

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: P1197017

Luminaire Tested: AWPf28S-BZ-LOW-3000K-POSITION 30

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197017
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: AWP28S-BZ-LOW-3000K-POSITION 30
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 3000K
Ballast/Driver: -

Summary

Lumens per Lamp: 3521 (1 lamp)
Luminaire Lumens: 2602.5 lumens
Efficiency: 73.9%
Efficacy: 123.3 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 - U2 - G3

Input Watts (W): 21.1
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

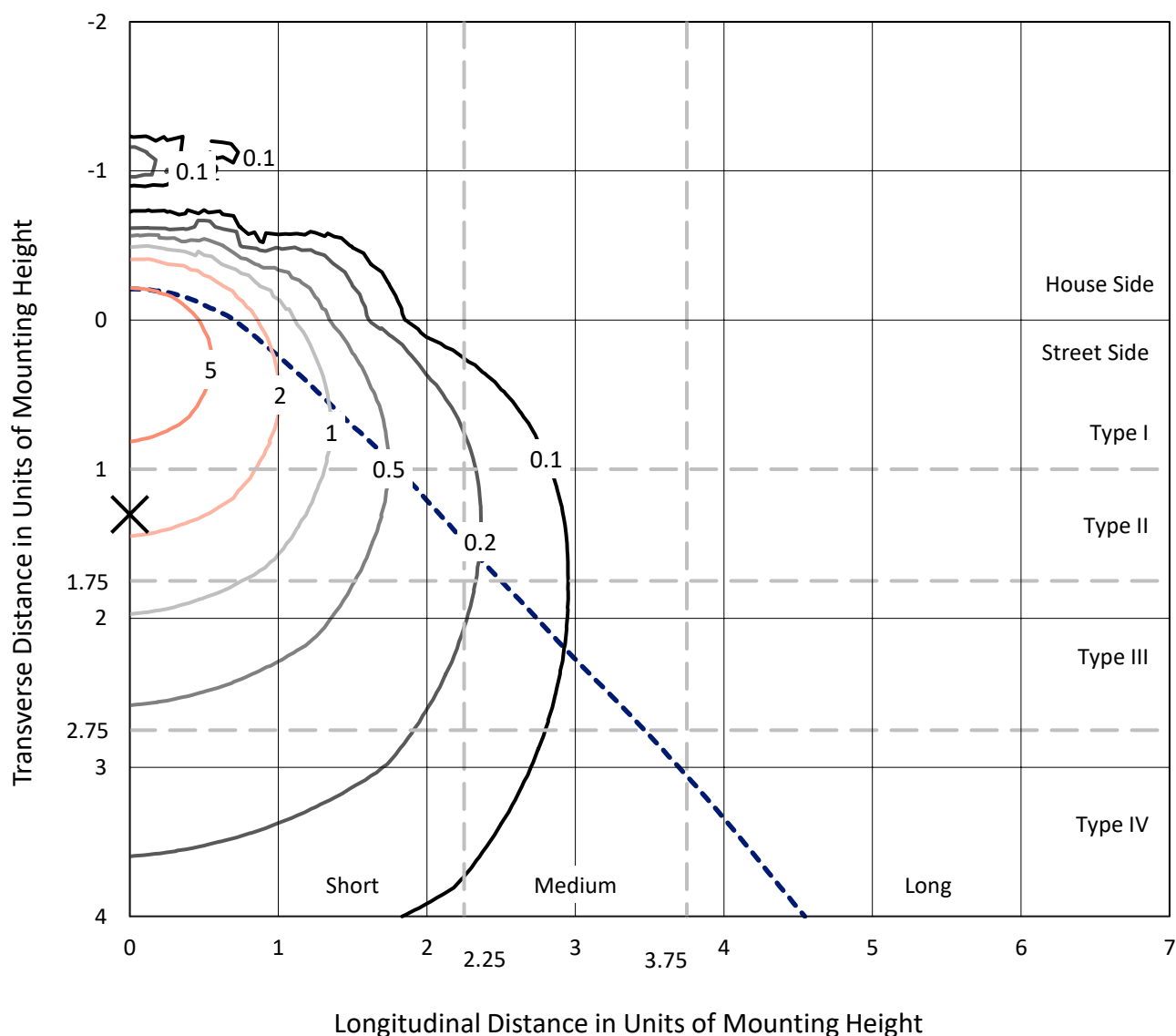
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

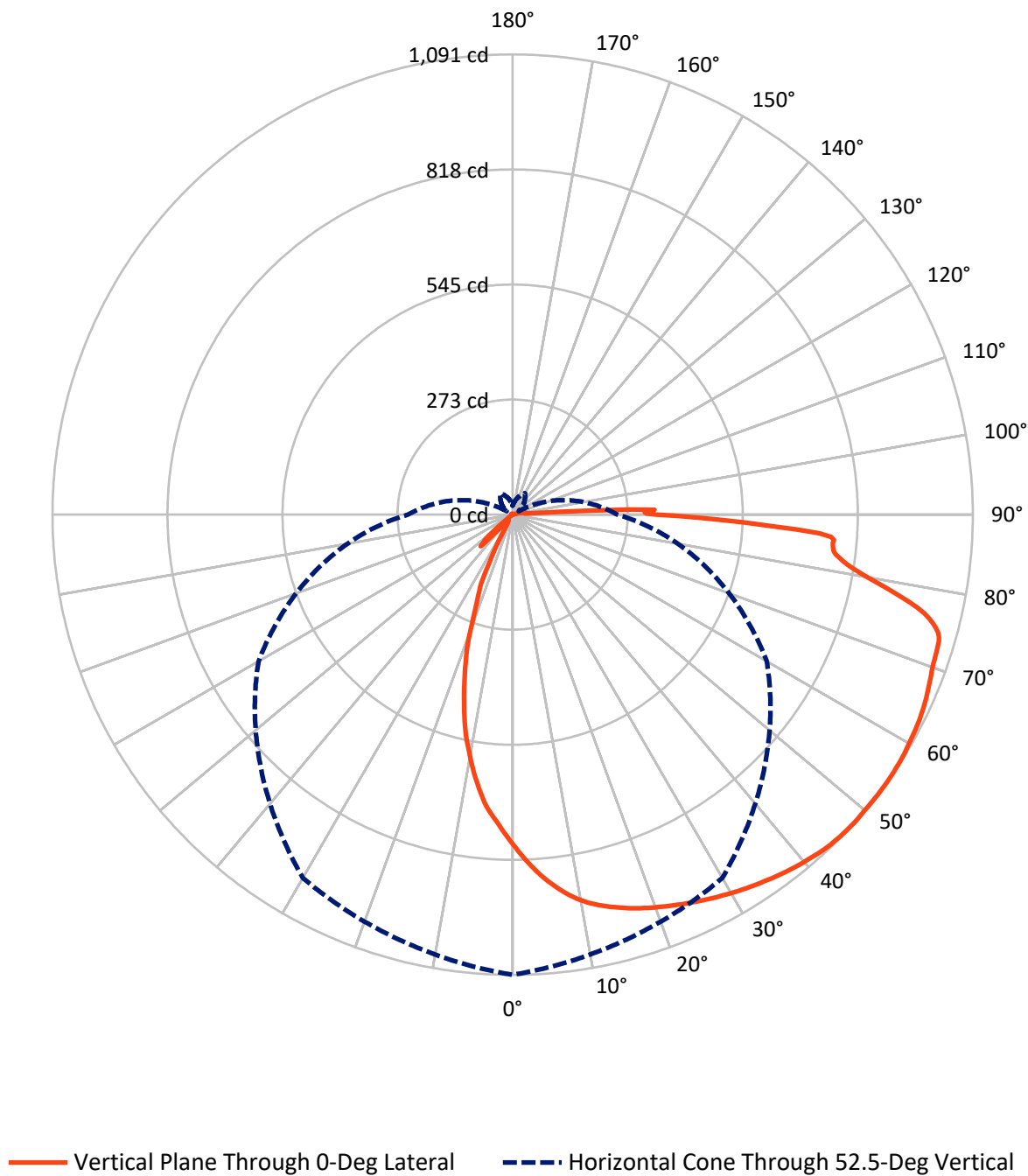


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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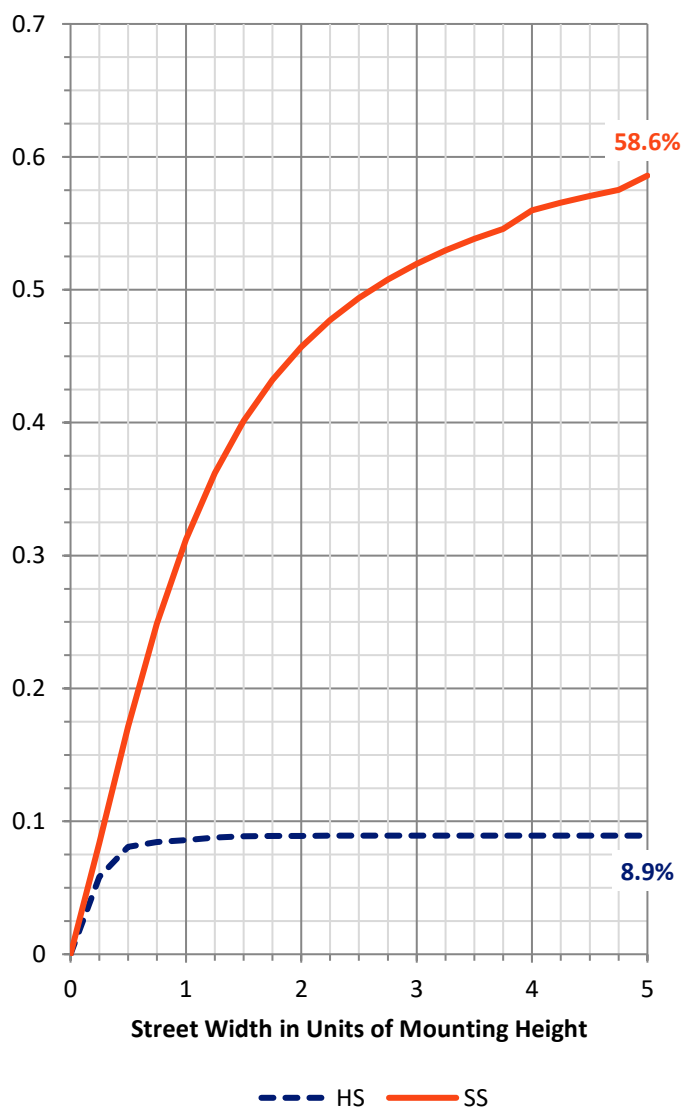
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	318.5	6.0	324.5
	% Lamp	9.0	0.2	9.2
Street Side	Lumens	2233.2	44.8	2277.9
	% Lamp	63.4	1.3	64.7
Total	Lumens	2551.7	50.8	2602.5
	% Lamp	72.5	1.4	73.9

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	74.6	2.9	2.1
10°-20°	206.4	7.9	5.9
20°-30°	289.4	11.1	8.2
30°-40°	329.8	12.7	9.4
40°-50°	357.0	13.7	10.1
50°-60°	367.5	14.1	10.4
60°-70°	350.6	13.5	10.0
70°-80°	329.7	12.7	9.4
80°-90°	246.8	9.5	7.0
90°-100°	41.8	1.6	1.2
100°-110°	3.3	0.1	0.1
110°-120°	1.0	0.0	0.0
120°-130°	1.1	0.0	0.0
130°-140°	1.1	0.0	0.0
140°-150°	1.0	0.0	0.0
150°-160°	0.8	0.0	0.0
160°-170°	0.5	0.0	0.0
170°-180°	0.2	0.0	0.0
0°-90°	2551.7	98.0	72.5
0°-180°	2602.5	100.0	73.9

Coefficient of Utilization



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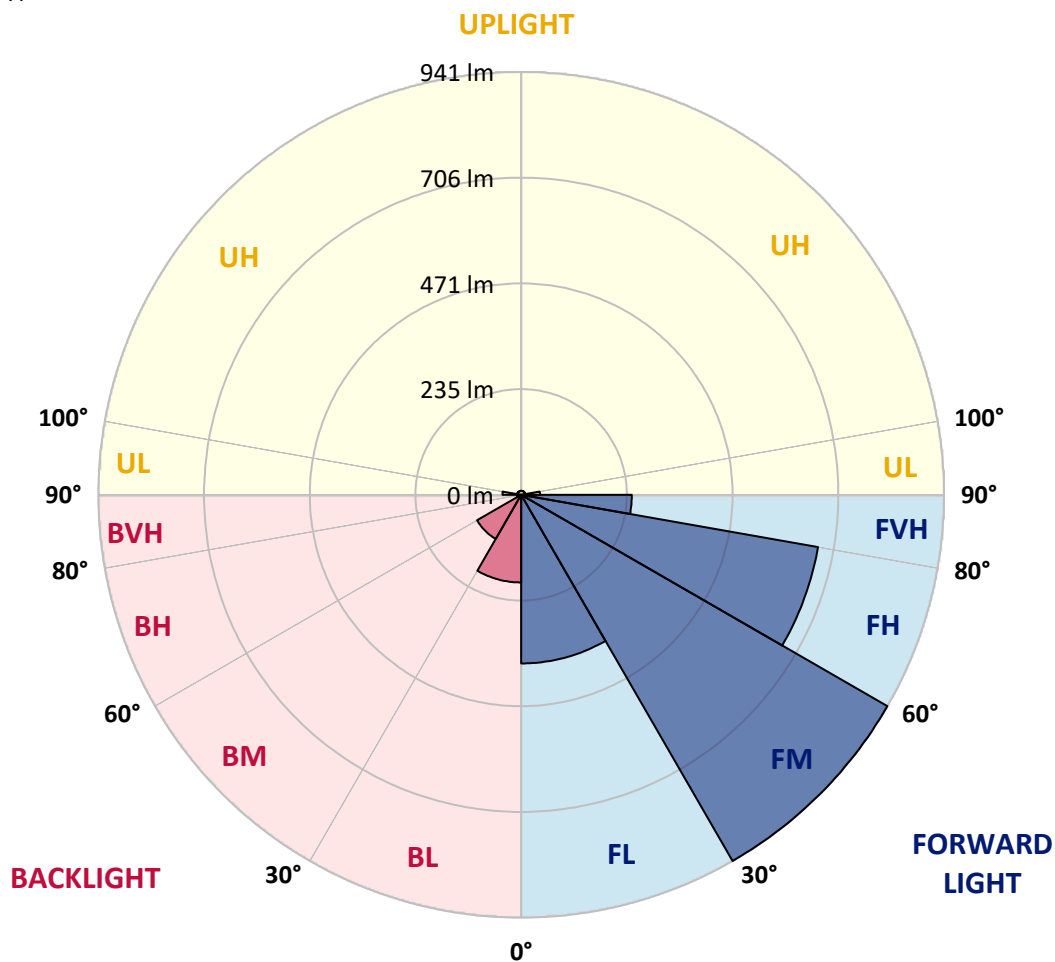
CATALOG NUMBER: AWPf28S-BZ-LOW-3000K-POSITION 30

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	375.3	10.7			
FM	(30°-60°)	941.0	26.7			
FH	(60°-80°)	670.8	19.1			G1/1800
FVH	(80°-90°)	246.1	7.0			G3/500
BL	(0°-30°)	195.1	5.5	B1/500		
BM	(30°-60°)	113.2	3.2	B0/220		
BH	(60°-80°)	9.4	0.3	B0/110		G0/110
BVH	(80°-90°)	0.7	0.0			G0/10
UL	(90°-100°)	41.8	1.2		U2/50	
UH	(100°-180°)	9.0	0.3		U1/10	
Trapped Light		918.5	26.1			

BUG Rating: B1-U2-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	789.0	789.0	789.0	789.0	789.0	789.0	789.0
0.5°	798.0	796.8	793.6	788.9	784.6	781.2	780.5
1°	807.0	804.3	798.1	788.9	780.1	773.5	771.5
1.5°	815.7	811.9	802.6	788.6	775.6	765.9	762.7
2°	824.4	819.3	806.6	788.4	771.2	758.3	753.7
2.5°	833.3	826.8	810.6	788.1	766.6	750.5	745.2
3°	841.5	833.8	814.7	787.7	761.9	742.9	736.5
3.5°	850.0	840.9	818.9	787.2	756.9	735.3	728.3
4°	857.8	847.8	822.8	786.7	752.1	728.0	720.2
4.5°	865.0	854.2	826.3	786.0	747.3	721.3	712.5
5°	872.2	860.1	830.1	785.1	742.4	714.2	705.0
5.5°	879.5	866.2	833.6	784.2	737.4	707.2	696.4
6°	886.4	872.4	837.1	783.3	732.3	699.2	686.8
6.5°	892.9	877.9	840.4	782.3	727.4	690.6	676.6
7°	899.4	883.3	843.7	781.3	722.4	681.4	665.3
7.5°	905.9	888.6	846.7	780.0	717.4	671.3	653.6
8°	911.4	893.9	849.4	778.7	712.8	660.8	641.9
8.5°	917.1	898.9	852.2	777.2	708.0	650.5	630.8
9°	922.6	903.7	855.0	775.8	702.8	640.6	618.6
9.5°	927.7	908.3	858.0	774.2	697.8	629.5	606.0
10°	932.1	912.7	860.8	772.6	692.3	618.4	594.0
10.5°	936.6	917.1	863.2	770.9	686.5	607.1	581.3
11°	940.5	920.9	865.8	769.0	680.2	596.0	568.9
11.5°	944.3	924.5	868.2	767.1	674.0	584.6	556.9
12°	948.1	928.2	870.6	765.0	667.2	573.3	545.2
12.5°	951.5	931.3	872.7	762.7	660.2	562.1	532.0
13°	954.7	934.3	874.6	760.3	652.6	551.3	518.5
13.5°	957.8	936.8	876.5	758.0	644.9	539.7	503.8
14°	961.0	939.3	878.2	755.5	637.2	527.9	489.0
14.5°	963.7	941.7	879.9	752.8	629.3	514.8	474.7
15°	966.8	944.1	881.2	750.2	621.4	502.0	459.5
15.5°	969.8	946.5	882.5	747.3	613.2	488.6	445.1
16°	972.7	949.0	883.6	744.3	604.6	474.9	429.9
16.5°	975.4	950.9	884.6	741.1	596.4	460.8	414.5
17°	978.1	953.0	885.5	737.5	588.1	446.8	400.3
17.5°	980.5	955.0	886.2	734.1	579.3	432.6	386.0
18°	983.1	956.9	886.6	730.4	570.6	418.6	372.1
18.5°	986.0	958.5	887.1	726.6	561.3	404.7	357.3
19°	988.3	960.2	887.2	722.9	552.2	390.9	342.4
19.5°	990.3	962.0	887.2	719.1	542.9	377.8	327.8
20°	992.6	963.5	887.4	715.2	534.0	364.8	309.8
20.5°	995.0	965.0	887.4	711.4	525.4	351.6	290.5
21°	997.3	966.6	887.2	707.0	516.8	338.5	273.0
21.5°	999.6	968.2	886.8	702.5	507.5	324.4	257.6
22°	1001.8	969.3	886.3	697.9	498.1	310.6	243.5

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CATALOG NUMBER: AWP28S-BZ-LOW-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	1004.3	970.6	885.7	693.1	488.0	293.8	230.7
23°	1006.8	971.8	885.0	688.1	477.2	276.7	219.3
23.5°	1009.0	973.0	883.8	683.2	465.9	260.5	209.1
24°	1011.2	974.4	882.7	678.1	455.4	246.2	199.0
24.5°	1013.3	975.5	881.5	673.2	444.7	233.3	188.9
25°	1015.6	977.0	880.5	668.3	432.7	221.9	178.8
25.5°	1017.9	978.3	879.0	663.1	420.8	212.3	164.0
26°	1020.2	979.7	877.3	657.8	408.8	202.7	145.4
26.5°	1022.5	981.0	875.4	652.5	396.9	193.1	125.1
27°	1024.8	982.1	873.4	647.3	385.0	183.5	108.6
27.5°	1026.8	983.1	871.2	641.9	373.7	173.0	94.9
28°	1029.2	984.4	868.7	636.8	361.9	160.3	82.4
28.5°	1031.2	985.6	866.2	631.5	350.2	143.2	69.7
29°	1033.4	986.6	863.7	625.8	338.8	125.1	54.7
29.5°	1035.7	987.8	861.4	619.8	327.3	108.6	40.1
30°	1038.1	988.7	858.7	613.7	316.1	94.5	30.2
30.5°	1040.1	989.6	856.1	607.8	305.1	82.8	26.1
31°	1042.0	990.8	853.5	601.8	294.2	71.5	24.5
31.5°	1044.2	991.7	850.9	595.9	283.3	59.2	23.7
32°	1046.1	992.4	848.3	589.8	272.7	46.1	23.1
32.5°	1048.2	993.4	845.6	583.2	262.8	35.4	22.5
33°	1050.1	994.3	843.1	576.4	253.1	28.8	22.0
33.5°	1052.1	995.0	840.6	569.5	242.7	25.8	21.3
34°	1054.0	995.8	837.9	562.8	232.9	24.5	20.6
34.5°	1056.1	996.5	835.0	555.7	223.2	23.6	19.8
35°	1058.2	997.1	832.1	548.0	214.0	22.9	18.9
35.5°	1060.1	997.7	829.4	540.6	204.0	22.4	18.3
36°	1062.1	998.2	826.7	533.0	193.4	22.0	17.9
36.5°	1064.1	998.8	823.7	525.3	182.7	21.5	17.6
37°	1065.9	999.2	820.8	517.3	172.8	21.0	17.5
37.5°	1067.7	999.6	817.5	509.5	163.4	20.6	17.3
38°	1069.4	1000.1	814.4	501.2	154.0	20.2	17.1
38.5°	1071.0	1000.5	811.2	492.9	144.3	19.9	16.8
39°	1072.8	1000.8	808.0	484.7	132.6	19.6	16.4
39.5°	1074.6	1001.4	804.8	476.5	118.8	19.2	16.1
40°	1076.1	1001.6	801.3	467.8	102.9	18.5	15.7
40.5°	1077.5	1001.7	797.7	459.3	86.3	17.9	15.3
41°	1079.1	1001.7	794.1	450.7	70.8	17.4	15.1
41.5°	1080.9	1002.1	790.7	442.2	58.4	16.7	15.0
42°	1082.4	1002.5	787.6	433.6	49.1	16.0	15.1
42.5°	1083.6	1002.9	783.9	425.1	42.6	15.3	15.9
43°	1085.1	1003.0	780.2	416.7	38.2	14.8	18.0
43.5°	1086.1	1002.8	776.7	408.4	35.2	14.4	25.9
44°	1086.7	1002.8	772.8	399.9	32.6	13.9	43.9
44.5°	1087.4	1002.6	768.9	391.5	30.7	13.3	60.5

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CATALOG NUMBER: AWP28S-BZ-LOW-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	1088.2	1002.4	764.9	383.0	29.0	12.9	73.8
45.5°	1088.7	1001.8	760.8	374.6	27.7	12.6	96.1
46°	1089.4	1001.4	756.6	365.7	26.6	12.3	106.4
46.5°	1089.7	1001.3	752.4	356.9	25.1	12.2	99.2
47°	1090.1	1001.0	748.2	347.9	23.6	12.1	95.2
47.5°	1090.2	1000.7	743.9	339.3	22.6	11.9	93.0
48°	1090.2	1000.4	739.4	330.7	21.8	11.8	88.9
48.5°	1090.2	999.9	735.0	321.8	21.1	11.9	83.2
49°	1089.9	999.7	730.2	312.6	20.4	12.3	74.3
49.5°	1089.9	999.4	725.5	303.5	19.8	13.6	65.4
50°	1089.9	998.7	720.8	294.6	19.3	18.3	55.8
50.5°	1090.2	998.1	715.8	285.4	18.7	27.6	45.2
51°	1090.2	997.2	710.9	276.2	18.1	37.7	36.0
51.5°	1090.2	996.2	705.9	266.8	17.5	41.5	29.5
52°	1090.6	995.0	700.7	257.8	16.9	49.5	25.0
52.5°	1090.7	994.1	695.4	248.2	16.4	58.6	21.3
53°	1090.7	992.5	690.0	238.3	15.9	54.0	17.9
53.5°	1090.7	991.3	684.6	228.7	15.4	50.1	15.1
54°	1090.7	990.2	679.4	218.8	15.0	48.1	12.4
54.5°	1090.6	989.2	674.0	208.4	14.6	46.5	10.3
55°	1090.4	988.5	668.5	198.0	14.2	45.4	8.8
55.5°	1090.1	987.7	662.9	187.7	13.8	44.1	7.7
56°	1089.5	986.9	657.2	177.3	13.5	42.4	6.8
56.5°	1089.3	986.1	651.8	166.6	13.2	40.5	6.1
57°	1088.8	985.3	646.0	155.6	12.9	38.3	5.6
57.5°	1088.2	984.6	640.2	145.4	12.5	36.0	5.1
58°	1087.5	983.9	634.8	136.0	12.2	33.5	4.7
58.5°	1086.7	982.9	628.9	127.5	11.8	30.9	4.3
59°	1086.0	982.0	622.8	120.5	11.4	28.2	4.0
59.5°	1085.2	980.9	617.1	114.7	10.9	25.4	3.6
60°	1084.2	979.9	611.3	110.5	10.4	22.5	3.1
60.5°	1083.1	978.6	605.9	107.8	10.0	19.7	2.6
61°	1082.4	977.1	600.3	105.8	9.5	17.1	2.2
61.5°	1081.7	975.3	594.8	99.5	9.1	14.8	1.9
62°	1081.2	973.4	589.0	86.7	8.4	12.6	1.8
62.5°	1080.2	971.7	582.9	71.6	7.9	10.2	1.8
63°	1079.1	969.7	577.4	60.3	7.5	7.1	1.7
63.5°	1078.0	967.3	571.5	54.4	7.0	3.7	1.6
64°	1076.9	965.1	565.8	51.6	6.7	1.9	1.4
64.5°	1075.3	962.8	559.6	49.9	6.4	1.3	1.3
65°	1073.9	960.8	552.9	48.3	6.0	1.2	1.1
65.5°	1072.7	958.5	546.7	46.7	5.7	1.2	1.0
66°	1070.9	956.3	540.2	45.2	5.4	1.2	0.9
66.5°	1069.0	954.2	533.8	43.9	5.1	1.1	0.9
67°	1067.1	952.2	527.7	42.6	4.8	1.0	0.8

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	1065.3	950.5	521.5	41.5	4.5	0.9	0.7
68°	1063.9	949.2	515.2	40.4	4.2	0.7	0.7
68.5°	1062.3	947.5	508.9	39.4	3.8	0.6	0.6
69°	1060.6	945.7	502.5	38.6	3.4	0.6	0.6
69.5°	1059.3	943.7	496.1	37.9	3.0	0.6	0.6
70°	1057.9	941.7	490.1	37.2	2.6	0.6	0.5
70.5°	1057.2	939.8	483.8	36.5	2.3	0.6	0.5
71°	1056.8	938.2	477.4	35.9	2.1	0.5	0.5
71.5°	1056.2	936.3	471.5	35.3	1.9	0.5	0.5
72°	1055.1	934.6	465.9	34.7	1.7	0.5	0.5
72.5°	1054.6	932.9	459.9	34.0	1.5	0.5	0.5
73°	1053.8	930.9	454.4	33.3	1.3	0.5	0.5
73.5°	1051.0	928.5	447.8	32.7	1.1	0.5	0.5
74°	1046.3	926.1	441.1	31.7	0.9	0.5	0.6
74.5°	1038.8	924.1	434.4	29.9	0.8	0.5	0.6
75°	1029.5	923.3	427.9	27.9	0.7	0.5	0.6
75.5°	1017.6	922.2	421.9	25.5	0.7	0.5	0.7
76°	1003.6	920.2	416.5	23.4	0.6	0.5	0.7
76.5°	985.9	917.5	411.1	20.6	0.6	0.5	0.7
77°	965.5	912.8	405.7	18.2	0.5	0.5	0.7
77.5°	943.5	906.4	400.3	16.4	0.4	0.5	0.7
78°	920.8	898.6	395.0	14.9	0.4	0.5	0.8
78.5°	897.4	888.1	390.7	13.6	0.4	0.4	0.8
79°	874.8	874.6	386.7	12.4	0.4	0.4	0.8
79.5°	853.1	859.5	382.7	11.3	0.4	0.4	0.8
80°	833.2	842.7	379.4	10.3	0.4	0.5	0.9
80.5°	817.4	827.7	376.1	9.5	0.4	0.4	0.9
81°	802.5	815.4	372.4	8.6	0.4	0.5	0.9
81.5°	790.8	808.1	368.7	7.7	0.4	0.5	1.0
82°	781.0	806.1	365.4	6.9	0.4	0.5	1.0
82.5°	771.2	807.8	363.2	6.3	0.4	0.5	1.0
83°	766.2	810.5	362.2	5.8	0.4	0.6	1.1
83.5°	763.6	813.6	362.7	5.3	0.4	0.6	1.1
84°	762.6	807.5	364.2	4.8	0.4	0.6	1.1
84.5°	762.2	789.3	366.5	4.4	0.4	0.6	1.2
85°	764.3	760.3	369.3	4.0	0.4	0.7	1.2
85.5°	756.6	719.8	371.3	3.7	0.4	0.7	1.3
86°	728.6	667.8	370.5	3.4	0.5	0.7	1.3
86.5°	677.6	607.1	369.1	3.1	0.5	0.7	1.3
87°	607.7	554.2	365.9	2.8	0.5	0.8	1.4
87.5°	553.9	507.1	356.6	2.6	0.5	0.8	1.4
88°	500.0	464.2	342.6	2.3	0.5	0.8	1.5
88.5°	446.2	420.2	324.3	2.0	0.5	0.9	1.5
89°	392.4	370.2	300.9	1.8	0.6	0.9	1.5
89.5°	339.1	349.8	272.8	1.6	0.6	0.9	1.6

REPORT NUMBER: P1197017

CATALOG NUMBER: AWP28S-BZ-LOW-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	317.2	356.7	241.8	1.3	0.6	1.0	1.6
90.5°	313.2	367.0	208.1	1.1	0.6	1.0	1.6
91°	330.4	350.1	174.7	1.0	0.7	1.1	1.7
91.5°	336.5	294.1	143.3	0.9	0.7	1.1	1.7
92°	279.4	209.8	118.3	0.8	0.7	1.1	1.7
92.5°	181.4	164.5	98.6	0.8	0.7	1.1	1.8
93°	114.6	120.1	80.3	0.7	0.8	1.2	1.8
93.5°	63.4	75.7	62.8	0.6	0.8	1.2	1.9
94°	34.9	31.5	49.4	0.6	0.8	1.2	1.9
94.5°	29.1	25.4	40.4	0.5	0.8	1.3	1.9
95°	29.3	23.1	36.0	0.5	0.9	1.3	1.9
95.5°	28.8	21.5	35.3	0.5	0.9	1.3	2.0
96°	27.9	20.8	36.9	0.5	0.9	1.4	2.0
96.5°	28.4	21.1	38.9	0.5	0.9	1.4	2.0
97°	31.2	22.1	41.7	0.5	1.0	1.4	2.0
97.5°	31.8	21.3	39.7	0.5	1.0	1.5	2.1
98°	28.9	19.6	31.6	0.5	1.0	1.5	2.1
98.5°	24.9	18.7	22.9	0.5	1.0	1.5	2.1
99°	22.2	18.0	16.4	0.4	1.1	1.6	2.2
99.5°	21.5	16.4	13.9	0.4	1.1	1.6	2.2
100°	21.3	15.5	11.6	0.4	1.1	1.6	2.2
100.5°	20.2	15.2	9.7	0.4	1.2	1.7	2.2
101°	18.9	15.0	8.4	0.4	1.2	1.7	2.3
101.5°	17.6	14.5	7.4	0.4	1.2	1.7	2.3
102°	16.0	13.6	6.2	0.4	1.2	1.8	2.3
102.5°	14.1	12.0	4.9	0.4	1.2	1.8	2.4
103°	12.1	10.2	4.0	0.4	1.3	1.8	2.4
103.5°	10.2	8.2	3.4	0.4	1.3	1.8	2.4
104°	8.8	6.4	2.8	0.4	1.3	1.9	2.4
104.5°	7.9	4.9	2.3	0.5	1.3	1.9	2.4
105°	7.2	3.6	1.9	0.5	1.4	1.9	2.5
105.5°	6.5	2.6	1.6	0.5	1.4	2.0	2.5
106°	5.3	2.0	1.4	0.5	1.4	2.0	2.5
106.5°	4.0	1.6	1.2	0.5	1.4	2.0	2.6
107°	2.7	1.3	1.0	0.5	1.4	2.0	2.6
107.5°	1.7	1.0	0.9	0.5	1.5	2.1	2.6
108°	1.2	0.9	0.7	0.5	1.5	2.1	2.6
108.5°	0.9	0.7	0.6	0.5	1.5	2.1	2.6
109°	0.8	0.5	0.5	0.6	1.5	2.1	2.6
109.5°	0.6	0.4	0.5	0.6	1.6	2.1	2.6
110°	0.4	0.2	0.4	0.6	1.6	2.2	2.6
110.5°	0.3	0.1	0.4	0.6	1.6	2.2	2.6
111°	0.1	0.1	0.3	0.6	1.6	2.2	2.6
111.5°	0.0	0.0	0.3	0.6	1.6	2.2	2.6
112°	0.0	0.0	0.2	0.6	1.6	2.2	2.7

REPORT NUMBER: P1197017

CATALOG NUMBER: AWP28S-BZ-LOW-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	0.0	0.0	0.2	0.6	1.6	2.2	2.7
113°	0.0	0.0	0.1	0.7	1.7	2.3	2.7
113.5°	0.0	0.0	0.1	0.7	1.7	2.3	2.7
114°	0.0	0.0	0.1	0.7	1.7	2.3	2.7
114.5°	0.0	0.0	0.1	0.7	1.7	2.3	2.7
115°	0.0	0.0	0.1	0.7	1.7	2.3	2.7
115.5°	0.0	0.0	0.1	0.7	1.8	2.4	2.8
116°	0.0	0.0	0.1	0.7	1.8	2.4	2.8
116.5°	0.0	0.0	0.1	0.7	1.8	2.4	2.8
117°	0.0	0.0	0.1	0.7	1.8	2.4	2.8
117.5°	0.0	0.0	0.1	0.8	1.8	2.4	2.8
118°	0.0	0.0	0.1	0.8	1.8	2.4	2.8
118.5°	0.0	0.0	0.1	0.8	1.9	2.4	2.8
119°	0.0	0.0	0.1	0.8	1.9	2.4	2.8
119.5°	0.0	0.0	0.1	0.8	1.9	2.4	2.8
120°	0.0	0.0	0.1	0.8	1.9	2.5	2.8
120.5°	0.0	0.0	0.1	0.9	1.9	2.5	2.8
121°	0.0	0.0	0.1	0.9	1.9	2.5	2.8
121.5°	0.0	0.0	0.2	0.9	1.9	2.5	2.8
122°	0.0	0.0	0.2	0.9	2.0	2.5	2.8
122.5°	0.0	0.0	0.2	0.9	2.0	2.6	2.8
123°	0.0	0.0	0.2	0.9	2.0	2.6	2.8
123.5°	0.0	0.0	0.2	0.9	2.0	2.6	2.8
124°	0.0	0.0	0.2	0.9	2.0	2.6	2.8
124.5°	0.0	0.0	0.3	1.0	2.0	2.6	2.8
125°	0.0	0.0	0.3	1.0	2.0	2.6	2.8
125.5°	0.0	0.0	0.3	1.0	2.0	2.6	2.8
126°	0.0	0.0	0.3	1.0	2.0	2.6	2.8
126.5°	0.0	0.0	0.3	1.1	2.0	2.6	2.8
127°	0.0	0.0	0.3	1.1	2.1	2.6	2.8
127.5°	0.0	0.0	0.3	1.1	2.1	2.6	2.8
128°	0.0	0.0	0.4	1.1	2.1	2.6	2.8
128.5°	0.0	0.0	0.4	1.1	2.1	2.6	2.8
129°	0.0	0.0	0.4	1.1	2.1	2.6	2.8
129.5°	0.0	0.0	0.4	1.1	2.1	2.7	2.8
130°	0.0	0.0	0.4	1.1	2.1	2.7	2.8
130.5°	0.0	0.0	0.5	1.1	2.1	2.7	2.8
131°	0.0	0.0	0.5	1.1	2.1	2.7	2.9
131.5°	0.0	0.0	0.5	1.2	2.1	2.7	2.9
132°	0.0	0.0	0.5	1.2	2.1	2.7	2.9
132.5°	0.0	0.0	0.5	1.2	2.1	2.7	2.9
133°	0.0	0.0	0.5	1.2	2.1	2.7	2.9
133.5°	0.0	0.0	0.5	1.3	2.2	2.7	2.9
134°	0.0	0.0	0.6	1.3	2.2	2.7	2.9
134.5°	0.0	0.0	0.6	1.3	2.2	2.7	2.9

REPORT NUMBER: P1197017

CATALOG NUMBER: AWP28S-BZ-LOW-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	0.0	0.0	0.6	1.3	2.2	2.7	2.9
135.5°	0.0	0.1	0.6	1.3	2.2	2.7	2.9
136°	0.0	0.1	0.6	1.3	2.2	2.7	2.9
136.5°	0.0	0.1	0.7	1.3	2.2	2.7	2.9
137°	0.0	0.1	0.7	1.3	2.2	2.7	2.9
137.5°	0.0	0.1	0.7	1.4	2.2	2.7	2.9
138°	0.0	0.1	0.7	1.4	2.2	2.7	2.9
138.5°	0.0	0.1	0.7	1.4	2.2	2.7	2.9
139°	0.1	0.2	0.7	1.4	2.2	2.7	2.9
139.5°	0.1	0.2	0.8	1.4	2.2	2.7	2.9
140°	0.1	0.2	0.8	1.4	2.2	2.7	2.9
140.5°	0.1	0.2	0.8	1.4	2.2	2.7	2.9
141°	0.1	0.2	0.8	1.5	2.2	2.7	2.9
141.5°	0.1	0.2	0.8	1.5	2.2	2.7	2.9
142°	0.1	0.3	0.8	1.5	2.2	2.7	2.8
142.5°	0.1	0.3	0.9	1.5	2.2	2.7	2.8
143°	0.1	0.3	0.9	1.5	2.3	2.7	2.8
143.5°	0.1	0.3	0.9	1.5	2.3	2.7	2.8
144°	0.1	0.3	0.9	1.5	2.3	2.7	2.8
144.5°	0.1	0.3	0.9	1.5	2.3	2.7	2.8
145°	0.2	0.3	1.0	1.5	2.3	2.7	2.8
145.5°	0.2	0.4	1.0	1.5	2.3	2.7	2.8
146°	0.2	0.4	1.0	1.6	2.3	2.7	2.8
146.5°	0.2	0.4	1.0	1.6	2.3	2.7	2.7
147°	0.2	0.4	1.0	1.6	2.3	2.7	2.7
147.5°	0.2	0.4	1.0	1.6	2.3	2.7	2.7
148°	0.3	0.4	1.0	1.6	2.3	2.7	2.7
148.5°	0.3	0.5	1.1	1.6	2.3	2.7	2.7
149°	0.3	0.5	1.1	1.6	2.3	2.7	2.7
149.5°	0.3	0.5	1.1	1.7	2.3	2.7	2.7
150°	0.3	0.5	1.1	1.7	2.3	2.7	2.7
150.5°	0.3	0.6	1.1	1.7	2.3	2.7	2.7
151°	0.4	0.6	1.2	1.7	2.3	2.7	2.7
151.5°	0.4	0.6	1.2	1.7	2.3	2.7	2.7
152°	0.4	0.6	1.2	1.7	2.3	2.7	2.7
152.5°	0.4	0.6	1.2	1.7	2.3	2.7	2.7
153°	0.4	0.7	1.2	1.7	2.3	2.7	2.7
153.5°	0.5	0.7	1.2	1.7	2.4	2.7	2.6
154°	0.5	0.7	1.3	1.7	2.3	2.7	2.6
154.5°	0.5	0.7	1.3	1.8	2.4	2.7	2.6
155°	0.5	0.7	1.3	1.8	2.4	2.7	2.6
155.5°	0.5	0.8	1.3	1.8	2.4	2.7	2.6
156°	0.6	0.8	1.3	1.8	2.4	2.7	2.6
156.5°	0.6	0.8	1.3	1.8	2.4	2.7	2.6
157°	0.6	0.8	1.4	1.8	2.4	2.7	2.6

REPORT NUMBER: P1197017

CATALOG NUMBER: AWP28S-BZ-LOW-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	0.6	0.9	1.4	1.8	2.4	2.7	2.6
158°	0.6	0.9	1.4	1.8	2.4	2.7	2.6
158.5°	0.7	0.9	1.4	1.9	2.4	2.6	2.5
159°	0.7	0.9	1.4	1.9	2.4	2.6	2.5
159.5°	0.7	0.9	1.4	1.9	2.4	2.6	2.5
160°	0.7	1.0	1.5	1.9	2.4	2.6	2.5
160.5°	0.8	1.0	1.5	1.9	2.4	2.6	2.5
161°	0.8	1.0	1.5	1.9	2.4	2.6	2.5
161.5°	0.8	1.0	1.5	1.9	2.4	2.6	2.5
162°	0.8	1.1	1.5	1.9	2.4	2.6	2.4
162.5°	0.8	1.1	1.5	1.9	2.4	2.6	2.4
163°	0.8	1.1	1.6	2.0	2.4	2.6	2.4
163.5°	0.9	1.1	1.6	2.0	2.4	2.5	2.4
164°	0.9	1.1	1.6	2.0	2.4	2.5	2.4
164.5°	0.9	1.1	1.6	2.0	2.4	2.5	2.4
165°	0.9	1.2	1.6	2.0	2.4	2.5	2.4
165.5°	0.9	1.2	1.6	2.0	2.4	2.5	2.3
166°	1.0	1.3	1.6	2.0	2.4	2.5	2.3
166.5°	1.0	1.3	1.7	2.0	2.4	2.5	2.3
167°	1.0	1.3	1.7	2.0	2.4	2.5	2.3
167.5°	1.0	1.3	1.7	2.0	2.4	2.5	2.3
168°	1.1	1.3	1.7	2.0	2.4	2.5	2.3
168.5°	1.1	1.3	1.7	2.1	2.4	2.5	2.3
169°	1.1	1.4	1.8	2.0	2.4	2.5	2.2
169.5°	1.1	1.4	1.8	2.1	2.4	2.5	2.2
170°	1.2	1.4	1.8	2.1	2.3	2.5	2.2
170.5°	1.2	1.4	1.8	2.1	2.3	2.4	2.2
171°	1.2	1.5	1.8	2.1	2.3	2.4	2.2
171.5°	1.2	1.5	1.8	2.1	2.3	2.4	2.1
172°	1.3	1.5	1.9	2.1	2.3	2.4	2.1
172.5°	1.3	1.5	1.9	2.1	2.3	2.4	2.1
173°	1.3	1.5	1.9	2.1	2.3	2.4	2.1
173.5°	1.4	1.6	1.9	2.1	2.3	2.3	2.0
174°	1.4	1.6	1.9	2.1	2.3	2.3	2.0
174.5°	1.4	1.6	2.0	2.1	2.3	2.3	2.0
175°	1.4	1.6	2.0	2.1	2.3	2.3	2.0
175.5°	1.4	1.7	2.0	2.2	2.3	2.3	1.9
176°	1.5	1.7	2.0	2.2	2.3	2.3	1.9
176.5°	1.5	1.7	2.0	2.2	2.3	2.3	1.9
177°	1.5	1.7	2.0	2.2	2.2	2.3	1.8
177.5°	1.6	1.7	2.0	2.2	2.2	2.3	1.8
178°	1.6	1.8	2.0	2.2	2.2	2.2	1.8
178.5°	1.6	1.8	2.0	2.2	2.2	2.2	1.8
179°	1.6	1.8	2.0	2.2	2.2	2.2	1.8
179.5°	1.7	1.8	2.0	2.2	2.2	2.2	1.7



REPORT NUMBER: P1197017
CATALOG NUMBER: AWPf28S-BZ-LOW-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	2.2	2.2	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)