

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: P1445015

Luminaire Tested: XAS180-SFPM (5000K-108W-T3-HSS)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445015
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-108W-T3-HSS)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 60% (108W)
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: 15431.7 lumens
Efficiency: 63.2%
Efficacy: 140.3 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

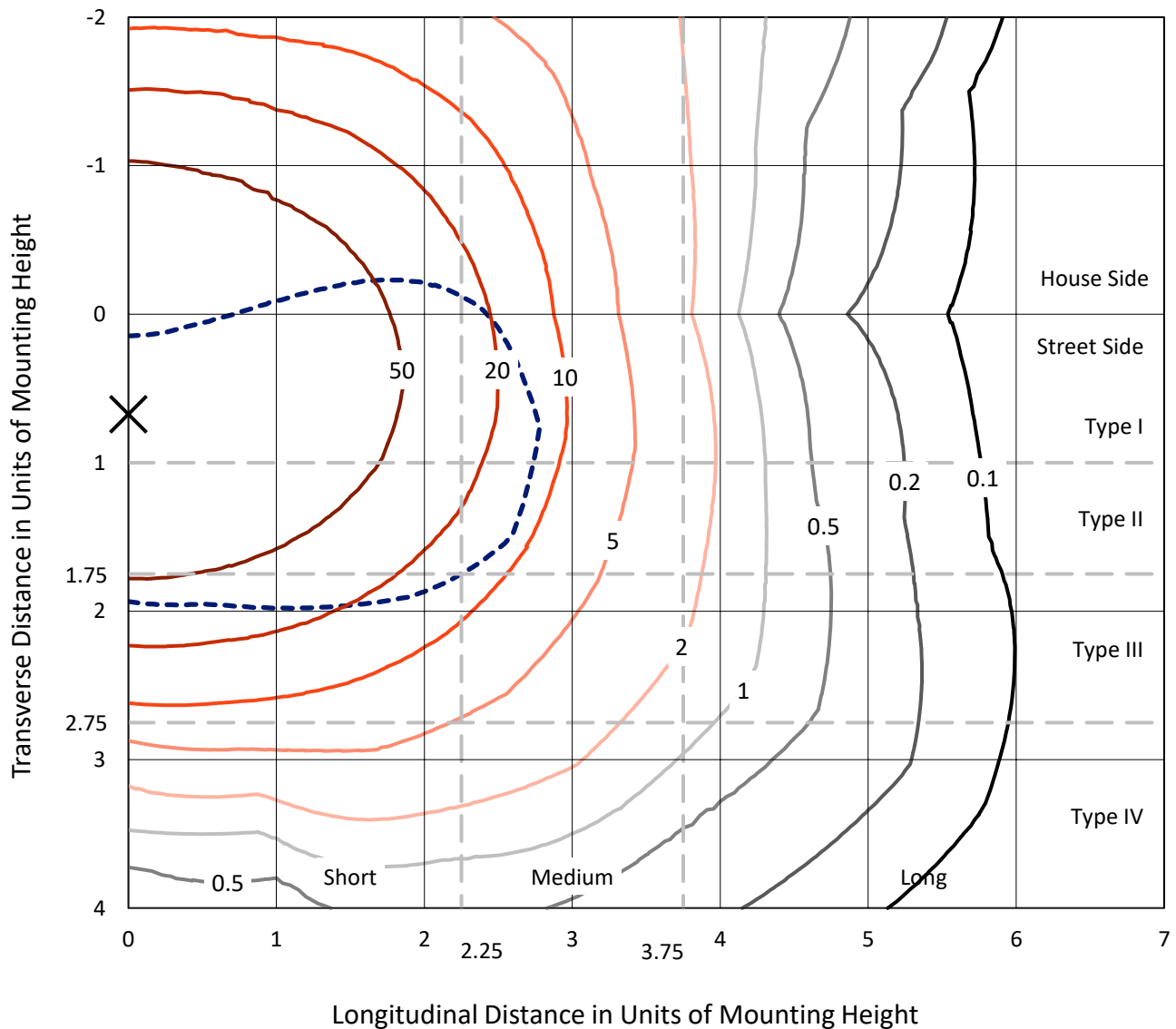
Input Watts (W): 110
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

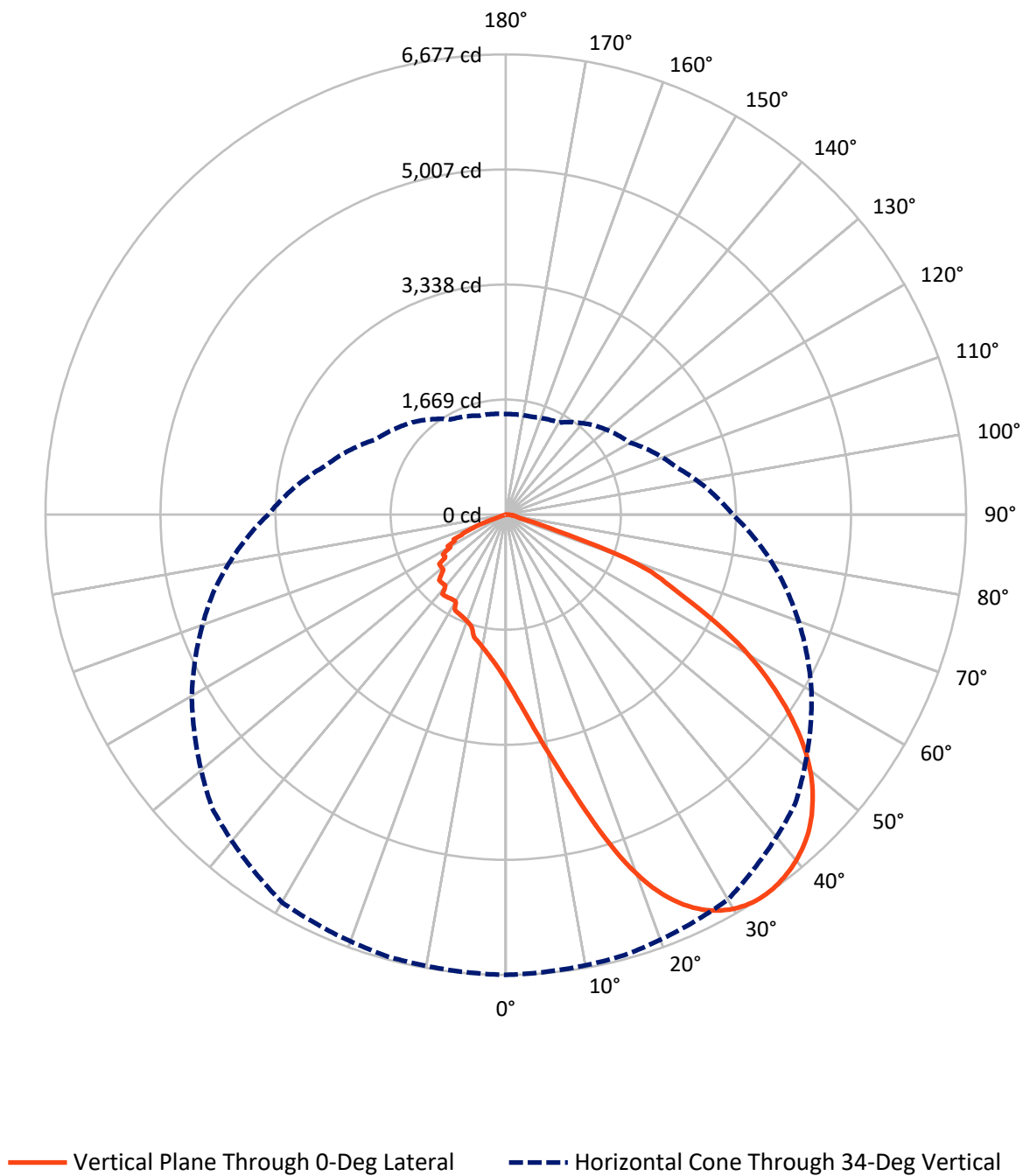


Based on 3 foot mounting height. Maximum calculated value = 523 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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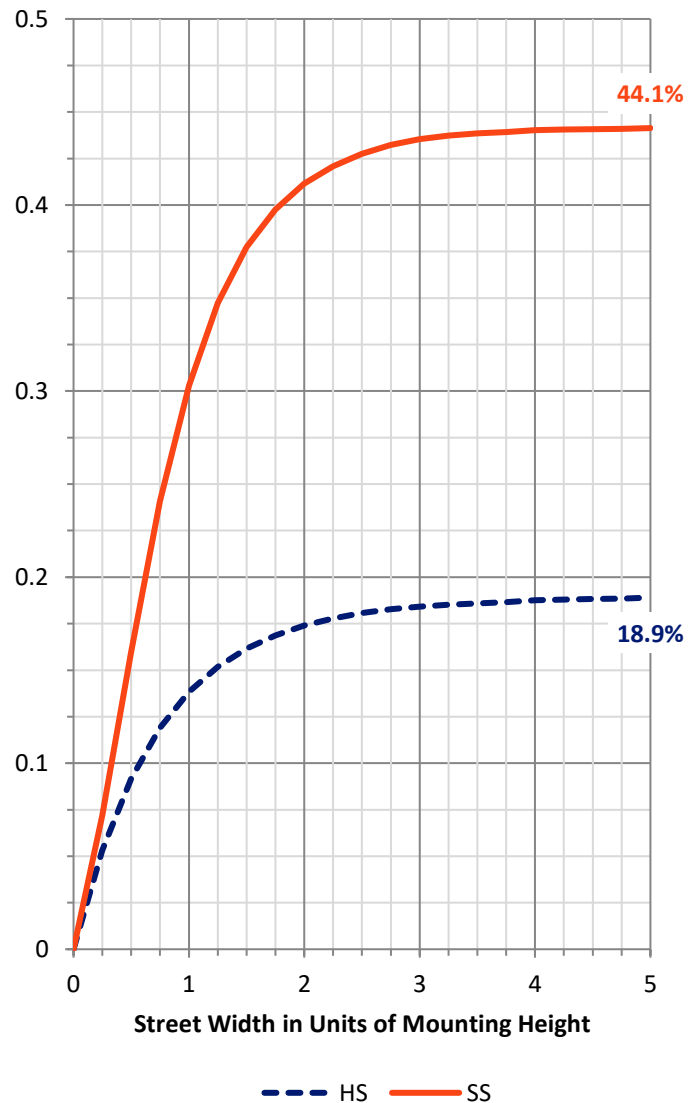
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4641.0	0.0	4641.0
	% Lamp	19.0	0.0	19.0
Street Side	Lumens	10790.6	0.0	10790.6
	% Lamp	44.2	0.0	44.2
Total	Lumens	15431.7	0.0	15431.7
	% Lamp	63.2	0.0	63.2

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	242.4	1.6	1.0
10°-20°	841.9	5.5	3.4
20°-30°	1633.5	10.6	6.7
30°-40°	2401.5	15.6	9.8
40°-50°	2979.9	19.3	12.2
50°-60°	3175.2	20.6	13.0
60°-70°	2760.3	17.9	11.3
70°-80°	1276.9	8.3	5.2
80°-90°	119.9	0.8	0.5
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°	15431.7	100.0	63.2
0°-180°	15431.7	100.0	63.2

Coefficient of Utilization



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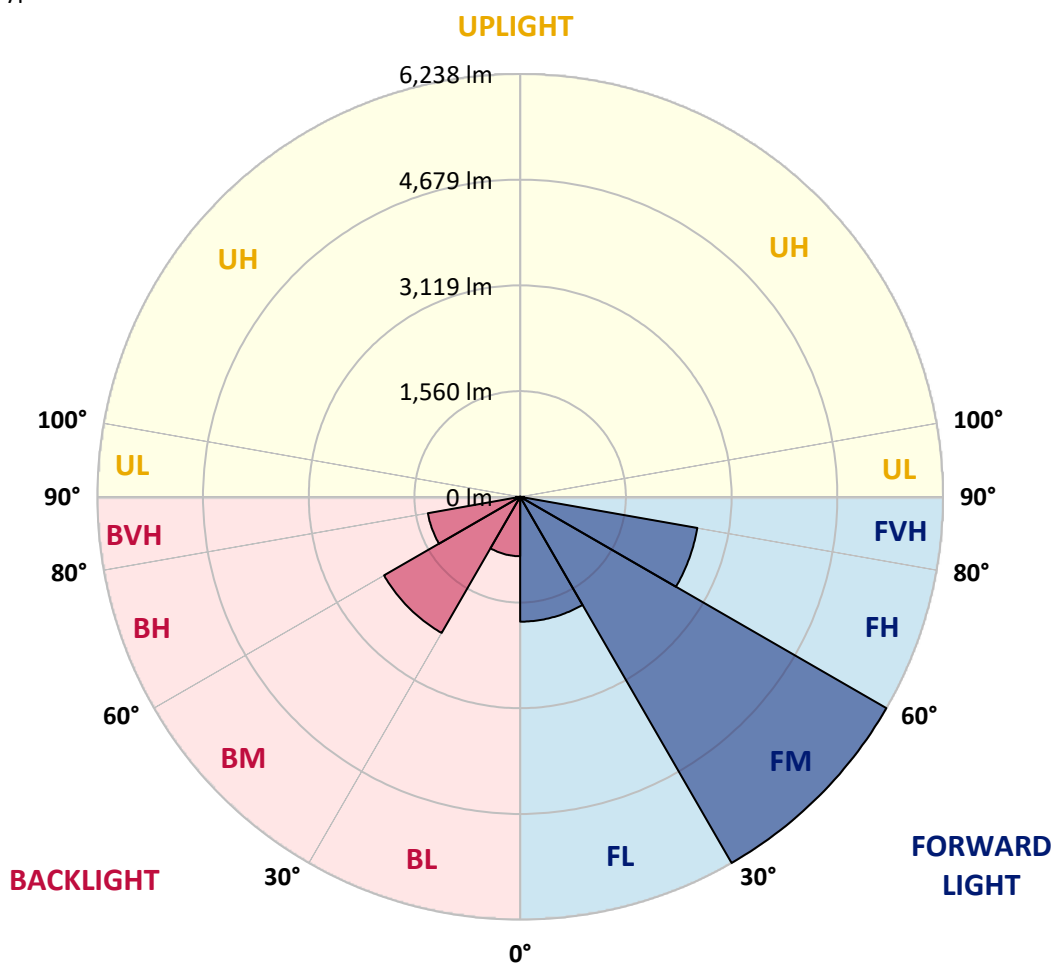
CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3-HSS)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1841.7	7.5			
FM	(30°-60°)	6238.4	25.6			
FH	(60°-80°)	2654.3	10.9			G2/5000
FVH	(80°-90°)	56.3	0.2			G1/100
BL	(0°-30°)	876.1	3.6	B2/1000		
BM	(30°-60°)	2318.2	9.5	B2/2500		
BH	(60°-80°)	1383.0	5.7	B3/2500		G3/2500
BVH	(80°-90°)	63.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		8975.3	36.8			

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°	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1
1°	2500.8	2499.3	2493.2	2481.9	2466.6	2448.9	2416.8	2400.2	2385.2	2373.2	2364.5
2°	2582.8	2579.4	2563.2	2538.5	2505.7	2468.8	2417.9	2383.5	2353.1	2328.9	2310.0
3°	2672.1	2663.2	2638.0	2598.5	2549.1	2492.9	2421.9	2370.7	2325.1	2288.1	2260.7
4°	2770.2	2757.1	2721.2	2665.3	2595.2	2518.8	2427.7	2359.6	2299.8	2251.0	2216.3
5°	2877.3	2860.5	2810.4	2737.5	2645.2	2547.4	2435.6	2350.0	2277.0	2218.3	2177.0
6°	2994.9	2970.6	2909.0	2816.0	2701.3	2578.8	2445.1	2343.1	2256.0	2189.1	2140.9
7°	3119.3	3089.8	3014.0	2900.0	2759.9	2613.6	2458.5	2339.5	2238.9	2162.4	2106.7
8°	3255.4	3221.1	3128.3	2989.8	2823.3	2651.0	2474.3	2338.3	2224.2	2138.0	2076.3
9°	3403.5	3362.4	3250.1	3086.8	2890.9	2691.2	2491.7	2338.1	2212.7	2115.7	2047.6
10°	3558.3	3508.8	3380.5	3187.7	2962.6	2735.0	2511.8	2340.4	2201.8	2096.7	2020.6
11°	3726.5	3669.8	3519.1	3296.5	3038.6	2781.4	2533.8	2344.5	2193.0	2079.2	1996.2
12°	3909.1	3842.3	3665.6	3413.4	3117.9	2830.1	2557.4	2350.2	2186.3	2063.4	1974.4
13°	4103.2	4024.9	3824.4	3535.3	3202.6	2882.0	2582.3	2356.7	2180.7	2048.6	1954.2
14°	4314.3	4227.2	3994.7	3664.6	3291.0	2935.4	2607.1	2363.5	2175.6	2035.3	1935.3
15°	4540.2	4438.6	4175.2	3802.3	3383.8	2990.5	2634.6	2371.5	2171.6	2023.0	1916.4
16°	4773.2	4658.3	4362.3	3948.6	3480.8	3047.5	2663.6	2381.2	2168.6	2011.5	1899.2
17°	5002.5	4876.3	4546.0	4098.9	3583.4	3106.9	2693.5	2391.3	2166.5	2000.8	1881.9
18°	5231.0	5090.3	4730.6	4247.0	3691.3	3168.5	2723.8	2400.1	2165.0	1990.9	1855.4
19°	5443.2	5296.5	4912.5	4393.1	3802.3	3232.3	2745.0	2402.3	2160.6	1982.1	1793.3
20°	5637.6	5487.2	5089.3	4539.0	3913.1	3292.9	2771.6	2408.3	2150.6	1973.2	1749.2
21°	5811.9	5661.7	5255.5	4679.7	4025.7	3348.0	2798.4	2421.9	2143.2	1963.4	1737.4
22°	5963.6	5818.3	5412.0	4815.4	4135.6	3413.2	2833.7	2436.0	2144.4	1928.4	1726.8
23°	6097.7	5960.2	5554.8	4946.3	4244.6	3476.3	2871.0	2448.8	2145.8	1883.7	1717.7
24°	6215.0	6084.7	5689.9	5068.9	4340.5	3549.4	2905.7	2456.4	2142.9	1848.0	1710.9
25°	6316.5	6193.9	5811.7	5187.0	4432.8	3625.7	2935.1	2467.1	2139.9	1842.1	1704.3
26°	6402.2	6288.1	5922.8	5295.5	4523.9	3700.5	2966.0	2477.6	2138.1	1835.1	1699.0
27°	6474.3	6370.0	6025.5	5402.0	4611.6	3773.8	3000.6	2494.1	2142.3	1825.8	1693.3
28°	6533.8	6437.7	6114.8	5502.0	4693.4	3838.9	3036.2	2510.6	2148.6	1819.1	1688.1
29°	6583.1	6492.7	6193.0	5593.6	4773.7	3900.3	3078.0	2527.2	2154.0	1818.9	1684.0
30°	6620.4	6538.2	6262.3	5680.6	4855.2	3964.5	3119.9	2545.0	2146.8	1820.4	1680.0
31°	6649.5	6573.0	6322.0	5759.7	4930.6	4029.3	3163.5	2563.2	2114.8	1822.7	1672.3
32°	6667.2	6598.2	6371.3	5825.1	5001.4	4091.2	3206.7	2579.1	2108.0	1824.8	1662.1
33°	6676.0	6613.4	6413.6	5883.2	5065.8	4156.0	3250.2	2583.9	2082.8	1826.9	1597.2
34°	6676.6	6619.7	6446.5	5935.5	5122.0	4219.3	3292.3	2589.0	2085.6	1827.0	1541.4
35°	6669.1	6619.1	6471.2	5985.3	5172.1	4279.7	3323.3	2601.8	2089.7	1825.6	1538.1
36°	6654.5	6611.5	6485.7	6029.1	5219.1	4337.5	3348.9	2616.6	2095.1	1824.8	1539.3
37°	6632.4	6597.0	6492.7	6065.6	5265.0	4392.9	3378.1	2632.2	2104.4	1827.4	1540.4
38°	6604.6	6575.5	6493.3	6093.6	5309.9	4447.9	3414.4	2649.9	2110.2	1828.0	1539.3
39°	6570.4	6549.6	6486.3	6116.8	5349.7	4497.8	3447.0	2668.9	2111.7	1740.7	1538.3
40°	6531.2	6517.3	6470.5	6135.1	5388.0	4539.3	3482.0	2682.8	2120.8	1700.7	1542.1
41°	6484.4	6478.1	6449.7	6149.3	5421.2	4568.8	3515.7	2695.4	2134.7	1706.5	1545.9
42°	6430.7	6434.5	6421.2	6161.5	5456.5	4597.5	3550.2	2706.4	2148.7	1714.7	1550.1
43°	6369.4	6383.3	6385.8	6165.3	5489.8	4627.0	3582.6	2712.6	2163.5	1723.9	1551.7
44°	6300.3	6326.4	6344.7	6161.1	5519.6	4659.2	3609.8	2731.3	2179.3	1733.9	1501.8

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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	6222.1	6261.1	6295.7	6148.1	5546.1	4690.2	3631.2	2757.3	2195.9	1742.5	1433.8
46°	6132.5	6187.2	6241.5	6128.0	5570.8	4720.9	3650.7	2784.0	2202.9	1742.3	1435.6
47°	6038.2	6102.7	6180.5	6099.0	5592.1	4750.1	3663.0	2811.7	2202.0	1746.8	1439.8
48°	5938.9	6012.0	6112.2	6062.5	5608.0	4774.2	3672.2	2840.5	2209.6	1757.1	1441.8
49°	5826.2	5907.7	6035.2	6020.8	5617.1	4798.1	3691.2	2865.2	2171.3	1763.6	1440.0
50°	5701.1	5795.7	5947.6	5971.1	5617.5	4820.1	3717.7	2870.5	2137.3	1707.7	1440.2
51°	5565.8	5670.4	5848.3	5911.4	5607.1	4834.2	3744.1	2851.9	2105.8	1639.3	1442.5
52°	5420.1	5534.3	5740.1	5842.6	5592.4	4841.8	3768.0	2869.1	2121.5	1644.6	1377.8
53°	5265.0	5386.5	5620.0	5766.6	5569.1	4845.1	3789.1	2874.7	2135.6	1654.8	1308.0
54°	5098.3	5225.8	5491.1	5679.4	5538.3	4844.4	3807.8	2871.6	2143.2	1668.6	1314.7
55°	4928.3	5060.3	5351.5	5583.0	5497.4	4831.1	3823.0	2888.8	2155.2	1676.2	1324.1
56°	4744.5	4886.5	5200.4	5478.3	5451.3	4807.8	3826.2	2899.9	2174.7	1681.7	1334.7
57°	4561.6	4704.5	5045.2	5362.4	5398.3	4778.0	3822.4	2899.9	2190.3	1679.3	1345.0
58°	4371.3	4517.7	4882.3	5236.9	5335.2	4750.5	3807.3	2909.8	2197.3	1589.3	1350.4
59°	4172.8	4328.0	4711.0	5106.1	5261.3	4721.5	3792.9	2919.3	2212.0	1567.9	1243.5
60°	3960.7	4129.7	4535.4	4963.2	5173.9	4685.8	3779.4	2912.2	2152.1	1589.4	1252.4
61°	3734.0	3920.3	4351.6	4814.5	5074.6	4641.8	3755.5	2887.1	2118.1	1615.0	1256.1
62°	3497.2	3702.6	4166.1	4656.6	4969.2	4585.7	3728.7	2879.4	2132.0	1642.3	1219.7
63°	3249.0	3474.9	3977.9	4491.4	4850.9	4516.7	3691.7	2858.7	2142.4	1663.0	1183.5
64°	3008.7	3250.3	3789.7	4322.7	4718.8	4435.1	3640.6	2825.8	2150.2	1585.5	1175.6
65°	2790.9	3026.4	3594.4	4148.9	4576.9	4338.5	3578.2	2787.7	2139.9	1593.8	1188.8
66°	2599.3	2823.7	3403.8	3972.5	4425.3	4226.0	3496.3	2731.0	2081.3	1614.1	1119.2
67°	2442.0	2639.0	3214.3	3797.3	4263.1	4095.1	3410.0	2671.3	2016.7	1601.0	1103.0
68°	2273.0	2476.9	3029.9	3617.4	4080.2	3948.8	3280.7	2583.5	2032.4	1561.4	1131.0
69°	2024.9	2306.2	2856.5	3442.2	3887.0	3773.1	3085.0	2479.1	2041.8	1572.2	1034.7
70°	1661.0	2080.7	2694.8	3265.0	3688.9	3555.5	2801.9	2338.3	2045.9	1530.1	1030.0
71°	1182.5	1765.7	2532.7	3088.9	3464.5	3297.5	2476.9	2154.7	2004.3	1533.6	891.5
72°	752.6	1337.1	2350.4	2906.0	3215.4	2994.3	2198.5	1950.3	1928.3	1524.9	859.7
73°	579.2	885.1	2131.7	2717.9	2937.0	2665.4	1933.9	1771.3	1852.6	1502.2	797.5
74°	411.2	538.1	1836.3	2505.6	2641.7	2331.4	1565.0	1639.1	1770.2	1515.0	722.7
75°	243.3	396.5	1426.6	2234.0	2320.1	1971.6	1196.2	1386.6	1676.2	1483.5	696.1
76°	214.6	259.1	995.7	1898.8	1988.5	1523.6	827.1	1134.1	1593.5	1443.0	678.4
77°	191.9	222.5	649.6	1483.6	1644.2	1002.6	451.7	881.1	1524.8	1305.0	640.2
78°	173.5	196.4	507.8	990.2	1276.4	576.7	235.6	508.4	1325.7	1167.0	577.5
79°	157.1	175.4	372.5	540.0	887.8	400.1	192.7	372.4	1126.6	1027.7	490.4
80°	142.3	157.3	237.1	372.7	555.0	224.9	149.9	236.4	924.3	838.4	420.0
81°	128.6	140.9	200.5	212.5	364.3	189.8	107.5	102.6	513.2	627.4	379.6
82°	115.9	125.9	173.9	181.8	177.2	162.2	90.7	79.7	376.1	499.8	378.1
83°	103.6	111.7	150.5	158.7	137.6	131.6	75.6	61.5	239.1	395.9	310.6
84°	91.9	98.5	127.4	137.8	111.8	99.8	61.3	48.2	102.5	282.7	231.1
85°	80.6	86.1	102.9	118.0	89.1	76.2	47.4	37.2	90.0	209.2	163.2
86°	69.4	74.3	83.9	98.8	69.4	59.0	34.8	28.2	72.1	135.7	95.8
87°	59.7	63.2	67.9	77.9	54.2	44.5	26.7	21.9	53.4	63.0	58.8
88°	50.1	53.8	55.7	59.8	39.2	30.0	18.6	15.5	40.5	42.9	40.0
89°	40.5	44.4	43.4	41.9	24.2	17.5	10.5	9.2	27.6	22.7	21.3

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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: P1445015

CATALOG NUMBER: XAS180-SFPM (5000K-108W-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: P1445015
CATALOG NUMBER: XAS180-SFPM (5000K-108W-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: P1445015

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1	2425.1
1°	2360.5	2360.7	2364.1	2372.9	2384.4	2399.5	2415.7	2420.7	2440.1	2458.2	2474.0
2°	2300.7	2299.1	2306.1	2321.0	2343.0	2370.5	2403.2	2426.2	2464.4	2501.3	2534.0
3°	2246.4	2242.7	2251.8	2272.8	2304.9	2345.4	2393.1	2434.7	2491.4	2546.6	2596.3
4°	2197.2	2193.4	2203.4	2229.3	2269.9	2323.2	2386.0	2444.8	2520.9	2595.7	2665.4
5°	2153.8	2148.3	2159.6	2190.6	2238.5	2303.6	2381.1	2457.3	2553.6	2650.2	2739.8
6°	2112.5	2105.8	2119.5	2155.2	2211.4	2285.9	2377.9	2472.1	2589.3	2709.7	2820.9
7°	2074.9	2066.7	2081.8	2122.0	2185.9	2271.6	2377.5	2490.3	2627.5	2772.1	2907.6
8°	2040.1	2030.2	2047.1	2092.2	2163.1	2258.8	2379.0	2508.6	2668.8	2838.6	3000.8
9°	2007.0	1995.7	2014.5	2064.3	2143.0	2248.2	2381.7	2529.7	2713.8	2910.2	3101.0
10°	1976.2	1964.0	1984.7	2038.9	2123.8	2239.1	2385.8	2553.0	2760.4	2985.6	3205.7
11°	1947.9	1934.1	1956.9	2016.0	2107.8	2231.6	2392.0	2579.4	2811.7	3066.1	3318.5
12°	1921.9	1907.2	1930.3	1994.2	2093.3	2225.8	2400.4	2606.8	2863.4	3151.6	3438.0
13°	1898.2	1881.5	1906.6	1974.4	2080.3	2222.0	2410.2	2636.2	2919.0	3241.1	3566.1
14°	1875.3	1856.7	1883.9	1955.9	2069.2	2219.5	2421.0	2666.2	2976.4	3334.3	3701.8
15°	1853.0	1832.5	1861.7	1938.2	2059.1	2218.9	2432.4	2698.3	3036.5	3435.8	3847.4
16°	1827.2	1778.4	1837.0	1921.4	2049.2	2219.1	2444.2	2731.9	3099.1	3540.0	4000.6
17°	1757.0	1717.7	1770.2	1904.8	2040.2	2219.5	2458.4	2765.5	3164.5	3651.7	4155.1
18°	1707.5	1686.0	1719.5	1878.9	2032.5	2221.0	2472.6	2800.7	3232.1	3767.1	4311.6
19°	1689.5	1667.6	1700.3	1821.9	2024.7	2221.2	2478.3	2830.8	3301.8	3884.3	4469.4
20°	1673.9	1651.0	1684.7	1779.2	2017.2	2214.2	2488.1	2858.6	3374.9	4003.3	4622.5
21°	1660.2	1637.2	1670.7	1763.3	2008.3	2209.5	2502.5	2890.2	3441.4	4123.7	4769.4
22°	1649.2	1624.7	1659.7	1753.8	1973.8	2212.8	2521.0	2928.7	3508.8	4244.3	4908.5
23°	1639.6	1614.1	1650.9	1745.5	1932.6	2217.5	2539.4	2970.4	3585.6	4359.8	5037.5
24°	1630.7	1604.4	1642.6	1739.0	1902.4	2222.3	2555.5	3013.1	3662.2	4473.7	5160.6
25°	1622.8	1595.0	1634.8	1733.6	1894.2	2221.0	2566.8	3053.5	3745.1	4572.2	5275.6
26°	1614.8	1587.3	1628.1	1729.4	1890.8	2220.8	2581.4	3087.7	3828.4	4662.5	5385.1
27°	1608.1	1581.0	1621.9	1725.6	1883.0	2222.1	2595.3	3126.0	3912.5	4752.1	5488.2
28°	1602.7	1575.5	1616.9	1722.0	1877.3	2229.7	2615.5	3166.0	3991.2	4837.8	5586.3
29°	1597.1	1552.1	1611.6	1719.0	1876.7	2236.9	2636.3	3210.5	4060.5	4914.5	5675.8
30°	1553.8	1467.6	1575.0	1716.8	1879.7	2231.2	2657.4	3257.1	4130.3	4992.8	5760.7
31°	1480.5	1451.3	1500.5	1709.8	1883.4	2213.4	2677.9	3303.8	4200.0	5067.7	5839.9
32°	1468.4	1451.8	1487.2	1701.7	1888.1	2196.1	2697.8	3351.3	4265.3	5138.6	5911.5
33°	1467.4	1453.8	1486.6	1653.2	1892.8	2179.2	2706.6	3398.2	4329.5	5202.1	5971.3
34°	1468.0	1457.4	1487.3	1594.8	1897.4	2179.9	2715.5	3445.7	4394.3	5258.6	6022.5
35°	1469.3	1462.2	1489.2	1586.8	1898.2	2185.1	2730.5	3486.0	4456.0	5307.4	6067.5
36°	1471.6	1466.4	1492.1	1589.0	1898.6	2191.5	2747.3	3517.2	4513.8	5352.6	6110.1
37°	1472.4	1470.0	1494.0	1592.0	1899.1	2199.9	2765.9	3550.5	4568.6	5397.1	6147.2
38°	1472.7	1473.3	1495.2	1591.6	1899.4	2209.4	2786.8	3587.7	4620.9	5440.4	6177.9
39°	1472.2	1473.5	1496.3	1591.0	1828.0	2213.5	2809.3	3623.7	4670.2	5478.7	6200.0
40°	1469.2	1392.5	1494.5	1594.3	1786.2	2220.4	2830.6	3661.7	4713.2	5514.0	6218.8
41°	1386.2	1350.9	1421.7	1599.4	1787.0	2235.9	2845.2	3698.0	4744.5	5547.4	6230.1
42°	1340.3	1351.6	1368.0	1604.7	1794.9	2252.0	2856.5	3733.0	4770.2	5581.2	6236.6
43°	1339.5	1353.9	1367.4	1608.5	1804.1	2269.2	2863.8	3769.2	4796.9	5609.9	6237.0
44°	1340.6	1355.6	1369.7	1574.5	1814.7	2286.9	2885.7	3803.5	4822.0	5636.3	6231.3

REPORT NUMBER: P1445015

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1342.3	1355.6	1372.4	1498.1	1824.8	2303.9	2913.3	3829.1	4848.7	5657.5	6215.4
46°	1343.7	1353.5	1374.6	1494.3	1827.4	2313.0	2941.9	3848.4	4875.3	5676.2	6189.0
47°	1344.6	1304.9	1376.2	1499.1	1829.9	2314.3	2970.8	3860.4	4897.7	5690.7	6152.8
48°	1300.0	1256.2	1376.1	1501.7	1842.0	2323.3	2999.2	3867.0	4918.1	5698.8	6111.3
49°	1255.5	1208.3	1295.6	1499.2	1849.1	2316.8	3026.8	3884.1	4932.7	5701.1	6061.7
50°	1211.2	1205.6	1237.5	1499.0	1811.5	2265.2	3044.0	3905.9	4943.6	5691.6	6007.4
51°	1215.8	1204.3	1241.4	1502.1	1729.2	2234.3	3030.4	3925.2	4949.4	5669.8	5944.7
52°	1222.3	1204.5	1247.6	1453.1	1730.1	2245.1	3021.7	3942.9	4948.4	5642.2	5873.0
53°	1229.2	1204.1	1254.1	1370.9	1743.0	2261.1	3032.8	3956.5	4939.1	5606.8	5792.6
54°	1234.8	1198.6	1224.6	1377.9	1759.4	2269.2	3028.4	3965.5	4923.9	5564.4	5700.3
55°	1237.3	1085.1	1195.0	1388.5	1769.0	2274.4	3026.2	3971.5	4895.8	5515.4	5602.6
56°	1130.1	1067.4	1165.6	1401.0	1777.1	2295.2	3030.0	3965.0	4853.9	5461.4	5494.4
57°	1110.3	1072.2	1141.4	1413.9	1775.8	2310.7	3023.6	3946.0	4808.3	5401.8	5380.4
58°	1115.2	1077.7	1146.6	1423.0	1699.2	2315.5	3023.8	3917.3	4761.4	5329.3	5256.3
59°	1122.5	1030.3	1153.0	1319.1	1673.5	2325.3	3025.2	3889.5	4716.2	5250.2	5124.2
60°	1041.0	936.1	1080.1	1320.6	1697.0	2275.6	3007.5	3858.8	4664.4	5158.8	4980.2
61°	992.4	946.5	1028.1	1327.9	1722.8	2219.8	2970.0	3820.2	4601.5	5056.2	4826.4
62°	1004.3	956.2	1041.3	1342.0	1749.5	2221.2	2952.4	3774.8	4530.0	4943.6	4670.2
63°	1016.8	837.2	1052.3	1260.3	1770.8	2222.3	2929.3	3722.2	4448.1	4816.0	4505.1
64°	885.0	826.4	916.7	1249.8	1694.0	2222.6	2886.2	3651.5	4353.9	4682.1	4337.7
65°	893.4	836.5	920.8	1226.1	1695.7	2208.2	2841.7	3563.0	4244.9	4535.5	4161.7
66°	899.6	698.8	932.5	1202.5	1706.4	2154.3	2776.4	3464.1	4115.1	4382.3	3980.1
67°	744.9	676.1	773.2	1180.2	1694.7	2071.5	2702.5	3345.1	3974.8	4213.7	3800.1
68°	757.6	521.9	782.2	1205.8	1650.9	2076.7	2593.8	3167.2	3806.4	4029.1	3617.2
69°	605.8	470.8	629.3	1109.0	1648.2	2076.1	2453.1	2913.1	3606.0	3830.4	3441.5
70°	578.6	322.2	594.0	1098.0	1608.6	2071.3	2270.2	2577.8	3357.2	3610.2	3254.4
71°	383.1	173.6	384.4	956.8	1591.0	2022.0	2058.8	2260.4	3059.6	3364.7	3061.5
72°	237.7	26.5	224.9	924.7	1579.7	1931.2	1851.4	1978.9	2723.5	3092.0	2865.5
73°	196.2	0.3	178.9	839.0	1546.3	1838.0	1660.9	1682.8	2376.8	2792.6	2653.2
74°	177.1	0.2	165.0	746.3	1543.2	1745.3	1425.7	1347.3	2034.3	2470.2	2419.8
75°	145.4	0.2	141.2	701.9	1464.4	1645.7	1190.5	931.6	1666.1	2118.9	2130.7
76°	113.8	0.2	117.5	677.4	1343.5	1533.9	954.4	541.5	1214.1	1769.4	1786.5
77°	82.4	0.3	93.8	638.0	1222.7	1344.5	588.1	358.9	745.1	1436.5	1367.6
78°	61.3	0.3	75.6	574.7	1101.5	1155.1	306.8	178.8	563.9	1086.7	900.5
79°	60.5	0.3	75.6	486.4	953.3	961.4	205.9	139.8	388.5	725.3	666.6
80°	82.5	0.3	92.4	424.4	786.7	582.4	107.5	118.2	213.0	539.7	438.6
81°	101.7	0.4	97.1	395.7	595.1	420.5	85.1	100.7	182.4	356.1	210.7
82°	91.6	0.4	59.7	372.3	459.6	258.5	69.2	84.5	155.9	172.5	181.6
83°	56.9	0.5	42.1	310.1	327.3	98.8	55.8	69.7	127.1	135.0	159.4
84°	31.0	0.5	24.5	222.6	236.0	83.5	44.4	56.7	98.9	110.0	138.4
85°	23.1	0.6	7.0	135.1	144.7	66.4	34.8	43.7	75.5	87.1	118.2
86°	15.2	0.7	6.2	49.7	55.7	48.9	26.4	30.8	59.9	67.4	98.6
87°	7.4	0.8	6.2	34.5	28.6	35.0	20.0	20.3	44.4	52.7	76.9
88°	5.1	0.8	5.4	19.3	19.8	24.3	13.6	11.7	28.9	38.1	59.1
89°	3.6	0.9	3.0	4.4	11.0	13.5	7.3	8.1	16.8	23.6	41.4

REPORT NUMBER: P1445015

CATALOG NUMBER: XAS180-SFPM (5000K-108W-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: P1445015

CATALOG NUMBER: XAS180-SFPM (5000K-108W-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: P1445015
CATALOG NUMBER: XAS180-SFPM (5000K-108W-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: P1445015

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	2425.1	2425.1	2425.1
1°	2487.1	2496.5	2500.8
2°	2558.9	2576.5	2582.8
3°	2636.3	2662.4	2672.1
4°	2722.0	2758.5	2770.2
5°	2812.7	2861.3	2877.3
6°	2913.5	2974.6	2994.9
7°	3020.9	3093.5	3119.3
8°	3135.2	3223.9	3255.4
9°	3259.1	3365.8	3403.5
10°	3390.5	3515.7	3558.3
11°	3534.8	3679.2	3726.5
12°	3686.5	3853.7	3909.1
13°	3851.3	4043.0	4103.2
14°	4024.1	4242.7	4314.3
15°	4209.5	4454.9	4540.2
16°	4395.8	4670.7	4773.2
17°	4587.2	4893.2	5002.5
18°	4778.8	5112.6	5231.0
19°	4963.1	5319.2	5443.2
20°	5139.9	5513.5	5637.6
21°	5306.5	5691.3	5811.9
22°	5460.7	5848.1	5963.6
23°	5607.7	5991.2	6097.7
24°	5744.8	6113.7	6215.0
25°	5869.0	6221.2	6316.5
26°	5981.5	6311.6	6402.2
27°	6083.0	6390.2	6474.3
28°	6172.9	6456.0	6533.8
29°	6250.8	6509.7	6583.1
30°	6319.0	6553.4	6620.4
31°	6377.0	6587.5	6649.5
32°	6424.4	6612.8	6667.2
33°	6462.3	6627.3	6676.0
34°	6493.3	6633.7	6676.6
35°	6515.4	6631.8	6669.1
36°	6528.7	6622.3	6654.5
37°	6533.8	6606.5	6632.4
38°	6531.9	6584.3	6604.6
39°	6521.7	6556.5	6570.4
40°	6504.7	6523.6	6531.2
41°	6481.9	6485.7	6484.4
42°	6452.2	6442.1	6430.7
43°	6414.9	6392.8	6369.4
44°	6370.6	6335.2	6300.3

REPORT NUMBER: P1445015

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	6322.2	6271.6	6222.1
46°	6267.5	6200.2	6132.5
47°	6205.3	6117.2	6038.2
48°	6137.8	6030.3	5938.9
49°	6060.6	5929.1	5826.2
50°	5974.6	5820.6	5701.1
51°	5876.7	5699.0	5565.8
52°	5767.8	5564.8	5420.1
53°	5646.8	5419.5	5265.0
54°	5517.5	5263.2	5098.3
55°	5380.7	5099.1	4928.3
56°	5230.4	4921.7	4744.5
57°	5074.9	4734.7	4561.6
58°	4911.4	4548.8	4371.3
59°	4740.2	4356.2	4172.8
60°	4561.2	4157.9	3960.7
61°	4378.0	3946.9	3734.0
62°	4191.9	3732.7	3497.2
63°	4006.6	3509.2	3249.0
64°	3823.6	3286.9	3008.7
65°	3637.1	3065.4	2790.9
66°	3449.2	2864.2	2599.3
67°	3261.8	2680.1	2442.0
68°	3077.0	2520.4	2273.0
69°	2901.4	2349.2	2024.9
70°	2736.4	2135.3	1661.0
71°	2566.3	1840.8	1182.5
72°	2377.7	1426.6	752.6
73°	2151.8	967.2	579.2
74°	1845.0	590.5	411.2
75°	1445.8	430.4	243.3
76°	1029.1	271.0	214.6
77°	689.7	230.3	191.9
78°	538.5	202.7	173.5
79°	391.5	180.3	157.1
80°	244.6	161.1	142.3
81°	204.2	144.2	128.6
82°	175.9	128.9	115.9
83°	151.5	114.4	103.6
84°	128.0	101.1	91.9
85°	103.6	88.0	80.6
86°	84.4	75.9	69.4
87°	68.0	64.2	59.7
88°	55.7	54.5	50.1
89°	43.6	44.8	40.5

REPORT NUMBER: P1445015

CATALOG NUMBER: XAS180-SFPM (5000K-108W-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: P1445015

CATALOG NUMBER: XAS180-SFPM (5000K-108W-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: P1445015

CATALOG NUMBER: XAS180-SFPM (5000K-108W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)