

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: P1197217

Luminaire Tested: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 0

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197217
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-4000K-POSITION 0
Description: AWP Architectural
Light Source: 80 CRI, 4000K
Ballast/Driver: -

Summary

Lumens per Lamp: 21000 (1 lamp)
Luminaire Lumens: 20874 lumens
Efficiency: 99.4%
Efficacy: 144.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.4' x L: 0.56' x H: 0.69')
IES Classification: Type II - Short - Cutoff
BUG Rating: B4 - U2 - G2

Input Watts (W): 145
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

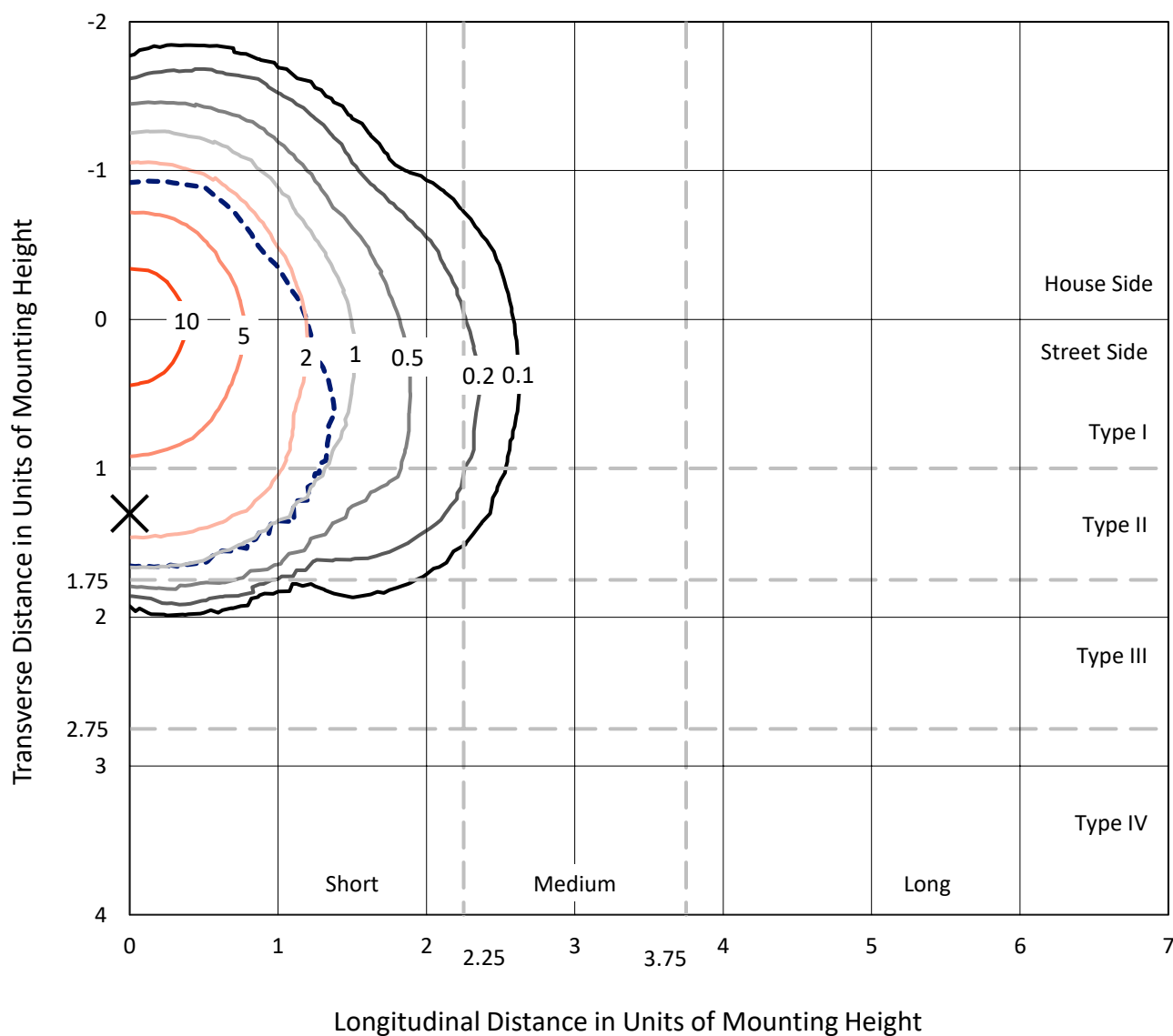
REPORT NUMBER: P1197217

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 0

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

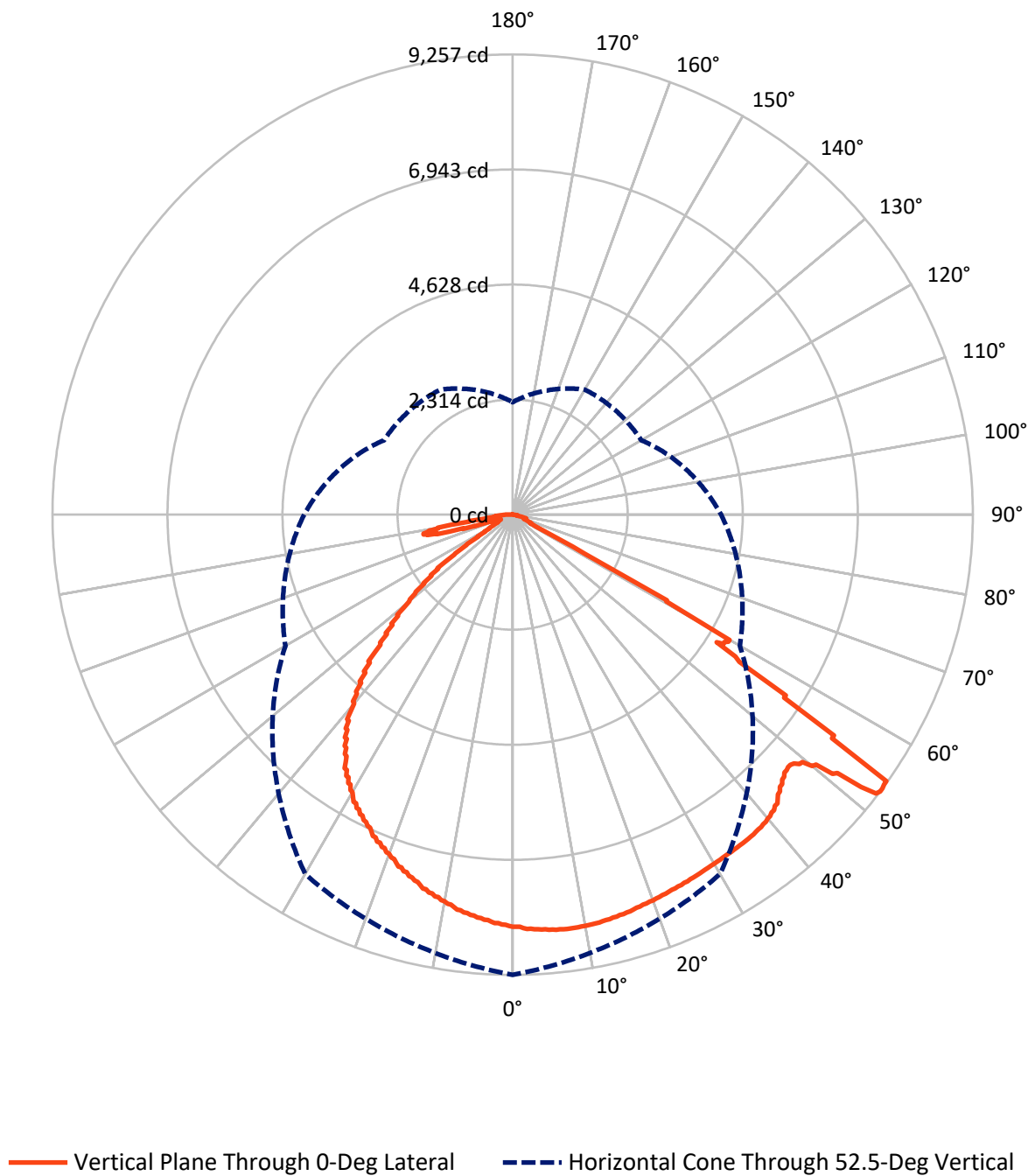


Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
Type II - Short - Cutoff

REPORT NUMBER: P1197217

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 0

Luminous Intensity Polar Plot



REPORT NUMBER: P1197217

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 0

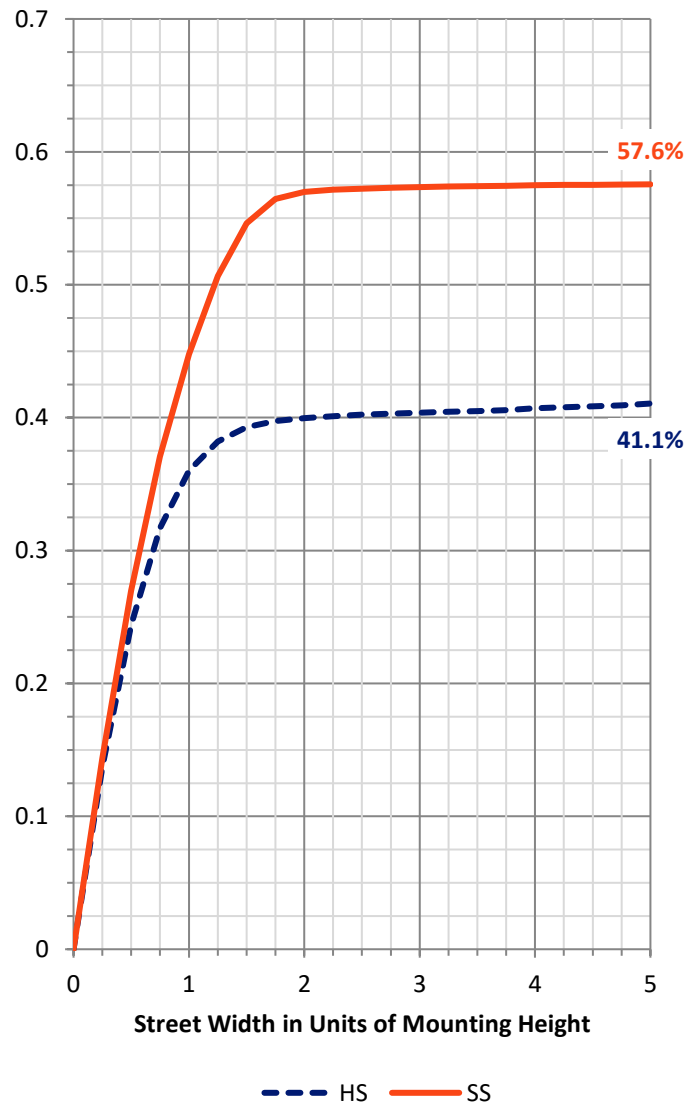
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8779.0	27.9	8806.9
	% Lamp	41.8	0.1	41.9
Street Side	Lumens	12065.0	2.0	12067.0
	% Lamp	57.5	0.0	57.5
Total	Lumens	20844.0	30.0	20874.0
	% Lamp	99.3	0.1	99.4

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	787.8	3.8	3.8
10°-20°	2254.3	10.8	10.7
20°-30°	3435.0	16.5	16.4
30°-40°	4203.7	20.1	20.0
40°-50°	4352.8	20.9	20.7
50°-60°	3761.2	18.0	17.9
60°-70°	1480.1	7.1	7.0
70°-80°	412.3	2.0	2.0
80°-90°	156.8	0.8	0.7
90°-100°	24.3	0.1	0.1
100°-110°	0.2	0.0	0.0
110°-120°	0.2	0.0	0.0
120°-130°	0.7	0.0	0.0
130°-140°	1.2	0.0	0.0
140°-150°	1.3	0.0	0.0
150°-160°	1.1	0.0	0.0
160°-170°	0.8	0.0	0.0
170°-180°	0.3	0.0	0.0
0°-90°	20844.0	99.9	99.3
0°-180°	20874.0	100.0	99.4

Coefficient of Utilization



REPORT NUMBER: P1197217

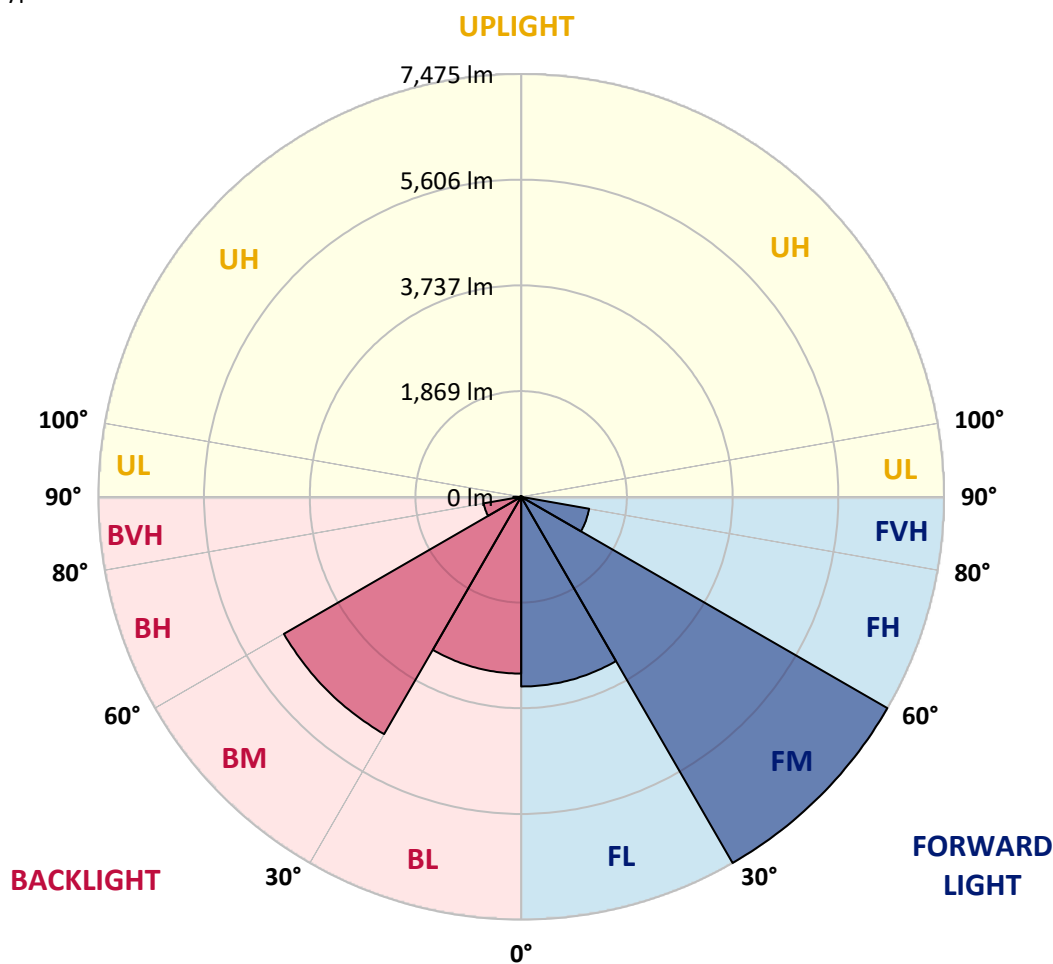
CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 0

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3353.2	16.0			
FM	(30°-60°)	7474.7	35.6			
FH	(60°-80°)	1219.4	5.8			G1/1800
FVH	(80°-90°)	17.7	0.1			G1/100
BL	(0°-30°)	3123.8	14.9	B4/5000		
BM	(30°-60°)	4843.1	23.1	B3/5000		
BH	(60°-80°)	673.0	3.2	B2/1000		G2/1000
BVH	(80°-90°)	139.1	0.7			G2/225
UL	(90°-100°)	24.3	0.1		U2/50	
UH	(100°-180°)	5.7	0.0		U1/10	
Trapped Light		126.0	0.6			

BUG Rating: B4-U2-G2

Type II Short



REPORT NUMBER: P1197217

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 0

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	8291.3	8291.3	8291.3	8291.3	8291.3	8291.3	8291.3
0.5°	8291.3	8291.3	8291.3	8291.3	8291.3	8291.3	8291.3
1°	8319.1	8341.3	8351.9	8357.9	8299.5	8339.5	8274.0
1.5°	8338.4	8344.2	8351.9	8352.7	8298.7	8322.9	8248.4
2°	8338.4	8356.7	8354.0	8352.7	8278.9	8319.6	8248.4
2.5°	8353.3	8359.0	8348.8	8347.7	8278.2	8301.9	8222.6
3°	8353.3	8368.3	8345.1	8346.8	8257.4	8298.4	8222.6
3.5°	8367.7	8370.6	8345.1	8337.5	8255.8	8277.6	8197.2
4°	8367.7	8377.9	8339.1	8324.8	8230.0	8273.6	8170.2
4.5°	8382.1	8380.1	8339.1	8324.8	8230.0	8252.8	8166.7
5°	8382.1	8384.3	8331.4	8315.1	8206.8	8249.2	8136.6
5.5°	8394.5	8386.4	8331.4	8315.1	8206.8	8227.3	8132.9
6°	8393.8	8388.5	8317.2	8298.1	8177.3	8197.9	8098.6
6.5°	8399.0	8389.3	8317.2	8298.1	8144.0	8192.3	8098.6
7°	8402.7	8390.0	8300.6	8279.7	8141.4	8166.3	8062.0
7.5°	8402.7	8385.9	8299.9	8279.7	8115.4	8161.9	8062.0
8°	8401.5	8385.9	8281.2	8258.9	8112.5	8137.0	8025.6
8.5°	8401.5	8380.7	8260.5	8236.9	8076.1	8131.4	8025.6
9°	8400.1	8380.7	8260.5	8236.9	8076.1	8100.2	7980.8
9.5°	8400.1	8370.3	8237.0	8213.5	8038.4	8094.5	7942.4
10°	8394.0	8369.6	8237.0	8213.5	8038.4	8063.3	7937.1
10.5°	8392.1	8361.3	8209.6	8185.2	7996.0	8056.8	7893.5
11°	8387.9	8349.1	8207.7	8185.2	7996.0	8021.5	7887.6
11.5°	8385.7	8349.1	8180.6	8154.7	7953.1	7978.7	7836.7
12°	8376.3	8335.1	8178.5	8154.7	7910.5	7971.5	7836.7
12.5°	8365.4	8333.7	8147.3	8118.3	7905.3	7932.0	7786.5
13°	8365.4	8313.9	8144.0	8090.2	7859.0	7925.0	7786.5
13.5°	8353.2	8312.4	8116.0	8085.5	7859.0	7883.4	7734.8
14°	8353.2	8296.8	8083.2	8047.2	7806.6	7875.6	7734.8
14.5°	8338.8	8294.8	8083.2	8047.2	7806.6	7835.1	7680.2
15°	8335.9	8277.2	8049.0	8009.7	7753.4	7827.1	7629.2
15.5°	8322.4	8274.9	8049.0	8009.7	7753.4	7779.2	7621.2
16°	8319.6	8254.1	8011.2	7964.5	7695.8	7770.7	7570.2
16.5°	8307.1	8232.3	8007.9	7964.5	7641.8	7713.8	7562.2
17°	8289.6	8229.8	7970.5	7921.8	7635.7	7663.9	7501.9
17.5°	8289.6	8209.0	7967.0	7921.8	7580.5	7654.7	7501.9
18°	8272.9	8206.8	7930.6	7874.1	7573.6	7604.8	7441.6
18.5°	8272.9	8184.9	7888.5	7867.7	7516.4	7595.2	7441.6
19°	8256.3	8182.7	7888.5	7826.1	7509.4	7541.1	7378.4
19.5°	8256.3	8162.9	7847.8	7775.1	7442.7	7531.2	7323.3
20°	8241.4	8161.0	7847.8	7775.1	7442.7	7477.1	7314.3
20.5°	8238.2	8136.0	7799.9	7723.1	7373.8	7466.9	7258.1
21°	8225.7	8133.9	7799.9	7723.1	7373.8	7411.7	7248.9
21.5°	8222.4	8113.2	7754.8	7666.2	7301.0	7343.8	7183.2
22°	8212.0	8091.7	7751.5	7666.2	7234.5	7332.6	7183.2

REPORT NUMBER: P1197217

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	8199.6	8090.1	7706.8	7610.9	7226.5	7272.3	7119.0
23°	8199.6	8063.0	7702.3	7610.9	7159.9	7261.2	7119.0
23.5°	8183.6	8061.0	7656.5	7550.2	7151.0	7200.9	7050.7
24°	8183.6	8040.2	7604.2	7489.0	7071.4	7189.0	7050.7
24.5°	8169.4	8038.4	7604.2	7489.0	7071.4	7124.6	6979.6
25°	8169.4	8014.5	7552.3	7423.8	6992.2	7112.9	6919.3
25.5°	8156.9	8012.9	7552.3	7423.8	6992.2	7046.4	6908.1
26°	8153.4	7990.1	7498.6	7354.1	6907.1	7033.8	6847.8
26.5°	8143.0	7963.4	7494.4	7354.1	6907.1	6970.4	6837.2
27°	8139.9	7963.4	7443.5	7287.3	6821.4	6895.3	6761.2
27.5°	8131.5	7941.2	7440.0	7287.3	6743.4	6882.2	6761.2
28°	8121.1	7940.0	7384.9	7212.6	6732.5	6813.6	6683.2
28.5°	8121.1	7916.0	7380.9	7212.6	6650.3	6799.9	6683.2
29°	8109.5	7914.6	7322.6	7136.3	6639.2	6733.3	6602.4
29.5°	8109.5	7888.7	7260.0	7060.0	6543.8	6719.2	6602.4
30°	8100.1	7887.6	7260.0	7060.0	6543.8	6651.6	6518.3
30.5°	8097.4	7865.8	7191.9	6976.4	6400.6	6629.7	6440.3
31°	8092.2	7864.9	7191.9	6976.4	6400.6	6558.0	6428.3
31.5°	8089.5	7843.1	7124.8	6894.1	6388.6	6486.2	6331.0
32°	8084.3	7822.4	7121.5	6894.1	6388.6	6486.2	6331.0
32.5°	8081.0	7822.4	7057.1	6809.4	6201.5	6382.1	6228.0
33°	8076.9	7802.0	7053.7	6809.4	6201.5	6382.1	6228.0
33.5°	8074.6	7802.0	6986.2	6720.1	6097.0	6291.9	6119.8
34°	8071.5	7780.7	6916.1	6709.0	6097.0	6291.9	6119.8
34.5°	8069.1	7780.7	6916.1	6628.9	5992.1	6198.6	6004.9
35°	8065.9	7760.4	6842.1	6538.1	5978.8	6198.6	5893.6
35.5°	8062.8	7760.4	6842.1	6538.1	5882.1	6100.3	5879.9
36°	8052.9	7741.5	6766.4	6440.6	5867.9	6100.3	5762.4
36.5°	8052.9	7741.5	6766.4	6440.6	5775.3	6001.6	5748.4
37°	8042.2	7720.3	6689.2	6342.0	5661.0	5895.5	5608.7
37.5°	8031.8	7700.9	6686.3	6342.0	5661.0	5895.5	5608.7
38°	8031.8	7700.9	6614.5	6242.6	5546.6	5783.1	5455.4
38.5°	8010.1	7682.2	6611.9	6242.6	5546.6	5783.1	5455.4
39°	8006.8	7682.2	6536.0	6137.3	5427.1	5662.7	5293.6
39.5°	7980.8	7660.2	6457.1	6027.9	5410.9	5662.7	5293.6
40°	7976.3	7660.2	6457.1	6027.9	5304.9	5534.8	5122.3
40.5°	7939.9	7633.3	6372.5	5915.6	5288.3	5534.8	4960.1
41°	7935.0	7633.3	6372.5	5915.6	5180.2	5402.3	4941.0
41.5°	7881.6	7600.5	6283.1	5797.3	5162.8	5402.3	4770.4
42°	7881.6	7573.4	6278.5	5797.3	5052.6	5260.1	4749.7
42.5°	7816.0	7563.7	6192.2	5677.8	4920.6	5108.9	4551.9
43°	7751.6	7517.6	6186.3	5677.8	4920.6	5108.9	4551.9
43.5°	7744.3	7517.6	6095.8	5554.6	4784.0	4947.6	4346.2
44°	7674.6	7468.5	6089.6	5554.6	4784.0	4947.6	4346.2
44.5°	7666.9	7468.5	6005.4	5429.2	4639.5	4778.9	4136.4

REPORT NUMBER: P1197217

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	7601.4	7418.0	5916.6	5301.1	4620.4	4778.9	4136.4
45.5°	7593.6	7418.0	5916.6	5301.1	4487.3	4597.5	3919.5
46°	7536.9	7371.2	5816.6	5168.9	4467.8	4597.5	3731.3
46.5°	7536.9	7371.2	5816.6	5168.9	4328.4	4406.8	3703.3
47°	7518.5	7330.2	5710.3	5033.7	4308.6	4230.0	3490.7
47.5°	7518.5	7299.1	5705.1	5033.7	4164.1	4205.8	3490.7
48°	7555.8	7304.8	5599.0	4895.3	3994.1	4000.9	3280.7
48.5°	7644.2	7298.8	5595.5	4895.3	3994.1	4000.9	3280.7
49°	7662.8	7298.8	5493.6	4755.6	3821.8	3787.3	3074.5
49.5°	7865.6	7359.8	5402.5	4739.5	3821.8	3787.3	3074.5
50°	7907.9	7359.8	5402.5	4614.8	3634.5	3570.2	2874.4
50.5°	8280.1	7567.6	5337.4	4474.0	3613.5	3570.2	2714.2
51°	8344.5	7567.6	5337.4	4474.0	3434.6	3349.9	2682.4
51.5°	8893.7	7920.5	5298.8	4335.1	3413.7	3349.9	2525.3
52°	9211.9	7973.7	5298.8	4207.2	3194.7	3125.5	2493.3
52.5°	9256.9	8344.9	5276.6	4193.1	2988.8	2903.9	2261.3
53°	9256.9	8729.7	5341.0	4193.1	2988.8	2903.9	2261.3
53.5°	9233.3	8729.7	5253.7	4049.5	2757.2	2690.9	2044.4
54°	9233.3	8942.9	5289.3	4049.5	2757.2	2690.9	2044.4
54.5°	7841.0	8728.2	5203.0	3900.9	2524.7	2485.2	1853.6
55°	7841.0	8528.5	5169.6	3764.7	2501.9	2485.2	1853.6
55.5°	6587.4	8346.4	5081.2	3749.9	2297.1	2287.7	1657.8
56°	6587.4	7642.3	4879.2	3596.5	2273.7	2287.7	1422.8
56.5°	5435.8	7477.6	4879.2	3596.5	2085.5	2102.3	1397.1
57°	5315.7	6482.4	4627.4	3439.8	2061.7	2102.3	1113.2
57.5°	4840.5	5452.4	4468.4	3439.8	1902.6	1927.0	1088.3
58°	4971.8	5483.0	4394.6	3279.7	1877.9	1782.4	823.9
58.5°	4971.8	4806.1	4281.3	3279.7	1746.9	1760.5	823.9
59°	5038.3	4806.9	4221.0	3123.0	1602.7	1563.7	649.8
59.5°	5038.3	4591.7	4185.0	3123.0	1602.7	1563.7	649.8
60°	3548.2	4339.4	4149.6	2965.3	1433.8	1365.0	546.7
60.5°	3548.2	4738.7	4220.6	2816.2	1408.8	1365.0	546.7
61°	1653.1	4455.3	4220.6	2816.2	1215.3	1167.3	519.1
61.5°	1377.8	4475.0	4306.0	2680.2	1190.3	1167.3	446.3
62°	669.6	4356.6	4306.0	2680.2	1003.1	919.7	410.1
62.5°	501.9	3082.7	4237.4	2555.7	978.2	707.6	359.0
63°	466.6	1510.7	3975.4	2555.7	863.8	688.4	359.0
63.5°	386.0	1504.8	4105.4	2431.9	777.1	555.3	332.2
64°	386.0	562.6	3947.8	2431.9	777.1	555.3	332.2
64.5°	406.9	566.6	3953.0	2287.2	715.3	496.0	323.3
65°	406.9	320.2	3741.2	2113.0	690.9	496.0	323.3
65.5°	362.0	312.5	3741.2	2113.0	662.9	461.1	317.2
66°	362.0	291.7	3408.1	1916.5	639.2	461.1	305.8
66.5°	318.0	284.2	3408.1	1916.5	619.4	425.6	300.4
67°	310.4	292.6	2996.6	1714.3	597.2	425.6	280.7

REPORT NUMBER: P1197217

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	286.5	288.6	2996.6	1714.3	574.3	394.7	276.1
68°	279.3	281.3	2497.3	1499.9	531.6	374.6	255.7
68.5°	249.2	234.6	2490.3	1499.9	531.6	374.6	255.7
69°	240.0	233.8	1960.0	1280.1	496.1	360.9	260.0
69.5°	240.0	193.2	1953.2	1159.5	475.9	360.9	260.0
70°	257.6	196.7	1500.8	1083.8	464.5	349.6	273.0
70.5°	257.6	171.7	1150.4	926.1	447.8	349.6	273.0
71°	273.0	174.5	1150.4	926.1	437.4	342.7	272.1
71.5°	273.7	156.8	879.1	742.9	414.3	342.7	307.5
72°	280.0	157.9	879.1	742.9	402.8	337.6	307.0
72.5°	282.2	150.6	637.7	601.8	385.9	333.5	472.6
73°	282.2	153.7	638.2	601.8	373.5	331.4	472.6
73.5°	272.7	151.6	459.4	508.4	345.2	328.4	810.6
74°	272.7	164.1	461.4	508.4	345.2	312.8	808.0
74.5°	239.1	158.2	369.9	414.1	310.1	309.2	1034.7
75°	239.1	172.8	337.0	408.2	310.1	299.8	1033.1
75.5°	187.8	164.1	337.0	322.9	295.9	299.8	1293.1
76°	187.8	174.5	309.6	248.4	262.4	288.9	1570.6
76.5°	140.8	166.6	309.6	248.4	242.6	285.6	1570.6
77°	139.6	171.8	268.9	196.7	235.1	259.6	1761.7
77.5°	108.4	166.6	268.9	196.7	215.4	256.3	1761.7
78°	98.0	163.3	230.1	163.2	210.8	237.6	1835.5
78.5°	98.0	155.0	228.7	163.2	191.1	212.4	1831.9
79°	101.5	156.4	194.4	138.8	174.4	210.2	1724.8
79.5°	101.5	137.7	191.2	138.8	174.4	168.6	1717.8
80°	102.5	138.7	158.0	115.5	149.6	164.9	1531.7
80.5°	102.5	112.7	119.3	94.2	147.0	131.6	1526.1
81°	95.0	112.2	119.3	94.2	123.1	127.6	1269.3
81.5°	95.0	84.1	78.2	73.5	120.7	118.3	878.8
82°	85.1	83.1	78.2	73.5	99.9	114.8	878.8
82.5°	82.5	58.1	30.4	54.8	98.0	122.1	502.5
83°	70.0	56.0	30.4	54.8	86.5	153.4	508.1
83.5°	68.1	36.3	4.2	40.6	73.3	151.5	349.0
84°	49.4	17.5	1.6	40.6	73.3	337.7	380.1
84.5°	26.0	13.7	1.6	31.2	48.9	333.8	302.1
85°	26.0	6.4	0.3	31.2	48.9	629.2	351.5
85.5°	6.2	3.1	0.3	22.9	31.9	626.6	302.7
86°	6.2	2.1	0.2	16.6	30.9	796.1	331.0
86.5°	1.0	1.2	0.2	16.6	18.4	794.0	293.6
87°	1.0	0.2	0.0	11.4	17.5	771.1	258.6
87.5°	0.0	0.0	0.0	11.4	11.3	770.0	258.6
88°	0.0	0.0	0.0	7.3	10.6	709.7	222.5
88.5°	0.0	0.0	0.0	7.3	6.4	622.7	208.0
89°	0.0	0.0	0.0	4.2	1.7	622.0	182.0
89.5°	0.0	0.0	0.0	4.2	1.7	521.2	165.2

REPORT NUMBER: P1197217

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	0.0	0.0	0.0	2.1	0.3	521.0	141.2
90.5°	0.0	0.0	0.0	2.1	0.3	422.2	124.7
91°	0.0	0.0	0.0	1.0	0.2	422.2	101.8
91.5°	0.0	0.0	0.0	1.0	0.2	318.2	66.8
92°	0.0	0.0	0.0	1.0	0.2	318.2	66.8
92.5°	0.0	0.0	0.0	0.0	0.0	211.1	37.4
93°	0.0	0.0	0.0	0.0	0.0	211.1	37.4
93.5°	0.0	0.0	0.0	0.0	0.0	131.0	21.9
94°	0.0	0.0	0.0	0.0	0.0	29.1	4.9
94.5°	0.0	0.0	0.0	0.0	0.0	29.1	4.9
95°	0.0	0.0	0.0	0.0	0.0	4.2	0.7
95.5°	0.0	0.0	0.0	0.0	0.0	4.2	0.7
96°	0.0	0.0	0.0	0.0	0.0	3.1	0.5
96.5°	0.0	0.0	0.0	0.0	0.0	2.1	0.3
97°	0.0	0.0	0.0	0.0	0.0	2.1	0.3
97.5°	0.0	0.0	0.0	0.0	0.0	2.1	0.3
98°	0.0	0.0	0.0	0.0	0.0	2.1	0.3
98.5°	0.0	0.0	0.0	0.0	0.0	2.1	0.3
99°	0.0	0.0	0.0	0.0	0.0	2.1	0.3
99.5°	0.0	0.0	0.0	0.0	0.0	2.1	0.3
100°	0.0	0.0	0.0	0.0	0.0	2.1	0.3
100.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
101°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
101.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
102°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
102.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
103°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
103.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
104°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
104.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
105°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
105.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
106°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
106.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
107°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
107.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
109.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
110°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
110.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
111°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
111.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
112°	0.0	0.0	0.0	0.0	0.0	1.0	0.2

REPORT NUMBER: P1197217

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
113°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
113.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
114°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
114.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
115°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
115.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
116°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
116.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
117°	0.0	0.0	0.0	0.0	0.0	1.0	0.2
117.5°	0.0	0.0	0.0	0.0	1.0	1.2	0.2
118°	0.0	0.0	0.0	0.0	1.0	1.2	0.2
118.5°	0.0	0.0	0.0	0.0	1.0	1.2	0.2
119°	0.0	0.0	0.0	0.0	1.0	1.2	1.2
119.5°	0.0	0.0	0.0	0.0	1.0	1.2	1.2
120°	0.0	0.0	0.0	0.0	1.0	1.2	1.2
120.5°	0.0	0.0	0.0	0.0	1.0	1.2	1.2
121°	0.0	0.0	0.0	0.0	1.0	1.2	1.2
121.5°	0.0	0.0	0.0	0.0	1.0	1.2	1.2
122°	0.0	0.0	0.0	1.0	1.2	1.2	1.2
122.5°	0.0	0.0	0.0	1.0	1.2	1.2	1.2
123°	0.0	0.0	0.0	1.0	1.2	1.2	1.2
123.5°	0.0	0.0	0.0	1.0	1.2	1.2	1.2
124°	0.0	0.0	0.0	1.0	1.2	1.2	1.2
124.5°	0.0	0.0	0.0	1.0	1.2	1.2	1.2
125°	0.0	0.0	0.0	1.0	1.2	1.2	1.2
125.5°	0.0	0.0	0.0	1.0	1.2	1.2	1.2
126°	0.0	0.0	0.0	1.0	1.2	1.2	1.2
126.5°	0.0	0.0	0.0	1.0	1.2	1.2	1.2
127°	0.0	0.0	0.0	1.0	1.2	2.3	1.4
127.5°	0.0	0.0	0.0	1.0	1.2	2.3	1.4
128°	0.0	0.0	1.0	1.2	1.2	2.3	2.4
128.5°	0.0	0.0	1.0	1.2	1.2	2.3	2.4
129°	0.0	0.0	0.0	1.0	1.2	2.3	2.4
129.5°	0.0	0.0	0.0	1.0	1.2	2.3	2.4
130°	0.0	0.0	1.0	1.2	1.2	2.3	2.4
130.5°	0.0	1.0	1.2	1.2	1.2	2.3	2.4
131°	0.0	1.0	1.2	1.2	1.2	2.3	2.4
131.5°	0.0	1.0	1.2	1.2	1.2	2.3	2.4
132°	0.0	1.0	1.2	1.2	1.2	2.3	2.4
132.5°	0.0	1.0	1.2	1.2	1.2	2.3	2.4
133°	0.0	1.0	1.2	1.2	1.2	2.3	2.4
133.5°	0.0	1.0	1.2	1.2	1.2	2.3	2.4
134°	0.0	1.0	1.2	1.2	1.2	2.3	2.4
134.5°	0.0	1.0	1.2	1.2	1.2	2.3	2.4

REPORT NUMBER: P1197217

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	0.0	1.0	1.2	1.2	2.3	2.4	2.4
135.5°	0.0	1.0	1.2	1.2	2.3	2.4	2.4
136°	0.0	1.0	1.2	1.2	2.3	2.4	2.4
136.5°	0.0	1.0	1.2	2.3	2.4	2.4	2.4
137°	0.0	1.0	1.2	2.3	2.4	2.4	2.4
137.5°	0.0	1.0	1.2	2.3	2.4	2.4	2.4
138°	0.0	1.0	1.2	2.3	2.4	2.4	2.4
138.5°	0.0	1.0	1.2	2.3	2.4	2.4	2.4
139°	0.0	1.0	1.2	2.3	2.4	2.4	2.4
139.5°	0.0	1.0	1.2	2.3	2.4	2.4	2.4
140°	0.0	1.0	1.2	2.3	2.4	2.4	2.4
140.5°	0.0	1.0	1.2	2.3	2.4	2.4	2.4
141°	1.2	1.2	1.2	2.3	2.4	2.4	2.4
141.5°	1.2	1.2	1.2	2.3	2.4	2.4	2.4
142°	1.2	1.2	1.2	2.3	2.4	2.4	2.4
142.5°	1.2	1.2	1.2	2.3	2.4	2.4	2.4
143°	1.2	1.2	1.2	2.3	2.4	2.4	2.4
143.5°	1.2	1.2	1.2	2.3	2.4	2.4	2.4
144°	1.2	1.2	1.2	2.3	2.4	2.4	2.4
144.5°	1.2	1.2	1.2	2.3	2.4	2.4	2.4
145°	1.2	2.3	1.4	2.3	2.4	2.4	2.4
145.5°	1.2	2.3	2.4	2.4	2.4	2.4	2.4
146°	1.2	2.3	2.4	2.4	2.4	3.5	2.6
146.5°	1.2	2.3	2.4	2.4	2.4	3.5	2.6
147°	1.2	2.3	2.4	2.4	2.4	2.4	2.4
147.5°	1.2	2.3	2.4	2.4	2.4	2.4	2.4
148°	1.2	2.3	2.4	2.4	2.4	2.4	2.4
148.5°	1.2	2.3	2.4	2.4	2.4	2.4	2.4
149°	1.2	2.3	2.4	2.4	2.4	2.4	2.4
149.5°	1.2	2.3	2.4	2.4	2.4	2.4	2.4
150°	1.2	2.3	2.4	2.4	2.4	2.4	2.4
150.5°	1.2	2.3	2.4	2.4	2.4	2.4	2.4
151°	1.2	2.3	2.4	2.4	2.4	2.4	2.4
151.5°	1.2	2.3	2.4	2.4	2.4	2.4	2.4
152°	1.2	2.3	2.4	2.4	2.4	2.4	2.4
152.5°	1.2	2.3	2.4	2.4	2.4	2.4	2.4
153°	1.2	2.3	2.4	2.4	2.4	2.4	2.4
153.5°	1.2	2.3	2.4	2.4	2.4	2.4	2.4
154°	1.2	2.3	2.4	2.4	2.4	2.4	2.4
154.5°	1.2	2.3	2.4	2.4	2.4	2.4	2.4
155°	1.4	2.3	2.4	2.4	2.4	2.4	2.4
155.5°	1.4	2.3	2.4	2.4	2.4	3.5	2.6
156°	1.2	2.3	2.4	2.4	2.4	3.5	2.6
156.5°	1.2	2.3	2.4	2.4	2.4	3.5	2.6
157°	1.4	2.3	2.4	2.4	2.4	2.4	2.4

REPORT NUMBER: P1197217

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	1.4	2.3	2.4	2.4	2.4	2.4	2.4
158°	1.2	2.3	2.4	2.4	2.4	3.5	2.6
158.5°	2.3	2.4	2.4	2.4	2.4	3.5	2.6
159°	2.3	2.4	2.4	2.4	2.4	3.5	2.6
159.5°	2.3	2.4	2.4	2.4	2.4	3.5	2.6
160°	2.4	2.4	2.4	2.4	2.4	3.5	2.6
160.5°	2.4	2.4	2.4	2.4	2.4	3.5	2.6
161°	2.4	2.4	2.4	2.4	2.4	3.5	2.6
161.5°	2.4	2.4	2.4	2.4	2.4	3.5	2.6
162°	2.4	2.4	2.4	3.5	2.6	3.5	2.6
162.5°	2.4	2.4	2.4	3.5	2.6	3.5	2.6
163°	2.4	2.4	2.4	3.5	2.6	3.5	2.6
163.5°	2.4	2.4	2.4	3.5	2.6	3.5	2.6
164°	2.4	2.4	2.4	3.5	2.6	3.5	2.6
164.5°	2.4	2.4	2.4	2.4	2.4	3.5	2.6
165°	2.4	2.4	2.4	2.4	2.4	3.5	2.6
165.5°	2.4	2.4	2.4	2.4	2.4	3.5	2.6
166°	2.4	2.4	2.4	2.4	2.4	3.5	2.6
166.5°	2.4	2.4	2.4	2.4	2.4	3.5	2.6
167°	2.4	2.4	2.4	2.4	2.4	3.5	2.6
167.5°	2.4	2.4	2.4	2.4	2.4	3.5	2.6
168°	2.4	2.4	2.4	2.4	2.4	3.5	2.6
168.5°	2.4	2.4	2.4	2.4	2.4	3.5	2.6
169°	2.4	3.5	2.6	2.4	2.4	3.5	2.6
169.5°	2.4	3.5	2.6	2.4	2.4	3.5	2.6
170°	2.4	2.4	2.4	3.5	2.6	3.5	2.6
170.5°	2.4	2.4	2.4	3.5	2.6	3.5	2.6
171°	2.4	2.4	2.4	2.4	2.4	3.5	2.6
171.5°	2.4	3.5	2.6	2.4	2.4	3.5	2.6
172°	2.4	3.5	2.6	3.5	2.6	3.5	2.6
172.5°	2.4	2.4	2.4	3.5	2.6	3.5	2.6
173°	2.4	2.4	2.4	3.5	2.6	3.5	3.6
173.5°	2.4	2.4	2.4	3.5	2.6	3.5	3.6
174°	2.4	2.4	2.4	3.5	2.6	3.5	2.6
174.5°	2.4	2.4	2.4	2.4	2.4	3.5	2.6
175°	2.4	2.4	2.4	2.4	3.5	3.6	2.6
175.5°	2.4	2.4	2.4	3.5	3.6	3.6	2.6
176°	2.4	2.4	2.4	3.5	3.6	2.6	2.4
176.5°	3.5	2.6	2.4	2.4	2.4	2.4	3.5
177°	3.5	2.6	2.4	2.4	2.4	2.4	3.5
177.5°	3.5	2.6	2.4	2.4	2.4	2.4	2.4
178°	3.5	2.6	2.4	2.4	2.4	3.5	2.6
178.5°	2.4	2.4	2.4	3.5	2.6	3.5	2.6
179°	2.4	2.4	2.4	3.5	2.6	2.4	2.4
179.5°	2.4	2.4	2.4	3.5	2.6	2.4	2.4



REPORT NUMBER: P1197217
CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	2.6	2.6	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)