

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: P1436802

Luminaire Tested: XAS300-SFPM (4000K-180W-T3-HSS)

Issue Date: 3/25/2026

Test Information

Test Method: LM-79-2024
Report Number: P1436802
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-T3-HSS)
Description: XAS300 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 60% (180W)
OPTICS - TYPE 3 WITH HOUSE SIDE SHIELD
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 38695 (1 lamp)
Luminaire Lumens: 25270.2 lumens
Efficiency: 65.3%
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 0.32m x L: 0.46m x H: 0m)
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

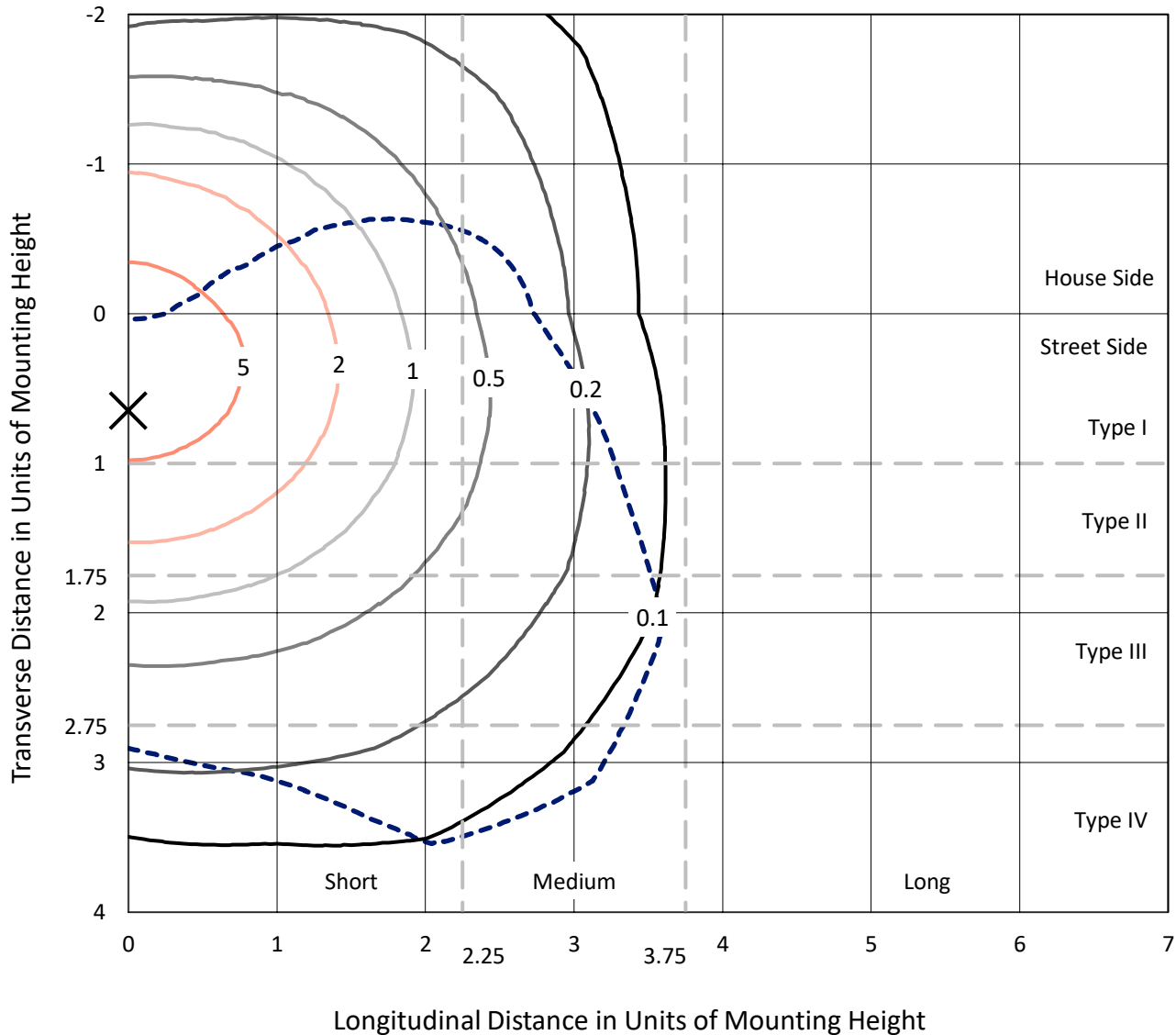
Input Watts (W): 181.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1436802

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3-HSS)

Iso-Footcandle Lines of Horizontal Illumination

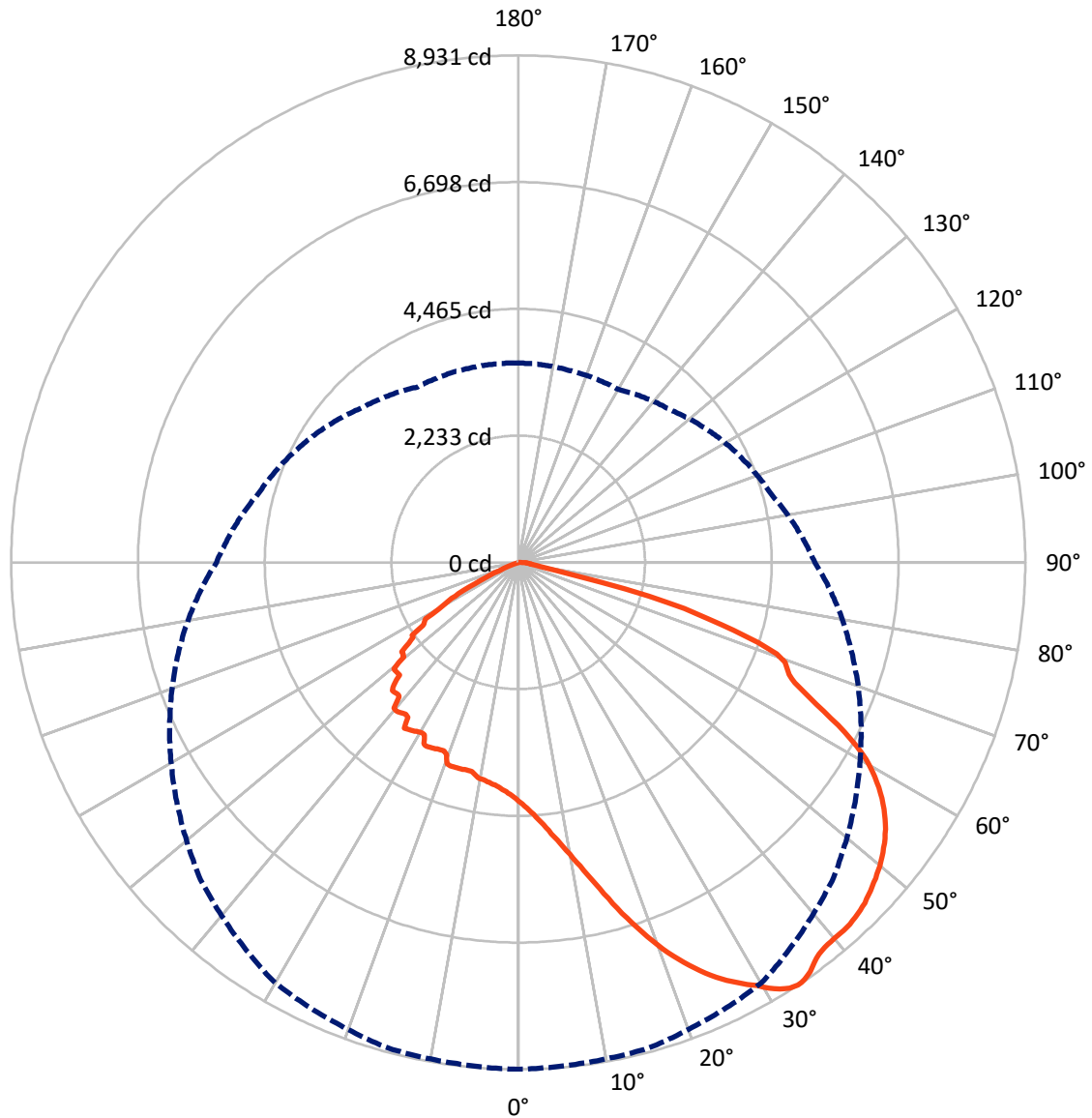
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type IV - Short - Full Cutoff

REPORT NUMBER: P1436802
CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3-HSS)

Luminous Intensity Polar Plot



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

REPORT NUMBER: P1436802

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3-HSS)

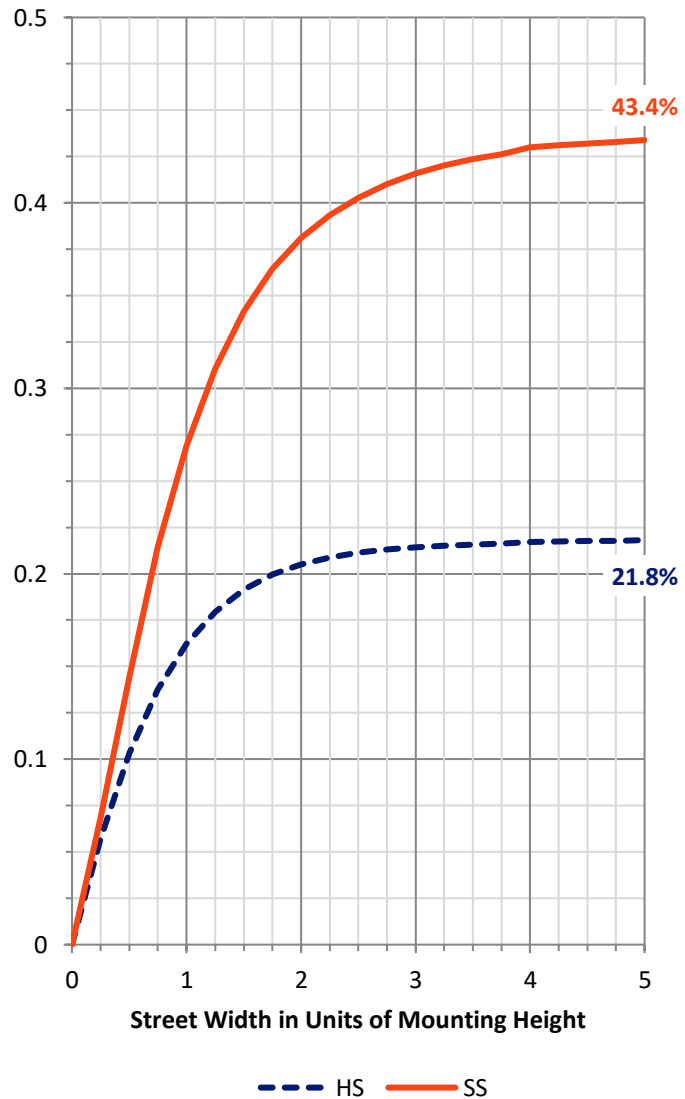
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|--------|----------|--------|---------|
| House Side | Lumens | 8485.7 | 0.0 | 8485.7 |
| | % Lamp | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 16784.5 | 0.0 | 16784.5 |
| | % Lamp | 43.4 | 0.0 | 43.4 |
| Total | Lumens | 25270.2 | 0.0 | 25270.2 |
| | % Lamp | 65.3 | 0.0 | 65.3 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|---------|-----------|--------|
| 0°-10° | 415.6 | 1.6 | 1.1 |
| 10°-20° | 1362.1 | 5.4 | 3.5 |
| 20°-30° | 2509.9 | 9.9 | 6.5 |
| 30°-40° | 3660.3 | 14.5 | 9.5 |
| 40°-50° | 4517.7 | 17.9 | 11.7 |
| 50°-60° | 5045.7 | 20.0 | 13.0 |
| 60°-70° | 4726.1 | 18.7 | 12.2 |
| 70°-80° | 2802.7 | 11.1 | 7.2 |
| 80°-90° | 230.1 | 0.9 | 0.6 |
| 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° | 25270.2 | 100.0 | 65.3 |
| 0°-180° | 25270.2 | 100.0 | 65.3 |

Coefficient of Utilization



REPORT NUMBER: P1436802

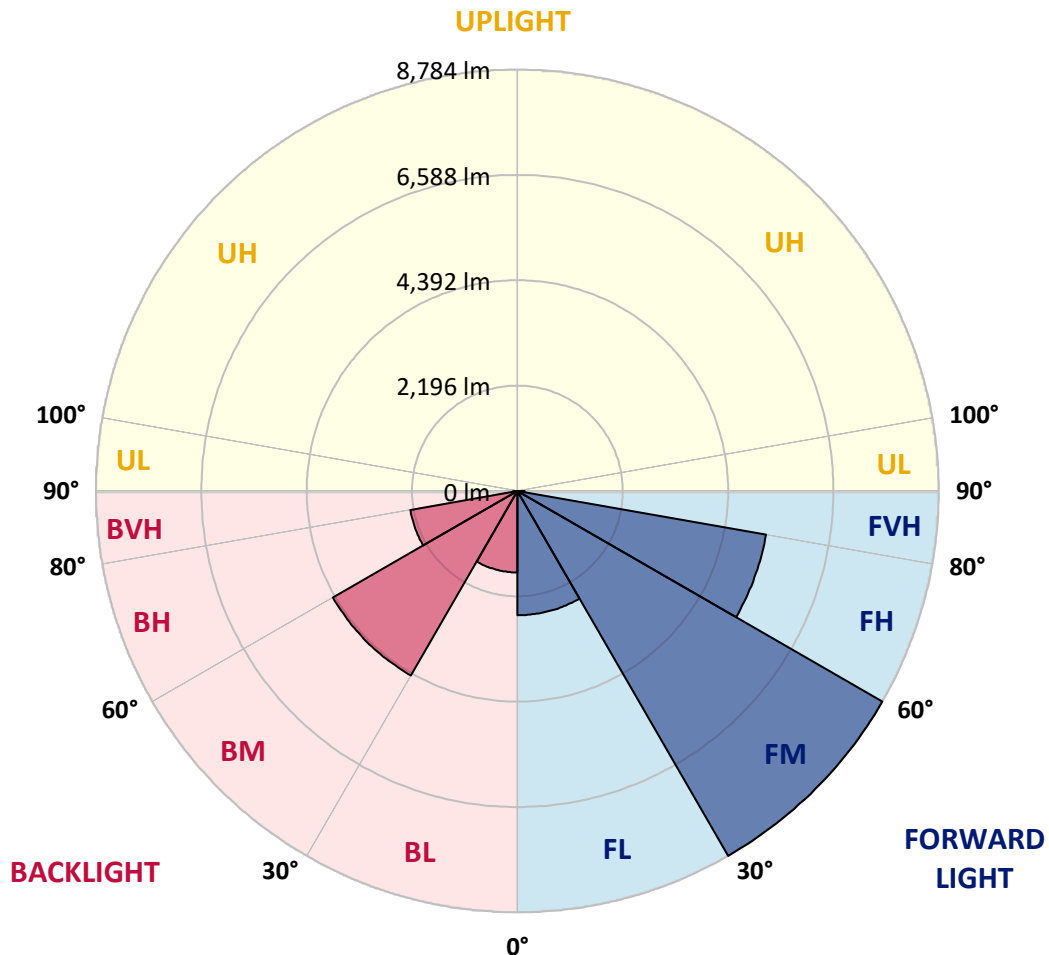
CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3-HSS)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Lamp | Zone Rating/Lumen Limit | | |
|----------------|---------|--------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2589.9 | 6.7 | | | |
| FM (30°-60°) | 8783.6 | 22.7 | | | |
| FH (60°-80°) | 5261.7 | 13.6 | | | G3/7500 |
| FVH (80°-90°) | 149.3 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1697.8 | 4.4 | B3/2500 | | |
| BM (30°-60°) | 4440.1 | 11.5 | B3/5000 | | |
| BH (60°-80°) | 2267.0 | 5.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 80.8 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |
| Trapped Light | 13424.8 | 34.7 | | | |

BUG Rating: B3-U0-G3

Type IV Short





REPORT NUMBER: P1436802

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (FULL):

| | 0° | 15° | 30° | 45° | 60° | 75° | 90° | 105° | 120° | 135° | 150° |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4228.7 | 4228.7 | 4228.7 | 4228.7 | 4228.7 | 4228.7 | 4228.7 | 4228.7 | 4228.7 | 4228.7 | 4228.7 |
| 1° | 4293.1 | 4293.4 | 4288.2 | 4280.0 | 4268.6 | 4252.9 | 4222.5 | 4206.5 | 4191.8 | 4180.9 | 4172.2 |
| 2° | 4368.1 | 4365.2 | 4350.8 | 4329.3 | 4303.3 | 4271.4 | 4224.3 | 4192.6 | 4164.1 | 4141.0 | 4124.1 |
| 3° | 4450.1 | 4444.0 | 4420.7 | 4386.4 | 4342.6 | 4293.6 | 4229.5 | 4182.4 | 4140.8 | 4106.4 | 4083.2 |
| 4° | 4542.8 | 4532.0 | 4499.2 | 4450.4 | 4388.3 | 4321.5 | 4239.3 | 4176.4 | 4120.4 | 4076.6 | 4046.9 |
| 5° | 4644.5 | 4629.4 | 4584.2 | 4519.1 | 4439.8 | 4353.4 | 4253.7 | 4174.5 | 4105.5 | 4052.1 | 4015.8 |
| 6° | 4754.6 | 4734.9 | 4679.1 | 4596.6 | 4496.0 | 4387.4 | 4269.2 | 4175.3 | 4093.5 | 4030.6 | 3986.5 |
| 7° | 4875.8 | 4852.5 | 4782.2 | 4680.8 | 4555.8 | 4423.5 | 4285.9 | 4176.9 | 4084.3 | 4011.9 | 3964.2 |
| 8° | 5003.7 | 4975.2 | 4893.6 | 4770.7 | 4620.2 | 4463.5 | 4305.6 | 4180.7 | 4076.6 | 3997.6 | 3947.3 |
| 9° | 5145.2 | 5109.7 | 5013.9 | 4867.0 | 4689.9 | 4507.0 | 4327.9 | 4185.8 | 4069.6 | 3988.7 | 3932.7 |
| 10° | 5297.8 | 5256.3 | 5141.8 | 4970.1 | 4763.9 | 4552.9 | 4350.5 | 4191.8 | 4063.5 | 3981.5 | 3920.7 |
| 11° | 5460.0 | 5411.9 | 5281.1 | 5082.0 | 4842.2 | 4602.4 | 4376.6 | 4200.4 | 4061.5 | 3976.0 | 3910.7 |
| 12° | 5634.5 | 5578.9 | 5427.6 | 5199.2 | 4924.4 | 4654.6 | 4394.3 | 4201.5 | 4063.7 | 3971.6 | 3905.3 |
| 13° | 5826.5 | 5759.4 | 5583.8 | 5324.6 | 5012.7 | 4698.3 | 4414.2 | 4203.7 | 4055.9 | 3968.9 | 3899.6 |
| 14° | 6027.0 | 5949.0 | 5746.2 | 5454.7 | 5106.3 | 4746.0 | 4438.1 | 4206.9 | 4051.2 | 3969.4 | 3857.6 |
| 15° | 6234.4 | 6148.4 | 5917.8 | 5588.0 | 5192.7 | 4796.6 | 4465.2 | 4216.4 | 4047.0 | 3960.8 | 3831.4 |
| 16° | 6446.7 | 6346.6 | 6093.6 | 5728.4 | 5285.7 | 4852.9 | 4502.2 | 4233.5 | 4048.5 | 3947.0 | 3832.1 |
| 17° | 6657.3 | 6550.9 | 6271.0 | 5872.0 | 5381.3 | 4915.2 | 4535.3 | 4245.9 | 4054.2 | 3914.7 | 3837.3 |
| 18° | 6865.7 | 6750.1 | 6449.4 | 6018.3 | 5475.2 | 4982.7 | 4572.7 | 4263.9 | 4059.0 | 3895.5 | 3844.5 |
| 19° | 7070.1 | 6945.3 | 6626.7 | 6161.3 | 5577.6 | 5046.9 | 4617.4 | 4291.0 | 4069.9 | 3895.1 | 3855.0 |
| 20° | 7268.0 | 7137.3 | 6798.4 | 6290.3 | 5679.4 | 5115.3 | 4665.6 | 4320.7 | 4087.9 | 3898.4 | 3863.9 |
| 21° | 7453.4 | 7320.9 | 6964.9 | 6430.0 | 5788.1 | 5190.9 | 4713.3 | 4344.5 | 4105.0 | 3904.4 | 3865.0 |
| 22° | 7629.1 | 7494.6 | 7124.9 | 6556.1 | 5888.6 | 5271.4 | 4753.3 | 4353.5 | 4109.8 | 3920.0 | 3864.3 |
| 23° | 7795.6 | 7663.7 | 7282.3 | 6680.2 | 5994.4 | 5353.7 | 4777.9 | 4369.7 | 4093.9 | 3934.9 | 3832.4 |
| 24° | 7954.3 | 7823.1 | 7434.5 | 6803.6 | 6098.8 | 5427.8 | 4810.5 | 4399.0 | 4098.5 | 3942.2 | 3704.6 |
| 25° | 8102.6 | 7979.1 | 7582.7 | 6927.7 | 6202.2 | 5495.0 | 4855.7 | 4416.2 | 4102.7 | 3950.0 | 3660.1 |
| 26° | 8233.2 | 8115.6 | 7727.1 | 7045.9 | 6307.8 | 5552.4 | 4900.3 | 4434.3 | 4107.8 | 3962.8 | 3666.8 |
| 27° | 8347.5 | 8239.7 | 7864.2 | 7161.5 | 6412.8 | 5618.2 | 4932.9 | 4464.5 | 4130.5 | 3964.5 | 3677.4 |
| 28° | 8457.8 | 8351.4 | 7993.5 | 7275.1 | 6515.8 | 5695.8 | 4977.3 | 4495.4 | 4153.0 | 3889.3 | 3684.3 |
| 29° | 8568.9 | 8464.4 | 8110.4 | 7381.6 | 6609.7 | 5779.1 | 5033.5 | 4520.5 | 4162.1 | 3817.6 | 3689.8 |
| 30° | 8703.4 | 8593.0 | 8226.7 | 7491.3 | 6699.1 | 5851.3 | 5091.0 | 4535.4 | 4167.3 | 3783.6 | 3697.0 |
| 31° | 8813.8 | 8711.2 | 8348.1 | 7610.8 | 6771.0 | 5922.0 | 5142.6 | 4556.1 | 4185.4 | 3776.4 | 3707.7 |
| 32° | 8897.4 | 8804.6 | 8461.8 | 7735.6 | 6854.6 | 5995.7 | 5184.5 | 4586.9 | 4206.1 | 3780.7 | 3620.1 |
| 33° | 8930.7 | 8858.8 | 8560.4 | 7853.1 | 6953.8 | 6077.7 | 5226.0 | 4615.6 | 4209.3 | 3795.5 | 3519.0 |
| 34° | 8912.4 | 8852.9 | 8617.8 | 7960.9 | 7058.3 | 6165.1 | 5278.3 | 4633.0 | 4222.8 | 3812.3 | 3511.3 |
| 35° | 8851.6 | 8802.7 | 8617.2 | 8041.2 | 7157.6 | 6254.1 | 5338.0 | 4659.1 | 4234.9 | 3824.2 | 3516.5 |
| 36° | 8770.0 | 8729.5 | 8574.1 | 8092.1 | 7245.8 | 6336.6 | 5396.1 | 4691.0 | 4243.7 | 3827.2 | 3528.9 |
| 37° | 8698.2 | 8647.2 | 8512.0 | 8101.3 | 7303.9 | 6399.8 | 5439.6 | 4714.6 | 4237.9 | 3823.2 | 3550.5 |
| 38° | 8666.8 | 8595.0 | 8453.3 | 8083.6 | 7339.8 | 6458.2 | 5485.9 | 4736.3 | 4166.6 | 3726.3 | 3560.5 |
| 39° | 8657.0 | 8570.2 | 8414.1 | 8059.5 | 7351.6 | 6509.1 | 5548.0 | 4756.8 | 4113.4 | 3673.4 | 3564.5 |
| 40° | 8654.4 | 8557.1 | 8395.8 | 8044.5 | 7350.2 | 6545.7 | 5607.0 | 4778.2 | 4097.3 | 3697.3 | 3440.8 |
| 41° | 8651.8 | 8549.9 | 8386.7 | 8039.2 | 7360.7 | 6573.8 | 5652.0 | 4793.2 | 4125.0 | 3722.0 | 3388.4 |
| 42° | 8643.3 | 8542.7 | 8381.4 | 8037.9 | 7383.6 | 6601.8 | 5684.0 | 4801.7 | 4152.5 | 3721.9 | 3405.3 |
| 43° | 8624.4 | 8534.3 | 8377.5 | 8044.5 | 7410.3 | 6626.7 | 5706.4 | 4829.4 | 4143.0 | 3730.5 | 3400.9 |
| 44° | 8596.3 | 8521.2 | 8370.3 | 8056.9 | 7439.7 | 6652.8 | 5724.8 | 4856.5 | 4144.3 | 3753.8 | 3397.1 |



REPORT NUMBER: P1436802

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

| | 0° | 15° | 30° | 45° | 60° | 75° | 90° | 105° | 120° | 135° | 150° |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 45° | 8556.5 | 8500.3 | 8359.2 | 8069.3 | 7467.1 | 6687.4 | 5747.4 | 4890.9 | 4167.6 | 3770.3 | 3396.1 |
| 46° | 8510.7 | 8473.5 | 8344.9 | 8077.1 | 7494.6 | 6729.2 | 5770.2 | 4879.5 | 4193.7 | 3663.1 | 3230.6 |
| 47° | 8457.8 | 8444.1 | 8327.9 | 8083.0 | 7522.0 | 6772.9 | 5787.3 | 4849.2 | 4199.2 | 3587.5 | 3187.5 |
| 48° | 8403.0 | 8409.5 | 8308.9 | 8090.2 | 7548.8 | 6814.1 | 5819.9 | 4863.7 | 4195.9 | 3593.8 | 3199.6 |
| 49° | 8344.2 | 8374.3 | 8284.8 | 8092.8 | 7580.1 | 6852.6 | 5857.0 | 4893.5 | 4119.2 | 3616.6 | 3199.4 |
| 50° | 8280.2 | 8337.7 | 8256.7 | 8086.3 | 7603.6 | 6887.2 | 5890.2 | 4914.5 | 4082.5 | 3615.2 | 3179.5 |
| 51° | 8209.7 | 8293.3 | 8222.7 | 8073.8 | 7631.1 | 6916.6 | 5916.7 | 4920.8 | 4089.1 | 3609.6 | 2999.9 |
| 52° | 8128.7 | 8241.7 | 8184.9 | 8062.7 | 7661.1 | 6944.0 | 5914.8 | 4940.0 | 4090.0 | 3480.5 | 2997.0 |
| 53° | 8041.2 | 8179.6 | 8141.8 | 8050.3 | 7686.6 | 6963.6 | 5884.1 | 4949.4 | 4119.9 | 3443.1 | 3019.0 |
| 54° | 7943.2 | 8103.9 | 8098.0 | 8034.7 | 7699.6 | 6981.9 | 5851.6 | 4938.1 | 4119.1 | 3450.3 | 3036.3 |
| 55° | 7832.2 | 8015.7 | 8047.7 | 8015.1 | 7704.2 | 6993.0 | 5846.9 | 4931.2 | 4113.1 | 3446.6 | 2860.5 |
| 56° | 7704.2 | 7910.6 | 7987.6 | 7987.6 | 7704.2 | 6997.6 | 5848.1 | 4915.6 | 4080.4 | 3382.9 | 2821.9 |
| 57° | 7564.5 | 7791.1 | 7916.5 | 7956.3 | 7702.2 | 7004.8 | 5841.6 | 4901.8 | 4018.8 | 3278.8 | 2823.5 |
| 58° | 7408.4 | 7652.6 | 7830.9 | 7921.0 | 7693.8 | 7015.2 | 5816.3 | 4849.9 | 4006.2 | 3311.4 | 2688.3 |
| 59° | 7238.6 | 7496.5 | 7737.5 | 7879.2 | 7681.4 | 7019.8 | 5790.8 | 4825.7 | 3997.4 | 3349.0 | 2609.5 |
| 60° | 7040.0 | 7320.2 | 7625.2 | 7827.0 | 7659.1 | 7013.9 | 5764.0 | 4787.5 | 3981.7 | 3322.9 | 2603.4 |
| 61° | 6788.6 | 7114.5 | 7501.8 | 7760.4 | 7627.1 | 6991.1 | 5722.7 | 4743.3 | 3946.1 | 3218.6 | 2414.3 |
| 62° | 6489.2 | 6865.0 | 7360.7 | 7678.1 | 7588.0 | 6943.4 | 5664.4 | 4692.6 | 3900.4 | 3201.8 | 2397.6 |
| 63° | 6154.6 | 6582.2 | 7202.0 | 7581.4 | 7535.1 | 6865.7 | 5588.3 | 4633.1 | 3888.1 | 3153.8 | 2261.4 |
| 64° | 5824.3 | 6289.5 | 7024.4 | 7474.3 | 7465.8 | 6766.4 | 5499.6 | 4567.4 | 3845.8 | 3095.8 | 2199.0 |
| 65° | 5538.1 | 6003.7 | 6831.1 | 7354.2 | 7385.5 | 6657.3 | 5410.8 | 4512.9 | 3760.5 | 3066.1 | 2044.1 |
| 66° | 5310.5 | 5752.9 | 6619.5 | 7213.1 | 7288.2 | 6558.1 | 5295.3 | 4444.4 | 3762.8 | 2990.5 | 1973.5 |
| 67° | 5161.6 | 5539.3 | 6417.0 | 7055.1 | 7167.4 | 6442.4 | 5161.0 | 4351.9 | 3787.1 | 2960.5 | 1815.4 |
| 68° | 5085.0 | 5380.9 | 6223.3 | 6873.5 | 7023.7 | 6298.7 | 4970.5 | 4246.4 | 3805.6 | 2899.1 | 1683.9 |
| 69° | 5016.0 | 5267.4 | 6043.9 | 6677.6 | 6848.7 | 6114.3 | 4747.5 | 4118.2 | 3718.0 | 2847.9 | 1530.1 |
| 70° | 4829.4 | 5162.1 | 5870.9 | 6465.1 | 6646.9 | 5844.3 | 4403.6 | 3934.1 | 3621.2 | 2798.6 | 1417.1 |
| 71° | 4460.6 | 4982.8 | 5715.4 | 6249.0 | 6412.9 | 5492.6 | 3960.8 | 3680.4 | 3541.0 | 2733.9 | 1336.2 |
| 72° | 3974.3 | 4678.1 | 5567.8 | 6027.1 | 6153.7 | 5077.5 | 3523.3 | 3405.1 | 3435.5 | 2661.0 | 1255.3 |
| 73° | 3491.9 | 4259.5 | 5402.2 | 5810.8 | 5856.6 | 4612.2 | 3130.0 | 3122.1 | 3271.7 | 2582.2 | 1174.4 |
| 74° | 3035.9 | 3795.2 | 5203.5 | 5590.8 | 5513.6 | 4141.3 | 2764.2 | 2837.4 | 3101.5 | 2478.3 | 1098.4 |
| 75° | 2379.1 | 3284.4 | 4947.5 | 5322.7 | 5141.0 | 3642.2 | 2321.6 | 2545.0 | 2922.1 | 2339.8 | 990.7 |
| 76° | 1494.7 | 2654.9 | 4585.8 | 5013.8 | 4699.5 | 3093.0 | 1693.1 | 2203.8 | 2732.6 | 2169.3 | 877.7 |
| 77° | 706.4 | 1764.8 | 4113.5 | 4585.3 | 4195.9 | 2337.9 | 1064.6 | 1651.6 | 2539.8 | 1924.8 | 769.6 |
| 78° | 554.8 | 886.6 | 3533.8 | 4026.5 | 3593.6 | 1471.7 | 445.4 | 1099.4 | 2322.5 | 1603.5 | 657.8 |
| 79° | 410.6 | 680.1 | 2763.6 | 3338.5 | 2886.8 | 734.5 | 203.0 | 552.7 | 1974.4 | 1282.1 | 558.0 |
| 80° | 266.3 | 473.7 | 1772.1 | 2496.9 | 2048.1 | 546.6 | 174.1 | 405.1 | 1410.3 | 961.1 | 482.1 |
| 81° | 242.4 | 267.3 | 919.6 | 1592.3 | 1188.6 | 366.3 | 145.1 | 257.5 | 848.1 | 709.8 | 485.1 |
| 82° | 220.4 | 236.3 | 688.5 | 765.9 | 534.9 | 185.9 | 116.4 | 113.5 | 371.4 | 580.2 | 451.7 |
| 83° | 199.5 | 211.7 | 467.4 | 588.2 | 366.7 | 156.8 | 99.7 | 92.2 | 281.6 | 494.4 | 361.5 |
| 84° | 178.1 | 187.7 | 246.4 | 413.6 | 200.9 | 132.9 | 83.6 | 74.0 | 191.8 | 392.3 | 249.1 |
| 85° | 156.7 | 164.1 | 199.4 | 238.9 | 161.2 | 110.3 | 67.8 | 58.3 | 103.5 | 278.7 | 178.2 |
| 86° | 133.5 | 141.8 | 160.2 | 203.1 | 129.2 | 87.6 | 52.5 | 44.8 | 85.4 | 223.6 | 108.2 |
| 87° | 110.7 | 120.5 | 132.5 | 162.1 | 102.9 | 67.0 | 37.5 | 33.3 | 66.3 | 168.5 | 70.7 |
| 88° | 90.2 | 99.8 | 105.4 | 115.8 | 79.7 | 50.9 | 26.7 | 23.7 | 44.0 | 113.4 | 48.4 |
| 89° | 73.9 | 78.3 | 77.4 | 68.6 | 61.2 | 34.8 | 15.8 | 14.1 | 30.6 | 58.2 | 26.0 |



REPORT NUMBER: P1436802

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3-HSS)

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: P1436802

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3-HSS)

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: P1436802

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3-HSS)

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: P1436802

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

| | 165° | 180° | 195° | 210° | 225° | 240° | 255° | 270° | 285° | 300° | 315° |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4228.7 | 4228.7 | 4228.7 | 4228.7 | 4228.7 | 4228.7 | 4228.7 | 4228.7 | 4228.7 | 4228.7 | 4228.7 |
| 1° | 4168.4 | 4168.8 | 4174.1 | 4182.9 | 4195.8 | 4210.3 | 4225.7 | 4227.4 | 4243.0 | 4258.6 | 4272.3 |
| 2° | 4116.3 | 4114.5 | 4122.1 | 4137.3 | 4159.6 | 4186.1 | 4217.2 | 4234.7 | 4266.0 | 4296.8 | 4324.8 |
| 3° | 4070.9 | 4067.4 | 4077.0 | 4097.3 | 4126.7 | 4165.5 | 4210.4 | 4244.3 | 4292.3 | 4340.3 | 4384.1 |
| 4° | 4031.3 | 4026.8 | 4038.1 | 4061.8 | 4099.2 | 4148.9 | 4207.4 | 4257.1 | 4322.9 | 4389.2 | 4449.0 |
| 5° | 3994.7 | 3990.0 | 4002.6 | 4030.9 | 4074.3 | 4134.9 | 4206.1 | 4272.1 | 4355.3 | 4440.7 | 4520.4 |
| 6° | 3964.2 | 3959.3 | 3973.0 | 4002.6 | 4053.6 | 4122.8 | 4208.1 | 4290.1 | 4391.0 | 4496.7 | 4597.9 |
| 7° | 3939.5 | 3933.5 | 3948.9 | 3981.1 | 4034.0 | 4113.5 | 4211.3 | 4309.1 | 4429.8 | 4557.9 | 4681.0 |
| 8° | 3917.9 | 3910.4 | 3927.1 | 3965.0 | 4019.9 | 4105.4 | 4215.8 | 4329.2 | 4471.0 | 4623.1 | 4769.3 |
| 9° | 3897.8 | 3889.4 | 3907.4 | 3949.4 | 4010.4 | 4097.8 | 4220.3 | 4351.5 | 4514.5 | 4693.1 | 4865.6 |
| 10° | 3881.7 | 3872.7 | 3890.8 | 3936.3 | 4002.8 | 4091.9 | 4228.4 | 4377.8 | 4561.1 | 4767.0 | 4967.0 |
| 11° | 3870.3 | 3861.0 | 3879.2 | 3926.4 | 3997.1 | 4091.3 | 4238.4 | 4407.1 | 4613.4 | 4846.3 | 5076.9 |
| 12° | 3846.0 | 3818.1 | 3855.0 | 3920.3 | 3993.9 | 4094.3 | 4240.4 | 4426.7 | 4668.8 | 4929.5 | 5193.7 |
| 13° | 3801.9 | 3774.8 | 3810.8 | 3916.9 | 3992.2 | 4087.5 | 4247.2 | 4450.6 | 4713.9 | 5022.5 | 5319.2 |
| 14° | 3781.8 | 3770.9 | 3790.6 | 3872.7 | 3993.2 | 4085.8 | 4253.7 | 4474.8 | 4764.8 | 5114.2 | 5452.5 |
| 15° | 3784.1 | 3771.0 | 3790.8 | 3844.0 | 3985.8 | 4086.4 | 4267.9 | 4505.7 | 4817.0 | 5201.9 | 5591.1 |
| 16° | 3786.8 | 3773.9 | 3793.7 | 3846.9 | 3980.9 | 4093.5 | 4281.3 | 4542.7 | 4875.8 | 5295.6 | 5736.5 |
| 17° | 3793.1 | 3778.6 | 3800.6 | 3853.4 | 3951.0 | 4098.0 | 4298.3 | 4579.0 | 4946.4 | 5391.8 | 5885.2 |
| 18° | 3797.4 | 3779.0 | 3805.3 | 3862.1 | 3936.0 | 4106.7 | 4322.4 | 4618.9 | 5008.7 | 5497.8 | 6031.0 |
| 19° | 3800.3 | 3779.7 | 3809.2 | 3874.9 | 3930.7 | 4124.6 | 4351.5 | 4667.7 | 5078.2 | 5604.1 | 6168.1 |
| 20° | 3803.3 | 3764.0 | 3813.7 | 3884.2 | 3935.4 | 4146.0 | 4380.0 | 4717.1 | 5150.9 | 5717.1 | 6311.5 |
| 21° | 3725.8 | 3609.3 | 3741.8 | 3884.8 | 3948.8 | 4162.4 | 4403.2 | 4761.3 | 5233.8 | 5823.4 | 6449.3 |
| 22° | 3614.5 | 3569.6 | 3636.7 | 3887.2 | 3965.5 | 4169.8 | 4415.9 | 4801.1 | 5316.9 | 5933.8 | 6577.7 |
| 23° | 3597.0 | 3574.0 | 3618.6 | 3865.0 | 3978.1 | 4160.5 | 4442.1 | 4829.3 | 5397.8 | 6045.8 | 6708.9 |
| 24° | 3603.7 | 3584.0 | 3626.9 | 3735.7 | 3988.5 | 4170.9 | 4475.5 | 4868.8 | 5472.5 | 6155.7 | 6836.9 |
| 25° | 3616.3 | 3597.7 | 3640.4 | 3701.1 | 3998.3 | 4178.4 | 4495.6 | 4919.2 | 5537.2 | 6267.8 | 6959.1 |
| 26° | 3630.8 | 3610.0 | 3656.7 | 3713.5 | 4013.8 | 4184.1 | 4520.3 | 4959.6 | 5604.1 | 6376.7 | 7081.2 |
| 27° | 3643.0 | 3624.1 | 3670.8 | 3724.2 | 4014.6 | 4210.0 | 4556.4 | 4999.1 | 5681.1 | 6484.3 | 7197.4 |
| 28° | 3655.7 | 3598.9 | 3687.5 | 3732.7 | 3943.9 | 4231.4 | 4590.2 | 5050.9 | 5768.0 | 6584.9 | 7314.3 |
| 29° | 3591.9 | 3456.0 | 3619.8 | 3738.2 | 3875.7 | 4238.5 | 4612.6 | 5109.3 | 5853.0 | 6683.5 | 7433.2 |
| 30° | 3471.7 | 3445.0 | 3501.0 | 3750.1 | 3840.0 | 4245.9 | 4632.5 | 5167.3 | 5927.7 | 6772.9 | 7554.0 |
| 31° | 3467.3 | 3464.1 | 3496.0 | 3762.0 | 3835.0 | 4266.4 | 4662.0 | 5217.5 | 6010.2 | 6862.4 | 7676.1 |
| 32° | 3481.2 | 3488.0 | 3510.4 | 3664.5 | 3845.6 | 4286.5 | 4697.4 | 5261.9 | 6104.3 | 6959.1 | 7795.6 |
| 33° | 3498.5 | 3510.6 | 3528.1 | 3564.9 | 3863.7 | 4290.2 | 4730.9 | 5314.9 | 6202.2 | 7060.3 | 7909.9 |
| 34° | 3515.2 | 3529.1 | 3543.4 | 3561.0 | 3881.7 | 4304.7 | 4749.5 | 5380.7 | 6291.6 | 7160.9 | 8011.1 |
| 35° | 3528.4 | 3544.6 | 3555.8 | 3565.6 | 3890.1 | 4315.3 | 4781.4 | 5445.3 | 6368.0 | 7258.8 | 8079.1 |
| 36° | 3533.3 | 3354.3 | 3557.2 | 3580.9 | 3891.5 | 4322.8 | 4812.8 | 5505.1 | 6434.3 | 7326.7 | 8108.5 |
| 37° | 3340.6 | 3327.0 | 3360.0 | 3600.7 | 3885.7 | 4313.9 | 4838.3 | 5549.0 | 6491.5 | 7367.2 | 8109.1 |
| 38° | 3300.7 | 3346.4 | 3329.1 | 3607.3 | 3789.7 | 4246.8 | 4860.3 | 5601.1 | 6537.8 | 7383.6 | 8088.2 |
| 39° | 3313.0 | 3369.7 | 3341.1 | 3618.0 | 3739.8 | 4200.6 | 4873.7 | 5654.6 | 6575.7 | 7387.5 | 8062.1 |
| 40° | 3329.5 | 3390.1 | 3353.5 | 3494.0 | 3768.8 | 4187.5 | 4891.1 | 5695.5 | 6604.4 | 7394.7 | 8047.7 |
| 41° | 3330.9 | 3371.7 | 3354.5 | 3449.4 | 3788.6 | 4214.6 | 4895.5 | 5732.0 | 6626.7 | 7411.0 | 8041.8 |
| 42° | 3297.6 | 3161.9 | 3323.3 | 3461.2 | 3785.4 | 4230.9 | 4903.4 | 5763.6 | 6652.8 | 7431.2 | 8051.0 |
| 43° | 3110.4 | 3146.3 | 3141.0 | 3454.6 | 3801.6 | 4213.0 | 4933.6 | 5790.0 | 6681.5 | 7455.4 | 8068.6 |
| 44° | 3094.9 | 3157.6 | 3129.2 | 3451.3 | 3824.0 | 4220.2 | 4965.2 | 5813.5 | 6717.4 | 7482.2 | 8084.9 |



REPORT NUMBER: P1436802

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

| | 165° | 180° | 195° | 210° | 225° | 240° | 255° | 270° | 285° | 300° | 315° |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 45° | 3110.7 | 3163.4 | 3143.8 | 3450.9 | 3839.2 | 4248.3 | 4998.8 | 5840.0 | 6758.6 | 7508.3 | 8099.3 |
| 46° | 3113.2 | 3073.5 | 3143.4 | 3276.9 | 3728.8 | 4273.5 | 4973.5 | 5859.0 | 6797.8 | 7540.3 | 8113.7 |
| 47° | 3033.2 | 2880.1 | 3055.8 | 3250.9 | 3659.0 | 4286.8 | 4948.6 | 5882.9 | 6837.6 | 7575.6 | 8125.4 |
| 48° | 2867.4 | 2880.8 | 2904.8 | 3259.8 | 3671.0 | 4276.4 | 4970.3 | 5919.4 | 6876.8 | 7609.5 | 8130.7 |
| 49° | 2879.8 | 2884.6 | 2919.8 | 3258.8 | 3694.8 | 4200.8 | 5006.4 | 5950.9 | 6914.7 | 7638.9 | 8127.4 |
| 50° | 2895.8 | 2883.1 | 2937.2 | 3231.8 | 3688.6 | 4181.0 | 5025.1 | 5976.9 | 6948.0 | 7671.6 | 8120.9 |
| 51° | 2904.9 | 2618.2 | 2949.8 | 3061.0 | 3677.5 | 4188.4 | 5034.0 | 5991.1 | 6975.4 | 7699.6 | 8113.7 |
| 52° | 2679.3 | 2591.8 | 2715.1 | 3065.7 | 3543.0 | 4196.1 | 5053.7 | 5971.3 | 6997.6 | 7722.5 | 8104.5 |
| 53° | 2649.2 | 2588.2 | 2688.7 | 3088.3 | 3522.7 | 4222.6 | 5057.1 | 5932.4 | 7017.8 | 7736.2 | 8093.4 |
| 54° | 2642.8 | 2391.6 | 2681.7 | 3104.4 | 3533.7 | 4218.8 | 5044.9 | 5910.3 | 7027.6 | 7740.8 | 8079.1 |
| 55° | 2458.4 | 2271.7 | 2487.3 | 2918.0 | 3531.3 | 4210.7 | 5034.6 | 5907.8 | 7031.6 | 7740.1 | 8062.7 |
| 56° | 2362.7 | 2266.0 | 2402.0 | 2887.6 | 3453.2 | 4175.1 | 5013.5 | 5908.6 | 7033.5 | 7741.4 | 8040.5 |
| 57° | 2360.1 | 2015.6 | 2398.5 | 2890.3 | 3375.5 | 4116.1 | 4990.9 | 5894.4 | 7037.4 | 7736.2 | 8008.5 |
| 58° | 2133.9 | 1957.5 | 2163.9 | 2739.3 | 3410.0 | 4106.7 | 4930.9 | 5858.5 | 7035.5 | 7721.8 | 7963.5 |
| 59° | 2076.2 | 1912.3 | 2112.5 | 2682.7 | 3446.7 | 4093.2 | 4911.2 | 5829.5 | 7028.3 | 7702.2 | 7908.0 |
| 60° | 1979.9 | 1621.7 | 1994.0 | 2670.2 | 3401.6 | 4073.6 | 4854.6 | 5795.2 | 7004.1 | 7674.8 | 7845.3 |
| 61° | 1788.2 | 1477.0 | 1822.3 | 2478.3 | 3308.2 | 4026.9 | 4803.1 | 5749.5 | 6956.4 | 7638.9 | 7776.0 |
| 62° | 1703.5 | 1332.3 | 1708.9 | 2466.8 | 3292.5 | 3983.8 | 4739.8 | 5687.1 | 6878.7 | 7586.0 | 7699.6 |
| 63° | 1534.2 | 1186.8 | 1546.4 | 2308.1 | 3231.8 | 3966.5 | 4670.8 | 5599.7 | 6786.0 | 7518.7 | 7608.2 |
| 64° | 1365.0 | 962.4 | 1383.9 | 2259.1 | 3180.7 | 3912.8 | 4601.8 | 5511.2 | 6675.6 | 7441.7 | 7496.5 |
| 65° | 1194.3 | 742.2 | 1221.3 | 2094.4 | 3144.1 | 3834.1 | 4534.9 | 5406.9 | 6571.8 | 7346.3 | 7363.3 |
| 66° | 973.6 | 554.6 | 986.8 | 2014.4 | 3067.3 | 3844.7 | 4447.6 | 5265.1 | 6458.9 | 7235.3 | 7215.1 |
| 67° | 790.9 | 368.8 | 777.3 | 1869.3 | 3037.3 | 3857.7 | 4333.4 | 5105.6 | 6321.3 | 7106.0 | 7051.8 |
| 68° | 578.5 | 183.1 | 574.2 | 1720.0 | 2961.8 | 3844.7 | 4207.7 | 4890.2 | 6141.4 | 6952.5 | 6876.1 |
| 69° | 419.0 | 0.4 | 402.8 | 1539.2 | 2897.6 | 3717.3 | 4057.9 | 4602.9 | 5907.0 | 6771.0 | 6684.1 |
| 70° | 377.0 | 0.4 | 352.7 | 1429.2 | 2837.3 | 3597.9 | 3839.0 | 4186.0 | 5602.6 | 6560.7 | 6469.8 |
| 71° | 335.7 | 0.3 | 307.7 | 1340.7 | 2758.4 | 3488.9 | 3549.2 | 3717.0 | 5209.9 | 6319.6 | 6239.4 |
| 72° | 290.0 | 0.4 | 261.9 | 1252.3 | 2676.0 | 3357.9 | 3250.0 | 3289.7 | 4753.9 | 6054.0 | 6016.1 |
| 73° | 241.0 | 0.4 | 212.9 | 1163.6 | 2570.4 | 3175.4 | 2971.1 | 2931.0 | 4278.5 | 5729.1 | 5785.2 |
| 74° | 197.0 | 0.4 | 165.4 | 1063.5 | 2423.5 | 3000.4 | 2689.5 | 2530.2 | 3786.6 | 5336.0 | 5537.9 |
| 75° | 155.9 | 0.5 | 135.8 | 942.2 | 2257.1 | 2823.3 | 2324.3 | 1954.1 | 3262.5 | 4891.3 | 5252.7 |
| 76° | 115.1 | 0.5 | 125.6 | 833.8 | 2037.4 | 2615.5 | 1773.4 | 1227.2 | 2620.7 | 4400.6 | 4911.8 |
| 77° | 88.8 | 0.6 | 137.6 | 731.6 | 1740.4 | 2388.9 | 1222.5 | 585.9 | 1810.9 | 3861.0 | 4470.1 |
| 78° | 95.5 | 0.7 | 126.7 | 629.1 | 1441.6 | 2078.4 | 673.1 | 374.4 | 988.5 | 3213.2 | 3830.0 |
| 79° | 129.5 | 0.8 | 115.9 | 549.8 | 1142.9 | 1537.2 | 275.8 | 172.7 | 726.3 | 2477.8 | 3067.8 |
| 80° | 133.6 | 0.9 | 104.8 | 506.1 | 847.2 | 996.1 | 197.7 | 146.5 | 464.3 | 1624.5 | 2192.3 |
| 81° | 121.1 | 1.1 | 65.5 | 468.1 | 672.6 | 466.6 | 120.5 | 127.9 | 202.2 | 827.1 | 1301.8 |
| 82° | 88.0 | 1.2 | 36.3 | 400.4 | 561.8 | 347.2 | 99.0 | 110.9 | 171.0 | 613.5 | 566.2 |
| 83° | 55.2 | 1.4 | 27.7 | 293.3 | 436.1 | 227.7 | 81.9 | 94.5 | 147.3 | 401.1 | 407.8 |
| 84° | 32.9 | 1.5 | 19.1 | 186.2 | 290.2 | 109.4 | 67.1 | 78.6 | 125.4 | 188.8 | 266.8 |
| 85° | 25.1 | 1.7 | 10.6 | 80.0 | 192.2 | 89.8 | 53.4 | 61.9 | 103.0 | 149.0 | 232.2 |
| 86° | 17.3 | 1.9 | 8.9 | 47.2 | 94.6 | 71.4 | 41.3 | 47.4 | 81.5 | 119.7 | 195.2 |
| 87° | 9.7 | 2.1 | 7.7 | 28.6 | 50.2 | 52.7 | 30.5 | 33.1 | 61.8 | 94.9 | 153.5 |
| 88° | 7.6 | 2.3 | 6.5 | 20.2 | 34.7 | 36.4 | 21.5 | 18.7 | 45.5 | 72.0 | 105.4 |
| 89° | 5.3 | 2.5 | 4.9 | 11.9 | 19.2 | 20.2 | 12.6 | 8.2 | 29.3 | 55.9 | 61.2 |



REPORT NUMBER: P1436802

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3-HSS)

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: P1436802

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3-HSS)

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: P1436802

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3-HSS)

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: P1436802

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

| | 330° | 345° | 360° |
|-----|--------|--------|--------|
| 0° | 4228.7 | 4228.7 | 4228.7 |
| 1° | 4282.8 | 4290.6 | 4293.1 |
| 2° | 4347.6 | 4363.6 | 4368.1 |
| 3° | 4419.1 | 4442.0 | 4450.1 |
| 4° | 4498.1 | 4532.0 | 4542.8 |
| 5° | 4586.9 | 4629.7 | 4644.5 |
| 6° | 4680.1 | 4735.4 | 4754.6 |
| 7° | 4782.4 | 4851.8 | 4875.8 |
| 8° | 4892.8 | 4976.0 | 5003.7 |
| 9° | 5010.6 | 5109.6 | 5145.2 |
| 10° | 5138.9 | 5255.7 | 5297.8 |
| 11° | 5277.0 | 5412.2 | 5460.0 |
| 12° | 5423.1 | 5578.1 | 5634.5 |
| 13° | 5579.9 | 5759.8 | 5826.5 |
| 14° | 5744.2 | 5947.9 | 6027.0 |
| 15° | 5918.2 | 6145.7 | 6234.4 |
| 16° | 6095.2 | 6350.3 | 6446.7 |
| 17° | 6279.6 | 6558.7 | 6657.3 |
| 18° | 6463.9 | 6763.8 | 6865.7 |
| 19° | 6645.6 | 6959.7 | 7070.1 |
| 20° | 6821.3 | 7149.8 | 7268.0 |
| 21° | 6991.1 | 7332.0 | 7453.4 |
| 22° | 7151.1 | 7501.8 | 7629.1 |
| 23° | 7307.1 | 7670.9 | 7795.6 |
| 24° | 7455.4 | 7835.5 | 7954.3 |
| 25° | 7604.9 | 7992.9 | 8102.6 |
| 26° | 7754.5 | 8135.9 | 8233.2 |
| 27° | 7895.6 | 8263.9 | 8347.5 |
| 28° | 8017.7 | 8374.9 | 8457.8 |
| 29° | 8130.7 | 8485.9 | 8568.9 |
| 30° | 8250.8 | 8612.6 | 8703.4 |
| 31° | 8371.0 | 8729.5 | 8813.8 |
| 32° | 8481.4 | 8815.7 | 8897.4 |
| 33° | 8559.1 | 8860.1 | 8930.7 |
| 34° | 8596.3 | 8856.2 | 8912.4 |
| 35° | 8590.4 | 8805.3 | 8851.6 |
| 36° | 8557.8 | 8727.6 | 8770.0 |
| 37° | 8501.6 | 8647.9 | 8698.2 |
| 38° | 8448.0 | 8596.9 | 8666.8 |
| 39° | 8416.0 | 8572.8 | 8657.0 |
| 40° | 8401.7 | 8561.7 | 8654.4 |
| 41° | 8395.2 | 8556.5 | 8651.8 |
| 42° | 8388.6 | 8553.2 | 8643.3 |
| 43° | 8382.1 | 8546.7 | 8624.4 |
| 44° | 8376.9 | 8535.6 | 8596.3 |

REPORT NUMBER: P1436802

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

| | 330° | 345° | 360° |
|-----|--------|--------|--------|
| 45° | 8371.6 | 8514.7 | 8556.5 |
| 46° | 8365.1 | 8487.9 | 8510.7 |
| 47° | 8355.3 | 8457.8 | 8457.8 |
| 48° | 8340.3 | 8423.9 | 8403.0 |
| 49° | 8318.1 | 8388.6 | 8344.2 |
| 50° | 8290.0 | 8352.7 | 8280.2 |
| 51° | 8253.4 | 8313.5 | 8209.7 |
| 52° | 8213.6 | 8263.9 | 8128.7 |
| 53° | 8172.5 | 8202.5 | 8041.2 |
| 54° | 8130.7 | 8126.7 | 7943.2 |
| 55° | 8084.3 | 8037.9 | 7832.2 |
| 56° | 8028.1 | 7932.8 | 7704.2 |
| 57° | 7958.3 | 7815.2 | 7564.5 |
| 58° | 7868.8 | 7672.9 | 7408.4 |
| 59° | 7770.8 | 7516.1 | 7238.6 |
| 60° | 7658.5 | 7344.4 | 7040.0 |
| 61° | 7531.8 | 7147.1 | 6788.6 |
| 62° | 7388.8 | 6908.1 | 6489.2 |
| 63° | 7237.3 | 6629.3 | 6154.6 |
| 64° | 7069.4 | 6327.4 | 5824.3 |
| 65° | 6880.7 | 6043.6 | 5538.1 |
| 66° | 6680.2 | 5793.8 | 5310.5 |
| 67° | 6478.7 | 5586.9 | 5161.6 |
| 68° | 6274.5 | 5423.1 | 5085.0 |
| 69° | 6096.6 | 5302.4 | 5016.0 |
| 70° | 5945.7 | 5194.9 | 4829.4 |
| 71° | 5789.3 | 5028.1 | 4460.6 |
| 72° | 5617.8 | 4728.6 | 3974.3 |
| 73° | 5448.7 | 4307.6 | 3491.9 |
| 74° | 5251.4 | 3834.3 | 3035.9 |
| 75° | 4951.6 | 3317.4 | 2379.1 |
| 76° | 4554.0 | 2682.3 | 1494.7 |
| 77° | 4093.6 | 1852.9 | 706.4 |
| 78° | 3525.1 | 991.8 | 554.8 |
| 79° | 2729.3 | 747.2 | 410.6 |
| 80° | 1690.1 | 511.3 | 266.3 |
| 81° | 853.4 | 275.4 | 242.4 |
| 82° | 639.4 | 239.8 | 220.4 |
| 83° | 444.3 | 216.4 | 199.5 |
| 84° | 249.1 | 191.5 | 178.1 |
| 85° | 196.2 | 166.0 | 156.7 |
| 86° | 159.6 | 142.4 | 133.5 |
| 87° | 131.3 | 120.6 | 110.7 |
| 88° | 104.3 | 99.2 | 90.2 |
| 89° | 74.9 | 77.5 | 73.9 |



REPORT NUMBER: P1436802

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3-HSS)

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: P1436802

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3-HSS)

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: P1436802

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)