

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: P1197020

Luminaire Tested: AWPf28S-BZ-LOW-4000K-POSITION 30

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197020
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-4000K-POSITION 30
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 4000K
Ballast/Driver: -

Summary

Lumens per Lamp: 3521 (1 lamp)
Luminaire Lumens: 2734.8 lumens
Efficiency: 77.7%
Efficacy: 134.1 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): 20.4
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

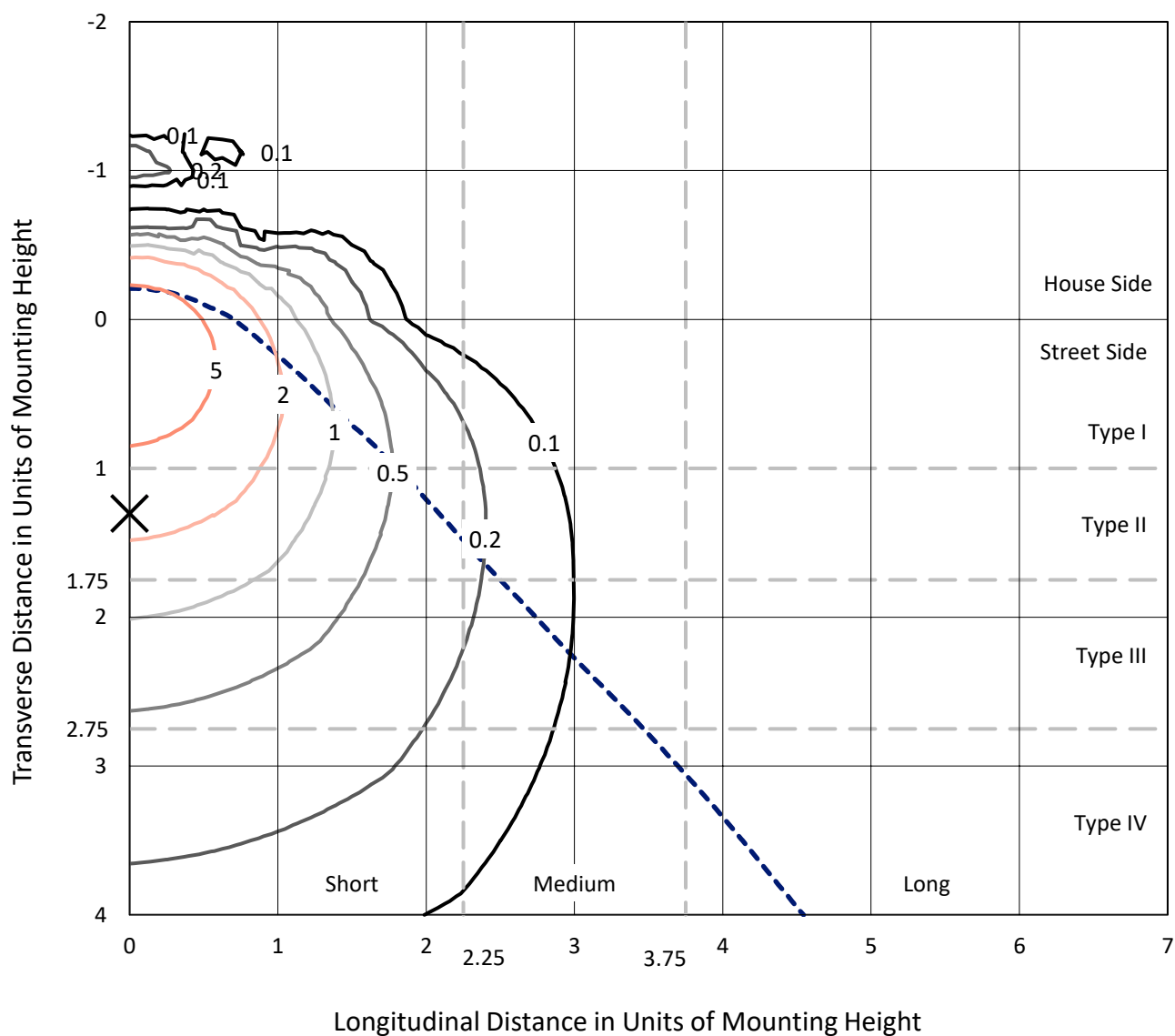
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

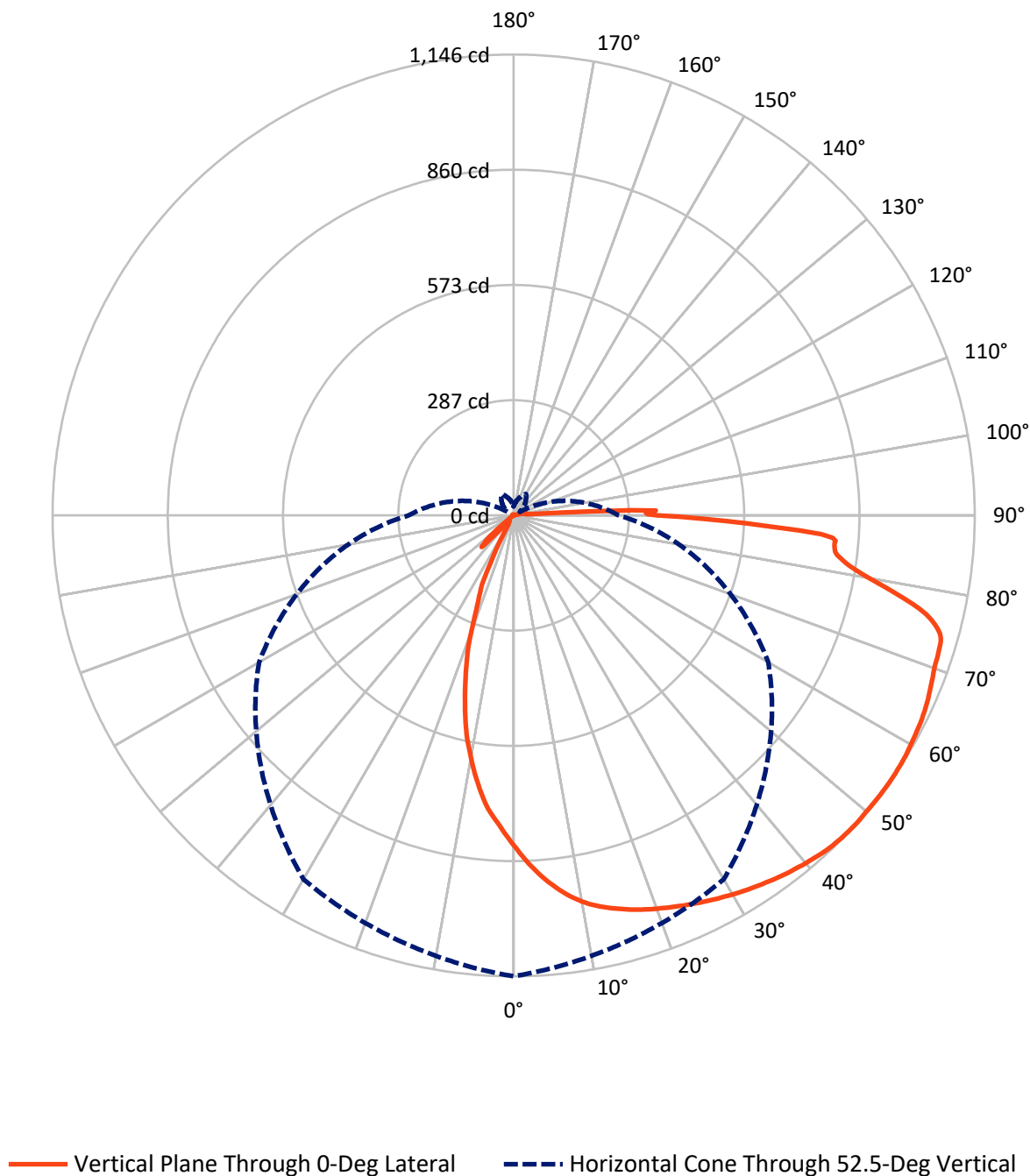


Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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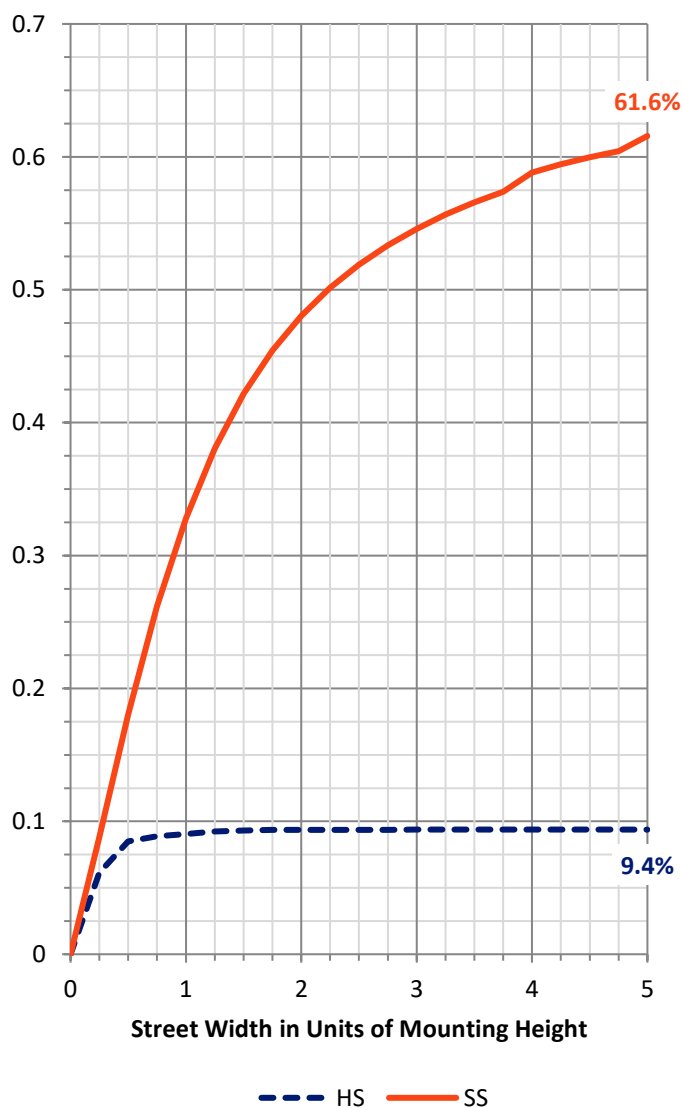
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	334.7	6.3	341.0
	% Lamp	9.5	0.2	9.7
Street Side	Lumens	2346.8	47.0	2393.8
	% Lamp	66.7	1.3	68.0
Total	Lumens	2681.5	53.4	2734.8
	% Lamp	76.2	1.5	77.7

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	78.4	2.9	2.2
10°-20°	216.9	7.9	6.2
20°-30°	304.1	11.1	8.6
30°-40°	346.5	12.7	9.8
40°-50°	375.2	13.7	10.7
50°-60°	386.2	14.1	11.0
60°-70°	368.4	13.5	10.5
70°-80°	346.4	12.7	9.8
80°-90°	259.4	9.5	7.4
90°-100°	43.9	1.6	1.2
100°-110°	3.5	0.1	0.1
110°-120°	1.1	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°	0.6	0.0	0.0
170°-180°	0.2	0.0	0.0
0°-90°	2681.5	98.0	76.2
0°-180°	2734.8	100.0	77.7

Coefficient of Utilization



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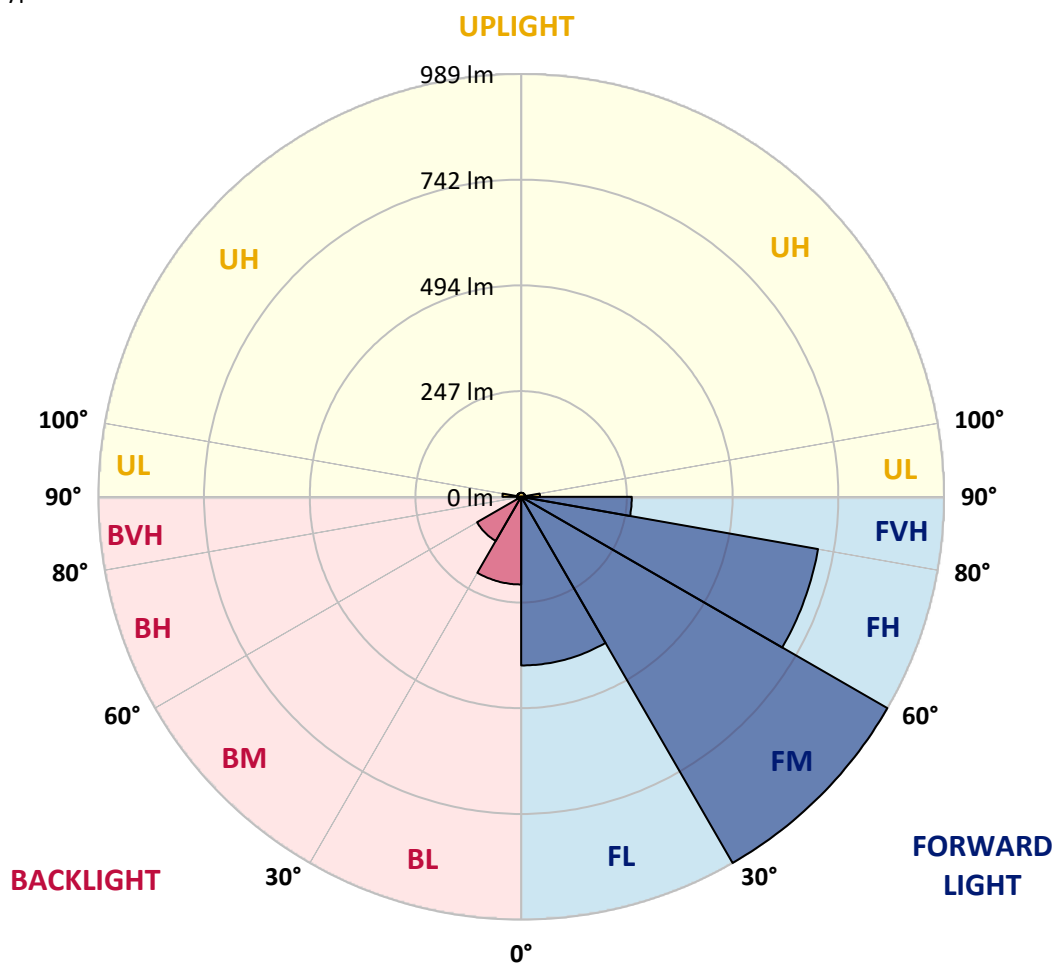
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	394.3	11.2			
FM	(30°-60°)	988.9	28.1			
FH	(60°-80°)	704.9	20.0			G1/1800
FVH	(80°-90°)	258.6	7.3			G3/500
BL	(0°-30°)	205.0	5.8	B1/500		
BM	(30°-60°)	119.0	3.4	B0/220		
BH	(60°-80°)	9.9	0.3	B0/110		G0/110
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	43.9	1.2		U2/50	
UH	(100°-180°)	9.4	0.3		U1/10	
Trapped Light		786.2	22.3			

BUG Rating: B1-U2-G3

Type IV Short



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CATALOG NUMBER: AWP28S-BZ-LOW-4000K-POSITION 30

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	829.2	829.2	829.2	829.2	829.2	829.2	829.2
0.5°	838.6	837.4	833.9	829.0	824.5	821.0	820.2
1°	848.0	845.2	838.7	829.0	819.8	812.8	810.7
1.5°	857.2	853.2	843.4	828.8	815.1	804.8	801.5
2°	866.4	861.0	847.6	828.5	810.4	796.8	792.1
2.5°	875.7	868.9	851.8	828.2	805.6	788.6	783.2
3°	884.3	876.2	856.2	827.7	800.6	780.7	773.9
3.5°	893.2	883.6	860.6	827.3	795.4	772.7	765.3
4°	901.4	890.9	864.6	826.7	790.3	765.0	756.8
4.5°	909.0	897.6	868.3	826.0	785.4	758.0	748.7
5°	916.6	903.8	872.4	825.0	780.2	750.5	740.8
5.5°	924.2	910.3	876.0	824.1	774.9	743.2	731.8
6°	931.5	916.8	879.7	823.1	769.5	734.7	721.7
6.5°	938.3	922.5	883.2	822.1	764.4	725.7	711.0
7°	945.2	928.2	886.6	821.0	759.2	716.1	699.1
7.5°	951.9	933.8	889.7	819.7	753.9	705.4	686.9
8°	957.8	939.4	892.6	818.3	749.1	694.4	674.6
8.5°	963.8	944.7	895.5	816.7	744.0	683.6	662.8
9°	969.5	949.7	898.5	815.3	738.5	673.1	650.0
9.5°	974.8	954.5	901.6	813.6	733.3	661.5	636.8
10°	979.5	959.2	904.5	811.9	727.5	649.8	624.2
10.5°	984.2	963.8	907.1	810.1	721.4	638.0	610.9
11°	988.3	967.7	909.9	808.2	714.8	626.3	597.9
11.5°	992.3	971.5	912.4	806.1	708.3	614.4	585.2
12°	996.3	975.4	914.9	803.9	701.1	602.5	572.9
12.5°	999.9	978.7	917.1	801.5	693.8	590.6	559.1
13°	1003.3	981.8	919.1	799.0	685.8	579.3	544.8
13.5°	1006.5	984.5	921.0	796.5	677.7	567.1	529.4
14°	1009.9	987.1	922.9	793.9	669.6	554.8	513.9
14.5°	1012.8	989.6	924.6	791.1	661.3	541.0	498.9
15°	1015.9	992.1	926.1	788.4	653.0	527.5	482.9
15.5°	1019.1	994.6	927.4	785.3	644.4	513.4	467.7
16°	1022.2	997.3	928.5	782.2	635.4	499.0	451.8
16.5°	1025.0	999.3	929.6	778.8	626.7	484.2	435.6
17°	1027.8	1001.5	930.6	775.1	618.0	469.5	420.7
17.5°	1030.4	1003.6	931.2	771.4	608.8	454.6	405.6
18°	1033.1	1005.5	931.7	767.5	599.6	439.8	391.0
18.5°	1036.2	1007.3	932.2	763.6	589.8	425.3	375.5
19°	1038.5	1009.1	932.3	759.7	580.3	410.8	359.8
19.5°	1040.6	1011.0	932.4	755.7	570.6	397.1	344.5
20°	1043.1	1012.5	932.5	751.5	561.2	383.4	325.6
20.5°	1045.6	1014.0	932.5	747.6	552.1	369.5	305.3
21°	1048.0	1015.7	932.3	743.0	543.1	355.7	286.9
21.5°	1050.4	1017.4	931.9	738.3	533.3	340.9	270.7
22°	1052.8	1018.6	931.4	733.4	523.4	326.4	255.9

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CATALOG NUMBER: AWP28S-BZ-LOW-4000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	1055.4	1020.0	930.7	728.3	512.8	308.7	242.4
23°	1058.0	1021.2	930.0	723.1	501.4	290.8	230.4
23.5°	1060.4	1022.5	928.8	718.0	489.6	273.8	219.8
24°	1062.6	1023.9	927.6	712.6	478.6	258.7	209.1
24.5°	1064.8	1025.1	926.3	707.4	467.3	245.2	198.5
25°	1067.2	1026.7	925.3	702.3	454.7	233.2	187.9
25.5°	1069.7	1028.1	923.7	696.9	442.2	223.1	172.4
26°	1072.1	1029.5	921.9	691.3	429.6	213.0	152.8
26.5°	1074.5	1030.9	919.9	685.7	417.1	203.0	131.4
27°	1076.9	1032.0	917.8	680.2	404.6	192.9	114.1
27.5°	1079.1	1033.1	915.5	674.6	392.7	181.8	99.7
28°	1081.5	1034.5	912.9	669.2	380.3	168.4	86.6
28.5°	1083.7	1035.7	910.3	663.6	368.0	150.5	73.3
29°	1085.9	1036.8	907.6	657.6	356.0	131.5	57.5
29.5°	1088.4	1038.0	905.2	651.3	343.9	114.1	42.1
30°	1090.9	1038.9	902.3	644.9	332.2	99.3	31.7
30.5°	1093.0	1040.0	899.6	638.8	320.6	87.1	27.4
31°	1095.0	1041.2	896.9	632.4	309.2	75.2	25.8
31.5°	1097.3	1042.1	894.2	626.3	297.7	62.2	24.9
32°	1099.3	1042.9	891.5	619.8	286.6	48.5	24.3
32.5°	1101.5	1043.9	888.6	612.9	276.1	37.2	23.7
33°	1103.5	1044.8	886.0	605.7	265.9	30.2	23.1
33.5°	1105.7	1045.6	883.3	598.5	255.1	27.1	22.4
34°	1107.6	1046.4	880.5	591.4	244.7	25.8	21.6
34.5°	1109.8	1047.1	877.5	584.0	234.6	24.8	20.8
35°	1112.1	1047.8	874.4	575.9	224.9	24.1	19.9
35.5°	1114.0	1048.5	871.6	568.1	214.4	23.6	19.2
36°	1116.1	1049.0	868.7	560.1	203.2	23.1	18.8
36.5°	1118.3	1049.6	865.6	552.0	192.0	22.5	18.5
37°	1120.1	1050.0	862.5	543.6	181.6	22.1	18.4
37.5°	1122.0	1050.4	859.1	535.4	171.7	21.6	18.2
38°	1123.8	1050.9	855.8	526.7	161.9	21.2	17.9
38.5°	1125.4	1051.3	852.5	517.9	151.6	21.0	17.6
39°	1127.4	1051.7	849.1	509.3	139.4	20.6	17.2
39.5°	1129.3	1052.3	845.8	500.7	124.8	20.2	16.9
40°	1130.8	1052.6	842.0	491.6	108.1	19.5	16.5
40.5°	1132.3	1052.6	838.3	482.6	90.7	18.8	16.1
41°	1134.0	1052.7	834.5	473.6	74.4	18.2	15.8
41.5°	1135.9	1053.1	831.0	464.7	61.3	17.5	15.8
42°	1137.5	1053.5	827.7	455.7	51.6	16.8	15.9
42.5°	1138.7	1053.9	823.8	446.7	44.7	16.0	16.7
43°	1140.3	1054.0	819.9	437.9	40.2	15.5	18.9
43.5°	1141.3	1053.9	816.3	429.2	37.0	15.1	27.2
44°	1141.9	1053.8	812.1	420.2	34.3	14.6	46.2
44.5°	1142.7	1053.6	808.0	411.4	32.2	14.0	63.6

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CATALOG NUMBER: AWP28S-BZ-LOW-4000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	1143.6	1053.3	803.8	402.4	30.5	13.6	77.5
45.5°	1144.1	1052.8	799.5	393.6	29.2	13.2	101.0
46°	1144.8	1052.4	795.1	384.3	27.9	13.0	111.8
46.5°	1145.2	1052.2	790.6	375.0	26.3	12.8	104.2
47°	1145.5	1051.9	786.3	365.6	24.8	12.7	100.1
47.5°	1145.7	1051.6	781.8	356.5	23.8	12.5	97.7
48°	1145.6	1051.3	777.1	347.5	22.9	12.4	93.4
48.5°	1145.7	1050.7	772.3	338.2	22.2	12.5	87.5
49°	1145.4	1050.5	767.4	328.5	21.5	13.0	78.1
49.5°	1145.3	1050.2	762.4	318.9	20.9	14.3	68.7
50°	1145.4	1049.5	757.5	309.6	20.2	19.2	58.6
50.5°	1145.6	1048.8	752.2	299.9	19.7	29.0	47.5
51°	1145.7	1047.9	747.0	290.2	19.0	39.6	37.9
51.5°	1145.7	1046.9	741.8	280.4	18.4	43.6	31.0
52°	1146.1	1045.6	736.3	270.9	17.8	52.0	26.3
52.5°	1146.2	1044.6	730.8	260.9	17.3	61.6	22.4
53°	1146.1	1043.0	725.1	250.5	16.7	56.8	18.9
53.5°	1146.1	1041.7	719.4	240.3	16.2	52.7	15.8
54°	1146.2	1040.6	713.9	229.9	15.8	50.6	13.0
54.5°	1146.0	1039.6	708.3	219.0	15.4	48.9	10.8
55°	1145.9	1038.8	702.5	208.1	15.0	47.7	9.3
55.5°	1145.6	1037.9	696.6	197.2	14.5	46.3	8.1
56°	1144.9	1037.1	690.6	186.3	14.2	44.5	7.1
56.5°	1144.7	1036.3	685.0	175.0	13.9	42.6	6.4
57°	1144.2	1035.4	678.8	163.5	13.6	40.3	5.8
57.5°	1143.5	1034.6	672.8	152.8	13.2	37.8	5.4
58°	1142.8	1033.9	667.1	142.9	12.8	35.2	5.0
58.5°	1142.0	1032.9	660.9	134.0	12.4	32.4	4.6
59°	1141.2	1032.0	654.5	126.7	12.0	29.6	4.2
59.5°	1140.4	1030.8	648.5	120.5	11.5	26.7	3.8
60°	1139.4	1029.8	642.4	116.1	10.9	23.6	3.3
60.5°	1138.1	1028.4	636.7	113.3	10.5	20.7	2.8
61°	1137.5	1026.8	630.8	111.2	10.0	18.0	2.3
61.5°	1136.7	1025.0	625.1	104.6	9.6	15.5	2.0
62°	1136.2	1022.9	618.9	91.1	8.9	13.3	1.9
62.5°	1135.1	1021.1	612.6	75.3	8.3	10.7	1.9
63°	1134.0	1019.0	606.7	63.3	7.9	7.4	1.8
63.5°	1132.8	1016.5	600.6	57.1	7.4	3.9	1.7
64°	1131.6	1014.2	594.6	54.3	7.0	2.0	1.5
64.5°	1130.0	1011.8	588.1	52.4	6.7	1.3	1.3
65°	1128.6	1009.7	581.0	50.7	6.4	1.2	1.2
65.5°	1127.2	1007.2	574.5	49.1	6.0	1.2	1.0
66°	1125.4	1005.0	567.6	47.5	5.7	1.2	1.0
66.5°	1123.3	1002.8	560.9	46.1	5.4	1.2	1.0
67°	1121.4	1000.6	554.6	44.8	5.1	1.1	0.9

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	1119.4	998.8	548.0	43.6	4.8	1.0	0.8
68°	1118.0	997.5	541.4	42.4	4.4	0.8	0.7
68.5°	1116.3	995.7	534.8	41.4	4.0	0.6	0.6
69°	1114.5	993.8	528.1	40.6	3.6	0.6	0.6
69.5°	1113.2	991.7	521.4	39.8	3.1	0.6	0.6
70°	1111.7	989.6	515.0	39.1	2.7	0.6	0.6
70.5°	1111.0	987.6	508.4	38.4	2.4	0.6	0.6
71°	1110.6	985.9	501.7	37.7	2.2	0.6	0.6
71.5°	1109.9	983.9	495.4	37.1	2.0	0.6	0.6
72°	1108.8	982.2	489.6	36.5	1.7	0.5	0.6
72.5°	1108.2	980.4	483.3	35.8	1.5	0.5	0.6
73°	1107.4	978.2	477.5	34.9	1.4	0.5	0.6
73.5°	1104.4	975.7	470.6	34.4	1.2	0.5	0.6
74°	1099.5	973.2	463.6	33.3	1.0	0.5	0.6
74.5°	1091.7	971.1	456.5	31.4	0.8	0.5	0.6
75°	1081.9	970.3	449.7	29.3	0.7	0.5	0.7
75.5°	1069.4	969.2	443.3	26.8	0.7	0.5	0.7
76°	1054.6	967.0	437.7	24.6	0.6	0.5	0.7
76.5°	1036.1	964.2	432.0	21.6	0.6	0.5	0.7
77°	1014.6	959.2	426.4	19.1	0.5	0.5	0.8
77.5°	991.5	952.5	420.7	17.3	0.5	0.5	0.8
78°	967.7	944.3	415.1	15.7	0.4	0.5	0.8
78.5°	943.1	933.3	410.6	14.3	0.4	0.5	0.9
79°	919.3	919.1	406.3	13.0	0.4	0.5	0.9
79.5°	896.5	903.3	402.2	11.9	0.4	0.5	0.9
80°	875.6	885.6	398.7	10.8	0.4	0.5	0.9
80.5°	859.0	869.7	395.2	10.0	0.4	0.5	0.9
81°	843.3	856.9	391.4	9.0	0.4	0.5	1.0
81.5°	831.1	849.1	387.5	8.1	0.4	0.5	1.0
82°	820.7	847.1	384.0	7.3	0.4	0.5	1.1
82.5°	810.5	848.9	381.7	6.6	0.4	0.6	1.1
83°	805.2	851.8	380.6	6.1	0.4	0.6	1.1
83.5°	802.4	855.0	381.2	5.5	0.4	0.6	1.2
84°	801.4	848.6	382.8	5.0	0.4	0.7	1.2
84.5°	801.0	829.4	385.2	4.6	0.4	0.7	1.2
85°	803.2	798.9	388.1	4.2	0.4	0.7	1.3
85.5°	795.0	756.4	390.2	3.9	0.5	0.7	1.3
86°	765.7	701.8	389.4	3.5	0.5	0.8	1.4
86.5°	712.1	638.0	387.9	3.3	0.5	0.8	1.4
87°	638.6	582.4	384.6	3.0	0.5	0.8	1.4
87.5°	582.0	532.9	374.7	2.7	0.5	0.9	1.5
88°	525.5	487.8	360.1	2.4	0.5	0.9	1.5
88.5°	468.9	441.5	340.8	2.1	0.6	0.9	1.6
89°	412.4	389.0	316.2	1.9	0.6	0.9	1.6
89.5°	356.4	367.5	286.7	1.7	0.6	1.0	1.6

REPORT NUMBER: P1197020

CATALOG NUMBER: AWPf28S-BZ-LOW-4000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	333.3	374.8	254.1	1.4	0.6	1.0	1.7
90.5°	329.2	385.7	218.7	1.2	0.7	1.0	1.7
91°	347.2	367.9	183.6	1.1	0.7	1.1	1.8
91.5°	353.6	309.0	150.5	1.0	0.7	1.1	1.8
92°	293.6	220.5	124.4	0.9	0.7	1.2	1.8
92.5°	190.7	172.8	103.6	0.8	0.8	1.2	1.9
93°	120.4	126.2	84.4	0.7	0.8	1.2	1.9
93.5°	66.6	79.6	66.0	0.6	0.8	1.3	2.0
94°	36.7	33.1	51.9	0.6	0.8	1.3	2.0
94.5°	30.6	26.6	42.4	0.6	0.9	1.3	2.0
95°	30.8	24.2	37.8	0.5	0.9	1.4	2.0
95.5°	30.2	22.6	37.1	0.5	0.9	1.4	2.1
96°	29.3	21.8	38.8	0.5	1.0	1.4	2.1
96.5°	29.8	22.1	40.9	0.5	1.0	1.5	2.1
97°	32.7	23.2	43.8	0.5	1.0	1.5	2.1
97.5°	33.4	22.4	41.7	0.5	1.0	1.6	2.2
98°	30.4	20.6	33.2	0.5	1.1	1.6	2.2
98.5°	26.2	19.6	24.1	0.5	1.1	1.6	2.2
99°	23.3	18.9	17.2	0.5	1.1	1.6	2.3
99.5°	22.6	17.3	14.6	0.5	1.2	1.7	2.3
100°	22.4	16.3	12.2	0.5	1.2	1.7	2.3
100.5°	21.2	15.9	10.2	0.5	1.2	1.7	2.4
101°	19.8	15.7	8.8	0.5	1.2	1.8	2.4
101.5°	18.5	15.3	7.7	0.5	1.3	1.8	2.4
102°	16.8	14.3	6.5	0.5	1.3	1.8	2.5
102.5°	14.8	12.7	5.2	0.5	1.3	1.9	2.5
103°	12.7	10.7	4.2	0.5	1.3	1.9	2.5
103.5°	10.7	8.6	3.5	0.5	1.4	1.9	2.5
104°	9.3	6.7	2.9	0.5	1.4	2.0	2.5
104.5°	8.3	5.2	2.4	0.5	1.4	2.0	2.6
105°	7.6	3.7	2.0	0.5	1.4	2.0	2.6
105.5°	6.8	2.7	1.7	0.5	1.5	2.1	2.6
106°	5.6	2.1	1.5	0.5	1.5	2.1	2.6
106.5°	4.2	1.7	1.3	0.5	1.5	2.1	2.7
107°	2.9	1.3	1.1	0.5	1.5	2.1	2.7
107.5°	1.8	1.1	0.9	0.5	1.5	2.2	2.7
108°	1.2	0.9	0.8	0.6	1.6	2.2	2.7
108.5°	1.0	0.7	0.6	0.6	1.6	2.2	2.7
109°	0.8	0.6	0.5	0.6	1.6	2.2	2.7
109.5°	0.6	0.4	0.5	0.6	1.6	2.3	2.7
110°	0.5	0.3	0.4	0.6	1.6	2.3	2.7
110.5°	0.3	0.1	0.4	0.7	1.7	2.3	2.8
111°	0.1	0.1	0.3	0.7	1.7	2.3	2.8
111.5°	0.0	0.0	0.3	0.7	1.7	2.3	2.8
112°	0.0	0.0	0.2	0.7	1.7	2.3	2.8

REPORT NUMBER: P1197020

CATALOG NUMBER: AWP28S-BZ-LOW-4000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	0.0	0.0	0.2	0.7	1.7	2.4	2.8
113°	0.0	0.0	0.1	0.7	1.8	2.4	2.8
113.5°	0.0	0.0	0.1	0.7	1.8	2.4	2.8
114°	0.0	0.0	0.1	0.7	1.8	2.4	2.8
114.5°	0.0	0.0	0.1	0.7	1.8	2.4	2.8
115°	0.0	0.0	0.1	0.7	1.8	2.5	2.9
115.5°	0.0	0.0	0.1	0.7	1.9	2.5	2.9
116°	0.0	0.0	0.1	0.8	1.9	2.5	2.9
116.5°	0.0	0.0	0.1	0.8	1.9	2.5	2.9
117°	0.0	0.0	0.1	0.8	1.9	2.5	2.9
117.5°	0.0	0.0	0.1	0.8	1.9	2.5	2.9
118°	0.0	0.0	0.1	0.8	1.9	2.5	2.9
118.5°	0.0	0.0	0.1	0.9	1.9	2.6	2.9
119°	0.0	0.0	0.1	0.9	2.0	2.6	2.9
119.5°	0.0	0.0	0.1	0.9	2.0	2.6	2.9
120°	0.0	0.0	0.1	0.9	2.0	2.6	2.9
120.5°	0.0	0.0	0.1	0.9	2.0	2.6	2.9
121°	0.0	0.0	0.2	0.9	2.0	2.6	2.9
121.5°	0.0	0.0	0.2	0.9	2.0	2.6	2.9
122°	0.0	0.0	0.2	0.9	2.1	2.7	2.9
122.5°	0.0	0.0	0.2	1.0	2.1	2.7	2.9
123°	0.0	0.0	0.2	1.0	2.1	2.7	2.9
123.5°	0.0	0.0	0.2	1.0	2.1	2.7	2.9
124°	0.0	0.0	0.3	1.0	2.1	2.7	2.9
124.5°	0.0	0.0	0.3	1.0	2.1	2.7	2.9
125°	0.0	0.0	0.3	1.0	2.1	2.7	2.9
125.5°	0.0	0.0	0.3	1.1	2.1	2.8	2.9
126°	0.0	0.0	0.3	1.1	2.1	2.8	2.9
126.5°	0.0	0.0	0.3	1.1	2.1	2.8	3.0
127°	0.0	0.0	0.3	1.1	2.2	2.8	2.9
127.5°	0.0	0.0	0.3	1.1	2.2	2.8	3.0
128°	0.0	0.0	0.4	1.1	2.2	2.8	3.0
128.5°	0.0	0.0	0.4	1.1	2.2	2.8	3.0
129°	0.0	0.0	0.4	1.1	2.2	2.8	3.0
129.5°	0.0	0.0	0.4	1.2	2.2	2.8	3.0
130°	0.0	0.0	0.5	1.2	2.2	2.8	3.0
130.5°	0.0	0.0	0.5	1.2	2.2	2.8	3.0
131°	0.0	0.0	0.5	1.2	2.2	2.8	3.0
131.5°	0.0	0.0	0.5	1.2	2.2	2.8	3.0
132°	0.0	0.0	0.5	1.2	2.2	2.8	3.0
132.5°	0.0	0.0	0.5	1.3	2.3	2.8	3.0
133°	0.0	0.0	0.6	1.3	2.3	2.8	3.0
133.5°	0.0	0.0	0.6	1.3	2.3	2.8	3.0
134°	0.0	0.0	0.6	1.3	2.3	2.8	3.0
134.5°	0.0	0.0	0.6	1.3	2.3	2.8	3.0

REPORT NUMBER: P1197020

CATALOG NUMBER: AWPf28S-BZ-LOW-4000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	0.0	0.0	0.6	1.3	2.3	2.8	3.0
135.5°	0.0	0.1	0.6	1.4	2.3	2.8	3.0
136°	0.0	0.1	0.7	1.4	2.3	2.8	3.0
136.5°	0.0	0.1	0.7	1.4	2.3	2.8	3.0
137°	0.0	0.1	0.7	1.4	2.3	2.8	3.0
137.5°	0.0	0.1	0.7	1.4	2.3	2.8	3.0
138°	0.0	0.1	0.7	1.4	2.3	2.8	3.0
138.5°	0.0	0.1	0.8	1.4	2.3	2.8	3.0
139°	0.1	0.2	0.8	1.5	2.3	2.8	3.0
139.5°	0.1	0.2	0.8	1.5	2.3	2.8	3.0
140°	0.1	0.2	0.8	1.5	2.3	2.8	3.0
140.5°	0.1	0.2	0.8	1.5	2.3	2.8	3.0
141°	0.1	0.2	0.8	1.5	2.4	2.8	3.0
141.5°	0.1	0.2	0.9	1.6	2.4	2.8	3.0
142°	0.1	0.3	0.9	1.6	2.4	2.8	3.0
142.5°	0.1	0.3	0.9	1.6	2.4	2.8	3.0
143°	0.1	0.3	0.9	1.6	2.4	2.8	3.0
143.5°	0.1	0.3	0.9	1.6	2.4	2.8	3.0
144°	0.1	0.3	1.0	1.6	2.4	2.8	3.0
144.5°	0.2	0.3	1.0	1.6	2.4	2.8	3.0
145°	0.2	0.3	1.0	1.6	2.4	2.8	2.9
145.5°	0.2	0.4	1.0	1.6	2.4	2.8	2.9
146°	0.2	0.4	1.0	1.6	2.4	2.8	2.9
146.5°	0.2	0.4	1.0	1.7	2.4	2.8	2.9
147°	0.2	0.4	1.1	1.7	2.4	2.8	2.9
147.5°	0.3	0.4	1.1	1.7	2.4	2.8	2.9
148°	0.3	0.5	1.1	1.7	2.4	2.8	2.9
148.5°	0.3	0.5	1.1	1.7	2.4	2.8	2.9
149°	0.3	0.5	1.2	1.7	2.4	2.8	2.9
149.5°	0.3	0.5	1.2	1.8	2.4	2.8	2.8
150°	0.3	0.5	1.2	1.8	2.4	2.8	2.8
150.5°	0.3	0.6	1.2	1.8	2.4	2.8	2.8
151°	0.4	0.6	1.2	1.8	2.4	2.8	2.8
151.5°	0.4	0.7	1.2	1.8	2.5	2.8	2.8
152°	0.4	0.7	1.2	1.8	2.5	2.8	2.8
152.5°	0.4	0.7	1.3	1.8	2.5	2.8	2.8
153°	0.5	0.7	1.3	1.8	2.5	2.8	2.8
153.5°	0.5	0.7	1.3	1.8	2.5	2.8	2.8
154°	0.5	0.7	1.3	1.8	2.5	2.8	2.8
154.5°	0.5	0.8	1.3	1.9	2.5	2.8	2.8
155°	0.6	0.8	1.4	1.9	2.5	2.8	2.7
155.5°	0.6	0.8	1.4	1.9	2.5	2.8	2.7
156°	0.6	0.9	1.4	1.9	2.5	2.8	2.7
156.5°	0.6	0.9	1.4	1.9	2.5	2.8	2.7
157°	0.6	0.9	1.4	1.9	2.5	2.8	2.7

REPORT NUMBER: P1197020

CATALOG NUMBER: AWP28S-BZ-LOW-4000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	0.7	0.9	1.4	1.9	2.5	2.8	2.7
158°	0.7	0.9	1.5	1.9	2.5	2.8	2.7
158.5°	0.7	1.0	1.5	2.0	2.5	2.8	2.7
159°	0.7	1.0	1.5	2.0	2.5	2.8	2.7
159.5°	0.7	1.0	1.5	2.0	2.5	2.8	2.6
160°	0.8	1.0	1.5	2.0	2.5	2.8	2.6
160.5°	0.8	1.1	1.5	2.0	2.5	2.8	2.6
161°	0.8	1.1	1.6	2.0	2.5	2.8	2.6
161.5°	0.8	1.1	1.6	2.0	2.5	2.7	2.6
162°	0.8	1.1	1.6	2.0	2.5	2.7	2.6
162.5°	0.9	1.1	1.6	2.0	2.5	2.7	2.6
163°	0.9	1.1	1.6	2.1	2.5	2.7	2.5
163.5°	0.9	1.2	1.7	2.1	2.5	2.7	2.5
164°	0.9	1.2	1.7	2.1	2.5	2.7	2.5
164.5°	0.9	1.2	1.7	2.1	2.5	2.7	2.5
165°	1.0	1.2	1.7	2.1	2.5	2.7	2.5
165.5°	1.0	1.3	1.7	2.1	2.5	2.7	2.5
166°	1.0	1.3	1.7	2.1	2.5	2.7	2.5
166.5°	1.0	1.3	1.8	2.1	2.5	2.6	2.4
167°	1.1	1.3	1.8	2.1	2.5	2.6	2.4
167.5°	1.1	1.4	1.8	2.1	2.5	2.6	2.4
168°	1.1	1.4	1.8	2.2	2.5	2.6	2.4
168.5°	1.1	1.4	1.8	2.2	2.5	2.6	2.4
169°	1.2	1.4	1.9	2.2	2.5	2.6	2.4
169.5°	1.2	1.4	1.9	2.2	2.5	2.6	2.3
170°	1.2	1.5	1.9	2.2	2.5	2.6	2.3
170.5°	1.2	1.5	1.9	2.2	2.4	2.6	2.3
171°	1.3	1.5	1.9	2.2	2.4	2.6	2.3
171.5°	1.3	1.6	1.9	2.2	2.4	2.5	2.2
172°	1.3	1.6	1.9	2.2	2.4	2.5	2.2
172.5°	1.4	1.6	2.0	2.2	2.4	2.5	2.2
173°	1.4	1.6	2.0	2.2	2.4	2.5	2.2
173.5°	1.4	1.6	2.0	2.2	2.4	2.5	2.2
174°	1.4	1.7	2.0	2.2	2.4	2.4	2.1
174.5°	1.5	1.7	2.1	2.3	2.4	2.4	2.1
175°	1.5	1.7	2.1	2.3	2.4	2.4	2.1
175.5°	1.5	1.8	2.1	2.3	2.4	2.4	2.0
176°	1.5	1.8	2.1	2.3	2.4	2.4	2.0
176.5°	1.6	1.8	2.1	2.3	2.4	2.4	2.0
177°	1.6	1.8	2.1	2.3	2.4	2.4	1.9
177.5°	1.6	1.8	2.1	2.3	2.4	2.4	1.9
178°	1.7	1.9	2.1	2.3	2.3	2.4	1.9
178.5°	1.7	1.9	2.1	2.3	2.3	2.3	1.9
179°	1.7	1.9	2.1	2.3	2.3	2.3	1.9
179.5°	1.7	1.9	2.1	2.3	2.3	2.3	1.8



REPORT NUMBER: P1197020
CATALOG NUMBER: AWPf28S-BZ-LOW-4000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	2.3	2.3	2.3	2.3	2.3	2.3	2.3

(END OF REPORT)