

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: P1197140

Luminaire Tested: AWPf150S-BZ-BZ-LOW-5000K-POSITION 45

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197140
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 45
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 5000K
Ballast/Driver: -

Summary

Lumens per Lamp: 18720 (1 lamp)
Luminaire Lumens: 14111.6 lumens
Efficiency: 75.4%
Efficacy: 141.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.4' x L: 0.56' x H: 0.69')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U5 - G5

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

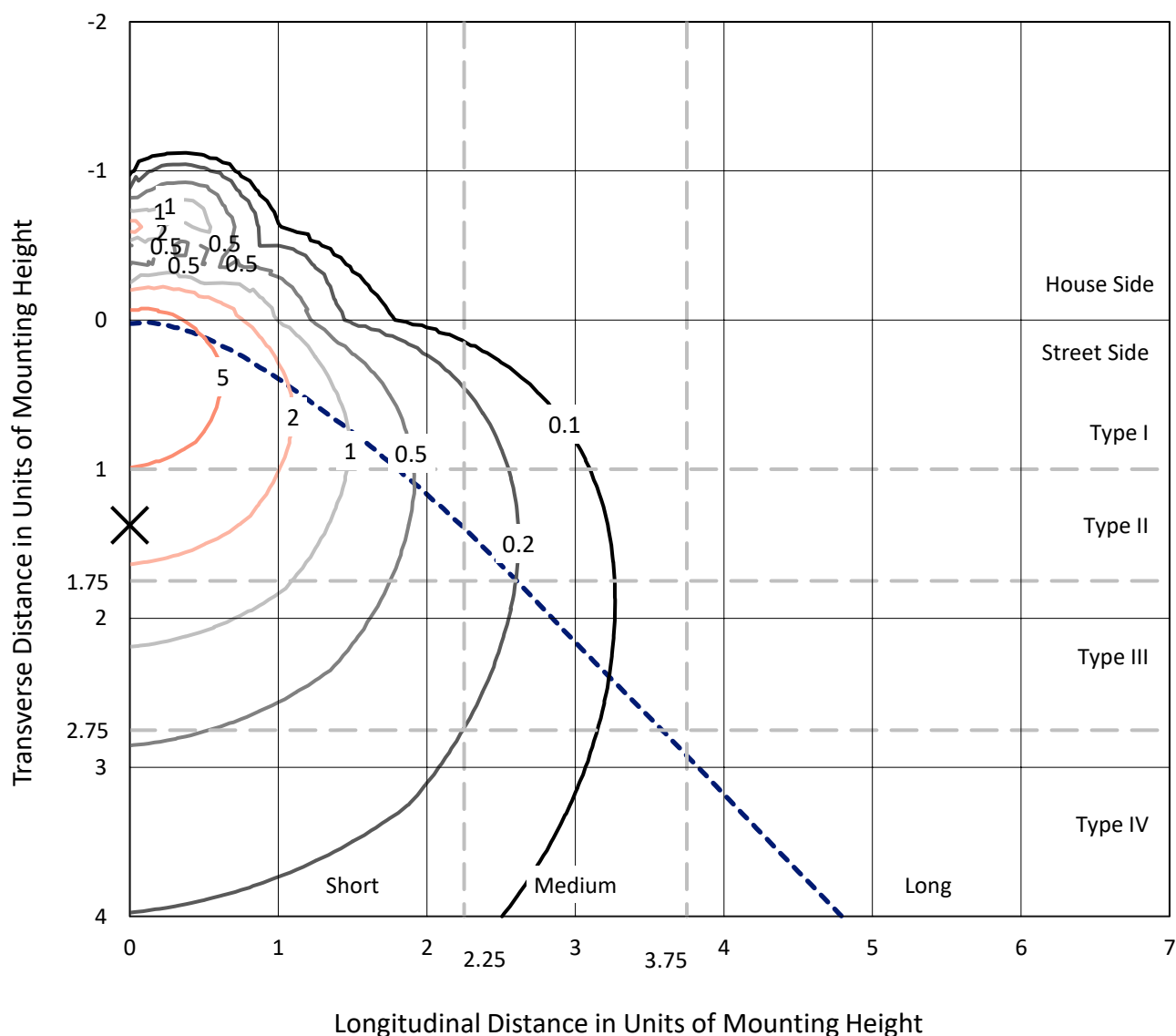
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

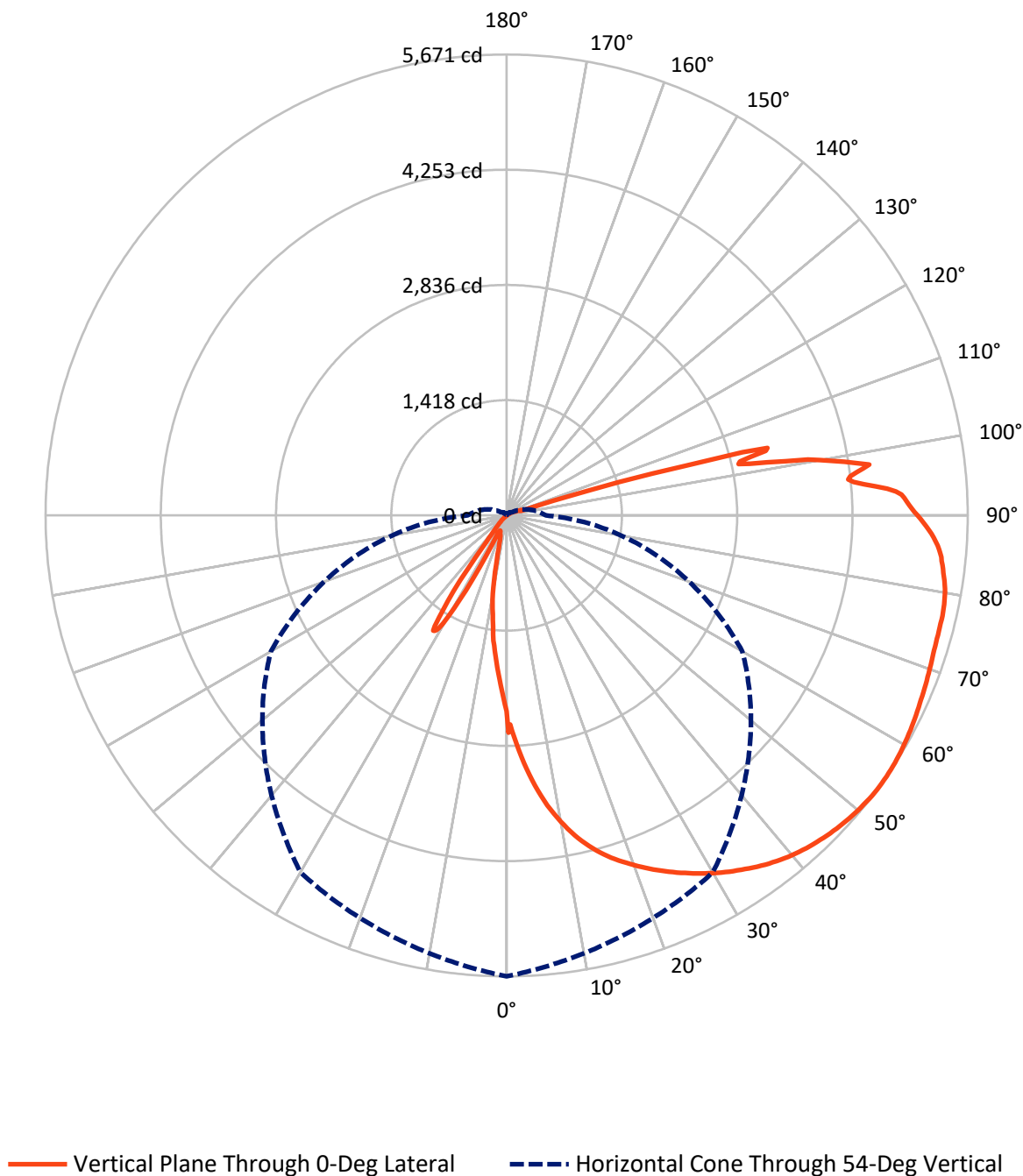


Based on 20 foot mounting height. Maximum calculated value = 9.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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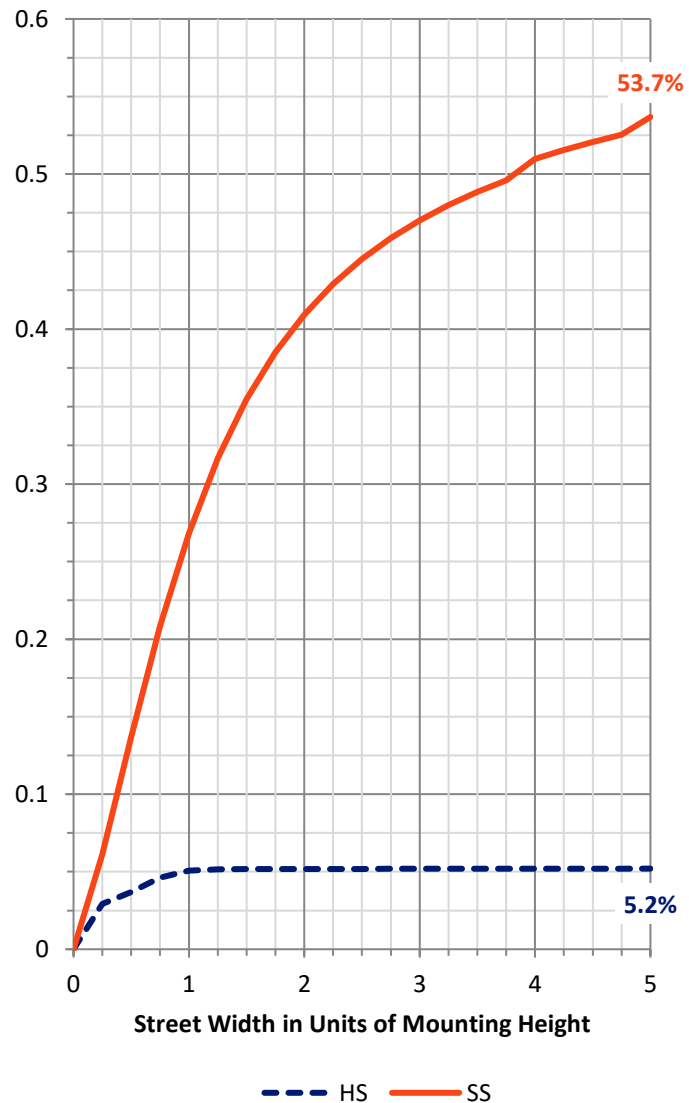
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	981.0	35.6	1016.6
	% Lamp	5.2	0.2	5.4
Street Side	Lumens	11269.9	1825.2	13095.0
	% Lamp	60.2	9.7	70.0
Total	Lumens	12250.9	1860.8	14111.6
	% Lamp	65.4	9.9	75.4

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	252.2	1.8	1.3
10°-20°	701.0	5.0	3.7
20°-30°	1088.8	7.7	5.8
30°-40°	1515.2	10.7	8.1
40°-50°	1744.3	12.4	9.3
50°-60°	1764.6	12.5	9.4
60°-70°	1806.0	12.8	9.6
70°-80°	1761.8	12.5	9.4
80°-90°	1617.0	11.5	8.6
90°-100°	1349.2	9.6	7.2
100°-110°	459.4	3.3	2.5
110°-120°	27.1	0.2	0.1
120°-130°	7.0	0.0	0.0
130°-140°	5.8	0.0	0.0
140°-150°	5.0	0.0	0.0
150°-160°	3.9	0.0	0.0
160°-170°	2.5	0.0	0.0
170°-180°	0.9	0.0	0.0
0°-90°	12250.9	86.8	65.4
0°-180°	14111.6	100.0	75.4

Coefficient of Utilization



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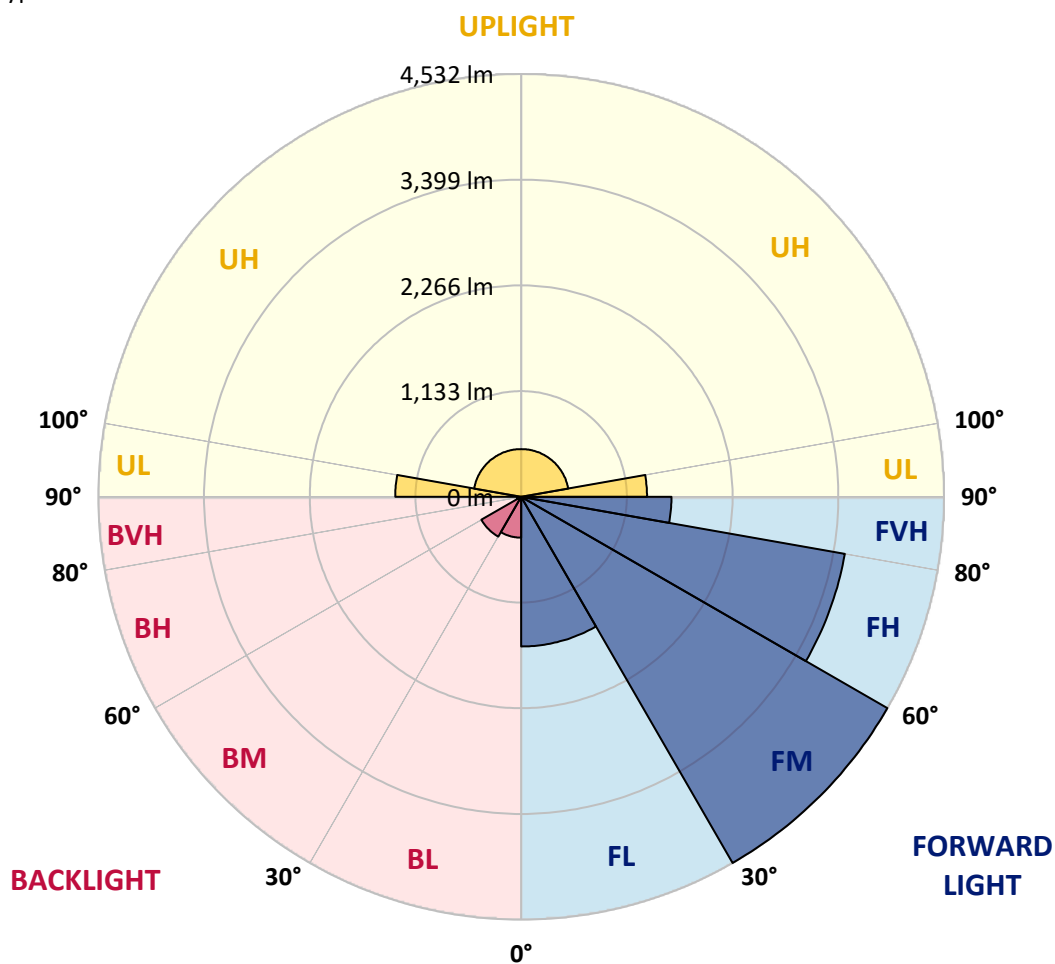
CATALOG NUMBER: AWP150S-BZ-BZ-LOW-5000K-POSITION 45

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1604.2	8.6			
FM	(30°-60°)	4532.2	24.2			
FH	(60°-80°)	3522.7	18.8			G2/5000
FVH	(80°-90°)	1610.8	8.6			G5
BL	(0°-30°)	437.7	2.3	B1/500		
BM	(30°-60°)	492.0	2.6	B1/1000		
BH	(60°-80°)	45.1	0.2	B0/110		G0/110
BVH	(80°-90°)	6.2	0.0			G0/10
UL	(90°-100°)	1349.2	7.2		U5	
UH	(100°-180°)	511.6	2.7		U4/1000	
Trapped Light		4608.4	24.6			

BUG Rating: B1-U5-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	2673.4	2673.4	2673.4	2673.4	2673.4	2673.4	2673.4
0.5°	2572.4	2679.1	2761.1	2778.2	2724.0	2613.6	2406.7
1°	2655.1	2750.4	2800.6	2777.8	2683.8	2540.6	2326.0
1.5°	2737.6	2818.8	2839.7	2775.6	2643.3	2467.1	2245.2
2°	2816.6	2886.0	2878.9	2774.6	2599.5	2400.2	2165.2
2.5°	2895.0	2954.2	2917.7	2773.6	2557.3	2327.6	2088.5
3°	2974.3	3019.6	2953.5	2770.9	2514.2	2256.7	2016.0
3.5°	3052.1	3084.2	2989.1	2766.6	2470.1	2187.6	1946.9
4°	3123.9	3150.5	3026.3	2763.3	2426.3	2122.8	1877.8
4.5°	3199.7	3213.2	3061.0	2759.6	2383.0	2055.5	1808.8
5°	3269.6	3272.5	3093.4	2754.8	2338.4	1982.0	1739.8
5.5°	3341.6	3332.3	3127.8	2750.0	2295.3	1922.8	1670.8
6°	3410.3	3390.8	3160.5	2744.3	2250.6	1863.9	1607.6
6.5°	3474.9	3445.1	3192.7	2737.3	2207.4	1804.9	1550.0
7°	3537.4	3500.8	3223.9	2731.2	2162.7	1745.7	1472.7
7.5°	3600.2	3552.4	3255.0	2724.5	2119.9	1686.9	1377.1
8°	3660.0	3602.3	3282.9	2716.7	2075.9	1630.7	1294.2
8.5°	3716.2	3651.4	3311.7	2708.6	2033.2	1577.4	1221.8
9°	3771.4	3698.9	3338.6	2700.4	1989.8	1525.5	1160.1
9.5°	3823.5	3745.1	3365.9	2691.2	1944.8	1474.1	1103.6
10°	3873.4	3789.6	3390.8	2682.0	1901.7	1405.3	1044.0
10.5°	3926.4	3832.0	3416.5	2671.8	1858.2	1324.0	976.7
11°	3975.4	3873.9	3440.9	2661.4	1814.3	1250.6	896.4
11.5°	4022.6	3915.2	3464.0	2650.8	1773.0	1186.4	801.3
12°	4067.5	3955.1	3485.9	2639.4	1731.8	1131.8	706.8
12.5°	4110.8	3991.5	3508.3	2627.3	1690.0	1079.9	620.6
13°	4151.3	4028.5	3529.7	2614.1	1649.3	1027.1	548.2
13.5°	4191.6	4063.0	3549.8	2600.9	1611.1	970.8	487.1
14°	4230.6	4096.6	3568.6	2586.8	1570.9	904.8	437.8
14.5°	4267.4	4129.1	3587.2	2572.4	1531.8	826.2	394.2
15°	4302.5	4159.6	3604.8	2557.6	1494.1	743.4	358.1
15.5°	4338.6	4189.7	3622.6	2541.7	1455.8	661.4	327.6
16°	4372.3	4219.2	3638.7	2526.0	1418.6	586.2	304.1
16.5°	4402.7	4246.7	3655.0	2511.2	1382.3	519.5	285.4
17°	4435.0	4273.4	3669.8	2494.6	1347.0	465.4	272.2
17.5°	4465.9	4298.9	3683.7	2477.6	1306.9	421.2	262.5
18°	4492.6	4323.2	3697.1	2461.5	1255.5	381.5	255.8
18.5°	4521.4	4346.4	3709.1	2443.8	1201.9	349.0	251.7
19°	4550.5	4365.7	3720.8	2423.7	1152.8	321.5	249.4
19.5°	4579.0	4384.9	3732.1	2404.6	1106.9	298.2	247.6
20°	4605.9	4404.1	3742.8	2385.5	1062.2	280.0	243.5
20.5°	4634.1	4423.3	3752.2	2366.8	1022.2	265.8	235.8
21°	4661.3	4442.5	3761.5	2347.0	984.7	256.1	225.3
21.5°	4687.9	4461.9	3770.2	2327.8	947.3	249.4	215.5
22°	4714.9	4478.3	3778.3	2307.4	907.3	246.0	211.7

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CATALOG NUMBER: AWP150S-BZ-BZ-LOW-5000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	4741.1	4497.6	3785.7	2286.1	865.7	245.4	208.1
23°	4767.6	4516.4	3792.9	2266.0	820.6	247.3	204.5
23.5°	4793.6	4534.1	3799.0	2244.1	771.4	250.7	201.0
24°	4818.6	4552.5	3804.6	2222.4	720.6	255.5	207.8
24.5°	4842.2	4570.4	3809.0	2200.2	665.0	261.5	217.0
25°	4867.2	4587.9	3813.4	2177.9	611.0	268.7	226.0
25.5°	4891.6	4606.0	3817.0	2154.7	561.6	274.0	230.9
26°	4915.7	4625.0	3820.4	2131.7	517.9	275.2	231.8
26.5°	4940.1	4640.6	3823.0	2108.5	480.8	273.7	246.2
27°	4965.5	4656.9	3824.8	2083.2	453.7	271.2	404.5
27.5°	4988.8	4673.0	3825.4	2060.1	435.8	264.1	565.7
28°	5013.0	4689.0	3826.6	2035.8	423.8	255.3	727.1
28.5°	5035.9	4705.8	3827.2	2007.9	411.8	248.9	888.4
29°	5058.7	4721.0	3826.4	1983.9	399.9	244.0	1049.7
29.5°	5080.9	4737.3	3825.7	1960.6	388.0	241.1	1173.3
30°	5103.4	4752.5	3823.6	1934.0	376.3	239.7	1307.6
30.5°	5126.9	4768.2	3821.7	1906.2	368.5	240.1	1438.5
31°	5147.6	4782.1	3818.8	1881.7	362.9	238.2	1539.3
31.5°	5168.5	4797.1	3816.1	1856.4	357.9	236.1	1615.5
32°	5188.5	4810.8	3812.4	1828.5	348.5	233.4	1654.0
32.5°	5209.0	4823.0	3808.4	1803.9	335.5	230.5	1676.3
33°	5229.7	4837.0	3804.2	1778.3	322.8	227.2	1680.1
33.5°	5248.9	4850.9	3800.2	1751.1	314.0	230.4	1623.2
34°	5268.4	4864.0	3795.0	1725.1	307.6	238.1	1500.7
34.5°	5288.9	4877.2	3789.4	1701.3	302.3	255.1	1392.1
35°	5308.0	4890.0	3784.0	1676.5	299.7	395.6	1276.5
35.5°	5327.0	4902.3	3778.5	1652.2	297.5	541.2	1136.6
36°	5345.4	4913.4	3772.7	1631.5	295.5	686.6	978.6
36.5°	5362.6	4926.1	3766.6	1611.8	293.7	831.9	812.1
37°	5379.8	4938.4	3760.2	1592.3	291.9	977.0	637.3
37.5°	5396.8	4949.0	3753.8	1573.6	289.5	1093.0	502.2
38°	5413.0	4960.2	3746.5	1555.0	286.4	1172.3	411.0
38.5°	5428.4	4972.3	3739.0	1531.4	283.1	1219.5	351.5
39°	5443.4	4981.4	3731.0	1502.7	279.8	1241.1	307.0
39.5°	5458.0	4990.3	3722.5	1467.2	276.5	1250.8	269.9
40°	5472.0	5000.7	3713.0	1428.3	273.4	1263.5	240.2
40.5°	5484.3	5009.2	3704.0	1389.6	270.1	1256.2	222.2
41°	5496.9	5017.7	3694.4	1353.7	266.2	1215.0	204.5
41.5°	5509.6	5026.5	3684.2	1317.1	261.5	1139.5	186.8
42°	5519.5	5034.0	3674.8	1282.8	256.4	1066.8	169.3
42.5°	5531.0	5041.7	3665.3	1250.5	251.0	993.3	151.7
43°	5541.2	5048.5	3655.3	1220.1	245.3	925.5	138.3
43.5°	5550.6	5054.3	3644.9	1189.7	239.6	861.1	123.6
44°	5561.2	5059.9	3635.2	1159.1	233.8	802.0	108.5
44.5°	5570.3	5065.1	3623.5	1130.2	227.6	745.4	95.4

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	5579.6	5070.1	3612.4	1102.3	221.7	688.5	82.1
45.5°	5587.0	5074.2	3601.0	1076.4	215.7	625.2	68.1
46°	5595.9	5077.3	3589.4	1051.6	209.5	559.7	53.7
46.5°	5603.9	5081.1	3576.4	1027.3	203.2	497.5	41.7
47°	5611.1	5082.9	3563.2	1002.5	197.3	443.3	32.4
47.5°	5618.3	5084.7	3550.0	978.2	191.4	396.2	26.6
48°	5625.2	5087.1	3536.0	953.4	185.7	353.8	24.1
48.5°	5631.3	5087.6	3521.9	927.3	175.2	314.7	22.3
49°	5637.0	5088.7	3507.4	898.1	162.1	278.2	20.4
49.5°	5643.0	5089.1	3492.9	866.3	153.0	245.0	18.4
50°	5648.2	5088.2	3478.4	832.6	145.6	211.2	16.3
50.5°	5653.0	5087.9	3462.8	793.5	136.7	177.1	14.5
51°	5657.5	5088.3	3446.8	751.5	130.1	143.0	13.0
51.5°	5661.6	5086.2	3430.9	705.3	124.5	108.9	11.3
52°	5664.8	5083.3	3414.6	656.1	116.8	74.8	9.3
52.5°	5666.8	5081.6	3398.0	608.4	103.3	47.5	8.4
53°	5669.3	5078.0	3381.7	561.6	91.9	19.9	7.6
53.5°	5670.0	5074.6	3364.9	517.4	84.7	14.6	6.9
54°	5671.2	5070.9	3347.3	481.2	80.4	13.8	6.4
54.5°	5670.4	5066.7	3330.1	452.4	77.3	13.6	5.9
55°	5670.3	5061.1	3312.5	428.3	74.6	13.3	5.6
55.5°	5669.6	5056.0	3293.5	408.0	72.3	12.9	5.5
56°	5668.1	5050.4	3274.6	392.0	70.0	12.6	5.4
56.5°	5665.4	5044.1	3255.1	378.8	67.7	12.1	5.2
57°	5663.7	5038.8	3234.7	368.9	64.5	11.5	5.2
57.5°	5659.7	5032.5	3214.5	361.1	61.8	10.4	5.1
58°	5656.4	5025.4	3194.3	355.7	59.1	9.7	5.0
58.5°	5653.1	5020.2	3174.0	351.9	56.4	9.1	4.9
59°	5649.4	5013.5	3153.7	349.2	53.3	8.6	4.9
59.5°	5644.8	5005.7	3133.4	347.2	49.6	8.1	4.8
60°	5640.6	5000.0	3113.1	344.6	45.7	7.6	4.8
60.5°	5635.8	4993.6	3091.0	341.5	43.1	7.2	4.8
61°	5630.3	4985.3	3069.1	338.9	40.9	6.9	4.9
61.5°	5625.0	4977.6	3047.5	336.1	38.8	6.5	5.0
62°	5619.1	4970.6	3024.0	333.0	36.7	6.2	5.1
62.5°	5614.0	4962.3	2999.9	330.2	34.4	5.9	5.2
63°	5608.2	4953.9	2978.5	326.0	31.8	5.6	5.4
63.5°	5602.5	4946.1	2955.1	320.9	28.8	5.4	5.5
64°	5596.9	4936.0	2932.4	315.2	25.5	5.1	5.6
64.5°	5590.9	4927.3	2910.8	308.5	22.1	4.9	5.8
65°	5584.3	4917.3	2890.2	301.3	18.6	4.7	5.9
65.5°	5579.4	4906.8	2869.4	294.1	15.4	4.6	6.1
66°	5573.3	4896.5	2849.0	287.8	12.4	4.5	6.2
66.5°	5569.1	4885.8	2829.1	280.8	9.5	4.4	6.4
67°	5563.5	4873.2	2808.7	273.8	7.2	4.3	6.5

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CATALOG NUMBER: AWP150S-BZ-BZ-LOW-5000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	5559.2	4860.3	2788.2	266.0	6.0	4.3	6.6
68°	5553.8	4848.6	2767.4	257.9	5.7	4.3	6.8
68.5°	5547.7	4834.9	2745.3	250.5	5.6	4.3	6.9
69°	5543.4	4821.7	2724.3	244.2	5.5	4.3	7.1
69.5°	5537.2	4809.0	2700.8	237.6	5.5	4.4	7.3
70°	5531.8	4795.3	2675.1	229.8	5.3	4.5	7.5
70.5°	5526.9	4782.7	2650.1	221.7	5.0	4.6	7.7
71°	5523.4	4769.8	2624.4	213.9	4.8	4.7	7.9
71.5°	5518.4	4757.3	2597.2	206.4	4.7	4.8	8.1
72°	5513.7	4746.6	2569.5	198.9	4.7	4.9	8.2
72.5°	5510.9	4735.6	2541.9	191.4	4.7	5.1	8.4
73°	5508.8	4724.7	2511.8	183.9	4.7	5.2	8.6
73.5°	5506.5	4714.3	2481.8	176.5	4.7	5.4	8.8
74°	5504.5	4705.8	2449.7	168.5	4.7	5.6	8.9
74.5°	5503.0	4697.1	2416.8	160.4	4.7	5.7	9.1
75°	5503.5	4689.5	2384.3	151.6	4.7	5.9	9.3
75.5°	5502.1	4684.1	2353.1	142.6	4.7	6.0	9.5
76°	5501.4	4679.1	2321.2	133.5	4.8	6.2	9.7
76.5°	5500.6	4674.3	2290.5	124.8	4.8	6.4	9.9
77°	5498.5	4669.9	2259.7	115.8	4.8	6.5	10.0
77.5°	5496.4	4666.1	2227.0	106.9	4.9	6.6	10.2
78°	5493.5	4661.5	2189.1	98.3	4.9	6.8	10.3
78.5°	5487.5	4657.6	2152.4	90.1	5.0	7.0	10.5
79°	5481.7	4652.1	2112.2	82.4	5.0	7.1	10.6
79.5°	5475.4	4643.9	2073.3	75.1	5.1	7.3	10.8
80°	5466.5	4635.8	2033.1	67.5	5.1	7.4	11.0
80.5°	5456.7	4627.9	1995.6	60.5	5.2	7.6	11.2
81°	5444.1	4617.2	1955.9	54.0	5.2	7.7	11.3
81.5°	5431.8	4606.5	1919.8	48.2	5.3	7.8	11.5
82°	5419.5	4596.1	1881.0	43.1	5.4	8.0	11.6
82.5°	5408.0	4583.7	1838.6	38.8	5.5	8.1	11.8
83°	5394.6	4569.4	1794.3	35.0	5.5	8.3	11.9
83.5°	5381.8	4553.6	1751.5	31.3	5.6	8.5	12.1
84°	5370.7	4540.1	1710.2	28.0	5.7	8.6	12.2
84.5°	5353.9	4529.5	1671.8	25.0	5.7	8.8	12.4
85°	5334.6	4521.2	1635.6	22.3	5.8	8.9	12.5
85.5°	5314.4	4511.1	1600.4	19.9	5.9	9.0	12.7
86°	5288.7	4502.8	1568.2	17.8	6.0	9.2	12.8
86.5°	5260.0	4495.6	1536.3	15.7	6.1	9.3	12.9
87°	5231.3	4489.8	1509.2	13.8	6.3	9.5	13.1
87.5°	5198.4	4484.1	1484.2	12.1	6.4	9.6	13.2
88°	5163.1	4479.2	1459.6	10.4	6.4	9.8	13.3
88.5°	5128.7	4474.1	1435.3	8.9	6.5	9.9	13.4
89°	5091.4	4467.0	1414.9	7.7	6.6	10.0	13.5
89.5°	5052.9	4460.3	1403.0	6.7	6.7	10.1	13.6

REPORT NUMBER: P1197140

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-5000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	5016.5	4458.7	1397.5	5.7	6.8	10.3	13.7
90.5°	4984.0	4466.9	1401.7	5.1	6.8	10.4	13.8
91°	4951.2	4489.0	1418.8	5.0	6.9	10.5	13.9
91.5°	4922.2	4526.0	1446.9	4.9	7.0	10.6	13.9
92°	4897.5	4568.9	1489.5	4.8	7.1	10.7	14.0
92.5°	4865.7	4592.8	1545.2	4.8	7.1	10.8	14.1
93°	4796.8	4596.2	1594.8	4.7	7.2	10.9	14.3
93.5°	4691.9	4558.9	1623.2	4.7	7.3	11.0	14.4
94°	4558.9	4493.0	1600.6	4.6	7.4	11.2	14.5
94.5°	4409.1	4394.7	1534.3	4.6	7.5	11.3	14.6
95°	4287.7	4285.3	1432.7	4.5	7.6	11.4	14.7
95.5°	4224.2	4175.7	1309.0	4.5	7.7	11.5	14.7
96°	4252.2	4040.2	1198.6	4.4	7.8	11.6	14.8
96.5°	4335.5	3836.8	1092.6	4.4	7.8	11.7	14.9
97°	4424.1	3587.1	975.5	4.3	7.9	11.9	14.9
97.5°	4503.0	3340.9	841.9	4.3	8.0	12.0	15.0
98°	4355.3	3089.7	709.0	4.3	8.1	12.1	15.1
98.5°	4208.4	2895.6	600.7	4.2	8.2	12.3	15.1
99°	4062.9	2778.8	526.4	4.2	8.2	12.4	15.2
99.5°	3917.7	2684.3	452.0	4.2	8.3	12.5	15.2
100°	3767.1	2667.5	377.7	4.1	8.4	12.5	15.3
100.5°	3500.4	2795.9	303.4	4.1	8.4	12.6	15.3
101°	3268.1	3028.5	231.1	4.0	8.5	12.7	15.4
101.5°	3059.4	3223.7	210.0	4.0	8.5	12.7	15.4
102°	2921.1	3192.7	215.4	4.0	8.6	12.8	15.4
102.5°	2943.8	2849.8	231.3	4.0	8.7	12.9	15.5
103°	3090.3	2215.6	224.8	4.0	8.7	13.0	15.5
103.5°	3284.7	1978.4	218.2	4.0	8.8	13.1	15.6
104°	3313.6	1750.0	210.3	3.9	8.9	13.2	15.6
104.5°	3002.1	1521.6	201.7	3.9	9.0	13.3	15.6
105°	2288.4	1292.6	165.4	3.9	9.0	13.4	15.7
105.5°	1866.6	1063.2	101.0	3.9	9.1	13.5	15.7
106°	1444.9	834.5	78.8	3.9	9.1	13.6	15.7
106.5°	1023.3	606.1	68.1	4.0	9.2	13.6	15.8
107°	601.5	377.6	57.4	4.0	9.3	13.7	15.8
107.5°	185.5	149.2	48.8	4.0	9.3	13.8	15.8
108°	177.7	146.5	41.3	4.0	9.4	13.8	15.8
108.5°	176.9	141.5	34.4	4.0	9.5	13.8	15.9
109°	183.1	129.2	28.0	4.0	9.5	13.9	15.9
109.5°	189.0	115.9	22.9	4.1	9.6	13.9	15.9
110°	194.2	103.4	18.6	4.1	9.6	14.0	15.9
110.5°	188.3	90.5	15.2	4.2	9.7	14.0	15.9
111°	166.1	81.2	12.7	4.2	9.7	14.1	16.0
111.5°	147.8	75.5	10.5	4.3	9.8	14.1	16.0
112°	138.1	72.6	8.9	4.4	9.8	14.1	16.0

REPORT NUMBER: P1197140

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-5000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	127.9	71.8	8.0	4.4	9.9	14.2	16.0
113°	116.4	72.1	7.1	4.4	9.9	14.2	16.0
113.5°	110.8	74.3	6.2	4.5	10.0	14.3	16.0
114°	109.1	78.1	5.5	4.6	10.0	14.3	16.0
114.5°	109.5	81.4	4.9	4.6	10.0	14.3	16.0
115°	109.7	83.5	4.5	4.7	10.1	14.3	16.0
115.5°	108.2	83.7	4.3	4.7	10.1	14.4	16.0
116°	107.9	80.5	4.0	4.8	10.2	14.4	16.0
116.5°	107.7	69.9	3.7	4.8	10.2	14.4	16.1
117°	107.0	56.8	3.4	4.9	10.3	14.4	16.1
117.5°	104.4	39.5	3.2	4.9	10.3	14.5	16.1
118°	99.7	22.6	3.0	5.0	10.4	14.5	16.1
118.5°	92.1	14.6	2.8	5.1	10.4	14.5	16.1
119°	81.7	12.0	2.6	5.1	10.4	14.6	16.1
119.5°	68.2	10.0	2.4	5.2	10.5	14.6	16.1
120°	49.8	8.0	2.3	5.2	10.5	14.6	16.1
120.5°	30.6	6.1	2.2	5.3	10.6	14.6	16.1
121°	17.5	4.4	2.1	5.3	10.6	14.6	16.1
121.5°	12.2	3.2	2.0	5.4	10.6	14.6	16.1
122°	9.6	2.4	1.9	5.5	10.7	14.7	16.0
122.5°	7.2	1.9	1.9	5.5	10.7	14.7	16.0
123°	5.4	1.5	1.8	5.6	10.7	14.7	16.0
123.5°	4.0	1.4	1.8	5.6	10.8	14.7	16.0
124°	3.0	1.3	1.8	5.7	10.8	14.7	16.0
124.5°	2.3	1.2	1.8	5.7	10.8	14.7	16.0
125°	1.8	1.2	1.8	5.8	10.9	14.7	16.0
125.5°	1.4	1.2	1.9	5.9	10.9	14.7	16.0
126°	1.4	1.1	1.9	5.9	10.9	14.7	16.0
126.5°	1.3	1.1	1.9	6.0	11.0	14.7	15.9
127°	1.3	1.1	2.0	6.1	11.0	14.7	15.9
127.5°	1.3	1.1	2.0	6.1	11.0	14.7	15.9
128°	1.2	1.1	2.1	6.2	11.0	14.7	15.9
128.5°	1.2	1.1	2.2	6.2	11.1	14.7	15.9
129°	1.2	1.1	2.2	6.3	11.1	14.7	15.8
129.5°	1.2	1.1	2.3	6.3	11.1	14.7	15.8
130°	1.2	1.1	2.3	6.4	11.2	14.7	15.8
130.5°	1.2	1.1	2.4	6.5	11.2	14.7	15.7
131°	1.2	1.0	2.5	6.5	11.2	14.7	15.7
131.5°	1.2	1.0	2.5	6.6	11.3	14.7	15.7
132°	1.2	1.0	2.6	6.6	11.3	14.7	15.6
132.5°	1.1	1.0	2.6	6.7	11.3	14.7	15.6
133°	1.1	1.0	2.7	6.7	11.3	14.7	15.6
133.5°	1.0	1.0	2.8	6.8	11.4	14.7	15.5
134°	1.0	1.0	2.9	6.9	11.4	14.7	15.5
134.5°	0.9	1.0	2.9	6.9	11.4	14.7	15.5

REPORT NUMBER: P1197140

CATALOG NUMBER: AWP150S-BZ-BZ-LOW-5000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	0.9	1.0	3.0	7.0	11.4	14.7	15.4
135.5°	0.9	1.0	3.1	7.0	11.5	14.7	15.4
136°	0.9	1.0	3.2	7.1	11.5	14.7	15.4
136.5°	0.9	1.0	3.2	7.2	11.5	14.6	15.4
137°	0.9	1.1	3.3	7.2	11.5	14.6	15.4
137.5°	0.9	1.1	3.4	7.3	11.5	14.6	15.4
138°	0.9	1.1	3.4	7.3	11.6	14.6	15.3
138.5°	0.9	1.1	3.5	7.4	11.6	14.6	15.3
139°	0.9	1.1	3.6	7.4	11.6	14.5	15.2
139.5°	0.9	1.2	3.7	7.5	11.6	14.5	15.2
140°	0.9	1.2	3.8	7.5	11.6	14.5	15.1
140.5°	0.9	1.2	3.8	7.6	11.6	14.5	15.1
141°	1.0	1.3	3.9	7.7	11.7	14.5	15.0
141.5°	1.0	1.3	4.0	7.7	11.7	14.4	14.9
142°	1.0	1.4	4.1	7.8	11.7	14.4	14.8
142.5°	1.0	1.4	4.1	7.8	11.7	14.4	14.8
143°	1.1	1.5	4.2	7.9	11.7	14.4	14.7
143.5°	1.1	1.5	4.3	7.9	11.7	14.3	14.6
144°	1.1	1.6	4.3	8.0	11.7	14.3	14.5
144.5°	1.2	1.6	4.4	8.0	11.7	14.2	14.5
145°	1.2	1.7	4.5	8.1	11.7	14.2	14.4
145.5°	1.2	1.7	4.6	8.1	11.7	14.2	14.3
146°	1.3	1.8	4.7	8.2	11.7	14.1	14.2
146.5°	1.3	1.8	4.7	8.2	11.7	14.1	14.1
147°	1.3	1.9	4.8	8.3	11.7	14.0	14.0
147.5°	1.4	2.0	4.9	8.3	11.7	14.0	13.9
148°	1.4	2.0	5.0	8.4	11.7	14.0	13.8
148.5°	1.5	2.1	5.0	8.4	11.7	13.9	13.8
149°	1.5	2.1	5.1	8.5	11.7	13.9	13.7
149.5°	1.5	2.2	5.2	8.5	11.7	13.9	13.6
150°	1.6	2.3	5.3	8.6	11.7	13.8	13.5
150.5°	1.6	2.4	5.3	8.6	11.7	13.8	13.4
151°	1.6	2.4	5.4	8.7	11.8	13.8	13.3
151.5°	1.7	2.5	5.5	8.7	11.8	13.7	13.2
152°	1.7	2.6	5.6	8.8	11.8	13.7	13.1
152.5°	1.7	2.7	5.6	8.8	11.8	13.7	13.0
153°	1.8	2.7	5.7	8.8	11.8	13.7	12.9
153.5°	1.8	2.8	5.8	8.9	11.8	13.7	12.8
154°	1.9	2.9	5.9	8.9	11.8	13.6	12.7
154.5°	1.9	3.0	6.0	9.0	11.8	13.6	12.5
155°	2.0	3.1	6.0	9.0	11.8	13.5	12.4
155.5°	2.0	3.2	6.1	9.0	11.8	13.5	12.3
156°	2.1	3.2	6.2	9.1	11.8	13.4	12.2
156.5°	2.1	3.3	6.3	9.1	11.7	13.4	12.1
157°	2.2	3.4	6.4	9.2	11.7	13.3	12.0

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CATALOG NUMBER: AWP150S-BZ-BZ-LOW-5000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	2.3	3.5	6.4	9.2	11.7	13.2	11.9
158°	2.3	3.6	6.5	9.3	11.7	13.2	11.8
158.5°	2.4	3.7	6.6	9.3	11.7	13.1	11.7
159°	2.5	3.8	6.7	9.3	11.7	13.1	11.5
159.5°	2.6	3.9	6.8	9.4	11.7	13.0	11.4
160°	2.7	4.0	6.8	9.4	11.7	12.9	11.3
160.5°	2.8	4.1	6.9	9.4	11.7	12.9	11.2
161°	2.9	4.2	7.0	9.5	11.7	12.8	11.1
161.5°	3.0	4.3	7.1	9.5	11.6	12.7	10.9
162°	3.1	4.4	7.1	9.5	11.6	12.7	10.8
162.5°	3.2	4.5	7.2	9.6	11.6	12.6	10.7
163°	3.3	4.6	7.3	9.6	11.6	12.5	10.5
163.5°	3.4	4.8	7.4	9.7	11.6	12.5	10.4
164°	3.5	4.9	7.4	9.7	11.6	12.4	10.2
164.5°	3.6	5.0	7.5	9.7	11.6	12.4	10.1
165°	3.7	5.2	7.6	9.8	11.6	12.3	9.9
165.5°	3.8	5.3	7.7	9.8	11.5	12.2	9.8
166°	3.9	5.4	7.7	9.8	11.5	12.2	9.7
166.5°	4.0	5.5	7.8	9.9	11.5	12.1	9.6
167°	4.1	5.6	7.9	9.9	11.5	12.1	9.5
167.5°	4.2	5.7	7.9	9.9	11.5	12.0	9.4
168°	4.2	5.8	8.0	9.9	11.5	11.9	9.2
168.5°	4.3	5.9	8.1	10.0	11.4	11.9	9.1
169°	4.4	6.0	8.2	10.0	11.4	11.8	9.0
169.5°	4.5	6.1	8.3	10.0	11.4	11.7	8.9
170°	4.6	6.3	8.3	10.1	11.4	11.7	8.7
170.5°	4.7	6.4	8.4	10.1	11.4	11.6	8.6
171°	4.8	6.5	8.5	10.1	11.3	11.5	8.5
171.5°	4.9	6.5	8.5	10.2	11.3	11.4	8.4
172°	4.9	6.7	8.6	10.2	11.2	11.3	8.2
172.5°	5.0	6.8	8.7	10.2	11.2	11.2	8.1
173°	5.1	6.9	8.8	10.2	11.2	11.2	7.9
173.5°	5.2	6.9	8.8	10.2	11.1	11.1	7.8
174°	5.3	7.0	8.9	10.2	11.1	11.0	7.7
174.5°	5.4	7.2	9.0	10.3	11.1	10.9	7.6
175°	5.4	7.2	9.0	10.3	11.0	10.9	7.4
175.5°	5.6	7.3	9.1	10.3	11.0	10.8	7.3
176°	5.6	7.4	9.2	10.3	11.0	10.7	7.2
176.5°	5.7	7.5	9.2	10.3	10.9	10.6	7.1
177°	5.8	7.6	9.3	10.4	10.9	10.6	7.0
177.5°	5.9	7.7	9.4	10.4	10.8	10.5	6.9
178°	6.0	7.8	9.4	10.4	10.8	10.4	6.8
178.5°	6.1	7.9	9.5	10.4	10.8	10.3	6.7
179°	6.2	8.0	9.5	10.4	10.7	10.2	6.6
179.5°	6.3	8.1	9.6	10.4	10.7	10.2	6.5



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CATALOG NUMBER: AWPf150S-BZ-BZ-LOW-5000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	6.4	6.4	6.4	6.4	6.4	6.4	6.4

(END OF REPORT)