

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: P1197120

Luminaire Tested: AWPf150S-BZ-BZ-MID-4000K-POSITION 15

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197120
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-4000K-POSITION 15
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 4000K
Ballast/Driver: -

Summary

Lumens per Lamp: 19305 (1 lamp)
Luminaire Lumens: 17670.7 lumens
Efficiency: 91.5%
Efficacy: 146.2 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): 120.9
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

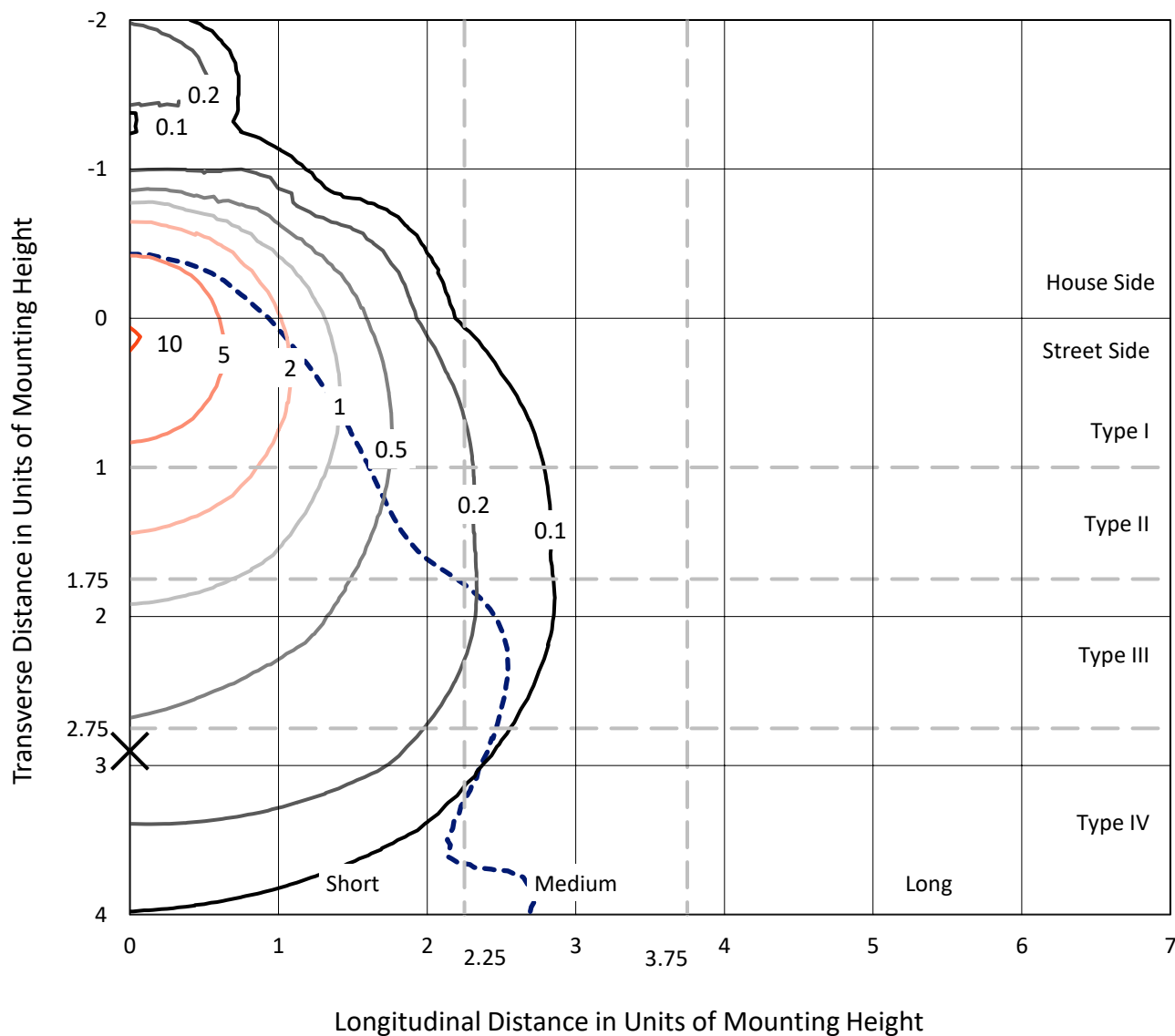
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

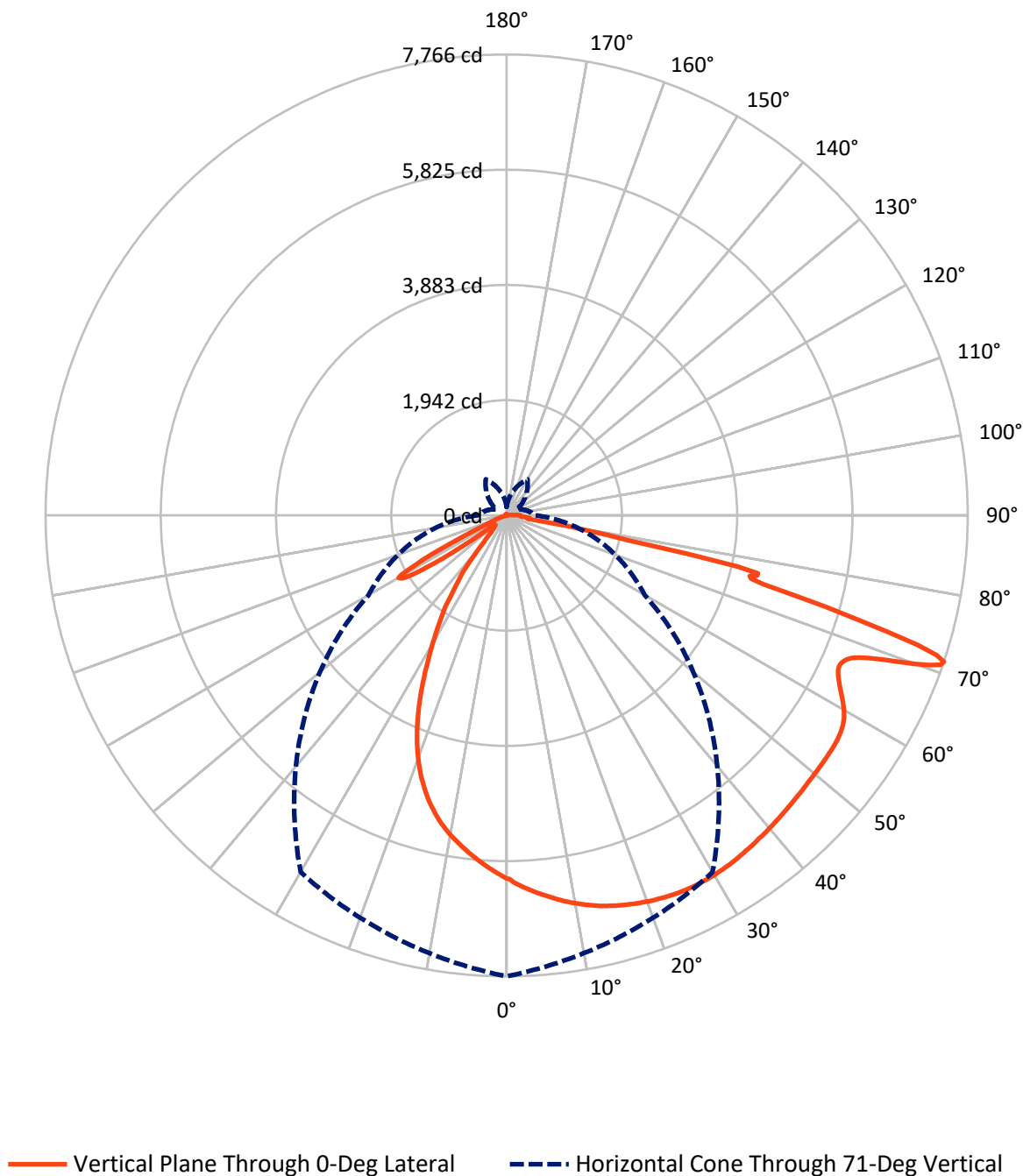


Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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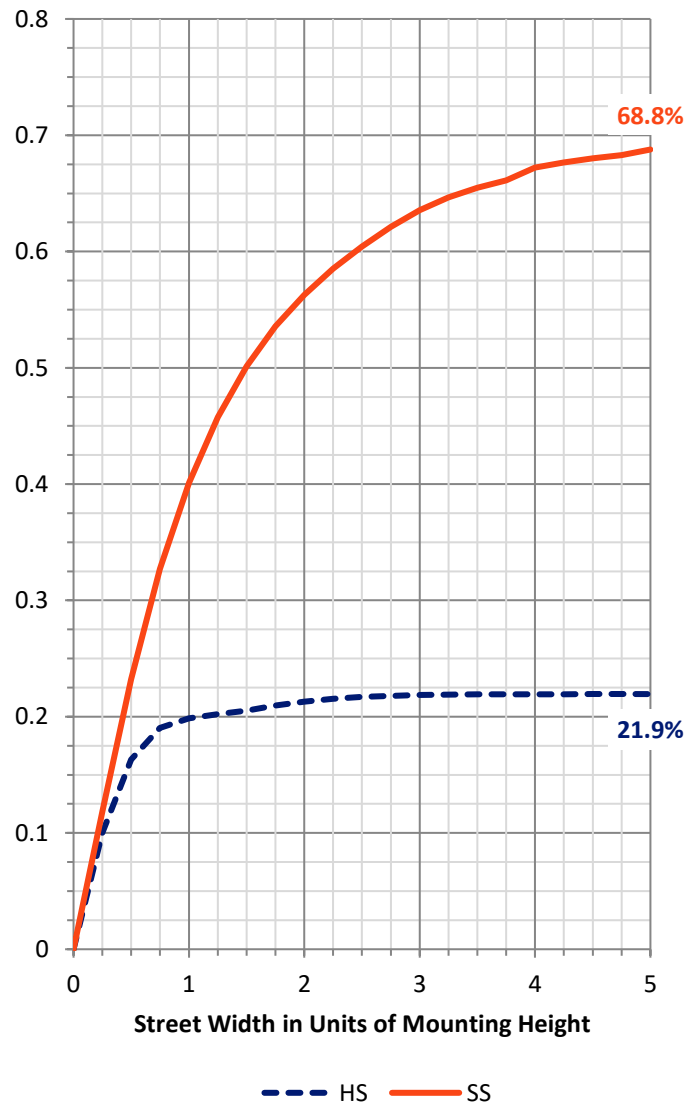
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4267.8	40.2	4307.9
	% Lamp	22.1	0.2	22.3
Street Side	Lumens	13307.2	55.5	13362.7
	% Lamp	68.9	0.3	69.2
Total	Lumens	17575.0	95.7	17670.7
	% Lamp	91.0	0.5	91.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	580.3	3.3	3.0
10°-20°	1661.2	9.4	8.6
20°-30°	2460.0	13.9	12.7
30°-40°	2800.7	15.8	14.5
40°-50°	2743.2	15.5	14.2
50°-60°	2654.6	15.0	13.8
60°-70°	2441.0	13.8	12.6
70°-80°	1866.5	10.6	9.7
80°-90°	367.5	2.1	1.9
90°-100°	42.6	0.2	0.2
100°-110°	6.4	0.0	0.0
110°-120°	7.5	0.0	0.0
120°-130°	8.6	0.0	0.0
130°-140°	8.9	0.1	0.0
140°-150°	8.4	0.0	0.0
150°-160°	6.9	0.0	0.0
160°-170°	4.7	0.0	0.0
170°-180°	1.7	0.0	0.0
0°-90°	17575.0	99.5	91.0
0°-180°	17670.7	100.0	91.5

Coefficient of Utilization



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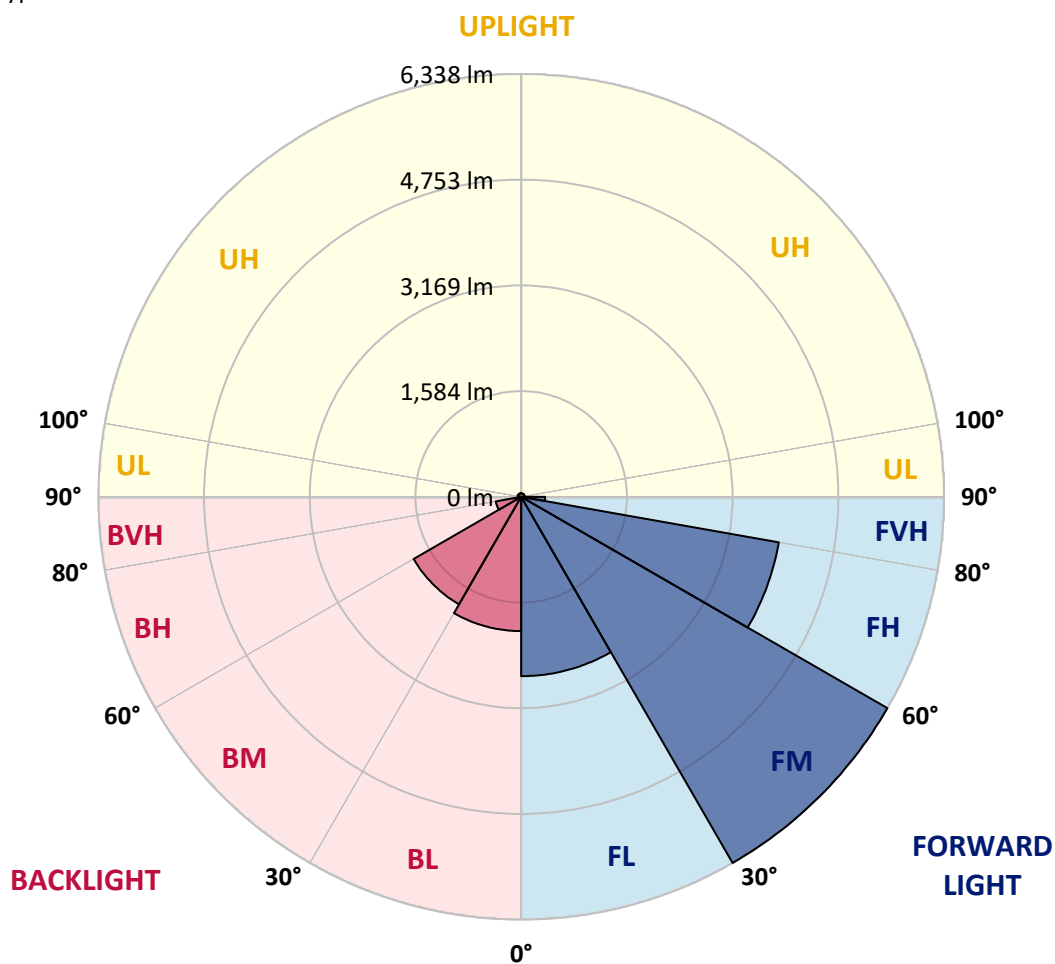
CATALOG NUMBER: AWPf150S-BZ-BZ-MID-4000K-POSITION 15

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2687.9	13.9			
FM	(30°-60°)	6337.6	32.8			
FH	(60°-80°)	3921.1	20.3			G2/5000
FVH	(80°-90°)	360.5	1.9			G3/500
BL	(0°-30°)	2013.6	10.4	B3/2500		
BM	(30°-60°)	1860.9	9.6	B2/2500		
BH	(60°-80°)	386.3	2.0	B1/500		G1/500
BVH	(80°-90°)	7.0	0.0			G0/10
UL	(90°-100°)	42.6	0.2		U2/50	
UH	(100°-180°)	53.1	0.3		U3/500	
Trapped Light		1634.3	8.5			

BUG Rating: B3-U3-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	6127.6	6127.6	6127.6	6127.6	6127.6	6127.6	6127.6
0.5°	6176.6	6175.3	6151.3	6125.8	6097.9	6065.7	6118.2
1°	6207.3	6198.6	6165.9	6125.0	6082.6	6039.1	6087.6
1.5°	6234.1	6221.9	6178.9	6122.5	6066.8	6012.8	6056.8
2°	6263.0	6245.3	6191.1	6120.7	6050.4	5985.2	6027.6
2.5°	6291.7	6269.2	6203.2	6118.2	6033.2	5959.6	5996.5
3°	6319.1	6292.2	6214.9	6114.8	6016.1	5933.6	5965.3
3.5°	6345.7	6314.9	6225.8	6110.7	5998.1	5905.9	5936.8
4°	6372.8	6336.6	6237.3	6106.5	5980.4	5878.0	5904.8
4.5°	6396.9	6359.4	6247.3	6101.5	5961.3	5850.5	5873.9
5°	6421.3	6378.9	6255.9	6094.2	5943.6	5821.9	5842.1
5.5°	6447.6	6398.5	6264.9	6088.0	5923.1	5791.7	5808.4
6°	6472.0	6417.4	6273.9	6080.6	5902.8	5762.4	5775.1
6.5°	6497.4	6437.6	6281.0	6073.0	5881.8	5731.5	5742.9
7°	6522.2	6457.1	6288.8	6063.0	5859.6	5699.7	5709.3
7.5°	6546.4	6476.6	6295.2	6054.5	5838.1	5670.4	5672.6
8°	6571.2	6494.7	6301.9	6044.9	5814.5	5637.4	5640.8
8.5°	6592.4	6513.4	6307.0	6035.4	5790.9	5603.6	5605.0
9°	6613.5	6531.3	6312.4	6024.2	5767.6	5572.4	5569.3
9.5°	6635.8	6547.3	6317.4	6012.4	5742.6	5538.8	5532.9
10°	6655.7	6563.2	6320.6	5999.3	5714.9	5506.4	5500.3
10.5°	6676.2	6578.5	6324.1	5986.2	5689.7	5472.7	5462.4
11°	6695.6	6593.8	6327.3	5972.8	5663.4	5438.0	5422.2
11.5°	6713.5	6606.8	6329.5	5958.9	5635.9	5401.6	5382.5
12°	6731.9	6620.6	6331.2	5945.1	5608.6	5364.5	5343.0
12.5°	6748.5	6633.6	6332.0	5929.1	5581.1	5326.5	5300.2
13°	6765.1	6645.2	6333.6	5913.3	5551.3	5287.9	5254.6
13.5°	6781.4	6655.3	6334.3	5895.8	5526.1	5247.6	5209.0
14°	6796.0	6667.7	6333.4	5879.0	5499.7	5206.3	5160.4
14.5°	6808.8	6678.3	6331.7	5860.7	5471.4	5163.0	5108.8
15°	6821.5	6687.3	6331.6	5840.5	5443.2	5117.2	5060.7
15.5°	6835.5	6696.3	6329.0	5821.5	5414.9	5071.3	5006.5
16°	6847.8	6705.5	6326.5	5801.3	5386.6	5023.8	4951.5
16.5°	6860.0	6712.3	6323.8	5780.7	5358.2	4972.3	4893.6
17°	6871.4	6719.9	6319.6	5760.1	5325.3	4921.9	4832.0
17.5°	6882.2	6725.9	6315.5	5738.0	5290.6	4869.0	4768.3
18°	6892.7	6732.3	6311.4	5715.8	5256.3	4813.6	4706.2
18.5°	6904.2	6737.5	6307.6	5694.6	5220.2	4758.9	4645.1
19°	6913.0	6743.2	6302.0	5671.5	5183.8	4700.7	4574.5
19.5°	6922.8	6747.2	6296.0	5648.3	5147.6	4641.7	4502.3
20°	6932.9	6750.6	6289.2	5625.0	5108.4	4580.7	4431.3
20.5°	6940.8	6755.4	6281.3	5600.7	5070.2	4519.0	4354.1
21°	6947.5	6759.8	6272.6	5574.5	5030.6	4449.2	4276.3
21.5°	6955.4	6761.4	6264.1	5549.8	4991.3	4382.3	4194.1
22°	6963.4	6762.9	6254.8	5526.7	4949.2	4313.0	4114.1

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	6969.1	6764.6	6246.3	5502.1	4906.5	4239.4	4025.3
23°	6974.9	6766.2	6236.1	5476.2	4864.1	4166.4	3936.6
23.5°	6981.5	6767.1	6225.8	5449.3	4820.3	4090.3	3845.5
24°	6986.6	6766.2	6214.7	5420.5	4775.7	4011.5	3757.0
24.5°	6990.7	6766.2	6203.5	5391.6	4727.9	3931.1	3662.0
25°	6994.7	6765.3	6190.8	5362.3	4680.0	3848.5	3565.0
25.5°	6998.0	6763.7	6178.3	5333.5	4631.3	3766.4	3468.2
26°	6998.4	6762.7	6165.5	5302.1	4581.0	3676.2	3370.3
26.5°	6998.8	6759.4	6151.3	5270.5	4530.0	3588.7	3269.3
27°	6999.2	6756.2	6137.8	5238.7	4478.2	3498.4	3165.1
27.5°	6999.6	6752.7	6123.2	5203.9	4422.2	3401.9	3063.9
28°	7000.0	6748.6	6107.6	5170.3	4367.5	3310.2	2964.4
28.5°	7000.3	6742.1	6091.5	5136.7	4311.2	3216.5	2864.0
29°	6997.8	6736.1	6075.3	5101.5	4251.8	3114.7	2767.6
29.5°	6996.2	6730.2	6058.4	5066.7	4191.6	3016.0	2670.0
30°	6992.0	6723.5	6041.2	5031.6	4131.3	2922.2	2572.9
30.5°	6989.2	6715.9	6021.3	4996.0	4069.4	2823.0	2482.9
31°	6984.5	6706.9	6001.4	4958.0	4007.9	2725.0	2397.9
31.5°	6981.8	6697.5	5982.5	4922.6	3942.5	2632.7	2313.1
32°	6976.9	6690.1	5961.3	4884.1	3877.0	2534.9	2228.2
32.5°	6972.7	6680.7	5942.2	4845.8	3809.8	2430.0	2143.5
33°	6966.1	6670.3	5919.4	4807.3	3741.0	2348.2	2058.6
33.5°	6960.2	6661.0	5896.6	4767.4	3669.8	2266.4	1982.4
34°	6955.0	6651.9	5874.3	4727.6	3597.6	2184.7	1911.6
34.5°	6949.2	6641.3	5849.4	4688.2	3522.6	2103.0	1825.8
35°	6941.6	6631.1	5823.7	4649.8	3446.1	2022.7	1704.3
35.5°	6935.1	6620.0	5799.5	4608.2	3367.5	1943.0	1600.7
36°	6929.3	6608.1	5774.1	4566.3	3288.6	1871.3	1511.5
36.5°	6923.3	6595.1	5746.2	4520.3	3205.1	1799.2	1432.6
37°	6915.8	6582.3	5718.5	4475.6	3123.4	1728.7	1362.0
37.5°	6908.5	6568.8	5693.5	4430.9	3040.2	1662.9	1290.9
38°	6902.6	6555.3	5665.3	4385.8	2954.4	1604.1	1209.6
38.5°	6896.6	6542.7	5635.0	4336.8	2866.8	1524.7	1112.7
39°	6890.6	6528.5	5606.8	4289.9	2778.2	1421.7	995.1
39.5°	6884.2	6515.3	5578.2	4242.4	2691.5	1329.7	879.5
40°	6878.2	6501.0	5548.3	4192.6	2603.9	1246.3	770.1
40.5°	6871.4	6486.8	5521.6	4142.4	2517.3	1173.7	677.9
41°	6864.8	6473.2	5495.0	4092.1	2431.3	1098.2	599.8
41.5°	6858.8	6458.6	5467.3	4040.1	2345.8	1014.5	539.6
42°	6851.2	6443.3	5439.5	3986.8	2261.2	913.6	484.8
42.5°	6844.8	6427.7	5411.8	3933.3	2182.5	810.6	438.2
43°	6838.8	6412.2	5384.1	3879.4	2107.8	706.7	401.1
43.5°	6832.4	6396.1	5356.0	3824.3	2037.5	622.0	371.3
44°	6824.9	6378.8	5323.5	3771.0	1972.8	552.1	347.9
44.5°	6819.7	6366.5	5290.8	3714.9	1910.1	504.1	331.2

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	6813.1	6350.0	5258.4	3657.7	1843.8	469.7	319.4
45.5°	6808.1	6332.6	5225.1	3601.2	1769.9	447.7	310.6
46°	6803.8	6316.0	5191.7	3542.9	1689.7	435.4	305.2
46.5°	6798.7	6300.7	5157.6	3486.6	1613.9	427.4	302.3
47°	6793.0	6284.0	5123.7	3429.3	1543.3	420.2	300.4
47.5°	6788.5	6266.3	5088.8	3372.6	1483.5	413.2	296.3
48°	6783.0	6251.4	5054.4	3315.1	1428.7	405.5	287.5
48.5°	6778.7	6237.5	5020.1	3258.0	1376.6	398.3	275.5
49°	6776.2	6222.7	4984.6	3201.7	1324.7	392.8	262.3
49.5°	6772.0	6209.3	4950.1	3145.6	1268.7	389.2	257.1
50°	6769.5	6194.7	4914.5	3090.0	1203.7	386.7	252.5
50.5°	6766.9	6182.1	4875.9	3035.0	1124.9	384.2	247.8
51°	6764.2	6172.0	4838.4	2976.4	1035.8	379.1	243.2
51.5°	6760.2	6159.6	4801.1	2920.2	940.4	371.7	250.6
52°	6757.6	6146.2	4759.8	2857.8	843.9	364.2	261.5
52.5°	6755.0	6135.8	4718.7	2796.7	761.3	358.8	274.0
53°	6752.5	6125.7	4678.4	2730.4	689.4	354.7	282.6
53.5°	6749.2	6116.3	4635.3	2665.2	634.0	350.8	283.5
54°	6745.8	6105.1	4591.8	2595.3	591.8	346.8	297.9
54.5°	6741.6	6094.4	4548.8	2527.6	562.4	343.2	487.4
55°	6735.9	6083.0	4503.7	2459.2	533.1	340.7	688.3
55.5°	6728.8	6074.1	4457.0	2391.5	503.7	338.7	889.3
56°	6719.7	6063.9	4411.1	2323.8	474.3	335.9	1090.3
56.5°	6709.2	6055.5	4363.0	2256.0	446.0	330.3	1291.2
57°	6694.0	6048.0	4312.0	2188.4	433.5	318.1	1452.3
57.5°	6677.9	6041.2	4262.4	2116.2	423.3	297.8	1611.6
58°	6655.0	6032.9	4209.3	2038.7	413.4	265.9	1770.7
58.5°	6627.9	6022.7	4154.0	1958.9	404.1	246.1	1904.3
59°	6595.6	6013.0	4100.2	1874.4	394.5	226.9	2005.5
59.5°	6560.7	5996.9	4044.3	1790.9	385.4	207.5	2057.6
60°	6519.6	5981.5	3988.1	1708.8	376.3	188.1	2084.4
60.5°	6475.4	5965.8	3930.5	1623.6	366.9	173.4	2100.4
61°	6427.5	5947.9	3874.4	1538.0	357.0	153.7	2043.7
61.5°	6380.6	5928.8	3818.6	1450.0	347.8	137.0	1906.0
62°	6336.5	5910.4	3762.9	1363.5	338.6	133.3	1756.1
62.5°	6292.5	5891.3	3707.0	1277.4	329.5	136.2	1616.2
63°	6254.0	5872.1	3646.3	1195.2	320.3	141.2	1452.1
63.5°	6217.2	5853.5	3581.3	1113.3	311.3	147.9	1252.7
64°	6185.1	5837.5	3517.6	1036.1	303.2	161.8	1041.2
64.5°	6160.5	5820.4	3454.6	963.8	295.9	199.3	819.5
65°	6150.0	5804.0	3392.0	900.1	289.3	351.2	639.2
65.5°	6155.4	5788.4	3331.8	846.1	282.3	505.4	517.0
66°	6177.3	5769.5	3271.1	802.0	275.0	659.6	432.0
66.5°	6218.2	5761.2	3213.4	766.8	267.9	814.0	373.3
67°	6283.5	5767.3	3158.0	729.5	261.6	968.5	325.5

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	6394.8	5801.6	3101.0	670.2	255.0	1025.6	286.7
68°	6553.0	5871.0	3042.0	603.6	247.1	1016.5	256.2
68.5°	6773.6	5967.6	2984.9	558.3	237.4	980.4	236.2
69°	7040.9	6117.0	2928.0	538.3	228.7	933.9	216.5
69.5°	7313.0	6299.4	2869.4	525.8	217.5	884.2	196.8
70°	7557.8	6519.5	2807.9	515.5	207.2	828.4	177.1
70.5°	7731.2	6748.0	2747.5	501.6	199.1	766.0	160.9
71°	7766.1	6937.6	2686.1	483.3	191.2	702.9	144.1
71.5°	7609.2	7053.4	2627.6	462.1	182.6	641.9	126.5
72°	7258.7	7087.6	2573.9	440.3	170.3	586.0	110.6
72.5°	6701.4	6970.8	2519.9	420.0	149.1	528.3	95.5
73°	6143.6	6696.6	2473.6	400.5	134.8	469.0	78.6
73.5°	5585.5	6288.1	2433.5	379.2	124.3	397.7	61.8
74°	5026.7	5743.1	2399.1	356.4	106.0	315.8	46.5
74.5°	4479.8	5190.8	2368.7	334.6	93.6	236.3	35.4
75°	4253.6	4713.5	2342.6	313.9	88.0	181.0	27.3
75.5°	4222.7	4319.1	2321.2	293.3	83.5	126.6	24.4
76°	4337.3	4036.0	2309.4	272.2	78.8	72.2	22.7
76.5°	4344.1	3893.4	2311.4	249.2	73.5	17.9	20.9
77°	3992.2	3975.1	2321.5	226.0	64.2	7.8	19.1
77.5°	3130.5	4155.7	2353.4	202.8	53.8	6.6	17.2
78°	2069.0	4243.5	2411.5	179.6	46.0	6.6	15.6
78.5°	1726.5	3963.0	2492.8	156.5	36.8	6.9	14.2
79°	1382.9	3294.6	2584.4	135.5	28.8	7.4	13.0
79.5°	1038.5	2452.8	2661.3	117.9	22.9	8.1	11.9
80°	695.5	2009.9	2701.1	104.9	18.8	8.7	11.0
80.5°	360.3	1592.4	2700.9	93.7	15.8	9.2	10.2
81°	355.4	1174.8	2663.7	84.2	13.2	9.5	9.4
81.5°	367.7	757.1	2598.0	75.6	10.4	9.7	8.9
82°	381.8	339.3	2495.3	67.6	8.1	9.7	8.4
82.5°	391.4	308.8	2350.1	60.3	6.0	9.7	8.0
83°	382.9	290.8	2167.0	53.6	5.2	9.7	7.7
83.5°	345.8	286.1	1922.0	47.4	5.0	9.7	7.5
84°	305.8	291.8	1668.0	42.0	4.8	9.5	7.4
84.5°	281.9	290.4	1419.4	37.1	4.7	9.4	7.3
85°	265.4	286.0	1199.0	32.6	4.6	9.1	7.2
85.5°	255.2	264.4	1009.0	28.6	4.5	8.9	7.1
86°	246.9	240.5	855.3	25.0	4.3	8.6	7.1
86.5°	234.6	216.7	758.7	21.7	4.2	8.2	7.1
87°	227.8	192.8	662.1	18.7	4.1	7.8	7.0
87.5°	229.7	169.0	565.5	15.7	4.0	7.4	7.0
88°	232.2	157.7	468.9	12.9	3.9	7.0	7.1
88.5°	231.7	145.4	373.0	10.5	3.8	6.5	7.2
89°	228.9	138.5	338.5	8.8	3.8	6.2	7.3
89.5°	224.3	135.4	310.0	7.0	3.8	5.8	7.4

REPORT NUMBER: P1197120

CATALOG NUMBER: AWP150S-BZ-BZ-MID-4000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	216.6	135.0	281.3	6.1	3.8	5.6	7.6
90.5°	204.1	136.6	255.7	5.9	3.8	5.4	7.7
91°	185.9	138.2	236.1	5.7	3.7	5.3	7.9
91.5°	161.9	138.8	218.5	5.5	3.7	5.3	8.1
92°	135.2	136.3	202.8	5.3	3.8	5.3	8.2
92.5°	112.5	129.2	187.4	5.2	3.8	5.2	8.4
93°	95.5	118.6	165.8	5.1	3.8	5.2	8.6
93.5°	81.6	107.6	123.5	5.0	3.9	5.3	8.8
94°	70.2	100.1	94.2	4.8	4.0	5.4	9.0
94.5°	61.0	94.2	56.8	4.7	4.0	5.5	9.2
95°	55.5	87.5	40.4	4.6	4.1	5.6	9.4
95.5°	53.4	78.7	30.6	4.5	4.2	5.8	9.6
96°	52.8	67.5	24.0	4.5	4.3	5.9	9.9
96.5°	51.8	55.6	20.8	4.4	4.4	6.1	10.1
97°	48.5	44.9	19.2	4.4	4.6	6.3	10.4
97.5°	44.1	35.0	17.8	4.4	4.7	6.5	10.6
98°	37.1	22.4	16.3	4.3	4.8	6.7	10.9
98.5°	28.3	8.9	14.9	4.3	5.0	6.8	11.0
99°	15.9	4.8	13.4	4.3	5.2	7.0	11.2
99.5°	6.5	3.4	12.0	4.3	5.3	7.2	11.4
100°	4.7	2.7	10.8	4.3	5.5	7.4	11.7
100.5°	3.6	2.4	9.6	4.3	5.7	7.6	11.9
101°	3.1	2.2	8.6	4.3	5.9	7.8	12.1
101.5°	2.5	2.1	7.7	4.3	6.1	8.0	12.4
102°	2.4	2.0	6.9	4.3	6.2	8.3	12.6
102.5°	2.4	1.9	6.2	4.3	6.4	8.5	12.8
103°	2.3	1.9	5.6	4.4	6.6	8.7	13.1
103.5°	2.3	1.8	5.1	4.4	6.8	8.9	13.3
104°	2.2	1.8	4.7	4.5	7.0	9.1	13.5
104.5°	2.2	1.7	4.3	4.5	7.2	9.3	13.7
105°	2.1	1.7	4.0	4.6	7.4	9.5	13.9
105.5°	2.0	1.7	3.7	4.7	7.6	9.7	14.1
106°	1.9	1.7	3.5	4.8	7.8	9.9	14.3
106.5°	1.8	1.6	3.3	4.9	8.0	10.2	14.5
107°	1.7	1.6	3.0	5.0	8.1	10.4	14.7
107.5°	1.7	1.6	2.8	5.2	8.3	10.6	14.9
108°	1.6	1.6	2.6	5.3	8.5	10.8	15.0
108.5°	1.6	1.6	2.4	5.4	8.7	11.0	15.2
109°	1.5	1.6	2.3	5.5	8.9	11.2	15.4
109.5°	1.5	1.6	2.3	5.6	9.1	11.4	15.5
110°	1.4	1.5	2.3	5.7	9.3	11.6	15.6
110.5°	1.4	1.5	2.4	5.8	9.5	11.8	15.8
111°	1.4	1.5	2.4	6.0	9.7	12.0	15.9
111.5°	1.3	1.4	2.4	6.1	9.9	12.2	16.1
112°	1.3	1.4	2.4	6.2	10.1	12.4	16.2

REPORT NUMBER: P1197120

CATALOG NUMBER: AWP150S-BZ-BZ-MID-4000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	1.3	1.4	2.4	6.3	10.3	12.6	16.4
113°	1.3	1.4	2.5	6.4	10.5	12.8	16.5
113.5°	1.3	1.4	2.6	6.5	10.7	13.0	16.7
114°	1.4	1.4	2.7	6.6	10.9	13.2	16.8
114.5°	1.4	1.5	2.7	6.7	11.1	13.4	17.0
115°	1.4	1.5	2.8	6.8	11.2	13.6	17.1
115.5°	1.4	1.5	2.9	6.9	11.4	13.8	17.2
116°	1.4	1.5	3.0	7.0	11.6	14.0	17.3
116.5°	1.5	1.5	3.1	7.1	11.8	14.2	17.4
117°	1.5	1.6	3.2	7.2	11.9	14.3	17.5
117.5°	1.5	1.6	3.3	7.3	12.1	14.5	17.6
118°	1.6	1.7	3.4	7.4	12.3	14.7	17.7
118.5°	1.6	1.8	3.5	7.5	12.4	14.8	17.8
119°	1.6	1.8	3.6	7.6	12.5	15.0	18.0
119.5°	1.7	1.9	3.7	7.7	12.7	15.1	18.1
120°	1.7	2.0	3.8	7.8	12.8	15.2	18.2
120.5°	1.8	2.0	4.0	7.9	13.0	15.3	18.3
121°	1.8	2.1	4.1	8.0	13.1	15.5	18.4
121.5°	1.9	2.2	4.2	8.1	13.3	15.6	18.4
122°	1.9	2.2	4.3	8.3	13.4	15.7	18.4
122.5°	1.9	2.3	4.4	8.4	13.5	15.9	18.5
123°	2.0	2.4	4.5	8.5	13.7	16.0	18.5
123.5°	2.0	2.5	4.6	8.6	13.8	16.1	18.5
124°	2.1	2.5	4.8	8.7	13.9	16.2	18.6
124.5°	2.1	2.6	4.9	8.8	14.0	16.3	18.6
125°	2.2	2.7	5.0	9.0	14.1	16.4	18.6
125.5°	2.3	2.8	5.1	9.1	14.3	16.5	18.7
126°	2.3	2.9	5.2	9.2	14.4	16.6	18.7
126.5°	2.4	3.0	5.4	9.3	14.5	16.7	18.7
127°	2.5	3.1	5.5	9.4	14.6	16.8	18.7
127.5°	2.5	3.2	5.6	9.6	14.7	16.8	18.7
128°	2.6	3.3	5.7	9.7	14.8	16.9	18.7
128.5°	2.6	3.4	5.9	9.8	14.8	17.0	18.8
129°	2.7	3.5	6.0	9.9	14.9	17.1	18.8
129.5°	2.8	3.6	6.1	10.1	15.0	17.2	18.8
130°	2.9	3.7	6.2	10.2	15.1	17.3	18.9
130.5°	3.0	3.8	6.3	10.3	15.2	17.5	18.9
131°	3.0	3.9	6.5	10.4	15.3	17.6	19.0
131.5°	3.1	4.0	6.6	10.5	15.4	17.7	19.0
132°	3.2	4.1	6.7	10.7	15.4	17.8	19.1
132.5°	3.3	4.2	6.9	10.8	15.5	17.9	19.1
133°	3.4	4.3	7.0	10.9	15.6	18.0	19.2
133.5°	3.5	4.4	7.1	11.0	15.7	18.0	19.3
134°	3.5	4.6	7.2	11.1	15.8	18.1	19.3
134.5°	3.6	4.7	7.3	11.2	15.8	18.2	19.4

REPORT NUMBER: P1197120

CATALOG NUMBER: AWP150S-BZ-BZ-MID-4000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	3.7	4.8	7.5	11.4	15.9	18.3	19.4
135.5°	3.8	4.9	7.6	11.5	16.0	18.4	19.5
136°	3.9	5.0	7.7	11.6	16.0	18.5	19.5
136.5°	4.0	5.1	7.9	11.7	16.1	18.6	19.6
137°	4.1	5.2	8.0	11.8	16.2	18.6	19.7
137.5°	4.2	5.3	8.1	12.0	16.2	18.7	19.8
138°	4.3	5.5	8.2	12.1	16.3	18.7	19.9
138.5°	4.4	5.6	8.4	12.2	16.3	18.7	20.0
139°	4.6	5.7	8.5	12.3	16.4	18.8	20.0
139.5°	4.7	5.9	8.6	12.4	16.4	18.8	20.1
140°	4.8	6.0	8.8	12.5	16.5	18.8	20.1
140.5°	4.9	6.2	8.9	12.6	16.6	18.9	20.1
141°	5.0	6.3	9.0	12.7	16.6	18.9	20.1
141.5°	5.2	6.5	9.2	12.9	16.7	18.9	20.1
142°	5.3	6.6	9.3	13.0	16.8	18.9	20.1
142.5°	5.4	6.8	9.4	13.1	16.8	18.9	20.1
143°	5.6	6.9	9.5	13.2	16.9	18.9	20.1
143.5°	5.7	7.1	9.7	13.3	16.9	18.9	20.1
144°	5.8	7.3	9.8	13.4	17.0	18.9	20.2
144.5°	6.0	7.4	10.0	13.5	17.0	18.9	20.1
145°	6.1	7.5	10.1	13.6	17.0	18.9	20.1
145.5°	6.2	7.7	10.2	13.7	17.1	19.0	20.1
146°	6.4	7.8	10.3	13.8	17.2	19.0	20.1
146.5°	6.5	8.0	10.5	13.9	17.2	19.0	20.0
147°	6.6	8.1	10.6	14.0	17.3	19.0	20.0
147.5°	6.8	8.2	10.7	14.1	17.3	19.0	20.0
148°	6.9	8.4	10.9	14.2	17.3	19.0	19.9
148.5°	7.0	8.5	11.0	14.3	17.4	19.0	19.9
149°	7.1	8.6	11.1	14.4	17.5	19.0	19.9
149.5°	7.3	8.8	11.2	14.5	17.5	19.0	19.9
150°	7.4	8.9	11.3	14.6	17.6	19.0	19.9
150.5°	7.5	9.0	11.5	14.7	17.6	19.1	19.9
151°	7.6	9.1	11.6	14.8	17.7	19.1	19.9
151.5°	7.8	9.3	11.7	14.9	17.7	19.1	19.8
152°	7.9	9.4	11.9	15.0	17.8	19.1	19.8
152.5°	8.0	9.5	12.0	15.1	17.9	19.2	19.8
153°	8.1	9.7	12.1	15.2	18.0	19.2	19.8
153.5°	8.3	9.8	12.3	15.3	18.0	19.3	19.7
154°	8.4	10.0	12.4	15.4	18.1	19.3	19.7
154.5°	8.5	10.1	12.6	15.5	18.2	19.4	19.7
155°	8.7	10.2	12.7	15.6	18.2	19.4	19.7
155.5°	8.8	10.4	12.8	15.7	18.3	19.4	19.6
156°	9.0	10.5	13.0	15.9	18.4	19.4	19.6
156.5°	9.1	10.6	13.1	15.9	18.4	19.5	19.6
157°	9.2	10.8	13.2	16.0	18.5	19.5	19.6

REPORT NUMBER: P1197120

CATALOG NUMBER: AWP150S-BZ-BZ-MID-4000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	9.4	10.9	13.3	16.1	18.5	19.5	19.6
158°	9.5	11.0	13.5	16.2	18.5	19.5	19.6
158.5°	9.7	11.2	13.6	16.3	18.6	19.5	19.6
159°	9.8	11.3	13.7	16.4	18.6	19.5	19.6
159.5°	9.9	11.4	13.8	16.5	18.7	19.5	19.6
160°	10.1	11.6	14.0	16.6	18.7	19.5	19.6
160.5°	10.3	11.7	14.1	16.6	18.7	19.5	19.6
161°	10.4	11.9	14.2	16.7	18.8	19.5	19.5
161.5°	10.6	12.0	14.4	16.8	18.8	19.5	19.5
162°	10.7	12.2	14.5	16.9	18.8	19.5	19.5
162.5°	10.9	12.3	14.6	16.9	18.9	19.5	19.4
163°	11.0	12.5	14.7	17.0	18.9	19.5	19.4
163.5°	11.1	12.6	14.8	17.1	18.9	19.5	19.3
164°	11.3	12.7	15.0	17.1	18.9	19.5	19.2
164.5°	11.5	12.9	15.1	17.2	19.0	19.5	19.1
165°	11.6	13.1	15.2	17.3	19.0	19.5	19.1
165.5°	11.8	13.2	15.4	17.4	19.1	19.5	19.0
166°	12.0	13.4	15.5	17.5	19.1	19.5	19.0
166.5°	12.2	13.5	15.6	17.6	19.1	19.5	19.0
167°	12.4	13.7	15.7	17.6	19.2	19.5	19.0
167.5°	12.5	13.9	15.9	17.7	19.2	19.5	19.0
168°	12.8	14.1	16.0	17.8	19.2	19.5	19.0
168.5°	13.0	14.2	16.2	17.9	19.2	19.5	18.9
169°	13.2	14.4	16.3	18.0	19.2	19.5	18.9
169.5°	13.4	14.6	16.4	18.0	19.2	19.5	18.8
170°	13.6	14.8	16.5	18.1	19.2	19.5	18.7
170.5°	13.8	14.9	16.7	18.2	19.2	19.5	18.7
171°	13.9	15.1	16.8	18.2	19.2	19.5	18.6
171.5°	14.1	15.2	16.9	18.3	19.2	19.5	18.6
172°	14.3	15.3	17.0	18.3	19.2	19.4	18.5
172.5°	14.4	15.5	17.0	18.3	19.2	19.4	18.3
173°	14.6	15.6	17.1	18.3	19.1	19.3	18.2
173.5°	14.7	15.7	17.2	18.4	19.1	19.3	18.1
174°	14.9	15.9	17.3	18.4	19.1	19.2	18.0
174.5°	15.0	16.0	17.4	18.5	19.1	19.2	17.9
175°	15.2	16.2	17.5	18.5	19.1	19.1	17.8
175.5°	15.3	16.3	17.6	18.5	19.1	19.1	17.7
176°	15.5	16.4	17.7	18.5	19.1	19.0	17.6
176.5°	15.6	16.6	17.8	18.6	19.1	19.0	17.5
177°	15.8	16.7	17.9	18.6	19.0	18.9	17.4
177.5°	15.9	16.8	18.0	18.6	19.0	18.9	17.3
178°	16.1	17.0	18.1	18.7	19.0	18.8	17.1
178.5°	16.2	17.1	18.2	18.7	18.9	18.7	17.0
179°	16.4	17.2	18.2	18.7	18.9	18.7	16.9
179.5°	16.5	17.4	18.3	18.7	18.9	18.6	16.8



REPORT NUMBER: P1197120
CATALOG NUMBER: AWPf150S-BZ-BZ-MID-4000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	16.6	16.6	16.6	16.6	16.6	16.6	16.6

(END OF REPORT)