

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: P1436767

Luminaire Tested: XAS180-SFPM (5000K-72W-T4)

Issue Date: 3/25/2026

Test Information

Test Method: LM-79-2024
Report Number: P1436767
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA ()
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 3/25/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: XAS180-SFPM (5000K-72W-T4)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 40% (72W)
OPTICS - TYPE 4
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

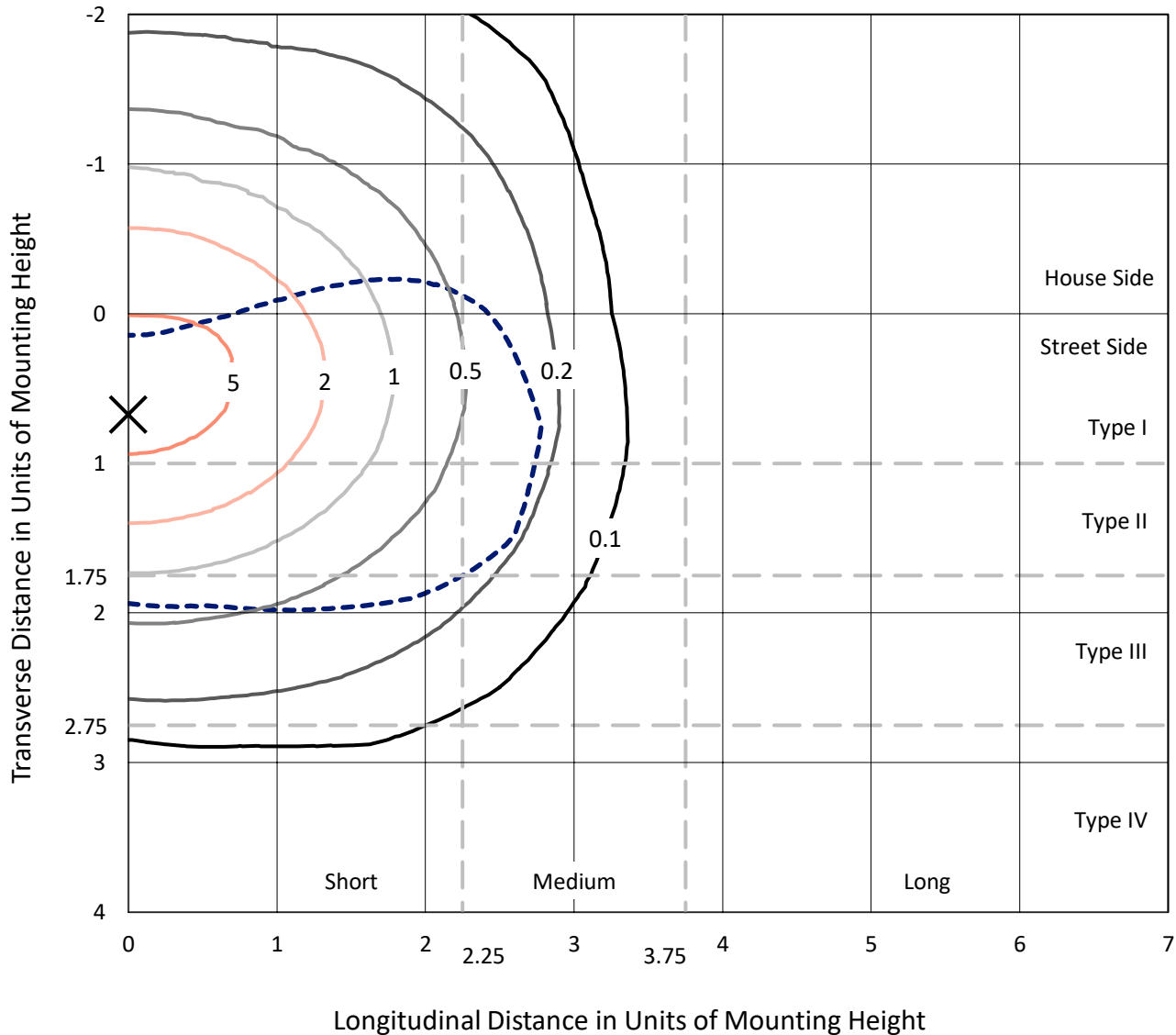
Lumens per Lamp: 24407 (1 lamp)
Luminaire Lumens: 12465 lumens
Efficiency: 51.1%
Efficacy: 173.9 lumens/watt
Luminous Opening: Rectangular (W 0.29m x L: 0.35m x H: 0m)
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 71.7
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

REPORT NUMBER: P1436767
 CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

Iso-Footcandle Lines of Horizontal Illumination

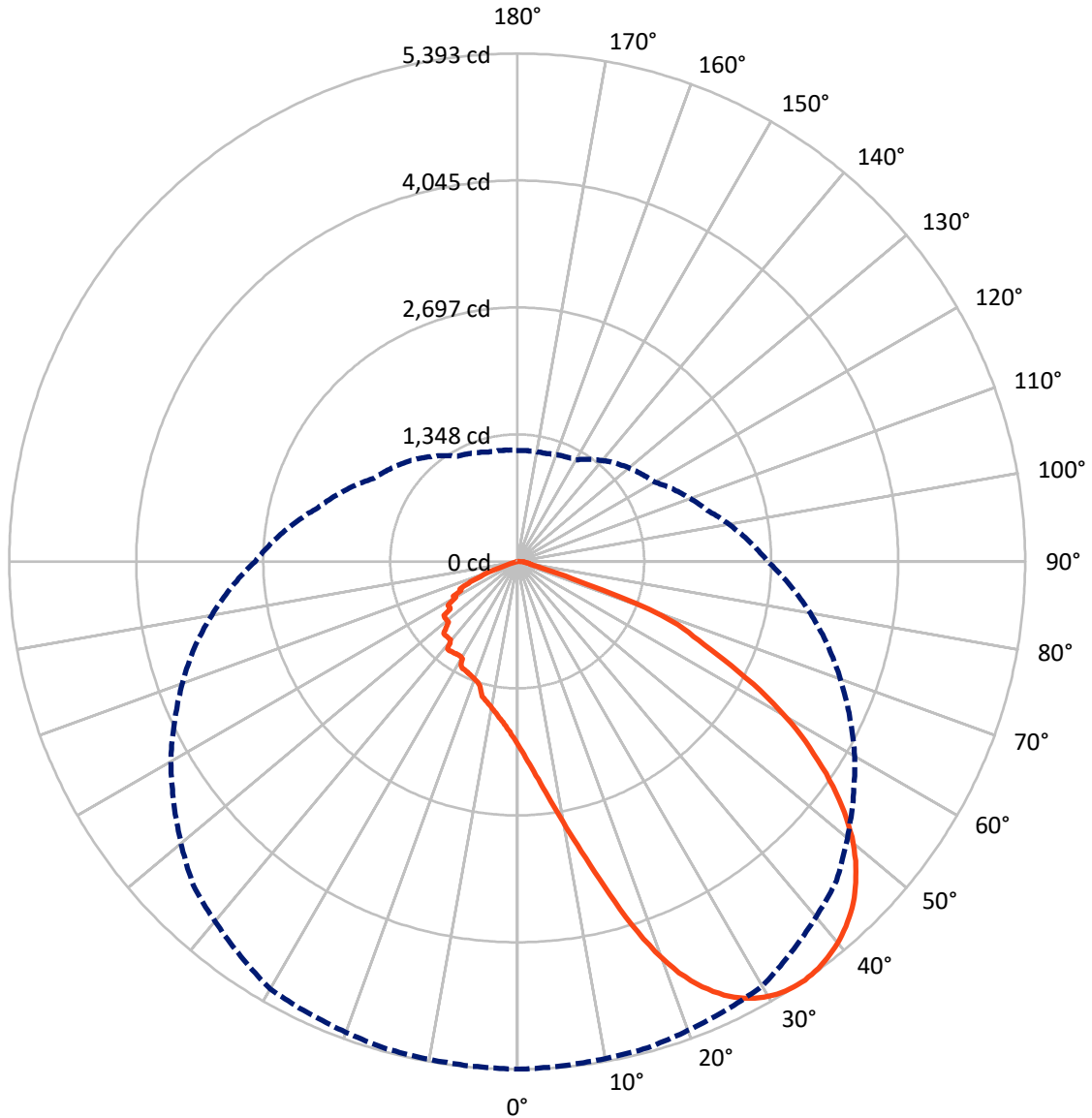
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P1436767
CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 34-Deg Vertical

REPORT NUMBER: P1436767

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

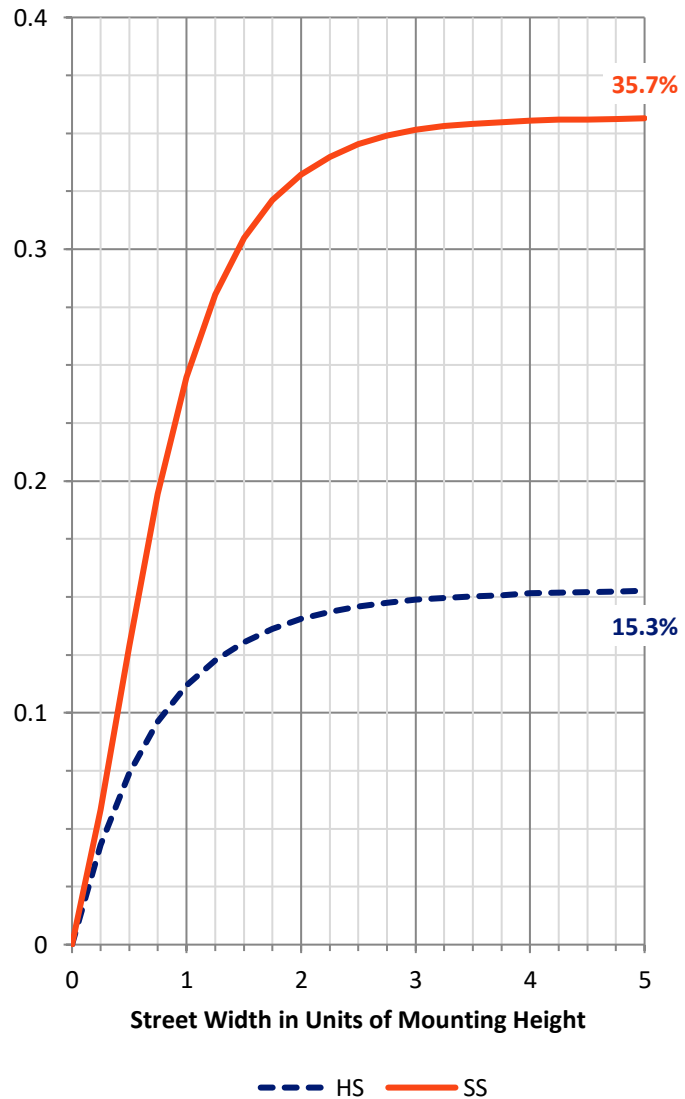
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3748.8	0.0	3748.8
	% Lamp	15.4	0.0	15.4
Street Side	Lumens	8716.2	0.0	8716.2
	% Lamp	35.7	0.0	35.7
Total	Lumens	12465.0	0.0	12465.0
	% Lamp	51.1	0.0	51.1

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	195.8	1.6	0.8
10°-20°	680.1	5.5	2.8
20°-30°	1319.5	10.6	5.4
30°-40°	1939.9	15.6	7.9
40°-50°	2407.1	19.3	9.9
50°-60°	2564.8	20.6	10.5
60°-70°	2229.7	17.9	9.1
70°-80°	1031.5	8.3	4.2
80°-90°	96.9	0.8	0.4
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°	12465.0	100.0	51.1
0°-180°	12465.0	100.0	51.1

Coefficient of Utilization



REPORT NUMBER: P1436767

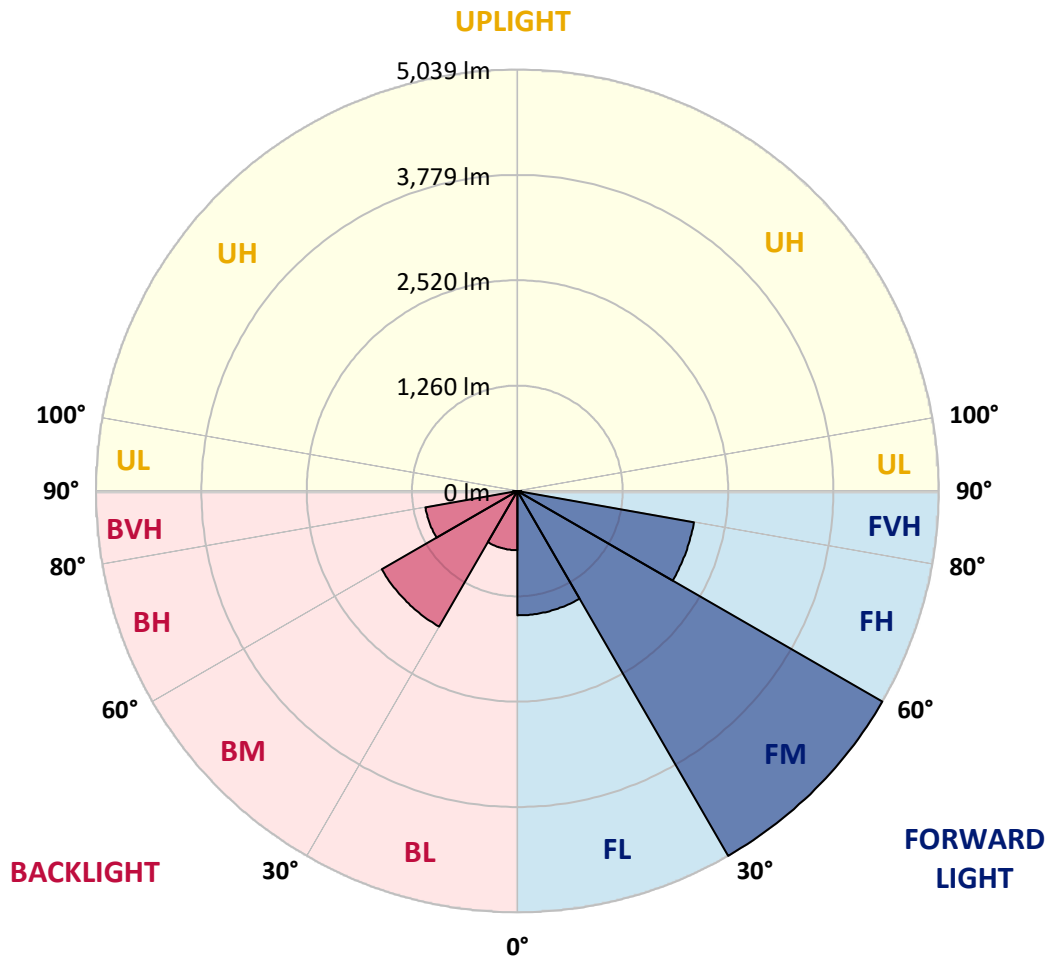
CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1487.7	6.1			
FM (30°-60°)	5039.1	20.6			
FH (60°-80°)	2144.0	8.8			G2/5000
FVH (80°-90°)	45.5	0.2			G1/100
BL (0°-30°)	707.7	2.9	B2/1000		
BM (30°-60°)	1872.6	7.7	B2/2500		
BH (60°-80°)	1117.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	51.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	11942.0	48.9			

BUG Rating: B3-U0-G3

Type III Short





REPORT NUMBER: P1436767

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9
1°	2020.0	2018.8	2013.9	2004.7	1992.4	1978.1	1952.2	1938.8	1926.7	1917.0	1910.0
2°	2086.3	2083.5	2070.5	2050.5	2024.0	1994.2	1953.1	1925.3	1900.7	1881.2	1865.9
3°	2158.4	2151.2	2130.8	2098.9	2059.1	2013.7	1956.3	1914.9	1878.1	1848.2	1826.1
4°	2237.7	2227.1	2198.1	2153.0	2096.3	2034.6	1961.0	1906.0	1857.7	1818.3	1790.2
5°	2324.1	2310.6	2270.1	2211.2	2136.7	2057.7	1967.4	1898.3	1839.3	1791.8	1758.5
6°	2419.1	2399.5	2349.8	2274.7	2182.0	2083.0	1975.1	1892.7	1822.3	1768.3	1729.3
7°	2519.6	2495.8	2434.6	2342.5	2229.3	2111.2	1985.9	1889.8	1808.5	1746.7	1701.7
8°	2629.6	2601.9	2526.9	2415.1	2280.6	2141.4	1998.7	1888.8	1796.6	1727.0	1677.2
9°	2749.2	2716.0	2625.3	2493.4	2335.1	2173.8	2012.7	1888.6	1787.3	1709.0	1653.9
10°	2874.3	2834.3	2730.6	2574.9	2393.0	2209.2	2029.0	1890.5	1778.5	1693.6	1632.1
11°	3010.1	2964.3	2842.6	2662.8	2454.4	2246.7	2046.7	1893.8	1771.4	1679.5	1612.5
12°	3157.6	3103.6	2961.0	2757.2	2518.5	2286.0	2065.7	1898.4	1766.0	1666.7	1594.8
13°	3314.4	3251.1	3089.2	2855.6	2586.9	2328.0	2085.9	1903.7	1761.4	1654.8	1578.6
14°	3484.9	3414.5	3226.8	2960.1	2658.3	2371.1	2105.9	1909.1	1757.4	1644.0	1563.3
15°	3667.4	3585.3	3372.6	3071.3	2733.3	2415.6	2128.1	1915.6	1754.1	1634.1	1548.0
16°	3855.6	3762.8	3523.7	3189.5	2811.6	2461.6	2151.5	1923.4	1751.7	1624.8	1534.1
17°	4040.8	3938.9	3672.1	3310.9	2894.5	2509.6	2175.7	1931.6	1750.0	1616.1	1520.1
18°	4225.4	4111.7	3821.2	3430.6	2981.7	2559.4	2200.2	1938.7	1748.8	1608.2	1498.7
19°	4396.8	4278.3	3968.1	3548.6	3071.4	2610.9	2217.3	1940.4	1745.2	1601.0	1448.5
20°	4553.8	4432.3	4110.9	3666.4	3160.8	2659.8	2238.8	1945.4	1737.2	1593.9	1412.9
21°	4694.6	4573.3	4245.2	3780.0	3251.8	2704.4	2260.5	1956.3	1731.2	1586.0	1403.4
22°	4817.1	4699.8	4371.6	3889.7	3340.6	2757.0	2288.9	1967.7	1732.2	1557.7	1394.8
23°	4925.5	4814.4	4487.0	3995.4	3428.6	2808.0	2319.0	1978.0	1733.3	1521.6	1387.5
24°	5020.2	4914.9	4596.0	4094.4	3506.1	2867.1	2347.1	1984.2	1731.0	1492.7	1382.0
25°	5102.2	5003.2	4694.5	4189.8	3580.6	2928.7	2370.8	1992.8	1728.6	1488.0	1376.6
26°	5171.5	5079.3	4784.2	4277.5	3654.2	2989.1	2395.8	2001.3	1727.1	1482.3	1372.4
27°	5229.7	5145.4	4867.2	4363.5	3725.1	3048.3	2423.7	2014.7	1730.5	1474.8	1367.8
28°	5277.7	5200.1	4939.3	4444.3	3791.2	3100.9	2452.5	2028.0	1735.6	1469.4	1363.6
29°	5317.5	5244.5	5002.4	4518.3	3856.0	3150.5	2486.3	2041.4	1739.9	1469.2	1360.3
30°	5347.7	5281.3	5058.4	4588.5	3921.8	3202.4	2520.1	2055.7	1734.1	1470.4	1357.1
31°	5371.2	5309.4	5106.7	4652.4	3982.7	3254.7	2555.3	2070.4	1708.2	1472.3	1350.8
32°	5385.5	5329.8	5146.4	4705.3	4039.9	3304.7	2590.2	2083.3	1702.8	1474.0	1342.6
33°	5392.6	5342.0	5180.7	4752.2	4091.9	3357.0	2625.4	2087.2	1682.4	1475.7	1290.2
34°	5393.1	5347.1	5207.2	4794.5	4137.3	3408.2	2659.4	2091.3	1684.6	1475.8	1245.1
35°	5387.0	5346.6	5227.1	4834.7	4177.8	3457.0	2684.4	2101.6	1688.0	1474.6	1242.4
36°	5375.2	5340.5	5238.9	4870.0	4215.8	3503.7	2705.1	2113.6	1692.3	1474.0	1243.4
37°	5357.4	5328.8	5244.5	4899.5	4252.8	3548.4	2728.7	2126.1	1699.9	1476.1	1244.2
38°	5334.9	5311.4	5245.0	4922.1	4289.1	3592.8	2758.0	2140.4	1704.6	1476.6	1243.4
39°	5307.3	5290.5	5239.4	4940.9	4321.2	3633.1	2784.3	2155.8	1705.7	1406.1	1242.6
40°	5275.6	5264.4	5226.6	4955.6	4352.2	3666.7	2812.6	2167.1	1713.1	1373.8	1245.7
41°	5237.9	5232.7	5209.8	4967.1	4379.0	3690.5	2839.9	2177.2	1724.3	1378.5	1248.7
42°	5194.4	5197.5	5186.8	4977.0	4407.5	3713.7	2867.7	2186.1	1735.6	1385.0	1252.1
43°	5144.9	5156.1	5158.2	4980.0	4434.4	3737.5	2893.9	2191.1	1747.6	1392.5	1253.4
44°	5089.1	5110.2	5125.0	4976.7	4458.5	3763.5	2915.8	2206.2	1760.4	1400.6	1213.1



REPORT NUMBER: P1436767

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	5025.9	5057.4	5085.4	4966.2	4479.9	3788.6	2933.1	2227.2	1773.8	1407.5	1158.2
46°	4953.6	4997.8	5041.6	4949.9	4499.9	3813.4	2948.8	2248.8	1779.4	1407.4	1159.6
47°	4877.4	4929.5	4992.4	4926.5	4517.0	3836.9	2958.9	2271.1	1778.7	1411.0	1163.0
48°	4797.2	4856.2	4937.2	4897.0	4529.9	3856.4	2966.2	2294.5	1784.8	1419.3	1164.6
49°	4706.2	4772.0	4875.0	4863.4	4537.3	3875.7	2981.6	2314.4	1753.9	1424.5	1163.1
50°	4605.1	4681.5	4804.2	4823.2	4537.6	3893.5	3003.0	2318.6	1726.4	1379.4	1163.3
51°	4495.8	4580.3	4724.0	4775.0	4529.1	3904.9	3024.3	2303.6	1701.0	1324.1	1165.2
52°	4378.1	4470.4	4636.6	4719.4	4517.3	3911.0	3043.6	2317.5	1713.7	1328.4	1112.9
53°	4252.8	4351.0	4539.6	4658.0	4498.4	3913.6	3060.6	2322.1	1725.1	1336.7	1056.6
54°	4118.2	4221.2	4435.5	4587.6	4473.6	3913.1	3075.8	2319.5	1731.2	1347.8	1062.0
55°	3980.8	4087.5	4322.7	4509.7	4440.5	3902.3	3088.1	2333.4	1740.9	1353.9	1069.5
56°	3832.4	3947.1	4200.7	4425.2	4403.4	3883.6	3090.7	2342.4	1756.6	1358.4	1078.1
57°	3684.6	3800.1	4075.3	4331.5	4360.5	3859.5	3087.6	2342.4	1769.2	1356.5	1086.4
58°	3531.0	3649.2	3943.7	4230.1	4309.5	3837.2	3075.4	2350.4	1774.9	1283.8	1090.8
59°	3370.6	3496.0	3805.4	4124.5	4249.8	3813.8	3063.8	2358.1	1786.7	1266.5	1004.5
60°	3199.2	3335.8	3663.5	4009.1	4179.3	3785.0	3052.8	2352.3	1738.4	1283.9	1011.7
61°	3016.2	3166.7	3515.1	3889.0	4099.0	3749.4	3033.5	2332.1	1710.9	1304.5	1014.6
62°	2824.9	2990.8	3365.2	3761.4	4013.9	3704.1	3011.9	2325.8	1722.1	1326.6	985.2
63°	2624.4	2806.9	3213.2	3627.9	3918.3	3648.4	2982.0	2309.1	1730.5	1343.3	955.9
64°	2430.3	2625.5	3061.2	3491.7	3811.6	3582.5	2940.7	2282.6	1736.9	1280.7	949.6
65°	2254.3	2444.6	2903.4	3351.3	3697.0	3504.5	2890.3	2251.8	1728.5	1287.4	960.2
66°	2099.6	2280.9	2749.4	3208.8	3574.6	3413.6	2824.2	2206.0	1681.2	1303.8	904.1
67°	1972.5	2131.7	2596.4	3067.3	3443.5	3307.9	2754.5	2157.8	1629.0	1293.2	891.0
68°	1836.0	2000.8	2447.4	2922.0	3295.8	3189.6	2650.0	2086.9	1641.7	1261.3	913.6
69°	1635.6	1862.9	2307.4	2780.5	3139.8	3047.8	2492.0	2002.5	1649.2	1269.9	835.8
70°	1341.7	1680.7	2176.8	2637.4	2979.7	2872.0	2263.2	1888.8	1652.6	1235.9	832.0
71°	955.2	1426.3	2045.8	2495.1	2798.5	2663.6	2000.8	1740.5	1619.0	1238.8	720.1
72°	608.0	1080.1	1898.5	2347.4	2597.3	2418.7	1775.8	1575.3	1557.6	1231.7	694.4
73°	467.9	714.9	1721.9	2195.4	2372.4	2153.0	1562.1	1430.8	1496.4	1213.5	644.2
74°	332.2	434.6	1483.3	2023.9	2133.9	1883.2	1264.2	1324.0	1429.9	1223.8	583.8
75°	196.5	320.2	1152.3	1804.5	1874.1	1592.6	966.2	1120.0	1354.0	1198.3	562.2
76°	173.3	209.3	804.3	1533.8	1606.2	1230.7	668.1	916.1	1287.1	1165.6	548.0
77°	155.0	179.7	524.7	1198.4	1328.1	809.8	364.9	711.7	1231.7	1054.2	517.1
78°	140.1	158.7	410.2	799.9	1031.0	465.8	190.3	410.7	1070.8	942.7	466.5
79°	126.9	141.7	300.9	436.2	717.1	323.2	155.7	300.8	910.0	830.1	396.1
80°	114.9	127.0	191.5	301.1	448.3	181.6	121.0	191.0	746.6	677.3	339.3
81°	103.9	113.8	162.0	171.7	294.3	153.3	86.8	82.9	414.5	506.8	306.6
82°	93.6	101.7	140.5	146.8	143.2	131.0	73.3	64.4	303.8	403.7	305.4
83°	83.7	90.2	121.6	128.2	111.1	106.3	61.0	49.7	193.1	319.8	250.9
84°	74.2	79.5	102.9	111.3	90.3	80.6	49.5	38.9	82.8	228.3	186.7
85°	65.1	69.5	83.1	95.4	71.9	61.5	38.3	30.0	72.7	169.0	131.9
86°	56.0	60.0	67.8	79.8	56.0	47.7	28.1	22.8	58.2	109.6	77.4
87°	48.2	51.0	54.9	62.9	43.8	35.9	21.6	17.7	43.2	50.9	47.5
88°	40.5	43.5	45.0	48.3	31.7	24.2	15.0	12.6	32.7	34.7	32.3
89°	32.7	35.9	35.1	33.8	19.5	14.1	8.5	7.4	22.3	18.4	17.2



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CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

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: P1436767

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

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: P1436767

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

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: P1436767

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9
1°	1906.7	1906.8	1909.6	1916.7	1926.0	1938.2	1951.3	1955.4	1971.0	1985.6	1998.4
2°	1858.4	1857.1	1862.8	1874.8	1892.6	1914.8	1941.2	1959.8	1990.7	2020.5	2046.9
3°	1814.6	1811.6	1818.9	1835.9	1861.8	1894.5	1933.0	1966.6	2012.5	2057.0	2097.2
4°	1774.8	1771.7	1779.8	1800.7	1833.6	1876.6	1927.3	1974.8	2036.3	2096.7	2153.0
5°	1739.7	1735.3	1744.4	1769.5	1808.2	1860.8	1923.3	1984.9	2062.7	2140.7	2213.1
6°	1706.4	1701.0	1712.0	1740.9	1786.3	1846.5	1920.8	1996.8	2091.6	2188.8	2278.6
7°	1676.0	1669.4	1681.6	1714.0	1765.7	1834.9	1920.5	2011.6	2122.4	2239.2	2348.7
8°	1647.9	1639.9	1653.5	1690.0	1747.3	1824.6	1921.7	2026.3	2155.8	2292.9	2423.9
9°	1621.2	1612.0	1627.2	1667.5	1731.0	1816.0	1923.8	2043.4	2192.1	2350.7	2504.9
10°	1596.3	1586.4	1603.1	1646.9	1715.5	1808.6	1927.2	2062.2	2229.7	2411.6	2589.5
11°	1573.4	1562.3	1580.7	1628.4	1702.6	1802.6	1932.2	2083.5	2271.1	2476.7	2680.6
12°	1552.4	1540.6	1559.2	1610.8	1690.9	1797.9	1938.9	2105.7	2313.0	2545.7	2777.1
13°	1533.3	1519.8	1540.1	1594.8	1680.4	1794.8	1946.8	2129.4	2357.9	2618.1	2880.6
14°	1514.8	1499.8	1521.8	1579.9	1671.4	1792.8	1955.6	2153.6	2404.2	2693.3	2990.2
15°	1496.7	1480.2	1503.8	1565.6	1663.2	1792.3	1964.8	2179.6	2452.8	2775.3	3107.8
16°	1475.9	1436.5	1483.8	1552.0	1655.3	1792.5	1974.3	2206.7	2503.3	2859.5	3231.5
17°	1419.2	1387.5	1429.9	1538.6	1648.0	1792.9	1985.8	2233.9	2556.1	2949.7	3356.3
18°	1379.3	1361.9	1388.9	1517.7	1641.8	1794.0	1997.3	2262.2	2610.8	3042.9	3482.7
19°	1364.7	1347.1	1373.5	1471.7	1635.5	1794.2	2001.9	2286.6	2667.1	3137.6	3610.2
20°	1352.1	1333.6	1360.8	1437.2	1629.4	1788.5	2009.8	2309.1	2726.1	3233.7	3733.9
21°	1341.1	1322.5	1349.6	1424.3	1622.2	1784.7	2021.4	2334.6	2779.8	3331.0	3852.6
22°	1332.1	1312.3	1340.7	1416.6	1594.4	1787.4	2036.4	2365.7	2834.2	3428.4	3964.9
23°	1324.4	1303.8	1333.5	1409.9	1561.0	1791.2	2051.2	2399.4	2896.3	3521.7	4069.0
24°	1317.2	1295.9	1326.8	1404.7	1536.7	1795.0	2064.2	2433.8	2958.2	3613.6	4168.5
25°	1310.8	1288.4	1320.5	1400.3	1530.0	1794.0	2073.3	2466.5	3025.1	3693.2	4261.4
26°	1304.4	1282.2	1315.1	1396.9	1527.3	1793.9	2085.2	2494.1	3092.4	3766.1	4349.9
27°	1299.0	1277.0	1310.1	1393.9	1521.0	1794.9	2096.4	2525.1	3160.3	3838.5	4433.1
28°	1294.6	1272.6	1306.1	1390.9	1516.4	1801.0	2112.7	2557.3	3223.9	3907.8	4512.4
29°	1290.1	1253.7	1301.8	1388.6	1515.9	1806.9	2129.5	2593.3	3279.9	3969.7	4584.7
30°	1255.1	1185.5	1272.2	1386.7	1518.3	1802.3	2146.5	2630.9	3336.3	4032.9	4653.2
31°	1195.9	1172.3	1212.1	1381.1	1521.3	1787.9	2163.1	2668.7	3392.6	4093.5	4717.2
32°	1186.1	1172.7	1201.3	1374.6	1525.1	1773.9	2179.2	2707.0	3445.3	4150.8	4775.0
33°	1185.3	1174.3	1200.8	1335.4	1528.9	1760.3	2186.3	2744.9	3497.2	4202.0	4823.4
34°	1185.8	1177.2	1201.3	1288.2	1532.6	1760.8	2193.5	2783.3	3549.5	4247.7	4864.7
35°	1186.8	1181.1	1202.9	1281.8	1533.3	1765.0	2205.6	2815.9	3599.4	4287.1	4901.1
36°	1188.7	1184.5	1205.2	1283.5	1533.6	1770.2	2219.1	2841.0	3646.1	4323.6	4935.5
37°	1189.3	1187.4	1206.8	1286.0	1534.0	1777.0	2234.2	2868.0	3690.3	4359.5	4965.4
38°	1189.5	1190.1	1207.8	1285.7	1534.2	1784.7	2251.1	2898.0	3732.6	4394.5	4990.3
39°	1189.2	1190.2	1208.6	1285.2	1476.6	1787.9	2269.2	2927.0	3772.4	4425.5	5008.1
40°	1186.8	1124.8	1207.2	1287.8	1442.8	1793.6	2286.5	2957.7	3807.1	4454.0	5023.3
41°	1119.7	1091.2	1148.4	1291.9	1443.5	1806.0	2298.3	2987.0	3832.4	4481.0	5032.4
42°	1082.7	1091.7	1105.0	1296.2	1449.9	1819.1	2307.4	3015.3	3853.2	4508.3	5037.7
43°	1082.0	1093.6	1104.5	1299.3	1457.3	1832.9	2313.3	3044.6	3874.7	4531.4	5038.0
44°	1082.9	1095.0	1106.4	1271.8	1465.8	1847.3	2330.9	3072.3	3895.0	4552.7	5033.4

REPORT NUMBER: P1436767

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1084.2	1095.0	1108.6	1210.1	1474.0	1861.0	2353.3	3093.0	3916.5	4569.9	5020.5
46°	1085.4	1093.3	1110.3	1207.0	1476.1	1868.3	2376.3	3108.5	3938.0	4585.0	4999.3
47°	1086.1	1054.0	1111.7	1210.9	1478.2	1869.4	2399.7	3118.3	3956.2	4596.7	4969.9
48°	1050.1	1014.7	1111.6	1213.0	1487.9	1876.7	2422.7	3123.6	3972.6	4603.2	4936.4
49°	1014.2	976.0	1046.5	1211.0	1493.6	1871.4	2444.9	3137.4	3984.4	4605.1	4896.4
50°	978.4	973.8	999.6	1210.8	1463.2	1829.7	2458.8	3155.0	3993.2	4597.4	4852.5
51°	982.0	972.8	1002.8	1213.3	1396.8	1804.8	2447.8	3170.6	3997.9	4579.9	4801.9
52°	987.3	972.9	1007.7	1173.7	1397.5	1813.5	2440.8	3184.9	3997.1	4557.5	4744.0
53°	992.9	972.6	1013.0	1107.4	1407.9	1826.5	2449.7	3195.9	3989.6	4528.9	4679.0
54°	997.4	968.2	989.2	1113.0	1421.2	1832.9	2446.2	3203.1	3977.3	4494.7	4604.5
55°	999.5	876.5	965.3	1121.6	1428.9	1837.2	2444.4	3208.0	3954.6	4455.1	4525.5
56°	912.8	862.2	941.5	1131.7	1435.5	1854.0	2447.5	3202.8	3920.8	4411.5	4438.2
57°	896.9	866.1	922.0	1142.1	1434.4	1866.4	2442.3	3187.4	3883.9	4363.3	4346.1
58°	900.8	870.6	926.2	1149.5	1372.5	1870.4	2442.5	3164.3	3846.1	4304.8	4245.8
59°	906.7	832.2	931.4	1065.5	1351.8	1878.2	2443.7	3141.7	3809.5	4240.9	4139.1
60°	840.9	756.2	872.5	1066.7	1370.7	1838.2	2429.4	3117.0	3767.7	4167.0	4022.8
61°	801.6	764.5	830.4	1072.6	1391.6	1793.1	2399.0	3085.8	3716.9	4084.2	3898.6
62°	811.3	772.4	841.1	1084.0	1413.2	1794.2	2384.8	3049.2	3659.1	3993.3	3772.4
63°	821.3	676.3	850.0	1018.1	1430.4	1795.0	2366.1	3006.6	3593.0	3890.1	3639.0
64°	714.9	667.6	740.5	1009.5	1368.3	1795.4	2331.3	2949.5	3516.9	3782.0	3503.8
65°	721.7	675.7	743.7	990.4	1369.7	1783.7	2295.4	2878.1	3428.8	3663.6	3361.7
66°	726.7	564.4	753.2	971.3	1378.4	1740.1	2242.7	2798.1	3324.0	3539.8	3214.9
67°	601.7	546.2	624.5	953.3	1368.9	1673.2	2183.0	2702.0	3210.6	3403.6	3069.5
68°	611.9	421.6	631.8	974.0	1333.5	1677.4	2095.2	2558.4	3074.7	3254.5	2921.8
69°	489.3	380.3	508.4	895.8	1331.4	1677.0	1981.5	2353.1	2912.8	3094.0	2779.9
70°	467.3	260.3	479.8	887.0	1299.4	1673.1	1833.8	2082.2	2711.8	2916.2	2628.7
71°	309.4	140.2	310.5	772.9	1285.1	1633.3	1663.0	1825.9	2471.4	2717.9	2473.0
72°	192.0	21.4	181.7	746.9	1276.0	1560.0	1495.5	1598.5	2199.9	2497.6	2314.6
73°	158.5	0.3	144.5	677.7	1249.0	1484.6	1341.6	1359.3	1919.9	2255.7	2143.1
74°	143.1	0.2	133.3	602.8	1246.5	1409.8	1151.7	1088.3	1643.2	1995.3	1954.6
75°	117.5	0.2	114.1	566.9	1182.9	1329.3	961.7	752.5	1345.8	1711.5	1721.1
76°	91.9	0.2	94.9	547.2	1085.3	1239.0	770.9	437.4	980.7	1429.3	1443.1
77°	66.6	0.2	75.8	515.4	987.6	1086.0	475.1	289.9	601.9	1160.3	1104.7
78°	49.5	0.2	61.1	464.2	889.8	933.0	247.8	144.5	455.5	877.8	727.4
79°	48.9	0.2	61.1	392.9	770.0	776.6	166.3	112.9	313.8	585.8	538.4
80°	66.6	0.3	74.6	342.8	635.5	470.4	86.8	95.5	172.1	436.0	354.3
81°	82.1	0.3	78.4	319.6	480.7	339.6	68.7	81.4	147.3	287.7	170.2
82°	74.0	0.3	48.2	300.8	371.2	208.8	55.9	68.3	125.9	139.4	146.7
83°	45.9	0.4	34.0	250.4	264.4	79.8	45.1	56.3	102.7	109.0	128.8
84°	25.0	0.4	19.8	179.8	190.7	67.5	35.9	45.8	79.9	88.8	111.8
85°	18.7	0.5	5.6	109.1	116.9	53.6	28.1	35.3	61.0	70.4	95.5
86°	12.3	0.5	5.0	40.2	45.0	39.5	21.4	24.8	48.4	54.4	79.6
87°	6.0	0.6	5.0	27.9	23.1	28.3	16.2	16.4	35.9	42.6	62.1
88°	4.1	0.7	4.3	15.6	16.0	19.6	11.0	9.5	23.4	30.8	47.8
89°	2.9	0.8	2.4	3.6	8.9	10.9	5.9	6.6	13.6	19.0	33.5



REPORT NUMBER: P1436767

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

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: P1436767

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

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: P1436767

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

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: P1436767

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1958.9	1958.9	1958.9
1°	2009.0	2016.5	2020.0
2°	2067.0	2081.1	2086.3
3°	2129.5	2150.6	2158.4
4°	2198.7	2228.2	2237.7
5°	2272.0	2311.3	2324.1
6°	2353.4	2402.8	2419.1
7°	2440.1	2498.8	2519.6
8°	2532.5	2604.2	2629.6
9°	2632.6	2718.7	2749.2
10°	2738.7	2839.9	2874.3
11°	2855.3	2971.9	3010.1
12°	2977.8	3112.9	3157.6
13°	3110.9	3265.8	3314.4
14°	3250.5	3427.1	3484.9
15°	3400.3	3598.5	3667.4
16°	3550.8	3772.8	3855.6
17°	3705.4	3952.5	4040.8
18°	3860.1	4129.7	4225.4
19°	4009.0	4296.7	4396.8
20°	4151.8	4453.6	4553.8
21°	4286.4	4597.2	4694.6
22°	4411.0	4723.9	4817.1
23°	4529.7	4839.5	4925.5
24°	4640.4	4938.4	5020.2
25°	4740.7	5025.2	5102.2
26°	4831.6	5098.3	5171.5
27°	4913.6	5161.8	5229.7
28°	4986.2	5214.9	5277.7
29°	5049.1	5258.3	5317.5
30°	5104.3	5293.5	5347.7
31°	5151.0	5321.1	5371.2
32°	5189.3	5341.5	5385.5
33°	5220.0	5353.3	5392.6
34°	5245.0	5358.4	5393.1
35°	5262.9	5356.9	5387.0
36°	5273.6	5349.2	5375.2
37°	5277.7	5336.4	5357.4
38°	5276.2	5318.5	5334.9
39°	5268.0	5296.1	5307.3
40°	5254.2	5269.5	5275.6
41°	5235.8	5238.9	5237.9
42°	5211.8	5203.6	5194.4
43°	5181.7	5163.8	5144.9
44°	5145.9	5117.3	5089.1

REPORT NUMBER: P1436767

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	5106.8	5066.0	5025.9
46°	5062.6	5008.2	4953.6
47°	5012.4	4941.2	4877.4
48°	4957.9	4871.0	4797.2
49°	4895.5	4789.3	4706.2
50°	4826.1	4701.6	4605.1
51°	4747.0	4603.4	4495.8
52°	4659.0	4495.0	4378.1
53°	4561.2	4377.7	4252.8
54°	4456.8	4251.4	4118.2
55°	4346.3	4118.8	3980.8
56°	4224.9	3975.5	3832.4
57°	4099.3	3824.5	3684.6
58°	3967.2	3674.4	3531.0
59°	3829.0	3518.8	3370.6
60°	3684.3	3358.6	3199.2
61°	3536.4	3188.2	3016.2
62°	3386.0	3015.1	2824.9
63°	3236.4	2834.6	2624.4
64°	3088.5	2655.0	2430.3
65°	2937.9	2476.1	2254.3
66°	2786.1	2313.6	2099.6
67°	2634.8	2164.9	1972.5
68°	2485.5	2035.9	1836.0
69°	2343.6	1897.5	1635.6
70°	2210.4	1724.8	1341.7
71°	2072.9	1486.9	955.2
72°	1920.6	1152.4	608.0
73°	1738.1	781.2	467.9
74°	1490.3	477.0	332.2
75°	1167.8	347.6	196.5
76°	831.3	218.9	173.3
77°	557.1	186.0	155.0
78°	434.9	163.7	140.1
79°	316.3	145.6	126.9
80°	197.6	130.2	114.9
81°	165.0	116.5	103.9
82°	142.1	104.1	93.6
83°	122.4	92.4	83.7
84°	103.4	81.7	74.2
85°	83.7	71.1	65.1
86°	68.2	61.3	56.0
87°	55.0	51.9	48.2
88°	45.0	44.0	40.5
89°	35.2	36.2	32.7



REPORT NUMBER: P1436767

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

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: P1436767

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

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: P1436767

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T4)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)