

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: LUMARK

Report Number: P1436803

Luminaire Tested: XAS300-SFPM (4000K-180W-T4)

Issue Date: 3/25/2026

Test Information

Test Method: LM-79-2024
Report Number: P1436803
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA ()
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 3/25/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: XAS300-SFPM (4000K-180W-T4)
Description: XAS300 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 60% (180W)
OPTICS - TYPE 4
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

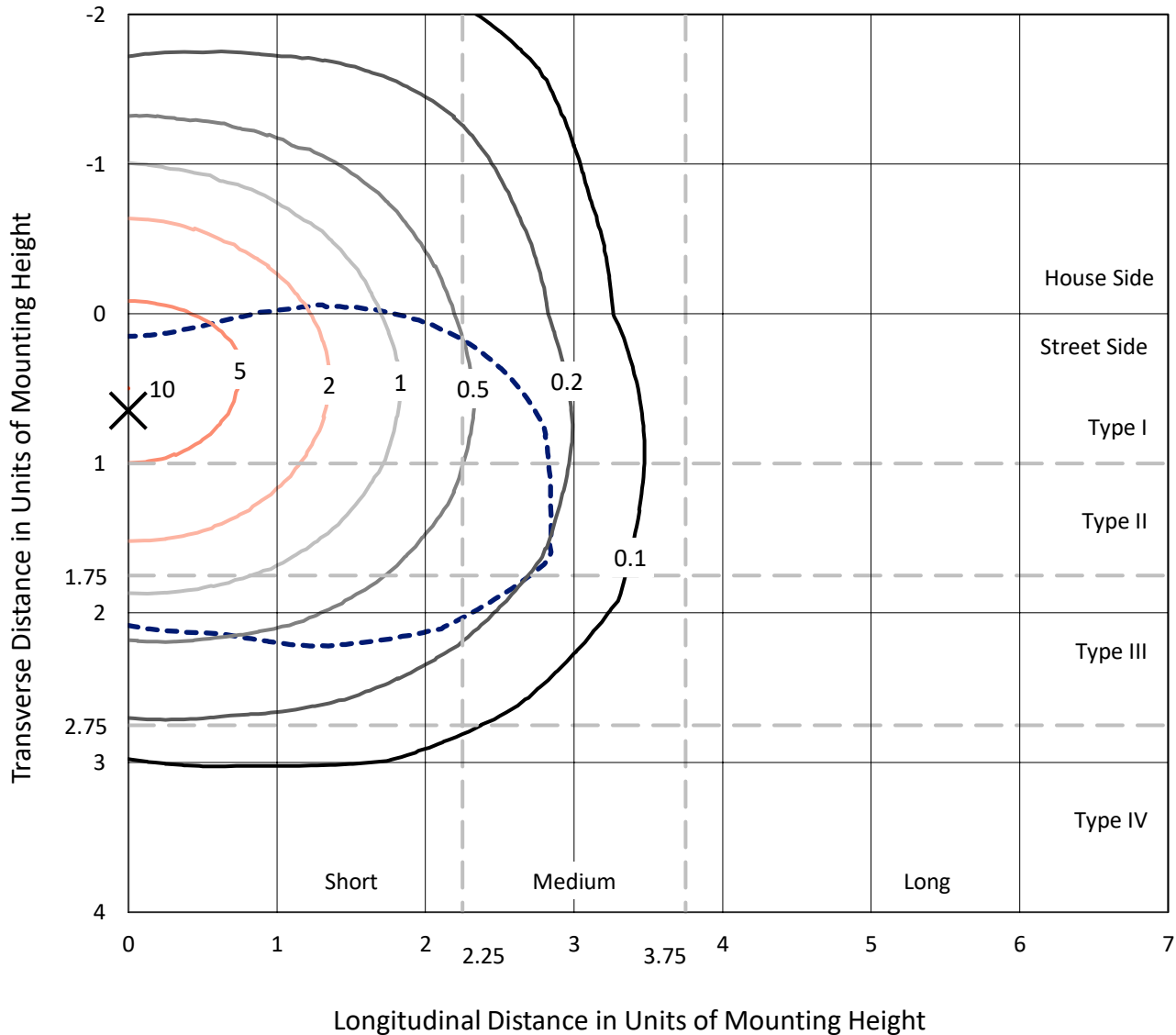
Lumens per Lamp: 38376 (1 lamp)
Luminaire Lumens: 30659.6 lumens
Efficiency: 79.9%
Efficacy: 172.8 lumens/watt
Luminous Opening: Rectangular (W 0.32m x L: 0.46m x H: 0m)
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 177.4
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: 28.75 FT

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 CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4)

Iso-Footcandle Lines of Horizontal Illumination

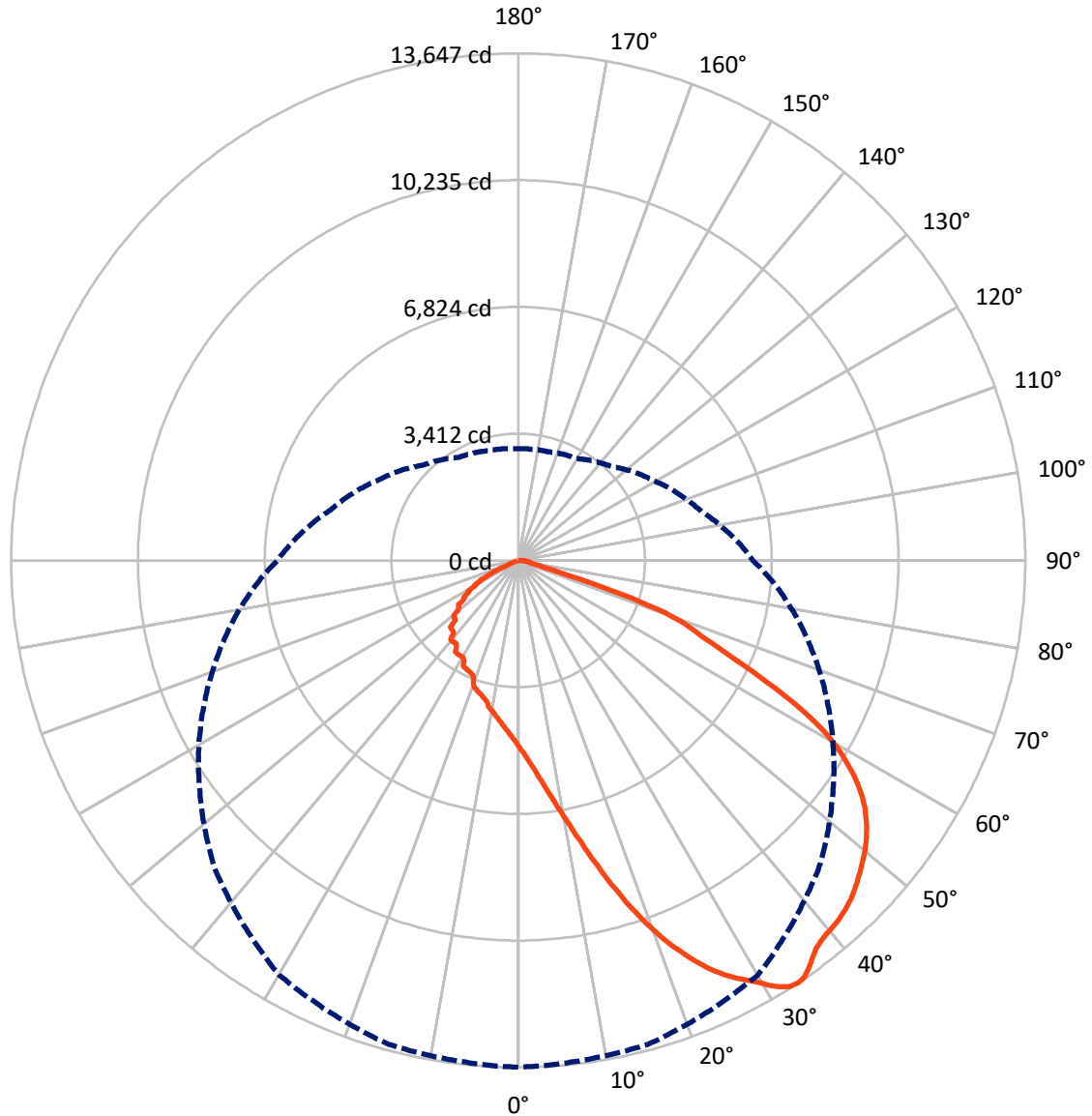
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 33-Deg Vertical

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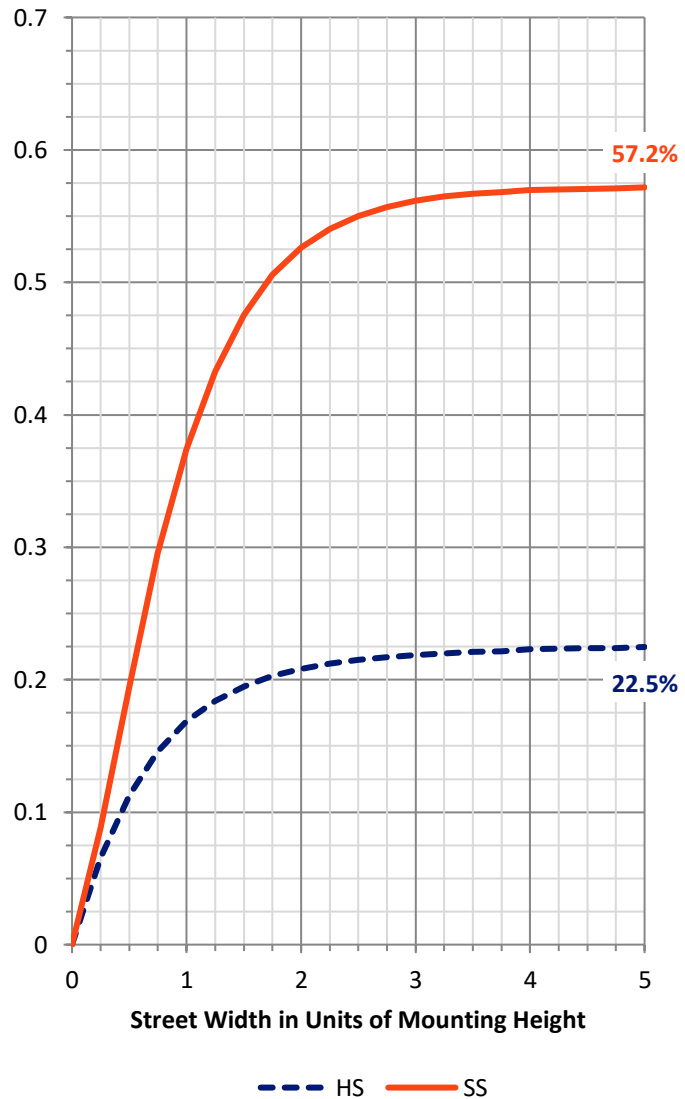
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|--------|----------|--------|---------|
| House Side | Lumens | 8681.0 | 0.0 | 8681.0 |
| | % Lamp | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 21978.6 | 0.0 | 21978.6 |
| | % Lamp | 57.3 | 0.0 | 57.3 |
| Total | Lumens | 30659.6 | 0.0 | 30659.6 |
| | % Lamp | 79.9 | 0.0 | 79.9 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|---------|-----------|--------|
| 0°-10° | 500.1 | 1.6 | 1.3 |
| 10°-20° | 1684.1 | 5.5 | 4.4 |
| 20°-30° | 3195.0 | 10.4 | 8.3 |
| 30°-40° | 4707.1 | 15.4 | 12.3 |
| 40°-50° | 5737.1 | 18.7 | 14.9 |
| 50°-60° | 6275.6 | 20.5 | 16.4 |
| 60°-70° | 5552.6 | 18.1 | 14.5 |
| 70°-80° | 2750.6 | 9.0 | 7.2 |
| 80°-90° | 257.4 | 0.8 | 0.7 |
| 90°-100° | 0.0 | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 | 0.0 |
| 0°-90° | 30659.6 | 100.0 | 79.9 |
| 0°-180° | 30659.6 | 100.0 | 79.9 |

Coefficient of Utilization



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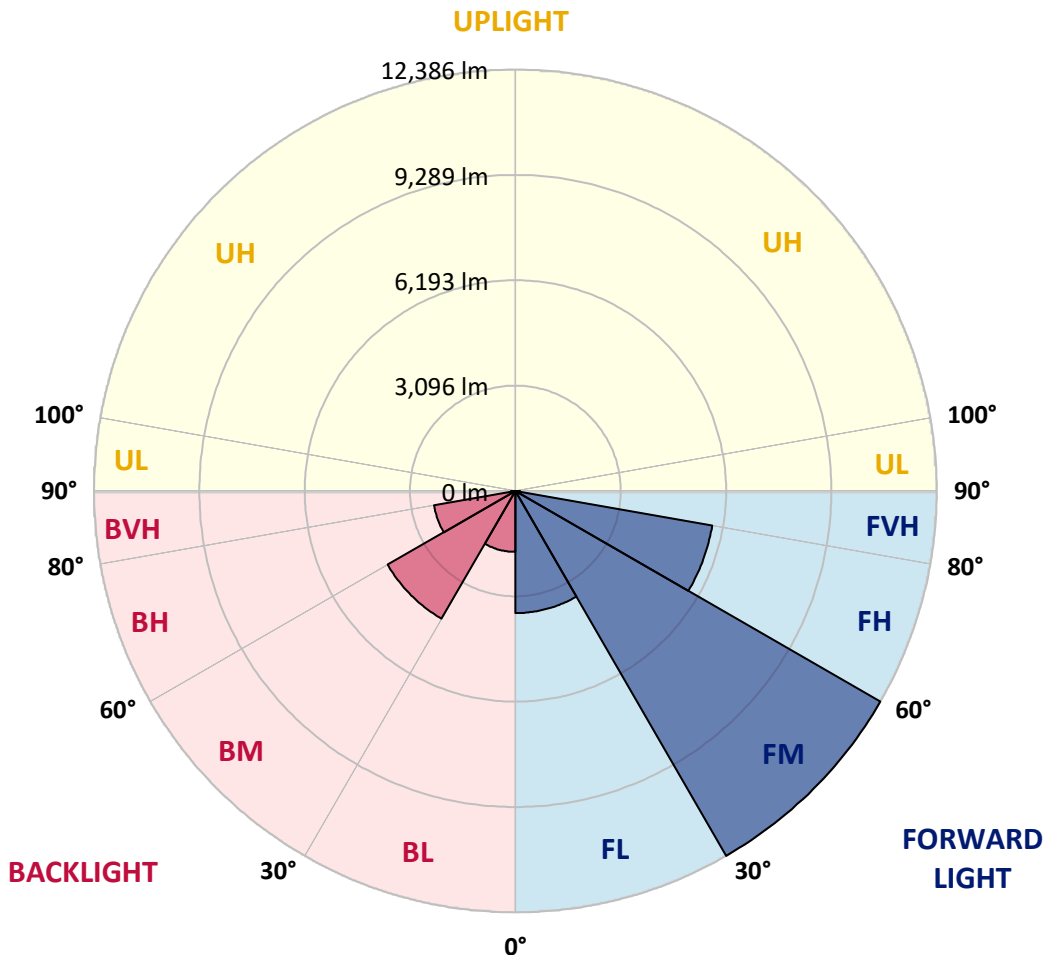
CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Lamp | Zone Rating/Lumen Limit | | |
|----------------|---------|--------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3588.2 | 9.4 | | | |
| FM (30°-60°) | 12385.8 | 32.3 | | | |
| FH (60°-80°) | 5874.0 | 15.3 | | | G3/7500 |
| FVH (80°-90°) | 130.6 | 0.3 | | | G2/225 |
| BL (0°-30°) | 1791.0 | 4.7 | B3/2500 | | |
| BM (30°-60°) | 4334.0 | 11.3 | B3/5000 | | |
| BH (60°-80°) | 2429.3 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 126.7 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |
| Trapped Light | 7716.4 | 20.1 | | | |

BUG Rating: B3-U0-G3

Type III Short





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CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4)

CANDELA DISTRIBUTION (FULL):

| | 0° | 15° | 30° | 45° | 60° | 75° | 90° | 105° | 120° | 135° | 150° |
|-----|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 0° | 5046.7 | 5046.7 | 5046.7 | 5046.7 | 5046.7 | 5046.7 | 5046.7 | 5046.7 | 5046.7 | 5046.7 | 5046.7 |
| 1° | 5177.0 | 5175.5 | 5163.3 | 5145.0 | 5119.6 | 5088.1 | 5039.4 | 5006.8 | 4976.2 | 4952.3 | 4934.4 |
| 2° | 5324.6 | 5316.2 | 5287.2 | 5243.9 | 5187.7 | 5123.7 | 5039.8 | 4974.9 | 4916.5 | 4869.1 | 4834.1 |
| 3° | 5484.4 | 5469.9 | 5422.4 | 5353.2 | 5262.4 | 5162.6 | 5044.8 | 4948.7 | 4863.9 | 4794.6 | 4743.5 |
| 4° | 5664.4 | 5640.0 | 5573.3 | 5473.6 | 5347.0 | 5211.5 | 5056.3 | 4928.8 | 4815.6 | 4724.1 | 4660.3 |
| 5° | 5861.1 | 5831.0 | 5738.4 | 5603.5 | 5442.2 | 5266.4 | 5074.2 | 4915.3 | 4773.3 | 4663.4 | 4583.0 |
| 6° | 6076.8 | 6036.4 | 5921.0 | 5749.8 | 5543.6 | 5325.2 | 5092.9 | 4904.0 | 4736.5 | 4606.0 | 4507.8 |
| 7° | 6308.3 | 6260.6 | 6117.8 | 5904.5 | 5652.4 | 5387.1 | 5115.2 | 4894.4 | 4702.8 | 4549.1 | 4438.8 |
| 8° | 6557.8 | 6498.9 | 6328.6 | 6074.8 | 5768.8 | 5453.7 | 5140.5 | 4887.7 | 4671.1 | 4497.3 | 4376.3 |
| 9° | 6826.3 | 6754.4 | 6556.5 | 6254.1 | 5894.3 | 5526.2 | 5170.0 | 4881.6 | 4639.4 | 4451.1 | 4316.9 |
| 10° | 7111.9 | 7028.8 | 6794.6 | 6447.1 | 6025.8 | 5603.1 | 5200.1 | 4878.7 | 4607.6 | 4408.6 | 4260.9 |
| 11° | 7419.5 | 7324.6 | 7056.5 | 6650.9 | 6166.2 | 5687.3 | 5234.3 | 4878.7 | 4579.7 | 4367.9 | 4208.8 |
| 12° | 7749.0 | 7636.5 | 7331.4 | 6864.4 | 6313.5 | 5774.8 | 5258.9 | 4868.9 | 4556.2 | 4326.8 | 4162.3 |
| 13° | 8102.6 | 7970.7 | 7616.1 | 7092.1 | 6473.2 | 5849.3 | 5282.5 | 4856.4 | 4522.2 | 4288.6 | 4117.9 |
| 14° | 8467.7 | 8324.7 | 7917.8 | 7330.6 | 6638.9 | 5928.8 | 5315.9 | 4849.5 | 4490.6 | 4254.9 | 4053.3 |
| 15° | 8848.8 | 8683.4 | 8231.3 | 7577.9 | 6793.5 | 6015.6 | 5352.3 | 4847.4 | 4460.4 | 4211.3 | 3966.2 |
| 16° | 9237.9 | 9053.3 | 8550.8 | 7831.5 | 6958.1 | 6108.1 | 5400.8 | 4857.7 | 4436.1 | 4171.2 | 3925.6 |
| 17° | 9628.6 | 9421.6 | 8877.6 | 8089.1 | 7125.4 | 6210.0 | 5443.0 | 4860.1 | 4419.9 | 4113.0 | 3894.5 |
| 18° | 10007.3 | 9788.4 | 9198.0 | 8347.1 | 7291.1 | 6317.8 | 5491.0 | 4868.7 | 4399.1 | 4047.1 | 3866.3 |
| 19° | 10380.4 | 10146.3 | 9516.7 | 8593.2 | 7469.4 | 6420.1 | 5547.2 | 4890.5 | 4387.3 | 4012.3 | 3842.6 |
| 20° | 10738.3 | 10489.0 | 9825.1 | 8828.1 | 7643.3 | 6530.7 | 5609.1 | 4913.7 | 4383.7 | 3984.8 | 3817.2 |
| 21° | 11077.0 | 10820.6 | 10119.1 | 9070.1 | 7827.2 | 6645.6 | 5672.2 | 4932.4 | 4383.4 | 3961.8 | 3787.8 |
| 22° | 11387.8 | 11132.1 | 10401.1 | 9292.2 | 7997.2 | 6770.4 | 5724.6 | 4930.9 | 4371.8 | 3947.9 | 3755.0 |
| 23° | 11689.8 | 11434.9 | 10679.1 | 9507.9 | 8176.1 | 6897.8 | 5754.8 | 4936.4 | 4347.7 | 3938.7 | 3726.6 |
| 24° | 11969.4 | 11722.5 | 10946.0 | 9718.8 | 8351.1 | 7013.1 | 5794.8 | 4958.7 | 4320.2 | 3919.9 | 3585.2 |
| 25° | 12237.8 | 11991.8 | 11204.0 | 9933.8 | 8520.5 | 7118.7 | 5852.5 | 4969.4 | 4302.1 | 3903.4 | 3478.0 |
| 26° | 12465.5 | 12235.4 | 11456.5 | 10135.1 | 8695.4 | 7210.1 | 5912.4 | 4976.5 | 4282.9 | 3888.7 | 3454.4 |
| 27° | 12665.3 | 12449.6 | 11696.2 | 10332.4 | 8869.6 | 7313.6 | 5950.7 | 4998.0 | 4285.6 | 3869.7 | 3438.1 |
| 28° | 12848.2 | 12641.3 | 11918.3 | 10522.6 | 9042.2 | 7434.3 | 6006.5 | 5021.6 | 4289.6 | 3839.3 | 3420.8 |
| 29° | 13042.3 | 12831.4 | 12114.8 | 10705.5 | 9199.5 | 7567.5 | 6073.7 | 5042.9 | 4286.3 | 3711.3 | 3397.1 |
| 30° | 13271.6 | 13051.9 | 12316.9 | 10894.1 | 9348.9 | 7683.3 | 6147.9 | 5045.1 | 4267.1 | 3627.1 | 3373.3 |
| 31° | 13459.4 | 13250.1 | 12528.6 | 11098.6 | 9473.6 | 7796.1 | 6218.3 | 5052.2 | 4264.7 | 3595.2 | 3357.9 |
| 32° | 13599.2 | 13405.9 | 12725.2 | 11311.1 | 9613.4 | 7909.5 | 6273.3 | 5074.7 | 4267.5 | 3574.5 | 3339.2 |
| 33° | 13647.1 | 13487.3 | 12891.4 | 11513.2 | 9781.2 | 8036.3 | 6323.4 | 5099.4 | 4254.2 | 3565.7 | 3161.7 |
| 34° | 13601.6 | 13467.4 | 12982.4 | 11695.4 | 9951.3 | 8176.1 | 6388.1 | 5112.4 | 4250.0 | 3562.5 | 3125.2 |
| 35° | 13475.4 | 13364.3 | 12969.6 | 11825.6 | 10111.9 | 8317.5 | 6465.3 | 5133.2 | 4253.6 | 3559.3 | 3110.3 |
| 36° | 13313.2 | 13222.1 | 12881.8 | 11903.1 | 10256.5 | 8451.8 | 6542.2 | 5170.0 | 4249.4 | 3546.2 | 3102.4 |
| 37° | 13168.6 | 13065.5 | 12761.1 | 11904.7 | 10344.4 | 8554.8 | 6597.0 | 5190.1 | 4245.1 | 3532.3 | 3106.8 |
| 38° | 13088.7 | 12961.7 | 12641.3 | 11857.6 | 10393.1 | 8644.3 | 6651.3 | 5207.2 | 4228.8 | 3500.6 | 3109.4 |
| 39° | 13042.3 | 12907.3 | 12558.2 | 11800.8 | 10399.5 | 8717.0 | 6730.8 | 5225.8 | 4117.4 | 3379.8 | 3102.8 |
| 40° | 13008.0 | 12870.6 | 12511.9 | 11758.5 | 10376.4 | 8760.1 | 6802.2 | 5240.9 | 4058.3 | 3387.0 | 3067.3 |
| 41° | 12968.0 | 12841.0 | 12482.3 | 11733.7 | 10370.8 | 8784.9 | 6852.4 | 5266.5 | 4077.0 | 3409.7 | 2945.4 |
| 42° | 12916.9 | 12809.1 | 12455.1 | 11713.7 | 10386.7 | 8807.3 | 6883.0 | 5274.0 | 4102.0 | 3417.2 | 2950.2 |
| 43° | 12852.2 | 12769.9 | 12426.4 | 11705.8 | 10408.3 | 8835.2 | 6899.8 | 5292.2 | 4106.5 | 3415.8 | 2944.7 |
| 44° | 12773.1 | 12722.0 | 12392.8 | 11707.4 | 10436.3 | 8859.2 | 6907.5 | 5299.7 | 4093.4 | 3429.0 | 2916.1 |



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CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4)

CANDELA DISTRIBUTION (continued):

| | 0° | 15° | 30° | 45° | 60° | 75° | 90° | 105° | 120° | 135° | 150° |
|-----|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 45° | 12678.0 | 12661.3 | 12349.7 | 11705.8 | 10469.0 | 8894.4 | 6924.0 | 5330.1 | 4108.8 | 3440.4 | 2896.2 |
| 46° | 12573.4 | 12586.2 | 12299.4 | 11692.2 | 10494.6 | 8941.5 | 6946.3 | 5328.8 | 4129.9 | 3407.0 | 2800.5 |
| 47° | 12463.1 | 12507.9 | 12241.0 | 11673.0 | 10515.4 | 8992.6 | 6954.8 | 5271.1 | 4127.3 | 3265.9 | 2689.2 |
| 48° | 12348.9 | 12422.4 | 12175.5 | 11657.0 | 10536.9 | 9037.4 | 6991.1 | 5269.3 | 4140.9 | 3249.4 | 2688.4 |
| 49° | 12235.4 | 12330.5 | 12098.8 | 11631.5 | 10561.7 | 9071.7 | 7032.2 | 5292.9 | 4077.4 | 3257.6 | 2678.9 |
| 50° | 12114.8 | 12234.6 | 12015.7 | 11588.3 | 10572.9 | 9101.3 | 7069.6 | 5318.2 | 3996.1 | 3254.2 | 2666.6 |
| 51° | 11978.2 | 12123.6 | 11922.3 | 11537.2 | 10587.3 | 9127.6 | 7101.3 | 5320.3 | 3999.0 | 3236.9 | 2519.8 |
| 52° | 11823.2 | 11995.8 | 11818.4 | 11479.7 | 10604.8 | 9141.2 | 7112.6 | 5333.7 | 3980.9 | 3163.0 | 2487.2 |
| 53° | 11651.4 | 11850.4 | 11706.6 | 11418.9 | 10610.4 | 9145.2 | 7068.0 | 5357.4 | 4006.0 | 3068.6 | 2497.4 |
| 54° | 11454.9 | 11673.8 | 11584.3 | 11348.6 | 10598.5 | 9152.4 | 7018.5 | 5332.5 | 4018.2 | 3074.2 | 2503.9 |
| 55° | 11231.2 | 11468.5 | 11454.1 | 11264.0 | 10568.9 | 9145.2 | 7001.4 | 5327.5 | 4018.1 | 3070.3 | 2412.9 |
| 56° | 10971.6 | 11229.6 | 11303.9 | 11167.3 | 10529.0 | 9123.7 | 6991.5 | 5315.5 | 3999.8 | 3049.5 | 2344.1 |
| 57° | 10679.1 | 10958.0 | 11129.7 | 11061.8 | 10482.6 | 9102.9 | 6976.7 | 5304.7 | 3945.3 | 2907.7 | 2345.5 |
| 58° | 10350.0 | 10651.2 | 10926.0 | 10947.6 | 10423.5 | 9090.9 | 6931.3 | 5254.8 | 3917.9 | 2933.7 | 2291.7 |
| 59° | 9990.5 | 10313.2 | 10706.3 | 10816.6 | 10358.8 | 9070.1 | 6892.9 | 5203.9 | 3919.4 | 2971.1 | 2180.0 |
| 60° | 9576.6 | 9940.9 | 10451.5 | 10667.2 | 10277.3 | 9037.4 | 6846.6 | 5185.5 | 3917.3 | 3001.7 | 2185.3 |
| 61° | 9057.3 | 9505.5 | 10170.2 | 10489.0 | 10173.4 | 8982.2 | 6791.6 | 5138.3 | 3900.7 | 2901.5 | 2076.8 |
| 62° | 8440.6 | 8992.6 | 9848.3 | 10282.1 | 10056.0 | 8907.1 | 6701.4 | 5091.9 | 3854.6 | 2891.1 | 2054.7 |
| 63° | 7740.4 | 8407.8 | 9486.4 | 10043.2 | 9918.6 | 8789.7 | 6600.1 | 5029.6 | 3860.0 | 2902.4 | 2009.8 |
| 64° | 7026.1 | 7783.8 | 9073.3 | 9781.2 | 9757.2 | 8633.1 | 6475.9 | 4948.9 | 3835.4 | 2845.9 | 1925.9 |
| 65° | 6376.0 | 7166.9 | 8621.9 | 9491.2 | 9577.4 | 8447.0 | 6356.1 | 4897.9 | 3748.1 | 2852.2 | 1856.5 |
| 66° | 5812.5 | 6565.7 | 8139.4 | 9156.4 | 9368.1 | 8280.0 | 6200.9 | 4812.8 | 3739.0 | 2803.2 | 1825.3 |
| 67° | 5369.5 | 6019.2 | 7649.0 | 8791.3 | 9130.0 | 8091.4 | 6021.6 | 4708.8 | 3771.5 | 2796.6 | 1723.9 |
| 68° | 5013.4 | 5543.9 | 7157.4 | 8379.1 | 8854.4 | 7863.8 | 5757.4 | 4579.5 | 3803.8 | 2802.0 | 1650.1 |
| 69° | 4659.1 | 5135.1 | 6658.3 | 7933.5 | 8525.3 | 7590.8 | 5495.4 | 4422.1 | 3768.9 | 2791.2 | 1576.3 |
| 70° | 4107.2 | 4713.7 | 6165.8 | 7471.3 | 8152.2 | 7241.6 | 5091.8 | 4195.7 | 3682.7 | 2802.9 | 1503.2 |
| 71° | 3231.3 | 4165.7 | 5685.6 | 7000.8 | 7746.6 | 6790.3 | 4558.9 | 3885.5 | 3615.6 | 2796.9 | 1477.4 |
| 72° | 2196.5 | 3407.4 | 5201.8 | 6532.1 | 7308.6 | 6287.7 | 4036.6 | 3558.0 | 3542.2 | 2859.2 | 1467.3 |
| 73° | 1283.9 | 2487.8 | 4677.1 | 6055.7 | 6832.5 | 5679.0 | 3547.8 | 3268.9 | 3395.5 | 2832.8 | 1422.2 |
| 74° | 725.0 | 1591.8 | 4102.2 | 5570.2 | 6294.8 | 5017.8 | 3097.1 | 3028.9 | 3243.5 | 2825.2 | 1428.3 |
| 75° | 604.8 | 935.7 | 3461.2 | 5038.4 | 5702.4 | 4301.9 | 2559.8 | 2778.8 | 3106.5 | 2801.4 | 1399.1 |
| 76° | 499.8 | 758.9 | 2747.5 | 4426.3 | 5022.0 | 3540.2 | 1800.2 | 2420.2 | 2991.3 | 2733.7 | 1329.0 |
| 77° | 394.8 | 585.2 | 2071.9 | 3663.9 | 4256.6 | 2626.2 | 1042.7 | 1810.7 | 2884.6 | 2593.5 | 1223.1 |
| 78° | 352.7 | 411.5 | 1552.8 | 2726.8 | 3395.9 | 1673.5 | 482.0 | 1201.3 | 2796.5 | 2366.0 | 1083.2 |
| 79° | 324.4 | 362.9 | 1135.7 | 1737.1 | 2531.6 | 876.5 | 240.5 | 594.4 | 2535.6 | 1978.4 | 938.8 |
| 80° | 299.0 | 325.8 | 818.3 | 940.6 | 1696.4 | 661.3 | 207.0 | 442.7 | 1880.3 | 1590.8 | 825.0 |
| 81° | 275.0 | 293.0 | 654.7 | 732.5 | 959.6 | 447.6 | 173.6 | 290.9 | 1225.0 | 1205.6 | 842.9 |
| 82° | 252.0 | 264.7 | 493.2 | 544.2 | 711.7 | 233.9 | 140.1 | 141.3 | 574.3 | 987.5 | 791.8 |
| 83° | 228.9 | 240.2 | 331.7 | 355.8 | 470.4 | 193.7 | 119.8 | 112.2 | 431.5 | 842.5 | 634.0 |
| 84° | 204.8 | 214.6 | 280.2 | 312.4 | 229.0 | 165.2 | 99.9 | 88.0 | 288.6 | 666.7 | 436.2 |
| 85° | 180.7 | 188.7 | 223.3 | 272.4 | 180.2 | 136.5 | 80.7 | 68.3 | 146.3 | 474.6 | 288.2 |
| 86° | 155.8 | 163.6 | 175.3 | 232.1 | 144.2 | 107.1 | 62.0 | 51.7 | 122.8 | 380.4 | 204.7 |
| 87° | 130.1 | 139.7 | 144.7 | 186.9 | 113.3 | 80.6 | 44.2 | 38.0 | 96.1 | 286.2 | 121.3 |
| 88° | 106.6 | 115.7 | 115.9 | 133.8 | 86.4 | 60.6 | 31.2 | 27.1 | 62.8 | 191.9 | 73.9 |
| 89° | 87.9 | 91.6 | 87.7 | 78.8 | 66.4 | 40.8 | 18.2 | 16.2 | 43.3 | 97.7 | 50.5 |



REPORT NUMBER: P1436803

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4)

CANDELA DISTRIBUTION (continued):

| | 0° | 15° | 30° | 45° | 60° | 75° | 90° | 105° | 120° | 135° | 150° |
|------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 91° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 93° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 94° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 96° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 98° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 99° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 101° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 103° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 104° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 106° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 108° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 109° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 111° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 112° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 113° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 114° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 116° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 118° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 119° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 121° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 123° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 124° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 126° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 128° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 129° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 131° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 133° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 134° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P1436803

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4)

CANDELA DISTRIBUTION (continued):

| | 0° | 15° | 30° | 45° | 60° | 75° | 90° | 105° | 120° | 135° | 150° |
|------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 136° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 138° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 139° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 141° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 143° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 144° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 146° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 148° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 149° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 151° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 153° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 154° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 156° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 158° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 159° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 161° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 163° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 164° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 166° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 168° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 169° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 171° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 173° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 174° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 176° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 178° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 179° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P1436803

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4)

CANDELA DISTRIBUTION (continued):

| | | | | | | | | | | | |
|------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| | 0° | 15° | 30° | 45° | 60° | 75° | 90° | 105° | 120° | 135° | 150° |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P1436803

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4)

CANDELA DISTRIBUTION (continued):

| | 165° | 180° | 195° | 210° | 225° | 240° | 255° | 270° | 285° | 300° | 315° |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 5046.7 | 5046.7 | 5046.7 | 5046.7 | 5046.7 | 5046.7 | 5046.7 | 5046.7 | 5046.7 | 5046.7 | 5046.7 |
| 1° | 4924.9 | 4923.3 | 4931.6 | 4948.4 | 4970.6 | 5000.0 | 5031.2 | 5050.0 | 5080.3 | 5110.0 | 5136.4 |
| 2° | 4815.0 | 4810.2 | 4823.3 | 4852.2 | 4893.5 | 4947.3 | 5007.7 | 5060.9 | 5123.4 | 5186.3 | 5241.7 |
| 3° | 4714.0 | 4706.5 | 4722.6 | 4761.5 | 4820.8 | 4898.3 | 4988.3 | 5074.3 | 5170.8 | 5267.4 | 5356.1 |
| 4° | 4621.6 | 4611.2 | 4631.7 | 4678.4 | 4753.8 | 4853.6 | 4971.2 | 5092.9 | 5224.4 | 5356.8 | 5479.1 |
| 5° | 4534.3 | 4521.3 | 4544.8 | 4601.7 | 4691.9 | 4812.7 | 4957.6 | 5112.8 | 5279.3 | 5453.7 | 5615.0 |
| 6° | 4450.9 | 4435.9 | 4461.2 | 4525.5 | 4632.3 | 4773.9 | 4947.0 | 5136.2 | 5338.7 | 5554.7 | 5760.2 |
| 7° | 4372.9 | 4356.2 | 4383.7 | 4456.0 | 4572.5 | 4737.9 | 4938.0 | 5161.9 | 5403.3 | 5664.8 | 5914.3 |
| 8° | 4301.5 | 4280.5 | 4311.4 | 4393.6 | 4519.8 | 4702.4 | 4930.2 | 5188.3 | 5471.7 | 5781.1 | 6078.9 |
| 9° | 4231.4 | 4206.1 | 4240.7 | 4332.0 | 4472.8 | 4666.9 | 4922.7 | 5217.6 | 5543.2 | 5904.3 | 6256.7 |
| 10° | 4165.2 | 4137.9 | 4174.8 | 4272.1 | 4427.6 | 4633.2 | 4919.0 | 5249.5 | 5619.6 | 6034.0 | 6445.0 |
| 11° | 4106.8 | 4076.6 | 4112.8 | 4217.6 | 4383.6 | 4604.8 | 4918.1 | 5288.2 | 5701.6 | 6172.8 | 6646.6 |
| 12° | 4054.5 | 4010.7 | 4056.1 | 4167.1 | 4342.2 | 4582.4 | 4906.2 | 5313.0 | 5788.9 | 6318.8 | 6858.6 |
| 13° | 3957.0 | 3890.7 | 3959.4 | 4119.1 | 4301.1 | 4547.0 | 4899.6 | 5344.2 | 5863.2 | 6476.8 | 7085.1 |
| 14° | 3880.0 | 3840.1 | 3880.7 | 4055.1 | 4265.4 | 4516.9 | 4892.9 | 5372.6 | 5943.4 | 6636.5 | 7320.3 |
| 15° | 3839.6 | 3796.3 | 3837.4 | 3961.4 | 4221.6 | 4489.6 | 4893.2 | 5411.7 | 6026.7 | 6789.9 | 7571.4 |
| 16° | 3801.3 | 3755.9 | 3798.0 | 3922.5 | 4183.9 | 4469.9 | 4897.2 | 5460.5 | 6119.6 | 6953.1 | 7827.4 |
| 17° | 3767.7 | 3718.2 | 3764.4 | 3890.7 | 4135.4 | 4449.2 | 4905.2 | 5504.4 | 6227.8 | 7121.1 | 8093.8 |
| 18° | 3731.4 | 3675.8 | 3727.4 | 3863.0 | 4071.3 | 4434.2 | 4918.9 | 5554.6 | 6324.3 | 7298.8 | 8349.5 |
| 19° | 3695.0 | 3635.7 | 3692.1 | 3841.4 | 4029.8 | 4430.2 | 4942.4 | 5617.7 | 6433.7 | 7478.0 | 8599.6 |
| 20° | 3658.3 | 3591.5 | 3658.6 | 3816.3 | 4004.3 | 4432.3 | 4966.9 | 5683.7 | 6543.7 | 7666.9 | 8849.6 |
| 21° | 3616.9 | 3439.4 | 3621.5 | 3786.2 | 3987.8 | 4432.5 | 4983.8 | 5742.8 | 6667.9 | 7851.1 | 9086.9 |
| 22° | 3430.5 | 3327.8 | 3445.9 | 3757.7 | 3977.9 | 4423.1 | 4988.8 | 5795.1 | 6795.8 | 8036.3 | 9313.8 |
| 23° | 3358.0 | 3296.8 | 3373.2 | 3735.5 | 3968.9 | 4407.1 | 5005.3 | 5833.4 | 6919.8 | 8222.5 | 9539.9 |
| 24° | 3331.4 | 3275.2 | 3349.8 | 3595.1 | 3951.9 | 4391.7 | 5035.2 | 5882.7 | 7035.1 | 8405.4 | 9762.8 |
| 25° | 3314.5 | 3257.4 | 3333.6 | 3500.7 | 3935.7 | 4378.6 | 5047.7 | 5950.0 | 7137.3 | 8590.0 | 9969.7 |
| 26° | 3298.6 | 3238.5 | 3319.6 | 3486.0 | 3926.0 | 4357.5 | 5065.4 | 6008.2 | 7243.1 | 8772.1 | 10180.6 |
| 27° | 3281.3 | 3224.7 | 3304.6 | 3473.5 | 3904.4 | 4366.7 | 5094.0 | 6058.9 | 7360.8 | 8953.5 | 10384.3 |
| 28° | 3268.6 | 3208.0 | 3293.1 | 3455.2 | 3878.3 | 4373.3 | 5122.5 | 6123.5 | 7496.1 | 9122.9 | 10590.5 |
| 29° | 3253.7 | 3067.0 | 3279.6 | 3433.3 | 3754.8 | 4361.5 | 5140.7 | 6200.2 | 7632.4 | 9288.2 | 10790.2 |
| 30° | 3092.2 | 3009.2 | 3115.7 | 3414.7 | 3673.3 | 4345.3 | 5145.4 | 6278.8 | 7748.6 | 9441.6 | 10993.1 |
| 31° | 3045.7 | 3003.0 | 3070.8 | 3398.4 | 3641.0 | 4345.1 | 5166.0 | 6350.8 | 7883.7 | 9594.2 | 11209.6 |
| 32° | 3037.4 | 3003.2 | 3062.7 | 3379.0 | 3626.5 | 4348.8 | 5197.1 | 6409.7 | 8029.9 | 9758.8 | 11407.8 |
| 33° | 3032.2 | 3001.9 | 3058.4 | 3201.6 | 3622.3 | 4333.8 | 5230.9 | 6484.7 | 8188.9 | 9924.2 | 11601.1 |
| 34° | 3026.2 | 2995.7 | 3051.6 | 3165.7 | 3620.1 | 4332.5 | 5245.3 | 6573.2 | 8331.1 | 10091.1 | 11763.3 |
| 35° | 3015.7 | 2989.7 | 3041.1 | 3150.5 | 3616.7 | 4332.7 | 5276.9 | 6660.5 | 8456.6 | 10247.7 | 11871.1 |
| 36° | 3003.9 | 2876.1 | 3027.8 | 3144.9 | 3601.5 | 4327.7 | 5314.3 | 6744.4 | 8566.0 | 10353.2 | 11909.5 |
| 37° | 2885.4 | 2795.0 | 2894.0 | 3149.8 | 3589.2 | 4320.6 | 5338.6 | 6801.6 | 8656.3 | 10410.7 | 11895.9 |
| 38° | 2789.7 | 2796.9 | 2813.8 | 3150.3 | 3551.9 | 4306.0 | 5359.3 | 6862.9 | 8725.8 | 10425.1 | 11840.8 |
| 39° | 2783.2 | 2804.8 | 2806.4 | 3149.5 | 3435.4 | 4199.2 | 5364.7 | 6928.2 | 8773.7 | 10412.3 | 11777.7 |
| 40° | 2781.6 | 2808.4 | 2801.2 | 3105.8 | 3454.7 | 4144.6 | 5371.1 | 6971.1 | 8802.5 | 10405.1 | 11733.7 |
| 41° | 2767.1 | 2795.4 | 2784.2 | 2995.9 | 3478.9 | 4161.3 | 5377.0 | 7001.8 | 8816.9 | 10412.3 | 11708.2 |
| 42° | 2736.7 | 2641.0 | 2753.8 | 3000.2 | 3477.1 | 4182.9 | 5384.6 | 7029.4 | 8842.4 | 10427.5 | 11703.4 |
| 43° | 2584.5 | 2588.3 | 2604.7 | 2988.2 | 3480.8 | 4169.5 | 5401.3 | 7052.4 | 8869.6 | 10449.1 | 11713.7 |
| 44° | 2524.3 | 2584.3 | 2551.1 | 2959.9 | 3491.8 | 4161.3 | 5417.9 | 7068.6 | 8907.1 | 10473.8 | 11718.5 |



REPORT NUMBER: P1436803

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4)

CANDELA DISTRIBUTION (continued):

| | 165° | 180° | 195° | 210° | 225° | 240° | 255° | 270° | 285° | 300° | 315° |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 45° | 2519.3 | 2575.6 | 2546.9 | 2940.9 | 3503.0 | 4177.4 | 5446.9 | 7095.5 | 8951.1 | 10497.8 | 11715.3 |
| 46° | 2510.5 | 2559.4 | 2535.6 | 2823.9 | 3452.0 | 4204.4 | 5426.3 | 7113.5 | 8996.6 | 10529.0 | 11712.1 |
| 47° | 2487.4 | 2338.0 | 2516.7 | 2744.5 | 3324.3 | 4208.5 | 5373.9 | 7129.8 | 9035.0 | 10564.1 | 11701.8 |
| 48° | 2295.1 | 2316.9 | 2326.7 | 2744.2 | 3314.4 | 4223.5 | 5383.0 | 7167.3 | 9067.7 | 10592.1 | 11681.8 |
| 49° | 2283.9 | 2299.9 | 2322.7 | 2729.6 | 3323.3 | 4141.9 | 5409.0 | 7200.7 | 9102.1 | 10613.6 | 11645.8 |
| 50° | 2282.1 | 2283.3 | 2323.3 | 2722.2 | 3315.0 | 4089.2 | 5429.8 | 7229.0 | 9132.4 | 10635.2 | 11599.5 |
| 51° | 2279.6 | 2101.9 | 2323.7 | 2567.6 | 3301.1 | 4093.7 | 5432.7 | 7251.2 | 9148.4 | 10646.4 | 11551.6 |
| 52° | 2140.9 | 2037.4 | 2175.8 | 2546.8 | 3190.2 | 4085.0 | 5445.4 | 7249.2 | 9154.0 | 10648.0 | 11500.4 |
| 53° | 2097.7 | 2024.3 | 2138.9 | 2559.3 | 3139.5 | 4112.5 | 5460.9 | 7189.1 | 9160.4 | 10636.8 | 11438.1 |
| 54° | 2085.3 | 1997.9 | 2125.8 | 2570.6 | 3147.3 | 4115.5 | 5440.3 | 7134.2 | 9150.8 | 10608.8 | 11366.2 |
| 55° | 2058.0 | 1785.6 | 2088.0 | 2456.9 | 3146.9 | 4116.4 | 5435.5 | 7114.0 | 9126.0 | 10570.5 | 11290.3 |
| 56° | 1885.3 | 1784.4 | 1926.0 | 2411.9 | 3125.1 | 4110.7 | 5416.8 | 7100.2 | 9097.3 | 10529.7 | 11200.0 |
| 57° | 1888.7 | 1680.5 | 1931.9 | 2412.9 | 3000.6 | 4039.7 | 5403.6 | 7079.9 | 9076.5 | 10477.0 | 11089.8 |
| 58° | 1770.6 | 1578.0 | 1803.1 | 2334.6 | 3034.4 | 4029.7 | 5329.5 | 7029.1 | 9050.2 | 10412.3 | 10957.2 |
| 59° | 1701.6 | 1582.3 | 1747.2 | 2258.6 | 3075.8 | 4030.1 | 5299.6 | 6980.5 | 9015.0 | 10336.4 | 10804.6 |
| 60° | 1642.6 | 1353.0 | 1690.3 | 2272.2 | 3103.2 | 4024.4 | 5256.2 | 6917.8 | 8960.7 | 10242.1 | 10636.8 |
| 61° | 1583.5 | 1355.9 | 1633.4 | 2153.2 | 3006.9 | 3995.2 | 5201.7 | 6865.6 | 8891.2 | 10135.9 | 10454.7 |
| 62° | 1520.3 | 1149.4 | 1573.8 | 2143.5 | 3002.5 | 3947.5 | 5140.6 | 6778.3 | 8776.1 | 10006.5 | 10251.7 |
| 63° | 1322.6 | 1141.3 | 1374.0 | 2083.3 | 2995.1 | 3944.1 | 5068.7 | 6673.3 | 8627.5 | 9854.7 | 10019.2 |
| 64° | 1309.8 | 891.8 | 1346.8 | 2019.3 | 2958.3 | 3905.7 | 4990.7 | 6541.8 | 8446.2 | 9681.3 | 9751.6 |
| 65° | 1111.1 | 790.1 | 1154.7 | 1939.0 | 2970.0 | 3808.7 | 4912.5 | 6410.7 | 8276.0 | 9484.0 | 9445.6 |
| 66° | 965.5 | 639.5 | 995.0 | 1925.9 | 2921.3 | 3823.1 | 4816.5 | 6219.8 | 8085.1 | 9261.1 | 9110.1 |
| 67° | 878.5 | 425.9 | 869.4 | 1824.8 | 2913.5 | 3847.0 | 4693.2 | 6012.8 | 7862.9 | 9011.0 | 8737.8 |
| 68° | 694.9 | 212.2 | 717.2 | 1742.5 | 2905.4 | 3860.8 | 4538.5 | 5704.4 | 7608.4 | 8721.0 | 8347.9 |
| 69° | 462.1 | 0.5 | 482.6 | 1660.3 | 2895.0 | 3780.0 | 4357.4 | 5366.8 | 7291.3 | 8393.4 | 7926.9 |
| 70° | 447.6 | 0.4 | 464.3 | 1579.9 | 2908.9 | 3674.0 | 4079.5 | 4874.7 | 6906.4 | 8019.5 | 7469.2 |
| 71° | 446.7 | 0.4 | 448.0 | 1556.9 | 2895.1 | 3574.7 | 3722.2 | 4303.0 | 6406.8 | 7609.5 | 6976.6 |
| 72° | 425.0 | 0.4 | 414.7 | 1537.5 | 2951.0 | 3472.7 | 3387.6 | 3777.7 | 5869.0 | 7165.8 | 6492.6 |
| 73° | 382.1 | 0.4 | 354.4 | 1477.7 | 2903.6 | 3310.3 | 3133.1 | 3304.4 | 5216.9 | 6658.0 | 5997.0 |
| 74° | 329.1 | 0.4 | 281.1 | 1455.1 | 2836.7 | 3161.2 | 2908.1 | 2804.2 | 4522.0 | 6073.9 | 5492.8 |
| 75° | 264.0 | 0.4 | 232.2 | 1395.5 | 2768.3 | 3047.2 | 2564.0 | 2129.4 | 3797.6 | 5413.4 | 4936.8 |
| 76° | 198.4 | 0.4 | 214.7 | 1305.6 | 2621.5 | 2939.3 | 1943.1 | 1317.5 | 2996.4 | 4694.4 | 4322.3 |
| 77° | 150.8 | 0.5 | 239.0 | 1188.1 | 2406.2 | 2826.4 | 1322.1 | 635.1 | 2068.2 | 3900.2 | 3540.1 |
| 78° | 163.0 | 0.5 | 273.2 | 1049.8 | 2130.9 | 2586.7 | 708.0 | 417.0 | 1173.2 | 3043.2 | 2538.3 |
| 79° | 225.3 | 0.6 | 220.3 | 935.9 | 1800.3 | 1953.8 | 296.1 | 210.7 | 862.4 | 2209.0 | 1539.3 |
| 80° | 236.4 | 0.7 | 167.4 | 875.1 | 1469.7 | 1320.9 | 221.4 | 178.5 | 558.1 | 1428.4 | 785.0 |
| 81° | 189.5 | 0.8 | 114.4 | 818.7 | 1143.5 | 688.1 | 148.0 | 155.5 | 253.9 | 780.2 | 629.7 |
| 82° | 142.6 | 0.9 | 60.8 | 698.3 | 955.3 | 508.3 | 118.8 | 134.2 | 211.0 | 580.9 | 491.0 |
| 83° | 95.9 | 1.0 | 32.0 | 451.0 | 739.8 | 328.4 | 96.4 | 114.1 | 181.6 | 396.6 | 352.3 |
| 84° | 55.8 | 1.1 | 25.5 | 325.2 | 484.9 | 149.6 | 78.2 | 94.4 | 154.5 | 212.3 | 309.4 |
| 85° | 33.8 | 1.3 | 18.9 | 199.5 | 346.5 | 123.9 | 61.9 | 75.3 | 126.9 | 167.0 | 269.3 |
| 86° | 26.1 | 1.5 | 12.5 | 76.9 | 208.2 | 99.3 | 47.1 | 56.5 | 99.0 | 132.8 | 228.0 |
| 87° | 18.3 | 1.7 | 10.6 | 45.0 | 71.0 | 73.5 | 34.3 | 37.7 | 74.3 | 103.6 | 181.2 |
| 88° | 10.6 | 1.9 | 8.6 | 31.2 | 48.7 | 50.5 | 24.3 | 22.1 | 53.8 | 78.2 | 123.5 |
| 89° | 6.6 | 2.1 | 6.0 | 17.4 | 26.4 | 27.5 | 14.2 | 9.7 | 33.4 | 60.9 | 69.6 |



REPORT NUMBER: P1436803

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4)

CANDELA DISTRIBUTION (continued):

| | 165° | 180° | 195° | 210° | 225° | 240° | 255° | 270° | 285° | 300° | 315° |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 91° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 93° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 94° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 96° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 98° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 99° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 101° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 103° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 104° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 106° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 108° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 109° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 111° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 112° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 113° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 114° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 116° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 118° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 119° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 121° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 123° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 124° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 126° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 128° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 129° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 131° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 133° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 134° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P1436803

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4)

CANDELA DISTRIBUTION (continued):

| | 165° | 180° | 195° | 210° | 225° | 240° | 255° | 270° | 285° | 300° | 315° |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 136° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 138° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 139° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 141° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 143° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 144° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 146° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 148° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 149° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 151° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 153° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 154° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 156° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 158° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 159° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 161° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 163° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 164° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 166° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 168° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 169° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 171° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 173° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 174° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 176° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 178° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 179° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P1436803

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4)

CANDELA DISTRIBUTION (continued):

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| | 165° | 180° | 195° | 210° | 225° | 240° | 255° | 270° | 285° | 300° | 315° |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P1436803

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4)

CANDELA DISTRIBUTION (continued):

| | 330° | 345° | 360° |
|-----|---------|---------|---------|
| 0° | 5046.7 | 5046.7 | 5046.7 |
| 1° | 5158.1 | 5170.5 | 5177.0 |
| 2° | 5286.4 | 5314.5 | 5324.6 |
| 3° | 5425.5 | 5470.4 | 5484.4 |
| 4° | 5578.7 | 5643.9 | 5664.4 |
| 5° | 5746.7 | 5833.1 | 5861.1 |
| 6° | 5927.6 | 6041.1 | 6076.8 |
| 7° | 6125.0 | 6262.4 | 6308.3 |
| 8° | 6331.2 | 6500.4 | 6557.8 |
| 9° | 6557.5 | 6756.1 | 6826.3 |
| 10° | 6795.0 | 7030.7 | 7111.9 |
| 11° | 7050.6 | 7325.0 | 7419.5 |
| 12° | 7321.1 | 7634.8 | 7749.0 |
| 13° | 7609.0 | 7969.1 | 8102.6 |
| 14° | 7908.8 | 8319.1 | 8467.7 |
| 15° | 8224.1 | 8680.3 | 8848.8 |
| 16° | 8547.6 | 9052.5 | 9237.9 |
| 17° | 8885.6 | 9431.2 | 9628.6 |
| 18° | 9213.9 | 9805.9 | 10007.3 |
| 19° | 9535.1 | 10163.0 | 10380.4 |
| 20° | 9848.3 | 10507.4 | 10738.3 |
| 21° | 10151.1 | 10835.7 | 11077.0 |
| 22° | 10433.9 | 11140.1 | 11387.8 |
| 23° | 10707.9 | 11441.3 | 11689.8 |
| 24° | 10971.6 | 11733.7 | 11969.4 |
| 25° | 11233.6 | 12007.7 | 12237.8 |
| 26° | 11493.2 | 12262.6 | 12465.5 |
| 27° | 11737.7 | 12479.9 | 12665.3 |
| 28° | 11953.4 | 12668.5 | 12848.2 |
| 29° | 12153.2 | 12860.2 | 13042.3 |
| 30° | 12356.1 | 13075.9 | 13271.6 |
| 31° | 12567.8 | 13274.0 | 13459.4 |
| 32° | 12755.5 | 13417.0 | 13599.2 |
| 33° | 12881.8 | 13484.2 | 13647.1 |
| 34° | 12938.5 | 13467.4 | 13601.6 |
| 35° | 12916.1 | 13364.3 | 13475.4 |
| 36° | 12844.2 | 13215.7 | 13313.2 |
| 37° | 12728.4 | 13062.3 | 13168.6 |
| 38° | 12619.7 | 12963.3 | 13088.7 |
| 39° | 12548.6 | 12907.3 | 13042.3 |
| 40° | 12503.9 | 12876.2 | 13008.0 |
| 41° | 12475.1 | 12849.8 | 12968.0 |
| 42° | 12444.0 | 12819.5 | 12916.9 |
| 43° | 12412.8 | 12785.1 | 12852.2 |
| 44° | 12381.6 | 12739.6 | 12773.1 |



REPORT NUMBER: P1436803
 CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4)

CANDELA DISTRIBUTION (continued):

| | 330° | 345° | 360° |
|-----|---------|---------|---------|
| 45° | 12344.1 | 12677.2 | 12678.0 |
| 46° | 12301.8 | 12599.7 | 12573.4 |
| 47° | 12254.6 | 12515.1 | 12463.1 |
| 48° | 12197.1 | 12423.2 | 12348.9 |
| 49° | 12122.8 | 12330.5 | 12235.4 |
| 50° | 12033.3 | 12234.6 | 12114.8 |
| 51° | 11935.8 | 12128.4 | 11978.2 |
| 52° | 11826.4 | 12005.4 | 11823.2 |
| 53° | 11712.9 | 11856.0 | 11651.4 |
| 54° | 11594.7 | 11679.4 | 11454.9 |
| 55° | 11469.3 | 11470.9 | 11231.2 |
| 56° | 11322.3 | 11233.6 | 10971.6 |
| 57° | 11149.7 | 10969.2 | 10679.1 |
| 58° | 10941.2 | 10656.0 | 10350.0 |
| 59° | 10711.1 | 10316.4 | 9990.5 |
| 60° | 10453.1 | 9948.1 | 9576.6 |
| 61° | 10159.1 | 9530.3 | 9057.3 |
| 62° | 9833.9 | 9024.6 | 8440.6 |
| 63° | 9474.4 | 8440.6 | 7740.4 |
| 64° | 9085.3 | 7804.2 | 7026.1 |
| 65° | 8645.9 | 7174.5 | 6376.0 |
| 66° | 8171.3 | 6588.1 | 5812.5 |
| 67° | 7681.1 | 6061.8 | 5369.5 |
| 68° | 7175.5 | 5583.9 | 5013.4 |
| 69° | 6696.5 | 5157.5 | 4659.1 |
| 70° | 6239.6 | 4736.3 | 4107.2 |
| 71° | 5765.6 | 4216.4 | 3231.3 |
| 72° | 5248.7 | 3491.0 | 2196.5 |
| 73° | 4730.5 | 2576.4 | 1283.9 |
| 74° | 4184.8 | 1707.6 | 725.0 |
| 75° | 3494.2 | 1039.1 | 604.8 |
| 76° | 2751.5 | 834.2 | 499.8 |
| 77° | 2104.3 | 630.9 | 394.8 |
| 78° | 1589.9 | 427.7 | 352.7 |
| 79° | 1174.3 | 370.2 | 324.4 |
| 80° | 792.7 | 330.6 | 299.0 |
| 81° | 638.3 | 296.8 | 275.0 |
| 82° | 485.7 | 268.4 | 252.0 |
| 83° | 333.1 | 245.8 | 228.9 |
| 84° | 279.0 | 219.0 | 204.8 |
| 85° | 220.7 | 190.6 | 180.7 |
| 86° | 176.3 | 164.6 | 155.8 |
| 87° | 144.1 | 139.7 | 130.1 |
| 88° | 114.2 | 115.4 | 106.6 |
| 89° | 84.9 | 91.1 | 87.9 |



REPORT NUMBER: P1436803
CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4)

CANDELA DISTRIBUTION (continued):

| | 330° | 345° | 360° |
|------|------|------|------|
| 90° | 0.0 | 0.0 | 0.0 |
| 91° | 0.0 | 0.0 | 0.0 |
| 92° | 0.0 | 0.0 | 0.0 |
| 93° | 0.0 | 0.0 | 0.0 |
| 94° | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 |
| 96° | 0.0 | 0.0 | 0.0 |
| 97° | 0.0 | 0.0 | 0.0 |
| 98° | 0.0 | 0.0 | 0.0 |
| 99° | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 |
| 101° | 0.0 | 0.0 | 0.0 |
| 102° | 0.0 | 0.0 | 0.0 |
| 103° | 0.0 | 0.0 | 0.0 |
| 104° | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 |
| 106° | 0.0 | 0.0 | 0.0 |
| 107° | 0.0 | 0.0 | 0.0 |
| 108° | 0.0 | 0.0 | 0.0 |
| 109° | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 |
| 111° | 0.0 | 0.0 | 0.0 |
| 112° | 0.0 | 0.0 | 0.0 |
| 113° | 0.0 | 0.0 | 0.0 |
| 114° | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 |
| 116° | 0.0 | 0.0 | 0.0 |
| 117° | 0.0 | 0.0 | 0.0 |
| 118° | 0.0 | 0.0 | 0.0 |
| 119° | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 |
| 121° | 0.0 | 0.0 | 0.0 |
| 122° | 0.0 | 0.0 | 0.0 |
| 123° | 0.0 | 0.0 | 0.0 |
| 124° | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 |
| 126° | 0.0 | 0.0 | 0.0 |
| 127° | 0.0 | 0.0 | 0.0 |
| 128° | 0.0 | 0.0 | 0.0 |
| 129° | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 |
| 131° | 0.0 | 0.0 | 0.0 |
| 132° | 0.0 | 0.0 | 0.0 |
| 133° | 0.0 | 0.0 | 0.0 |
| 134° | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P1436803
CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4)

CANDELA DISTRIBUTION (continued):

| | 330° | 345° | 360° |
|------|------|------|------|
| 135° | 0.0 | 0.0 | 0.0 |
| 136° | 0.0 | 0.0 | 0.0 |
| 137° | 0.0 | 0.0 | 0.0 |
| 138° | 0.0 | 0.0 | 0.0 |
| 139° | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 |
| 141° | 0.0 | 0.0 | 0.0 |
| 142° | 0.0 | 0.0 | 0.0 |
| 143° | 0.0 | 0.0 | 0.0 |
| 144° | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 |
| 146° | 0.0 | 0.0 | 0.0 |
| 147° | 0.0 | 0.0 | 0.0 |
| 148° | 0.0 | 0.0 | 0.0 |
| 149° | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 |
| 151° | 0.0 | 0.0 | 0.0 |
| 152° | 0.0 | 0.0 | 0.0 |
| 153° | 0.0 | 0.0 | 0.0 |
| 154° | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 |
| 156° | 0.0 | 0.0 | 0.0 |
| 157° | 0.0 | 0.0 | 0.0 |
| 158° | 0.0 | 0.0 | 0.0 |
| 159° | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 |
| 161° | 0.0 | 0.0 | 0.0 |
| 162° | 0.0 | 0.0 | 0.0 |
| 163° | 0.0 | 0.0 | 0.0 |
| 164° | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 |
| 166° | 0.0 | 0.0 | 0.0 |
| 167° | 0.0 | 0.0 | 0.0 |
| 168° | 0.0 | 0.0 | 0.0 |
| 169° | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 |
| 171° | 0.0 | 0.0 | 0.0 |
| 172° | 0.0 | 0.0 | 0.0 |
| 173° | 0.0 | 0.0 | 0.0 |
| 174° | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 |
| 176° | 0.0 | 0.0 | 0.0 |
| 177° | 0.0 | 0.0 | 0.0 |
| 178° | 0.0 | 0.0 | 0.0 |
| 179° | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P1436803

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4)

CANDELA DISTRIBUTION (continued):

| | | | |
|------|------|------|------|
| | 330° | 345° | 360° |
| 180° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)