

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: P1445071

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

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445071
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA ()
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/5/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: XAS300-SFPM (4000K-180W-T4-HSS)
Description: XAS300 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 60% (180W)
OPTICS - TYPE 4 WITH HOUSE SIDE SHIELD
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 38695 (1 lamp)
Luminaire Lumens: 25479.8 lumens
Efficiency: 65.8%
Efficacy: 143.7 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): 177.3
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

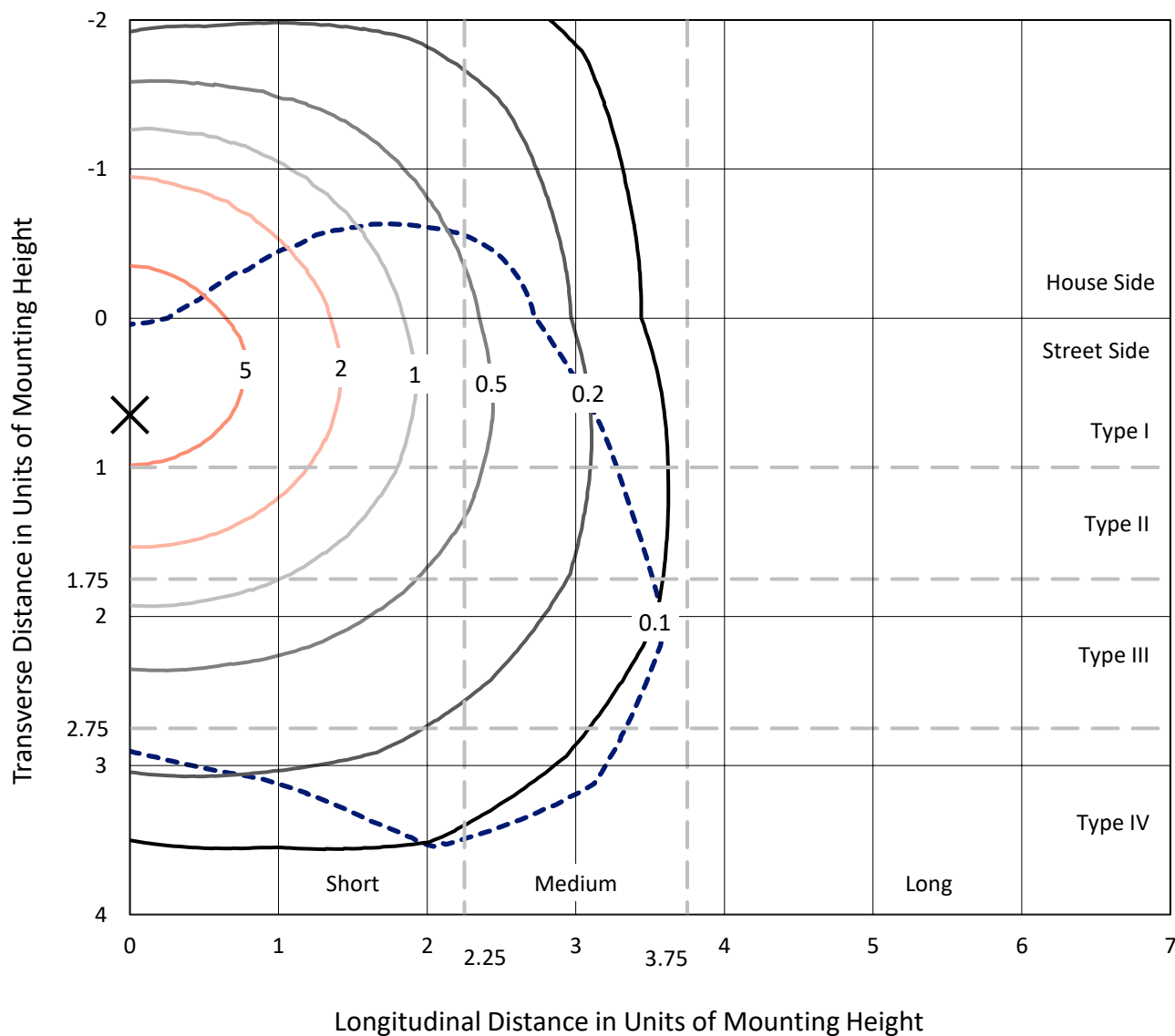
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

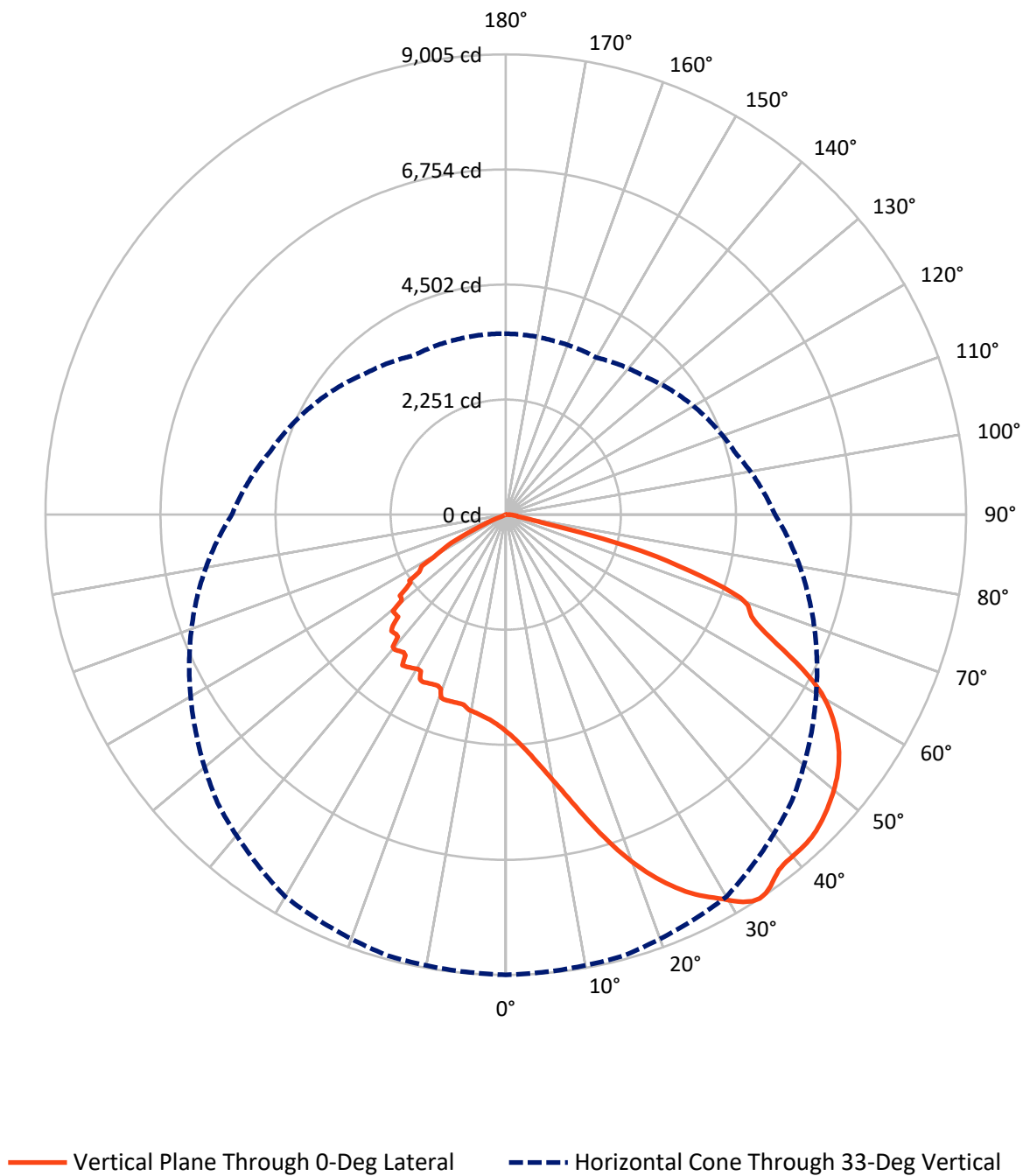


Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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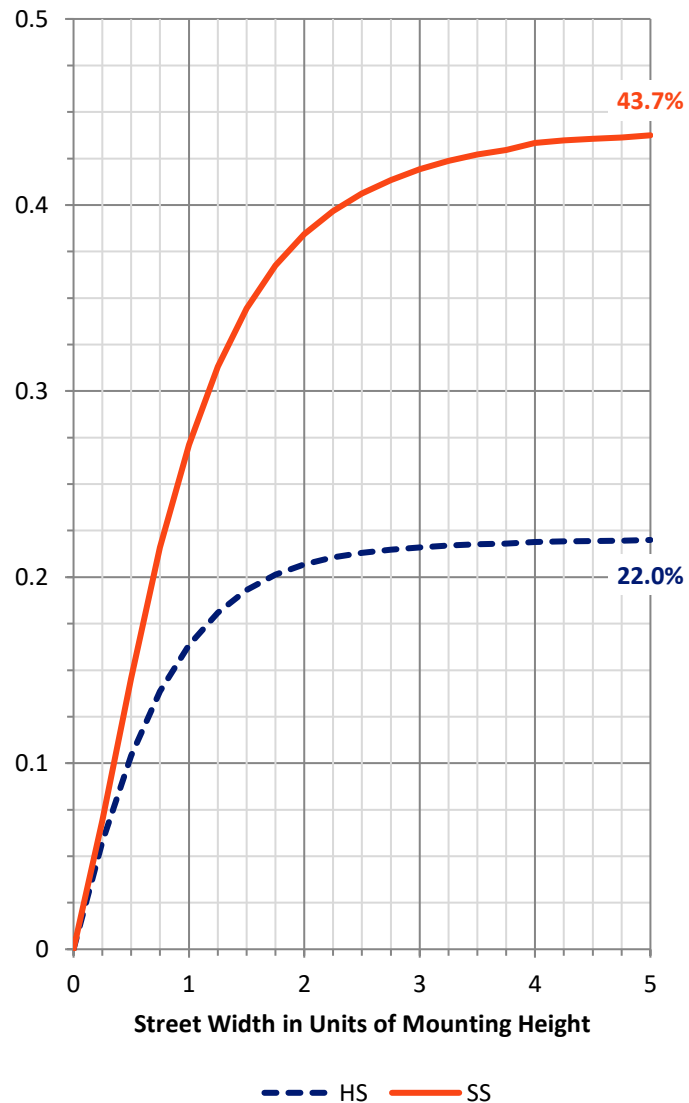
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8556.1	0.0	8556.1
	% Lamp	22.1	0.0	22.1
Street Side	Lumens	16923.7	0.0	16923.7
	% Lamp	43.7	0.0	43.7
Total	Lumens	25479.8	0.0	25479.8
	% Lamp	65.8	0.0	65.8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	419.1	1.6	1.1
10°-20°	1373.4	5.4	3.5
20°-30°	2530.7	9.9	6.5
30°-40°	3690.6	14.5	9.5
40°-50°	4555.2	17.9	11.8
50°-60°	5087.6	20.0	13.1
60°-70°	4765.3	18.7	12.3
70°-80°	2825.9	11.1	7.3
80°-90°	232.0	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°	25479.8	100.0	65.8
0°-180°	25479.8	100.0	65.8

Coefficient of Utilization



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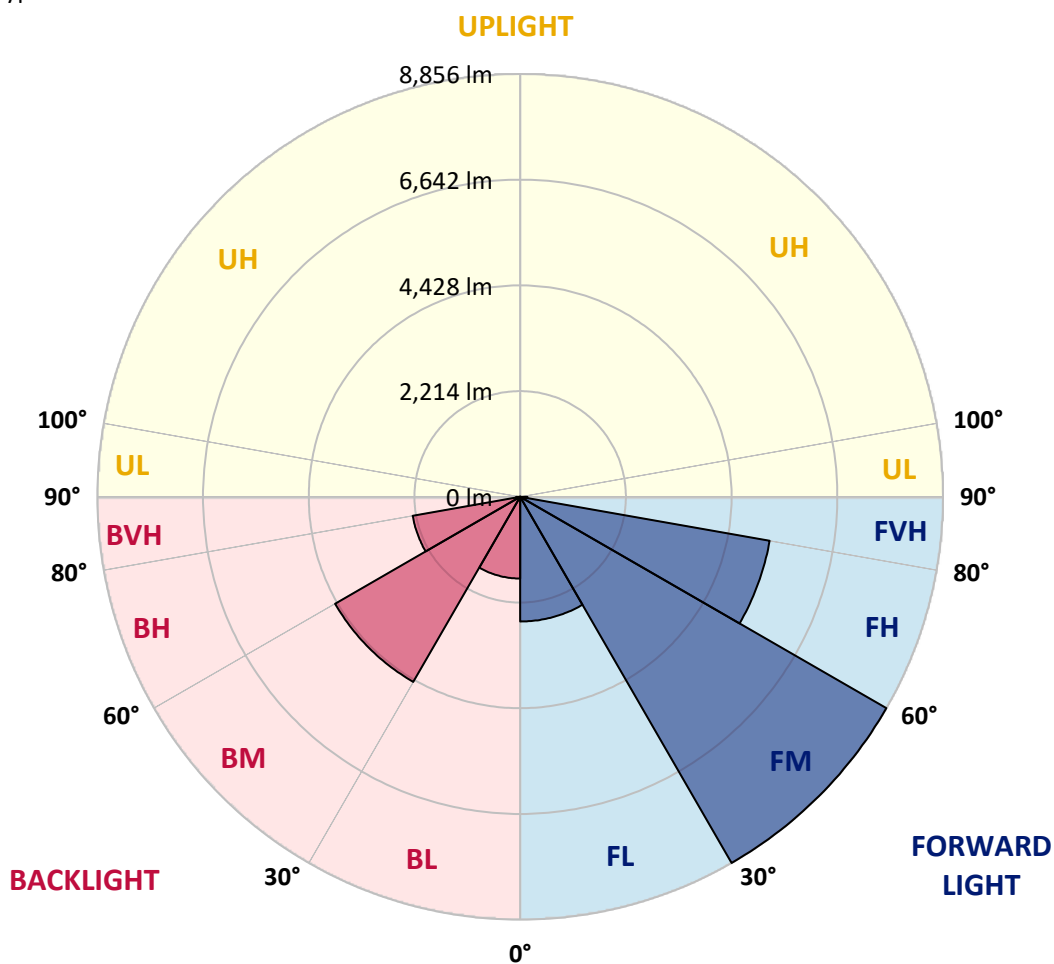
CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4-HSS)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2611.4	6.7			
FM	(30°-60°)	8856.5	22.9			
FH	(60°-80°)	5305.3	13.7			G3/7500
FVH	(80°-90°)	150.5	0.4			G2/225
BL	(0°-30°)	1711.9	4.4	B3/2500		
BM	(30°-60°)	4476.9	11.6	B3/5000		
BH	(60°-80°)	2285.8	5.9	B3/2500		G3/2500
BVH	(80°-90°)	81.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		13215.2	34.2			

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	4263.8	4263.8	4263.8	4263.8	4263.8	4263.8	4263.8	4263.8	4263.8	4263.8	4263.8
1°	4328.7	4329.1	4323.8	4315.5	4304.0	4288.2	4257.5	4241.4	4226.5	4215.5	4206.9
2°	4404.3	4401.4	4386.9	4365.2	4339.0	4306.9	4259.3	4227.4	4198.6	4175.4	4158.3
3°	4487.0	4480.8	4457.4	4422.8	4378.6	4329.2	4264.6	4217.1	4175.2	4140.5	4117.1
4°	4580.5	4569.6	4536.6	4487.3	4424.7	4357.3	4274.5	4211.0	4154.6	4110.4	4080.5
5°	4683.0	4667.8	4622.2	4556.6	4476.6	4389.5	4289.0	4209.1	4139.6	4085.7	4049.1
6°	4794.1	4774.1	4718.0	4634.7	4533.3	4423.8	4304.6	4209.9	4127.5	4064.0	4019.6
7°	4916.3	4892.8	4821.9	4719.6	4593.6	4460.2	4321.5	4211.5	4118.2	4045.2	3997.1
8°	5045.2	5016.5	4934.2	4810.3	4658.6	4500.5	4341.3	4215.4	4110.4	4030.8	3980.0
9°	5187.9	5152.1	5055.5	4907.4	4728.8	4544.4	4363.8	4220.5	4103.3	4021.8	3965.3
10°	5341.7	5299.9	5184.4	5011.3	4803.4	4590.7	4386.6	4226.6	4097.2	4014.6	3953.3
11°	5505.2	5456.8	5325.0	5124.1	4882.4	4640.6	4412.9	4235.2	4095.2	4009.0	3943.2
12°	5681.3	5625.2	5472.6	5242.3	4965.3	4693.2	4430.7	4236.4	4097.4	4004.6	3937.7
13°	5874.9	5807.2	5630.2	5368.8	5054.3	4737.3	4450.8	4238.6	4089.5	4001.8	3932.0
14°	6077.0	5998.3	5793.9	5500.0	5148.7	4785.3	4474.9	4241.8	4084.8	4002.3	3889.6
15°	6286.1	6199.4	5966.9	5634.3	5235.8	4836.4	4502.2	4251.4	4080.6	3993.6	3863.2
16°	6500.1	6399.2	6144.2	5775.9	5329.6	4893.1	4539.6	4268.6	4082.1	3979.7	3863.9
17°	6712.6	6605.2	6323.0	5920.7	5425.9	4956.0	4572.9	4281.1	4087.8	3947.2	3869.1
18°	6922.6	6806.1	6502.9	6068.2	5520.7	5024.0	4610.6	4299.3	4092.7	3927.9	3876.4
19°	7128.7	7003.0	6681.6	6212.4	5623.8	5088.8	4655.7	4326.6	4103.7	3927.5	3887.0
20°	7328.3	7196.6	6854.8	6342.5	5726.6	5157.7	4704.3	4356.5	4121.8	3930.7	3896.0
21°	7515.3	7381.6	7022.7	6483.4	5836.1	5234.0	4752.4	4380.6	4139.1	3936.8	3897.0
22°	7692.4	7556.8	7184.0	6610.5	5937.4	5315.1	4792.7	4389.6	4143.9	3952.5	3896.3
23°	7860.3	7727.3	7342.7	6735.6	6044.1	5398.1	4817.5	4405.9	4127.8	3967.6	3864.2
24°	8020.3	7888.0	7496.2	6860.1	6149.4	5472.8	4850.4	4435.5	4132.5	3974.9	3735.3
25°	8169.8	8045.3	7645.6	6985.2	6253.6	5540.5	4896.0	4452.8	4136.7	3982.8	3690.5
26°	8301.5	8183.0	7791.2	7104.4	6360.2	5598.4	4941.0	4471.1	4141.9	3995.7	3697.2
27°	8416.7	8308.1	7929.5	7220.9	6466.0	5664.8	4973.9	4501.6	4164.8	3997.4	3707.9
28°	8528.0	8420.7	8059.8	7335.5	6569.9	5743.0	5018.6	4532.7	4187.5	3921.5	3714.9
29°	8640.0	8534.6	8177.7	7442.8	6664.5	5827.0	5075.3	4558.0	4196.6	3849.3	3720.4
30°	8775.6	8664.3	8294.9	7553.5	6754.7	5899.8	5133.2	4573.0	4201.8	3815.0	3727.7
31°	8886.9	8783.5	8417.4	7674.0	6827.2	5971.1	5185.2	4593.9	4220.1	3807.7	3738.5
32°	8971.2	8877.7	8532.0	7799.7	6911.4	6045.5	5227.5	4625.0	4241.0	3812.0	3650.1
33°	9004.8	8932.3	8631.4	7918.3	7011.5	6128.2	5269.4	4653.9	4244.2	3827.0	3548.2
34°	8986.3	8926.4	8689.3	8026.9	7116.9	6216.3	5322.1	4671.5	4257.9	3844.0	3540.5
35°	8925.1	8875.7	8688.7	8107.9	7217.0	6306.0	5382.2	4697.7	4270.0	3855.9	3545.7
36°	8842.8	8801.9	8645.2	8159.3	7305.9	6389.1	5440.9	4729.9	4279.0	3858.9	3558.2
37°	8770.3	8719.0	8582.7	8168.5	7364.5	6452.9	5484.8	4753.7	4273.0	3854.9	3580.0
38°	8738.7	8666.3	8523.4	8150.7	7400.7	6511.8	5531.5	4775.6	4201.2	3757.2	3590.0
39°	8728.9	8641.3	8483.9	8126.3	7412.5	6563.1	5594.1	4796.3	4147.5	3703.9	3594.1
40°	8726.2	8628.1	8465.5	8111.2	7411.2	6600.0	5653.5	4817.8	4131.3	3727.9	3469.3
41°	8723.6	8620.9	8456.2	8105.9	7421.8	6628.3	5698.8	4833.0	4159.2	3752.9	3416.5
42°	8715.0	8613.6	8451.0	8104.6	7444.8	6656.6	5731.1	4841.6	4187.0	3752.8	3433.6
43°	8695.9	8605.1	8447.0	8111.2	7471.8	6681.6	5753.7	4869.5	4177.4	3761.5	3429.1
44°	8667.6	8591.9	8439.8	8123.7	7501.4	6708.0	5772.3	4896.8	4178.7	3784.9	3425.3

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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	8627.4	8570.8	8428.6	8136.2	7529.1	6742.9	5795.0	4931.5	4202.2	3801.6	3424.2
46°	8581.3	8543.8	8414.1	8144.1	7556.8	6785.0	5818.0	4920.0	4228.4	3693.5	3257.4
47°	8528.0	8514.2	8397.0	8150.0	7584.4	6829.1	5835.3	4889.4	4234.0	3617.2	3213.9
48°	8472.7	8479.3	8377.9	8157.3	7611.4	6870.6	5868.2	4904.1	4230.8	3623.6	3226.2
49°	8413.4	8443.7	8353.5	8159.9	7643.0	6909.5	5905.6	4934.1	4153.4	3646.6	3225.9
50°	8348.9	8406.9	8325.2	8153.3	7666.7	6944.4	5939.1	4955.3	4116.4	3645.2	3205.9
51°	8277.8	8362.1	8291.0	8140.8	7694.4	6974.0	5965.8	4961.6	4123.0	3639.5	3024.7
52°	8196.1	8310.1	8252.8	8129.6	7724.7	7001.6	5963.9	4981.0	4123.9	3509.4	3021.8
53°	8107.9	8247.5	8209.3	8117.1	7750.3	7021.4	5932.9	4990.5	4154.0	3471.7	3044.0
54°	8009.1	8171.1	8165.2	8101.3	7763.5	7039.8	5900.1	4979.1	4153.2	3479.0	3061.5
55°	7897.2	8082.2	8114.5	8081.6	7768.1	7051.0	5895.4	4972.1	4147.2	3475.1	2884.2
56°	7768.1	7976.2	8053.9	8053.9	7768.1	7055.6	5896.6	4956.3	4114.2	3410.9	2845.3
57°	7627.2	7855.7	7982.1	8022.3	7766.1	7062.9	5890.1	4942.5	4052.2	3306.0	2846.9
58°	7469.8	7716.1	7895.9	7986.7	7757.6	7073.4	5864.6	4890.1	4039.4	3338.9	2710.6
59°	7298.6	7558.7	7801.7	7944.6	7745.1	7078.0	5838.8	4865.7	4030.6	3376.8	2631.2
60°	7098.4	7380.9	7688.4	7891.9	7722.7	7072.1	5811.8	4827.2	4014.7	3350.4	2625.0
61°	6844.9	7173.5	7564.0	7824.8	7690.4	7049.1	5770.2	4782.6	3978.9	3245.3	2434.3
62°	6543.0	6922.0	7421.8	7741.8	7650.9	7001.0	5711.4	4731.5	3932.7	3228.3	2417.5
63°	6205.7	6636.8	7261.8	7644.3	7597.6	6922.6	5634.7	4671.5	3920.3	3179.9	2280.1
64°	5872.6	6341.7	7082.6	7536.3	7527.8	6822.5	5545.2	4605.3	3877.7	3121.5	2217.2
65°	5584.1	6053.5	6887.7	7415.2	7446.8	6712.6	5455.7	4550.4	3791.7	3091.6	2061.1
66°	5354.5	5800.6	6674.4	7272.9	7348.7	6612.5	5339.2	4481.3	3794.0	3015.3	1989.9
67°	5204.5	5585.3	6470.2	7113.6	7226.9	6495.8	5203.9	4388.0	3818.5	2985.1	1830.5
68°	5127.2	5425.6	6274.9	6930.5	7082.0	6351.0	5011.8	4281.7	3837.2	2923.1	1697.9
69°	5057.6	5311.1	6094.1	6733.0	6905.5	6165.0	4786.9	4152.3	3748.9	2871.5	1542.8
70°	4869.5	5204.9	5919.6	6518.8	6702.0	5892.8	4440.1	3966.8	3651.2	2821.8	1428.8
71°	4497.6	5024.2	5762.8	6300.8	6466.1	5538.2	3993.7	3710.9	3570.4	2756.6	1347.3
72°	4007.3	4716.9	5614.0	6077.1	6204.8	5119.6	3552.5	3433.3	3464.0	2683.1	1265.7
73°	3520.9	4294.8	5447.0	5859.0	5905.1	4650.5	3156.0	3148.0	3298.8	2603.6	1184.1
74°	3061.1	3826.6	5246.7	5637.1	5559.4	4175.6	2787.1	2861.0	3127.2	2498.9	1107.5
75°	2398.9	3311.6	4988.5	5366.9	5183.6	3672.4	2340.8	2566.1	2946.4	2359.2	998.9
76°	1507.1	2676.9	4623.9	5055.4	4738.4	3118.6	1707.1	2222.1	2755.3	2187.3	885.0
77°	712.3	1779.4	4147.6	4623.3	4230.7	2357.3	1073.4	1665.3	2560.8	1940.8	776.0
78°	559.4	894.0	3563.1	4059.9	3623.4	1483.9	449.1	1108.5	2341.8	1616.8	663.3
79°	414.0	685.7	2786.6	3366.2	2910.8	740.6	204.7	557.3	1990.8	1292.7	562.6
80°	268.5	477.6	1786.8	2517.6	2065.1	551.2	175.5	408.5	1422.0	969.1	486.1
81°	244.4	269.6	927.2	1605.5	1198.4	369.3	146.3	259.7	855.1	715.6	489.1
82°	222.3	238.2	694.2	772.3	539.3	187.4	117.3	114.5	374.5	585.0	455.5
83°	201.2	213.5	471.3	593.1	369.8	158.1	100.5	92.9	283.9	498.5	364.5
84°	179.6	189.3	248.4	417.0	202.5	134.0	84.3	74.6	193.4	395.6	251.2
85°	158.0	165.5	201.1	240.9	162.6	111.2	68.4	58.7	104.4	281.1	179.7
86°	134.6	143.0	161.5	204.8	130.3	88.3	52.9	45.2	86.1	225.5	109.1
87°	111.6	121.5	133.6	163.4	103.8	67.5	37.8	33.6	66.8	169.9	71.3
88°	91.0	100.7	106.3	116.8	80.3	51.3	26.9	23.9	44.4	114.3	48.8
89°	74.5	78.9	78.0	69.2	61.7	35.0	15.9	14.3	30.9	58.7	26.2



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CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4-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: P1445071

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4-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: P1445071
CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4-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: P1445071

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

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	4263.8	4263.8	4263.8	4263.8	4263.8	4263.8	4263.8	4263.8	4263.8	4263.8	4263.8
1°	4203.0	4203.4	4208.7	4217.6	4230.6	4245.2	4260.8	4262.4	4278.2	4294.0	4307.7
2°	4150.5	4148.6	4156.3	4171.6	4194.1	4220.9	4252.2	4269.8	4301.4	4332.5	4360.7
3°	4104.7	4101.2	4110.8	4131.3	4161.0	4200.1	4245.3	4279.5	4327.9	4376.3	4420.5
4°	4064.7	4060.2	4071.6	4095.5	4133.2	4183.3	4242.3	4292.5	4358.8	4425.6	4485.9
5°	4027.8	4023.1	4035.8	4064.4	4108.1	4169.3	4241.0	4307.5	4391.4	4477.6	4557.9
6°	3997.1	3992.2	4005.9	4035.8	4087.2	4157.0	4243.0	4325.7	4427.4	4534.1	4636.0
7°	3972.2	3966.1	3981.6	4014.2	4067.4	4147.7	4246.2	4344.9	4466.6	4595.8	4719.9
8°	3950.4	3942.9	3959.7	3997.9	4053.3	4139.4	4250.8	4365.1	4508.1	4661.5	4808.8
9°	3930.2	3921.7	3939.8	3982.2	4043.7	4131.8	4255.3	4387.6	4552.0	4732.1	4906.0
10°	3913.9	3904.9	3923.1	3968.9	4036.0	4125.9	4263.5	4414.1	4598.9	4806.6	5008.2
11°	3902.4	3893.0	3911.4	3959.0	4030.3	4125.2	4273.6	4443.7	4651.7	4886.5	5119.0
12°	3877.9	3849.8	3887.0	3952.8	4027.0	4128.2	4275.6	4463.4	4707.6	4970.4	5236.8
13°	3833.5	3806.2	3842.4	3949.4	4025.3	4121.4	4282.4	4487.6	4753.0	5064.2	5363.3
14°	3813.2	3802.2	3822.0	3904.9	4026.4	4119.7	4289.0	4511.9	4804.4	5156.6	5497.7
15°	3815.5	3802.3	3822.2	3875.9	4018.9	4120.3	4303.3	4543.1	4857.0	5245.0	5637.5
16°	3818.2	3805.2	3825.2	3878.8	4013.9	4127.5	4316.8	4580.3	4916.2	5339.5	5784.1
17°	3824.5	3809.9	3832.1	3885.4	3983.8	4132.0	4333.9	4617.0	4987.5	5436.5	5934.0
18°	3828.9	3810.4	3836.8	3894.1	3968.7	4140.7	4358.2	4657.2	5050.3	5543.4	6081.0
19°	3831.8	3811.1	3840.8	3907.0	3963.3	4158.8	4387.6	4706.4	5120.3	5650.6	6219.2
20°	3834.9	3795.2	3845.3	3916.4	3968.0	4180.4	4416.3	4756.2	5193.6	5764.6	6363.9
21°	3756.7	3639.2	3772.8	3917.1	3981.5	4197.0	4439.8	4800.8	5277.2	5871.8	6502.8
22°	3644.5	3599.2	3666.9	3919.5	3998.4	4204.3	4452.5	4840.9	5361.0	5983.0	6632.2
23°	3626.9	3603.7	3648.7	3897.0	4011.1	4195.0	4478.9	4869.3	5442.6	6096.0	6764.6
24°	3633.6	3613.7	3657.0	3766.7	4021.6	4205.5	4512.6	4909.2	5517.9	6206.8	6893.7
25°	3646.3	3627.5	3670.6	3731.8	4031.5	4213.0	4532.9	4960.0	5583.1	6319.8	7016.8
26°	3661.0	3640.0	3687.0	3744.3	4047.1	4218.8	4557.8	5000.8	5650.6	6429.6	7139.9
27°	3673.2	3654.2	3701.3	3755.1	4047.9	4244.9	4594.2	5040.6	5728.3	6538.1	7257.1
28°	3686.0	3628.8	3718.1	3763.7	3976.6	4266.5	4628.3	5092.8	5815.9	6639.5	7375.0
29°	3621.7	3484.6	3649.8	3769.2	3907.9	4273.7	4650.9	5151.6	5901.5	6738.9	7494.9
30°	3500.5	3473.6	3530.0	3781.2	3871.8	4281.1	4670.9	5210.2	5976.9	6829.1	7616.7
31°	3496.1	3492.8	3525.0	3793.2	3866.8	4301.8	4700.7	5260.8	6060.1	6919.3	7739.8
32°	3510.1	3516.9	3539.5	3694.9	3877.5	4322.0	4736.4	5305.5	6155.0	7016.8	7860.3
33°	3527.6	3539.7	3557.4	3594.5	3895.7	4325.8	4770.1	5359.0	6253.7	7118.9	7975.5
34°	3544.4	3558.4	3572.8	3590.6	3913.9	4340.5	4788.9	5425.3	6343.8	7220.3	8077.6
35°	3557.7	3574.0	3585.3	3595.2	3922.4	4351.1	4821.1	5490.5	6420.9	7319.0	8146.1
36°	3562.6	3382.2	3586.7	3610.6	3923.8	4358.6	4852.7	5550.8	6487.6	7387.5	8175.7
37°	3368.3	3354.6	3387.9	3630.5	3918.0	4349.7	4878.4	5595.1	6545.3	7428.3	8176.4
38°	3328.1	3374.1	3356.7	3637.3	3821.1	4282.0	4900.6	5647.6	6592.1	7444.8	8155.3
39°	3340.5	3397.6	3368.9	3648.0	3770.8	4235.5	4914.1	5701.5	6630.3	7448.8	8129.0
40°	3357.1	3418.2	3381.3	3522.9	3800.0	4222.2	4931.7	5742.8	6659.2	7456.0	8114.5
41°	3358.5	3399.7	3382.4	3478.0	3820.0	4249.6	4936.1	5779.6	6681.6	7472.5	8108.6
42°	3324.9	3188.1	3350.9	3490.0	3816.8	4266.0	4944.1	5811.4	6708.0	7492.9	8117.8
43°	3136.2	3172.4	3167.0	3483.3	3833.1	4247.9	4974.5	5838.0	6736.9	7517.2	8135.6
44°	3120.6	3183.8	3155.2	3480.0	3855.7	4255.2	5006.4	5861.7	6773.2	7544.2	8152.0

REPORT NUMBER: P1445071

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

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	3136.5	3189.6	3169.9	3479.5	3871.0	4283.5	5040.3	5888.5	6814.6	7570.6	8166.5
46°	3139.0	3099.0	3169.5	3304.1	3759.7	4308.9	5014.8	5907.6	6854.1	7602.8	8181.0
47°	3058.4	2904.0	3081.1	3277.9	3689.3	4322.3	4989.7	5931.7	6894.3	7638.4	8192.8
48°	2891.2	2904.7	2928.9	3286.9	3701.5	4311.9	5011.6	5968.5	6933.8	7672.6	8198.1
49°	2903.7	2908.5	2944.0	3285.8	3725.4	4235.6	5047.9	6000.2	6972.0	7702.3	8194.8
50°	2919.8	2907.0	2961.5	3258.6	3719.2	4215.7	5066.8	6026.4	7005.6	7735.2	8188.2
51°	2929.0	2639.9	2974.3	3086.4	3708.0	4223.1	5075.8	6040.8	7033.3	7763.5	8181.0
52°	2701.5	2613.3	2737.6	3091.2	3572.4	4230.9	5095.7	6020.8	7055.6	7786.6	8171.8
53°	2671.2	2609.7	2711.0	3113.9	3551.9	4257.6	5099.1	5981.7	7076.1	7800.4	8160.6
54°	2664.7	2411.4	2704.0	3130.2	3563.0	4253.8	5086.7	5959.3	7085.9	7805.0	8146.1
55°	2478.8	2290.5	2507.9	2942.2	3560.6	4245.6	5076.4	5956.8	7089.9	7804.3	8129.6
56°	2382.3	2284.8	2421.9	2911.5	3481.9	4209.7	5055.1	5957.6	7091.9	7805.7	8107.2
57°	2379.7	2032.3	2418.4	2914.2	3403.5	4150.2	5032.3	5943.3	7095.8	7800.4	8075.0
58°	2151.6	1973.7	2181.8	2762.1	3438.3	4140.8	4971.8	5907.1	7093.8	7785.9	8029.5
59°	2093.4	1928.2	2130.0	2704.9	3475.3	4127.2	4952.0	5877.9	7086.6	7766.1	7973.6
60°	1996.3	1635.1	2010.5	2692.3	3429.8	4107.4	4894.8	5843.3	7062.2	7738.5	7910.4
61°	1803.0	1489.2	1837.4	2498.9	3335.7	4060.3	4842.9	5797.2	7014.2	7702.3	7840.6
62°	1717.7	1343.4	1723.1	2487.2	3319.8	4016.8	4779.1	5734.3	6935.8	7648.9	7763.5
63°	1547.0	1196.7	1559.2	2327.2	3258.6	3999.4	4709.5	5646.2	6842.3	7581.1	7671.3
64°	1376.4	970.4	1395.4	2277.9	3207.1	3945.3	4639.9	5556.9	6731.0	7503.4	7558.7
65°	1204.2	748.4	1231.4	2111.8	3170.1	3865.9	4572.6	5451.8	6626.3	7407.3	7424.4
66°	981.7	559.2	995.0	2031.2	3092.7	3876.6	4484.5	5308.8	6512.5	7295.3	7274.9
67°	797.4	371.9	783.7	1884.8	3062.5	3889.7	4369.4	5148.0	6373.8	7165.0	7110.3
68°	583.3	184.6	579.0	1734.3	2986.4	3876.6	4242.6	4930.7	6192.3	7010.2	6933.2
69°	422.5	0.4	406.1	1552.0	2921.7	3748.2	4091.5	4641.1	5956.0	6827.2	6739.6
70°	380.1	0.4	355.7	1441.0	2860.8	3627.7	3870.8	4220.7	5649.1	6615.1	6523.5
71°	338.5	0.4	310.3	1351.9	2781.3	3517.8	3578.7	3747.8	5253.1	6372.0	6291.2
72°	292.4	0.4	264.1	1262.7	2698.2	3385.7	3277.0	3317.0	4793.3	6104.3	6066.0
73°	243.0	0.4	214.7	1173.2	2591.7	3201.7	2995.7	2955.3	4314.0	5776.6	5833.2
74°	198.7	0.4	166.8	1072.3	2443.6	3025.3	2711.8	2551.2	3818.0	5380.3	5583.8
75°	157.2	0.5	136.9	950.0	2275.8	2846.8	2343.6	1970.3	3289.6	4931.8	5296.3
76°	116.1	0.5	126.7	840.7	2054.3	2637.2	1788.1	1237.4	2642.4	4437.1	4952.6
77°	89.5	0.6	138.7	737.7	1754.9	2408.7	1232.6	590.7	1825.9	3893.0	4507.2
78°	96.3	0.7	127.8	634.3	1453.6	2095.7	678.7	377.5	996.7	3239.9	3861.7
79°	130.6	0.8	116.8	554.4	1152.4	1550.0	278.1	174.1	732.4	2498.4	3093.2
80°	134.7	1.0	105.6	510.3	854.2	1004.3	199.3	147.7	468.1	1638.0	2210.5
81°	122.1	1.1	66.0	472.0	678.2	470.5	121.5	128.9	203.9	834.0	1312.6
82°	88.8	1.2	36.6	403.7	566.4	350.0	99.8	111.8	172.5	618.6	570.9
83°	55.6	1.4	27.9	295.7	439.7	229.6	82.6	95.2	148.5	404.5	411.2
84°	33.2	1.6	19.2	187.7	292.6	110.3	67.7	79.2	126.5	190.4	269.0
85°	25.3	1.7	10.6	80.7	193.8	90.5	53.9	62.4	103.9	150.3	234.1
86°	17.5	1.9	9.0	47.6	95.4	72.0	41.6	47.8	82.2	120.7	196.8
87°	9.8	2.1	7.7	28.8	50.7	53.1	30.7	33.3	62.3	95.7	154.8
88°	7.7	2.3	6.6	20.4	35.0	36.7	21.7	18.8	45.9	72.6	106.3
89°	5.3	2.5	4.9	12.0	19.3	20.3	12.7	8.3	29.6	56.3	61.7

REPORT NUMBER: P1445071

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4-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: P1445071

CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4-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: P1445071
CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4-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: P1445071

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

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	4263.8	4263.8	4263.8
1°	4318.3	4326.2	4328.7
2°	4383.7	4399.8	4404.3
3°	4455.8	4478.9	4487.0
4°	4535.4	4569.6	4580.5
5°	4624.9	4668.1	4683.0
6°	4718.9	4774.7	4794.1
7°	4822.1	4892.0	4916.3
8°	4933.4	5017.2	5045.2
9°	5052.1	5152.0	5187.9
10°	5181.5	5299.3	5341.7
11°	5320.8	5457.1	5505.2
12°	5468.0	5624.4	5681.3
13°	5626.2	5807.6	5874.9
14°	5791.9	5997.2	6077.0
15°	5967.3	6196.7	6286.1
16°	6145.8	6403.0	6500.1
17°	6331.7	6613.1	6712.6
18°	6517.5	6819.9	6922.6
19°	6700.7	7017.5	7128.7
20°	6877.9	7209.1	7328.3
21°	7049.1	7392.8	7515.3
22°	7210.4	7564.0	7692.4
23°	7367.8	7734.5	7860.3
24°	7517.2	7900.5	8020.3
25°	7668.0	8059.2	8169.8
26°	7818.8	8203.4	8301.5
27°	7961.1	8332.4	8416.7
28°	8084.2	8444.4	8528.0
29°	8198.1	8556.3	8640.0
30°	8319.3	8684.1	8775.6
31°	8440.4	8801.9	8886.9
32°	8551.7	8888.9	8971.2
33°	8630.1	8933.6	9004.8
34°	8667.6	8929.7	8986.3
35°	8661.7	8878.3	8925.1
36°	8628.8	8800.0	8842.8
37°	8572.1	8719.6	8770.3
38°	8518.1	8668.3	8738.7
39°	8485.9	8643.9	8728.9
40°	8471.4	8632.7	8726.2
41°	8464.8	8627.4	8723.6
42°	8458.2	8624.2	8715.0
43°	8451.6	8617.6	8695.9
44°	8446.4	8606.4	8667.6

REPORT NUMBER: P1445071

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

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	8441.1	8585.3	8627.4
46°	8434.5	8558.3	8581.3
47°	8424.6	8528.0	8528.0
48°	8409.5	8493.8	8472.7
49°	8387.1	8458.2	8413.4
50°	8358.8	8422.0	8348.9
51°	8321.9	8382.5	8277.8
52°	8281.7	8332.4	8196.1
53°	8240.3	8270.5	8107.9
54°	8198.1	8194.2	8009.1
55°	8151.4	8104.6	7897.2
56°	8094.7	7998.6	7768.1
57°	8024.3	7880.1	7627.2
58°	7934.1	7736.5	7469.8
59°	7835.3	7578.5	7298.6
60°	7722.0	7405.3	7098.4
61°	7594.3	7206.4	6844.9
62°	7450.1	6965.4	6543.0
63°	7297.3	6684.3	6205.7
64°	7128.1	6379.9	5872.6
65°	6937.8	6093.7	5584.1
66°	6735.6	5841.9	5354.5
67°	6532.5	5633.3	5204.5
68°	6326.5	5468.1	5127.2
69°	6147.2	5346.4	5057.6
70°	5995.0	5238.0	4869.5
71°	5837.3	5069.9	4497.6
72°	5664.4	4767.9	4007.3
73°	5493.9	4343.4	3520.9
74°	5295.0	3866.1	3061.1
75°	4992.7	3344.9	2398.9
76°	4591.7	2704.5	1507.1
77°	4127.6	1868.2	712.3
78°	3554.4	1000.0	559.4
79°	2751.9	753.4	414.0
80°	1704.2	515.6	268.5
81°	860.5	277.7	244.4
82°	644.8	241.8	222.3
83°	448.0	218.1	201.2
84°	251.2	193.0	179.6
85°	197.8	167.4	158.0
86°	160.9	143.6	134.6
87°	132.4	121.6	111.6
88°	105.1	100.0	91.0
89°	75.5	78.1	74.5

REPORT NUMBER: P1445071

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

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CATALOG NUMBER: XAS300-SFPM (4000K-180W-T4-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: P1445071

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

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)