

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: P1197107

Luminaire Tested: AWPf150S-BZ-BZ-LOW-3000K-POSITION 0

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197107
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 0
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 3000K
Ballast/Driver: -

Summary

Lumens per Lamp: 13000 (1 lamp)
Luminaire Lumens: 13721 lumens
Efficiency: 105.5%
Efficacy: 136.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.4' x L: 0.56' x H: 0.69')
IES Classification: Type III - Short - Cutoff
BUG Rating: B3 - U1 - G1

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

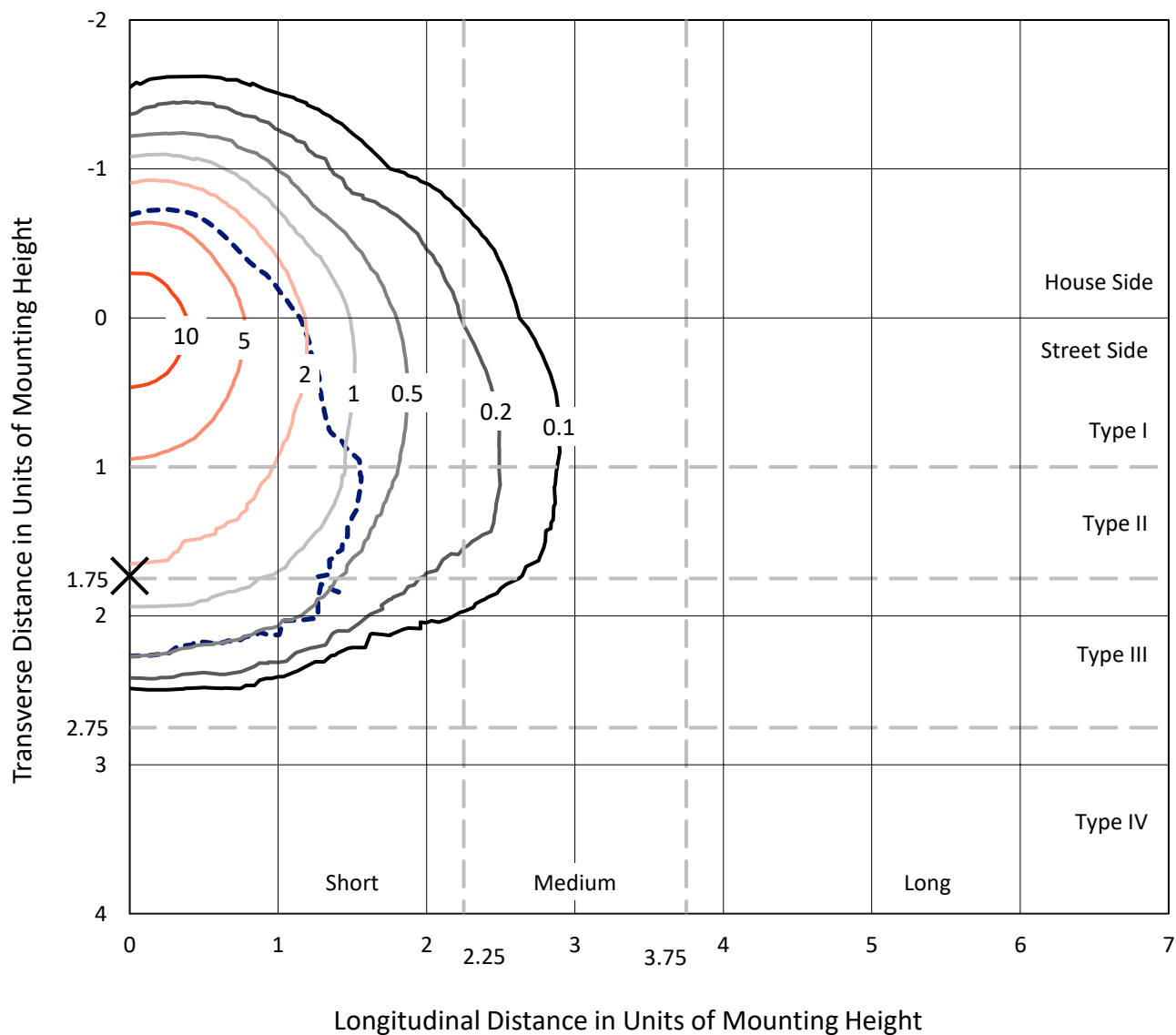
REPORT NUMBER: P1197107

CATALOG NUMBER: AWPf150S-BZ-BZ-LOW-3000K-POSITION 0

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

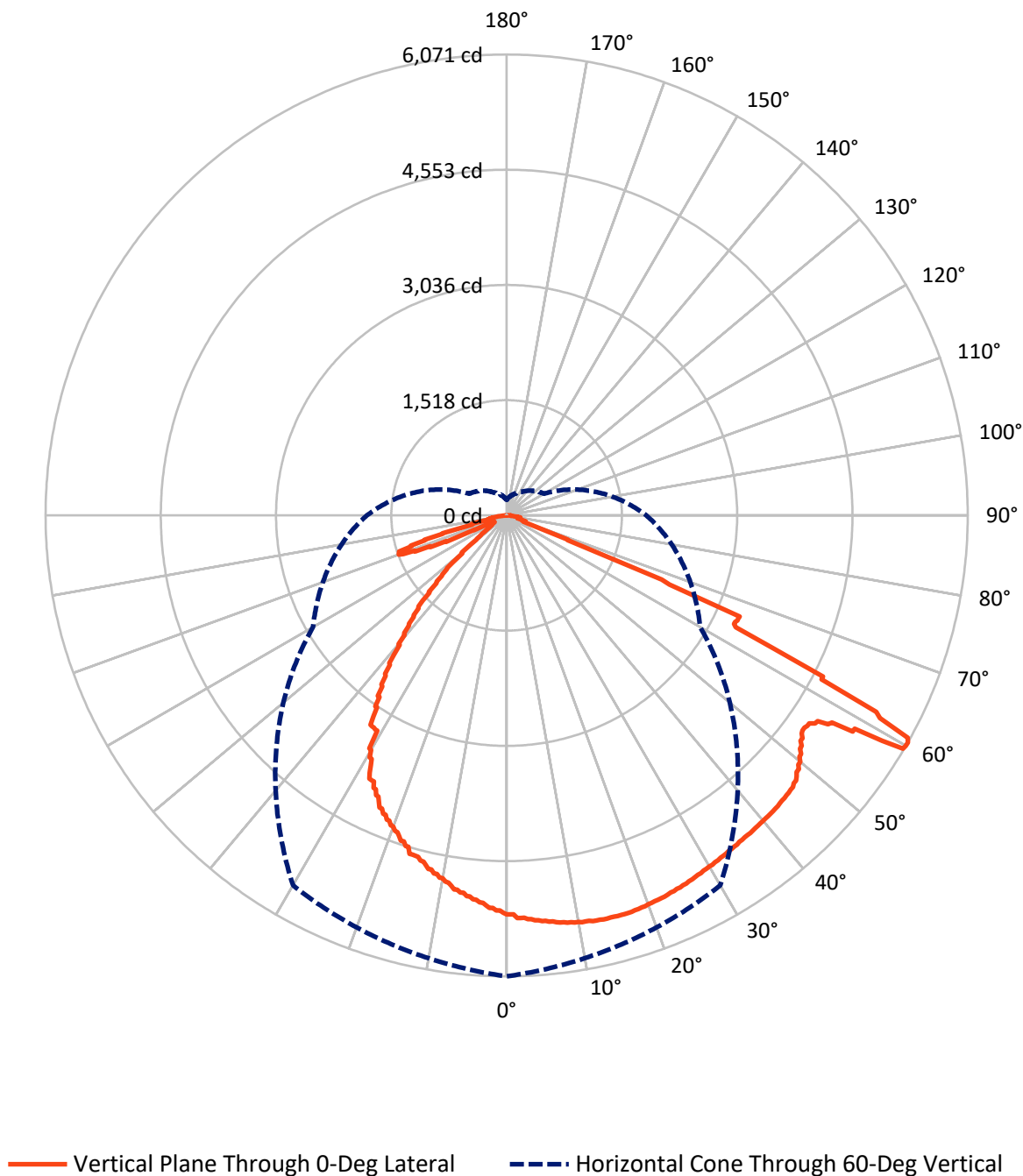


Based on 20 foot mounting height. Maximum calculated value = 13.2 fc
Type III - Short - Cutoff

REPORT NUMBER: P1197107

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 0

Luminous Intensity Polar Plot



REPORT NUMBER: P1197107

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 0

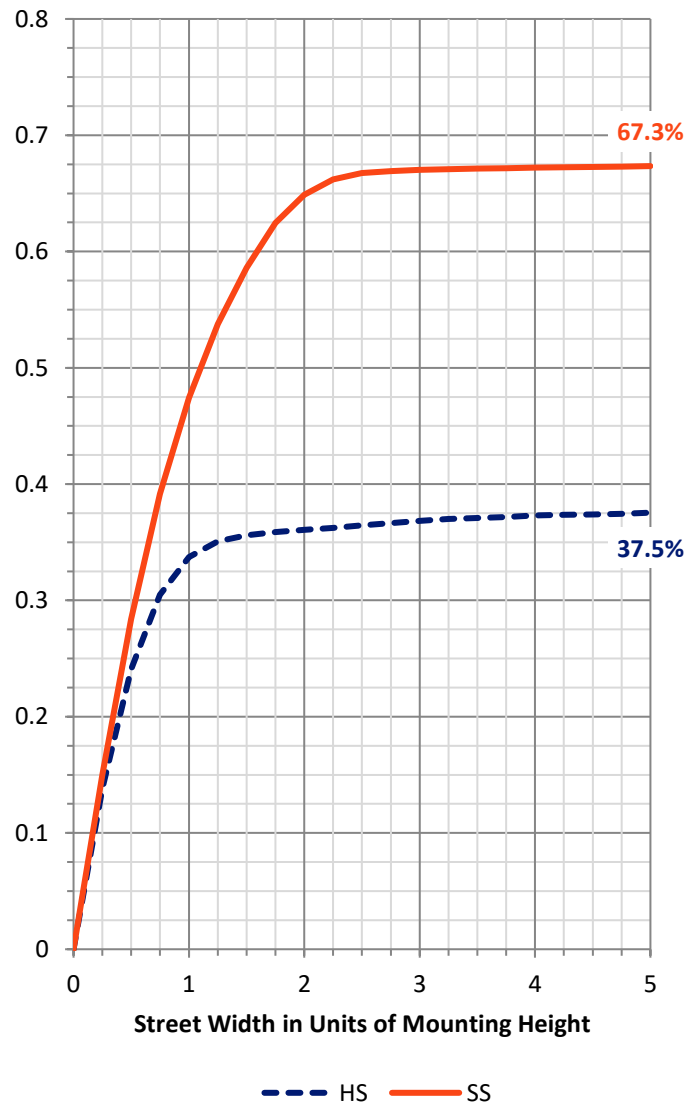
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4955.2	2.5	4957.8
	% Lamp	38.1	0.0	38.1
Street Side	Lumens	8761.4	1.8	8763.3
	% Lamp	67.4	0.0	67.4
Total	Lumens	13716.7	4.3	13721.0
	% Lamp	105.5	0.0	105.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	501.4	3.7	3.9
10°-20°	1434.8	10.5	11.0
20°-30°	2175.1	15.9	16.7
30°-40°	2609.4	19.0	20.1
40°-50°	2607.5	19.0	20.1
50°-60°	2266.4	16.5	17.4
60°-70°	1597.4	11.6	12.3
70°-80°	411.3	3.0	3.2
80°-90°	113.4	0.8	0.9
90°-100°	1.1	0.0	0.0
100°-110°	0.1	0.0	0.0
110°-120°	0.2	0.0	0.0
120°-130°	0.5	0.0	0.0
130°-140°	0.6	0.0	0.0
140°-150°	0.7	0.0	0.0
150°-160°	0.6	0.0	0.0
160°-170°	0.5	0.0	0.0
170°-180°	0.2	0.0	0.0
0°-90°	13716.7	100.0	105.5
0°-180°	13721.0	100.0	105.5

Coefficient of Utilization



REPORT NUMBER: P1197107

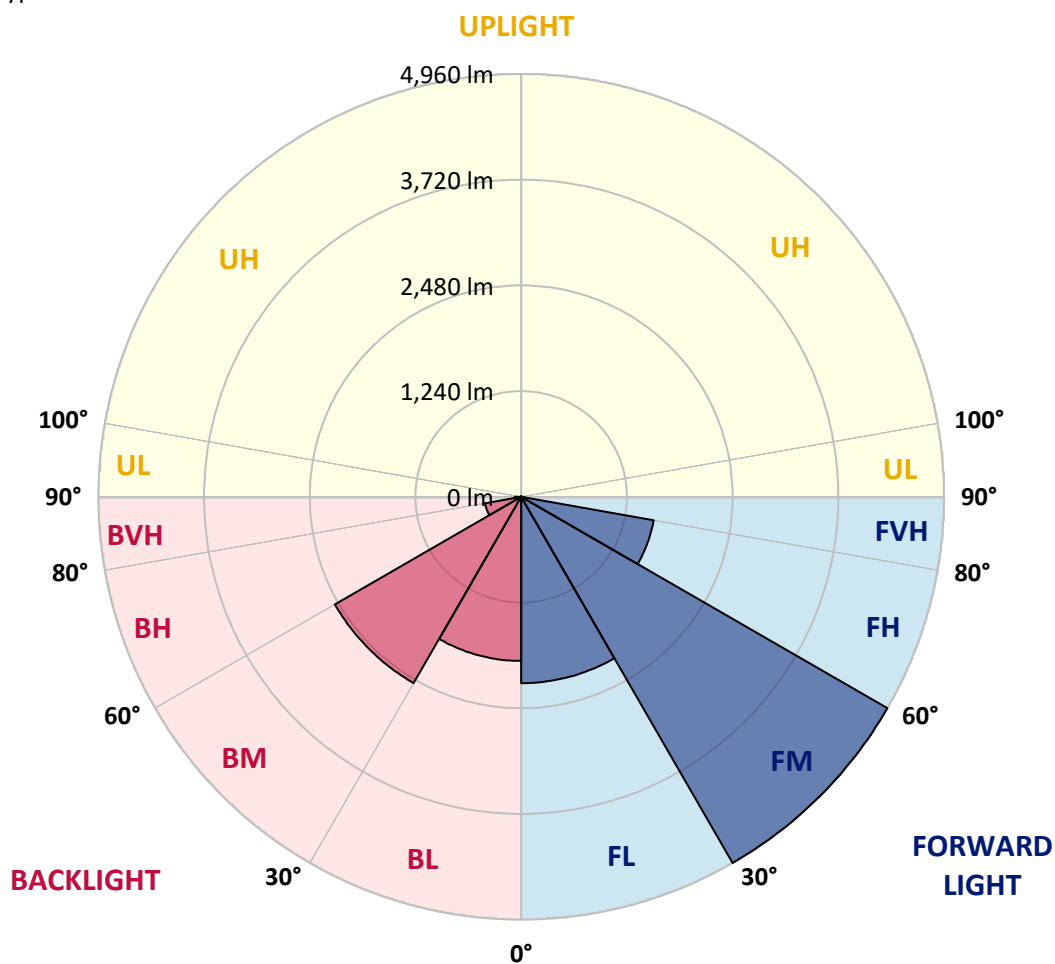
CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 0

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2186.4	16.8			
FM	(30°-60°)	4959.9	38.2			
FH	(60°-80°)	1578.2	12.1			G1/1800
FVH	(80°-90°)	36.9	0.3			G1/100
BL	(0°-30°)	1924.9	14.8	B3/2500		
BM	(30°-60°)	2523.3	19.4	B3/5000		
BH	(60°-80°)	430.6	3.3	B1/500		G1/500
BVH	(80°-90°)	76.5	0.6			G1/100
UL	(90°-100°)	1.1	0.0		U1/10	
UH	(100°-180°)	3.2	0.0		U1/10	
Trapped Light		-721.0	-5.5			

BUG Rating: B3-U1-G1

Type III Short



REPORT NUMBER: P1197107

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 0

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	5256.1	5256.1	5256.1	5256.1	5256.1	5256.1	5256.1
0.5°	5256.1	5256.1	5256.1	5256.1	5256.1	5256.1	5256.1
1°	5305.5	5311.2	5338.7	5329.5	5281.0	5312.1	5233.8
1.5°	5305.5	5311.2	5338.7	5329.5	5281.0	5297.0	5205.3
2°	5305.5	5326.2	5343.8	5329.1	5265.1	5294.8	5205.3
2.5°	5323.9	5328.6	5343.8	5323.9	5241.0	5274.2	5174.3
3°	5326.0	5342.9	5345.1	5323.8	5241.0	5274.2	5174.3
3.5°	5346.4	5345.7	5345.1	5317.7	5227.4	5249.8	5144.8
4°	5348.0	5357.8	5343.7	5317.3	5227.4	5249.8	5112.4
4.5°	5363.8	5369.8	5345.1	5309.0	5205.1	5219.0	5108.5
5°	5365.2	5369.8	5343.6	5308.8	5205.1	5219.0	5078.4
5.5°	5381.9	5382.5	5342.8	5302.5	5177.2	5194.1	5075.4
6°	5381.9	5382.5	5342.8	5302.5	5177.2	5168.5	5040.9
6.5°	5397.4	5394.3	5339.7	5289.8	5153.6	5165.4	5040.9
7°	5409.4	5396.0	5339.7	5289.8	5153.6	5138.3	5003.2
7.5°	5410.4	5403.6	5335.5	5283.0	5128.7	5134.9	5003.2
8°	5423.9	5405.5	5335.5	5268.0	5098.0	5106.8	4973.5
8.5°	5425.5	5411.5	5329.6	5267.0	5098.0	5106.8	4973.5
9°	5437.6	5413.2	5329.6	5254.2	5069.1	5066.9	4930.8
9.5°	5437.7	5417.7	5320.4	5252.9	5069.1	5066.9	4896.1
10°	5448.2	5424.5	5311.4	5232.7	5035.6	5030.9	4891.7
10.5°	5448.4	5424.5	5311.4	5232.7	5035.6	5000.0	4852.7
11°	5449.1	5426.0	5302.5	5217.1	4996.7	4994.9	4852.7
11.5°	5463.4	5428.0	5302.5	5217.1	4996.7	4964.0	4810.7
12°	5465.4	5429.8	5289.2	5200.1	4962.9	4959.5	4810.7
12.5°	5465.4	5429.8	5289.2	5178.3	4924.5	4918.4	4769.5
13°	5473.5	5429.5	5275.4	5176.4	4924.5	4918.4	4769.5
13.5°	5473.5	5429.5	5275.4	5156.8	4887.1	4879.7	4727.9
14°	5470.9	5427.7	5260.2	5154.7	4887.1	4879.7	4691.0
14.5°	5470.9	5427.7	5260.2	5130.6	4846.0	4835.2	4685.5
15°	5476.5	5426.3	5242.5	5128.2	4846.0	4835.2	4646.3
15.5°	5476.1	5419.6	5223.5	5103.8	4806.1	4793.2	4641.1
16°	5478.3	5419.9	5223.5	5103.8	4806.1	4756.3	4635.9
16.5°	5476.2	5413.8	5201.6	5070.7	4758.2	4750.1	4635.9
17°	5474.0	5413.5	5201.6	5070.7	4758.2	4714.7	4551.9
17.5°	5468.6	5403.2	5180.6	5046.9	4713.1	4708.8	4551.9
18°	5468.6	5403.2	5180.6	5019.8	4667.1	4659.2	4503.6
18.5°	5461.1	5392.5	5155.2	4987.0	4663.0	4659.2	4503.6
19°	5461.1	5392.5	5155.2	4987.0	4614.8	4610.3	4455.5
19.5°	5450.3	5380.7	5129.6	4983.6	4614.8	4610.3	4412.6
20°	5450.3	5369.4	5128.0	4952.0	4568.9	4563.0	4406.8
20.5°	5443.4	5368.6	5102.4	4948.4	4568.9	4563.0	4363.1
21°	5440.8	5355.8	5075.0	4916.2	4518.2	4512.8	4357.0
21.5°	5437.7	5355.4	5075.0	4916.2	4518.2	4469.1	4305.7
22°	5436.8	5341.1	5044.4	4878.3	4468.3	4462.8	4305.7

REPORT NUMBER: P1197107

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	5427.0	5339.7	5044.4	4878.3	4415.6	4413.2	4251.6
23°	5416.5	5324.3	5014.5	4842.0	4411.0	4413.2	4251.6
23.5°	5416.5	5324.3	5014.5	4808.9	4361.2	4360.2	4194.5
24°	5405.5	5307.9	4983.0	4804.8	4361.2	4360.2	4194.5
24.5°	5405.5	5307.9	4983.0	4767.1	4305.5	4308.7	4134.1
25°	5396.0	5291.8	4950.1	4762.8	4305.5	4308.7	4071.6
25.5°	5396.0	5276.0	4919.2	4719.6	4247.3	4256.8	4065.4
26°	5383.0	5274.5	4919.2	4719.6	4247.3	4208.7	3995.3
26.5°	5380.6	5257.2	4885.9	4676.9	4191.4	4201.6	3995.3
27°	5371.6	5255.9	4885.9	4676.9	4191.4	4148.1	3916.3
27.5°	5363.4	5239.3	4848.3	4586.1	4125.9	4140.6	3916.3
28°	5363.4	5239.3	4848.3	4586.1	4068.7	4084.4	3909.5
28.5°	5347.9	5220.1	4812.8	4581.4	4068.7	4084.4	3837.3
29°	5347.9	5220.1	4812.8	4541.5	4005.9	4018.3	3749.3
29.5°	5338.5	5202.5	4778.1	4537.0	4005.9	4018.3	3669.5
30°	5338.5	5202.5	4778.1	4490.3	3939.8	3955.0	3661.8
30.5°	5327.6	5182.6	4738.5	4485.1	3939.8	3955.0	3570.7
31°	5325.4	5163.7	4697.5	4435.3	3877.1	3880.8	3561.4
31.5°	5316.4	5162.5	4697.5	4435.3	3877.1	3817.6	3307.0
32°	5313.4	5143.6	4658.7	4377.5	3808.0	3808.9	3307.0
32.5°	5308.9	5143.0	4658.7	4377.5	3808.0	3739.6	3297.3
33°	5298.8	5122.3	4616.0	4322.2	3739.2	3731.0	3297.3
33.5°	5298.8	5122.3	4616.0	4268.7	3664.7	3650.0	3287.2
34°	5291.8	5102.1	4571.9	4262.9	3664.7	3650.0	3177.3
34.5°	5291.8	5102.1	4571.9	4210.2	3595.6	3563.0	3050.4
35°	5280.2	5083.5	4527.3	4204.3	3595.6	3563.0	3050.4
35.5°	5280.2	5065.4	4524.7	4147.8	3522.1	3469.5	2918.8
36°	5273.3	5064.7	4480.3	4141.6	3522.1	3469.5	2918.8
36.5°	5271.8	5048.1	4435.1	4079.8	3443.5	3373.7	2783.3
37°	5271.8	5048.1	4435.1	4079.8	3443.5	3279.6	2770.0
37.5°	5269.3	5032.3	4383.9	4016.5	3360.3	3269.0	2645.0
38°	5259.5	5030.9	4383.9	4016.5	3283.5	3158.9	2631.1
38.5°	5257.8	5015.1	4332.0	3947.8	3274.8	3158.9	2499.3
39°	5254.8	4998.9	4329.8	3889.8	3183.1	3037.2	2483.9
39.5°	5252.9	4998.9	4283.1	3883.2	3183.1	3037.2	2354.4
40°	5249.9	4998.4	4283.1	3816.2	3092.4	2914.3	2212.2
40.5°	5247.9	4984.9	4228.5	3808.8	3092.4	2914.3	2212.2
41°	5244.8	4970.2	4173.0	3731.3	2994.4	2785.2	2073.8
41.5°	5243.8	4970.2	4173.0	3731.3	2994.4	2663.3	2056.7
42°	5238.1	4955.3	4116.8	3653.6	2889.7	2649.9	1939.2
42.5°	5238.1	4955.3	4116.8	3653.6	2889.7	2525.0	1921.7
43°	5227.9	4939.9	4059.9	3577.4	2779.2	2510.8	1812.5
43.5°	5221.9	4939.0	4059.9	3502.1	2667.7	2368.6	1794.5
44°	5220.1	4926.2	4001.6	3494.2	2667.7	2368.6	1687.6
44.5°	5210.3	4924.8	4001.6	3421.1	2549.8	2222.5	1669.2

REPORT NUMBER: P1197107

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	5208.5	4909.8	3940.8	3412.9	2549.8	2222.5	1575.1
45.5°	5201.0	4898.2	3939.3	3335.3	2430.5	2077.0	1437.8
46°	5199.8	4898.2	3877.5	3326.6	2430.5	2077.0	1437.8
46.5°	5170.9	4884.0	3810.6	3236.9	2307.7	1935.6	1283.8
47°	5170.9	4884.0	3810.6	3236.9	2307.7	1813.6	1266.7
47.5°	5140.3	4862.1	3741.8	3148.5	2177.7	1796.9	1165.8
48°	5100.4	4856.4	3741.8	3148.5	2177.7	1683.2	1149.8
48.5°	5096.3	4839.1	3673.8	3055.7	2040.2	1665.5	1060.2
49°	5051.9	4832.9	3673.8	2975.2	1898.6	1538.8	1045.0
49.5°	5048.9	4811.8	3608.4	2966.4	1898.6	1538.8	932.8
50°	4995.5	4804.3	3608.4	2882.8	1749.1	1420.8	769.9
50.5°	4990.6	4781.7	3540.5	2873.7	1749.1	1420.8	769.9
51°	4935.6	4749.9	3537.1	2795.4	1601.1	1308.9	756.8
51.5°	4931.8	4749.9	3461.8	2784.8	1601.1	1222.3	610.6
52°	4877.8	4712.1	3383.7	2692.4	1463.0	1204.5	512.0
52.5°	4877.8	4712.1	3383.7	2692.4	1463.0	1117.2	499.7
53°	4831.0	4680.6	3306.3	2599.2	1340.0	1101.5	429.0
53.5°	4815.9	4678.5	3306.3	2511.1	1234.2	959.7	410.9
54°	4815.9	4651.4	3227.2	2500.5	1234.2	959.7	357.4
54.5°	4832.6	4654.1	3227.2	2500.5	1163.5	851.1	343.5
55°	4835.3	4631.5	3159.3	2361.9	1145.2	851.1	309.7
55.5°	4897.8	4640.3	3159.3	2361.9	1088.8	740.0	276.3
56°	4911.7	4651.6	3099.9	2263.0	1076.1	740.0	276.3
56.5°	5047.9	4755.1	3047.0	2253.9	992.5	611.6	250.9
57°	5077.8	4755.1	3047.0	2156.8	978.8	519.0	237.9
57.5°	5375.0	4970.6	3004.6	2147.3	852.4	501.2	237.9
58°	5375.0	4970.6	3004.6	2052.4	839.0	443.2	229.7
58.5°	5767.2	5291.8	2969.8	2042.1	712.5	425.4	225.2
59°	6054.8	5332.2	2969.8	1945.8	623.7	377.2	219.9
59.5°	6068.8	5625.8	2941.8	1839.7	610.1	377.2	208.6
60°	6071.1	5626.1	2941.8	1839.7	570.2	349.7	205.5
60.5°	6039.2	5763.9	2893.4	1737.5	557.2	349.7	192.0
61°	5595.0	5549.3	2872.1	1737.5	531.6	330.3	182.2
61.5°	5514.1	5549.3	2807.3	1636.6	518.7	330.3	182.2
62°	4675.6	4944.7	2681.9	1628.8	499.9	307.3	185.4
62.5°	4675.6	4944.7	2681.9	1534.7	486.6	290.0	182.9
63°	3898.6	4142.8	2540.1	1528.5	470.8	287.8	208.5
63.5°	3358.1	4078.0	2540.1	1434.4	457.6	278.8	207.3
64°	3319.9	3495.3	2421.2	1335.8	425.6	276.1	207.3
64.5°	3322.2	3495.6	2421.2	1335.8	418.1	269.8	211.0
65°	3340.9	3162.8	2350.3	1238.3	404.9	269.8	211.0
65.5°	3337.2	3162.3	2350.3	1238.3	404.9	266.8	243.7
66°	3344.4	3227.8	2365.5	1145.1	384.1	265.7	462.8
66.5°	2331.0	3223.8	2434.0	1152.0	375.1	262.2	462.5
67°	2211.3	3223.8	2434.0	1057.9	361.8	256.9	863.8

REPORT NUMBER: P1197107

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	870.4	2428.0	2450.8	1072.7	349.0	255.1	863.8
68°	870.4	2428.0	2450.8	977.8	335.7	248.3	1085.7
68.5°	306.8	1260.1	2374.2	988.9	321.4	246.3	1085.7
69°	251.1	1252.3	2374.2	907.5	295.6	239.1	1296.5
69.5°	228.8	476.1	2246.9	836.5	286.0	239.1	1296.5
70°	233.3	476.7	2246.9	836.5	273.2	232.0	1450.1
70.5°	260.2	215.7	2100.4	742.1	262.1	232.0	1508.8
71°	260.2	215.7	2100.4	742.1	249.3	211.4	1506.1
71.5°	259.0	193.8	1899.4	642.7	239.2	211.4	1497.1
72°	256.0	179.8	1624.2	604.3	227.2	187.1	1493.9
72.5°	257.4	179.8	1624.2	566.6	221.9	158.5	1321.3
73°	203.3	180.7	1282.8	518.4	210.6	156.9	1321.3
73.5°	203.3	180.7	1282.8	483.1	205.6	125.3	1125.6
74°	174.4	175.3	973.8	439.6	190.6	123.1	1125.6
74.5°	163.1	173.7	973.8	402.0	172.5	89.7	875.0
75°	160.4	134.5	728.9	329.9	167.1	89.7	875.0
75.5°	149.8	133.1	728.9	329.9	155.8	82.1	468.3
76°	148.8	106.7	542.3	260.5	149.6	82.1	468.3
76.5°	160.1	100.0	541.1	260.5	139.1	87.4	469.3
77°	158.8	100.0	393.6	190.8	132.2	87.4	469.3
77.5°	171.1	91.2	291.2	176.6	108.1	96.8	243.0
78°	171.1	91.2	291.2	139.7	102.9	167.6	252.9
78.5°	179.8	91.5	233.9	131.7	84.1	164.9	202.5
79°	182.8	91.9	233.9	110.6	81.1	383.3	233.2
79.5°	184.1	98.7	198.7	92.0	67.2	381.6	197.8
80°	184.1	98.7	198.7	92.0	60.4	602.7	229.1
80.5°	173.3	106.0	166.8	76.0	58.8	602.7	202.7
81°	173.3	106.0	166.8	76.0	47.5	654.6	188.4
81.5°	145.4	111.0	141.8	61.8	46.0	654.6	188.4
82°	145.4	116.3	121.4	58.8	29.5	620.6	160.6
82.5°	107.9	111.0	121.4	50.5	28.3	557.4	151.7
83°	107.2	112.5	101.3	47.7	18.5	556.0	129.9
83.5°	76.4	108.2	101.3	40.1	17.5	476.9	118.8
84°	74.6	104.4	78.9	37.1	11.4	476.1	97.7
84.5°	58.7	102.2	78.9	31.0	6.8	396.5	86.6
85°	53.6	89.8	51.7	22.2	6.1	396.5	66.2
85.5°	53.6	89.8	51.7	22.2	3.8	313.4	54.6
86°	58.2	72.8	22.0	13.8	3.2	313.4	44.8
86.5°	58.2	72.8	22.0	13.8	1.7	207.0	29.1
87°	59.3	53.8	6.5	8.3	1.2	207.0	29.1
87.5°	59.3	36.4	4.0	8.3	1.2	118.9	16.7
88°	57.6	36.4	4.0	5.3	0.7	50.4	7.1
88.5°	57.6	22.9	2.1	5.3	0.7	50.4	7.1
89°	54.8	22.7	2.1	3.0	0.4	3.0	0.4
89.5°	48.2	12.8	0.8	3.0	0.4	3.0	0.4

REPORT NUMBER: P1197107

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	48.2	12.8	0.8	1.5	0.2	1.5	0.2
90.5°	36.9	6.7	0.2	0.8	0.1	1.5	0.2
91°	36.9	5.9	0.1	0.8	0.1	1.5	0.2
91.5°	19.6	3.5	0.1	0.0	0.0	1.5	0.2
92°	19.6	2.8	0.0	0.0	0.0	0.8	0.1
92.5°	2.3	0.3	0.0	0.0	0.0	0.8	0.1
93°	2.3	0.3	0.0	0.0	0.0	0.8	0.1
93.5°	0.8	0.1	0.0	0.0	0.0	0.8	0.1
94°	0.8	0.1	0.0	0.0	0.0	0.8	0.1
94.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
95°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
95.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
96°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
96.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
97°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
97.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
98°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
98.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
99°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
99.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
100°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
100.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
101°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
101.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
105°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
105.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
106°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
106.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
108°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
108.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
109°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
109.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
110°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
110.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
111°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
111.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
112°	0.0	0.0	0.0	0.0	0.0	0.8	0.1

REPORT NUMBER: P1197107

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
113°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
113.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
114°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
114.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.1
115°	0.0	0.0	0.0	0.0	0.0	0.8	0.9
115.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.9
116°	0.0	0.0	0.0	0.0	0.0	0.8	0.9
116.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.9
117°	0.0	0.0	0.0	0.0	0.0	0.8	0.9
117.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.9
118°	0.0	0.0	0.0	0.0	0.0	0.8	0.9
118.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.9
119°	0.0	0.0	0.0	0.0	0.0	0.8	0.9
119.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.9
120°	0.0	0.0	0.0	0.0	0.0	0.8	0.9
120.5°	0.0	0.0	0.0	0.0	0.8	0.9	0.9
121°	0.0	0.0	0.0	0.0	0.8	0.9	0.9
121.5°	0.0	0.0	0.0	0.0	0.8	0.9	0.9
122°	0.0	0.0	0.0	0.0	0.8	1.6	1.0
122.5°	0.0	0.0	0.0	0.0	0.8	1.6	1.0
123°	0.0	0.0	0.0	0.0	0.8	0.9	0.9
123.5°	0.0	0.0	0.0	0.0	0.8	0.9	0.9
124°	0.0	0.0	0.0	0.0	0.8	1.6	1.0
124.5°	0.0	0.0	0.0	0.0	0.8	1.6	1.0
125°	0.0	0.0	0.0	0.0	0.8	1.6	1.0
125.5°	0.0	0.0	0.0	0.0	0.8	1.6	1.0
126°	0.0	0.0	0.0	0.0	0.8	1.6	1.0
126.5°	0.0	0.0	0.0	0.8	0.9	1.6	1.0
127°	0.0	0.0	0.0	0.8	0.9	1.6	1.0
127.5°	0.0	0.0	0.0	0.8	0.9	1.6	1.0
128°	0.0	0.0	0.0	0.8	0.9	1.6	1.0
128.5°	0.0	0.0	0.0	0.8	0.9	1.6	1.0
129°	0.0	0.0	0.0	0.8	0.9	1.6	1.0
129.5°	0.0	0.0	0.0	0.8	0.9	1.6	1.7
130°	0.0	0.0	0.0	0.8	0.9	1.6	1.7
130.5°	0.0	0.0	0.0	0.8	0.9	1.6	1.7
131°	0.0	0.0	0.0	0.8	0.9	1.6	1.7
131.5°	0.0	0.0	0.0	0.8	0.9	1.6	1.7
132°	0.0	0.0	0.0	0.8	0.9	1.6	1.7
132.5°	0.0	0.0	0.0	0.8	0.9	1.6	1.7
133°	0.0	0.0	0.0	0.8	0.9	1.6	1.7
133.5°	0.0	0.0	0.0	0.8	0.9	1.6	1.7
134°	0.0	0.0	0.0	0.8	0.9	1.6	1.7
134.5°	0.0	0.0	0.8	0.9	0.9	1.6	1.7

REPORT NUMBER: P1197107

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	0.0	0.0	0.8	0.9	0.9	1.6	1.7
135.5°	0.0	0.0	0.8	0.9	0.9	1.6	1.7
136°	0.0	0.0	0.8	0.9	0.9	1.6	1.7
136.5°	0.0	0.0	0.0	0.8	0.9	1.6	1.7
137°	0.0	0.0	0.0	0.8	0.9	1.6	1.7
137.5°	0.0	0.0	0.0	0.8	0.9	1.6	1.7
138°	0.0	0.0	0.0	0.8	0.9	1.6	1.7
138.5°	0.0	0.8	0.9	0.9	0.9	1.6	1.7
139°	0.0	0.8	0.9	0.9	0.9	1.6	1.7
139.5°	0.0	0.8	0.9	0.9	0.9	1.6	1.7
140°	0.0	0.8	0.9	0.9	0.9	1.6	1.7
140.5°	0.0	0.0	0.8	0.9	0.9	1.6	1.7
141°	0.0	0.0	0.8	0.9	0.9	1.6	1.7
141.5°	0.0	0.8	0.9	0.9	0.9	1.6	1.7
142°	0.0	0.8	0.9	0.9	0.9	1.6	1.7
142.5°	0.0	0.8	0.9	0.9	0.9	1.6	1.7
143°	0.0	0.8	0.9	0.9	1.6	1.7	1.7
143.5°	0.0	0.8	0.9	0.9	1.6	1.7	1.7
144°	0.0	0.8	0.9	0.9	1.6	1.7	1.7
144.5°	0.0	0.8	0.9	0.9	1.6	1.7	1.7
145°	0.0	0.8	0.9	0.9	1.6	1.7	1.7
145.5°	0.0	0.8	0.9	0.9	0.9	1.6	1.7
146°	0.0	0.8	0.9	0.9	0.9	1.6	1.7
146.5°	0.0	0.8	0.9	0.9	0.9	1.6	1.7
147°	0.0	0.8	0.9	0.9	0.9	1.6	1.7
147.5°	0.0	0.8	0.9	0.9	0.9	1.6	1.7
148°	0.0	0.8	0.9	0.9	1.6	1.7	1.7
148.5°	0.0	0.8	0.9	1.6	1.7	1.7	1.7
149°	0.8	0.9	0.9	1.6	1.7	1.7	1.7
149.5°	0.8	0.9	0.9	1.6	1.7	1.7	1.7
150°	0.0	0.8	0.9	1.6	1.7	1.7	1.7
150.5°	0.1	0.8	0.9	1.6	1.7	1.7	1.7
151°	0.9	0.9	0.9	1.6	1.7	1.7	1.7
151.5°	0.8	0.9	0.9	1.6	1.7	1.7	1.7
152°	0.8	0.9	0.9	1.6	1.7	1.7	1.7
152.5°	0.9	0.9	0.9	1.6	1.7	1.7	1.7
153°	0.9	0.9	0.9	1.6	1.7	1.7	1.7
153.5°	0.8	0.9	0.9	1.6	1.7	1.7	1.7
154°	0.8	0.9	0.9	1.6	1.7	1.7	1.7
154.5°	0.9	0.9	0.9	1.6	1.7	1.7	1.7
155°	0.9	0.9	0.9	1.6	1.7	1.7	1.7
155.5°	0.9	0.9	0.9	1.6	1.7	1.7	1.7
156°	0.9	0.9	0.9	1.6	1.7	1.7	1.7
156.5°	0.9	0.9	1.6	1.7	1.7	1.7	1.7
157°	0.9	0.9	1.6	1.7	1.7	1.7	1.7

REPORT NUMBER: P1197107

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-3000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	0.9	0.9	1.6	1.7	1.7	1.7	1.7
158°	0.9	0.9	1.6	1.7	1.7	1.7	1.7
158.5°	0.9	0.9	1.6	1.7	1.7	1.7	1.7
159°	0.9	0.9	1.6	1.7	1.7	1.7	1.7
159.5°	0.9	0.9	1.6	1.7	1.7	1.7	1.7
160°	0.9	0.9	1.6	1.7	1.7	1.7	1.7
160.5°	0.9	0.9	1.6	1.7	1.7	1.7	1.7
161°	0.9	0.9	1.6	1.7	1.7	1.7	1.7
161.5°	0.9	1.6	1.7	1.7	1.7	1.7	1.7
162°	0.9	1.6	1.7	1.7	1.7	1.7	1.7
162.5°	0.9	1.6	1.7	1.7	1.7	1.7	1.7
163°	0.9	1.6	1.7	1.7	1.7	1.7	1.7
163.5°	0.9	1.6	1.7	1.7	1.7	1.7	1.7
164°	0.9	1.6	1.7	1.7	1.7	1.7	1.7
164.5°	0.9	1.6	1.7	1.7	1.7	1.7	1.7
165°	0.9	1.6	1.7	1.7	1.7	1.7	1.7
165.5°	0.9	1.6	1.7	1.7	1.7	1.7	1.7
166°	0.9	1.6	1.7	1.7	1.7	1.7	1.7
166.5°	0.9	1.6	1.7	1.7	1.7	1.7	1.7
167°	0.9	1.6	1.7	1.7	1.7	1.7	1.7
167.5°	0.9	1.6	1.7	1.7	1.7	1.7	1.7
168°	1.0	1.6	1.7	1.7	1.7	1.7	1.7
168.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
169°	1.6	1.7	1.7	1.7	1.7	1.7	1.7
169.5°	1.6	1.7	1.7	1.7	1.7	1.7	1.7
170°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
170.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
171°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
171.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
172°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
172.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
173°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
173.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
174°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
174.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
175°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
175.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
176°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
176.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
177°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
177.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
178°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
178.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
179°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
179.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7



REPORT NUMBER: P1197107
CATALOG NUMBER: AWPf150S-BZ-BZ-LOW-3000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	1.7	1.7	1.7	1.7	1.7	1.7	1.7

(END OF REPORT)