

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: P1197231

Luminaire Tested: AWPS150S-BZ-BZ-MID-5000K-POSITION 15

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197231
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-MID-5000K-POSITION 15
Description: AWP Architectural
Light Source: 80 CRI, 5000K
Ballast/Driver: -

Summary

Lumens per Lamp: 19305 (1 lamp)
Luminaire Lumens: 17519.7 lumens
Efficiency: 90.8%
Efficacy: 140.8 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

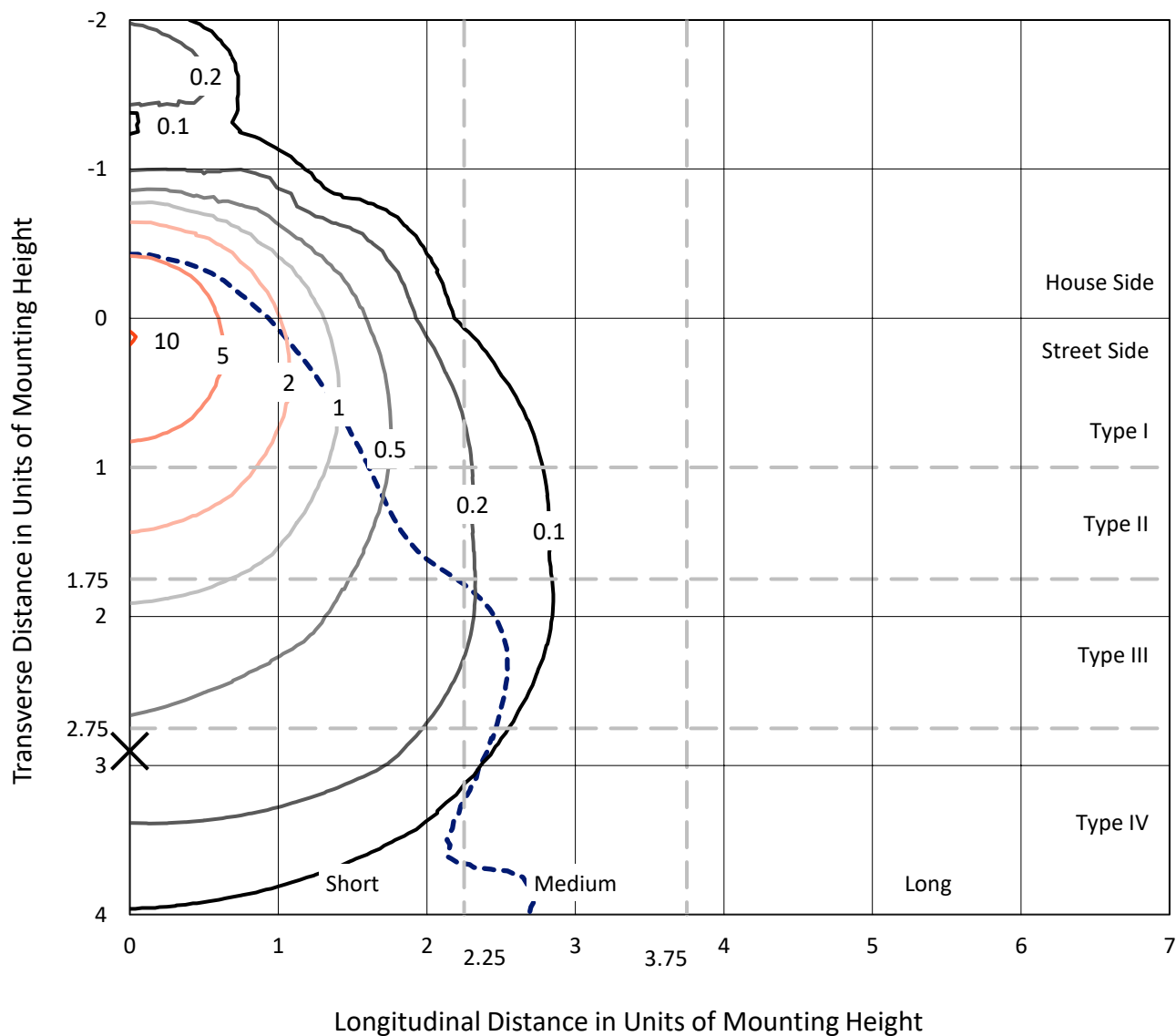
Input Watts (W): 124.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1197231

CATALOG NUMBER: AWPS150S-BZ-BZ-MID-5000K-POSITION 15

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

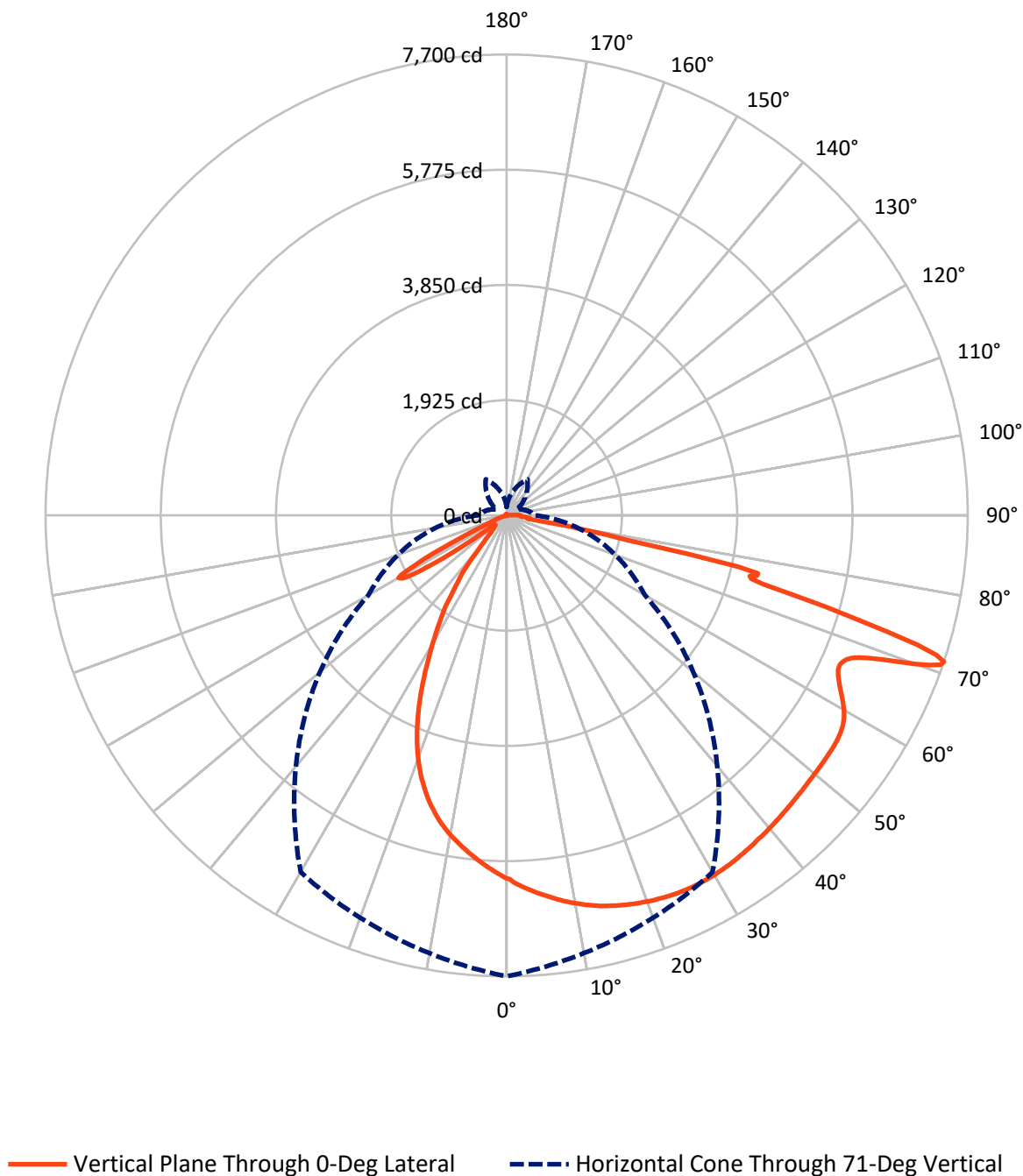


Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P1197231

CATALOG NUMBER: AWPS150S-BZ-BZ-MID-5000K-POSITION 15

Luminous Intensity Polar Plot



REPORT NUMBER: P1197231

CATALOG NUMBER: AWPS150S-BZ-BZ-MID-5000K-POSITION 15

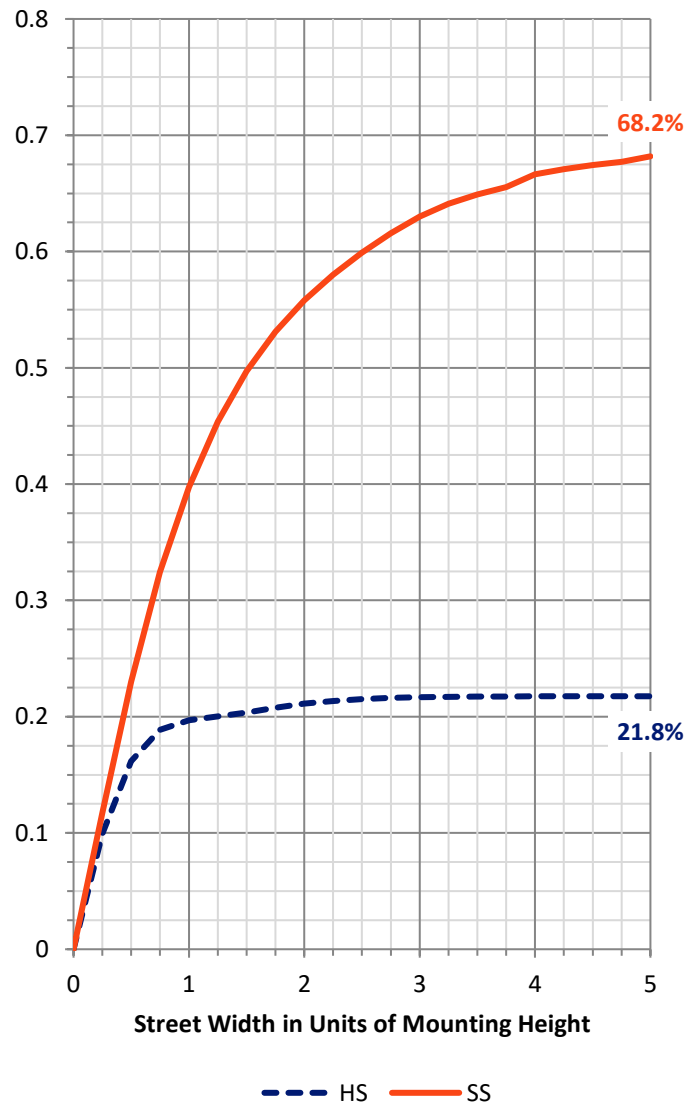
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4231.3	39.8	4271.1
	% Lamp	21.9	0.2	22.1
Street Side	Lumens	13193.5	55.0	13248.6
	% Lamp	68.3	0.3	68.6
Total	Lumens	17424.8	94.9	17519.7
	% Lamp	90.3	0.5	90.8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	575.4	3.3	3.0
10°-20°	1647.0	9.4	8.5
20°-30°	2439.0	13.9	12.6
30°-40°	2776.8	15.8	14.4
40°-50°	2719.7	15.5	14.1
50°-60°	2631.9	15.0	13.6
60°-70°	2420.1	13.8	12.5
70°-80°	1850.5	10.6	9.6
80°-90°	364.4	2.1	1.9
90°-100°	42.3	0.2	0.2
100°-110°	6.3	0.0	0.0
110°-120°	7.4	0.0	0.0
120°-130°	8.5	0.0	0.0
130°-140°	8.9	0.1	0.0
140°-150°	8.3	0.0	0.0
150°-160°	6.9	0.0	0.0
160°-170°	4.6	0.0	0.0
170°-180°	1.7	0.0	0.0
0°-90°	17424.8	99.5	90.3
0°-180°	17519.7	100.0	90.8

Coefficient of Utilization



REPORT NUMBER: P1197231

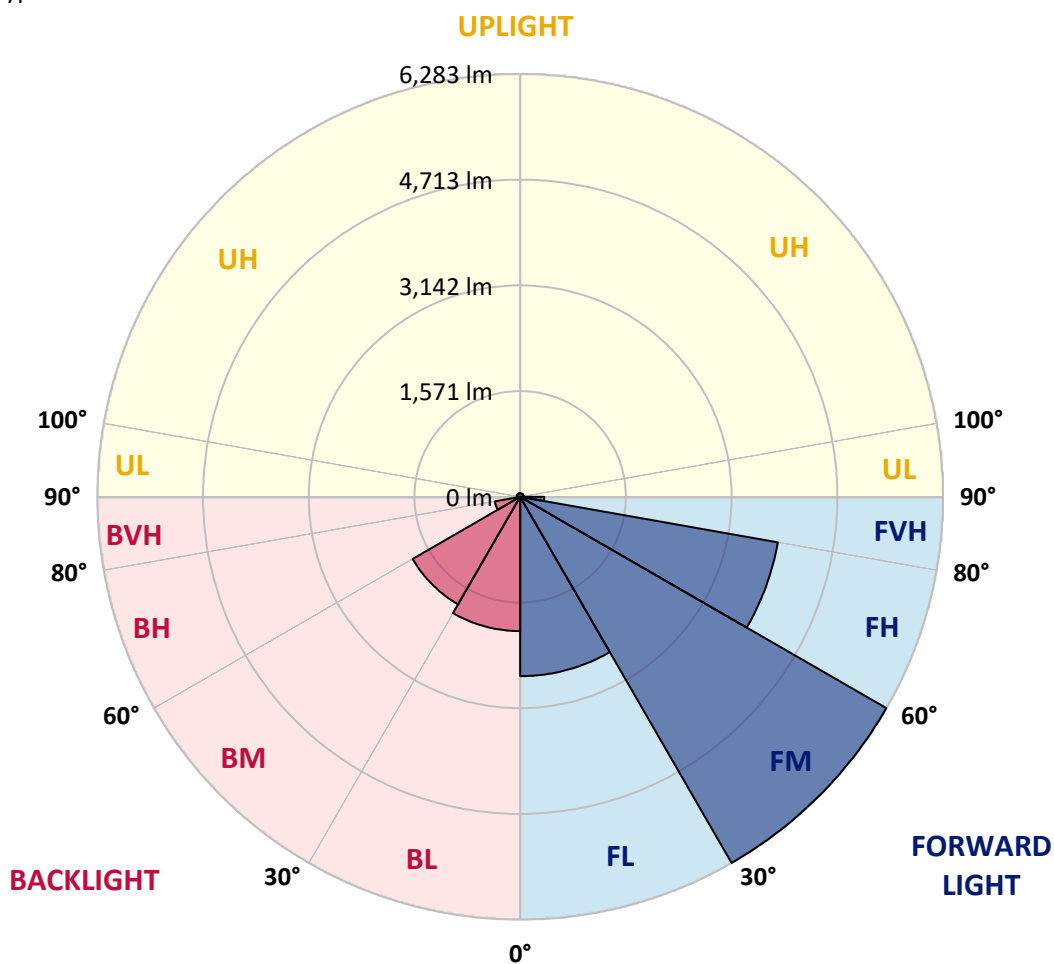
CATALOG NUMBER: AWPS150S-BZ-BZ-MID-5000K-POSITION 15

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2664.9	13.8			
FM	(30°-60°)	6283.5	32.5			
FH	(60°-80°)	3887.6	20.1			G2/5000
FVH	(80°-90°)	357.4	1.9			G3/500
BL	(0°-30°)	1996.4	10.3	B3/2500		
BM	(30°-60°)	1845.0	9.6	B2/2500		
BH	(60°-80°)	383.0	2.0	B1/500		G1/500
BVH	(80°-90°)	6.9	0.0			G0/10
UL	(90°-100°)	42.3	0.2		U2/50	
UH	(100°-180°)	52.6	0.3		U3/500	
Trapped Light		1785.3	9.2			

BUG Rating: B3-U3-G3

Type IV Short



REPORT NUMBER: P1197231

CATALOG NUMBER: AWPS150S-BZ-BZ-MID-5000K-POSITION 15

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	6075.3	6075.3	6075.3	6075.3	6075.3	6075.3	6075.3
0.5°	6123.8	6122.6	6098.7	6073.5	6045.8	6013.9	6065.9
1°	6154.3	6145.6	6113.2	6072.6	6030.7	5987.5	6035.6
1.5°	6180.9	6168.8	6126.1	6070.2	6015.0	5961.4	6005.0
2°	6209.5	6192.0	6138.2	6068.4	5998.7	5934.1	5976.1
2.5°	6238.0	6215.6	6150.2	6065.9	5981.7	5908.6	5945.3
3°	6265.1	6238.5	6161.8	6062.6	5964.7	5882.9	5914.3
3.5°	6291.5	6261.0	6172.6	6058.5	5946.9	5855.4	5886.1
4°	6318.3	6282.4	6184.1	6054.3	5929.3	5827.8	5854.4
4.5°	6342.2	6305.1	6193.9	6049.3	5910.4	5800.5	5823.7
5°	6366.4	6324.4	6202.5	6042.1	5892.8	5772.1	5792.2
5.5°	6392.5	6343.9	6211.3	6036.0	5872.5	5742.3	5758.8
6°	6416.7	6362.5	6220.3	6028.6	5852.4	5713.1	5725.8
6.5°	6441.9	6382.6	6227.4	6021.1	5831.5	5682.6	5693.8
7°	6466.5	6401.9	6235.1	6011.2	5809.6	5651.0	5660.5
7.5°	6490.4	6421.3	6241.4	6002.8	5788.2	5622.0	5624.1
8°	6515.1	6439.2	6248.0	5993.3	5764.9	5589.3	5592.6
8.5°	6536.1	6457.7	6253.1	5983.9	5741.4	5555.7	5557.1
9°	6557.0	6475.5	6258.5	5972.7	5718.3	5524.8	5521.7
9.5°	6579.1	6491.4	6263.4	5961.1	5693.5	5491.5	5485.6
10°	6598.8	6507.1	6266.6	5948.0	5666.1	5459.4	5453.3
10.5°	6619.1	6522.3	6270.0	5935.1	5641.1	5425.9	5415.7
11°	6638.4	6537.4	6273.2	5921.8	5615.0	5391.5	5375.9
11.5°	6656.2	6550.4	6275.5	5908.0	5587.8	5355.5	5336.5
12°	6674.4	6564.0	6277.1	5894.3	5560.7	5318.7	5297.3
12.5°	6690.9	6577.0	6277.9	5878.4	5533.5	5281.0	5254.9
13°	6707.3	6588.4	6279.5	5862.8	5503.9	5242.7	5209.7
13.5°	6723.4	6598.4	6280.2	5845.5	5478.9	5202.8	5164.5
14°	6738.0	6610.7	6279.3	5828.8	5452.7	5161.8	5116.3
14.5°	6750.6	6621.3	6277.6	5810.7	5424.7	5118.9	5065.2
15°	6763.2	6630.1	6277.5	5790.6	5396.7	5073.5	5017.5
15.5°	6777.1	6639.1	6274.9	5771.8	5368.6	5027.9	4963.7
16°	6789.3	6648.2	6272.5	5751.7	5340.6	4980.9	4909.2
16.5°	6801.4	6655.0	6269.8	5731.3	5312.5	4929.8	4851.8
17°	6812.7	6662.5	6265.6	5710.8	5279.8	4879.9	4790.7
17.5°	6823.4	6668.4	6261.6	5689.0	5245.4	4827.4	4727.6
18°	6833.8	6674.8	6257.4	5666.9	5211.3	4772.5	4666.0
18.5°	6845.2	6680.0	6253.7	5646.0	5175.6	4718.2	4605.4
19°	6854.0	6685.6	6248.1	5623.0	5139.5	4660.6	4535.5
19.5°	6863.7	6689.6	6242.2	5600.1	5103.6	4602.1	4463.8
20°	6873.6	6692.9	6235.5	5577.0	5064.7	4541.6	4393.5
20.5°	6881.5	6697.7	6227.7	5552.9	5026.9	4480.4	4316.9
21°	6888.1	6702.0	6219.0	5526.9	4987.7	4411.2	4239.8
21.5°	6895.9	6703.6	6210.5	5502.4	4948.6	4344.8	4158.3
22°	6903.9	6705.2	6201.4	5479.5	4906.9	4276.2	4078.9

REPORT NUMBER: P1197231

CATALOG NUMBER: AWPS150S-BZ-BZ-MID-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	6909.5	6706.8	6193.0	5455.1	4864.6	4203.2	3990.9
23°	6915.3	6708.4	6182.8	5429.4	4822.6	4130.8	3902.9
23.5°	6921.9	6709.2	6172.6	5402.7	4779.1	4055.4	3812.7
24°	6927.0	6708.4	6161.6	5374.2	4734.9	3977.2	3724.9
24.5°	6930.9	6708.4	6150.5	5345.6	4687.5	3897.6	3630.7
25°	6934.9	6707.5	6137.9	5316.5	4640.0	3815.6	3534.5
25.5°	6938.2	6705.9	6125.5	5287.9	4591.7	3734.2	3438.6
26°	6938.7	6705.0	6112.9	5256.8	4541.8	3644.8	3341.5
26.5°	6939.0	6701.6	6098.7	5225.5	4491.3	3558.0	3241.4
27°	6939.4	6698.5	6085.4	5193.9	4439.9	3468.5	3138.1
27.5°	6939.8	6695.0	6070.9	5159.5	4384.4	3372.8	3037.7
28°	6940.2	6690.9	6055.4	5126.2	4330.2	3281.9	2939.1
28.5°	6940.5	6684.5	6039.4	5092.8	4274.4	3189.0	2839.5
29°	6938.0	6678.6	6023.4	5058.0	4215.5	3088.1	2744.0
29.5°	6936.4	6672.7	6006.6	5023.4	4155.8	2990.2	2647.2
30°	6932.2	6666.0	5989.5	4988.6	4096.0	2897.2	2550.9
30.5°	6929.5	6658.5	5969.9	4953.3	4034.6	2798.9	2461.7
31°	6924.8	6649.6	5950.1	4915.6	3973.7	2701.7	2377.4
31.5°	6922.2	6640.3	5931.4	4880.5	3908.8	2610.2	2293.3
32°	6917.3	6632.9	5910.4	4842.4	3843.9	2513.2	2209.2
32.5°	6913.1	6623.6	5891.4	4804.4	3777.3	2409.3	2125.1
33°	6906.6	6613.3	5868.9	4766.2	3709.1	2328.1	2041.0
33.5°	6900.8	6604.1	5846.2	4726.7	3638.4	2247.1	1965.4
34°	6895.6	6595.1	5824.1	4687.2	3566.9	2166.0	1895.3
34.5°	6889.9	6584.5	5799.4	4648.1	3492.5	2085.0	1810.2
35°	6882.3	6574.5	5774.0	4610.1	3416.6	2005.4	1689.7
35.5°	6875.9	6563.4	5749.9	4568.9	3338.7	1926.4	1587.1
36°	6870.1	6551.7	5724.8	4527.3	3260.5	1855.3	1498.6
36.5°	6864.2	6538.7	5697.1	4481.7	3177.7	1783.8	1420.4
37°	6856.7	6526.0	5669.6	4437.4	3096.8	1713.9	1350.3
37.5°	6849.5	6512.7	5644.9	4393.1	3014.2	1648.7	1279.9
38°	6843.6	6499.3	5616.9	4348.3	2929.2	1590.4	1199.2
38.5°	6837.7	6486.8	5586.8	4299.8	2842.3	1511.6	1103.2
39°	6831.7	6472.7	5558.9	4253.2	2754.5	1409.6	986.6
39.5°	6825.4	6459.6	5530.5	4206.2	2668.5	1318.3	871.9
40°	6819.5	6445.5	5500.9	4156.8	2581.6	1235.6	763.5
40.5°	6812.7	6431.3	5474.4	4107.0	2495.8	1163.7	672.2
41°	6806.1	6417.9	5448.1	4057.1	2410.5	1088.8	594.7
41.5°	6800.2	6403.5	5420.6	4005.6	2325.7	1005.8	535.0
42°	6792.7	6388.3	5393.0	3952.7	2241.8	905.8	480.6
42.5°	6786.4	6372.7	5365.6	3899.7	2163.8	803.6	434.5
43°	6780.4	6357.4	5338.1	3846.3	2089.8	700.6	397.7
43.5°	6774.0	6341.5	5310.3	3791.6	2020.1	616.7	368.1
44°	6766.6	6324.3	5278.1	3738.8	1955.9	547.4	344.9
44.5°	6761.5	6312.2	5245.6	3683.2	1893.8	499.8	328.3

REPORT NUMBER: P1197231

CATALOG NUMBER: AWPS150S-BZ-BZ-MID-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	6754.9	6295.8	5213.5	3626.5	1828.1	465.7	316.7
45.5°	6749.9	6278.5	5180.5	3570.5	1754.8	443.9	308.0
46°	6745.7	6262.0	5147.3	3512.7	1675.3	431.7	302.6
46.5°	6740.6	6246.9	5113.6	3456.8	1600.1	423.7	299.7
47°	6734.9	6230.3	5079.9	3400.0	1530.1	416.6	297.8
47.5°	6730.5	6212.8	5045.3	3343.7	1470.8	409.7	293.8
48°	6725.1	6198.0	5011.2	3286.7	1416.5	402.0	285.1
48.5°	6720.8	6184.2	4977.2	3230.2	1364.8	394.9	273.1
49°	6718.3	6169.5	4942.0	3174.4	1313.4	389.5	260.1
49.5°	6714.2	6156.3	4907.8	3118.8	1257.8	385.9	254.9
50°	6711.6	6141.8	4872.5	3063.6	1193.4	383.4	250.3
50.5°	6709.1	6129.3	4834.2	3009.1	1115.3	380.9	245.7
51°	6706.4	6119.2	4797.1	2951.0	1027.0	375.8	241.1
51.5°	6702.5	6107.0	4760.0	2895.3	932.4	368.5	248.5
52°	6699.8	6093.7	4719.2	2833.3	836.7	361.1	259.2
52.5°	6697.3	6083.4	4678.4	2772.8	754.8	355.7	271.6
53°	6694.8	6073.4	4638.4	2707.1	683.5	351.7	280.2
53.5°	6691.5	6064.1	4595.7	2642.5	628.5	347.9	281.1
54°	6688.2	6052.9	4552.6	2573.2	586.7	343.8	295.3
54.5°	6684.0	6042.3	4510.0	2506.0	557.6	340.3	483.2
55°	6678.3	6031.0	4465.2	2438.2	528.5	337.8	682.4
55.5°	6671.3	6022.2	4418.9	2371.1	499.4	335.8	881.7
56°	6662.3	6012.1	4373.4	2304.0	470.3	333.1	1081.0
56.5°	6651.9	6003.8	4325.7	2236.7	442.2	327.4	1280.2
57°	6636.8	5996.3	4275.2	2169.7	429.8	315.4	1439.9
57.5°	6620.8	5989.6	4225.9	2098.2	419.7	295.3	1597.9
58°	6598.2	5981.3	4173.3	2021.2	409.9	263.6	1755.6
58.5°	6571.2	5971.2	4118.5	1942.2	400.6	244.0	1888.0
59°	6539.3	5961.6	4065.2	1858.4	391.1	224.9	1988.3
59.5°	6504.7	5945.6	4009.7	1775.6	382.1	205.7	2040.0
60°	6463.9	5930.4	3954.0	1694.2	373.1	186.5	2066.6
60.5°	6420.1	5914.8	3897.0	1609.7	363.7	171.9	2082.4
61°	6372.6	5897.0	3841.3	1524.9	354.0	152.4	2026.3
61.5°	6326.1	5878.1	3785.9	1437.6	344.8	135.8	1889.7
62°	6282.3	5859.9	3730.8	1351.9	335.7	132.1	1741.1
62.5°	6238.8	5841.0	3675.3	1266.5	326.7	135.1	1602.4
63°	6200.6	5822.0	3615.2	1185.0	317.5	140.0	1439.7
63.5°	6164.1	5803.5	3550.7	1103.8	308.6	146.7	1242.0
64°	6132.2	5787.6	3487.6	1027.2	300.6	160.4	1032.3
64.5°	6107.8	5770.7	3425.1	955.6	293.4	197.6	812.5
65°	6097.5	5754.5	3363.0	892.4	286.8	348.2	633.7
65.5°	6102.9	5738.9	3303.4	838.9	279.9	501.1	512.5
66°	6124.6	5720.2	3243.1	795.2	272.6	654.0	428.3
66.5°	6165.1	5712.0	3185.9	760.2	265.6	807.1	370.1
67°	6229.8	5718.0	3131.0	723.2	259.3	960.2	322.7

REPORT NUMBER: P1197231

CATALOG NUMBER: AWPS150S-BZ-BZ-MID-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	6340.1	5752.0	3074.5	664.4	252.8	1016.9	284.2
68°	6497.0	5820.9	3016.0	598.4	245.0	1007.8	254.0
68.5°	6715.7	5916.7	2959.4	553.5	235.4	972.0	234.2
69°	6980.8	6064.7	2903.0	533.7	226.7	925.9	214.7
69.5°	7250.6	6245.6	2844.9	521.3	215.7	876.6	195.1
70°	7493.2	6463.9	2783.9	511.1	205.4	821.3	175.6
70.5°	7665.2	6690.3	2724.1	497.3	197.4	759.5	159.6
71°	7699.8	6878.3	2663.1	479.2	189.6	696.9	142.8
71.5°	7544.2	6993.1	2605.2	458.1	181.0	636.4	125.4
72°	7196.7	7027.0	2551.9	436.5	168.8	581.0	109.6
72.5°	6644.2	6911.2	2498.4	416.4	147.8	523.8	94.7
73°	6091.1	6639.4	2452.5	397.1	133.7	465.0	77.9
73.5°	5537.7	6234.4	2412.7	375.9	123.2	394.3	61.3
74°	4983.8	5694.0	2378.6	353.3	105.1	313.1	46.1
74.5°	4441.6	5146.5	2348.5	331.8	92.8	234.3	35.1
75°	4217.2	4673.3	2322.6	311.2	87.3	179.5	27.0
75.5°	4186.6	4282.2	2301.4	290.8	82.8	125.6	24.2
76°	4300.2	4001.5	2289.7	269.9	78.1	71.6	22.5
76.5°	4307.0	3860.2	2291.7	247.0	72.9	17.7	20.8
77°	3958.1	3941.1	2301.6	224.1	63.7	7.7	19.0
77.5°	3103.7	4120.2	2333.3	201.1	53.4	6.6	17.1
78°	2051.3	4207.2	2390.9	178.1	45.6	6.6	15.5
78.5°	1711.8	3929.1	2471.5	155.1	36.5	6.9	14.0
79°	1371.0	3266.4	2562.3	134.4	28.6	7.3	12.8
79.5°	1029.6	2431.9	2638.6	116.9	22.7	8.0	11.8
80°	689.5	1992.7	2678.0	104.0	18.7	8.6	10.9
80.5°	357.2	1578.8	2677.8	92.9	15.6	9.1	10.1
81°	352.3	1164.8	2640.9	83.4	13.1	9.4	9.4
81.5°	364.5	750.6	2575.8	75.0	10.3	9.6	8.8
82°	378.6	336.4	2474.0	67.0	8.0	9.6	8.3
82.5°	388.1	306.2	2330.0	59.8	6.0	9.6	7.9
83°	379.6	288.3	2148.5	53.2	5.1	9.6	7.7
83.5°	342.9	283.7	1905.6	47.0	4.9	9.6	7.5
84°	303.2	289.3	1653.7	41.7	4.8	9.5	7.3
84.5°	279.4	287.9	1407.3	36.8	4.7	9.3	7.2
85°	263.1	283.6	1188.7	32.3	4.5	9.1	7.1
85.5°	253.1	262.2	1000.4	28.4	4.4	8.8	7.1
86°	244.8	238.4	848.0	24.8	4.3	8.5	7.0
86.5°	232.6	214.8	752.3	21.5	4.2	8.1	7.0
87°	225.9	191.2	656.5	18.5	4.1	7.7	7.0
87.5°	227.8	167.6	560.7	15.6	4.0	7.3	7.0
88°	230.2	156.4	464.9	12.8	3.9	6.9	7.0
88.5°	229.7	144.2	369.8	10.4	3.8	6.5	7.1
89°	227.0	137.3	335.6	8.7	3.8	6.1	7.2
89.5°	222.4	134.2	307.4	7.0	3.8	5.8	7.4

REPORT NUMBER: P1197231

CATALOG NUMBER: AWPS150S-BZ-BZ-MID-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	214.8	133.8	278.9	6.1	3.8	5.5	7.5
90.5°	202.4	135.4	253.6	5.8	3.7	5.4	7.7
91°	184.3	137.0	234.1	5.6	3.7	5.3	7.8
91.5°	160.5	137.6	216.6	5.4	3.7	5.2	8.0
92°	134.1	135.1	201.1	5.3	3.7	5.2	8.2
92.5°	111.6	128.1	185.8	5.1	3.8	5.2	8.4
93°	94.7	117.6	164.4	5.0	3.8	5.2	8.5
93.5°	80.9	106.6	122.4	4.9	3.9	5.2	8.7
94°	69.6	99.2	93.4	4.8	3.9	5.3	8.9
94.5°	60.5	93.4	56.3	4.7	4.0	5.4	9.1
95°	55.1	86.7	40.1	4.6	4.1	5.6	9.3
95.5°	52.9	78.0	30.4	4.5	4.2	5.7	9.6
96°	52.4	66.9	23.8	4.4	4.3	5.9	9.8
96.5°	51.3	55.2	20.6	4.4	4.4	6.1	10.0
97°	48.1	44.6	19.0	4.4	4.5	6.2	10.3
97.5°	43.7	34.7	17.6	4.3	4.7	6.4	10.5
98°	36.7	22.2	16.2	4.3	4.8	6.6	10.8
98.5°	28.1	8.9	14.7	4.3	4.9	6.8	10.9
99°	15.7	4.7	13.3	4.3	5.1	7.0	11.1
99.5°	6.4	3.4	11.9	4.3	5.3	7.2	11.3
100°	4.6	2.7	10.7	4.2	5.5	7.4	11.6
100.5°	3.6	2.4	9.5	4.2	5.6	7.6	11.8
101°	3.1	2.2	8.5	4.2	5.8	7.8	12.0
101.5°	2.5	2.1	7.6	4.2	6.0	8.0	12.3
102°	2.4	2.0	6.9	4.2	6.2	8.2	12.5
102.5°	2.3	1.9	6.2	4.3	6.4	8.4	12.7
103°	2.3	1.8	5.6	4.3	6.6	8.6	13.0
103.5°	2.3	1.8	5.1	4.4	6.8	8.8	13.2
104°	2.2	1.7	4.7	4.4	6.9	9.0	13.4
104.5°	2.2	1.7	4.3	4.5	7.1	9.2	13.6
105°	2.1	1.7	4.0	4.6	7.3	9.4	13.8
105.5°	2.0	1.7	3.7	4.7	7.5	9.6	13.9
106°	1.9	1.6	3.5	4.8	7.7	9.9	14.1
106.5°	1.8	1.6	3.2	4.9	7.9	10.1	14.3
107°	1.7	1.6	3.0	5.0	8.1	10.3	14.5
107.5°	1.6	1.6	2.7	5.1	8.3	10.5	14.7
108°	1.6	1.6	2.5	5.2	8.5	10.7	14.9
108.5°	1.5	1.6	2.4	5.3	8.6	10.9	15.1
109°	1.5	1.6	2.3	5.5	8.9	11.1	15.2
109.5°	1.5	1.6	2.3	5.6	9.0	11.3	15.4
110°	1.4	1.5	2.3	5.7	9.2	11.5	15.5
110.5°	1.4	1.5	2.3	5.8	9.4	11.7	15.6
111°	1.4	1.5	2.3	5.9	9.6	11.9	15.8
111.5°	1.3	1.4	2.3	6.0	9.8	12.1	16.0
112°	1.3	1.4	2.4	6.1	10.0	12.3	16.1

REPORT NUMBER: P1197231

CATALOG NUMBER: AWPS150S-BZ-BZ-MID-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	1.3	1.4	2.4	6.2	10.2	12.5	16.3
113°	1.3	1.4	2.5	6.3	10.4	12.7	16.4
113.5°	1.3	1.4	2.6	6.4	10.6	12.9	16.5
114°	1.3	1.4	2.6	6.5	10.8	13.1	16.7
114.5°	1.4	1.4	2.7	6.7	11.0	13.3	16.8
115°	1.4	1.5	2.8	6.7	11.1	13.5	17.0
115.5°	1.4	1.5	2.9	6.8	11.3	13.7	17.1
116°	1.4	1.5	3.0	6.9	11.5	13.9	17.2
116.5°	1.4	1.5	3.1	7.0	11.7	14.0	17.3
117°	1.5	1.6	3.2	7.1	11.8	14.2	17.4
117.5°	1.5	1.6	3.3	7.2	12.0	14.4	17.5
118°	1.5	1.7	3.4	7.3	12.1	14.5	17.6
118.5°	1.6	1.7	3.5	7.4	12.3	14.7	17.7
119°	1.6	1.8	3.6	7.5	12.4	14.8	17.8
119.5°	1.7	1.9	3.7	7.6	12.6	15.0	17.9
120°	1.7	1.9	3.8	7.7	12.7	15.1	18.0
120.5°	1.8	2.0	3.9	7.8	12.9	15.2	18.1
121°	1.8	2.1	4.0	8.0	13.0	15.3	18.2
121.5°	1.8	2.1	4.1	8.1	13.2	15.5	18.3
122°	1.9	2.2	4.3	8.2	13.3	15.6	18.3
122.5°	1.9	2.3	4.4	8.3	13.4	15.7	18.3
123°	2.0	2.4	4.5	8.4	13.5	15.8	18.4
123.5°	2.0	2.5	4.6	8.5	13.7	16.0	18.4
124°	2.1	2.5	4.7	8.6	13.8	16.1	18.4
124.5°	2.1	2.6	4.8	8.8	13.9	16.1	18.4
125°	2.2	2.7	5.0	8.9	14.0	16.2	18.5
125.5°	2.2	2.8	5.1	9.0	14.1	16.3	18.5
126°	2.3	2.8	5.2	9.1	14.2	16.4	18.5
126.5°	2.4	2.9	5.3	9.2	14.3	16.5	18.5
127°	2.4	3.0	5.4	9.3	14.4	16.6	18.6
127.5°	2.5	3.1	5.6	9.5	14.5	16.7	18.6
128°	2.6	3.2	5.7	9.6	14.6	16.8	18.6
128.5°	2.6	3.4	5.8	9.7	14.7	16.9	18.6
129°	2.7	3.4	5.9	9.8	14.8	17.0	18.6
129.5°	2.8	3.5	6.1	10.0	14.9	17.1	18.7
130°	2.8	3.7	6.2	10.1	15.0	17.2	18.7
130.5°	2.9	3.8	6.3	10.2	15.1	17.3	18.8
131°	3.0	3.9	6.4	10.3	15.1	17.4	18.8
131.5°	3.1	4.0	6.5	10.4	15.2	17.5	18.9
132°	3.2	4.1	6.7	10.6	15.3	17.6	18.9
132.5°	3.3	4.2	6.8	10.7	15.4	17.7	19.0
133°	3.3	4.3	6.9	10.8	15.5	17.8	19.0
133.5°	3.4	4.4	7.0	10.9	15.5	17.9	19.1
134°	3.5	4.5	7.2	11.0	15.6	18.0	19.2
134.5°	3.6	4.6	7.3	11.1	15.7	18.1	19.2

REPORT NUMBER: P1197231

CATALOG NUMBER: AWPS150S-BZ-BZ-MID-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	3.7	4.7	7.4	11.3	15.8	18.2	19.3
135.5°	3.8	4.8	7.5	11.4	15.8	18.3	19.3
136°	3.9	5.0	7.7	11.5	15.9	18.3	19.4
136.5°	4.0	5.1	7.8	11.6	16.0	18.4	19.4
137°	4.1	5.2	7.9	11.7	16.0	18.5	19.5
137.5°	4.2	5.3	8.0	11.9	16.1	18.5	19.6
138°	4.3	5.4	8.2	12.0	16.1	18.6	19.7
138.5°	4.4	5.6	8.3	12.1	16.2	18.6	19.8
139°	4.5	5.7	8.4	12.2	16.3	18.6	19.9
139.5°	4.6	5.8	8.6	12.3	16.3	18.6	19.9
140°	4.8	6.0	8.7	12.4	16.4	18.7	19.9
140.5°	4.9	6.1	8.8	12.5	16.4	18.7	20.0
141°	5.0	6.3	8.9	12.6	16.5	18.7	20.0
141.5°	5.1	6.4	9.1	12.7	16.6	18.7	20.0
142°	5.2	6.6	9.2	12.9	16.6	18.8	20.0
142.5°	5.4	6.7	9.3	13.0	16.7	18.8	20.0
143°	5.5	6.9	9.5	13.1	16.7	18.8	20.0
143.5°	5.6	7.0	9.6	13.2	16.8	18.8	20.0
144°	5.8	7.2	9.7	13.3	16.8	18.8	20.0
144.5°	5.9	7.3	9.9	13.4	16.9	18.8	20.0
145°	6.0	7.5	10.0	13.5	16.9	18.8	19.9
145.5°	6.2	7.6	10.1	13.6	17.0	18.8	19.9
146°	6.3	7.8	10.2	13.7	17.0	18.8	19.9
146.5°	6.5	7.9	10.4	13.8	17.1	18.8	19.9
147°	6.6	8.0	10.5	13.9	17.1	18.8	19.8
147.5°	6.7	8.2	10.6	13.9	17.2	18.8	19.8
148°	6.8	8.3	10.8	14.0	17.2	18.8	19.7
148.5°	7.0	8.4	10.9	14.1	17.3	18.8	19.7
149°	7.1	8.6	11.0	14.3	17.3	18.8	19.7
149.5°	7.2	8.7	11.1	14.4	17.4	18.8	19.7
150°	7.3	8.8	11.3	14.4	17.4	18.9	19.7
150.5°	7.4	8.9	11.4	14.6	17.5	18.9	19.7
151°	7.6	9.1	11.5	14.6	17.5	18.9	19.7
151.5°	7.7	9.2	11.6	14.8	17.6	18.9	19.7
152°	7.8	9.3	11.8	14.9	17.7	19.0	19.6
152.5°	8.0	9.5	11.9	15.0	17.7	19.0	19.6
153°	8.1	9.6	12.0	15.1	17.8	19.1	19.6
153.5°	8.2	9.7	12.2	15.2	17.9	19.1	19.6
154°	8.3	9.9	12.3	15.3	18.0	19.2	19.5
154.5°	8.5	10.0	12.4	15.4	18.0	19.2	19.5
155°	8.6	10.1	12.6	15.5	18.1	19.2	19.5
155.5°	8.7	10.3	12.7	15.6	18.2	19.3	19.5
156°	8.9	10.4	12.8	15.7	18.2	19.3	19.5
156.5°	9.0	10.6	13.0	15.8	18.2	19.3	19.4
157°	9.1	10.7	13.1	15.9	18.3	19.3	19.4

REPORT NUMBER: P1197231

CATALOG NUMBER: AWPS150S-BZ-BZ-MID-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	9.3	10.8	13.2	16.0	18.3	19.3	19.4
158°	9.4	10.9	13.3	16.1	18.4	19.3	19.4
158.5°	9.6	11.1	13.5	16.1	18.4	19.3	19.4
159°	9.7	11.2	13.6	16.2	18.5	19.3	19.4
159.5°	9.9	11.3	13.7	16.3	18.5	19.3	19.4
160°	10.0	11.5	13.9	16.4	18.5	19.3	19.4
160.5°	10.2	11.6	14.0	16.5	18.6	19.3	19.4
161°	10.3	11.8	14.1	16.6	18.6	19.3	19.4
161.5°	10.5	11.9	14.2	16.6	18.6	19.3	19.3
162°	10.6	12.1	14.3	16.7	18.7	19.3	19.3
162.5°	10.8	12.2	14.5	16.8	18.7	19.3	19.3
163°	10.9	12.3	14.6	16.9	18.7	19.3	19.2
163.5°	11.1	12.5	14.7	16.9	18.8	19.3	19.1
164°	11.2	12.6	14.8	17.0	18.8	19.3	19.0
164.5°	11.4	12.8	15.0	17.1	18.8	19.3	19.0
165°	11.5	13.0	15.1	17.2	18.9	19.3	18.9
165.5°	11.7	13.1	15.2	17.3	18.9	19.3	18.9
166°	11.9	13.3	15.4	17.3	18.9	19.3	18.9
166.5°	12.1	13.4	15.5	17.4	19.0	19.3	18.9
167°	12.3	13.6	15.6	17.5	19.0	19.3	18.9
167.5°	12.4	13.8	15.8	17.6	19.0	19.3	18.8
168°	12.6	13.9	15.9	17.7	19.0	19.3	18.8
168.5°	12.8	14.1	16.0	17.7	19.0	19.3	18.8
169°	13.1	14.3	16.1	17.8	19.0	19.3	18.7
169.5°	13.2	14.5	16.3	17.9	19.0	19.3	18.6
170°	13.4	14.6	16.4	17.9	19.0	19.3	18.6
170.5°	13.6	14.8	16.5	18.0	19.0	19.3	18.5
171°	13.8	14.9	16.6	18.0	19.0	19.3	18.5
171.5°	14.0	15.1	16.7	18.1	19.0	19.3	18.4
172°	14.1	15.2	16.8	18.1	19.0	19.3	18.3
172.5°	14.3	15.3	16.9	18.1	19.0	19.2	18.2
173°	14.4	15.5	17.0	18.2	19.0	19.1	18.1
173.5°	14.6	15.6	17.1	18.2	19.0	19.1	18.0
174°	14.8	15.8	17.2	18.2	19.0	19.0	17.9
174.5°	14.9	15.9	17.3	18.3	19.0	19.0	17.8
175°	15.1	16.0	17.4	18.3	18.9	19.0	17.7
175.5°	15.2	16.2	17.5	18.4	18.9	18.9	17.6
176°	15.4	16.3	17.6	18.4	18.9	18.8	17.5
176.5°	15.5	16.4	17.7	18.4	18.9	18.8	17.3
177°	15.6	16.6	17.7	18.4	18.8	18.8	17.2
177.5°	15.8	16.7	17.8	18.5	18.8	18.7	17.1
178°	15.9	16.8	17.9	18.5	18.8	18.7	17.0
178.5°	16.1	17.0	18.0	18.5	18.8	18.6	16.9
179°	16.2	17.1	18.1	18.6	18.8	18.5	16.7
179.5°	16.4	17.2	18.2	18.6	18.7	18.4	16.6



REPORT NUMBER: P1197231
CATALOG NUMBER: AWPS150S-BZ-BZ-MID-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	16.5	16.5	16.5	16.5	16.5	16.5	16.5

(END OF REPORT)