

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: P1445003

Luminaire Tested: XAS180-SFPM (4000K-180W-T3-HSS)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445003
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 (4000K-180W-T3-HSS)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 100% (180W)
OPTICS - TYPE 3 WITH HOUSE SIDE SHIELD
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 24407 (1 lamp)
Luminaire Lumens: 24041.1 lumens
Efficiency: 98.5%
Efficacy: 138.0 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): 174.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

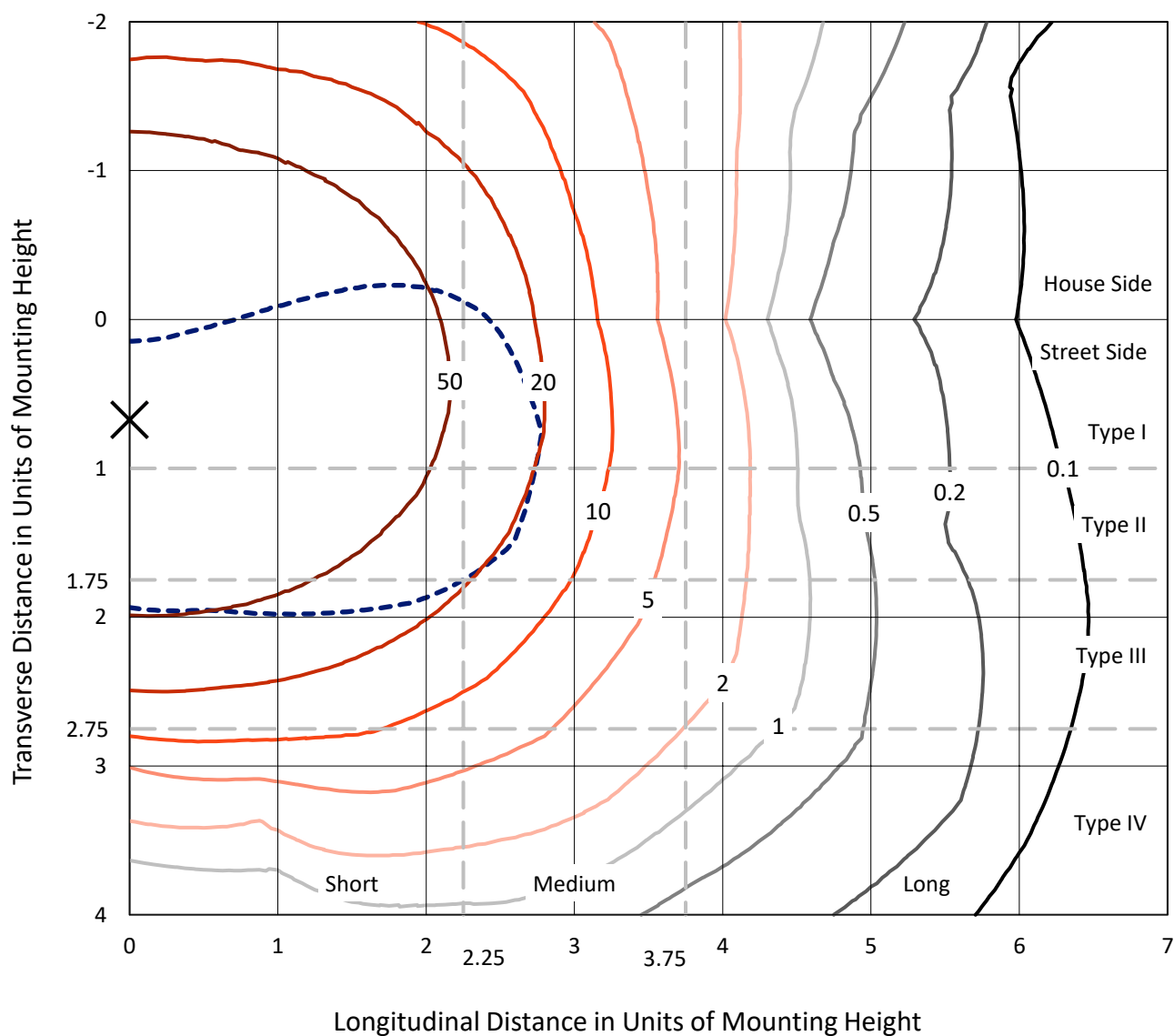
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

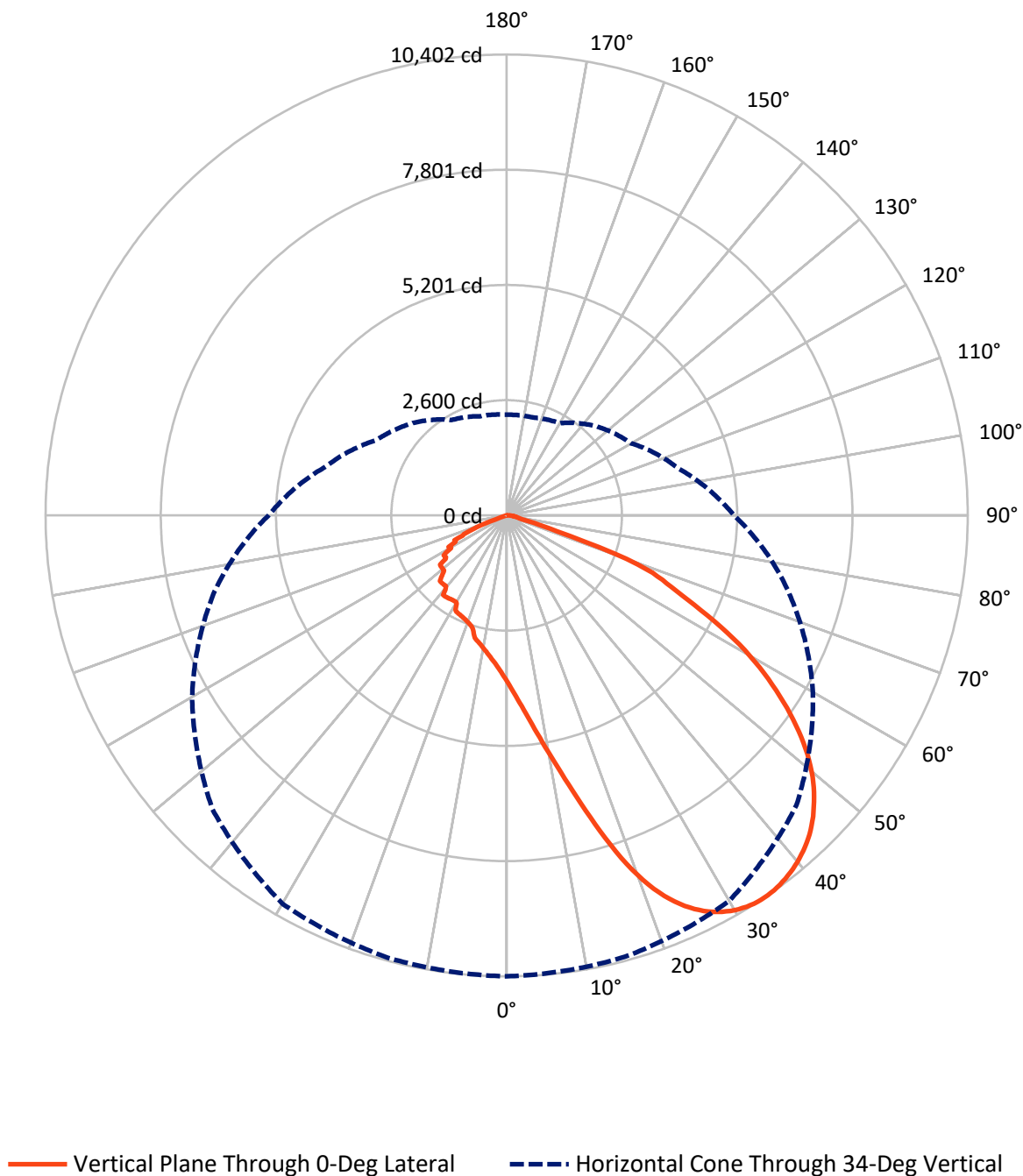


Based on 3 foot mounting height. Maximum calculated value = 814.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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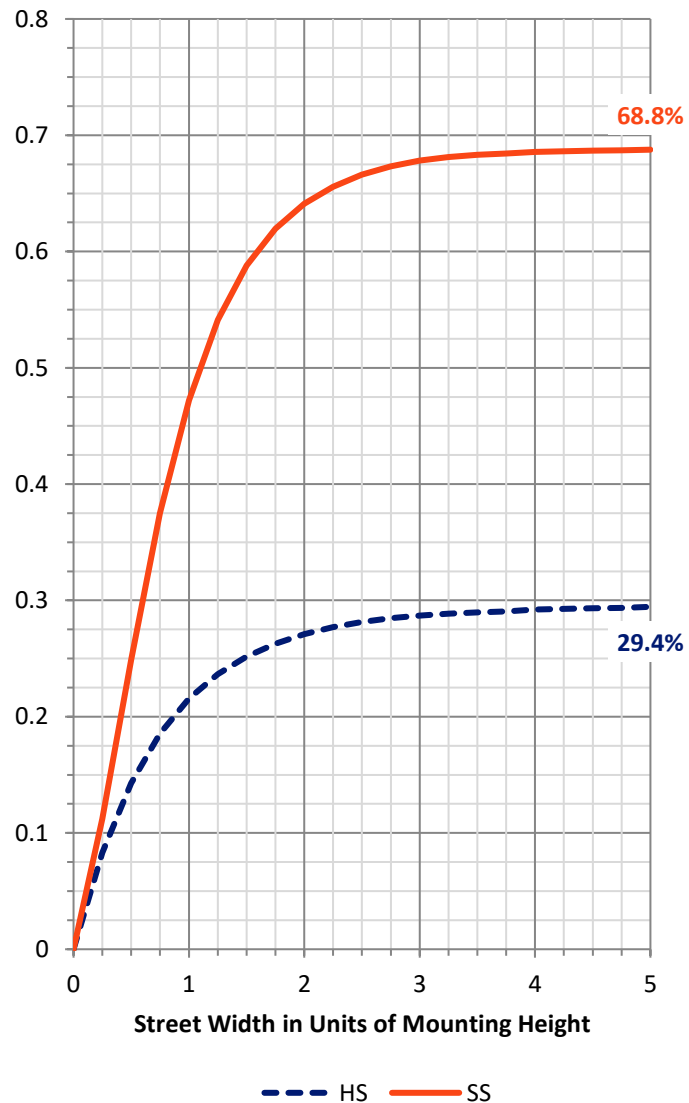
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7230.3	0.0	7230.3
	% Lamp	29.6	0.0	29.6
Street Side	Lumens	16810.8	0.0	16810.8
	% Lamp	68.9	0.0	68.9
Total	Lumens	24041.1	0.0	24041.1
	% Lamp	98.5	0.0	98.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	377.6	1.6	1.5
10°-20°	1311.7	5.5	5.4
20°-30°	2544.9	10.6	10.4
30°-40°	3741.4	15.6	15.3
40°-50°	4642.5	19.3	19.0
50°-60°	4946.6	20.6	20.3
60°-70°	4300.3	17.9	17.6
70°-80°	1989.4	8.3	8.2
80°-90°	186.9	0.8	0.8
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°	24041.1	100.0	98.5
0°-180°	24041.1	100.0	98.5

Coefficient of Utilization



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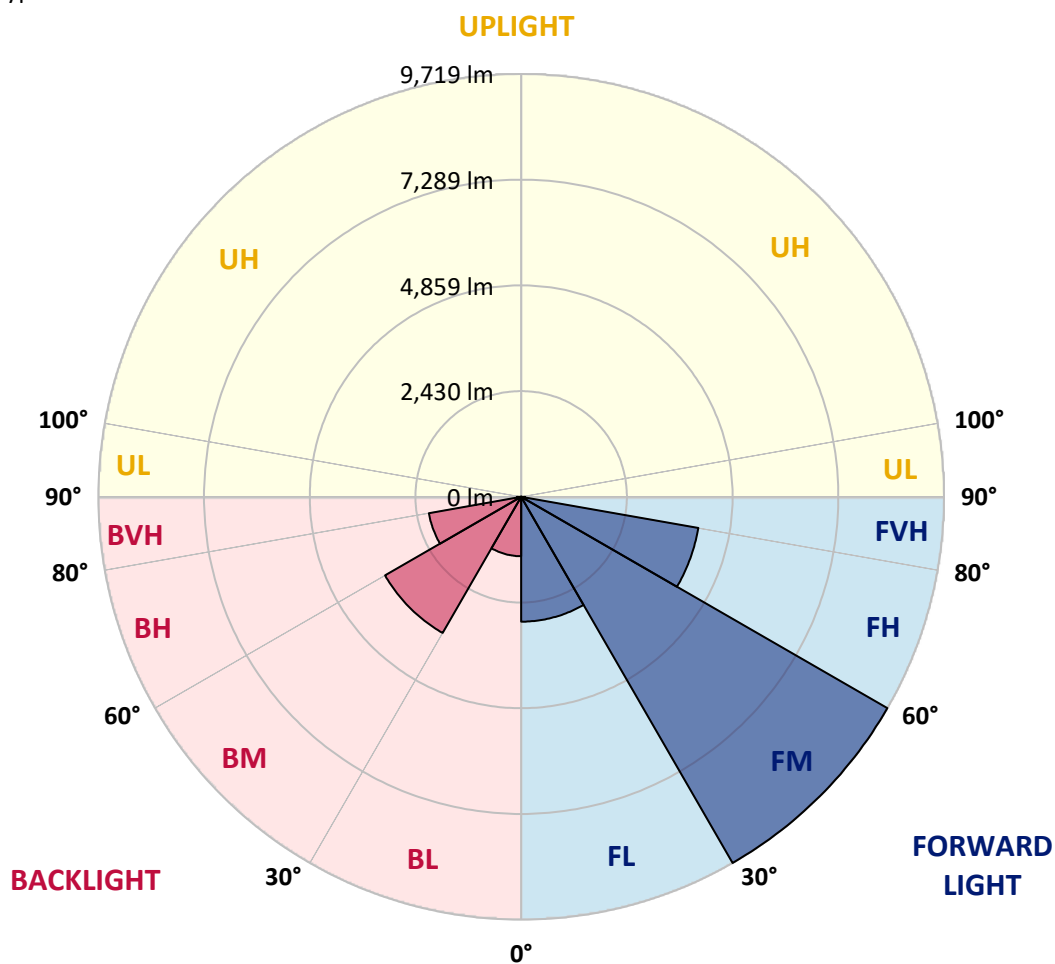
CATALOG NUMBER: XAS180-SFPM (4000K-180W-T3-HSS)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2869.2	11.8			
FM	(30°-60°)	9718.8	39.8			
FH	(60°-80°)	4135.1	16.9			G2/5000
FVH	(80°-90°)	87.7	0.4			G1/100
BL	(0°-30°)	1364.9	5.6	B3/2500		
BM	(30°-60°)	3611.6	14.8	B3/5000		
BH	(60°-80°)	2154.6	8.8	B3/2500		G3/2500
BVH	(80°-90°)	99.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		365.9	1.5			

BUG Rating: B3-U0-G3

Type III Short



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CATALOG NUMBER: XAS180-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	3778.1	3778.1	3778.1	3778.1	3778.1	3778.1	3778.1	3778.1	3778.1	3778.1	3778.1
1°	3896.0	3893.7	3884.2	3866.5	3842.8	3815.2	3765.2	3739.3	3715.9	3697.3	3683.7
2°	4023.8	4018.5	3993.3	3954.8	3903.7	3846.1	3766.9	3713.4	3665.9	3628.2	3598.7
3°	4162.9	4149.0	4109.7	4048.2	3971.3	3883.8	3773.0	3693.3	3622.3	3564.6	3522.0
4°	4315.8	4295.3	4239.4	4152.4	4043.1	3924.0	3782.1	3676.0	3582.9	3506.9	3452.8
5°	4482.5	4456.3	4378.3	4264.8	4120.9	3968.7	3794.4	3661.1	3547.4	3455.9	3391.6
6°	4665.7	4627.9	4532.0	4387.1	4208.3	4017.5	3809.3	3650.4	3514.6	3410.5	3335.3
7°	4859.6	4813.6	4695.6	4517.9	4299.6	4071.8	3830.1	3644.8	3488.0	3368.8	3282.1
8°	5071.6	5018.2	4873.7	4657.9	4398.5	4130.0	3854.8	3642.8	3465.1	3330.8	3234.7
9°	5302.4	5238.3	5063.3	4809.0	4503.7	4192.7	3881.9	3642.5	3447.1	3296.1	3189.9
10°	5543.6	5466.5	5266.5	4966.1	4615.4	4260.8	3913.2	3646.2	3430.2	3266.5	3147.9
11°	5805.6	5717.1	5482.5	5135.7	4733.8	4333.1	3947.5	3652.6	3416.5	3239.3	3109.9
12°	6090.0	5985.9	5710.7	5317.8	4857.3	4409.1	3984.1	3661.3	3406.1	3214.5	3076.0
13°	6392.5	6270.4	5958.1	5507.6	4989.3	4489.9	4023.0	3671.6	3397.3	3191.5	3044.5
14°	6721.3	6585.5	6223.4	5709.2	5127.0	4573.2	4061.6	3682.1	3389.4	3170.8	3015.1
15°	7073.3	6914.9	6504.6	5923.6	5271.6	4658.9	4104.4	3694.6	3383.2	3151.7	2985.5
16°	7436.3	7257.2	6796.0	6151.5	5422.7	4747.7	4149.6	3709.7	3378.6	3133.7	2958.8
17°	7793.4	7596.8	7082.2	6385.8	5582.6	4840.2	4196.2	3725.4	3375.2	3117.0	2931.9
18°	8149.5	7930.2	7369.9	6616.4	5750.7	4936.2	4243.5	3739.2	3372.8	3101.7	2890.5
19°	8480.1	8251.4	7653.3	6844.1	5923.7	5035.6	4276.5	3742.5	3365.9	3087.9	2793.8
20°	8782.9	8548.5	7928.7	7071.3	6096.3	5130.0	4317.8	3752.0	3350.5	3074.1	2725.1
21°	9054.4	8820.5	8187.6	7290.5	6271.7	5215.9	4359.7	3773.0	3338.9	3058.8	2706.8
22°	9290.7	9064.4	8431.4	7502.0	6442.9	5317.4	4414.6	3795.0	3340.8	3004.2	2690.1
23°	9499.7	9285.4	8653.9	7706.0	6612.7	5415.8	4472.7	3815.0	3343.0	2934.6	2676.0
24°	9682.4	9479.3	8864.3	7896.8	6762.1	5529.7	4526.9	3826.9	3338.5	2879.0	2665.4
25°	9840.5	9649.6	9054.1	8080.8	6905.8	5648.6	4572.6	3843.6	3333.8	2869.9	2655.1
26°	9974.1	9796.3	9227.2	8249.9	7047.8	5765.1	4620.7	3859.9	3331.0	2859.0	2646.9
27°	10086.4	9923.9	9387.2	8415.8	7184.5	5879.3	4674.6	3885.6	3337.6	2844.4	2638.0
28°	10179.0	10029.3	9526.3	8571.6	7312.0	5980.6	4730.1	3911.3	3347.3	2833.9	2630.0
29°	10255.8	10115.0	9648.1	8714.3	7436.9	6076.4	4795.3	3937.1	3355.7	2833.6	2623.5
30°	10313.9	10185.9	9756.1	8849.8	7563.9	6176.3	4860.5	3964.8	3344.5	2836.0	2617.3
31°	10359.2	10240.1	9849.1	8973.1	7681.4	6277.2	4928.4	3993.2	3294.6	2839.6	2605.3
32°	10386.8	10279.5	9925.8	9075.0	7791.7	6373.6	4995.7	4018.0	3284.1	2842.9	2589.4
33°	10400.6	10303.1	9991.8	9165.4	7892.0	6474.6	5063.6	4025.5	3244.8	2846.2	2488.3
34°	10401.6	10313.0	10043.1	9247.0	7979.6	6573.3	5129.1	4033.5	3249.1	2846.4	2401.3
35°	10389.8	10312.0	10081.5	9324.6	8057.7	6667.4	5177.4	4053.4	3255.5	2844.1	2396.2
36°	10367.1	10300.1	10104.1	9392.8	8130.9	6757.5	5217.2	4076.4	3263.9	2842.9	2398.1
37°	10332.6	10277.5	10115.0	9449.6	8202.4	6843.8	5262.8	4100.7	3278.5	2846.8	2399.8
38°	10289.3	10244.0	10116.0	9493.2	8272.3	6929.4	5319.3	4128.2	3287.5	2847.8	2398.1
39°	10236.1	10203.6	10105.1	9529.5	8334.3	7007.1	5370.1	4157.9	3289.8	2711.9	2396.5
40°	10175.0	10153.4	10080.5	9557.8	8394.0	7071.8	5424.7	4179.6	3304.1	2649.6	2402.5
41°	10102.2	10092.3	10048.0	9580.0	8445.8	7117.8	5477.2	4199.2	3325.7	2658.6	2408.3
42°	10018.4	10024.3	10003.7	9599.1	8500.7	7162.5	5530.9	4216.3	3347.4	2671.3	2414.9
43°	9922.9	9944.6	9948.5	9604.9	8552.6	7208.4	5581.4	4225.9	3370.5	2685.7	2417.4
44°	9815.2	9855.9	9884.5	9598.4	8599.0	7258.7	5623.7	4255.1	3395.2	2701.3	2339.7

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CATALOG NUMBER: XAS180-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	9693.4	9754.2	9808.1	9578.2	8640.3	7306.9	5657.1	4295.6	3421.0	2714.7	2233.8
46°	9553.9	9639.1	9723.7	9546.8	8678.8	7354.8	5687.4	4337.3	3431.8	2714.4	2236.5
47°	9406.9	9507.5	9628.7	9501.7	8711.9	7400.2	5706.7	4380.3	3430.6	2721.4	2243.0
48°	9252.2	9366.1	9522.3	9444.8	8736.8	7437.8	5720.9	4425.3	3442.3	2737.4	2246.2
49°	9076.7	9203.6	9402.3	9379.9	8750.9	7475.0	5750.6	4463.7	3382.7	2747.5	2243.3
50°	8881.7	9029.1	9265.8	9302.4	8751.6	7509.3	5791.8	4471.9	3329.7	2660.4	2243.7
51°	8671.0	8834.0	9111.2	9209.5	8735.3	7531.3	5833.0	4442.9	3280.6	2553.8	2247.3
52°	8444.0	8622.0	8942.6	9102.2	8712.5	7543.0	5870.2	4469.7	3305.2	2562.1	2146.5
53°	8202.4	8391.7	8755.4	8983.8	8676.1	7548.2	5903.0	4478.5	3327.1	2578.0	2037.8
54°	7942.6	8141.3	8554.6	8848.0	8628.1	7547.1	5932.2	4473.7	3339.0	2599.5	2048.2
55°	7677.8	7883.4	8337.1	8697.7	8564.4	7526.4	5955.9	4500.5	3357.7	2611.3	2062.8
56°	7391.4	7612.7	8101.8	8534.7	8492.7	7490.1	5960.9	4517.8	3387.9	2619.9	2079.3
57°	7106.5	7329.2	7859.9	8354.1	8410.0	7443.7	5955.0	4517.7	3412.2	2616.3	2095.4
58°	6810.1	7038.1	7606.2	8158.6	8311.7	7400.8	5931.4	4533.3	3423.2	2476.0	2103.8
59°	6500.8	6742.6	7339.3	7954.8	8196.6	7355.7	5909.0	4547.9	3446.0	2442.7	1937.3
60°	6170.3	6433.7	7065.8	7732.2	8060.5	7300.0	5887.9	4536.9	3352.7	2476.2	1951.2
61°	5817.2	6107.5	6779.5	7500.6	7905.7	7231.5	5850.7	4497.8	3299.8	2516.0	1956.9
62°	5448.3	5768.3	6490.5	7254.5	7741.6	7144.1	5809.0	4485.8	3321.4	2558.5	1900.2
63°	5061.6	5413.6	6197.2	6997.1	7557.2	7036.5	5751.3	4453.6	3337.7	2590.8	1843.7
64°	4687.3	5063.7	5904.0	6734.3	7351.4	6909.5	5671.7	4402.4	3349.9	2470.1	1831.4
65°	4347.9	4714.9	5599.7	6463.6	7130.3	6759.0	5574.5	4343.0	3333.7	2483.0	1852.0
66°	4049.5	4399.1	5302.7	6188.8	6894.2	6583.7	5447.0	4254.7	3242.5	2514.6	1743.6
67°	3804.4	4111.3	5007.6	5915.8	6641.5	6379.8	5312.5	4161.6	3141.9	2494.2	1718.4
68°	3541.1	3858.8	4720.3	5635.6	6356.6	6151.8	5111.1	4024.9	3166.3	2432.6	1762.1
69°	3154.6	3592.9	4450.2	5362.6	6055.6	5878.2	4806.2	3862.2	3180.9	2449.3	1612.0
70°	2587.7	3241.5	4198.3	5086.6	5747.0	5539.1	4365.0	3642.9	3187.4	2383.7	1604.7
71°	1842.2	2750.8	3945.7	4812.2	5397.4	5137.2	3858.8	3356.8	3122.4	2389.2	1388.8
72°	1172.5	2083.1	3661.6	4527.4	5009.3	4664.9	3425.0	3038.3	3004.2	2375.6	1339.3
73°	902.4	1378.9	3320.9	4234.2	4575.6	4152.5	3012.8	2759.5	2886.1	2340.4	1242.4
74°	640.7	838.3	2860.7	3903.6	4115.5	3632.1	2438.2	2553.5	2757.8	2360.3	1126.0
75°	379.0	617.6	2222.5	3480.4	3614.5	3071.6	1863.5	2160.2	2611.4	2311.2	1084.4
76°	334.2	403.6	1551.3	2958.2	3097.9	2373.7	1288.5	1766.9	2482.5	2248.1	1056.9
77°	299.0	346.7	1012.0	2311.3	2561.5	1561.9	703.7	1372.6	2375.5	2033.1	997.4
78°	270.3	306.0	791.2	1542.7	1988.5	898.4	367.1	792.1	2065.2	1818.1	899.7
79°	244.8	273.3	580.3	841.3	1383.1	623.3	300.3	580.2	1755.1	1601.0	763.9
80°	221.7	245.0	369.4	580.6	864.6	350.3	233.5	368.3	1440.0	1306.2	654.4
81°	200.4	219.6	312.4	331.1	567.6	295.7	167.4	159.9	799.5	977.4	591.4
82°	180.5	196.1	270.9	283.2	276.1	252.6	141.3	124.1	586.0	778.6	589.1
83°	161.5	174.0	234.5	247.2	214.3	205.1	117.7	95.9	372.4	616.8	483.8
84°	143.1	153.4	198.5	214.7	174.1	155.5	95.5	75.1	159.7	440.4	360.0
85°	125.5	134.1	160.4	183.9	138.7	118.7	73.9	58.0	140.2	325.9	254.3
86°	108.1	115.8	130.8	153.9	108.1	92.0	54.2	43.9	112.3	211.4	149.2
87°	93.0	98.5	105.9	121.3	84.5	69.3	41.6	34.1	83.2	98.2	91.5
88°	78.1	83.8	86.7	93.2	61.1	46.7	29.0	24.2	63.1	66.8	62.4
89°	63.1	69.2	67.7	65.2	37.7	27.3	16.4	14.3	43.1	35.4	33.2

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CATALOG NUMBER: XAS180-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1445003

CATALOG NUMBER: XAS180-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P1445003
CATALOG NUMBER: XAS180-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1445003

CATALOG NUMBER: XAS180-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	3778.1	3778.1	3778.1	3778.1	3778.1	3778.1	3778.1	3778.1	3778.1	3778.1	3778.1
1°	3677.5	3677.7	3683.0	3696.7	3714.7	3738.2	3763.5	3771.3	3801.4	3829.6	3854.2
2°	3584.3	3581.8	3592.7	3615.9	3650.2	3693.0	3744.0	3779.8	3839.3	3896.9	3947.8
3°	3499.7	3494.0	3508.1	3540.9	3590.8	3654.0	3728.2	3793.0	3881.4	3967.4	4044.8
4°	3423.1	3417.1	3432.7	3473.0	3536.3	3619.3	3717.1	3808.8	3927.4	4043.9	4152.5
5°	3355.4	3346.8	3364.5	3412.7	3487.4	3588.8	3709.5	3828.3	3978.3	4128.8	4268.3
6°	3291.1	3280.6	3301.9	3357.6	3445.1	3561.3	3704.6	3851.3	4034.0	4221.5	4394.7
7°	3232.5	3219.7	3243.2	3305.9	3405.4	3538.9	3704.0	3879.7	4093.5	4318.7	4529.8
8°	3178.3	3162.9	3189.1	3259.5	3370.0	3519.0	3706.3	3908.2	4157.8	4422.4	4675.0
9°	3126.8	3109.1	3138.4	3216.0	3338.6	3502.6	3710.5	3941.0	4227.9	4533.8	4831.1
10°	3078.8	3059.7	3091.9	3176.4	3308.7	3488.3	3716.9	3977.3	4300.4	4651.3	4994.2
11°	3034.6	3013.1	3048.7	3140.7	3283.8	3476.7	3726.6	4018.5	4380.3	4776.8	5170.0
12°	2994.1	2971.3	3007.2	3106.8	3261.1	3467.6	3739.6	4061.2	4461.0	4909.9	5356.1
13°	2957.2	2931.2	2970.4	3075.9	3240.9	3461.7	3754.8	4107.0	4547.5	5049.4	5555.7
14°	2921.6	2892.6	2935.0	3047.1	3223.6	3457.7	3771.7	4153.6	4637.0	5194.5	5767.1
15°	2886.7	2854.8	2900.3	3019.5	3207.8	3456.9	3789.4	4203.7	4730.7	5352.7	5993.9
16°	2846.6	2770.5	2861.8	2993.3	3192.5	3457.2	3807.8	4256.0	4828.1	5515.0	6232.6
17°	2737.2	2676.0	2757.8	2967.5	3178.5	3457.8	3830.0	4308.4	4929.9	5689.1	6473.2
18°	2660.2	2626.7	2678.8	2927.2	3166.5	3460.1	3852.1	4363.2	5035.3	5868.8	6717.0
19°	2632.0	2598.0	2649.0	2838.4	3154.4	3460.4	3861.0	4410.1	5144.0	6051.4	6963.0
20°	2607.8	2572.1	2624.5	2771.9	3142.5	3449.5	3876.3	4453.5	5257.8	6236.7	7201.4
21°	2586.5	2550.7	2602.9	2747.1	3128.8	3442.2	3898.7	4502.6	5361.4	6424.4	7430.3
22°	2569.3	2531.1	2585.7	2732.2	3075.1	3447.4	3927.5	4562.7	5466.4	6612.2	7646.9
23°	2554.4	2514.6	2571.9	2719.3	3010.8	3454.7	3956.2	4627.6	5586.0	6792.2	7847.9
24°	2540.5	2499.4	2559.0	2709.1	2963.8	3462.1	3981.2	4694.1	5705.4	6969.6	8039.8
25°	2528.2	2484.9	2546.8	2700.8	2951.0	3460.1	3998.8	4757.1	5834.5	7123.0	8218.9
26°	2515.7	2472.9	2536.4	2694.2	2945.6	3459.8	4021.7	4810.3	5964.3	7263.7	8389.5
27°	2505.3	2463.0	2526.8	2688.4	2933.5	3461.8	4043.2	4870.0	6095.3	7403.3	8550.1
28°	2496.9	2454.4	2519.0	2682.6	2924.7	3473.6	4074.7	4932.3	6217.9	7536.8	8703.0
29°	2488.2	2418.0	2510.7	2678.1	2923.8	3484.9	4107.2	5001.7	6325.9	7656.3	8842.3
30°	2420.6	2286.4	2453.7	2674.6	2928.4	3476.1	4140.0	5074.2	6434.6	7778.2	8974.6
31°	2306.5	2261.1	2337.7	2663.6	2934.1	3448.3	4172.0	5147.0	6543.2	7895.1	9098.0
32°	2287.7	2261.8	2316.9	2651.1	2941.5	3421.3	4203.0	5221.0	6644.9	8005.5	9209.6
33°	2286.1	2264.8	2315.9	2575.5	2948.8	3395.0	4216.7	5294.1	6745.0	8104.4	9302.7
34°	2287.1	2270.4	2317.0	2484.6	2956.0	3396.1	4230.6	5368.2	6845.8	8192.4	9382.5
35°	2289.0	2277.9	2320.0	2472.2	2957.3	3404.2	4253.8	5430.9	6942.1	8268.4	9452.7
36°	2292.6	2284.5	2324.5	2475.5	2957.9	3414.2	4280.0	5479.5	7032.1	8338.9	9519.0
37°	2293.9	2290.1	2327.5	2480.2	2958.5	3427.2	4309.1	5531.4	7117.4	8408.2	9576.8
38°	2294.3	2295.2	2329.4	2479.6	2959.0	3442.1	4341.6	5589.3	7199.0	8475.6	9624.6
39°	2293.6	2295.5	2331.1	2478.7	2847.9	3448.4	4376.7	5645.3	7275.8	8535.3	9659.1
40°	2288.9	2169.5	2328.3	2483.8	2782.7	3459.2	4409.8	5704.5	7342.8	8590.4	9688.3
41°	2159.5	2104.6	2214.9	2491.8	2784.0	3483.3	4432.6	5761.1	7391.4	8642.4	9706.0
42°	2088.1	2105.6	2131.1	2500.0	2796.3	3508.5	4450.2	5815.6	7431.5	8695.0	9716.0
43°	2086.8	2109.2	2130.3	2505.9	2810.7	3535.2	4461.6	5872.1	7473.1	8739.7	9716.6
44°	2088.6	2111.8	2133.9	2452.9	2827.1	3562.8	4495.6	5925.5	7512.3	8780.8	9707.9

REPORT NUMBER: P1445003

CATALOG NUMBER: XAS180-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	2091.2	2111.8	2138.1	2333.9	2842.9	3589.3	4538.7	5965.5	7553.8	8813.9	9683.0
46°	2093.4	2108.7	2141.5	2327.9	2846.8	3603.4	4583.2	5995.4	7595.2	8843.0	9642.0
47°	2094.8	2032.8	2144.0	2335.4	2850.9	3605.4	4628.2	6014.1	7630.2	8865.6	9585.4
48°	2025.4	1957.0	2143.9	2339.5	2869.7	3619.5	4672.5	6024.4	7661.9	8878.2	9520.8
49°	1956.0	1882.4	2018.4	2335.6	2880.7	3609.3	4715.5	6051.1	7684.7	8881.7	9443.6
50°	1887.0	1878.2	1927.8	2335.2	2822.1	3529.0	4742.3	6085.0	7701.6	8867.0	9359.0
51°	1894.1	1876.1	1934.0	2340.1	2694.0	3480.9	4721.1	6115.2	7710.7	8833.1	9261.4
52°	1904.2	1876.4	1943.6	2263.7	2695.4	3497.6	4707.5	6142.7	7709.1	8790.0	9149.7
53°	1915.0	1875.8	1953.8	2135.8	2715.4	3522.7	4724.7	6163.8	7694.7	8734.9	9024.3
54°	1923.7	1867.3	1907.8	2146.7	2741.0	3535.2	4718.0	6177.8	7671.0	8668.9	8880.6
55°	1927.6	1690.6	1861.7	2163.2	2755.9	3543.3	4714.5	6187.2	7627.2	8592.5	8728.3
56°	1760.6	1663.0	1815.8	2182.7	2768.5	3575.7	4720.4	6177.1	7561.9	8508.4	8559.8
57°	1729.8	1670.5	1778.2	2202.7	2766.6	3599.8	4710.5	6147.5	7490.8	8415.4	8382.2
58°	1737.4	1679.0	1786.3	2216.9	2647.2	3607.4	4710.8	6102.9	7417.8	8302.6	8188.8
59°	1748.8	1605.1	1796.3	2055.0	2607.2	3622.5	4713.0	6059.4	7347.4	8179.3	7983.0
60°	1621.8	1458.4	1682.8	2057.4	2643.7	3545.2	4685.4	6011.7	7266.7	8036.9	7758.7
61°	1546.1	1474.5	1601.6	2068.8	2684.0	3458.2	4626.9	5951.5	7168.7	7877.1	7519.1
62°	1564.7	1489.7	1622.3	2090.8	2725.6	3460.5	4599.6	5880.8	7057.3	7701.7	7275.8
63°	1584.1	1304.3	1639.3	1963.5	2758.8	3462.1	4563.5	5798.8	6929.7	7502.8	7018.5
64°	1378.8	1287.5	1428.2	1947.0	2639.1	3462.7	4496.4	5688.7	6783.0	7294.3	6757.7
65°	1391.9	1303.3	1434.5	1910.2	2641.8	3440.1	4427.1	5550.9	6613.1	7065.9	6483.6
66°	1401.6	1088.6	1452.8	1873.4	2658.4	3356.2	4325.4	5396.7	6411.0	6827.2	6200.6
67°	1160.5	1053.4	1204.6	1838.6	2640.2	3227.2	4210.3	5211.3	6192.3	6564.5	5920.1
68°	1180.2	813.1	1218.5	1878.5	2571.9	3235.2	4041.0	4934.3	5930.1	6276.9	5635.3
69°	943.7	733.5	980.5	1727.8	2567.8	3234.4	3821.7	4538.4	5617.8	5967.4	5361.6
70°	901.4	502.0	925.4	1710.6	2506.0	3227.0	3536.7	4015.9	5230.3	5624.4	5070.0
71°	596.8	270.5	598.8	1490.6	2478.6	3150.1	3207.5	3521.6	4766.6	5241.9	4769.6
72°	370.3	41.3	350.4	1440.6	2461.0	3008.7	2884.3	3083.0	4242.9	4817.0	4464.1
73°	305.7	0.5	278.7	1307.1	2408.9	2863.4	2587.5	2621.6	3702.8	4350.5	4133.5
74°	275.9	0.4	257.0	1162.6	2404.1	2719.0	2221.2	2099.0	3169.2	3848.3	3769.9
75°	226.6	0.4	220.0	1093.4	2281.5	2563.9	1854.8	1451.4	2595.6	3301.0	3319.4
76°	177.2	0.4	183.0	1055.3	2093.1	2389.7	1486.9	843.6	1891.4	2756.6	2783.2
77°	128.4	0.4	146.1	994.0	1904.8	2094.6	916.3	559.2	1160.8	2237.9	2130.7
78°	95.6	0.4	117.8	895.3	1716.1	1799.5	477.9	278.6	878.5	1692.9	1402.9
79°	94.3	0.5	117.8	757.8	1485.1	1497.8	320.8	217.8	605.2	1129.9	1038.5
80°	128.5	0.5	143.9	661.1	1225.6	907.3	167.5	184.1	331.9	840.9	683.3
81°	158.4	0.6	151.2	616.4	927.2	655.0	132.5	156.9	284.1	554.8	328.2
82°	142.7	0.6	92.9	580.1	716.0	402.8	107.8	131.7	242.8	268.8	282.9
83°	88.6	0.7	65.5	483.0	510.0	153.9	87.0	108.7	198.1	210.3	248.3
84°	48.3	0.8	38.1	346.8	367.7	130.2	69.1	88.4	154.2	171.3	215.6
85°	36.0	0.9	10.9	210.5	225.5	103.4	54.2	68.2	117.6	135.7	184.2
86°	23.7	1.1	9.6	77.5	86.7	76.2	41.2	47.9	93.3	105.0	153.6
87°	11.6	1.2	9.6	53.8	44.5	54.5	31.2	31.6	69.2	82.1	119.8
88°	7.9	1.3	8.3	30.1	30.8	37.8	21.3	18.2	45.1	59.4	92.1
89°	5.7	1.5	4.6	6.9	17.1	21.1	11.3	12.6	26.2	36.7	64.5

REPORT NUMBER: P1445003

CATALOG NUMBER: XAS180-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1445003

CATALOG NUMBER: XAS180-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P1445003
CATALOG NUMBER: XAS180-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1445003

CATALOG NUMBER: XAS180-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	3778.1	3778.1	3778.1
1°	3874.7	3889.3	3896.0
2°	3986.5	4013.9	4023.8
3°	4107.1	4147.7	4162.9
4°	4240.6	4297.5	4315.8
5°	4382.0	4457.7	4482.5
6°	4539.0	4634.2	4665.7
7°	4706.2	4819.4	4859.6
8°	4884.3	5022.6	5071.6
9°	5077.4	5243.5	5302.4
10°	5282.1	5477.2	5543.6
11°	5506.9	5731.8	5805.6
12°	5743.2	6003.8	6090.0
13°	5999.9	6298.7	6392.5
14°	6269.1	6609.7	6721.3
15°	6558.0	6940.3	7073.3
16°	6848.3	7276.5	7436.3
17°	7146.5	7623.1	7793.4
18°	7444.9	7964.9	8149.5
19°	7732.1	8286.9	8480.1
20°	8007.5	8589.5	8782.9
21°	8267.1	8866.5	9054.4
22°	8507.3	9110.9	9290.7
23°	8736.4	9333.8	9499.7
24°	8949.9	9524.7	9682.4
25°	9143.4	9692.1	9840.5
26°	9318.6	9833.0	9974.1
27°	9476.8	9955.4	10086.4
28°	9616.8	10057.8	10179.0
29°	9738.2	10141.6	10255.8
30°	9844.5	10209.5	10313.9
31°	9934.7	10262.7	10359.2
32°	10008.6	10302.1	10386.8
33°	10067.7	10324.8	10400.6
34°	10116.0	10334.6	10401.6
35°	10150.4	10331.7	10389.8
36°	10171.1	10316.9	10367.1
37°	10179.0	10292.3	10332.6
38°	10176.0	10257.8	10289.3
39°	10160.3	10214.4	10236.1
40°	10133.7	10163.2	10175.0
41°	10098.2	10104.1	10102.2
42°	10051.9	10036.2	10018.4
43°	9993.8	9959.3	9922.9
44°	9924.9	9869.7	9815.2

REPORT NUMBER: P1445003

CATALOG NUMBER: XAS180-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	9849.4	9770.6	9693.4
46°	9764.2	9659.3	9553.9
47°	9667.3	9530.0	9406.9
48°	9562.2	9394.6	9252.2
49°	9441.8	9237.0	9076.7
50°	9308.0	9067.9	8881.7
51°	9155.4	8878.5	8671.0
52°	8985.8	8669.4	8444.0
53°	8797.1	8443.1	8202.4
54°	8595.7	8199.6	7942.6
55°	8382.6	7943.9	7677.8
56°	8148.5	7667.5	7391.4
57°	7906.3	7376.2	7106.5
58°	7651.5	7086.7	6810.1
59°	7384.8	6786.6	6500.8
60°	7105.9	6477.7	6170.3
61°	6820.5	6149.0	5817.2
62°	6530.6	5815.2	5448.3
63°	6241.9	5466.9	5061.6
64°	5956.8	5120.6	4687.3
65°	5666.2	4775.7	4347.9
66°	5373.5	4462.1	4049.5
67°	5081.6	4175.3	3804.4
68°	4793.7	3926.6	3541.1
69°	4520.1	3659.8	3154.6
70°	4263.1	3326.5	2587.7
71°	3998.0	2867.8	1842.2
72°	3704.3	2222.6	1172.5
73°	3352.3	1506.8	902.4
74°	2874.3	920.0	640.7
75°	2252.4	670.5	379.0
76°	1603.3	422.2	334.2
77°	1074.4	358.8	299.0
78°	838.9	315.8	270.3
79°	610.0	280.9	244.8
80°	381.1	251.0	221.7
81°	318.2	224.7	200.4
82°	274.1	200.9	180.5
83°	236.0	178.3	161.5
84°	199.4	157.5	143.1
85°	161.4	137.1	125.5
86°	131.5	118.3	108.1
87°	106.0	100.1	93.0
88°	86.8	84.9	78.1
89°	67.9	69.7	63.1

REPORT NUMBER: P1445003

CATALOG NUMBER: XAS180-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1445003

CATALOG NUMBER: XAS180-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P1445003

CATALOG NUMBER: XAS180-SFPM (4000K-180W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)