

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: P1197117

Luminaire Tested: AWPf150S-BZ-BZ-MID-3000K-POSITION 15

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197117
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: AWP150S-BZ-BZ-MID-3000K-POSITION 15
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 3000K
Ballast/Driver: -

Summary

Lumens per Lamp: 19305 (1 lamp)
Luminaire Lumens: 16726.6 lumens
Efficiency: 86.6%
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.4' x L: 0.56' x H: 0.69')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U3 - G3

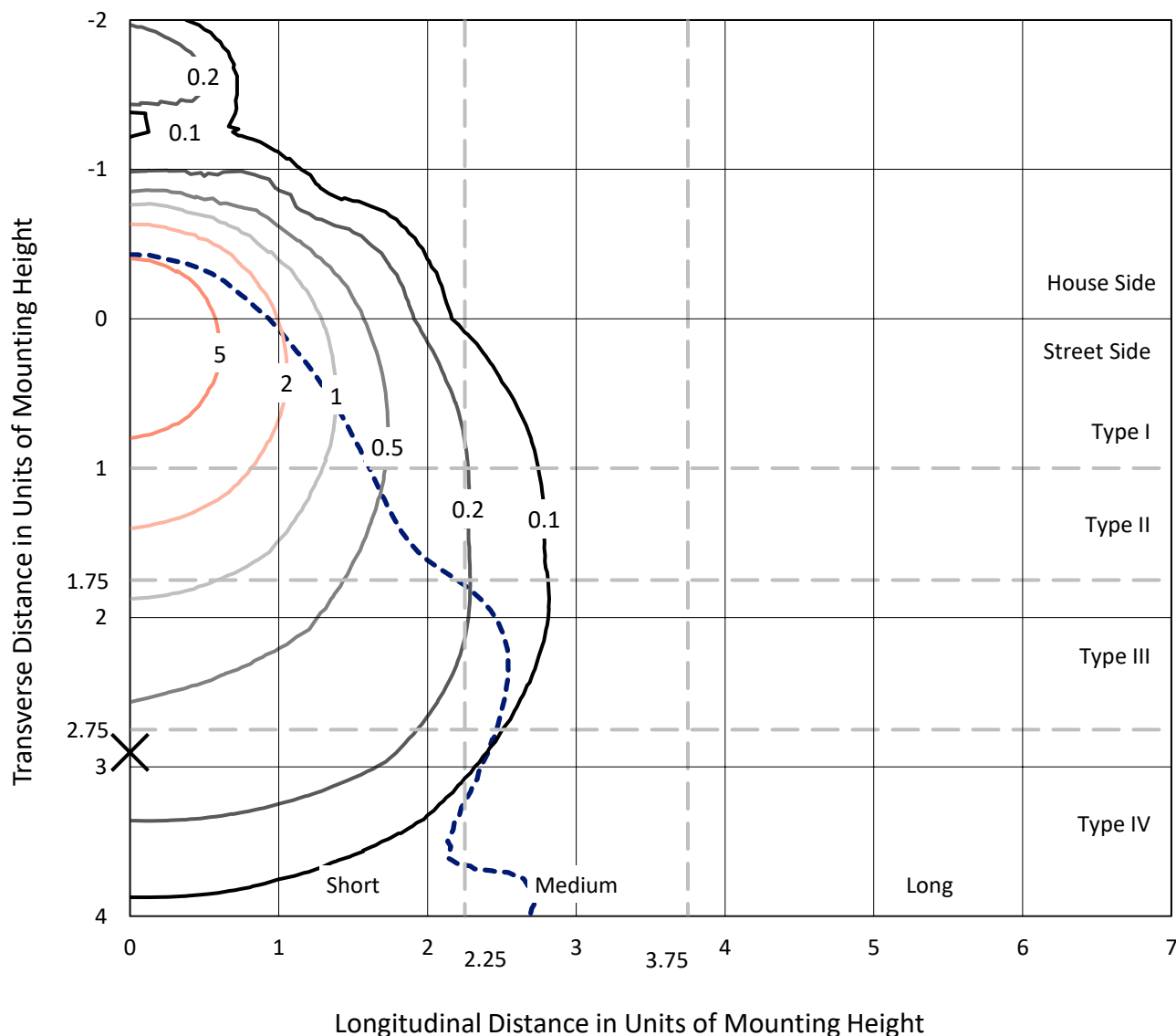
Input Watts (W): 125.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

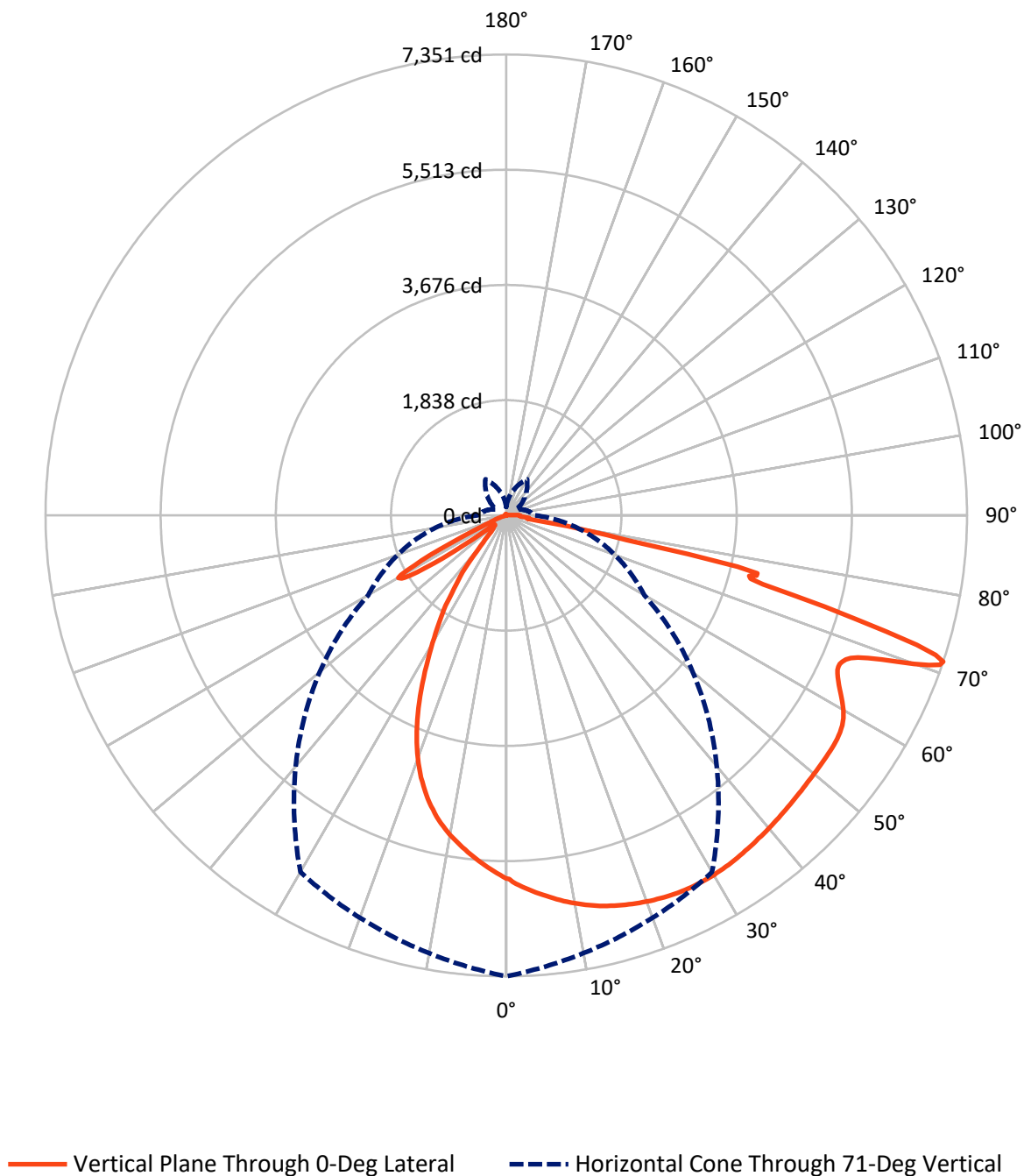


Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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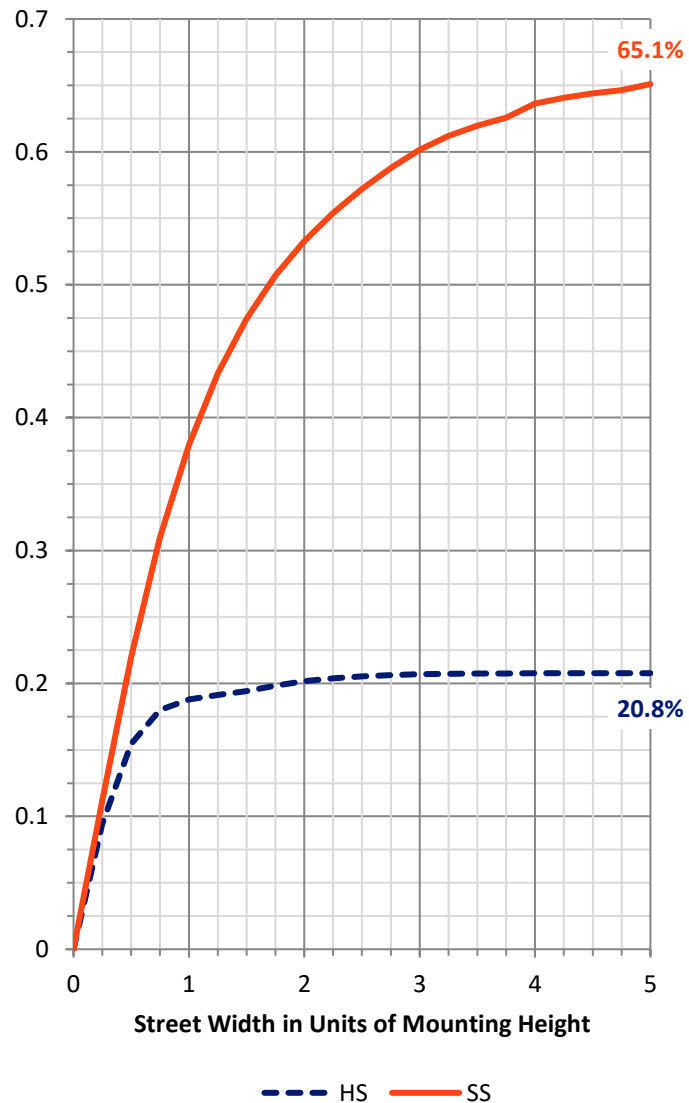
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4039.8	38.0	4077.8
	% Lamp	20.9	0.2	21.1
Street Side	Lumens	12596.3	52.6	12648.8
	% Lamp	65.2	0.3	65.5
Total	Lumens	16636.1	90.6	16726.6
	% Lamp	86.2	0.5	86.6

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	549.3	3.3	2.8
10°-20°	1572.4	9.4	8.1
20°-30°	2328.6	13.9	12.1
30°-40°	2651.1	15.8	13.7
40°-50°	2596.6	15.5	13.5
50°-60°	2512.8	15.0	13.0
60°-70°	2310.6	13.8	12.0
70°-80°	1766.8	10.6	9.2
80°-90°	347.9	2.1	1.8
90°-100°	40.4	0.2	0.2
100°-110°	6.0	0.0	0.0
110°-120°	7.1	0.0	0.0
120°-130°	8.1	0.0	0.0
130°-140°	8.5	0.1	0.0
140°-150°	7.9	0.0	0.0
150°-160°	6.6	0.0	0.0
160°-170°	4.4	0.0	0.0
170°-180°	1.6	0.0	0.0
0°-90°	16636.1	99.5	86.2
0°-180°	16726.6	100.0	86.6

Coefficient of Utilization



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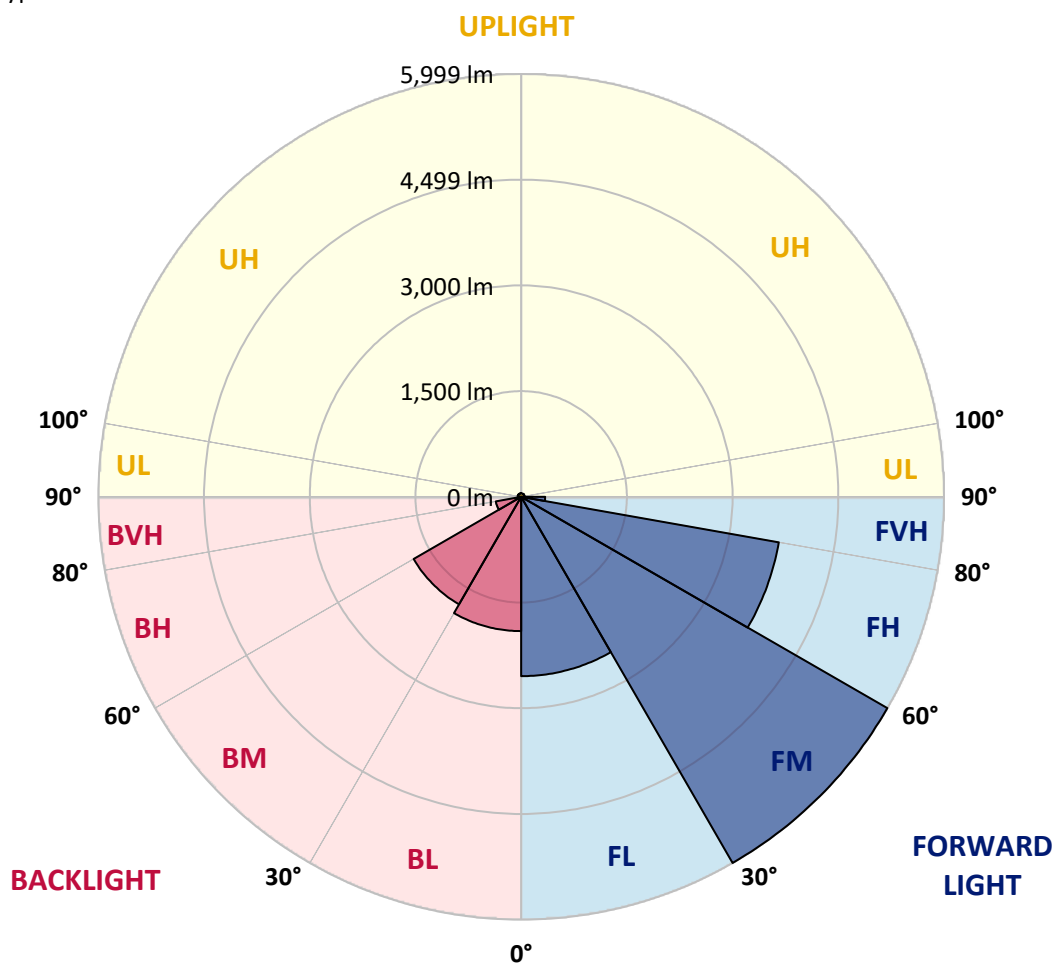
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2544.3	13.2			
FM	(30°-60°)	5999.0	31.1			
FH	(60°-80°)	3711.7	19.2			G2/5000
FVH	(80°-90°)	341.3	1.8			G3/500
BL	(0°-30°)	1906.0	9.9	B3/2500		
BM	(30°-60°)	1761.5	9.1	B2/2500		
BH	(60°-80°)	365.7	1.9	B1/500		G1/500
BVH	(80°-90°)	6.6	0.0			G0/10
UL	(90°-100°)	40.4	0.2		U2/50	
UH	(100°-180°)	50.2	0.3		U3/500	
Trapped Light		2578.4	13.4			

BUG Rating: B3-U3-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	5800.3	5800.3	5800.3	5800.3	5800.3	5800.3	5800.3
0.5°	5846.6	5845.4	5822.6	5798.6	5772.1	5741.7	5791.4
1°	5875.7	5867.4	5836.5	5797.8	5757.7	5716.5	5762.4
1.5°	5901.1	5889.5	5848.8	5795.4	5742.7	5691.6	5733.2
2°	5928.4	5911.7	5860.3	5793.7	5727.2	5665.4	5705.6
2.5°	5955.6	5934.3	5871.8	5791.3	5710.9	5641.2	5676.2
3°	5981.5	5956.1	5882.9	5788.1	5694.7	5616.6	5646.6
3.5°	6006.7	5977.6	5893.2	5784.3	5677.7	5590.4	5619.6
4°	6032.3	5998.0	5904.1	5780.2	5660.9	5564.0	5589.4
4.5°	6055.1	6019.7	5913.5	5775.5	5642.8	5538.0	5560.1
5°	6078.2	6038.1	5921.7	5768.6	5626.1	5510.8	5530.0
5.5°	6103.1	6056.7	5930.2	5762.8	5606.7	5482.3	5498.1
6°	6126.3	6074.5	5938.7	5755.7	5587.5	5454.5	5466.6
6.5°	6150.3	6093.7	5945.5	5748.6	5567.5	5425.3	5436.1
7°	6173.8	6112.1	5952.8	5739.1	5546.6	5395.2	5404.3
7.5°	6196.6	6130.6	5958.9	5731.0	5526.2	5367.5	5369.5
8°	6220.2	6147.8	5965.2	5722.0	5503.9	5336.3	5339.4
8.5°	6240.2	6165.4	5970.0	5713.0	5481.5	5304.2	5305.6
9°	6260.2	6182.4	5975.2	5702.3	5459.5	5274.7	5271.8
9.5°	6281.3	6197.6	5979.9	5691.2	5435.8	5242.9	5237.3
10°	6300.1	6212.6	5983.0	5678.8	5409.6	5212.2	5206.5
10.5°	6319.5	6227.1	5986.2	5666.4	5385.7	5180.3	5170.6
11°	6337.9	6241.5	5989.2	5653.7	5360.8	5147.5	5132.5
11.5°	6354.9	6253.9	5991.4	5640.6	5334.8	5113.0	5094.9
12°	6372.3	6266.9	5993.0	5627.5	5309.0	5077.9	5057.5
12.5°	6388.0	6279.2	5993.8	5612.3	5283.0	5041.9	5017.0
13°	6403.7	6290.2	5995.2	5597.4	5254.7	5005.4	4973.8
13.5°	6419.1	6299.8	5995.9	5580.9	5230.9	4967.3	4930.8
14°	6433.0	6311.5	5995.0	5564.9	5205.9	4928.1	4884.7
14.5°	6445.0	6321.5	5993.5	5547.6	5179.1	4887.2	4835.9
15°	6457.1	6330.0	5993.3	5528.5	5152.4	4843.8	4790.3
15.5°	6470.3	6338.6	5990.9	5510.5	5125.6	4800.3	4739.0
16°	6482.0	6347.3	5988.5	5491.3	5098.8	4755.4	4687.0
16.5°	6493.5	6353.7	5986.0	5471.8	5072.0	4706.7	4632.2
17°	6504.3	6360.9	5982.0	5452.3	5040.8	4659.0	4573.9
17.5°	6514.5	6366.6	5978.2	5431.5	5007.9	4608.9	4513.6
18°	6524.5	6372.7	5974.2	5410.4	4975.4	4556.5	4454.8
18.5°	6535.3	6377.6	5970.6	5390.4	4941.3	4504.6	4397.0
19°	6543.7	6383.0	5965.3	5368.5	4906.9	4449.6	4330.2
19.5°	6553.0	6386.8	5959.6	5346.6	4872.6	4393.7	4261.7
20°	6562.5	6390.0	5953.2	5324.5	4835.4	4336.0	4194.6
20.5°	6570.0	6394.5	5945.8	5301.5	4799.3	4277.6	4121.5
21°	6576.3	6398.7	5937.5	5276.7	4761.9	4211.5	4047.9
21.5°	6583.8	6400.2	5929.4	5253.4	4724.6	4148.2	3970.0
22°	6591.4	6401.7	5920.7	5231.4	4684.8	4082.6	3894.3

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	6596.8	6403.2	5912.7	5208.2	4644.4	4012.9	3810.2
23°	6602.3	6404.7	5902.9	5183.6	4604.3	3943.8	3726.3
23.5°	6608.6	6405.5	5893.2	5158.1	4562.7	3871.8	3640.1
24°	6613.4	6404.7	5882.7	5131.0	4520.5	3797.2	3556.2
24.5°	6617.2	6404.7	5872.1	5103.6	4475.4	3721.1	3466.3
25°	6621.0	6403.9	5860.1	5075.8	4430.0	3642.9	3374.5
25.5°	6624.1	6402.3	5848.2	5048.5	4383.9	3565.1	3283.0
26°	6624.6	6401.5	5836.2	5018.8	4336.2	3479.8	3190.2
26.5°	6624.9	6398.3	5822.7	4989.0	4288.0	3396.9	3094.7
27°	6625.3	6395.3	5809.9	4958.8	4238.9	3311.5	2996.0
27.5°	6625.6	6391.9	5796.1	4925.9	4185.9	3220.2	2900.2
28°	6626.1	6388.1	5781.3	4894.1	4134.2	3133.4	2806.0
28.5°	6626.4	6381.9	5766.0	4862.2	4080.9	3044.7	2711.0
29°	6624.0	6376.3	5750.8	4829.0	4024.6	2948.3	2619.8
29.5°	6622.4	6370.7	5734.7	4796.0	3967.7	2854.9	2527.4
30°	6618.4	6364.3	5718.4	4762.8	3910.6	2766.1	2435.5
30.5°	6615.9	6357.1	5699.7	4729.1	3852.0	2672.2	2350.2
31°	6611.3	6348.6	5680.8	4693.1	3793.8	2579.4	2269.8
31.5°	6608.9	6339.7	5662.9	4659.6	3731.9	2492.0	2189.5
32°	6604.2	6332.7	5642.9	4623.2	3669.9	2399.5	2109.2
32.5°	6600.2	6323.8	5624.8	4587.0	3606.3	2300.2	2028.9
33°	6593.9	6314.0	5603.2	4550.5	3541.2	2222.7	1948.6
33.5°	6588.4	6305.2	5581.5	4512.7	3473.7	2145.3	1876.5
34°	6583.5	6296.5	5560.5	4475.0	3405.4	2068.0	1809.5
34.5°	6578.0	6286.5	5536.9	4437.7	3334.4	1990.7	1728.3
35°	6570.8	6276.9	5512.6	4401.4	3262.0	1914.7	1613.2
35.5°	6564.6	6266.3	5489.7	4362.0	3187.6	1839.2	1515.2
36°	6559.1	6255.1	5465.6	4322.4	3112.9	1771.3	1430.7
36.5°	6553.4	6242.7	5439.2	4278.8	3033.8	1703.1	1356.1
37°	6546.4	6230.6	5413.0	4236.5	2956.6	1636.3	1289.2
37.5°	6539.5	6217.9	5389.3	4194.2	2877.8	1574.1	1222.0
38°	6533.8	6205.1	5362.7	4151.5	2796.6	1518.4	1145.0
38.5°	6528.2	6193.1	5333.9	4105.2	2713.7	1443.2	1053.3
39°	6522.5	6179.7	5307.3	4060.7	2629.8	1345.8	942.0
39.5°	6516.4	6167.2	5280.2	4015.8	2547.7	1258.6	832.5
40°	6510.8	6153.7	5251.9	3968.6	2464.8	1179.7	728.9
40.5°	6504.4	6140.2	5226.6	3921.1	2382.8	1111.0	641.7
41°	6498.0	6127.4	5201.5	3873.5	2301.4	1039.6	567.7
41.5°	6492.4	6113.6	5175.2	3824.3	2220.4	960.3	510.8
42°	6485.2	6099.1	5148.9	3773.8	2140.4	864.8	458.9
42.5°	6479.2	6084.3	5122.7	3723.2	2065.9	767.3	414.8
43°	6473.4	6069.6	5096.4	3672.2	1995.2	668.9	379.7
43.5°	6467.4	6054.4	5069.9	3620.0	1928.6	588.8	351.5
44°	6460.3	6038.1	5039.1	3569.5	1867.4	522.7	329.3
44.5°	6455.4	6026.4	5008.2	3516.4	1808.1	477.2	313.5

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	6449.1	6010.8	4977.5	3462.3	1745.3	444.6	302.3
45.5°	6444.4	5994.3	4946.0	3408.8	1675.3	423.8	294.0
46°	6440.3	5978.6	4914.3	3353.7	1599.4	412.2	288.9
46.5°	6435.5	5964.1	4882.1	3300.4	1527.7	404.6	286.2
47°	6430.1	5948.3	4850.0	3246.1	1460.9	397.7	284.3
47.5°	6425.9	5931.5	4816.9	3192.4	1404.2	391.2	280.5
48°	6420.6	5917.4	4784.3	3138.0	1352.4	383.8	272.2
48.5°	6416.6	5904.3	4751.9	3084.0	1303.1	377.1	260.8
49°	6414.2	5890.3	4718.3	3030.7	1254.0	371.8	248.3
49.5°	6410.2	5877.6	4685.7	2977.6	1200.9	368.4	243.4
50°	6407.8	5863.8	4651.9	2924.9	1139.4	366.0	239.0
50.5°	6405.4	5851.9	4615.4	2872.9	1064.8	363.7	234.6
51°	6402.8	5842.3	4579.9	2817.4	980.5	358.8	230.2
51.5°	6399.1	5830.5	4544.6	2764.2	890.2	351.8	237.2
52°	6396.6	5817.8	4505.6	2705.1	798.9	344.8	247.5
52.5°	6394.2	5808.1	4466.6	2647.3	720.7	339.6	259.3
53°	6391.8	5798.4	4428.4	2584.6	652.6	335.8	267.5
53.5°	6388.6	5789.6	4387.6	2522.9	600.1	332.1	268.3
54°	6385.4	5778.9	4346.5	2456.7	560.2	328.3	281.9
54.5°	6381.4	5768.8	4305.8	2392.6	532.4	324.9	461.3
55°	6376.0	5758.0	4263.1	2327.8	504.6	322.5	651.6
55.5°	6369.3	5749.6	4218.9	2263.8	476.8	320.6	841.8
56°	6360.7	5740.0	4175.4	2199.7	449.0	318.0	1032.0
56.5°	6350.8	5732.0	4129.9	2135.5	422.2	312.6	1222.2
57°	6336.4	5724.9	4081.7	2071.5	410.4	301.1	1374.7
57.5°	6321.1	5718.5	4034.6	2003.2	400.7	281.9	1525.5
58°	6299.5	5710.6	3984.4	1929.8	391.3	251.7	1676.1
58.5°	6273.8	5700.9	3932.1	1854.3	382.5	232.9	1802.5
59°	6243.2	5691.8	3881.1	1774.2	373.4	214.8	1898.3
59.5°	6210.2	5676.5	3828.2	1695.2	364.8	196.4	1947.7
60°	6171.3	5661.9	3775.0	1617.5	356.2	178.0	1973.0
60.5°	6129.5	5647.1	3720.6	1536.8	347.3	164.2	1988.2
61°	6084.1	5630.1	3667.4	1455.8	337.9	145.5	1934.6
61.5°	6039.7	5612.0	3614.6	1372.6	329.2	129.7	1804.1
62°	5998.0	5594.7	3561.9	1290.7	320.5	126.2	1662.2
62.5°	5956.4	5576.6	3508.9	1209.2	311.9	129.0	1529.9
63°	5919.9	5558.4	3451.5	1131.3	303.2	133.6	1374.5
63.5°	5885.0	5540.8	3390.0	1053.8	294.6	140.0	1185.8
64°	5854.6	5525.7	3329.7	980.7	287.0	153.1	985.5
64.5°	5831.4	5509.4	3270.1	912.3	280.1	188.7	775.7
65°	5821.5	5494.0	3210.8	852.0	273.8	332.5	605.0
65.5°	5826.6	5479.1	3153.8	800.9	267.2	478.4	489.3
66°	5847.3	5461.3	3096.3	759.2	260.3	624.4	408.9
66.5°	5886.0	5453.4	3041.7	725.8	253.5	770.5	353.4
67°	5947.8	5459.2	2989.3	690.5	247.6	916.7	308.1

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	6053.1	5491.6	2935.4	634.4	241.4	970.8	271.3
68°	6202.9	5557.4	2879.5	571.3	233.9	962.2	242.5
68.5°	6411.7	5648.8	2825.5	528.5	224.8	928.0	223.6
69°	6664.8	5790.2	2771.6	509.6	216.5	884.0	204.9
69.5°	6922.4	5962.8	2716.1	497.7	205.9	836.9	186.3
70°	7154.0	6171.3	2657.9	487.9	196.1	784.1	167.6
70.5°	7318.2	6387.5	2600.8	474.8	188.4	725.1	152.3
71°	7351.2	6567.0	2542.6	457.5	181.0	665.4	136.4
71.5°	7202.7	6676.6	2487.2	437.4	172.9	607.6	119.8
72°	6870.9	6708.9	2436.4	416.8	161.2	554.7	104.7
72.5°	6343.4	6598.4	2385.3	397.5	141.1	500.1	90.4
73°	5815.4	6338.9	2341.5	379.1	127.6	443.9	74.4
73.5°	5287.1	5952.1	2303.5	358.9	117.6	376.4	58.5
74°	4758.2	5436.3	2270.9	337.3	100.4	299.0	44.0
74.5°	4240.5	4913.5	2242.2	316.7	88.6	223.7	33.6
75°	4026.3	4461.7	2217.5	297.1	83.3	171.4	25.8
75.5°	3997.1	4088.4	2197.2	277.6	79.0	119.9	23.1
76°	4105.5	3820.4	2186.1	257.7	74.6	68.4	21.5
76.5°	4112.0	3685.4	2187.9	235.8	69.6	16.9	19.8
77°	3778.9	3762.7	2197.4	213.9	60.8	7.4	18.1
77.5°	2963.2	3933.7	2227.7	192.0	50.9	6.3	16.3
78°	1958.5	4016.8	2282.6	170.0	43.5	6.3	14.8
78.5°	1634.3	3751.3	2359.6	148.1	34.8	6.6	13.4
79°	1309.0	3118.6	2446.4	128.3	27.3	7.0	12.3
79.5°	983.0	2321.8	2519.1	111.6	21.6	7.6	11.3
80°	658.3	1902.5	2556.8	99.3	17.8	8.2	10.4
80.5°	341.0	1507.3	2556.6	88.7	14.9	8.7	9.6
81°	336.4	1112.0	2521.4	79.7	12.5	9.0	8.9
81.5°	348.0	716.6	2459.2	71.6	9.9	9.1	8.4
82°	361.4	321.1	2362.0	64.0	7.7	9.2	8.0
82.5°	370.5	292.3	2224.5	57.1	5.7	9.2	7.6
83°	362.5	275.2	2051.3	50.8	4.9	9.2	7.3
83.5°	327.3	270.9	1819.3	44.8	4.7	9.1	7.1
84°	289.5	276.2	1578.8	39.8	4.6	9.0	7.0
84.5°	266.8	274.9	1343.6	35.1	4.4	8.9	6.9
85°	251.2	270.8	1134.9	30.8	4.3	8.7	6.8
85.5°	241.6	250.3	955.1	27.1	4.2	8.4	6.7
86°	233.7	227.6	809.7	23.7	4.1	8.1	6.7
86.5°	222.0	205.1	718.2	20.5	4.0	7.7	6.7
87°	215.7	182.5	626.8	17.7	3.9	7.4	6.7
87.5°	217.5	160.0	535.3	14.9	3.8	7.0	6.7
88°	219.8	149.3	443.9	12.2	3.7	6.6	6.7
88.5°	219.3	137.6	353.0	10.0	3.6	6.2	6.8
89°	216.7	131.1	320.4	8.3	3.6	5.8	6.9
89.5°	212.3	128.1	293.4	6.6	3.6	5.5	7.0

REPORT NUMBER: P1197117

CATALOG NUMBER: AWP150S-BZ-BZ-MID-3000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	205.0	127.8	266.3	5.8	3.6	5.3	7.2
90.5°	193.2	129.3	242.1	5.6	3.6	5.1	7.3
91°	175.9	130.8	223.5	5.4	3.5	5.1	7.5
91.5°	153.2	131.4	206.8	5.2	3.5	5.0	7.6
92°	128.0	129.0	192.0	5.0	3.6	5.0	7.8
92.5°	106.5	122.3	177.4	4.9	3.6	5.0	8.0
93°	90.4	112.2	156.9	4.8	3.6	5.0	8.1
93.5°	77.2	101.8	116.9	4.7	3.7	5.0	8.3
94°	66.5	94.7	89.1	4.6	3.7	5.1	8.5
94.5°	57.8	89.1	53.8	4.5	3.8	5.2	8.7
95°	52.6	82.8	38.2	4.4	3.9	5.3	8.9
95.5°	50.5	74.5	29.0	4.3	4.0	5.5	9.1
96°	50.0	63.9	22.7	4.2	4.1	5.6	9.4
96.5°	49.0	52.7	19.7	4.2	4.2	5.8	9.6
97°	45.9	42.5	18.2	4.2	4.3	6.0	9.8
97.5°	41.7	33.1	16.8	4.1	4.4	6.1	10.1
98°	35.1	21.2	15.4	4.1	4.6	6.3	10.3
98.5°	26.8	8.5	14.1	4.1	4.7	6.5	10.4
99°	15.0	4.5	12.7	4.1	4.9	6.7	10.6
99.5°	6.1	3.2	11.4	4.1	5.0	6.8	10.8
100°	4.4	2.6	10.2	4.1	5.2	7.0	11.0
100.5°	3.4	2.3	9.1	4.0	5.4	7.2	11.3
101°	3.0	2.1	8.1	4.0	5.6	7.4	11.5
101.5°	2.4	2.0	7.3	4.0	5.7	7.6	11.7
102°	2.3	1.9	6.6	4.0	5.9	7.8	11.9
102.5°	2.2	1.8	5.9	4.1	6.1	8.0	12.2
103°	2.2	1.8	5.3	4.1	6.3	8.2	12.4
103.5°	2.2	1.7	4.9	4.2	6.4	8.4	12.6
104°	2.1	1.7	4.5	4.2	6.6	8.6	12.8
104.5°	2.1	1.6	4.1	4.3	6.8	8.8	12.9
105°	2.0	1.6	3.8	4.4	7.0	9.0	13.1
105.5°	1.9	1.6	3.5	4.5	7.2	9.2	13.3
106°	1.8	1.6	3.3	4.6	7.4	9.4	13.5
106.5°	1.7	1.6	3.1	4.7	7.5	9.6	13.7
107°	1.6	1.5	2.8	4.8	7.7	9.8	13.9
107.5°	1.6	1.5	2.6	4.9	7.9	10.0	14.1
108°	1.5	1.5	2.4	5.0	8.1	10.2	14.2
108.5°	1.5	1.5	2.3	5.1	8.3	10.4	14.4
109°	1.5	1.5	2.2	5.2	8.5	10.6	14.5
109.5°	1.4	1.5	2.2	5.3	8.6	10.8	14.7
110°	1.4	1.4	2.2	5.4	8.8	11.0	14.8
110.5°	1.3	1.4	2.2	5.5	9.0	11.2	14.9
111°	1.3	1.4	2.2	5.6	9.2	11.4	15.1
111.5°	1.3	1.4	2.2	5.7	9.4	11.5	15.2
112°	1.3	1.4	2.3	5.9	9.6	11.8	15.4

REPORT NUMBER: P1197117

CATALOG NUMBER: AWP150S-BZ-BZ-MID-3000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	1.2	1.4	2.3	6.0	9.8	11.9	15.5
113°	1.3	1.4	2.4	6.1	10.0	12.1	15.7
113.5°	1.3	1.4	2.4	6.2	10.1	12.3	15.8
114°	1.3	1.4	2.5	6.2	10.3	12.5	15.9
114.5°	1.3	1.4	2.6	6.4	10.5	12.7	16.1
115°	1.3	1.4	2.7	6.4	10.6	12.9	16.2
115.5°	1.3	1.4	2.8	6.5	10.8	13.1	16.3
116°	1.4	1.4	2.8	6.6	11.0	13.2	16.4
116.5°	1.4	1.5	2.9	6.7	11.1	13.4	16.5
117°	1.4	1.5	3.0	6.8	11.3	13.6	16.6
117.5°	1.4	1.6	3.1	6.9	11.5	13.7	16.7
118°	1.5	1.6	3.2	7.0	11.6	13.9	16.8
118.5°	1.5	1.7	3.3	7.1	11.7	14.0	16.9
119°	1.6	1.7	3.4	7.2	11.9	14.2	17.0
119.5°	1.6	1.8	3.5	7.3	12.0	14.3	17.1
120°	1.6	1.8	3.6	7.4	12.2	14.4	17.2
120.5°	1.7	1.9	3.7	7.5	12.3	14.5	17.3
121°	1.7	2.0	3.8	7.6	12.4	14.6	17.4
121.5°	1.8	2.0	4.0	7.7	12.6	14.8	17.4
122°	1.8	2.1	4.1	7.8	12.7	14.9	17.5
122.5°	1.8	2.2	4.2	7.9	12.8	15.0	17.5
123°	1.9	2.3	4.3	8.0	12.9	15.1	17.5
123.5°	1.9	2.3	4.4	8.1	13.1	15.2	17.5
124°	2.0	2.4	4.5	8.2	13.2	15.3	17.6
124.5°	2.0	2.5	4.6	8.4	13.3	15.4	17.6
125°	2.1	2.5	4.7	8.5	13.4	15.5	17.6
125.5°	2.1	2.6	4.9	8.6	13.5	15.6	17.7
126°	2.2	2.7	5.0	8.7	13.6	15.7	17.7
126.5°	2.3	2.8	5.1	8.8	13.7	15.8	17.7
127°	2.3	2.9	5.2	8.9	13.8	15.9	17.7
127.5°	2.4	3.0	5.3	9.0	13.9	15.9	17.7
128°	2.5	3.1	5.4	9.2	14.0	16.0	17.7
128.5°	2.5	3.2	5.5	9.3	14.0	16.1	17.8
129°	2.6	3.3	5.7	9.4	14.1	16.2	17.8
129.5°	2.6	3.4	5.8	9.5	14.2	16.3	17.8
130°	2.7	3.5	5.9	9.6	14.3	16.4	17.9
130.5°	2.8	3.6	6.0	9.7	14.4	16.5	17.9
131°	2.9	3.7	6.1	9.9	14.5	16.6	18.0
131.5°	3.0	3.8	6.3	10.0	14.5	16.7	18.0
132°	3.0	3.9	6.4	10.1	14.6	16.8	18.1
132.5°	3.1	4.0	6.5	10.2	14.7	16.9	18.1
133°	3.2	4.1	6.6	10.3	14.8	17.0	18.2
133.5°	3.3	4.2	6.7	10.4	14.8	17.1	18.2
134°	3.3	4.3	6.8	10.5	14.9	17.2	18.3
134.5°	3.4	4.4	7.0	10.6	15.0	17.3	18.3

REPORT NUMBER: P1197117

CATALOG NUMBER: AWP150S-BZ-BZ-MID-3000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	3.5	4.5	7.1	10.8	15.0	17.3	18.4
135.5°	3.6	4.6	7.2	10.9	15.1	17.4	18.5
136°	3.7	4.7	7.3	11.0	15.2	17.5	18.5
136.5°	3.8	4.8	7.4	11.1	15.2	17.6	18.5
137°	3.9	5.0	7.6	11.2	15.3	17.6	18.6
137.5°	4.0	5.1	7.7	11.3	15.4	17.7	18.7
138°	4.1	5.2	7.8	11.4	15.4	17.7	18.8
138.5°	4.2	5.3	7.9	11.5	15.5	17.7	18.9
139°	4.3	5.4	8.1	11.7	15.5	17.8	19.0
139.5°	4.4	5.6	8.2	11.8	15.6	17.8	19.0
140°	4.5	5.7	8.3	11.9	15.6	17.8	19.0
140.5°	4.6	5.8	8.4	12.0	15.7	17.9	19.1
141°	4.8	6.0	8.5	12.1	15.7	17.9	19.1
141.5°	4.9	6.1	8.7	12.2	15.8	17.9	19.1
142°	5.0	6.3	8.8	12.3	15.9	17.9	19.1
142.5°	5.1	6.4	8.9	12.4	15.9	17.9	19.1
143°	5.3	6.6	9.0	12.5	16.0	17.9	19.1
143.5°	5.4	6.7	9.2	12.6	16.0	17.9	19.1
144°	5.5	6.9	9.3	12.7	16.1	17.9	19.1
144.5°	5.6	7.0	9.4	12.8	16.1	17.9	19.1
145°	5.8	7.1	9.6	12.9	16.1	17.9	19.0
145.5°	5.9	7.3	9.7	12.9	16.2	17.9	19.0
146°	6.0	7.4	9.8	13.1	16.2	17.9	19.0
146.5°	6.2	7.6	9.9	13.1	16.3	18.0	19.0
147°	6.3	7.7	10.0	13.2	16.3	18.0	18.9
147.5°	6.4	7.8	10.2	13.3	16.4	18.0	18.9
148°	6.5	7.9	10.3	13.4	16.4	17.9	18.8
148.5°	6.6	8.0	10.4	13.5	16.5	18.0	18.8
149°	6.8	8.2	10.5	13.6	16.5	18.0	18.8
149.5°	6.9	8.3	10.6	13.7	16.6	18.0	18.8
150°	7.0	8.4	10.7	13.8	16.6	18.0	18.8
150.5°	7.1	8.5	10.9	13.9	16.7	18.0	18.8
151°	7.2	8.7	11.0	14.0	16.7	18.1	18.8
151.5°	7.4	8.8	11.1	14.1	16.8	18.1	18.8
152°	7.5	8.9	11.2	14.2	16.9	18.1	18.7
152.5°	7.6	9.0	11.4	14.3	16.9	18.2	18.7
153°	7.7	9.2	11.5	14.4	17.0	18.2	18.7
153.5°	7.8	9.3	11.6	14.5	17.1	18.2	18.7
154°	8.0	9.4	11.7	14.6	17.1	18.3	18.7
154.5°	8.1	9.5	11.9	14.7	17.2	18.3	18.6
155°	8.2	9.7	12.0	14.8	17.3	18.4	18.6
155.5°	8.3	9.8	12.1	14.9	17.3	18.4	18.6
156°	8.5	9.9	12.3	15.0	17.4	18.4	18.6
156.5°	8.6	10.1	12.4	15.1	17.4	18.4	18.6
157°	8.7	10.2	12.5	15.2	17.5	18.4	18.5

REPORT NUMBER: P1197117

CATALOG NUMBER: AWP150S-BZ-BZ-MID-3000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	8.9	10.3	12.6	15.3	17.5	18.4	18.5
158°	9.0	10.4	12.7	15.3	17.5	18.4	18.5
158.5°	9.1	10.6	12.9	15.4	17.6	18.4	18.5
159°	9.3	10.7	13.0	15.5	17.6	18.4	18.5
159.5°	9.4	10.8	13.1	15.6	17.7	18.4	18.5
160°	9.6	11.0	13.2	15.7	17.7	18.4	18.5
160.5°	9.7	11.1	13.3	15.7	17.7	18.5	18.5
161°	9.9	11.3	13.5	15.8	17.8	18.5	18.5
161.5°	10.0	11.4	13.6	15.9	17.8	18.5	18.5
162°	10.1	11.5	13.7	16.0	17.8	18.5	18.4
162.5°	10.3	11.6	13.8	16.0	17.9	18.5	18.4
163°	10.4	11.8	13.9	16.1	17.9	18.5	18.3
163.5°	10.6	11.9	14.0	16.2	17.9	18.5	18.3
164°	10.7	12.1	14.2	16.2	17.9	18.5	18.2
164.5°	10.9	12.2	14.3	16.3	18.0	18.5	18.1
165°	11.0	12.4	14.4	16.4	18.0	18.5	18.1
165.5°	11.2	12.5	14.5	16.5	18.0	18.4	18.0
166°	11.4	12.7	14.7	16.5	18.1	18.4	18.0
166.5°	11.5	12.8	14.8	16.6	18.1	18.4	18.0
167°	11.7	13.0	14.9	16.7	18.1	18.4	18.0
167.5°	11.9	13.1	15.0	16.8	18.2	18.4	18.0
168°	12.1	13.3	15.2	16.9	18.2	18.4	17.9
168.5°	12.3	13.5	15.3	16.9	18.2	18.4	17.9
169°	12.5	13.6	15.4	17.0	18.2	18.4	17.9
169.5°	12.6	13.8	15.5	17.1	18.2	18.4	17.8
170°	12.8	14.0	15.7	17.1	18.2	18.4	17.7
170.5°	13.0	14.1	15.8	17.2	18.2	18.4	17.7
171°	13.2	14.3	15.9	17.2	18.2	18.4	17.6
171.5°	13.3	14.4	16.0	17.3	18.2	18.4	17.6
172°	13.5	14.5	16.1	17.3	18.2	18.4	17.5
172.5°	13.6	14.6	16.1	17.3	18.1	18.3	17.4
173°	13.8	14.8	16.2	17.3	18.1	18.3	17.3
173.5°	13.9	14.9	16.3	17.4	18.1	18.2	17.2
174°	14.1	15.0	16.4	17.4	18.1	18.2	17.1
174.5°	14.2	15.2	16.5	17.5	18.1	18.2	17.0
175°	14.4	15.3	16.6	17.5	18.1	18.1	16.9
175.5°	14.5	15.4	16.7	17.5	18.1	18.0	16.8
176°	14.7	15.6	16.8	17.6	18.1	18.0	16.7
176.5°	14.8	15.7	16.9	17.6	18.0	18.0	16.6
177°	14.9	15.8	16.9	17.6	18.0	17.9	16.5
177.5°	15.1	15.9	17.0	17.6	18.0	17.9	16.3
178°	15.2	16.1	17.1	17.7	18.0	17.8	16.2
178.5°	15.3	16.2	17.2	17.7	17.9	17.7	16.1
179°	15.5	16.3	17.3	17.7	17.9	17.7	16.0
179.5°	15.6	16.4	17.3	17.7	17.9	17.6	15.9



REPORT NUMBER: P1197117
CATALOG NUMBER: AWPf150S-BZ-BZ-MID-3000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	15.7	15.7	15.7	15.7	15.7	15.7	15.7

(END OF REPORT)