

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: P1197116

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

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197116
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-LOW-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: 13809 lumens
Efficiency: 71.5%
Efficacy: 137.5 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 - U2 - G3

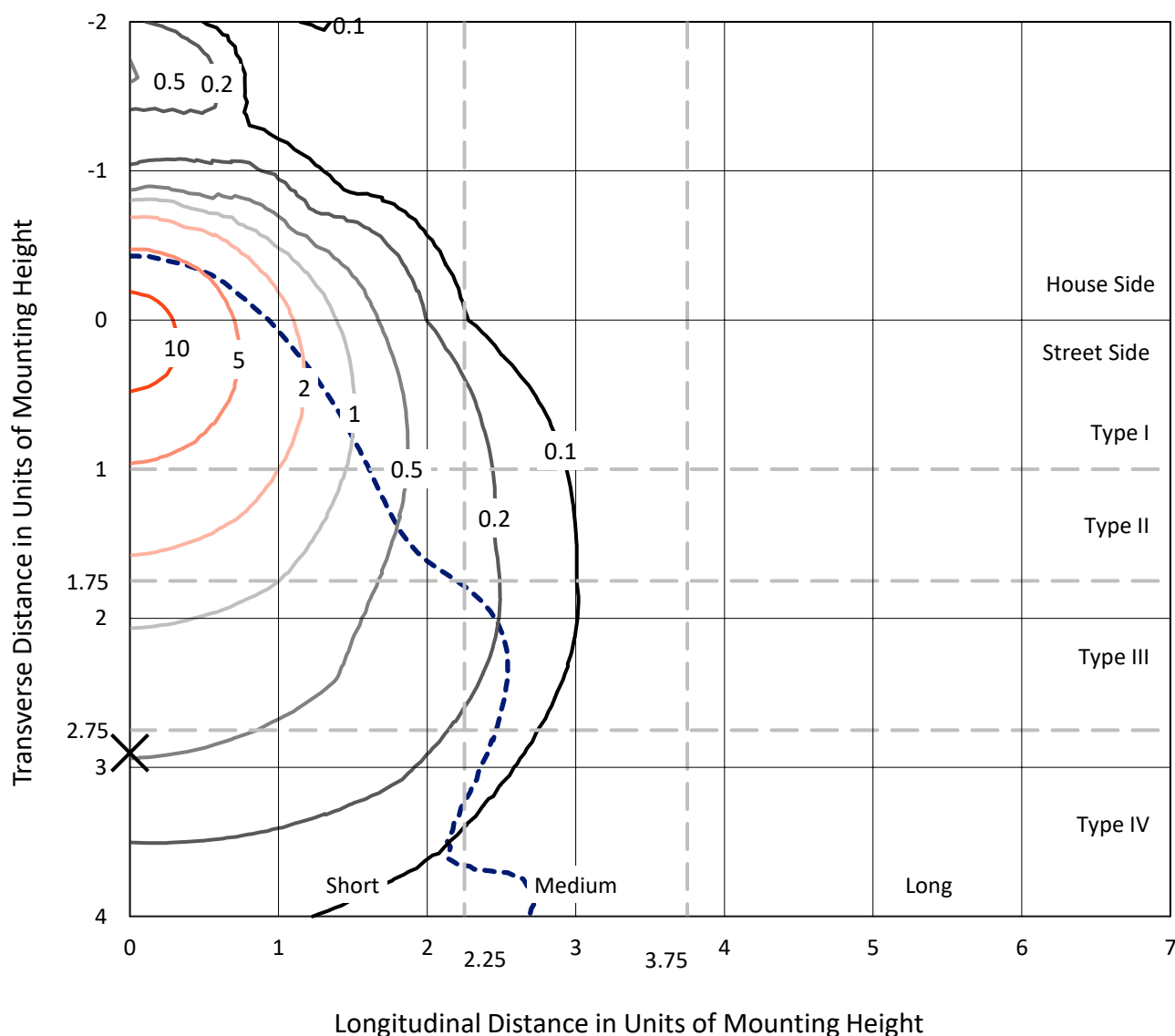
Input Watts (W): 100.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

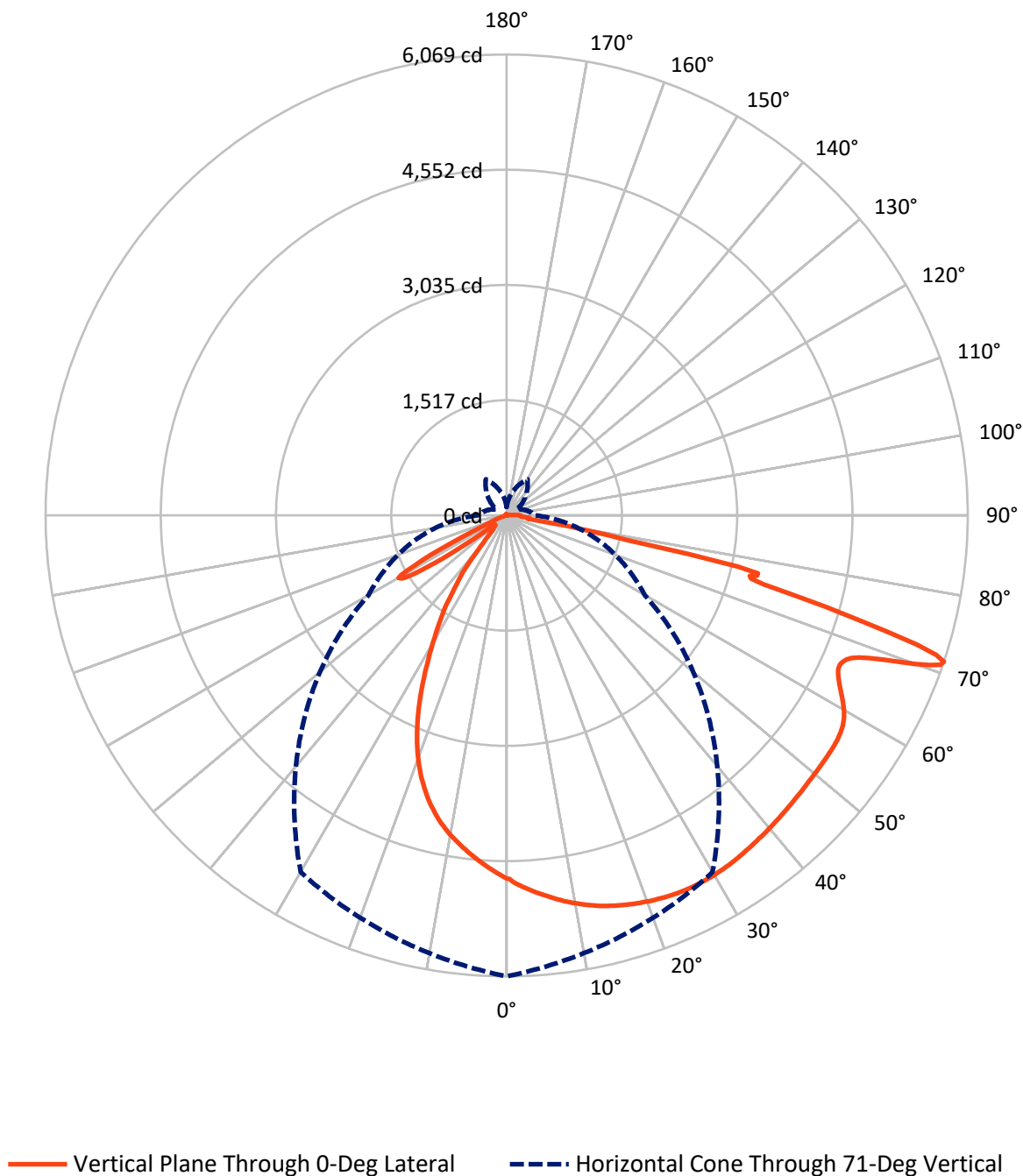


Based on 20 foot mounting height. Maximum calculated value = 12.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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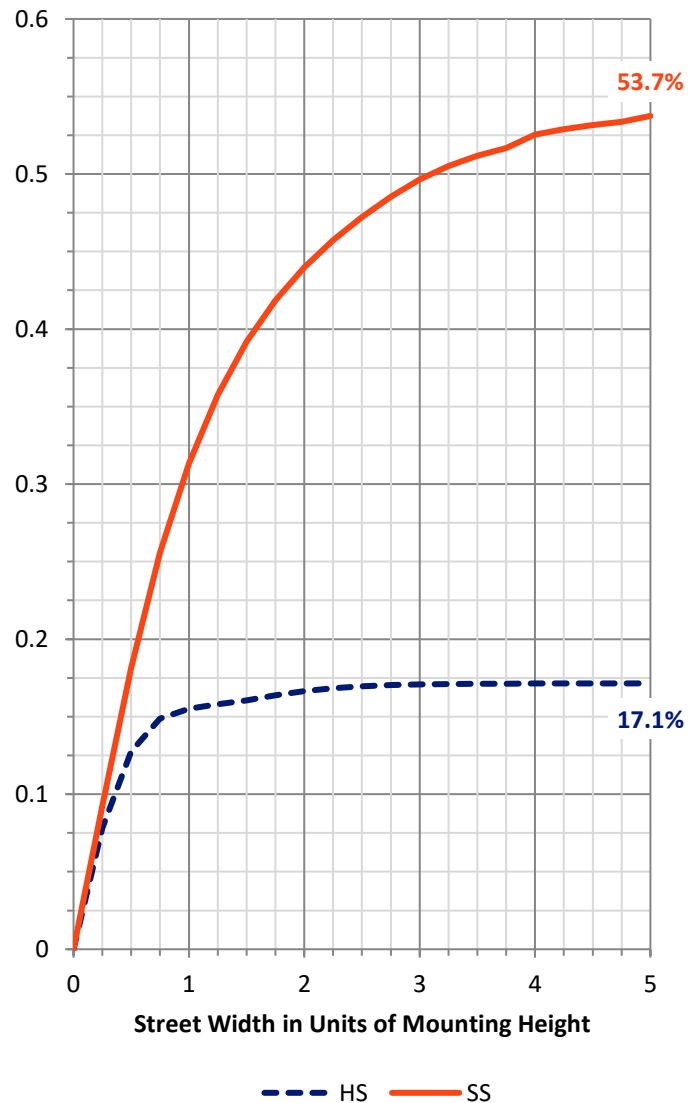
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3335.1	31.4	3366.5
	% Lamp	17.3	0.2	17.4
Street Side	Lumens	10399.1	43.4	10442.5
	% Lamp	53.9	0.2	54.1
Total	Lumens	13734.3	74.8	13809.0
	% Lamp	71.1	0.4	71.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	453.5	3.3	2.3
10°-20°	1298.1	9.4	6.7
20°-30°	1922.4	13.9	10.0
30°-40°	2188.7	15.8	11.3
40°-50°	2143.7	15.5	11.1
50°-60°	2074.5	15.0	10.7
60°-70°	1907.5	13.8	9.9
70°-80°	1458.6	10.6	7.6
80°-90°	287.2	2.1	1.5
90°-100°	33.3	0.2	0.2
100°-110°	5.0	0.0	0.0
110°-120°	5.8	0.0	0.0
120°-130°	6.7	0.0	0.0
130°-140°	7.0	0.1	0.0
140°-150°	6.5	0.0	0.0
150°-160°	5.4	0.0	0.0
160°-170°	3.7	0.0	0.0
170°-180°	1.3	0.0	0.0
0°-90°	13734.3	99.5	71.1
0°-180°	13809.0	100.0	71.5

Coefficient of Utilization



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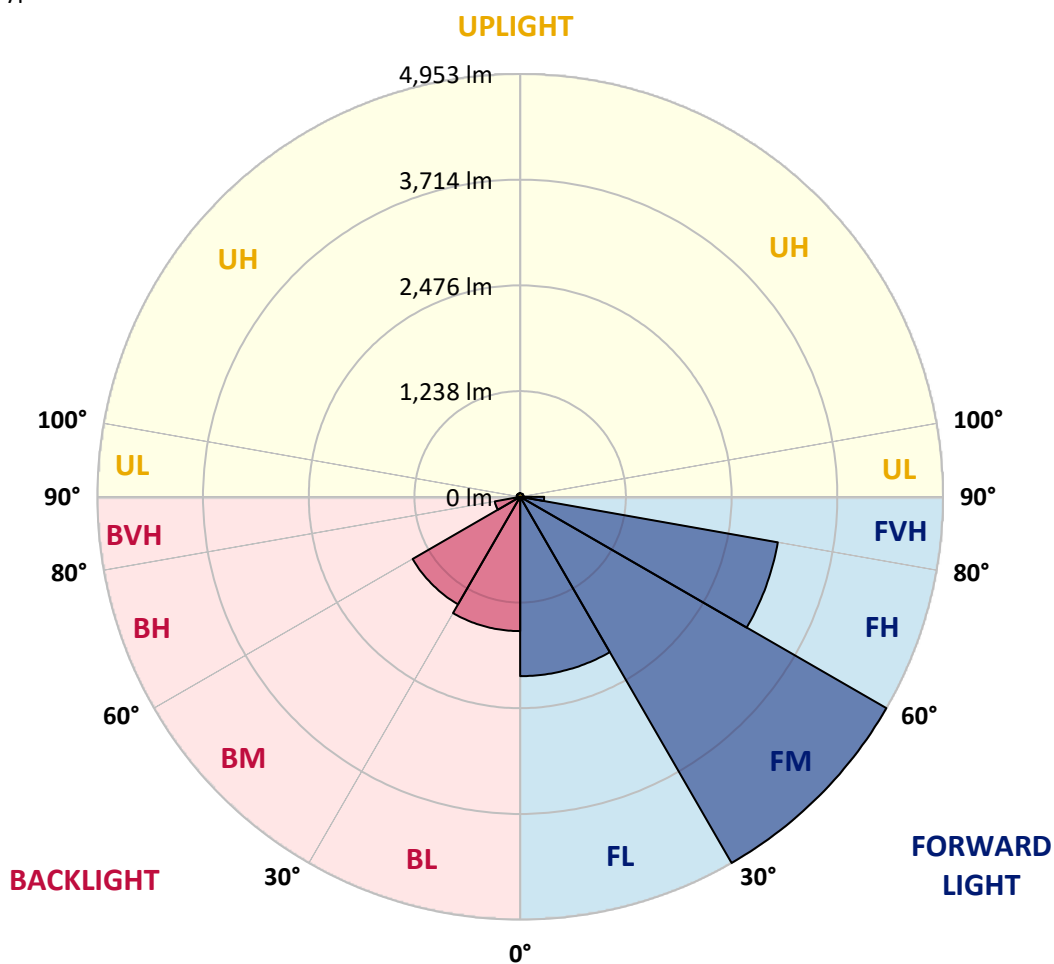
CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 15

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2100.5	10.9			
FM	(30°-60°)	4952.6	25.7			
FH	(60°-80°)	3064.2	15.9			G2/5000
FVH	(80°-90°)	281.7	1.5			G3/500
BL	(0°-30°)	1573.5	8.2	B3/2500		
BM	(30°-60°)	1454.2	7.5	B2/2500		
BH	(60°-80°)	301.9	1.6	B1/500		G1/500
BVH	(80°-90°)	5.5	0.0			G0/10
UL	(90°-100°)	33.3	0.2		U2/50	
UH	(100°-180°)	41.5	0.2		U2/50	
Trapped Light		5496.0	28.5			

BUG Rating: B3-U2-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	4788.5	4788.5	4788.5	4788.5	4788.5	4788.5	4788.5
0.5°	4826.8	4825.8	4807.0	4787.1	4765.3	4740.2	4781.2
1°	4850.8	4844.0	4818.4	4786.5	4753.4	4719.4	4757.3
1.5°	4871.8	4862.2	4828.6	4784.5	4741.0	4698.8	4733.2
2°	4894.3	4880.5	4838.1	4783.1	4728.2	4677.2	4710.4
2.5°	4916.8	4899.2	4847.6	4781.2	4714.8	4657.2	4686.1
3°	4938.2	4917.2	4856.7	4778.5	4701.4	4636.9	4661.7
3.5°	4958.9	4934.9	4865.3	4775.3	4687.3	4615.3	4639.4
4°	4980.1	4951.8	4874.3	4772.0	4673.5	4593.5	4614.4
4.5°	4998.9	4969.7	4882.0	4768.1	4658.6	4572.0	4590.3
5°	5018.0	4984.9	4888.8	4762.4	4644.7	4549.6	4565.4
5.5°	5038.6	5000.2	4895.8	4757.6	4628.7	4526.1	4539.1
6°	5057.7	5015.0	4902.8	4751.8	4612.9	4503.1	4513.1
6.5°	5077.5	5030.8	4908.4	4745.8	4596.4	4479.0	4487.9
7°	5096.9	5046.0	4914.5	4738.0	4579.1	4454.1	4461.6
7.5°	5115.8	5061.3	4919.5	4731.4	4562.3	4431.2	4432.9
8°	5135.2	5075.4	4924.7	4723.9	4543.9	4405.5	4408.1
8.5°	5151.8	5090.0	4928.7	4716.5	4525.4	4379.0	4380.1
9°	5168.2	5104.0	4932.9	4707.7	4507.2	4354.6	4352.2
9.5°	5185.6	5116.5	4936.8	4698.5	4487.6	4328.4	4323.8
10°	5201.2	5128.9	4939.4	4688.2	4466.0	4303.1	4298.3
10.5°	5217.2	5140.9	4942.1	4678.0	4446.3	4276.7	4268.7
11°	5232.4	5152.8	4944.5	4667.5	4425.7	4249.6	4237.3
11.5°	5246.4	5163.0	4946.3	4656.7	4404.3	4221.2	4206.2
12°	5260.8	5173.7	4947.6	4645.9	4382.9	4192.2	4175.4
12.5°	5273.8	5184.0	4948.3	4633.4	4361.5	4162.5	4141.9
13°	5286.7	5193.0	4949.5	4621.1	4338.1	4132.3	4106.3
13.5°	5299.4	5200.9	4950.1	4607.4	4318.4	4100.9	4070.7
14°	5310.9	5210.6	4949.3	4594.3	4297.8	4068.5	4032.7
14.5°	5320.8	5218.9	4948.0	4580.0	4275.7	4034.7	3992.4
15°	5330.8	5225.9	4947.9	4564.2	4253.7	3998.9	3954.8
15.5°	5341.7	5232.9	4945.9	4549.3	4231.6	3963.0	3912.4
16°	5351.3	5240.1	4944.0	4533.5	4209.5	3925.9	3869.4
16.5°	5360.9	5245.5	4941.9	4517.4	4187.3	3885.7	3824.2
17°	5369.8	5251.4	4938.5	4501.3	4161.5	3846.3	3776.0
17.5°	5378.2	5256.1	4935.4	4484.1	4134.4	3805.0	3726.3
18°	5386.4	5261.1	4932.1	4466.7	4107.6	3761.7	3677.7
18.5°	5395.4	5265.1	4929.2	4450.1	4079.4	3718.9	3630.0
19°	5402.3	5269.6	4924.8	4432.1	4051.0	3673.4	3574.9
19.5°	5410.0	5272.7	4920.1	4414.0	4022.7	3627.4	3518.4
20°	5417.8	5275.4	4914.8	4395.8	3992.0	3579.7	3462.9
20.5°	5424.0	5279.1	4908.7	4376.8	3962.2	3531.4	3402.6
21°	5429.2	5282.5	4901.8	4356.3	3931.3	3476.9	3341.8
21.5°	5435.4	5283.8	4895.2	4337.0	3900.5	3424.6	3277.5
22°	5441.7	5285.0	4888.0	4318.9	3867.7	3370.5	3215.0

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	5446.1	5286.3	4881.3	4299.7	3834.3	3313.0	3145.6
23°	5450.7	5287.6	4873.3	4279.5	3801.2	3255.9	3076.3
23.5°	5455.8	5288.2	4865.2	4258.4	3766.9	3196.5	3005.1
24°	5459.8	5287.6	4856.6	4236.0	3732.0	3134.9	2935.9
24.5°	5463.0	5287.5	4847.9	4213.4	3694.7	3072.1	2861.7
25°	5466.1	5286.9	4837.9	4190.5	3657.3	3007.5	2785.9
25.5°	5468.7	5285.6	4828.1	4167.9	3619.2	2943.3	2710.3
26°	5469.1	5284.9	4818.2	4143.4	3579.9	2872.8	2633.8
26.5°	5469.3	5282.2	4807.0	4118.8	3540.0	2804.4	2554.9
27°	5469.7	5279.8	4796.5	4093.8	3499.6	2733.9	2473.4
27.5°	5469.9	5277.0	4785.1	4066.7	3455.8	2658.5	2394.4
28°	5470.3	5273.8	4772.9	4040.4	3413.1	2586.8	2316.6
28.5°	5470.5	5268.7	4760.3	4014.1	3369.1	2513.6	2238.1
29°	5468.6	5264.1	4747.7	3986.7	3322.6	2434.0	2162.8
29.5°	5467.3	5259.5	4734.4	3959.4	3275.6	2356.9	2086.5
30°	5464.0	5254.2	4721.0	3932.0	3228.5	2283.6	2010.7
30.5°	5461.9	5248.2	4705.5	3904.2	3180.1	2206.1	1940.3
31°	5458.1	5241.3	4689.9	3874.5	3132.0	2129.5	1873.9
31.5°	5456.1	5233.9	4675.1	3846.8	3080.9	2057.4	1807.6
32°	5452.2	5228.1	4658.6	3816.8	3029.7	1980.9	1741.3
32.5°	5448.9	5220.7	4643.6	3786.9	2977.3	1899.0	1675.0
33°	5443.8	5212.6	4625.8	3756.7	2923.5	1835.0	1608.7
33.5°	5439.2	5205.4	4608.0	3725.5	2867.8	1771.1	1549.2
34°	5435.1	5198.2	4590.6	3694.4	2811.4	1707.3	1493.9
34.5°	5430.6	5189.9	4571.1	3663.7	2752.8	1643.4	1426.8
35°	5424.6	5182.0	4551.0	3633.6	2693.0	1580.7	1331.8
35.5°	5419.6	5173.3	4532.1	3601.2	2631.6	1518.4	1250.9
36°	5415.0	5164.0	4512.3	3568.4	2569.9	1462.3	1181.2
36.5°	5410.3	5153.8	4490.5	3532.5	2504.7	1406.0	1119.5
37°	5404.5	5143.8	4468.8	3497.5	2440.9	1350.9	1064.3
37.5°	5398.8	5133.3	4449.3	3462.6	2375.8	1299.5	1008.8
38°	5394.1	5122.8	4427.3	3427.3	2308.8	1253.5	945.2
38.5°	5389.5	5112.9	4403.6	3389.1	2240.3	1191.5	869.5
39°	5384.8	5101.8	4381.5	3352.4	2171.1	1111.0	777.7
39.5°	5379.8	5091.5	4359.2	3315.3	2103.3	1039.1	687.3
40°	5375.1	5080.3	4335.8	3276.4	2034.9	973.9	601.8
40.5°	5369.8	5069.2	4314.9	3237.2	1967.2	917.2	529.8
41°	5364.6	5058.6	4294.2	3197.8	1900.0	858.2	468.7
41.5°	5359.9	5047.2	4272.5	3157.2	1833.1	792.8	421.7
42°	5354.0	5035.3	4250.8	3115.5	1767.0	714.0	378.8
42.5°	5349.0	5023.0	4229.2	3073.7	1705.5	633.4	342.5
43°	5344.3	5010.9	4207.5	3031.6	1647.2	552.2	313.5
43.5°	5339.3	4998.4	4185.6	2988.6	1592.2	486.1	290.2
44°	5333.4	4984.8	4160.2	2946.9	1541.7	431.5	271.8
44.5°	5329.4	4975.2	4134.6	2903.1	1492.7	393.9	258.8

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	5324.2	4962.4	4109.3	2858.4	1440.9	367.0	249.6
45.5°	5320.3	4948.7	4083.2	2814.2	1383.1	349.9	242.7
46°	5317.0	4935.7	4057.1	2768.7	1320.4	340.3	238.5
46.5°	5312.9	4923.8	4030.5	2724.7	1261.2	334.0	236.2
47°	5308.5	4910.7	4004.0	2679.9	1206.0	328.3	234.7
47.5°	5305.0	4896.9	3976.7	2635.5	1159.3	322.9	231.6
48°	5300.7	4885.3	3949.8	2590.6	1116.5	316.8	224.7
48.5°	5297.4	4874.4	3923.0	2546.0	1075.8	311.3	215.3
49°	5295.4	4862.8	3895.3	2502.0	1035.2	307.0	205.0
49.5°	5292.1	4852.4	3868.3	2458.2	991.4	304.1	201.0
50°	5290.1	4841.0	3840.5	2414.7	940.7	302.2	197.3
50.5°	5288.1	4831.1	3810.3	2371.8	879.1	300.2	193.7
51°	5286.0	4823.2	3781.1	2326.0	809.4	296.2	190.0
51.5°	5282.9	4813.5	3751.9	2282.1	734.9	290.4	195.8
52°	5280.8	4803.0	3719.7	2233.2	659.5	284.6	204.3
52.5°	5278.8	4795.0	3687.5	2185.5	595.0	280.4	214.1
53°	5276.9	4787.0	3656.0	2133.8	538.8	277.2	220.9
53.5°	5274.2	4779.7	3622.3	2082.8	495.4	274.2	221.5
54°	5271.6	4770.9	3588.3	2028.2	462.5	271.0	232.8
54.5°	5268.3	4762.5	3554.8	1975.3	439.5	268.2	380.8
55°	5263.9	4753.7	3519.5	1921.8	416.6	266.2	537.9
55.5°	5258.3	4746.7	3483.0	1868.9	393.6	264.7	695.0
56°	5251.2	4738.7	3447.1	1816.0	370.7	262.5	852.0
56.5°	5243.0	4732.2	3409.6	1763.0	348.5	258.1	1009.0
57°	5231.2	4726.3	3369.7	1710.1	338.8	248.6	1134.9
57.5°	5218.6	4721.0	3330.9	1653.8	330.8	232.7	1259.4
58°	5200.7	4714.5	3289.4	1593.2	323.1	207.8	1383.8
58.5°	5179.5	4706.5	3246.2	1530.8	315.8	192.3	1488.1
59°	5154.2	4699.0	3204.2	1464.8	308.3	177.3	1567.2
59.5°	5127.0	4686.4	3160.5	1399.5	301.1	162.2	1608.0
60°	5094.9	4674.3	3116.5	1335.4	294.1	147.0	1628.9
60.5°	5060.4	4662.1	3071.6	1268.8	286.7	135.5	1641.4
61°	5022.9	4648.1	3027.7	1201.9	279.0	120.1	1597.1
61.5°	4986.2	4633.1	2984.1	1133.2	271.8	107.1	1489.5
62°	4951.7	4618.8	2940.6	1065.5	264.6	104.2	1372.3
62.5°	4917.4	4603.9	2896.9	998.3	257.5	106.5	1263.0
63°	4887.3	4588.9	2849.5	934.0	250.3	110.3	1134.7
63.5°	4858.5	4574.3	2798.7	870.0	243.2	115.6	978.9
64°	4833.4	4561.8	2748.9	809.7	236.9	126.4	813.6
64.5°	4814.2	4548.4	2699.7	753.2	231.3	155.8	640.4
65°	4806.1	4535.7	2650.7	703.4	226.1	274.5	499.5
65.5°	4810.3	4523.4	2603.7	661.2	220.6	394.9	404.0
66°	4827.4	4508.7	2556.2	626.8	214.9	515.5	337.6
66.5°	4859.3	4502.2	2511.1	599.2	209.3	636.1	291.7
67°	4910.4	4506.9	2467.9	570.1	204.4	756.8	254.4

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

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	4997.3	4533.7	2423.3	523.7	199.3	801.5	224.0
68°	5120.9	4588.0	2377.2	471.7	193.1	794.4	200.2
68.5°	5293.3	4663.5	2332.6	436.3	185.6	766.2	184.6
69°	5502.2	4780.2	2288.1	420.7	178.7	729.8	169.2
69.5°	5714.9	4922.8	2242.4	410.9	170.0	690.9	153.8
70°	5906.2	5094.8	2194.2	402.8	161.9	647.3	138.4
70.5°	6041.7	5273.3	2147.1	392.0	155.6	598.6	125.8
71°	6069.0	5421.5	2099.1	377.7	149.5	549.3	112.6
71.5°	5946.3	5512.0	2053.4	361.1	142.7	501.6	98.9
72°	5672.5	5538.7	2011.4	344.1	133.1	457.9	86.4
72.5°	5237.0	5447.5	1969.2	328.2	116.5	412.9	74.7
73°	4801.0	5233.2	1933.1	313.0	105.4	366.5	61.4
73.5°	4364.9	4913.9	1901.7	296.3	97.1	310.8	48.3
74°	3928.2	4488.0	1874.8	278.5	82.8	246.8	36.3
74.5°	3500.8	4056.5	1851.1	261.5	73.2	184.7	27.7
75°	3324.0	3683.5	1830.7	245.3	68.8	141.5	21.3
75.5°	3299.9	3375.2	1814.0	229.2	65.2	99.0	19.1
76°	3389.4	3154.0	1804.7	212.7	61.6	56.5	17.8
76.5°	3394.8	3042.6	1806.3	194.7	57.5	14.0	16.4
77°	3119.8	3106.4	1814.1	176.6	50.2	6.1	15.0
77.5°	2446.4	3247.5	1839.1	158.5	42.1	5.2	13.5
78°	1616.9	3316.1	1884.5	140.4	35.9	5.2	12.2
78.5°	1349.2	3097.0	1948.0	122.3	28.8	5.4	11.1
79°	1080.7	2574.6	2019.6	105.9	22.5	5.8	10.1
79.5°	811.6	1916.8	2079.7	92.1	17.9	6.3	9.3
80°	543.5	1570.6	2110.8	82.0	14.7	6.8	8.6
80.5°	281.5	1244.4	2110.6	73.2	12.3	7.2	7.9
81°	277.7	918.1	2081.6	65.8	10.3	7.4	7.4
81.5°	287.3	591.6	2030.3	59.1	8.2	7.6	6.9
82°	298.4	265.1	1950.0	52.8	6.3	7.6	6.6
82.5°	305.9	241.3	1836.5	47.1	4.7	7.6	6.2
83°	299.2	227.2	1693.5	41.9	4.1	7.6	6.0
83.5°	270.2	223.6	1502.0	37.0	3.9	7.6	5.9
84°	239.0	228.0	1303.5	32.8	3.8	7.5	5.8
84.5°	220.3	226.9	1109.3	29.0	3.7	7.3	5.7
85°	207.4	223.5	937.0	25.5	3.6	7.1	5.6
85.5°	199.5	206.6	788.5	22.4	3.5	6.9	5.6
86°	192.9	187.9	668.4	19.6	3.4	6.7	5.5
86.5°	183.3	169.3	592.9	17.0	3.3	6.4	5.5
87°	178.1	150.7	517.4	14.6	3.2	6.1	5.5
87.5°	179.5	132.1	441.9	12.3	3.1	5.8	5.5
88°	181.4	123.3	366.5	10.1	3.1	5.4	5.5
88.5°	181.1	113.6	291.5	8.2	3.0	5.1	5.6
89°	178.9	108.2	264.5	6.9	3.0	4.8	5.7
89.5°	175.3	105.8	242.3	5.5	3.0	4.6	5.8

REPORT NUMBER: P1197116

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

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	169.3	105.5	219.8	4.8	3.0	4.3	5.9
90.5°	159.5	106.7	199.9	4.6	2.9	4.2	6.0
91°	145.3	108.0	184.5	4.4	2.9	4.2	6.2
91.5°	126.5	108.5	170.7	4.3	2.9	4.1	6.3
92°	105.7	106.5	158.5	4.2	2.9	4.1	6.4
92.5°	87.9	101.0	146.4	4.0	3.0	4.1	6.6
93°	74.6	92.7	129.6	4.0	3.0	4.1	6.7
93.5°	63.8	84.1	96.5	3.9	3.0	4.1	6.9
94°	54.9	78.2	73.6	3.8	3.1	4.2	7.0
94.5°	47.7	73.6	44.4	3.7	3.2	4.3	7.2
95°	43.4	68.4	31.6	3.6	3.2	4.4	7.3
95.5°	41.7	61.5	23.9	3.6	3.3	4.5	7.5
96°	41.3	52.7	18.7	3.5	3.4	4.6	7.7
96.5°	40.4	43.5	16.2	3.4	3.5	4.8	7.9
97°	37.9	35.1	15.0	3.4	3.6	4.9	8.1
97.5°	34.4	27.4	13.9	3.4	3.7	5.1	8.3
98°	29.0	17.5	12.7	3.4	3.8	5.2	8.5
98.5°	22.1	7.0	11.6	3.4	3.9	5.3	8.6
99°	12.4	3.7	10.5	3.4	4.0	5.5	8.8
99.5°	5.1	2.7	9.4	3.4	4.2	5.6	8.9
100°	3.7	2.1	8.5	3.3	4.3	5.8	9.1
100.5°	2.8	1.9	7.5	3.3	4.4	6.0	9.3
101°	2.4	1.8	6.7	3.3	4.6	6.1	9.5
101.5°	2.0	1.7	6.0	3.3	4.7	6.3	9.7
102°	1.9	1.6	5.4	3.3	4.9	6.5	9.9
102.5°	1.8	1.5	4.9	3.4	5.0	6.6	10.0
103°	1.8	1.5	4.4	3.4	5.2	6.8	10.2
103.5°	1.8	1.4	4.0	3.4	5.3	6.9	10.4
104°	1.7	1.4	3.7	3.5	5.5	7.1	10.5
104.5°	1.7	1.3	3.4	3.5	5.6	7.3	10.7
105°	1.6	1.3	3.1	3.6	5.8	7.4	10.8
105.5°	1.5	1.3	2.9	3.7	5.9	7.6	11.0
106°	1.5	1.3	2.7	3.8	6.1	7.8	11.1
106.5°	1.4	1.3	2.5	3.9	6.2	7.9	11.3
107°	1.3	1.3	2.3	3.9	6.4	8.1	11.5
107.5°	1.3	1.2	2.2	4.0	6.5	8.3	11.6
108°	1.2	1.2	2.0	4.1	6.7	8.4	11.8
108.5°	1.2	1.3	1.9	4.2	6.8	8.6	11.9
109°	1.2	1.2	1.8	4.3	7.0	8.7	12.0
109.5°	1.2	1.2	1.8	4.4	7.1	8.9	12.1
110°	1.1	1.2	1.8	4.5	7.3	9.0	12.2
110.5°	1.1	1.2	1.8	4.6	7.4	9.2	12.3
111°	1.1	1.2	1.8	4.7	7.6	9.4	12.5
111.5°	1.1	1.1	1.9	4.7	7.8	9.5	12.6
112°	1.0	1.1	1.9	4.8	7.9	9.7	12.7

REPORT NUMBER: P1197116

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

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	1.0	1.1	1.9	4.9	8.1	9.9	12.8
113°	1.0	1.1	2.0	5.0	8.2	10.0	12.9
113.5°	1.1	1.1	2.0	5.1	8.4	10.2	13.0
114°	1.1	1.1	2.1	5.2	8.5	10.3	13.1
114.5°	1.1	1.1	2.1	5.2	8.7	10.5	13.3
115°	1.1	1.1	2.2	5.3	8.8	10.6	13.4
115.5°	1.1	1.2	2.3	5.4	8.9	10.8	13.5
116°	1.1	1.2	2.3	5.5	9.1	10.9	13.6
116.5°	1.1	1.2	2.4	5.5	9.2	11.1	13.6
117°	1.2	1.2	2.5	5.6	9.3	11.2	13.7
117.5°	1.2	1.3	2.6	5.7	9.5	11.3	13.8
118°	1.2	1.3	2.7	5.8	9.6	11.5	13.9
118.5°	1.2	1.4	2.7	5.9	9.7	11.6	13.9
119°	1.3	1.4	2.8	5.9	9.8	11.7	14.0
119.5°	1.3	1.5	2.9	6.0	9.9	11.8	14.1
120°	1.4	1.5	3.0	6.1	10.0	11.9	14.2
120.5°	1.4	1.6	3.1	6.2	10.1	12.0	14.3
121°	1.4	1.6	3.2	6.3	10.3	12.1	14.4
121.5°	1.5	1.7	3.3	6.4	10.4	12.2	14.4
122°	1.5	1.7	3.4	6.4	10.5	12.3	14.4
122.5°	1.5	1.8	3.4	6.5	10.6	12.4	14.4
123°	1.6	1.9	3.5	6.6	10.7	12.5	14.5
123.5°	1.6	1.9	3.6	6.7	10.8	12.6	14.5
124°	1.6	2.0	3.7	6.8	10.9	12.7	14.5
124.5°	1.7	2.0	3.8	6.9	11.0	12.7	14.5
125°	1.7	2.1	3.9	7.0	11.1	12.8	14.6
125.5°	1.8	2.2	4.0	7.1	11.1	12.9	14.6
126°	1.8	2.2	4.1	7.2	11.2	12.9	14.6
126.5°	1.9	2.3	4.2	7.3	11.3	13.0	14.6
127°	1.9	2.4	4.3	7.4	11.4	13.1	14.6
127.5°	2.0	2.5	4.4	7.5	11.5	13.2	14.6
128°	2.0	2.5	4.5	7.6	11.5	13.2	14.7
128.5°	2.1	2.6	4.6	7.7	11.6	13.3	14.7
129°	2.1	2.7	4.7	7.8	11.7	13.4	14.7
129.5°	2.2	2.8	4.8	7.9	11.7	13.5	14.7
130°	2.2	2.9	4.9	7.9	11.8	13.6	14.8
130.5°	2.3	3.0	5.0	8.0	11.9	13.6	14.8
131°	2.4	3.0	5.1	8.1	11.9	13.7	14.8
131.5°	2.4	3.1	5.2	8.2	12.0	13.8	14.9
132°	2.5	3.2	5.3	8.3	12.1	13.9	14.9
132.5°	2.6	3.3	5.4	8.4	12.1	14.0	15.0
133°	2.6	3.4	5.4	8.5	12.2	14.0	15.0
133.5°	2.7	3.5	5.5	8.6	12.3	14.1	15.0
134°	2.8	3.6	5.6	8.7	12.3	14.2	15.1
134.5°	2.8	3.6	5.7	8.8	12.4	14.3	15.1

REPORT NUMBER: P1197116

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

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	2.9	3.7	5.8	8.9	12.4	14.3	15.2
135.5°	3.0	3.8	5.9	9.0	12.5	14.4	15.2
136°	3.1	3.9	6.0	9.1	12.5	14.5	15.3
136.5°	3.1	4.0	6.1	9.2	12.6	14.5	15.3
137°	3.2	4.1	6.2	9.3	12.6	14.6	15.4
137.5°	3.3	4.2	6.3	9.3	12.7	14.6	15.5
138°	3.4	4.3	6.4	9.4	12.7	14.6	15.5
138.5°	3.5	4.4	6.5	9.5	12.8	14.7	15.6
139°	3.6	4.5	6.6	9.6	12.8	14.7	15.7
139.5°	3.7	4.6	6.7	9.7	12.9	14.7	15.7
140°	3.7	4.7	6.8	9.8	12.9	14.7	15.7
140.5°	3.8	4.8	7.0	9.9	12.9	14.7	15.7
141°	3.9	4.9	7.1	10.0	13.0	14.8	15.7
141.5°	4.0	5.1	7.2	10.0	13.0	14.8	15.7
142°	4.1	5.2	7.3	10.1	13.1	14.8	15.7
142.5°	4.2	5.3	7.4	10.2	13.1	14.8	15.7
143°	4.3	5.4	7.5	10.3	13.2	14.8	15.7
143.5°	4.4	5.5	7.6	10.4	13.2	14.8	15.7
144°	4.6	5.7	7.7	10.5	13.3	14.8	15.7
144.5°	4.7	5.8	7.8	10.5	13.3	14.8	15.7
145°	4.8	5.9	7.9	10.6	13.3	14.8	15.7
145.5°	4.9	6.0	8.0	10.7	13.4	14.8	15.7
146°	5.0	6.1	8.1	10.8	13.4	14.8	15.7
146.5°	5.1	6.2	8.2	10.9	13.4	14.8	15.7
147°	5.2	6.3	8.3	10.9	13.5	14.8	15.6
147.5°	5.3	6.4	8.4	11.0	13.5	14.8	15.6
148°	5.4	6.5	8.5	11.1	13.6	14.8	15.6
148.5°	5.5	6.6	8.6	11.2	13.6	14.8	15.5
149°	5.6	6.8	8.7	11.2	13.6	14.8	15.5
149.5°	5.7	6.8	8.8	11.3	13.7	14.8	15.5
150°	5.8	6.9	8.9	11.4	13.7	14.9	15.5
150.5°	5.9	7.0	9.0	11.5	13.8	14.9	15.5
151°	6.0	7.1	9.1	11.5	13.8	14.9	15.5
151.5°	6.1	7.3	9.2	11.6	13.9	14.9	15.5
152°	6.2	7.4	9.3	11.7	13.9	15.0	15.5
152.5°	6.3	7.5	9.4	11.8	14.0	15.0	15.5
153°	6.4	7.6	9.5	11.9	14.0	15.0	15.4
153.5°	6.5	7.7	9.6	12.0	14.1	15.1	15.4
154°	6.6	7.8	9.7	12.1	14.1	15.1	15.4
154.5°	6.7	7.9	9.8	12.1	14.2	15.1	15.4
155°	6.8	8.0	9.9	12.2	14.3	15.2	15.4
155.5°	6.9	8.1	10.0	12.3	14.3	15.2	15.3
156°	7.0	8.2	10.1	12.4	14.4	15.2	15.3
156.5°	7.1	8.3	10.2	12.4	14.4	15.2	15.3
157°	7.2	8.4	10.3	12.5	14.4	15.2	15.3

REPORT NUMBER: P1197116

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

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	7.3	8.5	10.4	12.6	14.5	15.2	15.3
158°	7.4	8.6	10.5	12.7	14.5	15.2	15.3
158.5°	7.5	8.7	10.6	12.7	14.5	15.2	15.3
159°	7.7	8.8	10.7	12.8	14.5	15.2	15.3
159.5°	7.8	8.9	10.8	12.9	14.6	15.2	15.3
160°	7.9	9.1	10.9	12.9	14.6	15.2	15.3
160.5°	8.0	9.2	11.0	13.0	14.6	15.2	15.3
161°	8.1	9.3	11.1	13.1	14.7	15.2	15.3
161.5°	8.3	9.4	11.2	13.1	14.7	15.2	15.2
162°	8.4	9.5	11.3	13.2	14.7	15.2	15.2
162.5°	8.5	9.6	11.4	13.2	14.7	15.2	15.2
163°	8.6	9.7	11.5	13.3	14.8	15.2	15.1
163.5°	8.7	9.8	11.6	13.3	14.8	15.2	15.1
164°	8.8	10.0	11.7	13.4	14.8	15.2	15.0
164.5°	9.0	10.1	11.8	13.5	14.8	15.2	15.0
165°	9.1	10.2	11.9	13.5	14.9	15.2	14.9
165.5°	9.2	10.3	12.0	13.6	14.9	15.2	14.9
166°	9.4	10.5	12.1	13.7	14.9	15.2	14.9
166.5°	9.5	10.6	12.2	13.7	14.9	15.2	14.9
167°	9.7	10.7	12.3	13.8	15.0	15.2	14.9
167.5°	9.8	10.9	12.4	13.9	15.0	15.2	14.9
168°	10.0	11.0	12.5	13.9	15.0	15.2	14.8
168.5°	10.1	11.1	12.6	14.0	15.0	15.2	14.8
169°	10.3	11.3	12.7	14.0	15.0	15.2	14.7
169.5°	10.4	11.4	12.8	14.1	15.0	15.2	14.7
170°	10.6	11.5	12.9	14.1	15.0	15.2	14.6
170.5°	10.8	11.7	13.0	14.2	15.0	15.2	14.6
171°	10.9	11.8	13.1	14.2	15.0	15.2	14.6
171.5°	11.0	11.9	13.2	14.3	15.0	15.2	14.5
172°	11.1	12.0	13.3	14.3	15.0	15.2	14.4
172.5°	11.3	12.1	13.3	14.3	15.0	15.1	14.3
173°	11.4	12.2	13.4	14.3	14.9	15.1	14.2
173.5°	11.5	12.3	13.5	14.4	14.9	15.0	14.2
174°	11.6	12.4	13.5	14.4	14.9	15.0	14.1
174.5°	11.8	12.5	13.6	14.4	14.9	15.0	14.0
175°	11.9	12.6	13.7	14.4	14.9	15.0	13.9
175.5°	12.0	12.7	13.8	14.5	14.9	14.9	13.8
176°	12.1	12.9	13.8	14.5	14.9	14.9	13.8
176.5°	12.2	13.0	13.9	14.5	14.9	14.8	13.7
177°	12.3	13.0	14.0	14.5	14.9	14.8	13.6
177.5°	12.4	13.1	14.1	14.6	14.8	14.7	13.5
178°	12.6	13.3	14.1	14.6	14.8	14.7	13.4
178.5°	12.7	13.4	14.2	14.6	14.8	14.6	13.3
179°	12.8	13.5	14.3	14.6	14.8	14.6	13.2
179.5°	12.9	13.6	14.3	14.6	14.8	14.5	13.1



REPORT NUMBER: P1197116
CATALOG NUMBER: AWPf150S-BZ-BZ-LOW-3000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	13.0	13.0	13.0	13.0	13.0	13.0	13.0

(END OF REPORT)