

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: LUMARK

Report Number: P1197232

Luminaire Tested: AWPS150S-BZ-BZ-HIGH-3000K-POSITION 30

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (LDS)
Test Lab: INNOVATION CENTER
Issue Date: 10/30/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: AWPS150S-BZ-BZ-HIGH-3000K-POSITION 30
Description: AWP Architectural
Light Source: 80 CRI, 3000K
Ballast/Driver: -

Summary

Lumens per Lamp: 19110 (1 lamp)
Luminaire Lumens: 19273 lumens
Efficiency: 100.9%
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.4' x L: 0.56' x H: 0.69')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U5 - G5

Input Watts (W): 148.7
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

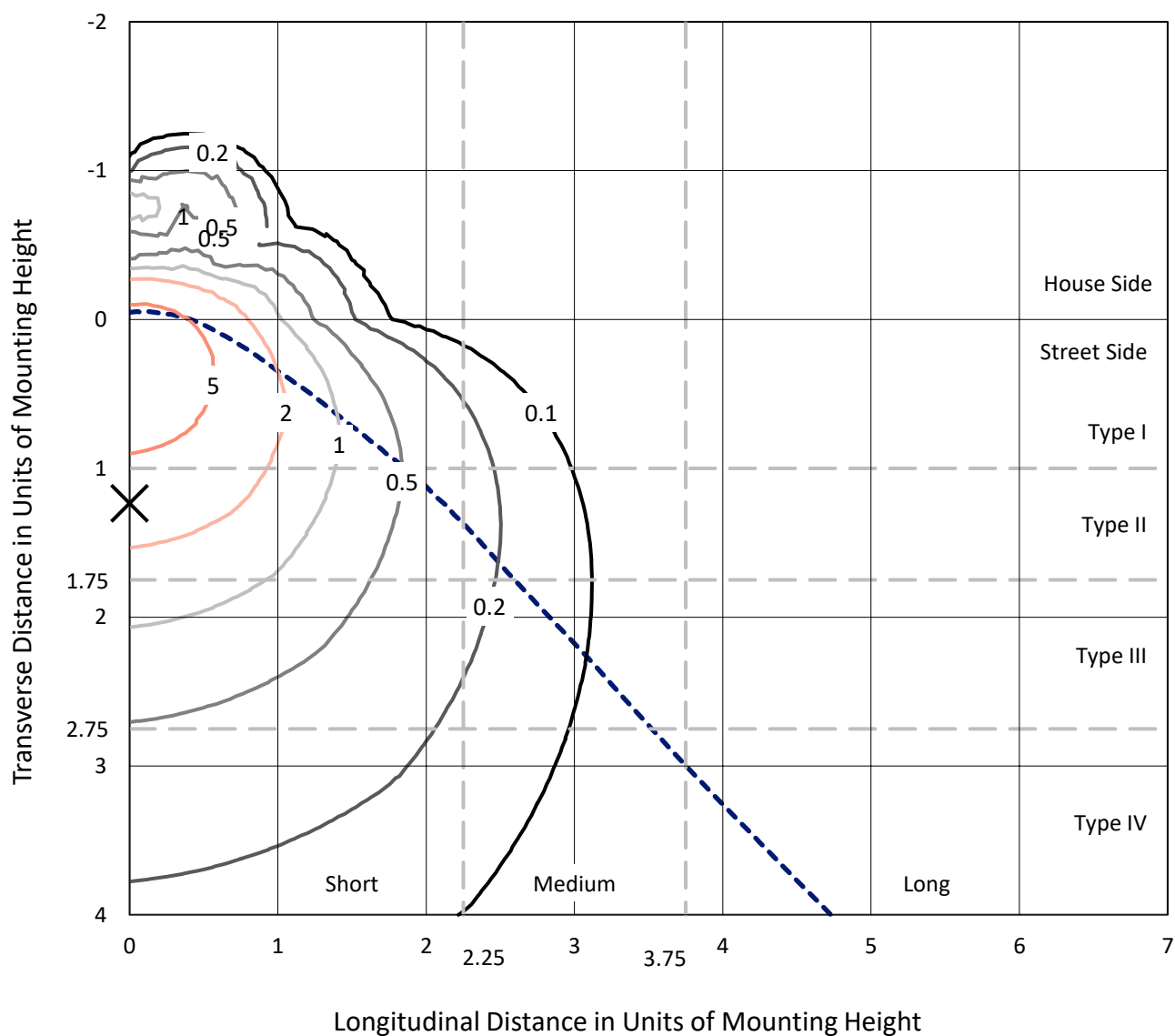
REPORT NUMBER: P1197232

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-3000K-POSITION 30

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

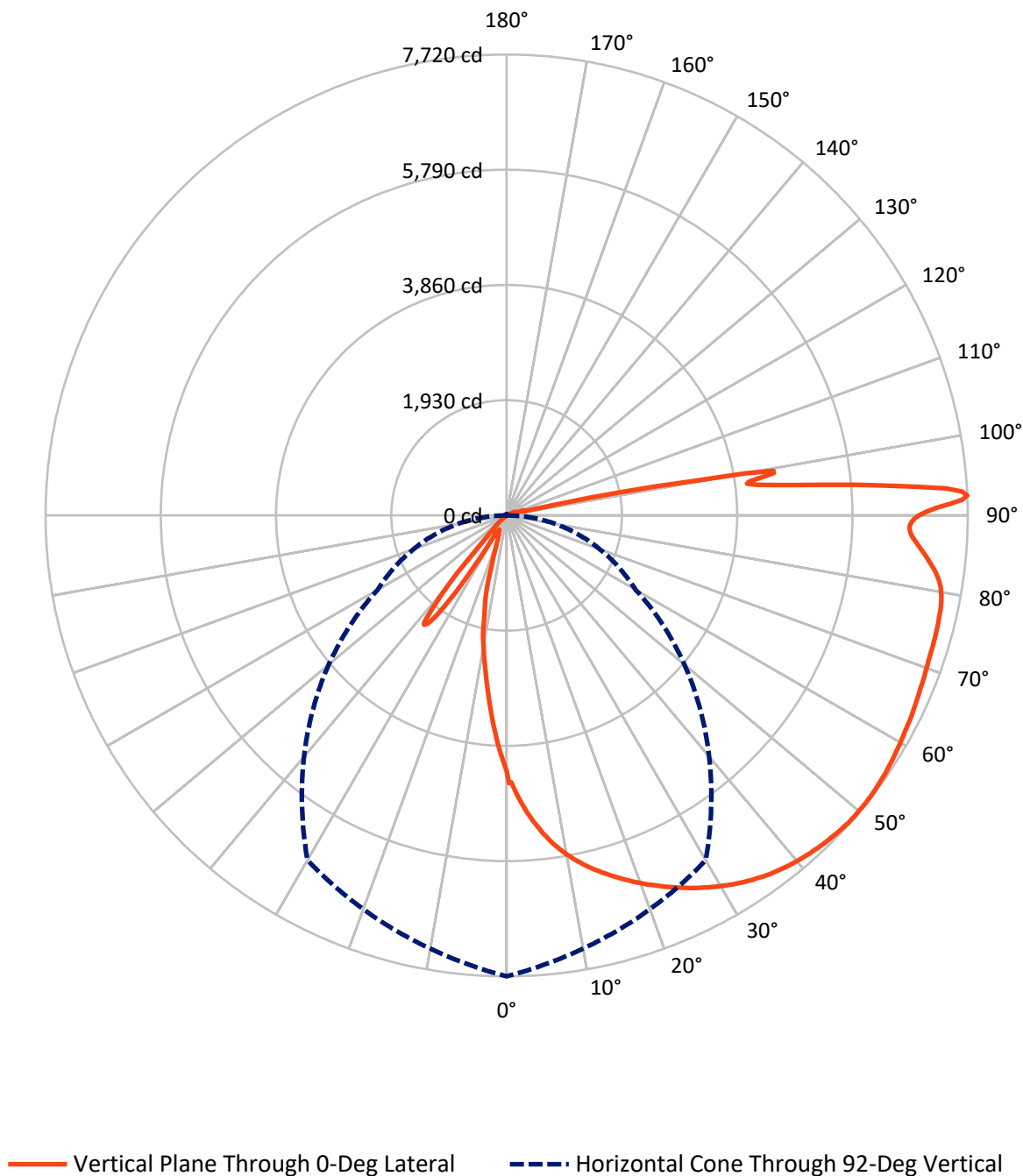


Based on 25 foot mounting height. Maximum calculated value = 9 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P1197232

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-3000K-POSITION 30

Luminous Intensity Polar Plot



REPORT NUMBER: P1197232

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-3000K-POSITION 30

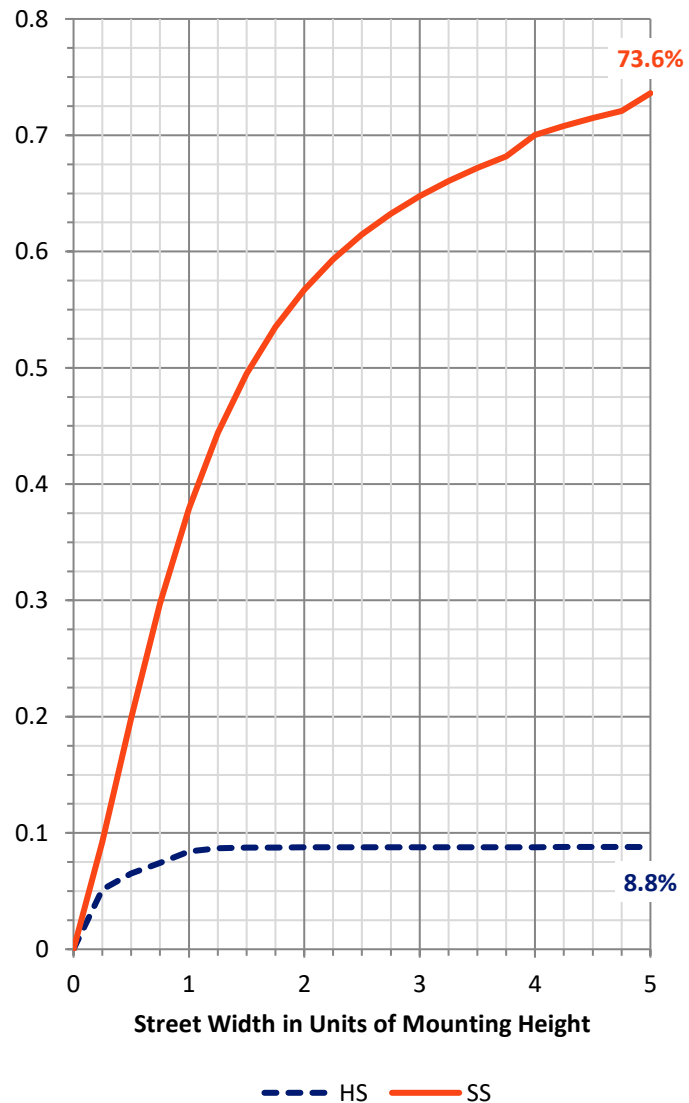
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1698.0	48.9	1746.9
	% Lamp	8.9	0.3	9.1
Street Side	Lumens	15756.0	1770.1	17526.1
	% Lamp	82.4	9.3	91.7
Total	Lumens	17454.0	1819.0	19273.0
	% Lamp	91.3	9.5	100.9

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	414.7	2.2	2.2
10°-20°	1122.8	5.8	5.9
20°-30°	1642.4	8.5	8.6
30°-40°	2152.4	11.2	11.3
40°-50°	2539.3	13.2	13.3
50°-60°	2503.4	13.0	13.1
60°-70°	2468.7	12.8	12.9
70°-80°	2387.1	12.4	12.5
80°-90°	2223.1	11.5	11.6
90°-100°	1634.0	8.5	8.6
100°-110°	125.8	0.7	0.7
110°-120°	24.1	0.1	0.1
120°-130°	8.9	0.0	0.0
130°-140°	8.2	0.0	0.0
140°-150°	7.2	0.0	0.0
150°-160°	5.7	0.0	0.0
160°-170°	3.7	0.0	0.0
170°-180°	1.3	0.0	0.0
0°-90°	17454.0	90.6	91.3
0°-180°	19273.0	100.0	100.9

Coefficient of Utilization



REPORT NUMBER: P1197232

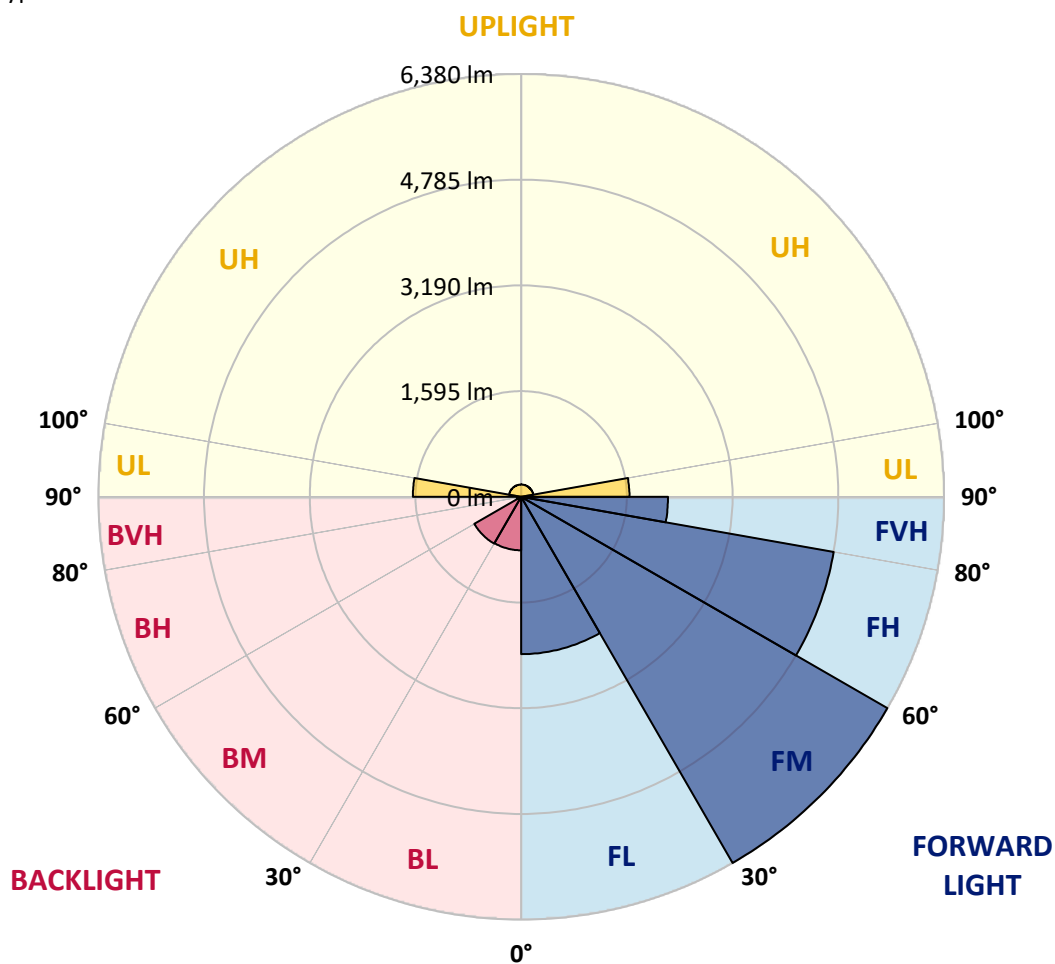
CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-3000K-POSITION 30

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2373.2	12.4			
FM	(30°-60°)	6379.6	33.4			
FH	(60°-80°)	4788.1	25.1			G2/5000
FVH	(80°-90°)	2215.1	11.6			G5
BL	(0°-30°)	806.8	4.2	B2/1000		
BM	(30°-60°)	815.6	4.3	B1/1000		
BH	(60°-80°)	67.6	0.4	B0/110		G0/110
BVH	(80°-90°)	8.1	0.0			G0/10
UL	(90°-100°)	1634.0	8.6		U5	
UH	(100°-180°)	185.0	1.0		U3/500	
Trapped Light		-163.0	-0.9			

BUG Rating: B2-U5-G5

Type IV Short



REPORT NUMBER: P1197232

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-3000K-POSITION 30

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	4482.1	4482.1	4482.1	4482.1	4482.1	4482.1	4482.1
0.5°	4471.6	4556.8	4554.6	4542.1	4486.6	4373.6	4278.6
1°	4567.8	4632.6	4598.9	4540.9	4437.7	4286.6	4171.7
1.5°	4659.4	4712.9	4644.2	4539.5	4388.7	4201.5	4070.7
2°	4743.2	4787.7	4687.7	4537.4	4337.9	4111.7	3971.4
2.5°	4829.2	4857.9	4730.3	4533.8	4285.4	4021.4	3861.7
3°	4913.0	4931.1	4770.8	4530.6	4232.3	3929.9	3755.2
3.5°	4992.2	4998.3	4808.9	4525.8	4178.1	3833.2	3646.7
4°	5068.3	5062.0	4847.4	4520.5	4122.5	3740.0	3533.2
4.5°	5147.1	5125.8	4884.8	4515.1	4065.5	3643.0	3418.6
5°	5209.3	5188.4	4919.3	4509.1	4010.5	3546.4	3310.8
5.5°	5282.2	5245.2	4954.9	4501.2	3952.8	3447.7	3198.9
6°	5352.5	5305.1	4988.1	4493.7	3891.8	3346.0	3086.9
6.5°	5415.6	5361.7	5021.3	4484.9	3832.8	3249.4	2982.5
7°	5478.1	5416.5	5053.5	4475.4	3770.4	3151.3	2878.3
7.5°	5541.1	5467.0	5083.0	4466.5	3709.2	3054.4	2771.9
8°	5597.3	5518.7	5112.5	4456.2	3646.5	2957.7	2679.4
8.5°	5653.7	5566.6	5140.5	4444.3	3581.8	2863.6	2587.1
9°	5706.5	5613.1	5166.7	4433.1	3519.5	2774.4	2494.8
9.5°	5759.7	5658.6	5193.6	4419.6	3454.3	2689.5	2402.6
10°	5808.0	5702.5	5218.8	4406.9	3386.5	2604.8	2310.2
10.5°	5857.5	5743.6	5242.6	4393.1	3323.3	2520.0	2222.7
11°	5904.3	5784.1	5265.6	4378.2	3255.3	2435.3	2139.6
11.5°	5948.6	5823.2	5288.6	4362.7	3187.4	2350.7	2065.1
12°	5991.8	5859.3	5308.8	4347.8	3120.5	2271.4	1957.4
12.5°	6033.6	5894.5	5328.9	4330.4	3054.3	2194.1	1827.7
13°	6074.6	5929.3	5347.5	4313.2	2984.6	2119.4	1723.1
13.5°	6115.1	5961.5	5364.7	4295.4	2917.7	2048.4	1629.8
14°	6152.4	5988.7	5381.6	4276.3	2852.2	1982.3	1548.4
14.5°	6191.9	6015.6	5398.2	4256.1	2783.8	1888.6	1472.8
15°	6227.3	6042.5	5413.2	4235.9	2716.9	1779.9	1388.5
15.5°	6266.9	6069.5	5428.7	4214.5	2652.6	1679.7	1291.1
16°	6303.4	6096.5	5442.7	4191.6	2585.1	1594.9	1175.5
16.5°	6339.9	6126.5	5454.6	4169.6	2521.3	1514.8	1043.9
17°	6377.0	6149.2	5465.0	4146.3	2458.3	1443.6	918.1
17.5°	6414.4	6175.7	5475.2	4121.3	2392.6	1368.1	804.8
18°	6448.0	6202.1	5485.3	4097.9	2329.7	1286.7	713.6
18.5°	6483.9	6227.7	5494.2	4073.5	2269.4	1191.1	634.1
19°	6518.9	6254.2	5501.8	4047.1	2207.1	1083.0	569.6
19.5°	6552.9	6280.5	5509.2	4021.6	2147.2	964.2	514.7
20°	6586.0	6305.6	5515.4	3994.5	2091.3	854.7	467.2
20.5°	6622.0	6331.8	5522.1	3966.6	2035.4	755.1	429.9
21°	6652.3	6356.7	5527.5	3937.7	1979.9	670.7	399.8
21.5°	6686.1	6380.0	5531.7	3908.6	1927.9	599.8	376.8
22°	6719.8	6404.0	5535.1	3878.8	1877.3	542.8	360.4

REPORT NUMBER: P1197232

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	6752.2	6426.7	5537.5	3849.2	1823.9	493.3	348.2
23°	6784.8	6450.0	5539.8	3819.4	1773.3	451.6	340.1
23.5°	6817.2	6471.9	5542.0	3788.2	1724.1	416.8	335.1
24°	6849.6	6495.3	5543.4	3756.3	1679.9	390.9	332.4
24.5°	6878.8	6516.4	5544.4	3726.1	1629.2	370.3	329.1
25°	6910.8	6538.6	5544.1	3693.2	1564.0	355.5	322.5
25.5°	6942.2	6560.1	5543.8	3659.2	1487.4	345.7	310.8
26°	6972.7	6581.5	5543.4	3626.1	1415.5	339.3	297.3
26.5°	7001.8	6602.6	5540.7	3590.9	1350.2	337.6	289.3
27°	7031.5	6621.3	5538.7	3554.5	1290.4	339.7	281.8
27.5°	7059.0	6639.1	5535.4	3520.0	1231.1	344.6	274.2
28°	7088.2	6658.6	5531.4	3482.8	1176.1	352.2	266.7
28.5°	7112.0	6677.8	5527.3	3444.0	1117.5	361.5	273.9
29°	7140.7	6696.9	5522.8	3406.6	1059.4	372.0	284.6
29.5°	7166.2	6714.3	5517.0	3368.2	998.7	382.8	298.3
30°	7193.7	6734.3	5510.9	3326.5	942.8	391.9	311.5
30.5°	7219.8	6751.9	5504.7	3286.7	885.4	396.5	318.1
31°	7245.0	6768.7	5497.4	3246.0	826.2	393.2	322.1
31.5°	7269.3	6785.5	5489.6	3203.9	766.2	383.6	346.1
32°	7293.6	6802.1	5480.4	3161.2	712.6	369.5	576.5
32.5°	7316.1	6817.9	5471.9	3119.8	670.6	354.0	817.9
33°	7339.7	6834.6	5463.2	3075.1	640.0	341.0	1059.4
33.5°	7361.8	6850.2	5454.1	3031.3	611.3	331.7	1300.8
34°	7381.3	6864.0	5444.3	2989.1	582.6	323.1	1542.4
34.5°	7400.8	6877.0	5433.9	2944.6	553.9	315.6	1721.2
35°	7420.8	6890.8	5424.8	2900.1	525.3	311.9	1892.1
35.5°	7439.5	6903.9	5413.3	2856.1	496.7	303.7	2039.5
36°	7456.6	6916.7	5401.9	2813.2	480.4	295.3	2157.6
36.5°	7473.9	6927.8	5390.2	2769.4	466.4	286.4	2233.4
37°	7489.8	6938.8	5378.6	2726.3	455.2	277.0	2265.2
37.5°	7503.2	6948.2	5367.2	2683.9	444.4	277.4	2292.0
38°	7519.1	6958.4	5355.6	2641.2	435.2	278.9	2274.0
38.5°	7533.0	6968.5	5343.2	2598.3	425.5	282.2	2177.4
39°	7545.8	6975.0	5330.1	2554.4	416.8	288.1	2007.7
39.5°	7559.2	6982.2	5317.9	2508.2	408.8	302.3	1852.2
40°	7570.1	6989.5	5304.0	2460.7	403.0	501.5	1691.1
40.5°	7581.4	6994.9	5291.0	2408.2	397.8	705.0	1500.7
41°	7592.9	7000.9	5276.8	2352.2	392.9	908.2	1279.8
41.5°	7604.7	7005.5	5261.7	2294.4	387.3	1111.5	1054.6
42°	7613.9	7009.8	5246.6	2236.5	381.8	1314.6	823.9
42.5°	7625.1	7011.7	5230.7	2174.9	375.8	1472.8	652.8
43°	7634.4	7015.2	5215.7	2112.3	370.1	1557.2	541.2
43.5°	7641.9	7016.9	5199.6	2049.5	364.2	1597.6	463.4
44°	7650.1	7018.6	5181.8	1989.4	357.9	1618.9	403.0
44.5°	7658.3	7018.4	5164.7	1931.0	351.3	1632.6	355.3

REPORT NUMBER: P1197232

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	7666.5	7020.0	5147.0	1874.6	343.9	1614.6	316.9
45.5°	7673.7	7019.0	5128.0	1815.5	336.2	1554.2	292.9
46°	7680.0	7019.6	5108.6	1758.6	328.6	1456.1	269.4
46.5°	7685.6	7017.8	5089.2	1703.9	321.1	1369.4	246.0
47°	7690.2	7015.7	5068.9	1649.5	313.8	1276.2	222.6
47.5°	7694.6	7012.8	5048.7	1595.6	306.8	1186.5	199.3
48°	7698.3	7009.9	5027.1	1544.6	299.3	1103.8	180.8
48.5°	7701.0	7005.8	5006.0	1491.8	291.6	1026.2	161.2
49°	7701.2	7001.2	4984.0	1444.2	283.8	951.9	141.5
49.5°	7701.6	6995.4	4962.3	1400.1	275.3	882.1	123.8
50°	7701.8	6989.8	4940.1	1356.6	266.9	803.8	105.3
50.5°	7702.1	6983.3	4914.8	1312.2	259.3	726.6	87.1
51°	7702.4	6977.5	4890.4	1272.5	251.5	654.0	67.7
51.5°	7700.5	6970.0	4864.2	1234.7	244.1	582.8	51.7
52°	7699.5	6964.0	4839.1	1198.1	236.9	519.1	39.7
52.5°	7694.8	6955.5	4812.1	1162.6	230.1	464.8	32.6
53°	7692.0	6947.7	4785.5	1127.2	220.5	413.8	29.8
53.5°	7685.5	6939.5	4757.3	1090.7	202.7	360.7	27.5
54°	7682.6	6931.5	4729.7	1050.4	188.0	304.5	25.1
54.5°	7678.7	6922.4	4701.2	1000.7	175.1	251.4	22.5
55°	7673.5	6915.3	4672.1	944.1	162.0	198.4	20.1
55.5°	7666.8	6906.3	4641.8	883.3	154.0	145.5	18.0
56°	7661.3	6896.9	4610.4	818.7	145.8	92.5	16.0
56.5°	7655.5	6886.1	4579.8	754.1	130.6	39.6	13.6
57°	7648.1	6877.5	4548.1	693.0	111.8	19.6	12.1
57.5°	7640.5	6867.1	4517.2	640.8	101.3	17.3	11.0
58°	7633.3	6855.5	4485.8	604.1	95.6	17.3	10.1
58.5°	7625.7	6845.5	4451.8	577.4	92.1	17.2	9.3
59°	7618.4	6832.8	4417.6	557.7	89.2	17.0	8.7
59.5°	7611.8	6821.0	4384.9	543.5	86.6	16.7	8.2
60°	7604.3	6806.8	4350.7	532.5	84.0	16.2	7.9
60.5°	7598.5	6794.0	4318.0	522.8	80.9	15.6	7.7
61°	7590.3	6780.2	4283.4	513.6	75.8	14.3	7.6
61.5°	7584.6	6767.4	4250.4	504.7	71.6	13.6	7.4
62°	7577.1	6751.1	4219.3	495.4	67.6	13.0	7.3
62.5°	7571.3	6734.4	4186.8	485.7	63.4	12.4	7.2
63°	7564.2	6718.7	4156.8	475.9	57.8	11.8	7.2
63.5°	7559.0	6702.7	4125.6	466.3	51.4	11.3	7.1
64°	7551.8	6683.9	4094.7	456.8	46.4	10.7	7.0
64.5°	7544.2	6666.8	4062.6	447.4	42.9	10.2	7.0
65°	7536.7	6649.4	4030.5	437.6	39.7	9.7	7.0
65.5°	7530.2	6630.5	3998.2	427.1	36.7	9.2	7.1
66°	7523.6	6611.0	3965.1	416.4	33.6	8.8	7.2
66.5°	7516.6	6596.2	3930.9	406.7	30.4	8.3	7.3
67°	7509.5	6578.9	3894.4	396.9	27.0	7.9	7.5

REPORT NUMBER: P1197232

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	7503.7	6561.0	3858.7	387.0	23.2	7.6	7.7
68°	7499.0	6545.8	3821.6	376.8	19.5	7.2	7.8
68.5°	7493.5	6530.7	3783.4	365.8	15.8	6.9	8.0
69°	7487.7	6515.0	3744.1	354.7	12.2	6.6	8.2
69.5°	7483.0	6501.5	3702.9	344.4	9.2	6.4	8.4
70°	7478.2	6487.9	3661.2	334.6	7.7	6.2	8.6
70.5°	7471.8	6474.3	3619.2	324.4	7.3	6.1	8.8
71°	7469.0	6464.3	3572.9	313.6	7.1	6.0	9.0
71.5°	7466.0	6453.5	3526.7	303.1	7.0	6.1	9.2
72°	7463.3	6443.8	3479.7	292.9	6.8	6.1	9.4
72.5°	7462.3	6434.3	3434.7	281.4	6.4	6.1	9.6
73°	7460.3	6427.4	3390.0	269.9	6.1	6.2	9.8
73.5°	7457.6	6420.4	3346.4	258.4	5.9	6.2	10.0
74°	7455.5	6412.8	3301.1	246.9	5.9	6.3	10.3
74.5°	7451.9	6405.7	3254.9	234.4	5.9	6.4	10.6
75°	7449.1	6396.4	3209.1	221.3	5.9	6.6	10.9
75.5°	7447.8	6390.2	3159.3	207.9	5.9	6.8	11.2
76°	7443.3	6385.1	3100.9	194.4	5.9	7.0	11.4
76.5°	7438.8	6380.8	3040.5	181.3	5.9	7.3	11.7
77°	7436.0	6377.2	2980.5	168.3	6.0	7.5	11.9
77.5°	7430.6	6376.6	2918.6	155.2	6.0	7.7	12.2
78°	7422.8	6374.2	2858.7	142.6	6.0	7.9	12.3
78.5°	7414.5	6368.3	2802.1	130.8	6.1	8.1	12.6
79°	7403.5	6359.4	2750.4	118.4	6.1	8.3	12.8
79.5°	7388.2	6350.1	2700.2	106.6	6.2	8.6	13.1
80°	7369.8	6343.7	2649.5	94.8	6.3	8.8	13.3
80.5°	7345.1	6337.1	2598.5	84.0	6.3	9.0	13.6
81°	7316.3	6331.0	2552.1	74.6	6.4	9.2	13.8
81.5°	7280.0	6324.2	2507.0	66.5	6.5	9.4	14.1
82°	7241.8	6316.4	2463.4	59.8	6.6	9.6	14.3
82.5°	7197.9	6311.2	2421.7	53.5	6.7	9.8	14.5
83°	7147.8	6303.5	2374.9	48.1	6.8	10.0	14.7
83.5°	7096.6	6294.7	2329.0	43.2	6.9	10.2	14.9
84°	7048.9	6286.3	2283.4	38.5	7.0	10.4	15.1
84.5°	6995.9	6276.5	2237.6	34.4	7.1	10.6	15.4
85°	6943.6	6261.6	2194.6	30.8	7.2	10.9	15.6
85.5°	6896.9	6250.1	2156.2	27.4	7.3	11.1	15.8
86°	6846.1	6245.7	2121.2	24.3	7.5	11.3	16.0
86.5°	6801.3	6261.7	2092.4	21.5	7.6	11.5	16.3
87°	6767.0	6298.6	2069.8	18.8	7.7	11.8	16.5
87.5°	6751.5	6356.8	2061.1	16.3	7.9	12.0	16.7
88°	6752.5	6444.4	2066.4	14.0	8.1	12.2	16.8
88.5°	6777.1	6575.9	2088.2	11.9	8.2	12.4	17.0
89°	6821.6	6724.2	2130.9	10.3	8.3	12.6	17.2
89.5°	6904.5	6899.3	2196.4	8.9	8.5	12.8	17.3

REPORT NUMBER: P1197232

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	7032.1	7061.9	2267.6	7.5	8.6	13.0	17.5
90.5°	7201.5	7177.7	2345.1	7.1	8.8	13.2	17.7
91°	7424.7	7179.8	2420.5	7.0	9.0	13.4	17.9
91.5°	7636.0	7035.0	2479.7	6.8	9.1	13.6	18.1
92°	7719.8	6666.7	2494.5	6.7	9.3	13.8	18.2
92.5°	7633.9	6120.8	2460.1	6.6	9.4	14.0	18.4
93°	7371.3	5467.2	2363.2	6.5	9.5	14.2	18.5
93.5°	6867.6	4872.4	2198.4	6.4	9.7	14.4	18.7
94°	6365.1	4388.2	1945.4	6.3	9.8	14.5	18.8
94.5°	5864.1	4061.3	1641.9	6.2	9.9	14.6	18.9
95°	5364.0	3822.2	1332.8	6.2	10.0	14.8	19.1
95.5°	4868.8	3730.2	1057.4	6.1	10.1	14.9	19.2
96°	4491.8	3840.3	860.8	6.0	10.3	15.1	19.3
96.5°	4213.6	4127.0	763.8	6.0	10.4	15.3	19.4
97°	4057.3	4402.8	666.8	5.9	10.5	15.4	19.5
97.5°	4107.2	4482.0	569.8	5.9	10.6	15.6	19.7
98°	4309.8	4125.4	472.9	5.8	10.8	15.8	19.8
98.5°	4530.6	3340.6	376.2	5.8	10.9	16.0	19.9
99°	4525.7	2409.8	361.2	5.7	11.0	16.2	20.1
99.5°	4067.0	1865.2	362.6	5.7	11.1	16.3	20.2
100°	3105.5	1341.2	347.9	5.6	11.3	16.5	20.3
100.5°	2535.7	817.3	332.2	5.6	11.4	16.7	20.4
101°	1965.9	293.3	312.2	5.5	11.5	16.8	20.4
101.5°	1401.3	270.9	278.6	5.5	11.5	17.0	20.5
102°	836.7	254.4	267.0	5.4	11.7	17.1	20.6
102.5°	287.4	237.8	253.9	5.4	11.7	17.2	20.6
103°	272.3	221.1	219.4	5.4	11.8	17.3	20.7
103.5°	271.0	225.2	132.1	5.4	11.9	17.4	20.7
104°	282.4	219.6	98.9	5.4	12.0	17.5	20.8
104.5°	294.4	204.9	83.7	5.4	12.1	17.6	20.8
105°	300.6	184.8	70.3	5.4	12.2	17.7	20.9
105.5°	294.3	165.8	59.8	5.4	12.3	17.9	20.9
106°	263.3	144.6	50.2	5.4	12.4	18.0	21.0
106.5°	233.4	129.1	41.9	5.4	12.5	18.1	21.0
107°	212.3	118.3	34.3	5.4	12.5	18.3	21.1
107.5°	190.7	110.9	27.7	5.4	12.6	18.4	21.2
108°	172.6	106.8	22.7	5.5	12.8	18.5	21.2
108.5°	162.1	104.1	18.5	5.5	12.9	18.6	21.3
109°	157.8	103.4	15.3	5.5	13.0	18.7	21.3
109.5°	157.8	106.5	13.6	5.6	13.0	18.8	21.4
110°	159.7	111.2	12.3	5.7	13.1	18.9	21.4
110.5°	160.0	115.0	11.1	5.8	13.2	18.9	21.4
111°	158.4	116.9	9.8	5.8	13.3	19.0	21.5
111.5°	156.5	116.0	8.6	5.9	13.4	19.1	21.5
112°	153.4	112.7	7.7	6.0	13.4	19.1	21.5

REPORT NUMBER: P1197232

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	146.0	108.1	6.9	6.1	13.5	19.2	21.5
113°	139.0	96.7	6.3	6.1	13.6	19.3	21.6
113.5°	129.6	75.3	5.8	6.2	13.7	19.3	21.6
114°	116.6	50.2	5.4	6.3	13.7	19.4	21.6
114.5°	100.6	27.7	4.9	6.4	13.8	19.5	21.7
115°	82.8	17.5	4.6	6.5	13.9	19.5	21.7
115.5°	66.9	13.5	4.3	6.6	14.0	19.6	21.7
116°	50.6	10.5	4.1	6.7	14.0	19.6	21.7
116.5°	31.8	7.7	3.9	6.7	14.1	19.7	21.7
117°	19.1	5.5	3.6	6.8	14.2	19.7	21.7
117.5°	13.6	4.0	3.3	6.9	14.2	19.8	21.8
118°	10.2	3.1	3.2	7.0	14.3	19.8	21.8
118.5°	7.4	2.5	3.0	7.1	14.4	19.8	21.8
119°	5.4	2.2	2.9	7.2	14.4	19.8	21.8
119.5°	4.2	2.0	2.7	7.3	14.5	19.9	21.8
120°	3.3	1.9	2.6	7.4	14.5	19.9	21.8
120.5°	2.7	1.8	2.5	7.4	14.6	19.9	21.8
121°	2.2	1.7	2.5	7.5	14.6	20.0	21.8
121.5°	2.0	1.7	2.5	7.6	14.7	20.0	21.8
122°	2.0	1.6	2.5	7.7	14.8	20.0	21.8
122.5°	1.9	1.6	2.5	7.8	14.8	20.1	21.8
123°	1.9	1.6	2.6	7.9	14.9	20.1	21.8
123.5°	1.8	1.6	2.6	8.0	14.9	20.1	21.8
124°	1.8	1.6	2.7	8.0	14.9	20.1	21.8
124.5°	1.7	1.6	2.7	8.1	15.0	20.2	21.8
125°	1.7	1.6	2.8	8.2	15.1	20.2	21.8
125.5°	1.7	1.5	2.9	8.3	15.1	20.2	21.8
126°	1.7	1.5	3.0	8.4	15.2	20.2	21.8
126.5°	1.7	1.5	3.0	8.5	15.2	20.2	21.8
127°	1.7	1.5	3.1	8.6	15.2	20.2	21.8
127.5°	1.7	1.4	3.2	8.7	15.3	20.2	21.8
128°	1.6	1.4	3.3	8.8	15.3	20.2	21.8
128.5°	1.6	1.4	3.4	8.8	15.4	20.2	21.8
129°	1.5	1.4	3.5	8.9	15.4	20.2	21.8
129.5°	1.4	1.4	3.6	9.0	15.5	20.2	21.7
130°	1.4	1.4	3.7	9.1	15.5	20.2	21.7
130.5°	1.3	1.4	3.8	9.2	15.6	20.2	21.7
131°	1.3	1.4	3.9	9.3	15.6	20.2	21.6
131.5°	1.3	1.4	4.0	9.4	15.7	20.2	21.6
132°	1.3	1.5	4.1	9.4	15.7	20.2	21.6
132.5°	1.3	1.5	4.2	9.5	15.8	20.2	21.5
133°	1.3	1.5	4.3	9.6	15.8	20.2	21.5
133.5°	1.3	1.5	4.4	9.7	15.8	20.2	21.4
134°	1.3	1.5	4.5	9.8	15.9	20.2	21.4
134.5°	1.3	1.6	4.6	9.9	15.9	20.2	21.4

REPORT NUMBER: P1197232

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	1.3	1.6	4.7	10.0	16.0	20.2	21.3
135.5°	1.3	1.7	4.8	10.0	16.0	20.2	21.3
136°	1.4	1.7	4.9	10.1	16.0	20.2	21.3
136.5°	1.4	1.8	5.0	10.2	16.1	20.2	21.2
137°	1.4	1.8	5.1	10.3	16.1	20.2	21.2
137.5°	1.5	1.9	5.2	10.4	16.2	20.2	21.2
138°	1.5	1.9	5.3	10.5	16.2	20.2	21.2
138.5°	1.5	2.0	5.5	10.6	16.2	20.2	21.2
139°	1.6	2.1	5.6	10.6	16.3	20.2	21.2
139.5°	1.6	2.1	5.7	10.7	16.3	20.2	21.2
140°	1.7	2.2	5.8	10.8	16.3	20.2	21.1
140.5°	1.7	2.3	5.9	10.9	16.4	20.1	21.1
141°	1.8	2.3	6.0	11.0	16.4	20.1	21.0
141.5°	1.8	2.4	6.1	11.0	16.4	20.1	20.9
142°	1.9	2.5	6.2	11.1	16.5	20.1	20.8
142.5°	1.9	2.6	6.3	11.2	16.5	20.1	20.8
143°	2.0	2.6	6.4	11.3	16.5	20.1	20.7
143.5°	2.0	2.7	6.6	11.4	16.5	20.0	20.6
144°	2.1	2.8	6.7	11.4	16.5	20.0	20.5
144.5°	2.1	2.9	6.8	11.5	16.5	19.9	20.4
145°	2.2	3.0	6.9	11.6	16.5	19.9	20.2
145.5°	2.2	3.1	7.0	11.6	16.5	19.8	20.2
146°	2.2	3.2	7.1	11.7	16.6	19.8	20.1
146.5°	2.3	3.3	7.2	11.8	16.6	19.8	20.0
147°	2.3	3.4	7.3	11.9	16.6	19.7	19.8
147.5°	2.4	3.5	7.4	11.9	16.6	19.7	19.7
148°	2.4	3.6	7.5	12.0	16.6	19.6	19.6
148.5°	2.5	3.7	7.6	12.1	16.6	19.5	19.5
149°	2.5	3.8	7.7	12.2	16.6	19.5	19.4
149.5°	2.6	3.9	7.8	12.2	16.7	19.5	19.3
150°	2.6	4.0	7.9	12.3	16.7	19.4	19.3
150.5°	2.7	4.1	8.1	12.3	16.7	19.4	19.2
151°	2.8	4.2	8.2	12.4	16.7	19.4	19.1
151.5°	2.9	4.3	8.3	12.5	16.7	19.3	19.0
152°	2.9	4.5	8.4	12.5	16.7	19.3	18.9
152.5°	3.0	4.6	8.5	12.6	16.8	19.3	18.8
153°	3.1	4.7	8.6	12.7	16.8	19.3	18.6
153.5°	3.2	4.8	8.7	12.7	16.8	19.2	18.5
154°	3.3	5.0	8.8	12.8	16.8	19.2	18.4
154.5°	3.4	5.1	9.0	12.9	16.8	19.2	18.3
155°	3.5	5.2	9.1	13.0	16.8	19.2	18.1
155.5°	3.6	5.4	9.2	13.0	16.8	19.1	18.0
156°	3.8	5.5	9.3	13.1	16.8	19.1	17.9
156.5°	3.9	5.6	9.4	13.2	16.8	19.0	17.7
157°	4.0	5.8	9.5	13.2	16.8	18.9	17.6

REPORT NUMBER: P1197232

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	4.1	5.9	9.7	13.3	16.8	18.9	17.5
158°	4.3	6.1	9.8	13.3	16.8	18.8	17.4
158.5°	4.4	6.2	9.9	13.4	16.8	18.7	17.3
159°	4.6	6.4	10.0	13.5	16.8	18.6	17.1
159.5°	4.7	6.5	10.1	13.5	16.8	18.6	17.0
160°	4.9	6.7	10.2	13.6	16.8	18.5	16.9
160.5°	5.0	6.9	10.3	13.6	16.8	18.4	16.7
161°	5.2	7.0	10.4	13.7	16.8	18.4	16.6
161.5°	5.3	7.2	10.5	13.7	16.7	18.3	16.4
162°	5.4	7.4	10.6	13.8	16.7	18.2	16.3
162.5°	5.6	7.5	10.8	13.9	16.7	18.1	16.1
163°	5.7	7.7	10.9	13.9	16.7	18.0	15.9
163.5°	5.8	7.8	11.0	13.9	16.7	17.9	15.7
164°	5.9	8.0	11.1	14.0	16.7	17.8	15.5
164.5°	6.0	8.1	11.2	14.0	16.6	17.8	15.4
165°	6.2	8.3	11.3	14.1	16.6	17.7	15.2
165.5°	6.3	8.4	11.4	14.1	16.6	17.6	15.0
166°	6.4	8.6	11.5	14.2	16.6	17.6	14.9
166.5°	6.5	8.7	11.6	14.3	16.6	17.5	14.8
167°	6.6	8.9	11.7	14.3	16.6	17.4	14.6
167.5°	6.7	9.0	11.8	14.4	16.6	17.3	14.5
168°	6.9	9.1	11.9	14.4	16.5	17.2	14.3
168.5°	7.0	9.3	12.0	14.5	16.5	17.2	14.1
169°	7.1	9.4	12.1	14.5	16.5	17.1	14.0
169.5°	7.3	9.6	12.2	14.6	16.5	17.0	13.8
170°	7.4	9.7	12.3	14.6	16.4	16.9	13.6
170.5°	7.5	9.8	12.4	14.6	16.4	16.8	13.5
171°	7.7	9.9	12.5	14.7	16.4	16.7	13.3
171.5°	7.8	10.1	12.6	14.7	16.3	16.6	13.1
172°	7.9	10.2	12.7	14.7	16.2	16.5	12.9
172.5°	8.0	10.3	12.8	14.8	16.2	16.4	12.7
173°	8.1	10.4	12.9	14.8	16.1	16.2	12.5
173.5°	8.2	10.6	13.0	14.8	16.1	16.1	12.3
174°	8.4	10.7	13.1	14.9	16.1	16.0	12.1
174.5°	8.5	10.8	13.1	14.9	16.0	15.9	12.0
175°	8.6	11.0	13.2	14.9	15.9	15.8	11.7
175.5°	8.8	11.1	13.3	14.9	15.9	15.7	11.6
176°	8.9	11.2	13.4	15.0	15.9	15.6	11.4
176.5°	9.0	11.3	13.5	15.0	15.8	15.5	11.2
177°	9.2	11.5	13.6	15.0	15.8	15.4	11.0
177.5°	9.3	11.6	13.7	15.0	15.7	15.3	10.9
178°	9.4	11.7	13.8	15.0	15.6	15.2	10.7
178.5°	9.6	11.9	13.8	15.1	15.6	15.1	10.6
179°	9.7	12.0	13.9	15.1	15.5	15.0	10.4
179.5°	9.9	12.1	14.0	15.1	15.4	14.9	10.2



REPORT NUMBER: P1197232
CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	10.1	10.1	10.1	10.1	10.1	10.1	10.1

(END OF REPORT)