

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: P1444979

Luminaire Tested: XAS180-SFPM (3000K-180W-T3-HSS)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1444979
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 (3000K-180W-T3-HSS)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 100% (180W)
OPTICS - TYPE 3 WITH HOUSE SIDE SHIELD
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 24407 (1 lamp)
Luminaire Lumens: 22186.3 lumens
Efficiency: 90.9%
Efficacy: 122.7 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

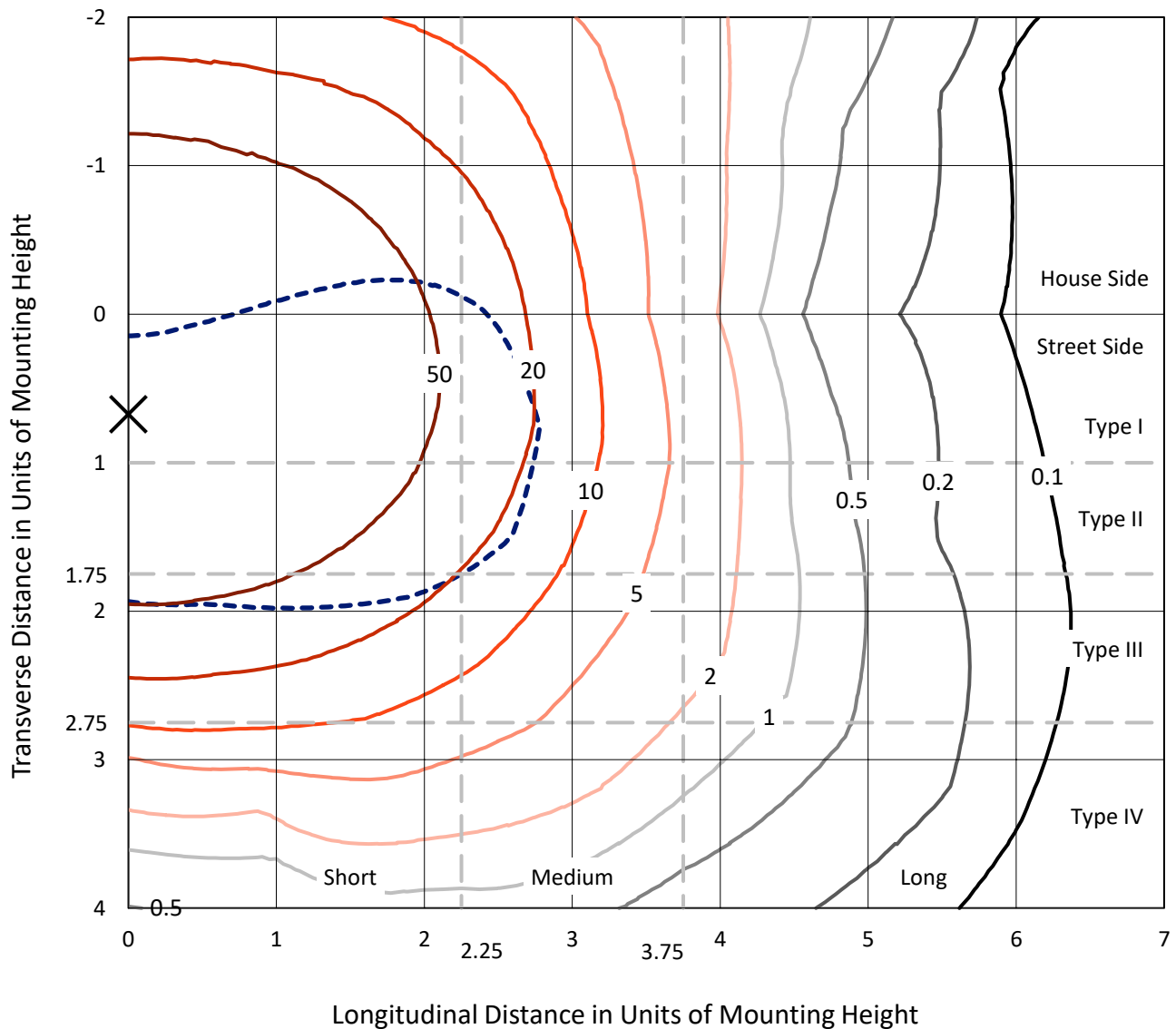
Input Watts (W): 180.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

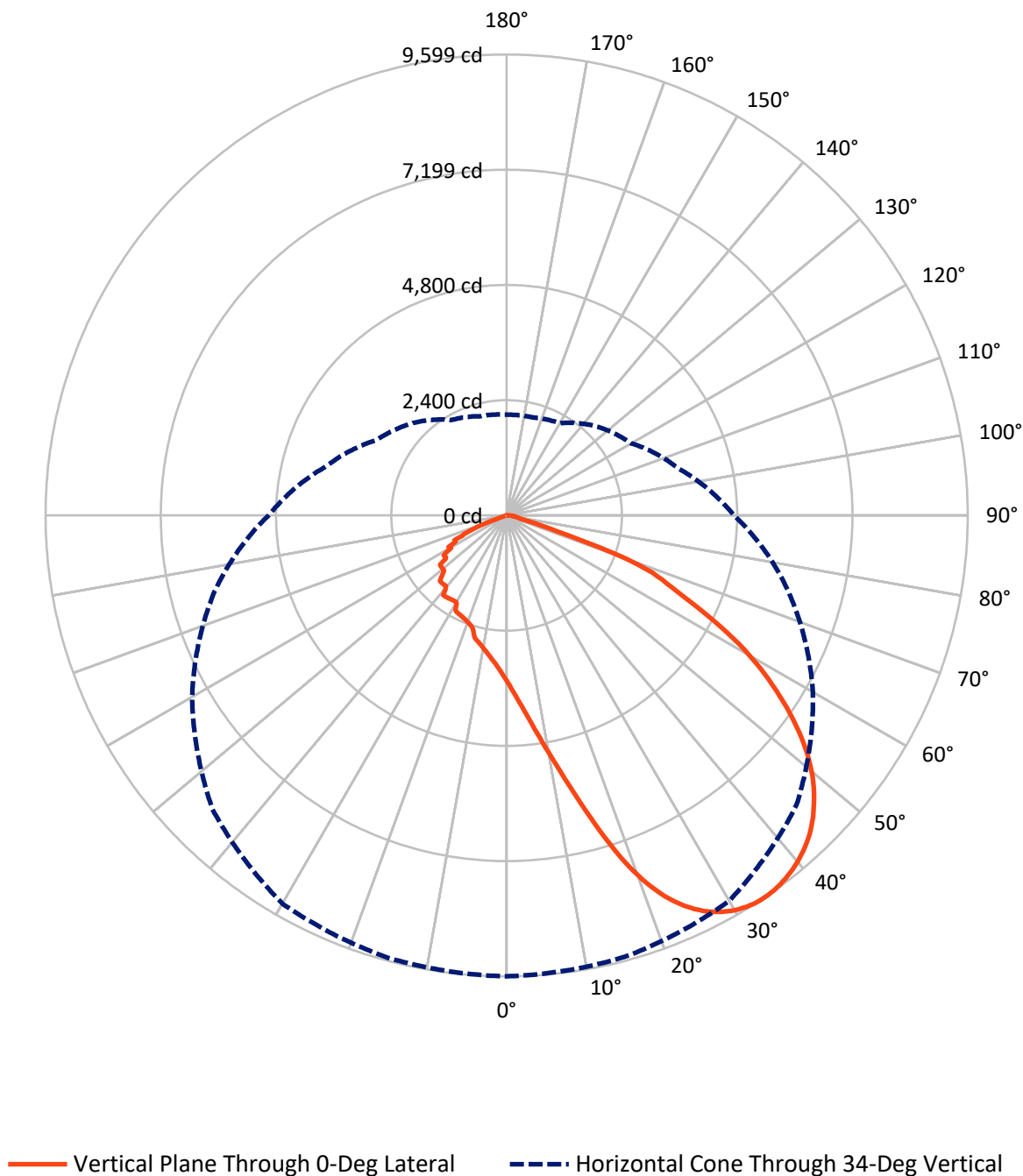


Based on 3 foot mounting height. Maximum calculated value = 752 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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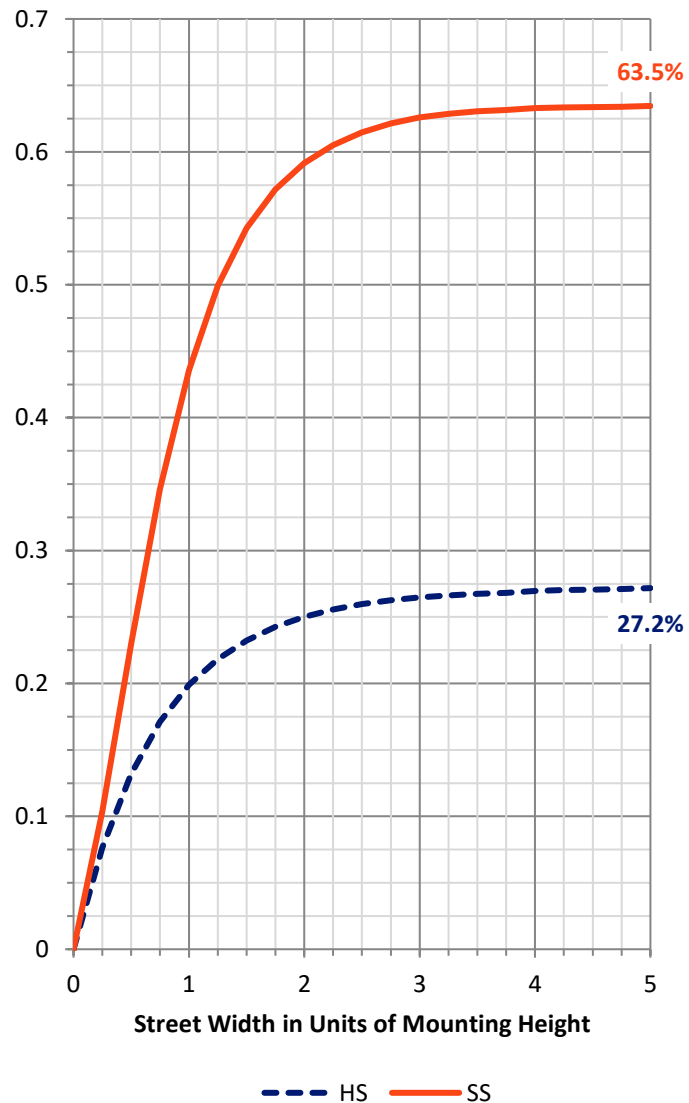
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6672.5	0.0	6672.5
	% Lamp	27.3	0.0	27.3
Street Side	Lumens	15513.8	0.0	15513.8
	% Lamp	63.6	0.0	63.6
Total	Lumens	22186.3	0.0	22186.3
	% Lamp	90.9	0.0	90.9

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	348.5	1.6	1.4
10°-20°	1210.5	5.5	5.0
20°-30°	2348.5	10.6	9.6
30°-40°	3452.7	15.6	14.1
40°-50°	4284.3	19.3	17.6
50°-60°	4564.9	20.6	18.7
60°-70°	3968.6	17.9	16.3
70°-80°	1835.9	8.3	7.5
80°-90°	172.5	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°	22186.3	100.0	90.9
0°-180°	22186.3	100.0	90.9

Coefficient of Utilization



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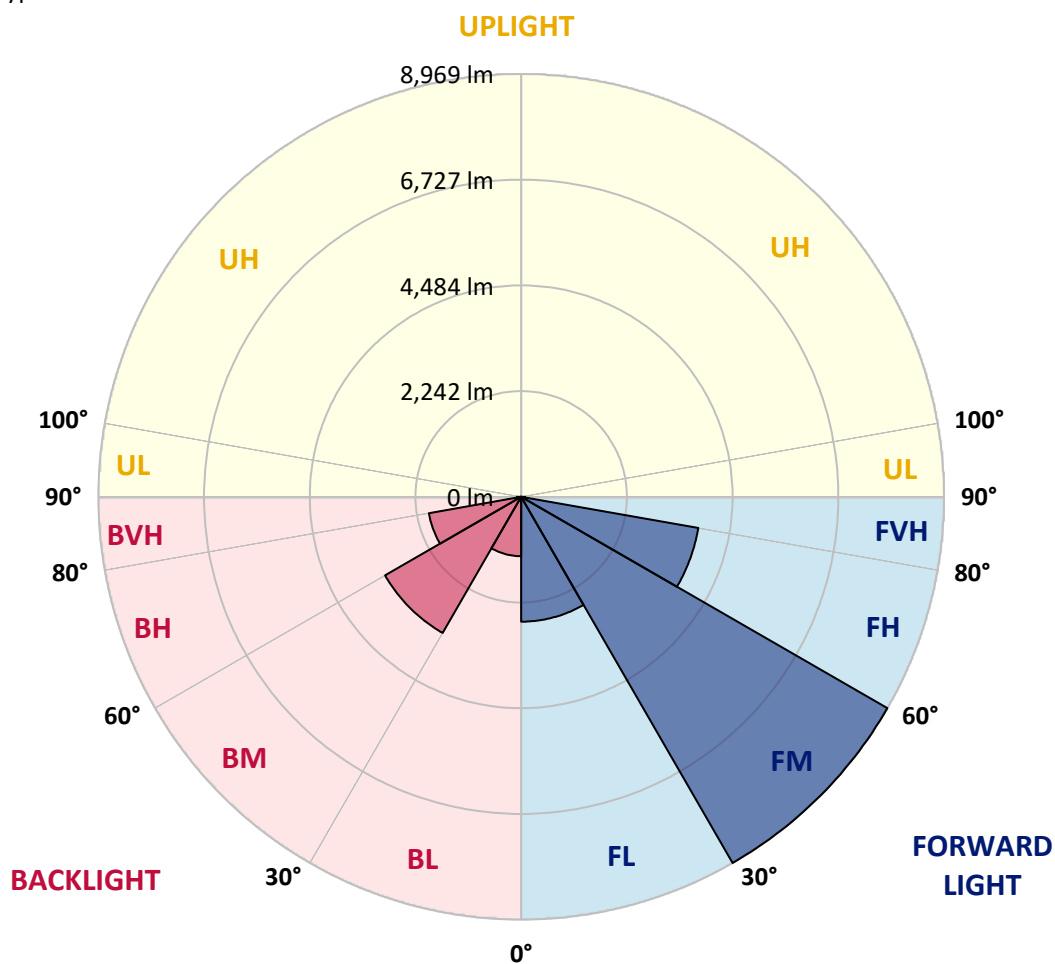
CATALOG NUMBER: XAS180-SFPM (3000K-180W-T3-HSS)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2647.8	10.8			
FM	(30°-60°)	8969.0	36.7			
FH	(60°-80°)	3816.1	15.6			G2/5000
FVH	(80°-90°)	80.9	0.3			G1/100
BL	(0°-30°)	1259.6	5.2	B3/2500		
BM	(30°-60°)	3332.9	13.7	B3/5000		
BH	(60°-80°)	1988.4	8.1	B3/2500		G3/2500
BVH	(80°-90°)	91.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		2220.7	9.1			

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°	3486.6	3486.6	3486.6	3486.6	3486.6	3486.6	3486.6	3486.6	3486.6	3486.6	3486.6
1°	3595.4	3593.3	3584.6	3568.2	3546.3	3520.8	3474.7	3450.8	3429.2	3412.0	3399.5
2°	3713.4	3708.5	3685.2	3649.7	3602.5	3549.4	3476.3	3426.9	3383.0	3348.3	3321.0
3°	3841.7	3828.9	3792.6	3735.8	3664.9	3584.1	3481.9	3408.3	3342.9	3289.6	3250.2
4°	3982.8	3963.9	3912.4	3832.0	3731.2	3621.3	3490.3	3392.4	3306.5	3236.3	3186.4
5°	4136.7	4112.5	4040.5	3935.7	3803.0	3662.5	3501.7	3378.7	3273.7	3189.2	3129.9
6°	4305.8	4270.9	4182.3	4048.6	3883.6	3707.6	3515.4	3368.8	3243.4	3147.3	3078.0
7°	4484.7	4442.2	4333.3	4169.3	3967.9	3757.6	3534.6	3363.6	3218.9	3108.9	3028.9
8°	4680.3	4631.0	4497.7	4298.5	4059.2	3811.4	3557.4	3361.8	3197.8	3073.8	2985.2
9°	4893.3	4834.2	4672.6	4437.9	4156.2	3869.2	3582.4	3361.5	3181.1	3041.8	2943.8
10°	5115.9	5044.7	4860.2	4582.9	4259.3	3932.1	3611.3	3364.9	3165.5	3014.4	2905.0
11°	5357.7	5276.0	5059.5	4739.5	4368.6	3998.8	3642.9	3370.8	3152.9	2989.3	2870.0
12°	5620.1	5524.1	5270.1	4907.5	4482.6	4068.9	3676.7	3378.9	3143.3	2966.5	2838.6
13°	5899.3	5786.6	5498.4	5082.7	4604.4	4143.5	3712.6	3388.3	3135.2	2945.3	2809.6
14°	6202.8	6077.4	5743.3	5268.7	4731.5	4220.3	3748.3	3398.0	3127.9	2926.2	2782.5
15°	6527.6	6381.4	6002.8	5466.6	4864.9	4299.4	3787.7	3409.6	3122.2	2908.5	2755.2
16°	6862.5	6697.3	6271.7	5676.9	5004.3	4381.4	3829.5	3423.5	3117.9	2891.9	2730.6
17°	7192.1	7010.7	6535.8	5893.1	5151.9	4466.8	3872.4	3437.9	3114.8	2876.5	2705.6
18°	7520.7	7318.4	6801.3	6106.0	5307.0	4555.4	3916.1	3450.7	3112.6	2862.4	2667.5
19°	7825.8	7614.8	7062.8	6316.0	5466.7	4647.1	3946.5	3453.8	3106.2	2849.6	2578.2
20°	8105.2	7889.0	7316.9	6525.7	5625.9	4734.2	3984.7	3462.5	3092.0	2836.9	2514.8
21°	8355.8	8139.9	7555.9	6728.0	5787.8	4813.4	4023.3	3481.9	3081.3	2822.8	2497.9
22°	8573.9	8365.0	7780.9	6923.2	5945.8	4907.2	4074.0	3502.2	3083.1	2772.5	2482.6
23°	8766.8	8569.0	7986.2	7111.4	6102.5	4998.0	4127.6	3520.7	3085.1	2708.2	2469.6
24°	8935.3	8748.0	8180.4	7287.6	6240.4	5103.1	4177.6	3531.7	3080.9	2656.8	2459.8
25°	9081.3	8905.1	8355.6	7457.4	6373.0	5212.8	4219.8	3547.0	3076.6	2648.5	2450.2
26°	9204.6	9040.5	8515.3	7613.4	6504.0	5320.3	4264.2	3562.1	3074.0	2638.4	2442.7
27°	9308.2	9158.2	8663.0	7766.5	6630.2	5425.7	4314.0	3585.8	3080.1	2624.9	2434.5
28°	9393.6	9255.5	8791.3	7910.2	6747.8	5519.2	4365.1	3609.6	3089.1	2615.3	2427.0
29°	9464.5	9334.6	8903.7	8042.0	6863.2	5607.6	4425.3	3633.4	3096.8	2615.0	2421.1
30°	9518.2	9400.0	9003.4	8167.0	6980.3	5699.8	4485.5	3658.9	3086.4	2617.2	2415.4
31°	9560.0	9450.0	9089.2	8280.8	7088.8	5792.9	4548.2	3685.1	3040.4	2620.5	2404.3
32°	9585.4	9486.4	9160.0	8374.8	7190.6	5881.9	4610.3	3708.0	3030.7	2623.6	2389.6
33°	9598.2	9508.2	9220.9	8458.3	7283.1	5975.1	4672.9	3714.9	2994.4	2626.6	2296.3
34°	9599.1	9517.3	9268.2	8533.5	7363.9	6066.1	4733.4	3722.3	2998.4	2626.7	2216.1
35°	9588.2	9516.4	9303.7	8605.2	7436.0	6153.0	4777.9	3740.6	3004.3	2624.7	2211.3
36°	9567.3	9505.5	9324.6	8668.1	7503.6	6236.1	4814.7	3761.9	3012.1	2623.6	2213.1
37°	9535.4	9484.5	9334.6	8720.5	7569.5	6315.8	4856.7	3784.3	3025.5	2627.2	2214.6
38°	9495.5	9453.6	9335.5	8760.8	7634.1	6394.8	4908.9	3809.7	3033.9	2628.1	2213.1
39°	9446.4	9416.4	9325.5	8794.2	7691.3	6466.5	4955.8	3837.1	3036.0	2502.7	2211.6
40°	9390.0	9370.0	9302.7	8820.4	7746.3	6526.2	5006.2	3857.1	3049.2	2445.1	2217.2
41°	9322.7	9313.7	9272.7	8840.9	7794.2	6568.6	5054.6	3875.2	3069.1	2453.5	2222.5
42°	9245.5	9250.9	9231.8	8858.5	7844.9	6609.9	5104.1	3891.0	3089.2	2465.2	2228.6
43°	9157.3	9177.3	9180.9	8863.9	7892.7	6652.3	5150.8	3899.9	3110.4	2478.5	2230.9
44°	9057.9	9095.5	9121.9	8857.9	7935.6	6698.6	5189.8	3926.8	3133.2	2492.9	2159.2

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CATALOG NUMBER: XAS180-SFPM (3000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	8945.5	9001.6	9051.4	8839.2	7973.7	6743.2	5220.6	3964.2	3157.1	2505.2	2061.4
46°	8816.8	8895.4	8973.5	8810.2	8009.2	6787.3	5248.6	4002.6	3167.1	2504.9	2064.0
47°	8681.2	8774.0	8885.8	8768.6	8039.8	6829.3	5266.4	4042.3	3165.9	2511.4	2070.0
48°	8538.4	8643.4	8787.6	8716.1	8062.7	6864.0	5279.5	4083.9	3176.7	2526.2	2072.9
49°	8376.4	8493.5	8676.9	8656.2	8075.8	6898.2	5306.9	4119.3	3121.7	2535.5	2070.3
50°	8196.5	8332.5	8550.9	8584.7	8076.4	6930.0	5344.9	4126.9	3072.8	2455.1	2070.6
51°	8002.0	8152.4	8408.2	8498.9	8061.3	6950.2	5382.9	4100.2	3027.5	2356.8	2073.9
52°	7792.5	7956.8	8252.7	8399.9	8040.3	6961.1	5417.3	4124.9	3050.2	2364.4	1980.9
53°	7569.5	7744.3	8079.9	8290.7	8006.7	6965.8	5447.6	4133.0	3070.4	2379.1	1880.5
54°	7329.8	7513.2	7894.6	8165.3	7962.4	6964.8	5474.5	4128.5	3081.3	2399.0	1890.2
55°	7085.4	7275.2	7693.9	8026.7	7903.6	6945.7	5496.4	4153.2	3098.6	2409.9	1903.6
56°	6821.2	7025.3	7476.7	7876.2	7837.4	6912.2	5501.0	4169.2	3126.5	2417.8	1918.9
57°	6558.2	6763.7	7253.5	7709.5	7761.2	6869.4	5495.6	4169.1	3149.0	2414.4	1933.7
58°	6284.7	6495.1	7019.3	7529.1	7670.4	6829.8	5473.7	4183.5	3159.1	2285.0	1941.5
59°	5999.2	6222.4	6773.1	7341.0	7564.2	6788.2	5453.1	4197.1	3180.1	2254.2	1787.8
60°	5694.3	5937.3	6520.6	7135.7	7438.6	6736.8	5433.7	4186.9	3094.1	2285.1	1800.6
61°	5368.4	5636.3	6256.4	6921.9	7295.8	6673.5	5399.3	4150.8	3045.3	2321.9	1805.9
62°	5028.0	5323.2	5989.7	6694.8	7144.3	6592.9	5360.8	4139.7	3065.2	2361.1	1753.6
63°	4671.1	4995.9	5719.1	6457.3	6974.1	6493.7	5307.6	4110.0	3080.2	2391.0	1701.5
64°	4325.7	4673.0	5448.5	6214.8	6784.3	6376.4	5234.1	4062.7	3091.4	2279.5	1690.1
65°	4012.4	4351.1	5167.7	5964.9	6580.2	6237.5	5144.4	4007.9	3076.5	2291.4	1709.1
66°	3737.1	4059.7	4893.6	5711.3	6362.3	6075.8	5026.7	3926.4	2992.3	2320.6	1609.1
67°	3510.8	3794.1	4621.3	5459.4	6129.0	5887.6	4902.6	3840.5	2899.4	2301.8	1585.8
68°	3267.9	3561.1	4356.1	5200.8	5866.2	5677.2	4716.7	3714.4	2922.0	2244.9	1626.1
69°	2911.2	3315.7	4106.9	4948.9	5588.4	5424.7	4435.4	3564.2	2935.4	2260.3	1487.6
70°	2388.0	2991.4	3874.4	4694.2	5303.6	5111.8	4028.3	3361.9	2941.4	2199.8	1480.9
71°	1700.1	2538.6	3641.3	4440.9	4981.0	4740.8	3561.1	3097.8	2881.5	2204.9	1281.7
72°	1082.1	1922.4	3379.1	4178.1	4622.8	4305.0	3160.8	2803.9	2772.4	2192.3	1236.0
73°	832.8	1272.5	3064.7	3907.5	4222.6	3832.1	2780.4	2546.6	2663.5	2159.8	1146.5
74°	591.2	773.6	2640.0	3602.4	3798.0	3351.9	2250.1	2356.5	2545.0	2178.2	1039.1
75°	349.7	570.0	2051.0	3211.9	3335.6	2834.6	1719.7	1993.5	2410.0	2132.9	1000.7
76°	308.5	372.5	1431.6	2729.9	2858.9	2190.5	1189.1	1630.6	2291.0	2074.6	975.4
77°	276.0	319.9	933.9	2133.0	2363.9	1441.4	649.4	1266.7	2192.2	1876.3	920.5
78°	249.4	282.4	730.1	1423.7	1835.1	829.1	338.8	731.0	1905.9	1677.8	830.3
79°	225.9	252.2	535.5	776.4	1276.4	575.2	277.1	535.4	1619.7	1477.5	705.0
80°	204.6	226.1	340.9	535.8	797.9	323.3	215.4	339.9	1328.9	1205.4	603.9
81°	184.9	202.6	288.3	305.6	523.8	272.9	154.5	147.6	737.8	902.0	545.8
82°	166.6	181.0	250.0	261.3	254.8	233.2	130.4	114.6	540.8	718.6	543.6
83°	149.0	160.6	216.4	228.1	197.8	189.2	108.6	88.5	343.7	569.2	446.5
84°	132.1	141.6	183.2	198.2	160.7	143.5	88.2	69.3	147.4	406.4	332.2
85°	115.9	123.7	148.0	169.7	128.0	109.5	68.2	53.5	129.4	300.8	234.7
86°	99.7	106.8	120.7	142.1	99.8	84.9	50.0	40.5	103.6	195.1	137.7
87°	85.9	90.9	97.7	112.0	78.0	64.0	38.4	31.4	76.8	90.6	84.5
88°	72.1	77.4	80.0	86.0	56.4	43.1	26.8	22.3	58.3	61.7	57.6
89°	58.3	63.9	62.5	60.2	34.8	25.2	15.1	13.2	39.7	32.7	30.7



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CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444979

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444979
CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444979

CATALOG NUMBER: XAS180-SFPM (3000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	3486.6	3486.6	3486.6	3486.6	3486.6	3486.6	3486.6	3486.6	3486.6	3486.6	3486.6
1°	3393.8	3393.9	3398.9	3411.5	3428.1	3449.8	3473.1	3480.3	3508.1	3534.1	3556.8
2°	3307.8	3305.4	3315.5	3337.0	3368.6	3408.0	3455.1	3488.2	3543.1	3596.2	3643.2
3°	3229.7	3224.4	3237.4	3267.7	3313.8	3372.0	3440.6	3500.4	3581.9	3661.3	3732.7
4°	3159.0	3153.4	3167.9	3205.1	3263.5	3340.0	3430.3	3514.9	3624.4	3731.9	3832.1
5°	3096.5	3088.6	3104.9	3149.4	3218.3	3312.0	3423.3	3532.9	3671.4	3810.3	3939.0
6°	3037.2	3027.5	3047.2	3098.5	3179.3	3286.5	3418.8	3554.1	3722.7	3895.8	4055.6
7°	2983.1	2971.3	2993.0	3050.8	3142.7	3265.9	3418.2	3580.4	3777.6	3985.5	4180.3
8°	2933.1	2918.9	2943.1	3008.0	3110.0	3247.5	3420.3	3606.7	3837.0	4081.2	4314.3
9°	2885.5	2869.2	2896.3	2967.9	3081.0	3232.3	3424.2	3636.9	3901.7	4184.0	4458.4
10°	2841.3	2823.6	2853.4	2931.4	3053.4	3219.1	3430.1	3670.5	3968.6	4292.4	4608.9
11°	2800.5	2780.6	2813.5	2898.4	3030.4	3208.4	3439.0	3708.5	4042.3	4408.2	4771.1
12°	2763.1	2742.0	2775.2	2867.1	3009.5	3200.1	3451.0	3747.8	4116.8	4531.1	4942.9
13°	2729.0	2705.0	2741.2	2838.5	2990.9	3194.6	3465.1	3790.1	4196.7	4659.8	5127.1
14°	2696.2	2669.4	2708.6	2812.0	2974.9	3191.0	3480.7	3833.2	4279.2	4793.7	5322.1
15°	2664.0	2634.6	2676.6	2786.6	2960.4	3190.1	3497.0	3879.4	4365.7	4939.7	5531.5
16°	2626.9	2556.8	2641.0	2762.4	2946.2	3190.4	3514.0	3927.6	4455.6	5089.5	5751.7
17°	2526.0	2469.6	2545.0	2738.6	2933.3	3191.1	3534.5	3976.0	4549.6	5250.1	5973.8
18°	2454.9	2424.0	2472.1	2701.4	2922.2	3193.1	3554.9	4026.5	4646.8	5416.0	6198.8
19°	2428.9	2397.6	2444.6	2619.4	2911.0	3193.4	3563.1	4069.9	4747.1	5584.6	6425.7
20°	2406.6	2373.7	2422.0	2558.0	2900.1	3183.3	3577.2	4109.9	4852.2	5755.5	6645.8
21°	2387.0	2353.9	2402.0	2535.1	2887.4	3176.6	3597.9	4155.2	4947.7	5928.7	6857.1
22°	2371.0	2335.8	2386.2	2521.4	2837.8	3181.4	3624.5	4210.7	5044.6	6102.1	7057.0
23°	2357.3	2320.6	2373.5	2509.5	2778.5	3188.1	3650.9	4270.6	5155.1	6268.1	7242.4
24°	2344.5	2306.6	2361.6	2500.1	2735.1	3195.0	3674.0	4331.9	5265.2	6431.8	7419.5
25°	2333.1	2293.1	2350.3	2492.4	2723.3	3193.1	3690.3	4390.0	5384.4	6573.5	7584.8
26°	2321.6	2282.1	2340.7	2486.3	2718.4	3192.9	3711.4	4439.2	5504.1	6703.3	7742.3
27°	2312.1	2273.0	2331.9	2480.9	2707.2	3194.7	3731.3	4494.3	5625.0	6832.1	7890.4
28°	2304.2	2265.1	2324.7	2475.7	2699.0	3205.6	3760.4	4551.7	5738.2	6955.3	8031.5
29°	2296.2	2231.4	2317.0	2471.5	2698.2	3216.1	3790.3	4615.8	5837.8	7065.6	8160.1
30°	2233.9	2110.0	2264.4	2468.2	2702.5	3207.9	3820.5	4682.7	5938.2	7178.1	8282.2
31°	2128.5	2086.6	2157.3	2458.1	2707.7	3182.2	3850.1	4749.9	6038.3	7285.9	8396.0
32°	2111.2	2087.3	2138.2	2446.6	2714.6	3157.3	3878.7	4818.2	6132.2	7387.8	8499.0
33°	2109.7	2090.1	2137.2	2376.8	2721.3	3133.1	3891.4	4885.6	6224.6	7479.1	8585.0
34°	2110.6	2095.3	2138.2	2292.9	2727.9	3134.1	3904.2	4954.0	6317.7	7560.4	8658.6
35°	2112.4	2102.2	2141.0	2281.4	2729.1	3141.5	3925.6	5011.9	6406.5	7630.5	8723.3
36°	2115.7	2108.3	2145.2	2284.5	2729.6	3150.8	3949.8	5056.7	6489.6	7695.5	8784.6
37°	2116.9	2113.4	2147.9	2288.9	2730.3	3162.8	3976.6	5104.6	6568.3	7759.4	8837.9
38°	2117.3	2118.2	2149.7	2288.3	2730.7	3176.5	4006.6	5158.1	6643.5	7821.7	8882.1
39°	2116.6	2118.4	2151.2	2287.4	2628.2	3182.3	4039.0	5209.8	6714.4	7876.8	8913.9
40°	2112.3	2002.1	2148.7	2292.1	2568.0	3192.3	4069.6	5264.4	6776.3	7927.6	8940.8
41°	1992.9	1942.3	2044.0	2299.5	2569.2	3214.5	4090.6	5316.6	6821.2	7975.6	8957.1
42°	1927.0	1943.2	1966.7	2307.1	2580.6	3237.8	4106.9	5366.9	6858.2	8024.1	8966.4
43°	1925.8	1946.4	1965.9	2312.6	2593.8	3262.4	4117.3	5419.0	6896.5	8065.4	8967.0
44°	1927.5	1948.9	1969.3	2263.7	2609.0	3288.0	4148.8	5468.3	6932.7	8103.3	8958.9

REPORT NUMBER: P1444979

CATALOG NUMBER: XAS180-SFPM (3000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1929.8	1948.9	1973.2	2153.8	2623.6	3312.4	4188.5	5505.2	6971.0	8133.9	8936.0
46°	1931.9	1946.0	1976.3	2148.3	2627.2	3325.4	4229.6	5532.8	7009.2	8160.8	8898.1
47°	1933.2	1876.0	1978.6	2155.2	2630.9	3327.2	4271.1	5550.1	7041.5	8181.6	8845.9
48°	1869.1	1806.0	1978.4	2159.0	2648.3	3340.2	4312.0	5559.6	7070.8	8193.2	8786.2
49°	1805.1	1737.2	1862.6	2155.4	2658.5	3330.9	4351.7	5584.2	7091.8	8196.5	8715.0
50°	1741.4	1733.3	1779.1	2155.1	2604.4	3256.7	4376.4	5615.6	7107.4	8182.9	8636.9
51°	1747.9	1731.4	1784.8	2159.5	2486.1	3212.3	4356.9	5643.4	7115.8	8151.6	8546.8
52°	1757.3	1731.7	1793.6	2089.1	2487.4	3227.8	4344.3	5668.7	7114.3	8111.9	8443.7
53°	1767.3	1731.1	1803.1	1971.0	2505.9	3250.9	4360.2	5688.3	7101.0	8061.0	8328.0
54°	1775.3	1723.2	1760.6	1981.1	2529.5	3262.4	4353.9	5701.2	7079.1	8000.1	8195.4
55°	1778.9	1560.1	1718.1	1996.3	2543.3	3270.0	4350.8	5709.8	7038.8	7929.6	8054.9
56°	1624.8	1534.7	1675.7	2014.3	2554.9	3299.9	4356.2	5700.5	6978.5	7852.0	7899.4
57°	1596.3	1541.6	1641.0	2032.7	2553.1	3322.0	4347.0	5673.2	6912.9	7766.2	7735.4
58°	1603.4	1549.5	1648.5	2045.9	2442.9	3329.0	4347.3	5632.0	6845.5	7662.0	7557.0
59°	1613.8	1481.2	1657.8	1896.5	2406.0	3343.0	4349.4	5591.9	6780.5	7548.3	7367.1
60°	1496.7	1345.9	1552.9	1898.6	2439.8	3271.7	4323.9	5547.8	6706.1	7416.8	7160.1
61°	1426.8	1360.8	1478.0	1909.2	2476.9	3191.4	4270.0	5492.3	6615.6	7269.4	6939.0
62°	1444.0	1374.8	1497.1	1929.5	2515.3	3193.5	4244.7	5427.1	6512.8	7107.5	6714.4
63°	1461.9	1203.7	1512.9	1812.0	2545.9	3195.0	4211.4	5351.4	6395.0	6924.0	6477.0
64°	1272.4	1188.2	1318.0	1796.8	2435.5	3195.5	4149.5	5249.8	6259.7	6731.5	6236.3
65°	1284.5	1202.7	1323.8	1762.8	2437.9	3174.7	4085.5	5122.6	6102.9	6520.7	5983.3
66°	1293.4	1004.6	1340.7	1728.8	2453.3	3097.2	3991.7	4980.3	5916.3	6300.5	5722.2
67°	1071.0	972.1	1111.6	1696.7	2436.5	2978.2	3885.4	4809.3	5714.5	6058.1	5463.4
68°	1089.2	750.4	1124.5	1733.6	2373.5	2985.6	3729.2	4553.6	5472.6	5792.6	5200.5
69°	870.9	676.9	904.8	1594.5	2369.7	2984.9	3526.8	4188.2	5184.4	5507.0	4947.9
70°	831.8	463.2	854.0	1578.7	2312.7	2978.0	3263.9	3706.1	4826.7	5190.4	4678.8
71°	550.8	249.6	552.6	1375.6	2287.3	2907.1	2960.0	3249.9	4398.9	4837.4	4401.6
72°	341.7	38.1	323.3	1329.4	2271.1	2776.6	2661.7	2845.1	3915.5	4445.4	4119.7
73°	282.1	0.5	257.2	1206.2	2223.1	2642.5	2387.9	2419.3	3417.1	4014.9	3814.5
74°	254.7	0.3	237.2	1072.9	2218.6	2509.2	2049.8	1937.1	2924.7	3551.4	3479.0
75°	209.1	0.3	203.0	1009.1	2105.4	2366.0	1711.7	1339.4	2395.3	3046.3	3063.3
76°	163.5	0.4	168.9	973.9	1931.6	2205.3	1372.1	778.5	1745.5	2543.9	2568.5
77°	118.5	0.4	134.8	917.3	1757.8	1933.0	845.6	516.1	1071.3	2065.3	1966.3
78°	88.2	0.4	108.7	826.2	1583.7	1660.7	441.0	257.1	810.7	1562.3	1294.7
79°	87.0	0.4	108.7	699.3	1370.5	1382.2	296.1	201.0	558.5	1042.7	958.4
80°	118.6	0.5	132.8	610.1	1131.1	837.3	154.5	169.9	306.3	776.0	630.6
81°	146.2	0.5	139.5	568.9	855.6	604.5	122.3	144.8	262.2	512.0	302.9
82°	131.7	0.6	85.8	535.3	660.7	371.7	99.4	121.5	224.1	248.1	261.1
83°	81.8	0.7	60.5	445.8	470.6	142.0	80.2	100.3	182.8	194.1	229.2
84°	44.6	0.8	35.2	320.0	339.4	120.1	63.8	81.6	142.3	158.1	199.0
85°	33.2	0.9	10.0	194.2	208.1	95.4	50.0	62.9	108.5	125.2	170.0
86°	21.8	1.0	8.9	71.5	80.0	70.3	38.0	44.2	86.1	96.9	141.7
87°	10.7	1.1	8.9	49.7	41.1	50.3	28.8	29.2	63.9	75.8	110.6
88°	7.3	1.2	7.7	27.8	28.4	34.9	19.6	16.8	41.6	54.8	85.0
89°	5.2	1.4	4.3	6.3	15.8	19.5	10.4	11.7	24.2	33.9	59.5

REPORT NUMBER: P1444979

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444979

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444979
CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444979

CATALOG NUMBER: XAS180-SFPM (3000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	3486.6	3486.6	3486.6
1°	3575.7	3589.2	3595.4
2°	3678.9	3704.2	3713.4
3°	3790.2	3827.7	3841.7
4°	3913.4	3965.9	3982.8
5°	4043.9	4113.8	4136.7
6°	4188.8	4276.7	4305.8
7°	4343.1	4447.6	4484.7
8°	4507.5	4635.1	4680.3
9°	4685.6	4839.0	4893.3
10°	4874.5	5054.6	5115.9
11°	5082.1	5289.6	5357.7
12°	5300.1	5540.6	5620.1
13°	5537.0	5812.7	5899.3
14°	5785.4	6099.8	6202.8
15°	6052.1	6404.8	6527.6
16°	6319.9	6715.1	6862.5
17°	6595.1	7035.0	7192.1
18°	6870.5	7350.4	7520.7
19°	7135.5	7647.5	7825.8
20°	7389.7	7926.8	8105.2
21°	7629.3	8182.4	8355.8
22°	7851.0	8407.9	8573.9
23°	8062.3	8613.6	8766.8
24°	8259.4	8789.8	8935.3
25°	8437.9	8944.3	9081.3
26°	8599.6	9074.3	9204.6
27°	8745.6	9187.3	9308.2
28°	8874.8	9281.8	9393.6
29°	8986.9	9359.1	9464.5
30°	9084.9	9421.8	9518.2
31°	9168.2	9470.9	9560.0
32°	9236.4	9507.3	9585.4
33°	9290.9	9528.2	9598.2
34°	9335.5	9537.3	9599.1
35°	9367.3	9534.5	9588.2
36°	9386.4	9520.9	9567.3
37°	9393.6	9498.2	9535.4
38°	9390.9	9466.4	9495.5
39°	9376.4	9426.4	9446.4
40°	9351.8	9379.1	9390.0
41°	9319.1	9324.6	9322.7
42°	9276.4	9261.8	9245.5
43°	9222.8	9190.9	9157.3
44°	9159.1	9108.2	9057.9

REPORT NUMBER: P1444979

CATALOG NUMBER: XAS180-SFPM (3000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	9089.5	9016.8	8945.5
46°	9010.9	8914.1	8816.8
47°	8921.4	8794.7	8681.2
48°	8824.4	8669.8	8538.4
49°	8713.3	8524.4	8376.4
50°	8589.8	8368.3	8196.5
51°	8449.0	8193.5	8002.0
52°	8292.5	8000.5	7792.5
53°	8118.4	7791.7	7569.5
54°	7932.5	7567.0	7329.8
55°	7735.9	7331.0	7085.4
56°	7519.8	7076.0	6821.2
57°	7296.3	6807.1	6558.2
58°	7061.1	6539.9	6284.7
59°	6815.1	6262.9	5999.2
60°	6557.6	5977.9	5694.3
61°	6294.3	5674.5	5368.4
62°	6026.7	5366.6	5028.0
63°	5760.4	5045.2	4671.1
64°	5497.2	4725.5	4325.7
65°	5229.0	4407.2	4012.4
66°	4958.9	4117.9	3737.1
67°	4689.6	3853.2	3510.8
68°	4423.8	3623.7	3267.9
69°	4171.3	3377.4	2911.2
70°	3934.2	3069.9	2388.0
71°	3689.6	2646.6	1700.1
72°	3418.5	2051.1	1082.1
73°	3093.6	1390.5	832.8
74°	2652.6	849.0	591.2
75°	2078.6	618.7	349.7
76°	1479.6	389.7	308.5
77°	991.5	331.1	276.0
78°	774.1	291.4	249.4
79°	562.9	259.2	225.9
80°	351.7	231.7	204.6
81°	293.6	207.3	184.9
82°	252.9	185.4	166.6
83°	217.8	164.5	149.0
84°	184.1	145.4	132.1
85°	149.0	126.5	115.9
86°	121.3	109.2	99.7
87°	97.8	92.3	85.9
88°	80.1	78.3	72.1
89°	62.6	64.4	58.3

REPORT NUMBER: P1444979

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444979

CATALOG NUMBER: XAS180-SFPM (3000K-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: P1444979

CATALOG NUMBER: XAS180-SFPM (3000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)