

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: P1445033

Luminaire Tested: XAS180-SFPM (5000K-72W-T3-HSS)

Issue Date: 5/5/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445033
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-72W-T3-HSS)
Description: XAS180 ALL-SELECTABLE AREA SITE LUMINAIRE.
LUMEN OUTPUT - 40% (72W)
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: 10627.2 lumens
Efficiency: 43.5%
Efficacy: 145.2 lumens/watt
Luminous Opening: Rectangular (W 0.29m x L: 0.35m x H: 0m)
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

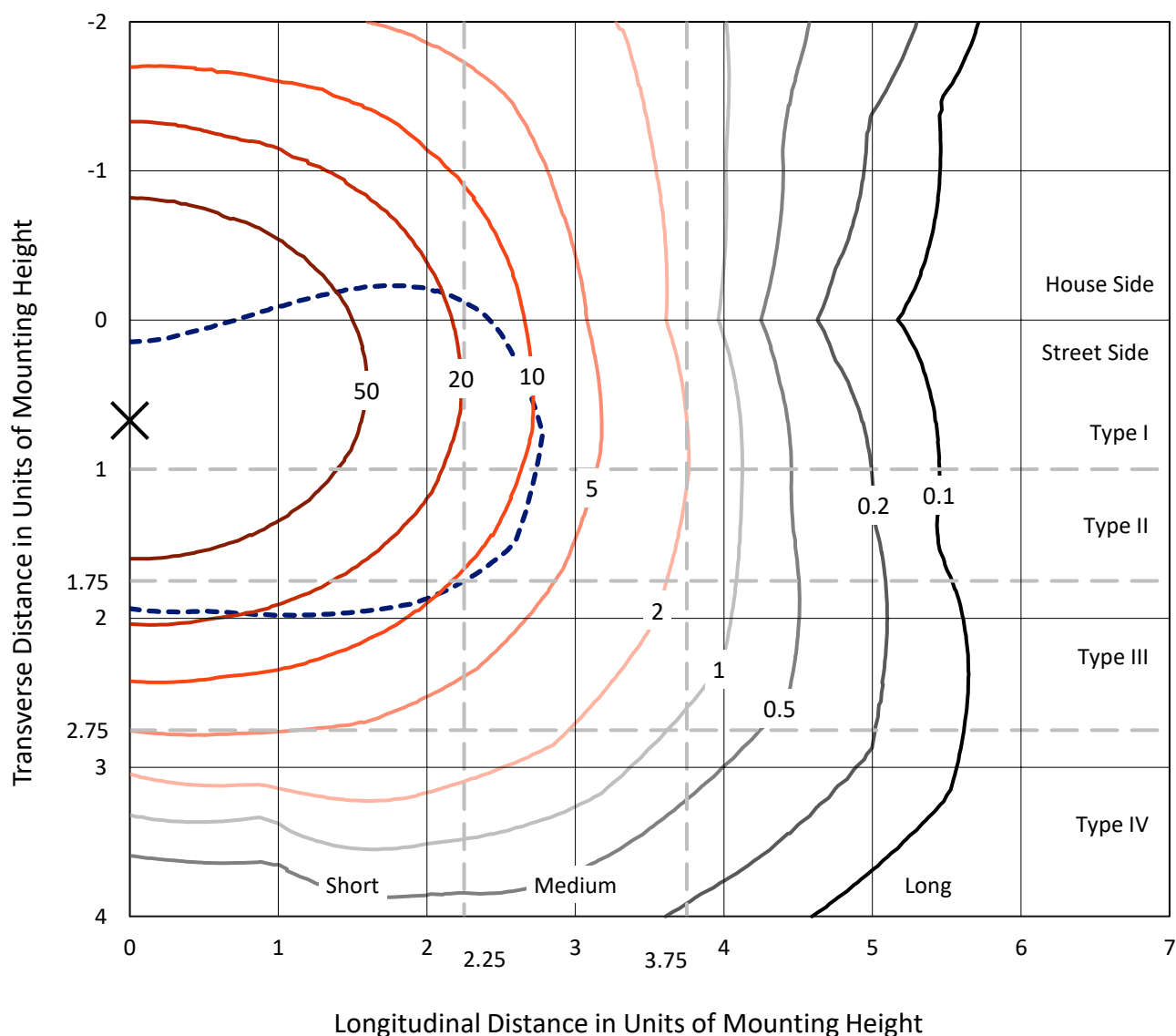
Input Watts (W): 73.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

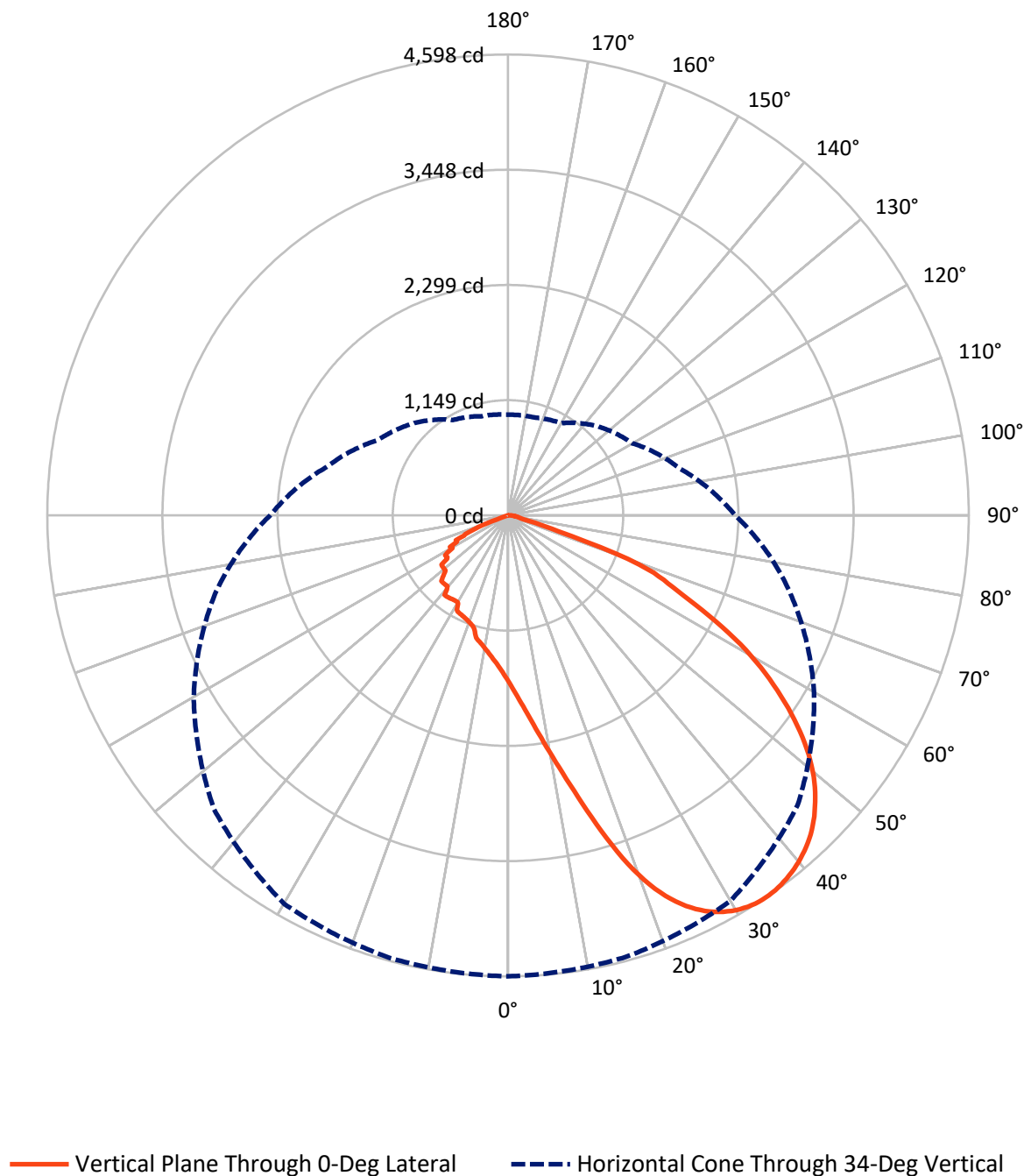


Based on 3 foot mounting height. Maximum calculated value = 360.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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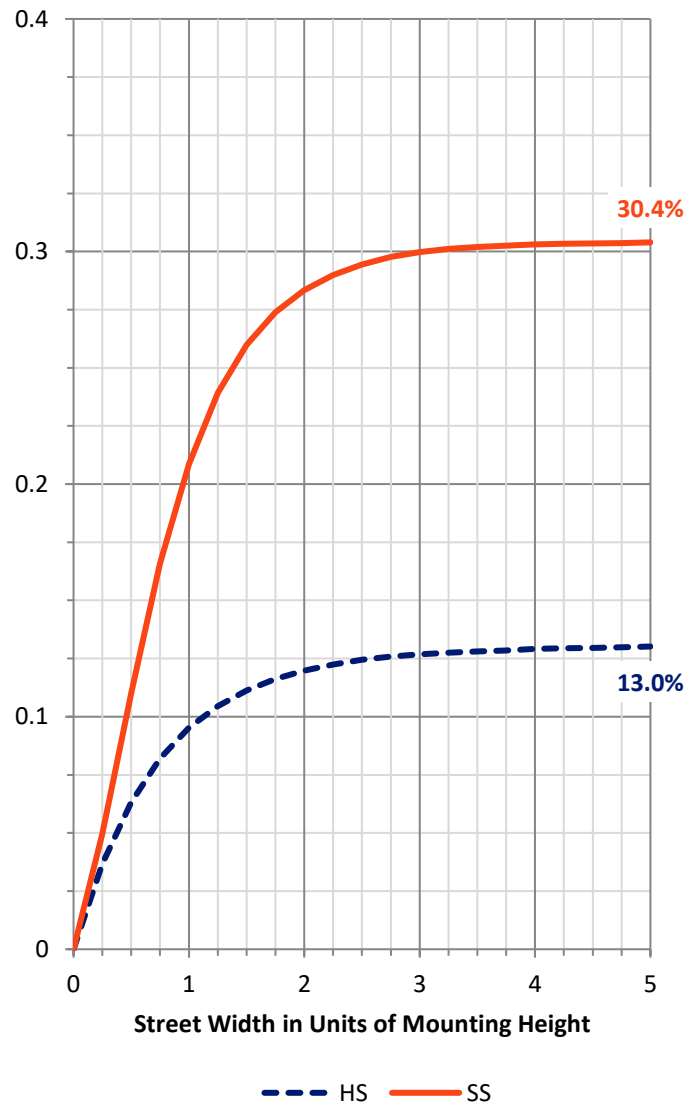
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3196.1	0.0	3196.1
	% Lamp	13.1	0.0	13.1
Street Side	Lumens	7431.1	0.0	7431.1
	% Lamp	30.4	0.0	30.4
Total	Lumens	10627.2	0.0	10627.2
	% Lamp	43.5	0.0	43.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	166.9	1.6	0.7
10°-20°	579.8	5.5	2.4
20°-30°	1124.9	10.6	4.6
30°-40°	1653.8	15.6	6.8
40°-50°	2052.2	19.3	8.4
50°-60°	2186.6	20.6	9.0
60°-70°	1900.9	17.9	7.8
70°-80°	879.4	8.3	3.6
80°-90°	82.6	0.8	0.3
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°	10627.2	100.0	43.5
0°-180°	10627.2	100.0	43.5

Coefficient of Utilization



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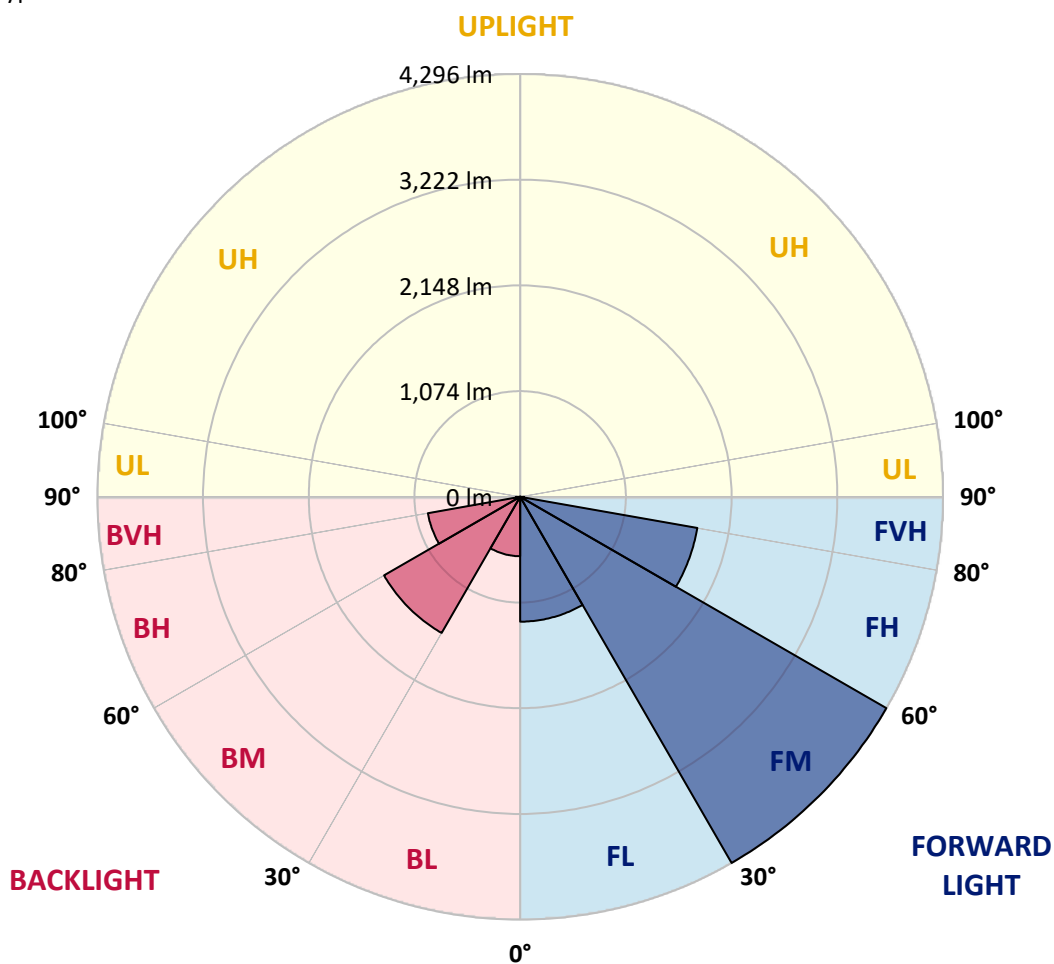
CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3-HSS)

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1268.3	5.2			
FM	(30°-60°)	4296.1	17.6			
FH	(60°-80°)	1827.9	7.5			G2/5000
FVH	(80°-90°)	38.8	0.2			G1/100
BL	(0°-30°)	603.4	2.5	B2/1000		
BM	(30°-60°)	1596.5	6.5	B2/2500		
BH	(60°-80°)	952.4	3.9	B2/1000		G2/1000
BVH	(80°-90°)	43.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		13779.8	56.5			

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1
1°	1722.2	1721.2	1717.0	1709.2	1698.7	1686.5	1664.4	1652.9	1642.6	1634.4	1628.4
2°	1778.7	1776.3	1765.2	1748.2	1725.6	1700.1	1665.1	1641.5	1620.5	1603.8	1590.8
3°	1840.2	1834.0	1816.7	1789.5	1755.5	1716.8	1667.8	1632.6	1601.2	1575.7	1556.9
4°	1907.8	1898.7	1874.0	1835.5	1787.2	1734.6	1671.8	1625.0	1583.8	1550.2	1526.3
5°	1981.5	1969.9	1935.4	1885.2	1821.6	1754.3	1677.3	1618.4	1568.1	1527.6	1499.2
6°	2062.5	2045.7	2003.3	1939.3	1860.3	1775.9	1683.9	1613.6	1553.6	1507.6	1474.3
7°	2148.1	2127.8	2075.6	1997.1	1900.6	1799.9	1693.1	1611.2	1541.8	1489.1	1450.8
8°	2241.8	2218.2	2154.4	2059.0	1944.3	1825.6	1704.0	1610.3	1531.7	1472.3	1429.9
9°	2343.9	2315.6	2238.2	2125.8	1990.8	1853.3	1716.0	1610.2	1523.8	1457.0	1410.1
10°	2450.5	2416.4	2328.0	2195.2	2040.2	1883.5	1729.8	1611.8	1516.3	1443.9	1391.5
11°	2566.3	2527.2	2423.5	2270.2	2092.5	1915.4	1745.0	1614.6	1510.2	1431.9	1374.7
12°	2692.0	2646.0	2524.4	2350.7	2147.1	1949.0	1761.2	1618.5	1505.7	1421.0	1359.7
13°	2825.7	2771.8	2633.7	2434.6	2205.5	1984.7	1778.3	1623.0	1501.7	1410.8	1345.8
14°	2971.1	2911.1	2751.0	2523.7	2266.4	2021.5	1795.4	1627.7	1498.2	1401.6	1332.8
15°	3126.7	3056.7	2875.3	2618.5	2330.3	2059.4	1814.3	1633.2	1495.5	1393.2	1319.7
16°	3287.1	3208.0	3004.1	2719.2	2397.1	2098.7	1834.3	1639.8	1493.5	1385.2	1307.9
17°	3445.0	3358.1	3130.6	2822.8	2467.7	2139.6	1854.9	1646.8	1492.0	1377.9	1296.0
18°	3602.4	3505.5	3257.8	2924.7	2542.1	2182.0	1875.8	1652.9	1490.9	1371.1	1277.7
19°	3748.5	3647.5	3383.1	3025.4	2618.5	2226.0	1890.4	1654.3	1487.9	1365.0	1235.0
20°	3882.4	3778.8	3504.8	3125.8	2694.8	2267.7	1908.7	1658.5	1481.1	1358.9	1204.6
21°	4002.4	3899.0	3619.3	3222.7	2772.3	2305.6	1927.2	1667.8	1475.9	1352.1	1196.5
22°	4106.9	4006.8	3727.0	3316.2	2848.0	2350.5	1951.4	1677.6	1476.8	1328.0	1189.2
23°	4199.3	4104.5	3825.4	3406.4	2923.1	2394.0	1977.1	1686.4	1477.7	1297.2	1182.9
24°	4280.0	4190.3	3918.4	3490.7	2989.1	2444.4	2001.1	1691.7	1475.7	1272.6	1178.2
25°	4349.9	4265.5	4002.3	3572.1	3052.7	2496.9	2021.3	1699.0	1473.7	1268.6	1173.7
26°	4409.0	4330.4	4078.8	3646.8	3115.4	2548.4	2042.6	1706.2	1472.4	1263.8	1170.0
27°	4458.6	4386.8	4149.6	3720.2	3175.8	2598.9	2066.4	1717.6	1475.3	1257.3	1166.1
28°	4499.5	4433.4	4211.0	3789.0	3232.2	2643.7	2090.9	1729.0	1479.7	1252.7	1162.5
29°	4533.5	4471.2	4264.9	3852.1	3287.4	2686.0	2119.7	1740.4	1483.4	1252.6	1159.7
30°	4559.2	4502.6	4312.6	3912.0	3343.6	2730.2	2148.5	1752.6	1478.4	1253.6	1157.0
31°	4579.2	4526.5	4353.7	3966.5	3395.5	2774.8	2178.6	1765.2	1456.4	1255.2	1151.7
32°	4591.4	4544.0	4387.6	4011.5	3444.3	2817.4	2208.3	1776.1	1451.7	1256.7	1144.6
33°	4597.5	4554.4	4416.8	4051.5	3488.6	2862.0	2238.3	1779.4	1434.3	1258.1	1099.9
34°	4597.9	4558.8	4439.5	4087.6	3527.3	2905.7	2267.3	1783.0	1436.2	1258.2	1061.5
35°	4592.7	4558.3	4456.4	4121.9	3561.8	2947.3	2288.6	1791.8	1439.1	1257.2	1059.2
36°	4582.7	4553.1	4466.4	4152.0	3594.2	2987.1	2306.2	1801.9	1442.8	1256.7	1060.1
37°	4567.5	4543.1	4471.2	4177.1	3625.8	3025.2	2326.4	1812.7	1449.2	1258.4	1060.8
38°	4548.3	4528.3	4471.7	4196.4	3656.7	3063.1	2351.4	1824.9	1453.2	1258.9	1060.1
39°	4524.8	4510.4	4466.9	4212.4	3684.1	3097.4	2373.8	1838.0	1454.2	1198.8	1059.4
40°	4497.8	4488.2	4456.0	4225.0	3710.5	3126.0	2397.9	1847.5	1460.5	1171.2	1062.0
41°	4465.6	4461.2	4441.6	4234.8	3733.4	3146.4	2421.1	1856.2	1470.1	1175.2	1064.6
42°	4428.6	4431.2	4422.0	4243.2	3757.7	3166.1	2444.9	1863.8	1479.7	1180.8	1067.5
43°	4386.3	4395.9	4397.7	4245.8	3780.6	3186.4	2467.2	1868.0	1489.9	1187.2	1068.6
44°	4338.7	4356.7	4369.4	4242.9	3801.1	3208.6	2485.9	1880.9	1500.8	1194.1	1034.2

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CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	4284.9	4311.7	4335.6	4234.0	3819.4	3230.0	2500.7	1898.8	1512.2	1200.0	987.4
46°	4223.2	4260.9	4298.3	4220.1	3836.4	3251.1	2514.1	1917.2	1517.0	1199.9	988.6
47°	4158.3	4202.7	4256.3	4200.1	3851.0	3271.2	2522.6	1936.3	1516.4	1203.0	991.5
48°	4089.9	4140.2	4209.2	4175.0	3862.0	3287.8	2528.9	1956.2	1521.6	1210.1	992.9
49°	4012.3	4068.4	4156.2	4146.3	3868.3	3304.2	2542.0	1973.2	1495.3	1214.5	991.6
50°	3926.1	3991.2	4095.9	4112.1	3868.6	3319.4	2560.2	1976.8	1471.9	1176.0	991.8
51°	3832.9	3905.0	4027.5	4071.0	3861.4	3329.2	2578.4	1964.0	1450.2	1128.9	993.4
52°	3732.6	3811.3	3953.0	4023.5	3851.3	3334.3	2594.9	1975.8	1461.0	1132.5	948.8
53°	3625.8	3709.5	3870.2	3971.2	3835.2	3336.6	2609.4	1979.7	1470.7	1139.6	900.8
54°	3511.0	3598.8	3781.5	3911.2	3814.0	3336.1	2622.3	1977.6	1476.0	1149.1	905.4
55°	3393.9	3484.8	3685.4	3844.8	3785.8	3327.0	2632.8	1989.4	1484.2	1154.3	911.8
56°	3267.3	3365.1	3581.3	3772.7	3754.1	3311.0	2635.0	1997.1	1497.6	1158.1	919.2
57°	3141.4	3239.8	3474.4	3692.9	3717.6	3290.4	2632.4	1997.0	1508.4	1156.5	926.2
58°	3010.3	3111.1	3362.2	3606.4	3674.1	3271.5	2621.9	2003.9	1513.2	1094.5	930.0
59°	2873.6	2980.5	3244.3	3516.3	3623.2	3251.5	2612.0	2010.4	1523.3	1079.8	856.4
60°	2727.5	2844.0	3123.4	3418.0	3563.1	3226.9	2602.7	2005.5	1482.1	1094.6	862.5
61°	2571.5	2699.8	2996.8	3315.6	3494.7	3196.6	2586.3	1988.2	1458.7	1112.2	865.0
62°	2408.4	2549.8	2869.1	3206.8	3422.1	3158.0	2567.8	1982.9	1468.2	1131.0	840.0
63°	2237.4	2393.0	2739.4	3093.0	3340.6	3110.4	2542.3	1968.7	1475.4	1145.3	815.0
64°	2072.0	2238.4	2609.8	2976.9	3249.6	3054.3	2507.1	1946.0	1480.8	1091.9	809.6
65°	1921.9	2084.2	2475.3	2857.2	3151.9	2987.7	2464.2	1919.8	1473.6	1097.6	818.7
66°	1790.1	1944.6	2344.0	2735.7	3047.5	2910.3	2407.8	1880.8	1433.3	1111.6	770.8
67°	1681.7	1817.4	2213.6	2615.0	2935.8	2820.2	2348.3	1839.6	1388.8	1102.5	759.6
68°	1565.3	1705.8	2086.6	2491.2	2809.9	2719.4	2259.3	1779.2	1399.6	1075.3	778.9
69°	1394.4	1588.2	1967.2	2370.5	2676.8	2598.4	2124.5	1707.2	1406.1	1082.7	712.6
70°	1143.9	1432.9	1855.8	2248.5	2540.4	2448.5	1929.5	1610.3	1408.9	1053.7	709.3
71°	814.3	1216.0	1744.2	2127.2	2385.9	2270.8	1705.8	1483.8	1380.3	1056.1	613.9
72°	518.3	920.8	1618.6	2001.3	2214.3	2062.1	1514.0	1343.1	1328.0	1050.1	592.0
73°	398.9	609.5	1468.0	1871.7	2022.6	1835.6	1331.8	1219.8	1275.8	1034.5	549.2
74°	283.2	370.5	1264.6	1725.5	1819.2	1605.5	1077.8	1128.8	1219.1	1043.3	497.7
75°	167.5	273.0	982.4	1538.5	1597.7	1357.8	823.8	954.9	1154.4	1021.6	479.3
76°	147.8	178.4	685.7	1307.6	1369.4	1049.3	569.6	781.0	1097.4	993.7	467.2
77°	132.2	153.2	447.3	1021.7	1132.3	690.4	311.1	606.7	1050.1	898.7	440.9
78°	119.5	135.3	349.7	681.9	879.0	397.1	162.3	350.1	912.9	803.7	397.7
79°	108.2	120.8	256.5	371.9	611.4	275.5	132.7	256.5	775.8	707.7	337.7
80°	98.0	108.3	163.3	256.7	382.2	154.8	103.2	162.8	636.5	577.4	289.3
81°	88.6	97.1	138.1	146.4	250.9	130.7	74.0	70.7	353.4	432.0	261.4
82°	79.8	86.7	119.8	125.2	122.0	111.7	62.5	54.9	259.0	344.2	260.4
83°	71.4	76.9	103.7	109.3	94.7	90.6	52.0	42.4	164.6	272.7	213.9
84°	63.3	67.8	87.7	94.9	77.0	68.7	42.2	33.2	70.6	194.7	159.1
85°	55.5	59.3	70.9	81.3	61.3	52.5	32.7	25.6	62.0	144.1	112.4
86°	47.8	51.2	57.8	68.1	47.8	40.6	24.0	19.4	49.6	93.5	66.0
87°	41.1	43.5	46.8	53.6	37.3	30.6	18.4	15.1	36.8	43.4	40.5
88°	34.5	37.1	38.3	41.2	27.0	20.6	12.8	10.7	27.9	29.5	27.6
89°	27.9	30.6	29.9	28.8	16.6	12.1	7.3	6.3	19.0	15.7	14.7

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CATALOG NUMBER: XAS180-SFPM (5000K-72W-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: P1445033

CATALOG NUMBER: XAS180-SFPM (5000K-72W-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: P1445033
CATALOG NUMBER: XAS180-SFPM (5000K-72W-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: P1445033

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1	1670.1
1°	1625.6	1625.7	1628.0	1634.1	1642.1	1652.4	1663.6	1667.1	1680.4	1692.8	1703.7
2°	1584.4	1583.3	1588.1	1598.4	1613.5	1632.4	1655.0	1670.8	1697.1	1722.6	1745.1
3°	1547.0	1544.5	1550.7	1565.2	1587.3	1615.2	1648.0	1676.7	1715.7	1753.7	1788.0
4°	1513.1	1510.5	1517.4	1535.2	1563.2	1599.9	1643.1	1683.6	1736.1	1787.6	1835.6
5°	1483.2	1479.4	1487.2	1508.6	1541.6	1586.4	1639.8	1692.3	1758.6	1825.1	1886.8
6°	1454.8	1450.2	1459.6	1484.2	1522.9	1574.2	1637.6	1702.4	1783.2	1866.1	1942.6
7°	1428.9	1423.2	1433.6	1461.3	1505.3	1564.3	1637.3	1715.0	1809.5	1909.1	2002.4
8°	1404.9	1398.1	1409.7	1440.8	1489.7	1555.5	1638.3	1727.6	1837.9	1954.9	2066.5
9°	1382.2	1374.3	1387.3	1421.6	1475.8	1548.3	1640.2	1742.1	1868.9	2004.1	2135.6
10°	1361.0	1352.5	1366.8	1404.1	1462.6	1542.0	1643.0	1758.1	1901.0	2056.1	2207.7
11°	1341.4	1331.9	1347.6	1388.3	1451.6	1536.8	1647.3	1776.3	1936.3	2111.5	2285.3
12°	1323.5	1313.4	1329.3	1373.3	1441.6	1532.8	1653.0	1795.2	1971.9	2170.4	2367.6
13°	1307.2	1295.7	1313.0	1359.7	1432.6	1530.2	1659.8	1815.4	2010.2	2232.0	2455.8
14°	1291.5	1278.6	1297.4	1346.9	1425.0	1528.5	1667.2	1836.1	2049.7	2296.2	2549.3
15°	1276.1	1262.0	1282.1	1334.8	1418.0	1528.1	1675.1	1858.2	2091.1	2366.1	2649.6
16°	1258.3	1224.7	1265.0	1323.2	1411.2	1528.2	1683.2	1881.3	2134.2	2437.9	2755.1
17°	1210.0	1182.9	1219.1	1311.8	1405.0	1528.5	1693.0	1904.5	2179.2	2514.8	2861.4
18°	1175.9	1161.1	1184.1	1294.0	1399.7	1529.5	1702.8	1928.7	2225.8	2594.3	2969.2
19°	1163.5	1148.4	1171.0	1254.7	1394.4	1529.6	1706.7	1949.5	2273.8	2675.0	3077.9
20°	1152.8	1137.0	1160.2	1225.3	1389.1	1524.8	1713.5	1968.6	2324.2	2756.9	3183.3
21°	1143.3	1127.5	1150.6	1214.3	1383.0	1521.6	1723.4	1990.4	2369.9	2839.8	3284.5
22°	1135.7	1118.8	1143.0	1207.7	1359.3	1523.9	1736.1	2016.9	2416.4	2922.9	3380.3
23°	1129.2	1111.6	1136.9	1202.0	1330.9	1527.1	1748.8	2045.6	2469.3	3002.4	3469.1
24°	1123.0	1104.9	1131.2	1197.6	1310.1	1530.4	1759.8	2075.0	2522.0	3080.8	3553.9
25°	1117.6	1098.4	1125.8	1193.9	1304.4	1529.5	1767.6	2102.8	2579.1	3148.7	3633.1
26°	1112.0	1093.1	1121.2	1190.9	1302.1	1529.4	1777.7	2126.4	2636.5	3210.9	3708.5
27°	1107.5	1088.7	1117.0	1188.4	1296.7	1530.3	1787.3	2152.8	2694.4	3272.5	3779.5
28°	1103.7	1085.0	1113.5	1185.8	1292.8	1535.5	1801.2	2180.3	2748.6	3331.6	3847.1
29°	1099.9	1068.8	1109.8	1183.8	1292.4	1540.5	1815.5	2211.0	2796.3	3384.4	3908.7
30°	1070.0	1010.7	1084.7	1182.3	1294.5	1536.6	1830.0	2243.0	2844.4	3438.3	3967.2
31°	1019.6	999.5	1033.4	1177.4	1297.0	1524.3	1844.2	2275.2	2892.3	3490.0	4021.7
32°	1011.2	999.8	1024.2	1171.9	1300.3	1512.4	1857.9	2307.9	2937.3	3538.8	4071.0
33°	1010.5	1001.1	1023.7	1138.5	1303.5	1500.7	1864.0	2340.2	2981.6	3582.5	4112.2
34°	1011.0	1003.6	1024.2	1098.3	1306.7	1501.2	1870.1	2372.9	3026.2	3621.4	4147.5
35°	1011.9	1006.9	1025.5	1092.8	1307.2	1504.8	1880.4	2400.7	3068.7	3655.0	4178.5
36°	1013.4	1009.8	1027.5	1094.3	1307.5	1509.2	1891.9	2422.1	3108.5	3686.1	4207.8
37°	1014.0	1012.3	1028.8	1096.4	1307.8	1515.0	1904.8	2445.1	3146.2	3716.8	4233.3
38°	1014.2	1014.6	1029.7	1096.1	1308.0	1521.5	1919.2	2470.7	3182.2	3746.6	4254.5
39°	1013.9	1014.7	1030.4	1095.7	1258.9	1524.3	1934.7	2495.5	3216.2	3773.0	4269.7
40°	1011.8	959.0	1029.2	1097.9	1230.1	1529.1	1949.3	2521.6	3245.8	3797.3	4282.6
41°	954.6	930.3	979.1	1101.5	1230.6	1539.7	1959.4	2546.6	3267.3	3820.3	4290.5
42°	923.0	930.8	942.1	1105.1	1236.1	1550.9	1967.2	2570.8	3285.0	3843.5	4294.9
43°	922.5	932.3	941.7	1107.7	1242.4	1562.7	1972.2	2595.7	3303.4	3863.3	4295.2
44°	923.2	933.5	943.3	1084.3	1249.7	1574.9	1987.3	2619.3	3320.7	3881.5	4291.3

REPORT NUMBER: P1445033

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	924.4	933.5	945.1	1031.7	1256.7	1586.6	2006.3	2637.0	3339.1	3896.1	4280.3
46°	925.4	932.1	946.6	1029.1	1258.4	1592.9	2026.0	2650.2	3357.4	3909.0	4262.2
47°	926.0	898.6	947.8	1032.4	1260.2	1593.7	2045.9	2658.5	3372.9	3919.0	4237.2
48°	895.3	865.1	947.7	1034.1	1268.5	1600.0	2065.5	2663.0	3386.9	3924.5	4208.6
49°	864.6	832.1	892.2	1032.4	1273.4	1595.5	2084.4	2674.8	3396.9	3926.1	4174.5
50°	834.1	830.2	852.2	1032.3	1247.5	1559.9	2096.3	2689.8	3404.4	3919.6	4137.1
51°	837.3	829.3	854.9	1034.4	1190.8	1538.7	2086.9	2703.2	3408.4	3904.6	4093.9
52°	841.7	829.5	859.2	1000.7	1191.5	1546.1	2080.9	2715.3	3407.7	3885.6	4044.5
53°	846.5	829.2	863.7	944.1	1200.3	1557.2	2088.5	2724.7	3401.4	3861.2	3989.1
54°	850.4	825.4	843.3	948.9	1211.6	1562.7	2085.5	2730.9	3390.9	3832.0	3925.6
55°	852.1	747.3	823.0	956.2	1218.2	1566.3	2084.0	2735.0	3371.6	3798.3	3858.3
56°	778.3	735.1	802.7	964.8	1223.8	1580.6	2086.6	2730.5	3342.7	3761.1	3783.8
57°	764.6	738.4	786.0	973.7	1222.9	1591.3	2082.2	2717.4	3311.3	3720.0	3705.3
58°	768.0	742.2	789.6	980.0	1170.2	1594.6	2082.4	2697.7	3279.0	3670.1	3619.8
59°	773.0	709.5	794.1	908.4	1152.5	1601.3	2083.4	2678.5	3247.9	3615.6	3528.8
60°	716.9	644.7	743.9	909.4	1168.6	1567.1	2071.2	2657.4	3212.2	3552.6	3429.7
61°	683.4	651.8	708.0	914.5	1186.5	1528.7	2045.3	2630.8	3168.9	3482.0	3323.8
62°	691.7	658.5	717.1	924.2	1204.8	1529.7	2033.2	2599.6	3119.6	3404.5	3216.2
63°	700.2	576.6	724.7	867.9	1219.5	1530.4	2017.3	2563.3	3063.2	3316.6	3102.5
64°	609.5	569.1	631.3	860.7	1166.6	1530.6	1987.6	2514.6	2998.4	3224.4	2987.2
65°	615.3	576.1	634.1	844.4	1167.8	1520.7	1957.0	2453.7	2923.3	3123.4	2866.0
66°	619.5	481.2	642.2	828.1	1175.1	1483.6	1912.0	2385.6	2833.9	3017.9	2740.9
67°	513.0	465.6	532.5	812.7	1167.1	1426.5	1861.1	2303.6	2737.3	2901.8	2617.0
68°	521.7	359.4	538.6	830.4	1136.9	1430.1	1786.3	2181.1	2621.3	2774.7	2491.0
69°	417.2	324.2	433.4	763.8	1135.1	1429.8	1689.4	2006.2	2483.3	2637.9	2370.0
70°	398.4	221.9	409.1	756.2	1107.8	1426.5	1563.4	1775.2	2312.0	2486.2	2241.1
71°	263.8	119.6	264.7	658.9	1095.6	1392.5	1417.8	1556.7	2107.0	2317.1	2108.3
72°	163.7	18.2	154.9	636.8	1087.9	1330.0	1275.0	1362.8	1875.5	2129.3	1973.3
73°	135.1	0.2	123.2	577.8	1064.8	1265.7	1143.8	1158.8	1636.8	1923.1	1827.2
74°	122.0	0.2	113.6	513.9	1062.7	1201.9	981.9	927.9	1400.9	1701.1	1666.4
75°	100.2	0.2	97.3	483.3	1008.5	1133.3	819.9	641.6	1147.4	1459.2	1467.3
76°	78.3	0.2	80.9	466.5	925.2	1056.4	657.3	372.9	836.1	1218.5	1230.3
77°	56.7	0.2	64.6	439.4	842.0	925.9	405.0	247.2	513.1	989.3	941.8
78°	42.2	0.2	52.1	395.8	758.6	795.5	211.3	123.2	388.3	748.3	620.2
79°	41.7	0.2	52.1	335.0	656.5	662.1	141.8	96.3	267.5	499.5	459.1
80°	56.8	0.2	63.6	292.2	541.8	401.1	74.0	81.4	146.7	371.7	302.1
81°	70.0	0.3	66.8	272.5	409.9	289.6	58.6	69.4	125.6	245.3	145.1
82°	63.1	0.3	41.1	256.4	316.5	178.0	47.6	58.2	107.3	118.8	125.1
83°	39.2	0.3	29.0	213.5	225.4	68.0	38.4	48.0	87.6	93.0	109.8
84°	21.3	0.4	16.8	153.3	162.6	57.5	30.6	39.1	68.1	75.7	95.3
85°	15.9	0.4	4.8	93.0	99.7	45.7	23.9	30.1	52.0	60.0	81.4
86°	10.5	0.5	4.2	34.3	38.3	33.7	18.2	21.2	41.3	46.4	67.9
87°	5.1	0.5	4.2	23.8	19.7	24.1	13.8	14.0	30.6	36.3	53.0
88°	3.5	0.6	3.7	13.3	13.6	16.7	9.4	8.1	19.9	26.3	40.7
89°	2.5	0.6	2.0	3.0	7.6	9.3	5.0	5.6	11.6	16.2	28.5

REPORT NUMBER: P1445033

CATALOG NUMBER: XAS180-SFPM (5000K-72W-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: P1445033

CATALOG NUMBER: XAS180-SFPM (5000K-72W-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: P1445033
CATALOG NUMBER: XAS180-SFPM (5000K-72W-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: P1445033

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1670.1	1670.1	1670.1
1°	1712.8	1719.2	1722.2
2°	1762.2	1774.3	1778.7
3°	1815.5	1833.5	1840.2
4°	1874.5	1899.7	1907.8
5°	1937.0	1970.5	1981.5
6°	2006.4	2048.5	2062.5
7°	2080.4	2130.4	2148.1
8°	2159.1	2220.2	2241.8
9°	2244.4	2317.9	2343.9
10°	2334.9	2421.1	2450.5
11°	2434.3	2533.7	2566.3
12°	2538.8	2653.9	2692.0
13°	2652.2	2784.3	2825.7
14°	2771.2	2921.8	2971.1
15°	2898.9	3067.9	3126.7
16°	3027.2	3216.5	3287.1
17°	3159.0	3369.7	3445.0
18°	3291.0	3520.8	3602.4
19°	3417.9	3663.2	3748.5
20°	3539.6	3796.9	3882.4
21°	3654.4	3919.4	4002.4
22°	3760.6	4027.4	4106.9
23°	3861.8	4125.9	4199.3
24°	3956.2	4210.3	4280.0
25°	4041.7	4284.3	4349.9
26°	4119.2	4346.6	4409.0
27°	4189.1	4400.7	4458.6
28°	4251.0	4446.0	4499.5
29°	4304.7	4483.0	4533.5
30°	4351.7	4513.0	4559.2
31°	4391.6	4536.5	4579.2
32°	4424.2	4554.0	4591.4
33°	4450.3	4564.0	4597.5
34°	4471.7	4568.3	4597.9
35°	4486.9	4567.0	4592.7
36°	4496.1	4560.5	4582.7
37°	4499.5	4549.6	4567.5
38°	4498.2	4534.4	4548.3
39°	4491.3	4515.2	4524.8
40°	4479.5	4492.6	4497.8
41°	4463.8	4466.4	4465.6
42°	4443.4	4436.4	4428.6
43°	4417.7	4402.4	4386.3
44°	4387.2	4362.8	4338.7

REPORT NUMBER: P1445033

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	4353.8	4319.0	4284.9
46°	4316.2	4269.8	4223.2
47°	4273.3	4212.6	4158.3
48°	4226.9	4152.8	4089.9
49°	4173.7	4083.2	4012.3
50°	4114.5	4008.4	3926.1
51°	4047.1	3924.7	3832.9
52°	3972.1	3832.2	3732.6
53°	3888.7	3732.2	3625.8
54°	3799.7	3624.6	3511.0
55°	3705.5	3511.5	3393.9
56°	3602.0	3389.4	3267.3
57°	3494.9	3260.6	3141.4
58°	3382.3	3132.6	3010.3
59°	3264.4	2999.9	2873.6
60°	3141.1	2863.4	2727.5
61°	3015.0	2718.1	2571.5
62°	2886.8	2570.6	2408.4
63°	2759.2	2416.6	2237.4
64°	2633.1	2263.5	2072.0
65°	2504.7	2111.0	1921.9
66°	2375.3	1972.5	1790.1
67°	2246.3	1845.7	1681.7
68°	2119.0	1735.7	1565.3
69°	1998.1	1617.8	1394.4
70°	1884.5	1470.5	1143.9
71°	1767.3	1267.7	814.3
72°	1637.5	982.5	518.3
73°	1481.8	666.0	398.9
74°	1270.6	406.7	283.2
75°	995.7	296.4	167.5
76°	708.7	186.6	147.8
77°	474.9	158.6	132.2
78°	370.8	139.6	119.5
79°	269.6	124.2	108.2
80°	168.4	111.0	98.0
81°	140.6	99.3	88.6
82°	121.2	88.8	79.8
83°	104.3	78.8	71.4
84°	88.2	69.6	63.3
85°	71.4	60.6	55.5
86°	58.1	52.3	47.8
87°	46.9	44.2	41.1
88°	38.4	37.5	34.5
89°	30.0	30.8	27.9

REPORT NUMBER: P1445033

CATALOG NUMBER: XAS180-SFPM (5000K-72W-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: P1445033

CATALOG NUMBER: XAS180-SFPM (5000K-72W-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: P1445033

CATALOG NUMBER: XAS180-SFPM (5000K-72W-T3-HSS)

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0

(END OF REPORT)