

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: P1197122

Luminaire Tested: AWP150S-BZ-BZ-LOW-5000K-POSITION 15

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197122
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-5000K-POSITION 15
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 5000K
Ballast/Driver: -

Summary

Lumens per Lamp: 19305 (1 lamp)
Luminaire Lumens: 14456.2 lumens
Efficiency: 74.9%
Efficacy: 144.7 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): 99.9
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

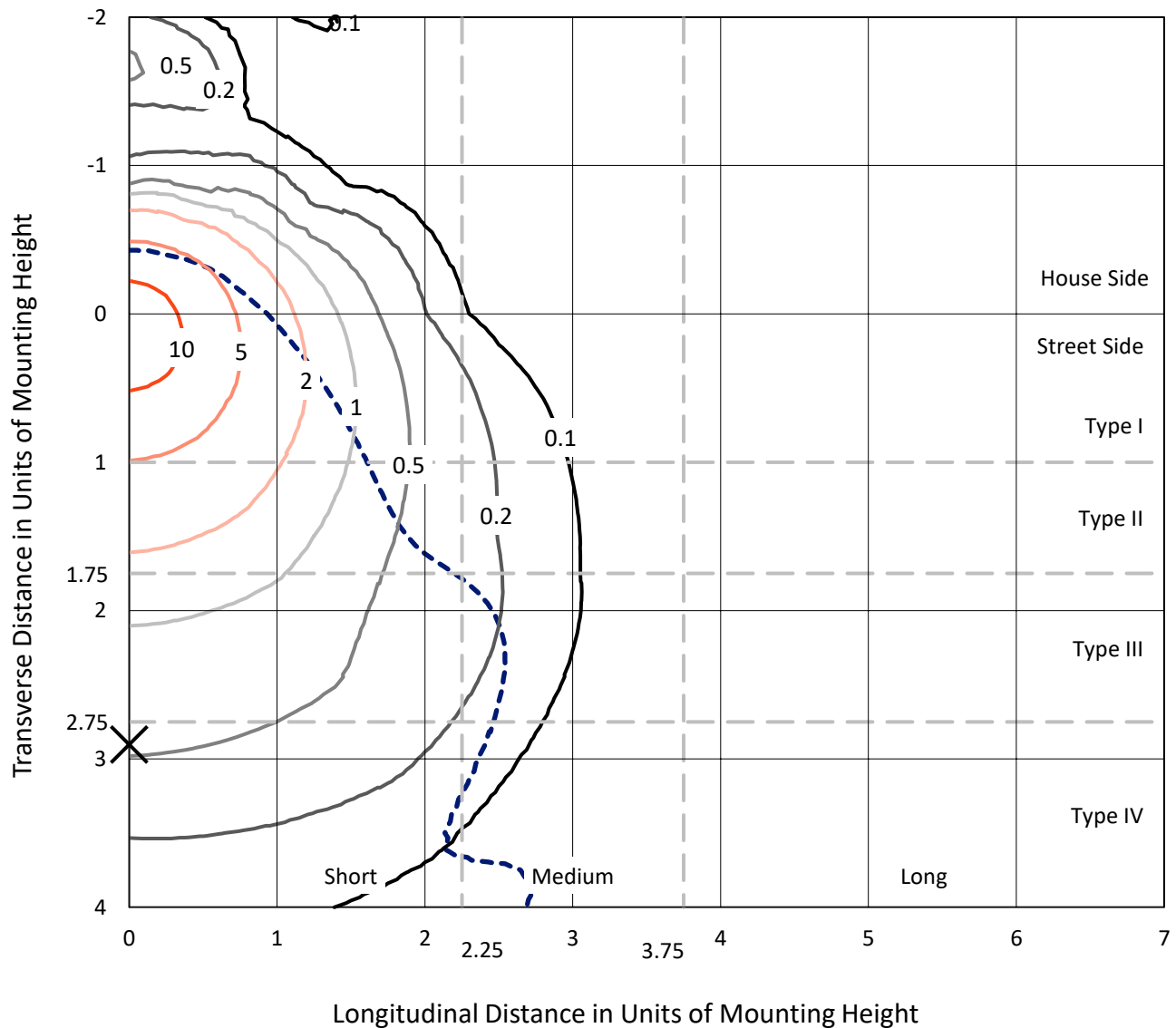
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

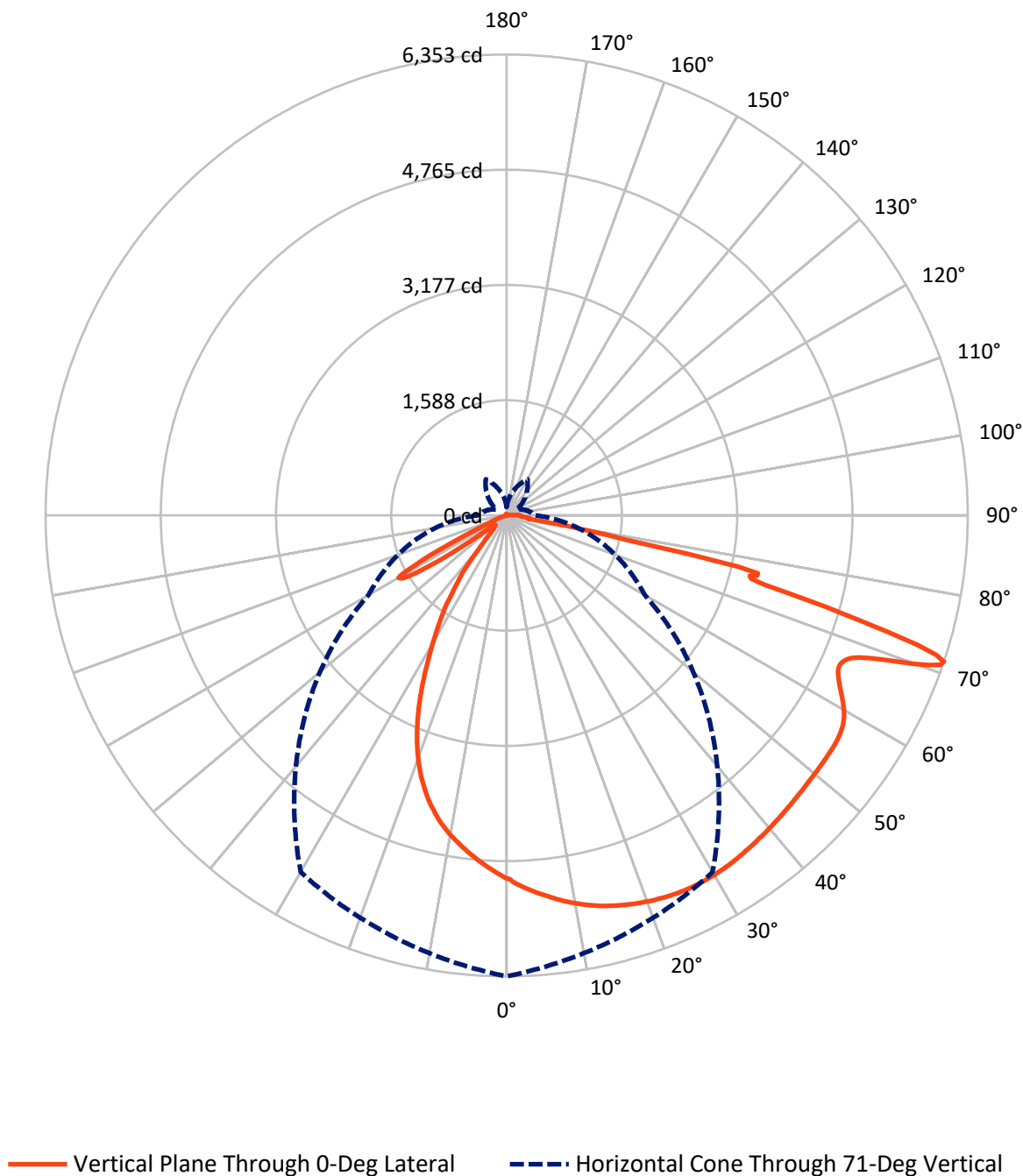


Based on 20 foot mounting height. Maximum calculated value = 13 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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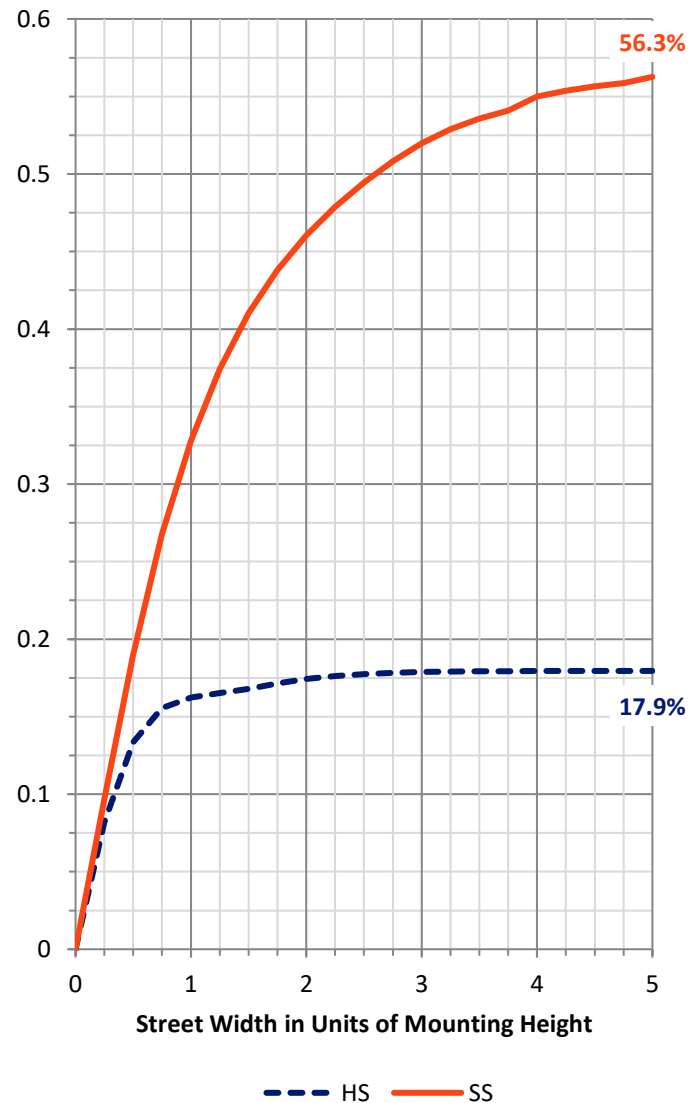
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3491.4	32.9	3524.3
	% Lamp	18.1	0.2	18.3
Street Side	Lumens	10886.5	45.4	10931.9
	% Lamp	56.4	0.2	56.6
Total	Lumens	14377.9	78.3	14456.2
	% Lamp	74.5	0.4	74.9

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	474.8	3.3	2.5
10°-20°	1359.0	9.4	7.0
20°-30°	2012.5	13.9	10.4
30°-40°	2291.2	15.8	11.9
40°-50°	2244.2	15.5	11.6
50°-60°	2171.7	15.0	11.2
60°-70°	1996.9	13.8	10.3
70°-80°	1526.9	10.6	7.9
80°-90°	300.7	2.1	1.6
90°-100°	34.9	0.2	0.2
100°-110°	5.2	0.0	0.0
110°-120°	6.1	0.0	0.0
120°-130°	7.0	0.0	0.0
130°-140°	7.3	0.1	0.0
140°-150°	6.9	0.0	0.0
150°-160°	5.7	0.0	0.0
160°-170°	3.8	0.0	0.0
170°-180°	1.4	0.0	0.0
0°-90°	14377.9	99.5	74.5
0°-180°	14456.2	100.0	74.9

Coefficient of Utilization



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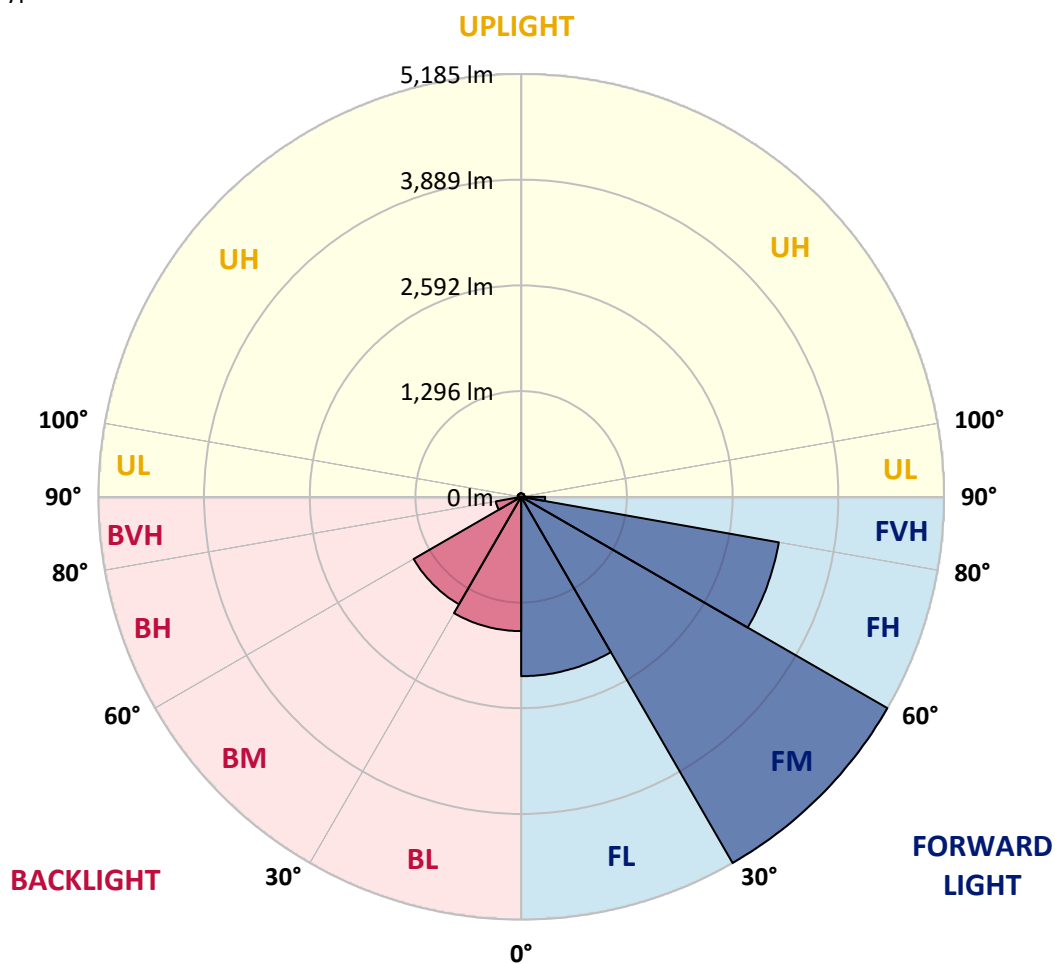
CATALOG NUMBER: AWPf150S-BZ-BZ-LOW-5000K-POSITION 15

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2199.0	11.4			
FM	(30°-60°)	5184.7	26.9			
FH	(60°-80°)	3207.8	16.6			G2/5000
FVH	(80°-90°)	294.9	1.5			G3/500
BL	(0°-30°)	1647.3	8.5	B3/2500		
BM	(30°-60°)	1522.4	7.9	B2/2500		
BH	(60°-80°)	316.0	1.6	B1/500		G1/500
BVH	(80°-90°)	5.7	0.0			G0/10
UL	(90°-100°)	34.9	0.2		U2/50	
UH	(100°-180°)	43.4	0.2		U2/50	
Trapped Light		4848.8	25.1			

BUG Rating: B3-U2-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	5012.9	5012.9	5012.9	5012.9	5012.9	5012.9	5012.9
0.5°	5053.0	5052.0	5032.3	5011.5	4988.6	4962.3	5005.2
1°	5078.1	5071.0	5044.2	5010.8	4976.1	4940.5	4980.2
1.5°	5100.1	5090.1	5054.9	5008.7	4963.2	4919.0	4955.0
2°	5123.7	5109.2	5064.9	5007.2	4949.8	4896.4	4931.1
2.5°	5147.2	5128.8	5074.7	5005.2	4935.7	4875.4	4905.7
3°	5169.6	5147.6	5084.3	5002.5	4921.7	4854.2	4880.1
3.5°	5191.3	5166.2	5093.3	4999.1	4907.0	4831.5	4856.8
4°	5213.5	5183.9	5102.7	4995.6	4892.5	4808.8	4830.7
4.5°	5233.2	5202.6	5110.8	4991.5	4876.9	4786.3	4805.4
5°	5253.2	5218.5	5117.9	4985.6	4862.4	4762.8	4779.4
5.5°	5274.7	5234.6	5125.2	4980.5	4845.7	4738.2	4751.8
6°	5294.7	5250.0	5132.6	4974.5	4829.0	4714.1	4724.6
6.5°	5315.5	5266.5	5138.4	4968.2	4811.8	4688.9	4698.2
7°	5335.7	5282.5	5144.8	4960.1	4793.7	4662.9	4670.7
7.5°	5355.5	5298.4	5150.0	4953.1	4776.1	4638.9	4640.7
8°	5375.8	5313.3	5155.5	4945.3	4756.8	4611.9	4614.6
8.5°	5393.2	5328.5	5159.6	4937.5	4737.5	4584.2	4585.4
9°	5410.4	5343.2	5164.1	4928.3	4718.4	4558.7	4556.2
9.5°	5428.7	5356.3	5168.2	4918.7	4697.9	4531.3	4526.4
10°	5445.0	5369.3	5170.8	4907.9	4675.3	4504.7	4499.7
10.5°	5461.7	5381.8	5173.7	4897.2	4654.7	4477.2	4468.7
11°	5477.6	5394.3	5176.3	4886.3	4633.1	4448.8	4435.8
11.5°	5492.3	5405.0	5178.1	4874.9	4610.7	4419.0	4403.4
12°	5507.3	5416.2	5179.5	4863.6	4588.3	4388.6	4371.0
12.5°	5520.9	5426.9	5180.2	4850.5	4565.9	4357.5	4336.0
13°	5534.5	5436.4	5181.4	4837.6	4541.4	4326.0	4298.7
13.5°	5547.8	5444.6	5182.1	4823.3	4520.8	4293.0	4261.5
14°	5559.7	5454.7	5181.3	4809.6	4499.2	4259.2	4221.6
14.5°	5570.2	5463.5	5179.9	4794.6	4476.1	4223.8	4179.5
15°	5580.6	5470.8	5179.8	4778.0	4453.0	4186.3	4140.1
15.5°	5592.1	5478.2	5177.7	4762.5	4429.9	4148.7	4095.7
16°	5602.1	5485.7	5175.6	4746.0	4406.7	4109.9	4050.8
16.5°	5612.1	5491.3	5173.5	4729.1	4383.5	4067.8	4003.4
17°	5621.4	5497.5	5170.0	4712.2	4356.6	4026.6	3953.0
17.5°	5630.2	5502.4	5166.7	4694.2	4328.1	3983.3	3900.9
18°	5638.8	5507.6	5163.2	4676.0	4300.1	3938.0	3850.1
18.5°	5648.2	5511.9	5160.2	4658.7	4270.6	3893.2	3800.1
19°	5655.5	5516.6	5155.6	4639.8	4240.8	3845.6	3742.4
19.5°	5663.5	5519.8	5150.7	4620.8	4211.2	3797.3	3683.2
20°	5671.7	5522.6	5145.1	4601.8	4179.1	3747.4	3625.2
20.5°	5678.2	5526.5	5138.7	4581.9	4147.9	3696.9	3562.0
21°	5683.7	5530.1	5131.5	4560.4	4115.5	3639.8	3498.4
21.5°	5690.1	5531.4	5124.6	4540.3	4083.3	3585.1	3431.1
22°	5696.7	5532.7	5117.0	4521.3	4048.9	3528.5	3365.7

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	5701.3	5534.1	5110.1	4501.2	4014.0	3468.2	3293.0
23°	5706.1	5535.4	5101.6	4480.0	3979.3	3408.5	3220.5
23.5°	5711.5	5536.1	5093.2	4458.0	3943.4	3346.3	3146.0
24°	5715.7	5535.4	5084.2	4434.5	3906.9	3281.8	3073.5
24.5°	5719.0	5535.3	5075.0	4410.8	3867.9	3216.0	2995.8
25°	5722.3	5534.6	5064.6	4386.8	3828.7	3148.4	2916.5
25.5°	5725.0	5533.3	5054.4	4363.3	3788.8	3081.2	2837.3
26°	5725.4	5532.5	5044.0	4337.5	3747.6	3007.5	2757.2
26.5°	5725.6	5529.8	5032.3	4311.8	3705.9	2935.8	2674.6
27°	5726.0	5527.2	5021.3	4285.7	3663.6	2862.0	2589.4
27.5°	5726.3	5524.3	5009.3	4257.3	3617.7	2783.1	2506.6
28°	5726.6	5520.9	4996.6	4229.8	3573.0	2708.1	2425.1
28.5°	5726.9	5515.6	4983.4	4202.2	3527.0	2631.4	2343.0
29°	5724.8	5510.7	4970.2	4173.5	3478.3	2548.1	2264.2
29.5°	5723.5	5505.9	4956.3	4145.0	3429.1	2467.3	2184.3
30°	5720.0	5500.4	4942.2	4116.3	3379.8	2390.6	2104.9
30.5°	5717.8	5494.2	4926.0	4087.2	3329.1	2309.5	2031.2
31°	5713.9	5486.9	4909.7	4056.1	3278.8	2229.3	1961.7
31.5°	5711.8	5479.1	4894.2	4027.1	3225.3	2153.8	1892.3
32°	5707.7	5473.1	4876.9	3995.6	3171.7	2073.8	1822.9
32.5°	5704.3	5465.4	4861.3	3964.3	3116.8	1988.0	1753.5
33°	5698.9	5456.9	4842.6	3932.8	3060.5	1921.0	1684.1
33.5°	5694.1	5449.3	4823.9	3900.1	3002.2	1854.1	1621.8
34°	5689.8	5441.8	4805.7	3867.6	2943.1	1787.3	1563.9
34.5°	5685.1	5433.1	4785.3	3835.3	2881.8	1720.4	1493.7
35°	5678.8	5424.9	4764.3	3803.9	2819.2	1654.8	1394.2
35.5°	5673.5	5415.7	4744.5	3769.9	2754.9	1589.6	1309.5
36°	5668.7	5406.0	4723.7	3735.7	2690.4	1530.9	1236.5
36.5°	5663.9	5395.3	4700.9	3698.0	2622.0	1471.9	1172.0
37°	5657.8	5384.9	4678.2	3661.4	2555.2	1414.2	1114.2
37.5°	5651.8	5373.9	4657.8	3624.9	2487.2	1360.4	1056.1
38°	5646.9	5362.8	4634.7	3587.9	2417.0	1312.3	989.5
38.5°	5642.0	5352.5	4609.9	3547.9	2345.3	1247.3	910.3
39°	5637.1	5340.9	4586.9	3509.5	2272.8	1163.1	814.1
39.5°	5631.9	5330.1	4563.4	3470.7	2201.9	1087.8	719.5
40°	5627.0	5318.4	4539.0	3429.9	2130.2	1019.6	630.0
40.5°	5621.5	5306.8	4517.2	3388.9	2059.4	960.2	554.6
41°	5616.0	5295.7	4495.4	3347.7	1989.0	898.4	490.7
41.5°	5611.1	5283.7	4472.7	3305.2	1919.0	829.9	441.4
42°	5604.9	5271.2	4450.0	3261.5	1849.8	747.4	396.6
42.5°	5599.7	5258.4	4427.4	3217.8	1785.4	663.1	358.5
43°	5594.7	5245.7	4404.7	3173.7	1724.4	578.1	328.2
43.5°	5589.5	5232.6	4381.7	3128.6	1666.8	508.9	303.7
44°	5583.4	5218.4	4355.1	3085.0	1613.9	451.7	284.6
44.5°	5579.2	5208.4	4328.4	3039.1	1562.6	412.4	270.9

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	5573.7	5194.9	4301.9	2992.3	1508.4	384.2	261.3
45.5°	5569.6	5180.6	4274.6	2946.1	1447.9	366.3	254.1
46°	5566.1	5167.0	4247.3	2898.4	1382.3	356.2	249.7
46.5°	5561.9	5154.6	4219.4	2852.4	1320.3	349.6	247.3
47°	5557.2	5140.8	4191.6	2805.4	1262.6	343.7	245.7
47.5°	5553.6	5126.4	4163.1	2759.0	1213.6	338.1	242.4
48°	5549.1	5114.2	4134.9	2712.0	1168.8	331.7	235.2
48.5°	5545.6	5102.8	4106.9	2665.4	1126.2	325.9	225.4
49°	5543.5	5090.7	4077.8	2619.3	1083.7	321.4	214.6
49.5°	5540.1	5079.8	4049.6	2573.4	1037.9	318.4	210.4
50°	5538.0	5067.8	4020.5	2527.9	984.8	316.4	206.6
50.5°	5535.9	5057.5	3988.9	2482.9	920.3	314.3	202.8
51°	5533.7	5049.2	3958.3	2435.0	847.4	310.1	199.0
51.5°	5530.5	5039.1	3927.7	2389.0	769.3	304.0	205.0
52°	5528.3	5028.1	3894.0	2337.9	690.4	298.0	213.9
52.5°	5526.2	5019.7	3860.3	2287.9	622.8	293.5	224.1
53°	5524.1	5011.4	3827.3	2233.7	564.0	290.2	231.2
53.5°	5521.4	5003.7	3792.1	2180.4	518.6	287.0	231.9
54°	5518.7	4994.5	3756.5	2123.2	484.1	283.7	243.7
54.5°	5515.2	4985.7	3721.4	2067.8	460.1	280.8	398.7
55°	5510.5	4976.4	3684.4	2011.9	436.1	278.7	563.1
55.5°	5504.7	4969.1	3646.2	1956.5	412.1	277.1	727.5
56°	5497.3	4960.8	3608.6	1901.1	388.1	274.8	892.0
56.5°	5488.7	4953.9	3569.3	1845.6	364.9	270.2	1056.3
57°	5476.3	4947.8	3527.6	1790.3	354.7	260.2	1188.1
57.5°	5463.1	4942.2	3487.0	1731.3	346.3	243.6	1318.5
58°	5444.4	4935.4	3443.5	1667.8	338.2	217.5	1448.6
58.5°	5422.2	4927.1	3398.3	1602.6	330.6	201.3	1557.8
59°	5395.8	4919.2	3354.3	1533.4	322.7	185.6	1640.7
59.5°	5367.2	4906.0	3308.6	1465.1	315.3	169.8	1683.3
60°	5333.6	4893.4	3262.6	1398.0	307.9	153.9	1705.2
60.5°	5297.5	4880.5	3215.5	1328.2	300.1	141.9	1718.3
61°	5258.2	4865.9	3169.6	1258.2	292.1	125.7	1672.0
61.5°	5219.9	4850.3	3123.9	1186.3	284.5	112.1	1559.3
62°	5183.8	4835.2	3078.4	1115.5	277.0	109.0	1436.6
62.5°	5147.8	4819.6	3032.6	1045.0	269.6	111.5	1322.2
63°	5116.4	4803.9	2983.0	977.8	262.0	115.5	1187.9
63.5°	5086.2	4788.7	2929.8	910.8	254.6	121.0	1024.8
64°	5059.9	4775.6	2877.7	847.6	248.0	132.3	851.8
64.5°	5039.8	4761.6	2826.2	788.5	242.1	163.1	670.4
65°	5031.3	4748.2	2775.0	736.4	236.7	287.3	522.9
65.5°	5035.7	4735.4	2725.7	692.2	230.9	413.4	422.9
66°	5053.6	4720.0	2676.0	656.1	224.9	539.7	353.4
66.5°	5087.1	4713.2	2628.8	627.3	219.1	665.9	305.4
67°	5140.5	4718.1	2583.5	596.8	214.0	792.3	266.3

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	5231.5	4746.2	2536.9	548.3	208.6	839.1	234.5
68°	5360.9	4803.0	2488.6	493.8	202.1	831.6	209.6
68.5°	5541.4	4882.1	2442.0	456.7	194.2	802.1	193.2
69°	5760.1	5004.2	2395.4	440.4	187.1	764.0	177.1
69.5°	5982.7	5153.5	2347.4	430.1	177.9	723.3	161.0
70°	6182.9	5333.6	2297.1	421.7	169.5	677.7	144.9
70.5°	6324.8	5520.4	2247.7	410.3	162.9	626.7	131.7
71°	6353.4	5675.6	2197.4	395.4	156.5	575.1	117.9
71.5°	6225.0	5770.3	2149.6	378.0	149.4	525.1	103.5
72°	5938.3	5798.3	2105.7	360.2	139.3	479.4	90.5
72.5°	5482.4	5702.7	2061.5	343.6	122.0	432.2	78.2
73°	5026.0	5478.4	2023.7	327.6	110.3	383.7	64.3
73.5°	4569.4	5144.2	1990.8	310.2	101.7	325.3	50.6
74°	4112.3	4698.3	1962.7	291.5	86.7	258.4	38.0
74.5°	3664.9	4246.5	1937.8	273.7	76.6	193.3	29.0
75°	3479.8	3856.1	1916.5	256.8	72.0	148.1	22.3
75.5°	3454.5	3533.4	1899.0	239.9	68.3	103.6	20.0
76°	3548.3	3301.8	1889.3	222.7	64.5	59.1	18.6
76.5°	3553.9	3185.2	1890.9	203.8	60.2	14.6	17.1
77°	3266.0	3251.9	1899.2	184.9	52.5	6.4	15.7
77.5°	2561.0	3399.7	1925.3	165.9	44.0	5.4	14.1
78°	1692.6	3471.5	1972.8	147.0	37.6	5.4	12.7
78.5°	1412.5	3242.1	2039.3	128.0	30.1	5.7	11.6
79°	1131.3	2695.3	2114.3	110.9	23.6	6.1	10.6
79.5°	849.6	2006.6	2177.2	96.4	18.7	6.6	9.7
80°	569.0	1644.3	2209.7	85.8	15.4	7.1	9.0
80.5°	294.7	1302.7	2209.6	76.7	12.9	7.5	8.3
81°	290.7	961.1	2179.1	68.8	10.8	7.8	7.7
81.5°	300.8	619.4	2125.4	61.9	8.5	7.9	7.3
82°	312.4	277.6	2041.4	55.3	6.6	7.9	6.9
82.5°	320.2	252.6	1922.6	49.3	4.9	7.9	6.5
83°	313.3	237.9	1772.8	43.9	4.2	7.9	6.3
83.5°	282.9	234.1	1572.4	38.8	4.1	7.9	6.2
84°	250.2	238.7	1364.5	34.4	4.0	7.8	6.0
84.5°	230.6	237.6	1161.2	30.3	3.8	7.7	6.0
85°	217.1	234.0	980.9	26.7	3.7	7.5	5.9
85.5°	208.8	216.3	825.5	23.4	3.7	7.3	5.8
86°	202.0	196.7	699.8	20.5	3.5	7.0	5.8
86.5°	191.9	177.3	620.7	17.8	3.4	6.7	5.8
87°	186.4	157.8	541.7	15.3	3.4	6.4	5.8
87.5°	188.0	138.3	462.7	12.8	3.3	6.0	5.8
88°	189.9	129.0	383.6	10.6	3.2	5.7	5.8
88.5°	189.5	119.0	305.1	8.6	3.1	5.4	5.9
89°	187.3	113.3	276.9	7.2	3.1	5.0	6.0
89.5°	183.5	110.7	253.6	5.7	3.1	4.8	6.1

REPORT NUMBER: P1197122

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	177.2	110.4	230.1	5.0	3.1	4.5	6.2
90.5°	167.0	111.7	209.2	4.8	3.1	4.4	6.3
91°	152.1	113.1	193.1	4.6	3.1	4.4	6.5
91.5°	132.4	113.5	178.7	4.5	3.1	4.3	6.6
92°	110.6	111.5	165.9	4.4	3.1	4.3	6.7
92.5°	92.1	105.7	153.3	4.2	3.1	4.3	6.9
93°	78.1	97.0	135.6	4.1	3.1	4.3	7.0
93.5°	66.8	88.0	101.0	4.1	3.2	4.3	7.2
94°	57.4	81.9	77.0	4.0	3.2	4.4	7.3
94.5°	49.9	77.0	46.5	3.9	3.3	4.5	7.5
95°	45.4	71.6	33.1	3.8	3.4	4.6	7.7
95.5°	43.7	64.4	25.1	3.7	3.5	4.7	7.9
96°	43.2	55.2	19.6	3.7	3.5	4.9	8.1
96.5°	42.3	45.5	17.0	3.6	3.6	5.0	8.3
97°	39.7	36.8	15.7	3.6	3.7	5.2	8.5
97.5°	36.0	28.6	14.6	3.6	3.8	5.3	8.7
98°	30.3	18.3	13.3	3.5	4.0	5.4	8.9
98.5°	23.2	7.3	12.2	3.5	4.1	5.6	9.0
99°	13.0	3.9	11.0	3.5	4.2	5.8	9.2
99.5°	5.3	2.8	9.8	3.5	4.4	5.9	9.4
100°	3.8	2.2	8.9	3.5	4.5	6.1	9.5
100.5°	3.0	2.0	7.9	3.5	4.7	6.2	9.7
101°	2.6	1.8	7.0	3.5	4.8	6.4	9.9
101.5°	2.1	1.7	6.3	3.5	5.0	6.6	10.1
102°	2.0	1.6	5.7	3.5	5.1	6.8	10.3
102.5°	1.9	1.6	5.1	3.5	5.3	6.9	10.5
103°	1.9	1.5	4.6	3.6	5.4	7.1	10.7
103.5°	1.9	1.5	4.2	3.6	5.6	7.3	10.9
104°	1.8	1.4	3.9	3.6	5.7	7.4	11.0
104.5°	1.8	1.4	3.5	3.7	5.9	7.6	11.2
105°	1.7	1.4	3.3	3.8	6.0	7.8	11.4
105.5°	1.6	1.4	3.0	3.9	6.2	8.0	11.5
106°	1.5	1.4	2.9	3.9	6.4	8.1	11.7
106.5°	1.5	1.3	2.7	4.0	6.5	8.3	11.8
107°	1.4	1.3	2.5	4.1	6.7	8.5	12.0
107.5°	1.4	1.3	2.3	4.2	6.8	8.7	12.1
108°	1.3	1.3	2.1	4.3	7.0	8.8	12.3
108.5°	1.3	1.3	2.0	4.4	7.1	9.0	12.4
109°	1.3	1.3	1.9	4.5	7.3	9.1	12.6
109.5°	1.2	1.3	1.9	4.6	7.5	9.3	12.7
110°	1.2	1.3	1.9	4.7	7.6	9.5	12.8
110.5°	1.2	1.2	1.9	4.8	7.8	9.6	12.9
111°	1.1	1.2	1.9	4.9	7.9	9.8	13.0
111.5°	1.1	1.2	1.9	5.0	8.1	10.0	13.2
112°	1.1	1.2	2.0	5.1	8.3	10.2	13.3

REPORT NUMBER: P1197122

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	1.1	1.2	2.0	5.2	8.4	10.3	13.4
113°	1.1	1.2	2.0	5.2	8.6	10.5	13.5
113.5°	1.1	1.2	2.1	5.3	8.8	10.7	13.7
114°	1.1	1.2	2.2	5.4	8.9	10.8	13.8
114.5°	1.1	1.2	2.2	5.5	9.1	11.0	13.9
115°	1.1	1.2	2.3	5.6	9.2	11.1	14.0
115.5°	1.2	1.2	2.4	5.6	9.3	11.3	14.1
116°	1.2	1.2	2.5	5.7	9.5	11.4	14.2
116.5°	1.2	1.3	2.5	5.8	9.6	11.6	14.3
117°	1.2	1.3	2.6	5.9	9.8	11.7	14.3
117.5°	1.2	1.3	2.7	6.0	9.9	11.9	14.4
118°	1.3	1.4	2.8	6.0	10.0	12.0	14.5
118.5°	1.3	1.4	2.9	6.1	10.1	12.1	14.6
119°	1.3	1.5	3.0	6.2	10.3	12.2	14.7
119.5°	1.4	1.5	3.1	6.3	10.4	12.3	14.8
120°	1.4	1.6	3.1	6.4	10.5	12.4	14.9
120.5°	1.4	1.7	3.2	6.5	10.6	12.5	14.9
121°	1.5	1.7	3.3	6.6	10.7	12.6	15.0
121.5°	1.5	1.8	3.4	6.7	10.9	12.8	15.1
122°	1.6	1.8	3.5	6.7	11.0	12.9	15.1
122.5°	1.6	1.9	3.6	6.8	11.1	13.0	15.1
123°	1.6	2.0	3.7	6.9	11.2	13.1	15.1
123.5°	1.7	2.0	3.8	7.0	11.3	13.2	15.2
124°	1.7	2.1	3.9	7.1	11.4	13.2	15.2
124.5°	1.8	2.1	4.0	7.2	11.5	13.3	15.2
125°	1.8	2.2	4.1	7.3	11.6	13.4	15.2
125.5°	1.8	2.3	4.2	7.4	11.7	13.5	15.3
126°	1.9	2.3	4.3	7.5	11.8	13.5	15.3
126.5°	2.0	2.4	4.4	7.6	11.8	13.6	15.3
127°	2.0	2.5	4.5	7.7	11.9	13.7	15.3
127.5°	2.1	2.6	4.6	7.8	12.0	13.8	15.3
128°	2.1	2.7	4.7	7.9	12.1	13.9	15.3
128.5°	2.2	2.8	4.8	8.0	12.1	13.9	15.4
129°	2.2	2.8	4.9	8.1	12.2	14.0	15.4
129.5°	2.3	2.9	5.0	8.2	12.3	14.1	15.4
130°	2.4	3.0	5.1	8.3	12.4	14.2	15.5
130.5°	2.4	3.1	5.2	8.4	12.4	14.3	15.5
131°	2.5	3.2	5.3	8.5	12.5	14.4	15.5
131.5°	2.6	3.3	5.4	8.6	12.6	14.4	15.6
132°	2.6	3.4	5.5	8.7	12.6	14.5	15.6
132.5°	2.7	3.4	5.6	8.8	12.7	14.6	15.7
133°	2.8	3.5	5.7	8.9	12.8	14.7	15.7
133.5°	2.8	3.6	5.8	9.0	12.8	14.8	15.8
134°	2.9	3.7	5.9	9.1	12.9	14.8	15.8
134.5°	3.0	3.8	6.0	9.2	12.9	14.9	15.9

REPORT NUMBER: P1197122

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	3.0	3.9	6.1	9.3	13.0	15.0	15.9
135.5°	3.1	4.0	6.2	9.4	13.1	15.1	16.0
136°	3.2	4.1	6.3	9.5	13.1	15.1	16.0
136.5°	3.3	4.2	6.4	9.6	13.2	15.2	16.0
137°	3.4	4.3	6.5	9.7	13.2	15.2	16.1
137.5°	3.5	4.4	6.6	9.8	13.3	15.3	16.2
138°	3.5	4.5	6.7	9.9	13.3	15.3	16.3
138.5°	3.6	4.6	6.8	10.0	13.4	15.3	16.3
139°	3.7	4.7	7.0	10.1	13.4	15.4	16.4
139.5°	3.8	4.8	7.1	10.2	13.5	15.4	16.4
140°	3.9	4.9	7.2	10.3	13.5	15.4	16.5
140.5°	4.0	5.0	7.3	10.3	13.6	15.4	16.5
141°	4.1	5.2	7.4	10.4	13.6	15.4	16.5
141.5°	4.2	5.3	7.5	10.5	13.7	15.5	16.5
142°	4.3	5.4	7.6	10.6	13.7	15.5	16.5
142.5°	4.4	5.5	7.7	10.7	13.8	15.5	16.5
143°	4.5	5.7	7.8	10.8	13.8	15.5	16.5
143.5°	4.7	5.8	7.9	10.9	13.8	15.5	16.5
144°	4.8	5.9	8.0	10.9	13.9	15.5	16.5
144.5°	4.9	6.1	8.1	11.0	13.9	15.5	16.5
145°	5.0	6.2	8.3	11.1	13.9	15.5	16.4
145.5°	5.1	6.3	8.4	11.2	14.0	15.5	16.4
146°	5.2	6.4	8.5	11.3	14.0	15.5	16.4
146.5°	5.3	6.5	8.6	11.4	14.1	15.5	16.4
147°	5.4	6.6	8.7	11.4	14.1	15.5	16.4
147.5°	5.5	6.7	8.8	11.5	14.2	15.5	16.3
148°	5.6	6.9	8.9	11.6	14.2	15.5	16.3
148.5°	5.7	7.0	9.0	11.7	14.2	15.5	16.3
149°	5.8	7.1	9.1	11.8	14.3	15.5	16.3
149.5°	5.9	7.2	9.2	11.8	14.3	15.5	16.3
150°	6.0	7.3	9.3	11.9	14.4	15.6	16.3
150.5°	6.1	7.4	9.4	12.0	14.4	15.6	16.3
151°	6.2	7.5	9.5	12.1	14.5	15.6	16.2
151.5°	6.4	7.6	9.6	12.2	14.5	15.6	16.2
152°	6.5	7.7	9.7	12.3	14.6	15.7	16.2
152.5°	6.6	7.8	9.8	12.4	14.6	15.7	16.2
153°	6.7	7.9	9.9	12.5	14.7	15.7	16.2
153.5°	6.8	8.0	10.0	12.5	14.7	15.8	16.1
154°	6.9	8.1	10.1	12.6	14.8	15.8	16.1
154.5°	7.0	8.3	10.3	12.7	14.9	15.8	16.1
155°	7.1	8.4	10.4	12.8	14.9	15.9	16.1
155.5°	7.2	8.5	10.5	12.9	15.0	15.9	16.1
156°	7.3	8.6	10.6	13.0	15.0	15.9	16.1
156.5°	7.4	8.7	10.7	13.0	15.1	15.9	16.0
157°	7.5	8.8	10.8	13.1	15.1	15.9	16.0

REPORT NUMBER: P1197122

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	7.7	8.9	10.9	13.2	15.1	15.9	16.0
158°	7.8	9.0	11.0	13.3	15.2	15.9	16.0
158.5°	7.9	9.1	11.1	13.3	15.2	15.9	16.0
159°	8.0	9.3	11.2	13.4	15.2	15.9	16.0
159.5°	8.1	9.4	11.3	13.5	15.3	15.9	16.0
160°	8.3	9.5	11.4	13.5	15.3	15.9	16.0
160.5°	8.4	9.6	11.5	13.6	15.3	15.9	16.0
161°	8.5	9.7	11.6	13.7	15.4	16.0	16.0
161.5°	8.6	9.8	11.7	13.7	15.4	16.0	15.9
162°	8.8	10.0	11.8	13.8	15.4	16.0	15.9
162.5°	8.9	10.1	11.9	13.8	15.4	16.0	15.9
163°	9.0	10.2	12.0	13.9	15.5	16.0	15.8
163.5°	9.1	10.3	12.1	14.0	15.5	16.0	15.8
164°	9.3	10.4	12.2	14.0	15.5	16.0	15.7
164.5°	9.4	10.6	12.4	14.1	15.5	15.9	15.7
165°	9.5	10.7	12.5	14.2	15.6	15.9	15.6
165.5°	9.7	10.8	12.6	14.2	15.6	15.9	15.6
166°	9.8	11.0	12.7	14.3	15.6	15.9	15.6
166.5°	10.0	11.1	12.8	14.4	15.6	15.9	15.6
167°	10.1	11.2	12.9	14.4	15.7	15.9	15.6
167.5°	10.3	11.4	13.0	14.5	15.7	15.9	15.5
168°	10.4	11.5	13.1	14.6	15.7	15.9	15.5
168.5°	10.6	11.7	13.2	14.6	15.7	15.9	15.5
169°	10.8	11.8	13.3	14.7	15.7	15.9	15.4
169.5°	10.9	11.9	13.4	14.7	15.7	15.9	15.4
170°	11.1	12.1	13.5	14.8	15.7	15.9	15.3
170.5°	11.3	12.2	13.6	14.9	15.7	15.9	15.3
171°	11.4	12.3	13.7	14.9	15.7	15.9	15.2
171.5°	11.5	12.4	13.8	14.9	15.7	15.9	15.2
172°	11.7	12.5	13.9	14.9	15.7	15.9	15.1
172.5°	11.8	12.6	13.9	15.0	15.7	15.8	15.0
173°	11.9	12.8	14.0	15.0	15.6	15.8	14.9
173.5°	12.0	12.9	14.1	15.0	15.6	15.7	14.8
174°	12.2	13.0	14.2	15.0	15.6	15.7	14.8
174.5°	12.3	13.1	14.3	15.1	15.6	15.7	14.7
175°	12.4	13.2	14.3	15.1	15.6	15.7	14.6
175.5°	12.5	13.3	14.4	15.2	15.6	15.6	14.5
176°	12.7	13.5	14.5	15.2	15.6	15.6	14.4
176.5°	12.8	13.6	14.6	15.2	15.6	15.5	14.3
177°	12.9	13.7	14.6	15.2	15.5	15.5	14.2
177.5°	13.0	13.8	14.7	15.2	15.5	15.4	14.1
178°	13.2	13.9	14.8	15.3	15.5	15.4	14.0
178.5°	13.3	14.0	14.9	15.3	15.5	15.3	13.9
179°	13.4	14.1	14.9	15.3	15.5	15.3	13.8
179.5°	13.5	14.2	15.0	15.3	15.5	15.2	13.7



REPORT NUMBER: P1197122
CATALOG NUMBER: AWPf150S-BZ-BZ-LOW-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	13.6	13.6	13.6	13.6	13.6	13.6	13.6

(END OF REPORT)