

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: P1445027

Luminaire Tested: XAS180-SFPM (5000K-180W-T3-HSS)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445027
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: XAS180-SFPM (5000K-180W-T3-HSS)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 100% (180W)
OPTICS - TYPE 3 WITH HOUSE SIDE SHIELD
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 24407 (1 lamp)
Luminaire Lumens: 23462.3 lumens
Efficiency: 96.1%
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 0.29m x L: 0.35m x H: 0m)
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 180.8
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

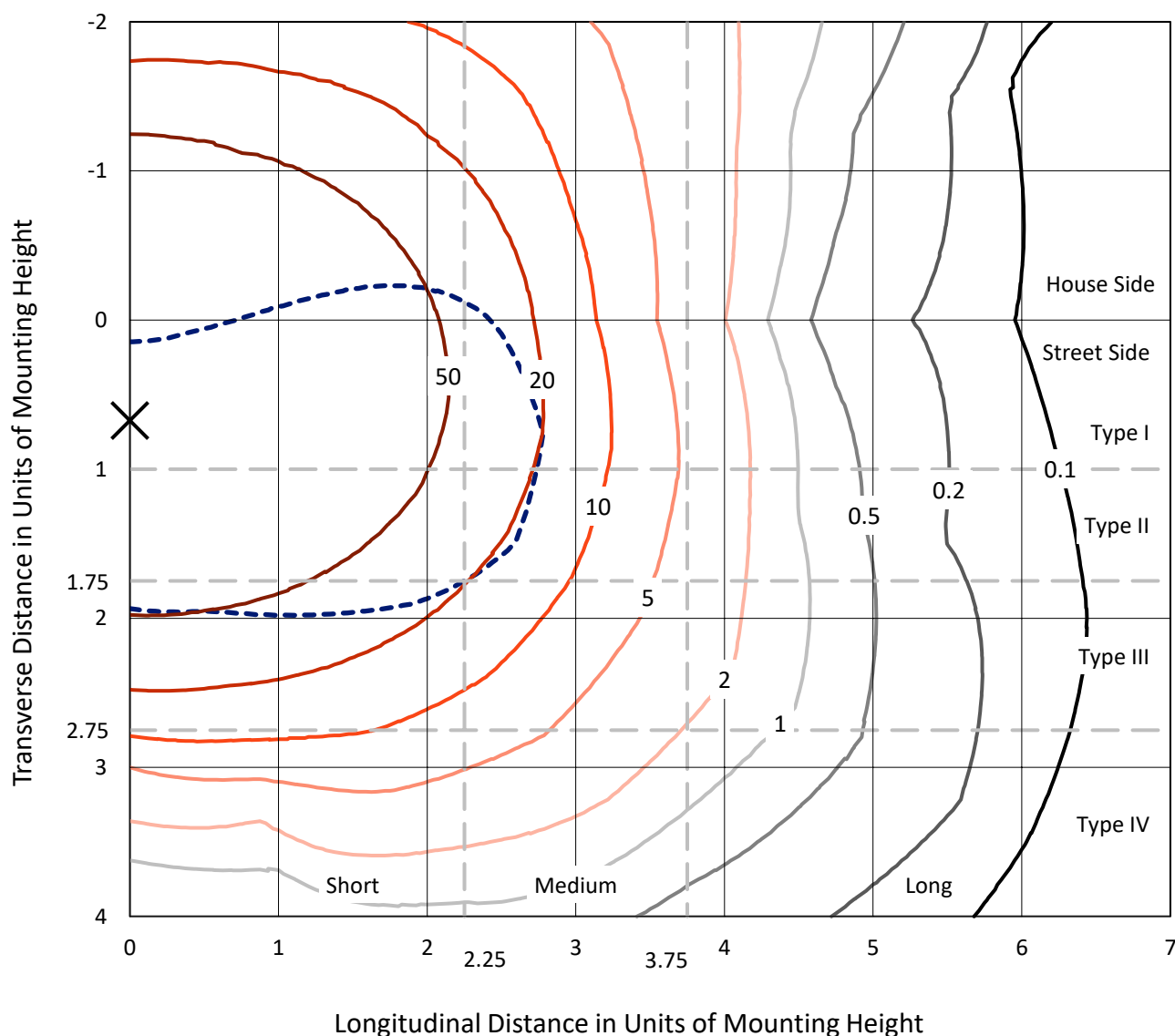
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

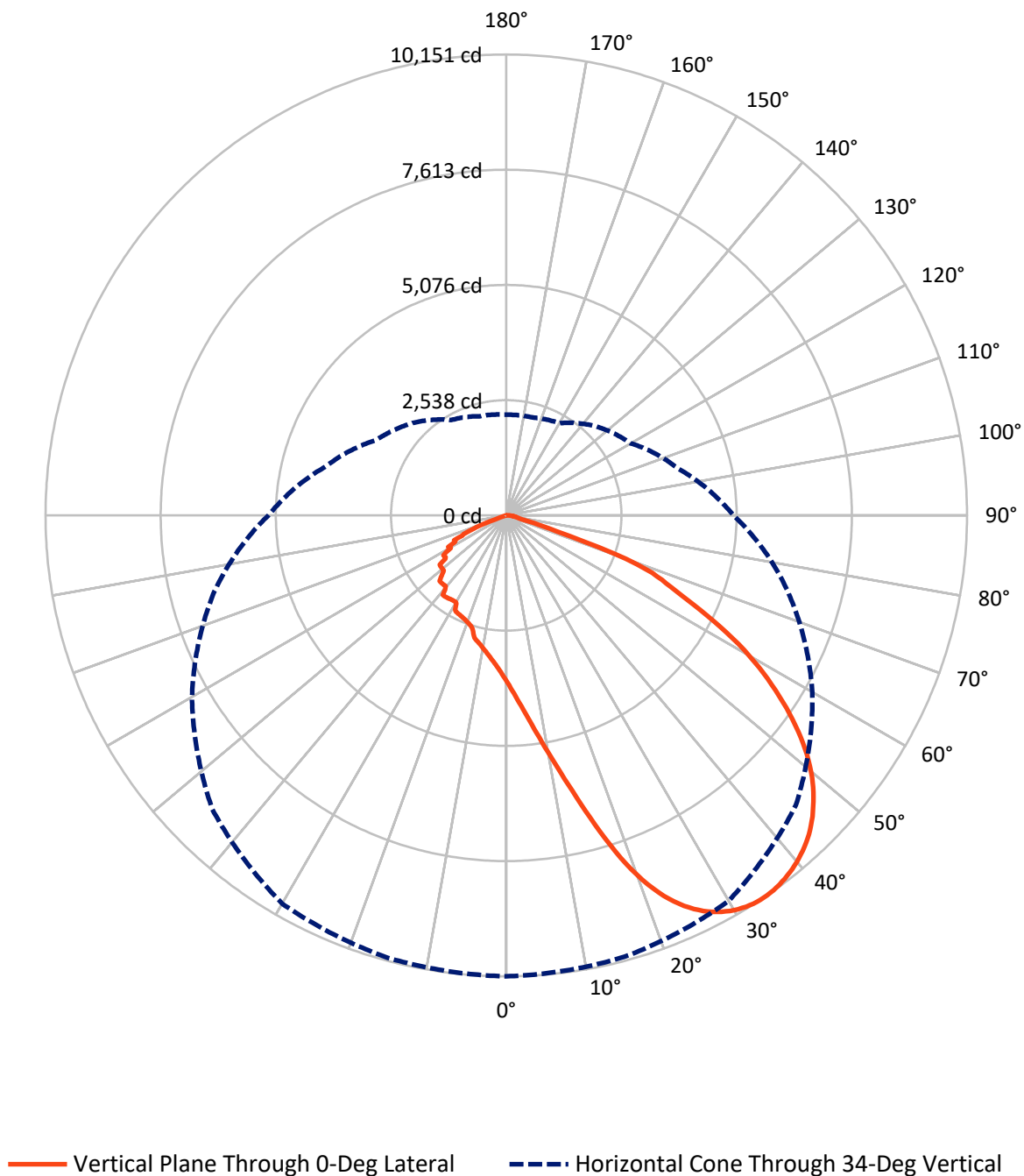


Based on 3 foot mounting height. Maximum calculated value = 795.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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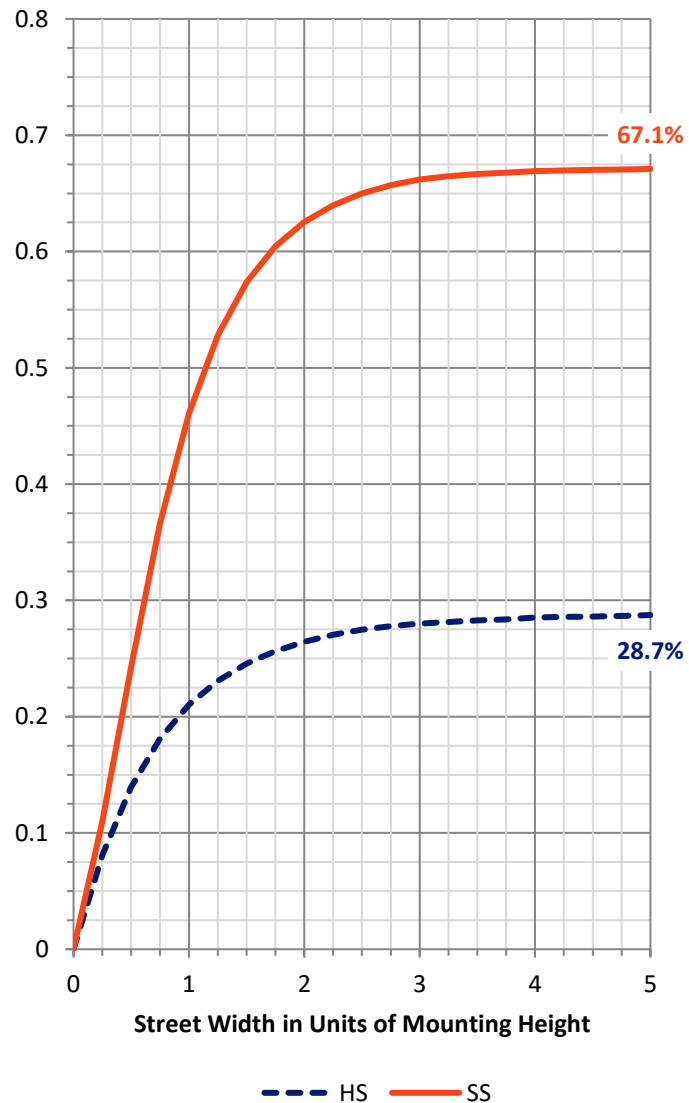
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7056.2	0.0	7056.2
	% Lamp	28.9	0.0	28.9
Street Side	Lumens	16406.1	0.0	16406.1
	% Lamp	67.2	0.0	67.2
Total	Lumens	23462.3	0.0	23462.3
	% Lamp	96.1	0.0	96.1

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	368.5	1.6	1.5
10°-20°	1280.1	5.5	5.2
20°-30°	2483.6	10.6	10.2
30°-40°	3651.3	15.6	15.0
40°-50°	4530.7	19.3	18.6
50°-60°	4827.5	20.6	19.8
60°-70°	4196.8	17.9	17.2
70°-80°	1941.5	8.3	8.0
80°-90°	182.4	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°	23462.3	100.0	96.1
0°-180°	23462.3	100.0	96.1

Coefficient of Utilization



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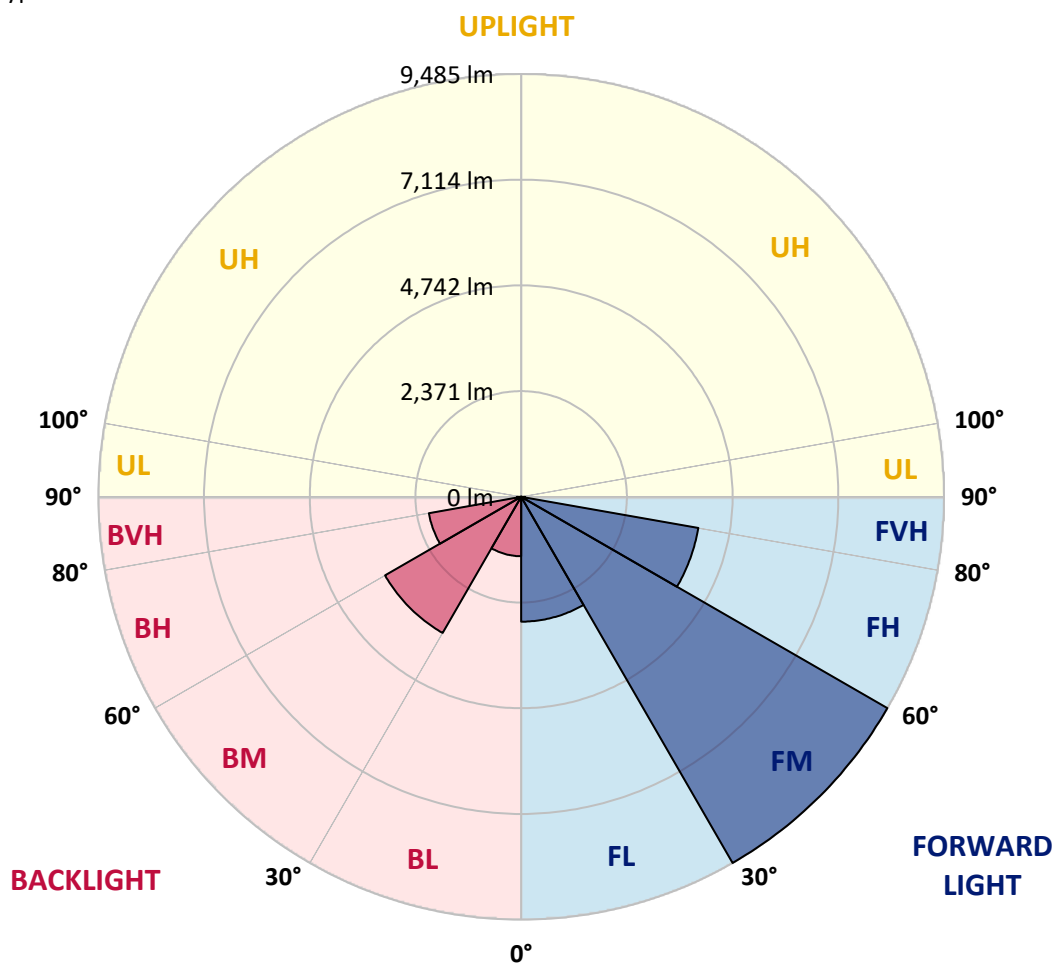
CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2800.1	11.5			
FM	(30°-60°)	9484.8	38.9			
FH	(60°-80°)	4035.5	16.5			G2/5000
FVH	(80°-90°)	85.6	0.4			G1/100
BL	(0°-30°)	1332.1	5.5	B3/2500		
BM	(30°-60°)	3524.6	14.4	B3/5000		
BH	(60°-80°)	2102.7	8.6	B3/2500		G3/2500
BVH	(80°-90°)	96.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		944.7	3.9			

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1
1°	3802.2	3800.0	3790.7	3773.4	3750.3	3723.3	3674.5	3649.2	3626.4	3608.3	3595.0
2°	3926.9	3921.8	3897.1	3859.6	3809.7	3753.5	3676.2	3623.9	3577.6	3540.9	3512.1
3°	4062.7	4049.1	4010.8	3950.7	3875.7	3790.3	3682.2	3604.3	3535.1	3478.8	3437.2
4°	4211.9	4191.9	4137.4	4052.4	3945.8	3829.6	3691.0	3587.5	3496.7	3422.5	3369.7
5°	4374.6	4349.0	4272.9	4162.1	4021.7	3873.1	3703.1	3573.0	3462.0	3372.7	3309.9
6°	4553.4	4516.5	4422.9	4281.5	4107.0	3920.8	3717.6	3562.5	3430.0	3328.4	3255.0
7°	4742.6	4697.7	4582.5	4409.1	4196.1	3973.8	3737.9	3557.0	3404.0	3287.7	3203.1
8°	4949.5	4897.4	4756.3	4545.7	4292.6	4030.6	3762.0	3555.1	3381.7	3250.6	3156.9
9°	5174.7	5112.2	4941.4	4693.2	4395.3	4091.7	3788.4	3554.8	3364.1	3216.7	3113.1
10°	5410.1	5334.8	5139.7	4846.5	4504.3	4158.2	3819.0	3558.4	3347.6	3187.8	3072.1
11°	5665.8	5579.5	5350.5	5012.0	4619.8	4228.8	3852.4	3564.6	3334.2	3161.3	3035.1
12°	5943.3	5841.8	5573.2	5189.8	4740.4	4302.9	3888.2	3573.2	3324.1	3137.2	3001.9
13°	6238.5	6119.4	5814.6	5375.0	4869.2	4381.8	3926.2	3583.2	3315.5	3114.7	2971.2
14°	6559.5	6427.0	6073.6	5571.7	5003.6	4463.1	3963.9	3593.5	3307.8	3094.5	2942.5
15°	6903.0	6748.4	6348.0	5781.0	5144.7	4546.7	4005.6	3605.7	3301.7	3075.8	2913.7
16°	7257.2	7082.5	6632.4	6003.4	5292.2	4633.4	4049.7	3620.4	3297.2	3058.2	2887.6
17°	7605.8	7413.9	6911.7	6232.0	5448.2	4723.7	4095.2	3635.7	3293.9	3042.0	2861.3
18°	7953.3	7739.3	7192.4	6457.1	5612.3	4817.4	4141.3	3649.1	3291.6	3027.0	2820.9
19°	8275.9	8052.8	7469.0	6679.3	5781.1	4914.4	4173.5	3652.4	3284.9	3013.5	2726.5
20°	8571.4	8342.7	7737.8	6901.1	5949.5	5006.5	4213.9	3661.6	3269.8	3000.1	2659.5
21°	8836.4	8608.1	7990.5	7115.0	6120.7	5090.3	4254.7	3682.2	3258.5	2985.2	2641.6
22°	9067.0	8846.1	8228.4	7321.3	6287.8	5189.4	4308.3	3703.6	3260.4	2931.9	2625.4
23°	9271.0	9061.8	8445.6	7520.4	6453.5	5285.4	4365.0	3723.2	3262.5	2864.0	2611.6
24°	9449.2	9251.1	8650.9	7706.7	6599.3	5396.6	4417.9	3734.8	3258.1	2809.6	2601.2
25°	9603.6	9417.2	8836.1	7886.3	6739.6	5512.6	4462.5	3751.0	3253.6	2800.8	2591.1
26°	9734.0	9560.5	9005.0	8051.2	6878.1	5626.3	4509.5	3767.0	3250.8	2790.1	2583.2
27°	9843.6	9684.9	9161.2	8213.2	7011.5	5737.7	4562.1	3792.1	3257.2	2775.9	2574.5
28°	9933.9	9787.8	9297.0	8365.2	7135.9	5836.6	4616.2	3817.2	3266.7	2765.7	2566.6
29°	10008.9	9871.4	9415.8	8504.5	7257.9	5930.1	4679.8	3842.4	3274.9	2765.4	2560.4
30°	10065.6	9940.7	9521.2	8636.8	7381.8	6027.6	4743.5	3869.4	3263.9	2767.7	2554.3
31°	10109.8	9993.5	9612.0	8757.0	7496.5	6126.1	4809.8	3897.1	3215.3	2771.2	2542.6
32°	10136.8	10032.0	9686.9	8856.5	7604.2	6220.2	4875.4	3921.3	3205.0	2774.5	2527.0
33°	10150.2	10055.0	9751.3	8944.8	7702.0	6318.7	4941.7	3928.6	3166.7	2777.6	2428.4
34°	10151.2	10064.7	9801.3	9024.4	7787.5	6415.0	5005.6	3936.4	3170.9	2777.8	2343.5
35°	10139.6	10063.7	9838.8	9100.1	7863.7	6506.8	5052.7	3955.8	3177.1	2775.6	2338.5
36°	10117.5	10052.2	9860.9	9166.6	7935.1	6594.8	5091.6	3978.3	3185.3	2774.5	2340.3
37°	10083.9	10030.0	9871.4	9222.1	8004.9	6679.0	5136.1	4001.9	3199.5	2778.3	2342.0
38°	10041.6	9997.4	9872.4	9264.7	8073.2	6762.5	5191.2	4028.8	3208.4	2779.3	2340.3
39°	9989.7	9958.0	9861.8	9300.0	8133.6	6838.4	5240.8	4057.8	3210.6	2646.6	2338.8
40°	9930.1	9908.9	9837.8	9327.7	8191.9	6901.5	5294.1	4078.9	3224.5	2585.8	2344.7
41°	9858.9	9849.3	9806.1	9349.4	8242.4	6946.4	5345.3	4098.1	3245.6	2594.6	2350.3
42°	9777.2	9783.0	9762.8	9368.0	8296.1	6990.1	5397.7	4114.8	3266.8	2607.0	2356.8
43°	9684.0	9705.1	9709.0	9373.7	8346.6	7034.9	5447.0	4124.2	3289.3	2621.0	2359.2
44°	9578.9	9618.6	9646.5	9367.3	8392.0	7083.9	5488.3	4152.7	3313.5	2636.2	2283.3

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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	9460.0	9519.3	9572.0	9347.6	8432.3	7131.0	5520.9	4192.2	3338.6	2649.3	2180.0
46°	9323.9	9407.0	9489.6	9317.0	8469.9	7177.7	5550.5	4232.8	3349.2	2649.0	2182.7
47°	9180.5	9278.6	9396.9	9272.9	8502.2	7222.0	5569.3	4274.8	3348.0	2655.8	2189.0
48°	9029.4	9140.6	9293.0	9217.4	8526.4	7258.8	5583.1	4318.8	3359.4	2671.5	2192.1
49°	8858.1	8982.1	9175.9	9154.0	8540.2	7295.0	5612.2	4356.3	3301.2	2681.3	2189.3
50°	8667.9	8811.7	9042.7	9078.5	8540.9	7328.5	5652.4	4364.2	3249.5	2596.3	2189.7
51°	8462.2	8621.3	8891.8	8987.7	8525.0	7350.0	5692.5	4336.0	3201.7	2492.3	2193.2
52°	8240.7	8414.4	8727.3	8883.0	8502.8	7361.4	5728.9	4362.1	3225.6	2500.4	2094.8
53°	8004.9	8189.7	8544.6	8767.5	8467.2	7366.4	5760.9	4370.7	3247.0	2516.0	1988.7
54°	7751.4	7945.3	8348.7	8634.9	8420.4	7365.4	5789.3	4366.0	3258.6	2536.9	1998.9
55°	7492.9	7693.6	8136.4	8488.3	8358.2	7345.2	5812.5	4392.1	3276.8	2548.5	2013.1
56°	7213.5	7429.4	7906.8	8329.2	8288.2	7309.8	5817.4	4409.0	3306.3	2556.8	2029.3
57°	6935.4	7152.7	7670.7	8152.9	8207.5	7264.5	5811.6	4408.9	3330.1	2553.3	2044.9
58°	6646.1	6868.7	7423.0	7962.1	8111.6	7222.6	5788.6	4424.1	3340.8	2416.4	2053.1
59°	6344.3	6580.3	7162.6	7763.2	7999.2	7178.6	5766.7	4438.4	3363.1	2383.9	1890.7
60°	6021.8	6278.8	6895.7	7546.1	7866.4	7124.3	5746.2	4427.7	3272.0	2416.6	1904.2
61°	5677.2	5960.4	6616.2	7320.0	7715.4	7057.4	5709.8	4389.5	3220.4	2455.4	1909.8
62°	5317.2	5629.4	6334.2	7079.9	7555.2	6972.1	5669.2	4377.8	3241.5	2496.9	1854.4
63°	4939.8	5283.2	6048.0	6828.7	7375.3	6867.1	5612.8	4346.4	3257.3	2528.5	1799.3
64°	4574.5	4941.8	5761.8	6572.2	7174.5	6743.1	5535.2	4296.4	3269.2	2410.6	1787.3
65°	4243.2	4601.4	5464.9	6308.0	6958.6	6596.2	5440.3	4238.4	3253.5	2423.2	1807.4
66°	3952.0	4293.2	5175.1	6039.8	6728.2	6425.2	5315.8	4152.3	3164.5	2454.1	1701.7
67°	3712.8	4012.3	4887.1	5773.4	6481.6	6226.2	5184.6	4061.4	3066.2	2434.2	1677.1
68°	3455.8	3765.9	4606.7	5499.9	6203.6	6003.7	4988.0	3928.0	3090.1	2374.0	1719.6
69°	3078.6	3506.4	4343.1	5233.5	5909.8	5736.7	4690.5	3769.2	3104.3	2390.3	1573.1
70°	2525.4	3163.5	4097.2	4964.2	5608.6	5405.8	4259.9	3555.2	3110.6	2326.3	1566.0
71°	1797.9	2684.6	3850.7	4696.4	5267.5	5013.5	3765.9	3276.0	3047.3	2331.7	1355.4
72°	1144.3	2032.9	3573.5	4418.4	4888.7	4552.6	3342.6	2965.2	2931.8	2318.4	1307.1
73°	880.7	1345.7	3241.0	4132.3	4465.5	4052.5	2940.3	2693.0	2816.7	2284.0	1212.5
74°	625.2	818.1	2791.9	3809.6	4016.4	3544.6	2379.5	2492.0	2691.4	2303.4	1098.8
75°	369.8	602.8	2168.9	3396.6	3527.4	2997.7	1818.7	2108.2	2548.6	2255.6	1058.3
76°	326.2	393.9	1513.9	2886.9	3023.3	2316.5	1257.5	1724.4	2422.7	2193.9	1031.5
77°	291.8	338.3	987.6	2255.7	2499.8	1524.3	686.8	1339.6	2318.3	1984.2	973.4
78°	263.7	298.7	772.1	1505.6	1940.6	876.8	358.3	773.0	2015.5	1774.3	878.1
79°	238.9	266.7	566.3	821.0	1349.8	608.3	293.0	566.2	1712.8	1562.5	745.5
80°	216.4	239.1	360.5	566.7	843.8	341.9	227.8	359.4	1405.3	1274.8	638.6
81°	195.5	214.3	304.9	323.2	553.9	288.6	163.4	156.0	780.3	953.9	577.1
82°	176.2	191.4	264.4	276.4	269.4	246.6	137.9	121.2	571.9	759.9	574.9
83°	157.6	169.8	228.9	241.2	209.2	200.1	114.9	93.6	363.5	602.0	472.2
84°	139.7	149.7	193.7	209.6	170.0	151.8	93.2	73.3	155.8	429.8	351.3
85°	122.5	130.9	156.5	179.5	135.4	115.8	72.1	56.6	136.8	318.1	248.2
86°	105.5	113.0	127.6	150.2	105.5	89.7	52.9	42.9	109.6	206.3	145.6
87°	90.8	96.1	103.3	118.4	82.5	67.6	40.6	33.2	81.2	95.9	89.3
88°	76.2	81.8	84.6	91.0	59.6	45.6	28.3	23.6	61.6	65.2	60.9
89°	61.6	67.6	66.0	63.6	36.7	26.6	16.0	14.0	42.0	34.6	32.4



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CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445027

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445027
CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445027

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1	3687.1
1°	3589.0	3589.2	3594.3	3607.7	3625.3	3648.2	3672.9	3680.5	3709.9	3737.4	3761.4
2°	3498.0	3495.5	3506.2	3528.9	3562.3	3604.1	3653.8	3688.8	3746.9	3803.0	3852.7
3°	3415.4	3409.9	3423.6	3455.6	3504.4	3566.0	3638.5	3701.7	3787.9	3871.9	3947.4
4°	3340.7	3334.8	3350.1	3389.4	3451.2	3532.1	3627.6	3717.1	3832.8	3946.6	4052.5
5°	3274.6	3266.3	3283.5	3330.6	3403.4	3502.4	3620.2	3736.1	3882.5	4029.4	4165.5
6°	3211.8	3201.7	3222.4	3276.7	3362.2	3475.5	3615.4	3758.5	3936.8	4119.9	4288.9
7°	3154.6	3142.2	3165.1	3226.3	3323.5	3453.7	3614.8	3786.3	3994.9	4214.8	4420.8
8°	3101.8	3086.8	3112.4	3181.0	3288.8	3434.3	3617.0	3814.1	4057.7	4315.9	4562.5
9°	3051.5	3034.2	3062.8	3138.6	3258.2	3418.2	3621.2	3846.1	4126.1	4424.6	4714.8
10°	3004.7	2986.0	3017.5	3100.0	3229.1	3404.3	3627.4	3881.6	4196.9	4539.3	4874.0
11°	2961.5	2940.6	2975.3	3065.1	3204.7	3393.0	3636.8	3921.8	4274.8	4661.8	5045.5
12°	2922.0	2899.7	2934.8	3032.0	3182.6	3384.1	3649.5	3963.4	4353.6	4791.7	5227.2
13°	2886.0	2860.6	2898.9	3001.8	3162.9	3378.3	3664.4	4008.1	4438.1	4927.8	5421.9
14°	2851.3	2822.9	2864.3	2973.7	3146.0	3374.5	3680.9	4053.6	4525.3	5069.4	5628.2
15°	2817.2	2786.1	2830.5	2946.8	3130.6	3373.6	3698.2	4102.5	4616.8	5223.8	5849.6
16°	2778.0	2703.8	2792.9	2921.2	3115.6	3373.9	3716.1	4153.5	4711.8	5382.2	6082.5
17°	2671.3	2611.6	2691.4	2896.1	3102.0	3374.6	3737.8	4204.7	4811.2	5552.1	6317.4
18°	2596.1	2563.5	2614.3	2856.7	3090.2	3376.8	3759.4	4258.1	4914.1	5727.5	6555.3
19°	2568.7	2535.5	2585.2	2770.0	3078.4	3377.1	3768.0	4304.0	5020.1	5905.8	6795.3
20°	2545.0	2510.2	2561.3	2705.2	3066.9	3366.4	3782.9	4346.3	5131.2	6086.6	7028.1
21°	2524.2	2489.2	2540.2	2680.9	3053.4	3359.3	3804.9	4394.2	5232.3	6269.7	7251.5
22°	2507.4	2470.1	2523.5	2666.4	3001.0	3364.4	3832.9	4452.9	5334.7	6453.0	7462.8
23°	2492.9	2454.1	2510.0	2653.8	2938.3	3371.5	3860.9	4516.2	5451.5	6628.6	7658.9
24°	2479.3	2439.3	2497.4	2643.9	2892.4	3378.7	3885.3	4581.1	5568.1	6801.8	7846.2
25°	2467.3	2425.0	2485.5	2635.7	2879.9	3376.8	3902.5	4642.5	5694.1	6951.5	8021.1
26°	2455.1	2413.4	2475.3	2629.3	2874.7	3376.5	3924.8	4694.5	5820.7	7088.8	8187.6
27°	2445.0	2403.7	2466.0	2623.6	2862.9	3378.4	3945.9	4752.8	5948.5	7225.0	8344.2
28°	2436.8	2395.3	2458.4	2618.1	2854.2	3390.0	3976.6	4813.5	6068.2	7355.4	8493.4
29°	2428.3	2359.8	2450.2	2613.6	2853.4	3401.0	4008.3	4881.3	6173.6	7472.0	8629.5
30°	2362.4	2231.3	2394.7	2610.2	2857.9	3392.4	4040.3	4952.1	6279.7	7591.0	8758.6
31°	2250.9	2206.6	2281.4	2599.5	2863.5	3365.3	4071.5	5023.1	6385.6	7705.0	8878.9
32°	2232.6	2207.3	2261.1	2587.3	2870.7	3338.9	4101.8	5095.3	6484.9	7812.7	8987.8
33°	2231.0	2210.3	2260.2	2513.5	2877.8	3313.3	4115.2	5166.6	6582.6	7909.3	9078.8
34°	2232.0	2215.8	2261.2	2424.7	2884.8	3314.3	4128.7	5238.9	6681.0	7995.2	9156.6
35°	2233.9	2223.1	2264.1	2412.6	2886.1	3322.2	4151.4	5300.1	6774.9	8069.3	9225.1
36°	2237.4	2229.5	2268.5	2415.9	2886.6	3332.0	4177.0	5347.5	6862.8	8138.1	9289.9
37°	2238.6	2235.0	2271.4	2420.5	2887.3	3344.7	4205.3	5398.2	6946.1	8205.7	9346.2
38°	2239.0	2240.0	2273.3	2419.9	2887.8	3359.2	4237.1	5454.7	7025.6	8271.6	9392.9
39°	2238.4	2240.3	2275.0	2419.0	2779.4	3365.4	4271.3	5509.4	7100.6	8329.8	9426.6
40°	2233.8	2117.2	2272.3	2424.0	2715.7	3375.9	4303.7	5567.2	7166.0	8383.6	9455.0
41°	2107.5	2054.0	2161.5	2431.8	2717.0	3399.4	4325.9	5622.4	7213.5	8434.3	9472.3
42°	2037.8	2054.9	2079.8	2439.8	2729.0	3424.0	4343.1	5675.6	7252.6	8485.6	9482.1
43°	2036.6	2058.4	2079.0	2445.6	2743.0	3450.1	4354.1	5730.7	7293.2	8529.3	9482.7
44°	2038.3	2061.0	2082.5	2393.9	2759.1	3477.1	4387.4	5782.8	7331.4	8569.4	9474.1

REPORT NUMBER: P1445027

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	2040.8	2061.0	2086.7	2277.7	2774.5	3502.9	4429.4	5821.8	7371.9	8601.7	9449.9
46°	2043.0	2057.9	2089.9	2271.9	2778.3	3516.7	4472.9	5851.1	7412.4	8630.1	9409.8
47°	2044.4	1983.9	2092.4	2279.2	2782.2	3518.6	4516.8	5869.3	7446.5	8652.1	9354.7
48°	1976.6	1909.9	2092.2	2283.1	2800.6	3532.3	4560.0	5879.3	7477.5	8664.4	9291.6
49°	1908.9	1837.1	1969.8	2279.4	2811.4	3522.4	4602.0	5905.4	7499.7	8667.9	9216.2
50°	1841.5	1833.0	1881.4	2279.0	2754.2	3444.0	4628.1	5938.5	7516.2	8653.5	9133.7
51°	1848.5	1831.0	1887.5	2283.7	2629.1	3397.1	4607.4	5967.9	7525.0	8620.4	9038.4
52°	1858.4	1831.2	1896.8	2209.2	2630.5	3413.4	4594.2	5994.8	7523.5	8578.4	8929.4
53°	1868.9	1830.7	1906.8	2084.4	2650.1	3437.8	4611.0	6015.4	7509.5	8524.6	8807.0
54°	1877.4	1822.3	1861.9	2095.0	2675.0	3450.1	4604.4	6029.1	7486.3	8460.2	8666.8
55°	1881.2	1649.9	1816.9	2111.1	2689.6	3458.0	4601.0	6038.2	7443.6	8385.7	8518.1
56°	1718.2	1622.9	1772.1	2130.1	2701.9	3489.7	4606.8	6028.4	7379.9	8303.6	8353.8
57°	1688.1	1630.2	1735.4	2149.6	2700.0	3513.1	4597.1	5999.5	7310.5	8212.8	8180.3
58°	1695.6	1638.6	1743.3	2163.6	2583.5	3520.5	4597.3	5955.9	7239.2	8102.7	7991.6
59°	1706.7	1566.4	1753.1	2005.5	2544.4	3535.3	4599.6	5913.5	7170.5	7982.4	7790.8
60°	1582.8	1423.3	1642.3	2007.8	2580.1	3459.9	4572.6	5866.9	7091.8	7843.4	7571.9
61°	1508.8	1439.0	1563.0	2019.0	2619.4	3375.0	4515.5	5808.2	6996.1	7687.5	7338.1
62°	1527.0	1453.8	1583.2	2040.4	2660.0	3377.2	4488.8	5739.3	6887.4	7516.3	7100.6
63°	1545.9	1272.9	1599.9	1916.2	2692.4	3378.7	4453.6	5659.2	6762.8	7322.2	6849.5
64°	1345.6	1256.5	1393.8	1900.2	2575.6	3379.3	4388.2	5551.7	6619.7	7118.7	6595.0
65°	1358.4	1271.9	1399.9	1864.2	2578.2	3357.3	4320.5	5417.2	6453.9	6895.8	6327.5
66°	1367.8	1062.4	1417.8	1828.3	2594.4	3275.4	4221.3	5266.8	6256.6	6662.9	6051.3
67°	1132.6	1028.0	1175.6	1794.3	2576.6	3149.5	4108.9	5085.9	6043.2	6406.5	5777.6
68°	1151.8	793.5	1189.2	1833.3	2510.0	3157.3	3943.7	4815.5	5787.3	6125.8	5499.6
69°	921.0	715.8	956.9	1686.2	2506.0	3156.6	3729.7	4429.1	5482.6	5823.8	5232.5
70°	879.7	489.9	903.1	1669.5	2445.7	3149.3	3451.6	3919.3	5104.3	5488.9	4947.9
71°	582.5	264.0	584.4	1454.7	2418.9	3074.3	3130.2	3436.8	4651.9	5115.7	4654.7
72°	361.4	40.3	341.9	1405.9	2401.8	2936.2	2814.8	3008.7	4140.7	4701.1	4356.6
73°	298.3	0.5	272.0	1275.6	2350.9	2794.5	2525.2	2558.5	3613.7	4245.8	4033.9
74°	269.3	0.4	250.8	1134.6	2346.2	2653.5	2167.7	2048.5	3092.9	3755.6	3679.1
75°	221.1	0.4	214.7	1067.1	2226.5	2502.1	1810.1	1416.5	2533.1	3221.6	3239.5
76°	173.0	0.4	178.6	1029.9	2042.7	2332.2	1451.1	823.3	1845.9	2690.3	2716.2
77°	125.3	0.4	142.6	970.0	1858.9	2044.2	894.2	545.7	1132.9	2184.0	2079.4
78°	93.3	0.4	115.0	873.8	1674.8	1756.2	466.4	271.9	857.4	1652.2	1369.2
79°	92.0	0.4	114.9	739.5	1449.3	1461.7	313.1	212.5	590.6	1102.7	1013.5
80°	125.4	0.5	140.4	645.2	1196.1	885.4	163.4	179.7	323.9	820.6	666.9
81°	154.6	0.6	147.6	601.6	904.9	639.3	129.3	153.1	277.3	541.5	320.3
82°	139.3	0.6	90.7	566.1	698.7	393.1	105.2	128.5	237.0	262.3	276.1
83°	86.5	0.7	63.9	471.4	497.7	150.2	84.9	106.0	193.3	205.2	242.3
84°	47.1	0.8	37.2	338.4	358.9	127.0	67.5	86.3	150.4	167.2	210.4
85°	35.1	0.9	10.6	205.4	220.1	100.9	52.9	66.5	114.7	132.4	179.7
86°	23.1	1.0	9.4	75.6	84.6	74.3	40.2	46.8	91.1	102.4	149.9
87°	11.3	1.2	9.4	52.5	43.4	53.2	30.5	30.9	67.5	80.1	116.9
88°	7.8	1.3	8.1	29.4	30.1	36.9	20.8	17.8	44.0	58.0	89.9
89°	5.5	1.4	4.5	6.7	16.7	20.6	11.0	12.3	25.6	35.8	63.0

REPORT NUMBER: P1445027

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445027

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445027
CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445027

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	3687.1	3687.1	3687.1
1°	3781.4	3795.6	3802.2
2°	3890.5	3917.2	3926.9
3°	4008.2	4047.9	4062.7
4°	4138.5	4194.0	4211.9
5°	4276.5	4350.4	4374.6
6°	4429.7	4522.7	4553.4
7°	4592.9	4703.4	4742.6
8°	4766.7	4901.7	4949.5
9°	4955.1	5117.3	5174.7
10°	5154.9	5345.3	5410.1
11°	5374.4	5593.8	5665.8
12°	5605.0	5859.2	5943.3
13°	5855.5	6147.0	6238.5
14°	6118.2	6450.6	6559.5
15°	6400.1	6773.2	6903.0
16°	6683.4	7101.3	7257.2
17°	6974.4	7439.6	7605.8
18°	7265.7	7773.1	7953.3
19°	7545.9	8087.4	8275.9
20°	7814.7	8382.7	8571.4
21°	8068.1	8653.0	8836.4
22°	8302.5	8891.5	9067.0
23°	8526.0	9109.0	9271.0
24°	8734.4	9295.3	9449.2
25°	8923.2	9458.8	9603.6
26°	9094.2	9596.2	9734.0
27°	9248.6	9715.7	9843.6
28°	9385.2	9815.7	9933.9
29°	9503.7	9897.4	10008.9
30°	9607.5	9963.7	10065.6
31°	9695.5	10015.6	10109.8
32°	9767.6	10054.1	10136.8
33°	9825.3	10076.2	10150.2
34°	9872.4	10085.8	10151.2
35°	9906.0	10082.9	10139.6
36°	9926.2	10068.5	10117.5
37°	9933.9	10044.5	10083.9
38°	9931.0	10010.8	10041.6
39°	9915.7	9968.5	9989.7
40°	9889.7	9918.5	9930.1
41°	9855.1	9860.9	9858.9
42°	9809.9	9794.5	9777.2
43°	9753.2	9719.6	9684.0
44°	9685.9	9632.1	9578.9

REPORT NUMBER: P1445027

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	9612.3	9535.4	9460.0
46°	9529.1	9426.7	9323.9
47°	9434.5	9300.5	9180.5
48°	9332.0	9168.4	9029.4
49°	9214.5	9014.6	8858.1
50°	9083.9	8849.6	8667.9
51°	8935.0	8664.7	8462.2
52°	8769.4	8460.7	8240.7
53°	8585.3	8239.8	8004.9
54°	8388.8	8002.2	7751.4
55°	8180.8	7752.7	7492.9
56°	7952.3	7482.9	7213.5
57°	7715.9	7198.6	6935.4
58°	7467.3	6916.1	6646.1
59°	7207.0	6623.2	6344.3
60°	6934.8	6321.7	6021.8
61°	6656.3	6000.9	5677.2
62°	6373.3	5675.2	5317.2
63°	6091.7	5335.3	4939.8
64°	5813.4	4997.3	4574.5
65°	5529.8	4660.7	4243.2
66°	5244.1	4354.7	3952.0
67°	4959.3	4074.8	3712.8
68°	4678.3	3832.1	3455.8
69°	4411.2	3571.7	3078.6
70°	4160.4	3246.5	2525.4
71°	3901.8	2798.8	1797.9
72°	3615.1	2169.0	1144.3
73°	3271.5	1470.5	880.7
74°	2805.1	897.8	625.2
75°	2198.2	654.3	369.8
76°	1564.7	412.1	326.2
77°	1048.6	350.2	291.8
78°	818.7	308.2	263.7
79°	595.3	274.1	238.9
80°	371.9	245.0	216.4
81°	310.5	219.3	195.5
82°	267.5	196.0	176.2
83°	230.3	174.0	157.6
84°	194.6	153.7	139.7
85°	157.6	133.8	122.5
86°	128.3	115.5	105.5
87°	103.5	97.7	90.8
88°	84.7	82.8	76.2
89°	66.2	68.1	61.6

REPORT NUMBER: P1445027

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445027

CATALOG NUMBER: XAS180-SFPM (5000K-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: P1445027

CATALOG NUMBER: XAS180-SFPM (5000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)