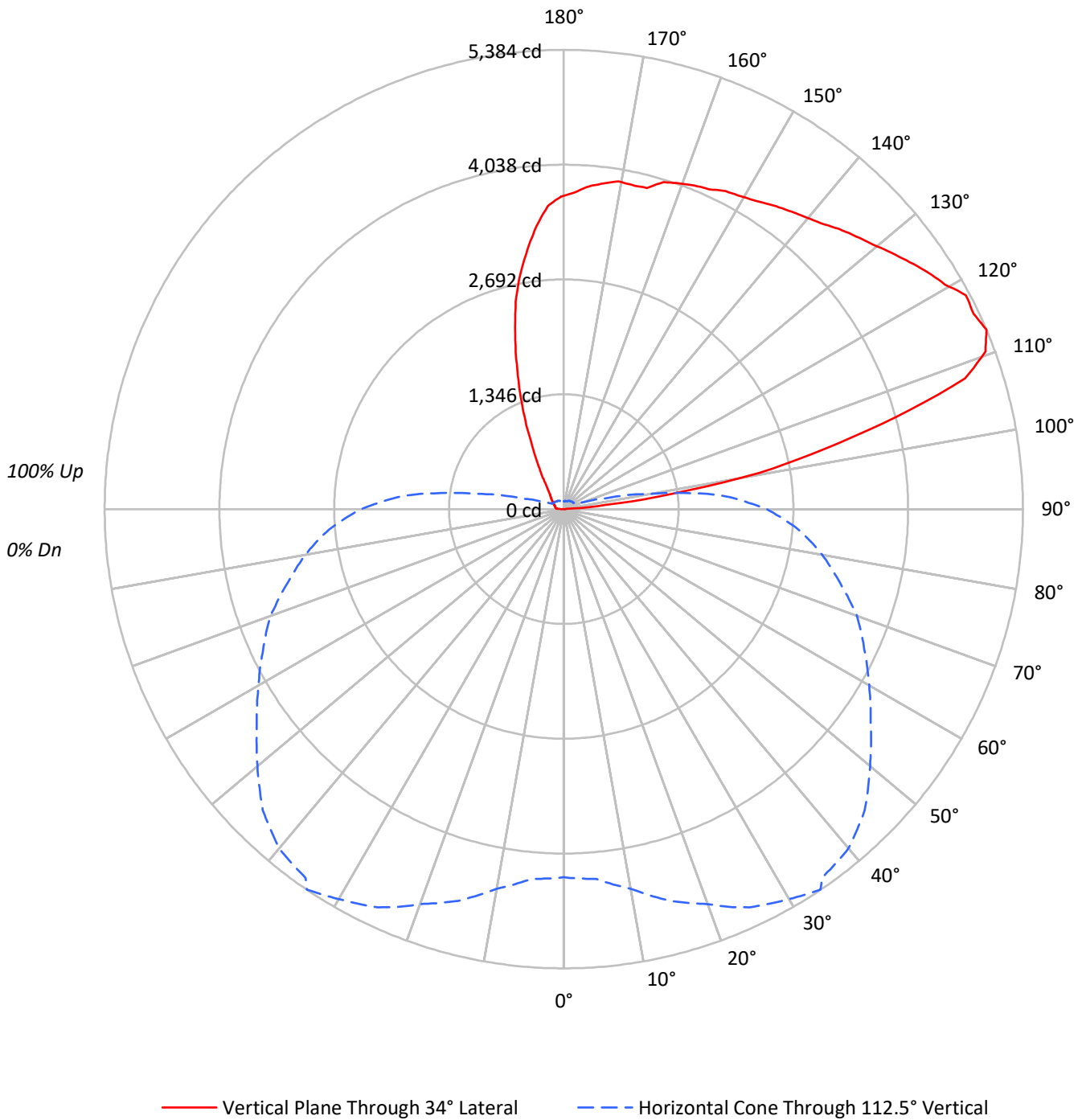
Lumens per Lamp: N/A
Luminaire Lumens: 12618.2 lumens
Efficiency: N/A
Efficacy: 58.7 lumens/watt
N/A
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
CIE Type: Indirect

Input Watts (W): 215.1
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: P508464
CATALOG NUMBER: ASYX-X-S4-X-U-HSS-L30-1-UNV-X-X-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P508464

CATALOG NUMBER: ASYX-X-S4-X-U-HSS-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° | 865 | 10399 | 12140 |
| 100° | 35240 | 21317 | 6527 |
| 105° | 108006 | 33861 | 4088 |
| 110° | 123926 | 58097 | 2870 |
| 115° | 112983 | 67932 | 2504 |
| 120° | 96707 | 65731 | 2418 |
| 125° | 81271 | 63094 | 2503 |
| 130° | 73344 | 59122 | 2703 |
| 135° | 64963 | 55133 | 2885 |
| 140° | 60064 | 50398 | 3254 |
| 145° | 54970 | 46669 | 3690 |
| 150° | 52082 | 43184 | 5147 |
| 155° | 48934 | 41098 | 7836 |
| 160° | 46712 | 40040 | 12381 |
| 165° | 44741 | 39578 | 19476 |
| 170° | 43192 | 39510 | 28616 |
| 175° | 41485 | 39437 | 35190 |



TEST NUMBER: P508464

CATALOG NUMBER: ASYX-X-S4-X-U-HSS-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° | 245.4 | 1.9 |
| 100°-110° | 1537.9 | 12.2 |
| 110°-120° | 2377.1 | 18.8 |
| 120°-130° | 2294.1 | 18.2 |
| 130°-140° | 1992.4 | 15.8 |
| 140°-150° | 1642.2 | 13.0 |
| 150°-160° | 1294.0 | 10.3 |
| 160°-170° | 897.7 | 7.1 |
| 170°-180° | 337.4 | 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° | 4160.4 | 33.0 |
| 90°-150° | 10089.0 | 80.0 |
| 90°-180° | 12618.0 | 100.0 |
| 0°-180° | 12618.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 90° | 0 | 0 | 0 | 0 | 0 | |
| 95° | 7 | 63 | 84 | 77 | 98 | 119 |
| 105° | 2597 | 4169 | 814 | 105 | 98 | 2548 |
| 115° | 4436 | 5061 | 2667 | 133 | 98 | 4314 |
| 125° | 4331 | 4934 | 3362 | 176 | 133 | 3960 |
| 135° | 4268 | 4527 | 3622 | 246 | 190 | 3319 |
| 145° | 4183 | 4232 | 3552 | 498 | 281 | 2652 |
| 155° | 4120 | 4064 | 3460 | 1221 | 660 | 1899 |
| 165° | 4015 | 3903 | 3552 | 2414 | 1748 | 1140 |
| 175° | 3839 | 3769 | 3650 | 3411 | 3257 | 368 |
| 180° | 3664 | 3664 | 3664 | 3664 | 3664 | |



TEST NUMBER: P508464

CATALOG NUMBER: ASYX-X-S4-X-U-HSS-L30-1-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 | 7.0 | 7.0 | 21.1 | 14.0 | 14.0 | 21.1 | 28.1 | 35.1 | 14.0 |
| 95° | 7.0 | 7.0 | 14.0 | 182.5 | 547.5 | 603.6 | 575.6 | 554.5 | 484.3 | 421.1 | 105.3 |
| 97.5° | 147.4 | 175.5 | 280.8 | 751.0 | 1523.1 | 1754.7 | 1867.1 | 1530.1 | 1256.4 | 1165.2 | 624.7 |
| 100° | 568.5 | 659.8 | 912.5 | 1726.7 | 2576.0 | 2632.1 | 2611.1 | 2540.9 | 2337.3 | 2204.0 | 1691.6 |
| 102.5° | 1516.1 | 1579.3 | 1930.2 | 2653.2 | 3116.4 | 3214.7 | 3214.7 | 3151.5 | 3130.5 | 3088.4 | 2926.9 |
| 105° | 2597.0 | 2667.2 | 2948.0 | 3320.0 | 3600.7 | 3706.0 | 3762.2 | 3902.6 | 4042.9 | 4064.0 | 4218.4 |
| 107.5° | 3320.0 | 3390.2 | 3607.8 | 3888.5 | 4253.5 | 4386.9 | 4548.3 | 4772.9 | 4948.4 | 4927.3 | 4892.2 |
| 110° | 3937.7 | 4014.9 | 4218.4 | 4499.2 | 4765.9 | 4927.3 | 5081.8 | 5180.0 | 5278.3 | 5180.0 | 5130.9 |
| 112.5° | 4316.7 | 4351.8 | 4520.2 | 4751.9 | 4927.3 | 5046.7 | 5151.9 | 5278.3 | 5383.6 | 5278.3 | 5194.1 |
| 115° | 4436.0 | 4457.1 | 4604.5 | 4765.9 | 4955.4 | 5067.7 | 5144.9 | 5278.3 | 5320.4 | 5299.3 | 5229.2 |
| 117.5° | 4429.0 | 4520.2 | 4646.6 | 4758.9 | 4941.4 | 5032.6 | 5109.8 | 5215.1 | 5341.5 | 5285.3 | 5215.1 |
| 120° | 4492.2 | 4499.2 | 4632.5 | 4765.9 | 4899.3 | 4976.5 | 4976.5 | 5130.9 | 5187.0 | 5173.0 | 5159.0 |
| 122.5° | 4471.1 | 4492.2 | 4604.5 | 4688.7 | 4829.1 | 4892.2 | 4955.4 | 5032.6 | 5095.8 | 5074.7 | 5074.7 |
| 125° | 4330.7 | 4464.1 | 4527.3 | 4625.5 | 4758.9 | 4801.0 | 4864.2 | 4927.3 | 4983.5 | 4962.4 | 4955.4 |
| 127.5° | 4414.9 | 4422.0 | 4478.1 | 4583.4 | 4667.6 | 4695.7 | 4765.9 | 4822.1 | 4878.2 | 4871.2 | 4885.2 |
| 130° | 4379.9 | 4358.8 | 4492.2 | 4534.3 | 4597.4 | 4646.6 | 4681.7 | 4730.8 | 4772.9 | 4772.9 | 4787.0 |
| 132.5° | 4351.8 | 4351.8 | 4393.9 | 4478.1 | 4534.3 | 4569.4 | 4625.5 | 4639.6 | 4688.7 | 4702.7 | 4674.7 |
| 135° | 4267.6 | 4323.7 | 4386.9 | 4414.9 | 4478.1 | 4506.2 | 4534.3 | 4562.3 | 4604.5 | 4618.5 | 4569.4 |
| 137.5° | 4183.3 | 4267.6 | 4351.8 | 4393.9 | 4443.0 | 4443.0 | 4443.0 | 4485.1 | 4506.2 | 4527.3 | 4478.1 |
| 140° | 4274.6 | 4267.6 | 4344.8 | 4337.7 | 4365.8 | 4358.8 | 4407.9 | 4414.9 | 4443.0 | 4429.0 | 4400.9 |
| 142.5° | 4253.5 | 4253.5 | 4274.6 | 4302.6 | 4295.6 | 4309.7 | 4344.8 | 4379.9 | 4379.9 | 4393.9 | 4344.8 |
| 145° | 4183.3 | 4204.4 | 4239.5 | 4267.6 | 4267.6 | 4260.5 | 4302.6 | 4309.7 | 4323.7 | 4316.7 | 4288.6 |
| 147.5° | 4211.4 | 4211.4 | 4211.4 | 4246.5 | 4246.5 | 4246.5 | 4253.5 | 4260.5 | 4260.5 | 4267.6 | 4246.5 |
| 150° | 4190.3 | 4197.4 | 4211.4 | 4197.4 | 4232.5 | 4176.3 | 4211.4 | 4211.4 | 4211.4 | 4218.4 | 4204.4 |
| 152.5° | 4050.0 | 4148.2 | 4183.3 | 4176.3 | 4148.2 | 4162.3 | 4169.3 | 4197.4 | 4183.3 | 4197.4 | 4155.2 |
| 155° | 4120.2 | 4113.1 | 4120.2 | 4127.2 | 4106.1 | 4120.2 | 4127.2 | 4127.2 | 4120.2 | 4127.2 | 4092.1 |
| 157.5° | 4099.1 | 4092.1 | 4127.2 | 4085.1 | 4106.1 | 4120.2 | 4092.1 | 4113.1 | 4092.1 | 4120.2 | 4106.1 |
| 160° | 4078.0 | 4064.0 | 4092.1 | 4064.0 | 4092.1 | 4057.0 | 4035.9 | 4071.0 | 4050.0 | 4099.1 | 4028.9 |
| 162.5° | 4050.0 | 4042.9 | 4071.0 | 4035.9 | 4007.8 | 3993.8 | 4014.9 | 4021.9 | 4007.8 | 4021.9 | 3986.8 |
| 165° | 4014.9 | 4014.9 | 4014.9 | 3979.8 | 4000.8 | 4000.8 | 3972.8 | 3979.8 | 3888.5 | 3986.8 | 3944.7 |
| 167.5° | 3986.8 | 4014.9 | 3979.8 | 3944.7 | 3986.8 | 3986.8 | 3937.7 | 3944.7 | 3881.5 | 3930.6 | 3909.6 |
| 170° | 3951.7 | 3923.6 | 3930.6 | 3930.6 | 3965.7 | 3902.6 | 3867.5 | 3930.6 | 3895.5 | 3930.6 | 3895.5 |
| 172.5° | 3867.5 | 3895.5 | 3895.5 | 3881.5 | 3860.4 | 3860.4 | 3853.4 | 3867.5 | 3846.4 | 3853.4 | 3832.4 |
| 175° | 3839.4 | 3839.4 | 3853.4 | 3874.5 | 3832.4 | 3825.4 | 3783.2 | 3818.3 | 3797.3 | 3811.3 | 3790.3 |
| 177.5° | 3734.1 | 3790.3 | 3783.2 | 3734.1 | 3762.2 | 3720.1 | 3741.1 | 3755.2 | 3713.0 | 3748.1 | 3713.0 |
| 180° | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 |



TEST NUMBER: P508464

CATALOG NUMBER: ASYX-X-S4-X-U-HSS-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° | 14.0 | 14.0 | 14.0 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 |
| 95° | 63.2 | 84.2 | 203.6 | 168.5 | 126.3 | 119.3 | 133.4 | 119.3 | 105.3 | 91.2 | 84.2 |
| 97.5° | 505.4 | 568.5 | 596.6 | 526.4 | 519.4 | 477.3 | 428.2 | 322.9 | 294.8 | 259.7 | 203.6 |
| 100° | 1382.7 | 1228.3 | 1151.1 | 1024.8 | 828.2 | 751.0 | 687.9 | 568.5 | 463.3 | 407.1 | 343.9 |
| 102.5° | 2646.2 | 2358.4 | 1986.4 | 1593.3 | 1298.5 | 1186.2 | 1059.9 | 884.4 | 744.0 | 617.7 | 512.4 |
| 105° | 4169.3 | 3621.8 | 2898.8 | 2372.4 | 1979.4 | 1733.7 | 1621.4 | 1340.6 | 1109.0 | 968.6 | 814.2 |
| 107.5° | 4674.7 | 4323.7 | 3874.5 | 3327.0 | 2863.8 | 2639.1 | 2393.5 | 2021.5 | 1726.7 | 1467.0 | 1235.3 |
| 110° | 4885.2 | 4583.4 | 4246.5 | 3923.6 | 3607.8 | 3404.2 | 3235.8 | 2856.7 | 2491.7 | 2168.9 | 1846.0 |
| 112.5° | 4990.5 | 4688.7 | 4393.9 | 4134.2 | 3888.5 | 3776.2 | 3656.9 | 3355.1 | 3074.3 | 2765.5 | 2379.4 |
| 115° | 5060.7 | 4822.1 | 4562.3 | 4288.6 | 4099.1 | 3979.8 | 3874.5 | 3600.7 | 3341.0 | 3060.3 | 2667.2 |
| 117.5° | 5095.8 | 4857.1 | 4667.6 | 4443.0 | 4246.5 | 4148.2 | 4035.9 | 3790.3 | 3530.6 | 3270.9 | 2877.8 |
| 120° | 5053.7 | 4892.2 | 4737.8 | 4548.3 | 4358.8 | 4260.5 | 4169.3 | 3923.6 | 3685.0 | 3439.3 | 3053.3 |
| 122.5° | 4997.5 | 4906.3 | 4787.0 | 4597.4 | 4457.1 | 4372.8 | 4295.6 | 4050.0 | 3839.4 | 3558.6 | 3207.7 |
| 125° | 4934.4 | 4843.1 | 4716.8 | 4597.4 | 4485.1 | 4422.0 | 4365.8 | 4148.2 | 3930.6 | 3692.0 | 3362.1 |
| 127.5° | 4836.1 | 4751.9 | 4653.6 | 4555.3 | 4471.1 | 4407.9 | 4386.9 | 4197.4 | 3993.8 | 3783.2 | 3446.3 |
| 130° | 4730.8 | 4660.6 | 4576.4 | 4478.1 | 4422.0 | 4351.8 | 4358.8 | 4190.3 | 4028.9 | 3832.4 | 3530.6 |
| 132.5° | 4590.4 | 4541.3 | 4520.2 | 4414.9 | 4358.8 | 4323.7 | 4274.6 | 4162.3 | 4028.9 | 3874.5 | 3586.7 |
| 135° | 4527.3 | 4478.1 | 4443.0 | 4351.8 | 4267.6 | 4253.5 | 4183.3 | 4120.2 | 4007.8 | 3895.5 | 3621.8 |
| 137.5° | 4414.9 | 4386.9 | 4365.8 | 4267.6 | 4183.3 | 4183.3 | 4162.3 | 4078.0 | 3979.8 | 3825.4 | 3593.7 |
| 140° | 4365.8 | 4330.7 | 4274.6 | 4197.4 | 4148.2 | 4106.1 | 4085.1 | 4014.9 | 3895.5 | 3776.2 | 3586.7 |
| 142.5° | 4281.6 | 4253.5 | 4239.5 | 4169.3 | 4092.1 | 4050.0 | 4007.8 | 3930.6 | 3846.4 | 3762.2 | 3558.6 |
| 145° | 4232.5 | 4225.4 | 4211.4 | 4141.2 | 4021.9 | 4000.8 | 3986.8 | 3902.6 | 3825.4 | 3692.0 | 3551.6 |
| 147.5° | 4169.3 | 4176.3 | 4162.3 | 4078.0 | 4000.8 | 3951.7 | 3916.6 | 3839.4 | 3783.2 | 3670.9 | 3495.5 |
| 150° | 4127.2 | 4134.2 | 4120.2 | 4014.9 | 3930.6 | 3909.6 | 3895.5 | 3818.3 | 3713.0 | 3621.8 | 3474.4 |
| 152.5° | 4106.1 | 4085.1 | 4050.0 | 4007.8 | 3916.6 | 3867.5 | 3853.4 | 3769.2 | 3713.0 | 3600.7 | 3460.4 |
| 155° | 4064.0 | 4035.9 | 4014.9 | 3944.7 | 3888.5 | 3839.4 | 3804.3 | 3755.2 | 3692.0 | 3579.7 | 3460.4 |
| 157.5° | 4021.9 | 3993.8 | 3979.8 | 3965.7 | 3888.5 | 3818.3 | 3811.3 | 3755.2 | 3656.9 | 3572.7 | 3474.4 |
| 160° | 3979.8 | 3909.6 | 3965.7 | 3881.5 | 3860.4 | 3804.3 | 3762.2 | 3727.1 | 3656.9 | 3579.7 | 3495.5 |
| 162.5° | 3937.7 | 3916.6 | 3909.6 | 3860.4 | 3818.3 | 3783.2 | 3720.1 | 3741.1 | 3656.9 | 3586.7 | 3523.5 |
| 165° | 3902.6 | 3881.5 | 3874.5 | 3860.4 | 3797.3 | 3769.2 | 3755.2 | 3713.0 | 3678.0 | 3607.8 | 3551.6 |
| 167.5° | 3867.5 | 3832.4 | 3846.4 | 3832.4 | 3755.2 | 3776.2 | 3741.1 | 3713.0 | 3692.0 | 3635.8 | 3579.7 |
| 170° | 3860.4 | 3790.3 | 3825.4 | 3818.3 | 3762.2 | 3755.2 | 3713.0 | 3706.0 | 3685.0 | 3642.9 | 3614.8 |
| 172.5° | 3825.4 | 3776.2 | 3797.3 | 3776.2 | 3748.1 | 3727.1 | 3727.1 | 3734.1 | 3699.0 | 3670.9 | 3635.8 |
| 175° | 3769.2 | 3741.1 | 3748.1 | 3769.2 | 3727.1 | 3713.0 | 3678.0 | 3706.0 | 3713.0 | 3663.9 | 3649.9 |
| 177.5° | 3706.0 | 3734.1 | 3713.0 | 3741.1 | 3706.0 | 3699.0 | 3678.0 | 3699.0 | 3699.0 | 3656.9 | 3656.9 |
| 180° | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 |



TEST NUMBER: P508464

CATALOG NUMBER: ASYX-X-S4-X-U-HSS-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° | 21.1 | 28.1 | 28.1 | 35.1 | 42.1 | 42.1 | 49.1 | 49.1 | 56.2 | 63.2 | 70.2 |
| 95° | 42.1 | 35.1 | 42.1 | 49.1 | 49.1 | 56.2 | 63.2 | 63.2 | 70.2 | 77.2 | 77.2 |
| 97.5° | 84.2 | 56.2 | 56.2 | 56.2 | 63.2 | 63.2 | 70.2 | 77.2 | 84.2 | 84.2 | 84.2 |
| 100° | 161.4 | 91.2 | 91.2 | 70.2 | 70.2 | 77.2 | 77.2 | 84.2 | 91.2 | 91.2 | 91.2 |
| 102.5° | 280.8 | 168.5 | 133.4 | 91.2 | 84.2 | 84.2 | 91.2 | 91.2 | 98.3 | 98.3 | 98.3 |
| 105° | 526.4 | 336.9 | 189.5 | 112.3 | 105.3 | 98.3 | 98.3 | 98.3 | 105.3 | 105.3 | 105.3 |
| 107.5° | 926.5 | 540.5 | 266.7 | 147.4 | 126.3 | 112.3 | 112.3 | 112.3 | 112.3 | 112.3 | 112.3 |
| 110° | 1410.8 | 793.1 | 365.0 | 189.5 | 154.4 | 133.4 | 126.3 | 126.3 | 119.3 | 119.3 | 119.3 |
| 112.5° | 1853.0 | 1038.8 | 463.3 | 231.6 | 182.5 | 154.4 | 140.4 | 133.4 | 133.4 | 126.3 | 119.3 |
| 115° | 2133.8 | 1221.3 | 561.5 | 266.7 | 210.6 | 175.5 | 147.4 | 147.4 | 140.4 | 133.4 | 126.3 |
| 117.5° | 2337.3 | 1410.8 | 680.8 | 322.9 | 245.7 | 203.6 | 161.4 | 154.4 | 147.4 | 147.4 | 140.4 |
| 120° | 2533.9 | 1607.4 | 807.2 | 386.0 | 294.8 | 231.6 | 182.5 | 168.5 | 161.4 | 154.4 | 147.4 |
| 122.5° | 2723.4 | 1796.9 | 947.6 | 463.3 | 343.9 | 273.7 | 203.6 | 182.5 | 175.5 | 161.4 | 161.4 |
| 125° | 2870.8 | 1993.4 | 1109.0 | 561.5 | 414.1 | 322.9 | 231.6 | 196.5 | 182.5 | 175.5 | 168.5 |
| 127.5° | 3032.2 | 2189.9 | 1277.5 | 666.8 | 491.3 | 386.0 | 266.7 | 217.6 | 203.6 | 189.5 | 182.5 |
| 130° | 3151.5 | 2379.4 | 1460.0 | 807.2 | 603.6 | 463.3 | 315.9 | 245.7 | 217.6 | 203.6 | 196.5 |
| 132.5° | 3242.8 | 2540.9 | 1642.4 | 961.6 | 737.0 | 561.5 | 379.0 | 294.8 | 245.7 | 224.6 | 210.6 |
| 135° | 3270.9 | 2681.3 | 1832.0 | 1130.1 | 877.4 | 687.9 | 463.3 | 350.9 | 280.8 | 245.7 | 231.6 |
| 137.5° | 3298.9 | 2793.6 | 2014.5 | 1319.6 | 1059.9 | 842.3 | 561.5 | 421.1 | 336.9 | 287.8 | 252.7 |
| 140° | 3284.9 | 2877.8 | 2189.9 | 1530.1 | 1249.4 | 1010.7 | 694.9 | 512.4 | 407.1 | 343.9 | 294.8 |
| 142.5° | 3277.9 | 2948.0 | 2372.4 | 1726.7 | 1445.9 | 1207.3 | 856.3 | 631.7 | 498.3 | 407.1 | 350.9 |
| 145° | 3291.9 | 2997.1 | 2505.8 | 1937.2 | 1677.5 | 1431.9 | 1052.8 | 772.1 | 610.7 | 498.3 | 435.2 |
| 147.5° | 3242.8 | 3025.2 | 2667.2 | 2119.7 | 1881.1 | 1642.4 | 1263.4 | 961.6 | 765.1 | 624.7 | 533.4 |
| 150° | 3284.9 | 3039.2 | 2737.4 | 2302.2 | 2077.6 | 1860.0 | 1495.0 | 1179.2 | 954.6 | 786.1 | 673.8 |
| 152.5° | 3277.9 | 3053.3 | 2814.6 | 2463.7 | 2274.2 | 2070.6 | 1705.6 | 1396.8 | 1158.1 | 982.7 | 849.3 |
| 155° | 3313.0 | 3060.3 | 2891.8 | 2625.1 | 2456.6 | 2274.2 | 1944.3 | 1649.5 | 1396.8 | 1221.3 | 1066.9 |
| 157.5° | 3341.0 | 3151.5 | 2983.1 | 2772.5 | 2625.1 | 2470.7 | 2189.9 | 1916.2 | 1677.5 | 1495.0 | 1305.5 |
| 160° | 3383.2 | 3200.7 | 3053.3 | 2891.8 | 2793.6 | 2632.1 | 2428.6 | 2211.0 | 1979.4 | 1782.8 | 1628.4 |
| 162.5° | 3404.2 | 3277.9 | 3151.5 | 2990.1 | 2926.9 | 2814.6 | 2646.2 | 2484.7 | 2288.2 | 2105.7 | 1958.3 |
| 165° | 3446.3 | 3320.0 | 3235.8 | 3102.4 | 3039.2 | 2941.0 | 2835.7 | 2688.3 | 2569.0 | 2414.5 | 2302.2 |
| 167.5° | 3488.4 | 3404.2 | 3334.0 | 3228.7 | 3172.6 | 3102.4 | 3011.1 | 2912.9 | 2849.7 | 2730.4 | 2618.1 |
| 170° | 3530.6 | 3460.4 | 3425.3 | 3376.1 | 3291.9 | 3235.8 | 3193.6 | 3123.5 | 3039.2 | 2983.1 | 2919.9 |
| 172.5° | 3565.7 | 3537.6 | 3516.5 | 3502.5 | 3418.3 | 3376.1 | 3348.1 | 3270.9 | 3270.9 | 3193.6 | 3144.5 |
| 175° | 3621.8 | 3530.6 | 3593.7 | 3558.6 | 3530.6 | 3495.5 | 3481.4 | 3460.4 | 3439.3 | 3411.2 | 3383.2 |
| 177.5° | 3649.9 | 3635.8 | 3649.9 | 3635.8 | 3628.8 | 3593.7 | 3614.8 | 3593.7 | 3586.7 | 3579.7 | 3558.6 |
| 180° | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 |



TEST NUMBER: P508464

CATALOG NUMBER: ASYX-X-S4-X-U-HSS-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° | 77.2 | 77.2 | 84.2 | 84.2 | 84.2 | 84.2 | 91.2 | 84.2 | 77.2 |
| 95° | 84.2 | 91.2 | 91.2 | 91.2 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 |
| 97.5° | 91.2 | 91.2 | 98.3 | 98.3 | 98.3 | 105.3 | 105.3 | 105.3 | 105.3 |
| 100° | 98.3 | 98.3 | 98.3 | 105.3 | 105.3 | 105.3 | 105.3 | 105.3 | 105.3 |
| 102.5° | 98.3 | 98.3 | 98.3 | 105.3 | 105.3 | 105.3 | 105.3 | 105.3 | 105.3 |
| 105° | 105.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 |
| 107.5° | 105.3 | 105.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 |
| 110° | 112.3 | 105.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 91.2 |
| 112.5° | 119.3 | 112.3 | 105.3 | 98.3 | 98.3 | 98.3 | 98.3 | 91.2 | 91.2 |
| 115° | 126.3 | 119.3 | 112.3 | 112.3 | 105.3 | 105.3 | 105.3 | 98.3 | 98.3 |
| 117.5° | 133.4 | 126.3 | 119.3 | 119.3 | 112.3 | 112.3 | 105.3 | 105.3 | 105.3 |
| 120° | 140.4 | 140.4 | 133.4 | 126.3 | 126.3 | 119.3 | 119.3 | 112.3 | 112.3 |
| 122.5° | 154.4 | 140.4 | 140.4 | 140.4 | 140.4 | 133.4 | 126.3 | 126.3 | 126.3 |
| 125° | 161.4 | 154.4 | 154.4 | 154.4 | 147.4 | 147.4 | 140.4 | 133.4 | 133.4 |
| 127.5° | 175.5 | 168.5 | 168.5 | 161.4 | 161.4 | 154.4 | 154.4 | 147.4 | 147.4 |
| 130° | 189.5 | 182.5 | 175.5 | 175.5 | 175.5 | 168.5 | 168.5 | 161.4 | 161.4 |
| 132.5° | 203.6 | 196.5 | 196.5 | 189.5 | 189.5 | 182.5 | 182.5 | 175.5 | 175.5 |
| 135° | 224.6 | 210.6 | 210.6 | 210.6 | 203.6 | 196.5 | 196.5 | 196.5 | 189.5 |
| 137.5° | 238.6 | 231.6 | 224.6 | 217.6 | 217.6 | 217.6 | 210.6 | 210.6 | 210.6 |
| 140° | 273.7 | 252.7 | 245.7 | 238.6 | 238.6 | 231.6 | 231.6 | 231.6 | 231.6 |
| 142.5° | 315.9 | 294.8 | 273.7 | 266.7 | 259.7 | 252.7 | 252.7 | 245.7 | 245.7 |
| 145° | 386.0 | 350.9 | 322.9 | 315.9 | 301.8 | 287.8 | 287.8 | 280.8 | 280.8 |
| 147.5° | 470.3 | 428.2 | 393.1 | 379.0 | 372.0 | 358.0 | 343.9 | 336.9 | 329.9 |
| 150° | 589.6 | 526.4 | 491.3 | 477.3 | 463.3 | 435.2 | 421.1 | 414.1 | 414.1 |
| 152.5° | 744.0 | 673.8 | 617.7 | 589.6 | 575.6 | 547.5 | 526.4 | 519.4 | 526.4 |
| 155° | 933.5 | 849.3 | 793.1 | 758.1 | 730.0 | 694.9 | 680.8 | 673.8 | 659.8 |
| 157.5° | 1200.2 | 1087.9 | 1003.7 | 975.6 | 940.5 | 905.5 | 884.4 | 863.3 | 849.3 |
| 160° | 1488.0 | 1361.7 | 1284.5 | 1249.4 | 1207.3 | 1151.1 | 1123.0 | 1095.0 | 1080.9 |
| 162.5° | 1803.9 | 1698.6 | 1607.4 | 1551.2 | 1530.1 | 1460.0 | 1431.9 | 1396.8 | 1403.8 |
| 165° | 2154.8 | 2042.5 | 1972.3 | 1930.2 | 1874.1 | 1839.0 | 1817.9 | 1768.8 | 1747.7 |
| 167.5° | 2526.8 | 2400.5 | 2365.4 | 2309.3 | 2260.1 | 2211.0 | 2211.0 | 2189.9 | 2168.9 |
| 170° | 2807.6 | 2779.5 | 2737.4 | 2674.2 | 2667.2 | 2632.1 | 2632.1 | 2611.1 | 2618.1 |
| 172.5° | 3074.3 | 3032.2 | 3032.2 | 3011.1 | 2990.1 | 2976.1 | 2941.0 | 2955.0 | 2955.0 |
| 175° | 3341.0 | 3320.0 | 3305.9 | 3249.8 | 3263.8 | 3263.8 | 3242.8 | 3242.8 | 3256.8 |
| 177.5° | 3558.6 | 3558.6 | 3544.6 | 3537.6 | 3530.6 | 3537.6 | 3544.6 | 3551.6 | 3537.6 |
| 180° | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 | 3663.9 |

(END OF REPORT)