

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: P1197023

Luminaire Tested: AWPf28S-BZ-LOW-5000K-POSITION 30

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197023
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-5000K-POSITION 30
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 5000K
Ballast/Driver: -

Summary

Lumens per Lamp: 3521 (1 lamp)
Luminaire Lumens: 2741.3 lumens
Efficiency: 77.9%
Efficacy: 130.5 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
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

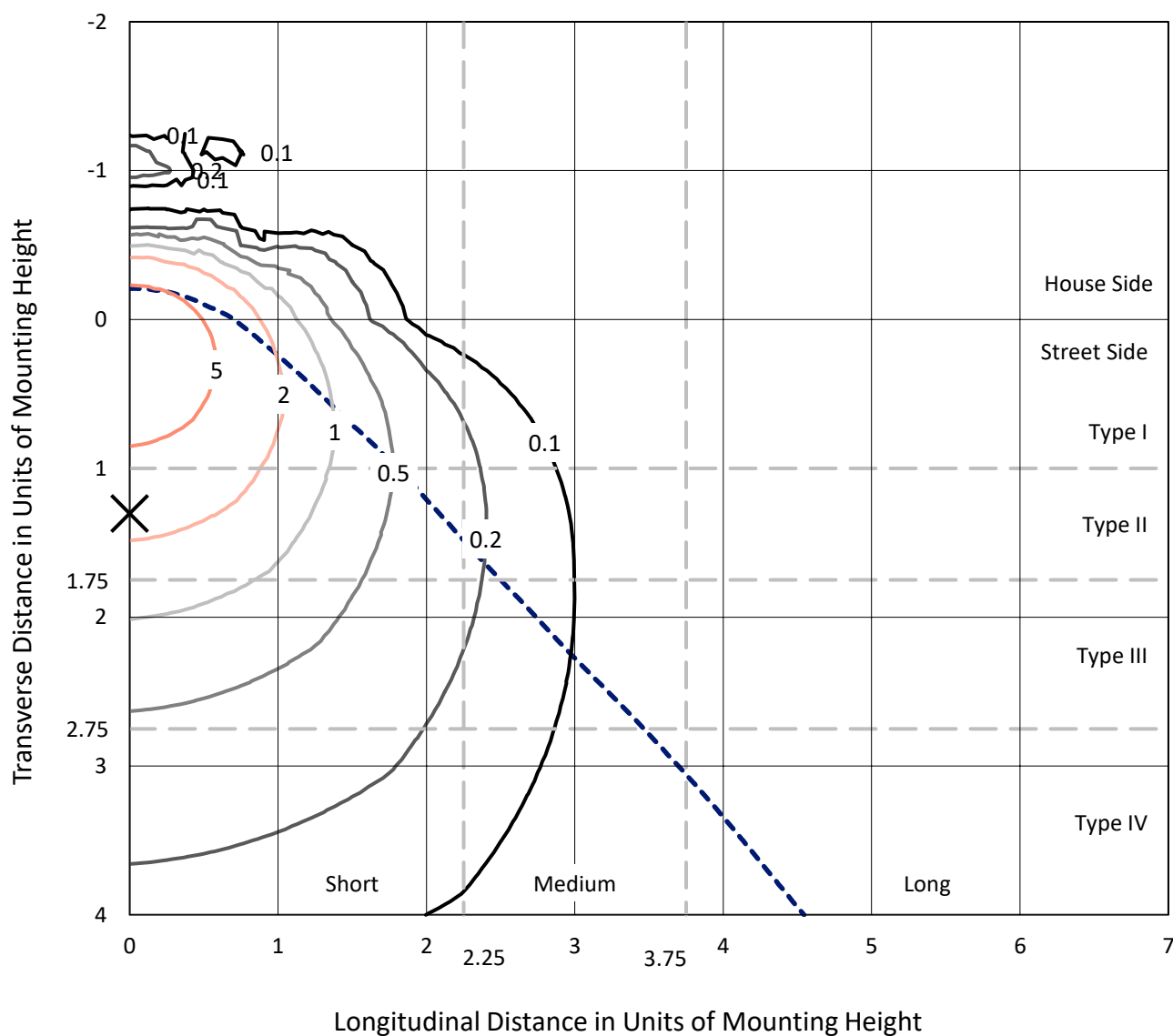
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

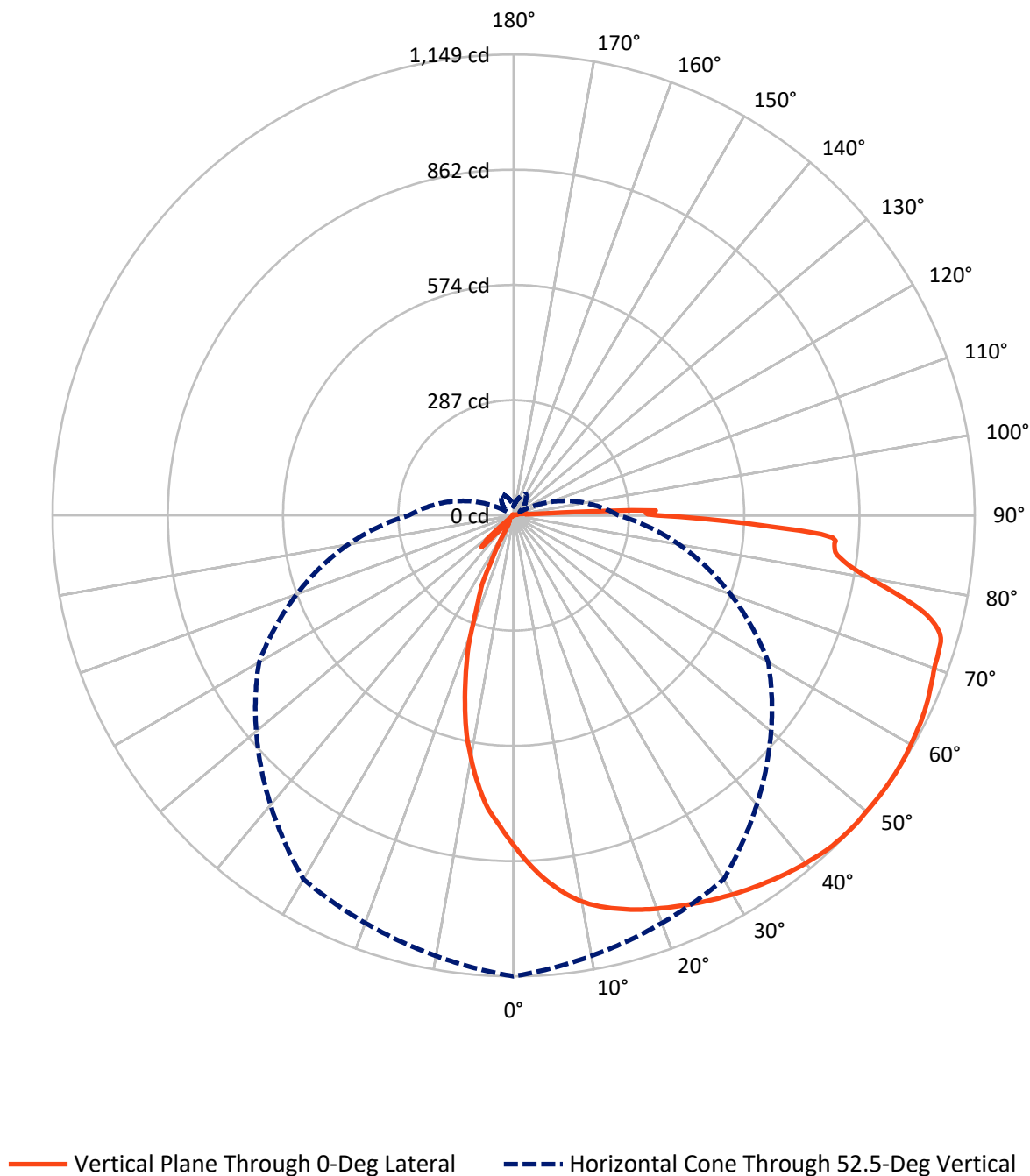


Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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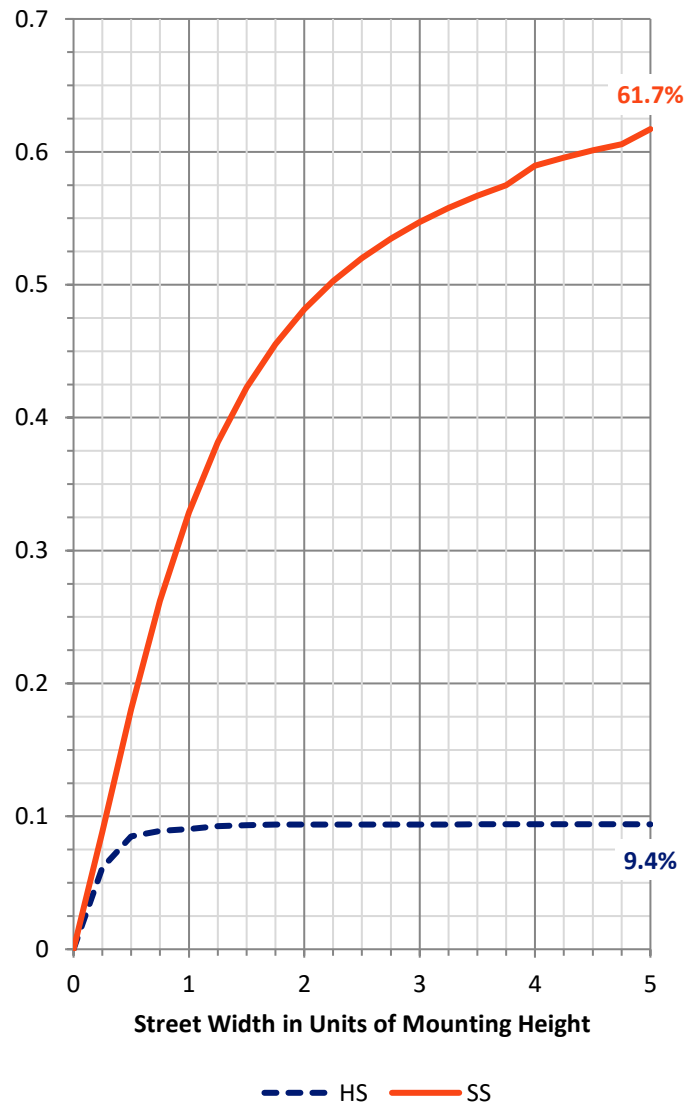
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	335.5	6.3	341.8
	% Lamp	9.5	0.2	9.7
Street Side	Lumens	2352.3	47.1	2399.5
	% Lamp	66.8	1.3	68.1
Total	Lumens	2687.8	53.5	2741.3
	% Lamp	76.3	1.5	77.9

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	78.6	2.9	2.2
10°-20°	217.4	7.9	6.2
20°-30°	304.8	11.1	8.7
30°-40°	347.3	12.7	9.9
40°-50°	376.1	13.7	10.7
50°-60°	387.1	14.1	11.0
60°-70°	369.3	13.5	10.5
70°-80°	347.2	12.7	9.9
80°-90°	260.0	9.5	7.4
90°-100°	44.0	1.6	1.3
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°	2687.8	98.0	76.3
0°-180°	2741.3	100.0	77.9

Coefficient of Utilization



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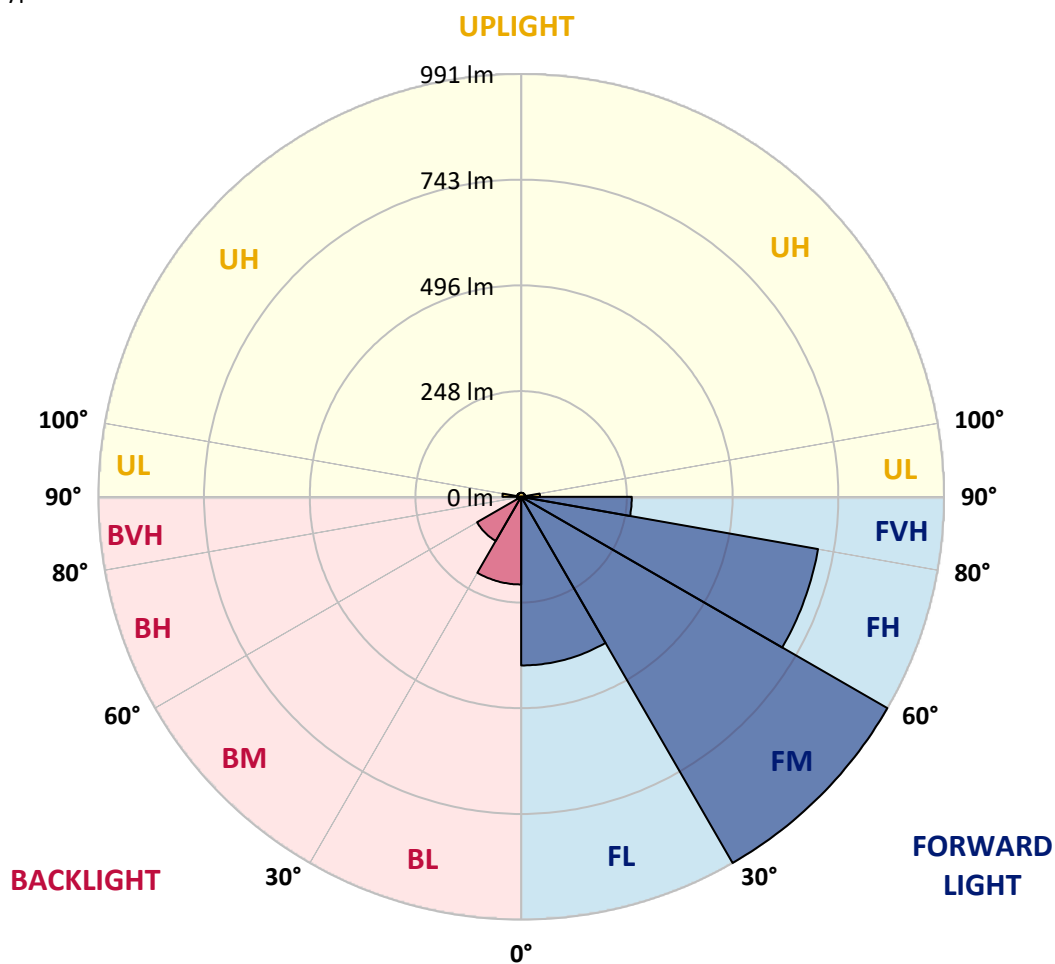
CATALOG NUMBER: AWP28S-BZ-LOW-5000K-POSITION 30

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	395.3	11.2			
FM	(30°-60°)	991.2	28.2			
FH	(60°-80°)	706.6	20.1			G1/1800
FVH	(80°-90°)	259.2	7.4			G3/500
BL	(0°-30°)	205.5	5.8	B1/500		
BM	(30°-60°)	119.3	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°)	44.0	1.3		U2/50	
UH	(100°-180°)	9.5	0.3		U1/10	
Trapped Light		779.7	22.1			

BUG Rating: B1-U2-G3

Type IV Short



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CATALOG NUMBER: AWP28S-BZ-LOW-5000K-POSITION 30

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	831.1	831.1	831.1	831.1	831.1	831.1	831.1
0.5°	840.6	839.3	835.9	831.0	826.4	822.9	822.1
1°	850.0	847.3	840.7	830.9	821.7	814.8	812.6
1.5°	859.2	855.2	845.4	830.7	817.0	806.7	803.4
2°	868.4	863.0	849.6	830.4	812.3	798.7	793.9
2.5°	877.7	870.9	853.9	830.1	807.5	790.5	785.0
3°	886.4	878.3	858.2	829.7	802.5	782.6	775.8
3.5°	895.4	885.7	862.6	829.2	797.3	774.5	767.1
4°	903.5	893.0	866.7	828.6	792.2	766.8	758.6
4.5°	911.2	899.8	870.4	828.0	787.2	759.8	750.5
5°	918.8	906.0	874.4	827.0	782.0	752.3	742.6
5.5°	926.4	912.4	878.0	826.0	776.7	745.0	733.6
6°	933.7	919.0	881.8	825.1	771.4	736.5	723.4
6.5°	940.5	924.7	885.3	824.0	766.2	727.5	712.7
7°	947.4	930.4	888.7	823.0	761.0	717.8	700.8
7.5°	954.2	936.1	891.8	821.6	755.7	707.1	688.5
8°	960.1	941.6	894.7	820.2	750.9	696.0	676.2
8.5°	966.1	946.9	897.7	818.6	745.7	685.2	664.4
9°	971.8	951.9	900.6	817.2	740.3	674.7	651.6
9.5°	977.1	956.8	903.7	815.5	735.0	663.1	638.3
10°	981.8	961.4	906.7	813.8	729.2	651.4	625.7
10.5°	986.5	966.0	909.3	812.0	723.1	639.5	612.3
11°	990.7	970.0	912.0	810.1	716.5	627.8	599.3
11.5°	994.7	973.8	914.6	808.0	710.0	615.8	586.6
12°	998.6	977.7	917.1	805.8	702.8	603.9	574.3
12.5°	1002.3	981.0	919.3	803.4	695.4	592.0	560.4
13°	1005.6	984.1	921.3	800.9	687.5	580.7	546.1
13.5°	1008.9	986.8	923.2	798.4	679.3	568.5	530.7
14°	1012.3	989.4	925.1	795.8	671.1	556.1	515.1
14.5°	1015.2	992.0	926.8	793.0	662.8	542.3	500.1
15°	1018.3	994.5	928.3	790.2	654.6	528.8	484.0
15.5°	1021.5	997.0	929.6	787.2	645.9	514.6	468.8
16°	1024.6	999.6	930.7	784.0	636.9	500.2	452.9
16.5°	1027.4	1001.6	931.8	780.6	628.2	485.3	436.7
17°	1030.2	1003.8	932.8	776.9	619.5	470.7	421.7
17.5°	1032.8	1006.0	933.5	773.3	610.2	455.7	406.6
18°	1035.5	1007.9	933.9	769.3	601.0	440.9	392.0
18.5°	1038.6	1009.7	934.4	765.4	591.2	426.3	376.4
19°	1041.0	1011.5	934.5	761.4	581.6	411.8	360.7
19.5°	1043.1	1013.4	934.6	757.4	571.9	398.0	345.3
20°	1045.6	1014.9	934.7	753.3	562.5	384.3	326.4
20.5°	1048.1	1016.4	934.7	749.3	553.4	370.3	306.0
21°	1050.5	1018.1	934.5	744.8	544.3	356.5	287.6
21.5°	1052.9	1019.8	934.2	740.0	534.6	341.7	271.4
22°	1055.3	1021.0	933.6	735.2	524.7	327.2	256.5

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CATALOG NUMBER: AWP28S-BZ-LOW-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	1057.9	1022.4	932.9	730.1	514.0	309.4	243.0
23°	1060.5	1023.7	932.2	724.8	502.6	291.5	231.0
23.5°	1062.9	1024.9	931.0	719.7	490.8	274.4	220.3
24°	1065.1	1026.4	929.8	714.3	479.7	259.3	209.6
24.5°	1067.3	1027.5	928.5	709.1	468.4	245.8	199.0
25°	1069.7	1029.1	927.5	703.9	455.8	233.8	188.3
25.5°	1072.2	1030.5	925.9	698.5	443.2	223.6	172.8
26°	1074.6	1032.0	924.1	692.9	430.6	213.5	153.1
26.5°	1077.0	1033.3	922.1	687.3	418.1	203.4	131.7
27°	1079.5	1034.5	920.0	681.8	405.5	193.3	114.4
27.5°	1081.6	1035.6	917.6	676.2	393.6	182.2	100.0
28°	1084.1	1037.0	915.1	670.8	381.2	168.8	86.8
28.5°	1086.2	1038.1	912.5	665.2	368.9	150.8	73.5
29°	1088.5	1039.2	909.8	659.2	356.8	131.8	57.6
29.5°	1091.0	1040.5	907.3	652.9	344.7	114.4	42.2
30°	1093.5	1041.4	904.5	646.4	333.0	99.5	31.8
30.5°	1095.6	1042.4	901.8	640.3	321.3	87.3	27.5
31°	1097.6	1043.7	899.1	633.9	309.9	75.3	25.8
31.5°	1099.9	1044.6	896.3	627.7	298.4	62.4	25.0
32°	1101.9	1045.3	893.6	621.2	287.3	48.6	24.3
32.5°	1104.1	1046.4	890.7	614.4	276.8	37.3	23.7
33°	1106.1	1047.3	888.1	607.2	266.6	30.3	23.1
33.5°	1108.3	1048.1	885.4	599.9	255.7	27.2	22.4
34°	1110.3	1048.9	882.6	592.8	245.3	25.8	21.7
34.5°	1112.4	1049.6	879.6	585.3	235.2	24.9	20.9
35°	1114.7	1050.2	876.5	577.2	225.4	24.2	20.0
35.5°	1116.6	1051.0	873.7	569.4	214.9	23.6	19.2
36°	1118.8	1051.5	870.8	561.4	203.7	23.1	18.8
36.5°	1120.9	1052.0	867.7	553.3	192.4	22.6	18.5
37°	1122.8	1052.5	864.5	544.9	182.0	22.1	18.4
37.5°	1124.7	1052.9	861.2	536.7	172.1	21.7	18.2
38°	1126.5	1053.4	857.8	528.0	162.3	21.3	18.0
38.5°	1128.1	1053.8	854.5	519.2	152.0	21.0	17.6
39°	1130.1	1054.2	851.1	510.5	139.7	20.7	17.3
39.5°	1131.9	1054.8	847.8	501.9	125.1	20.2	16.9
40°	1133.5	1055.1	844.0	492.7	108.4	19.5	16.6
40.5°	1135.0	1055.1	840.3	483.8	90.9	18.9	16.1
41°	1136.7	1055.2	836.5	474.7	74.6	18.3	15.9
41.5°	1138.6	1055.6	832.9	465.8	61.5	17.6	15.8
42°	1140.2	1056.0	829.7	456.8	51.8	16.8	15.9
42.5°	1141.4	1056.4	825.7	447.8	44.8	16.1	16.7
43°	1143.0	1056.5	821.8	438.9	40.3	15.6	18.9
43.5°	1144.0	1056.4	818.2	430.2	37.1	15.1	27.3
44°	1144.7	1056.3	814.0	421.2	34.4	14.7	46.3
44.5°	1145.5	1056.1	809.9	412.4	32.3	14.0	63.7

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	1146.3	1055.8	805.7	403.4	30.5	13.6	77.7
45.5°	1146.8	1055.3	801.4	394.5	29.2	13.3	101.2
46°	1147.5	1054.9	797.0	385.2	28.0	13.0	112.0
46.5°	1147.9	1054.7	792.5	375.9	26.4	12.8	104.5
47°	1148.3	1054.4	788.2	366.4	24.9	12.7	100.3
47.5°	1148.4	1054.1	783.6	357.4	23.9	12.6	98.0
48°	1148.3	1053.8	778.9	348.3	23.0	12.5	93.6
48.5°	1148.4	1053.2	774.2	339.0	22.2	12.5	87.7
49°	1148.1	1053.0	769.2	329.3	21.5	13.0	78.3
49.5°	1148.0	1052.7	764.2	319.7	20.9	14.3	68.8
50°	1148.1	1051.9	759.3	310.3	20.3	19.3	58.8
50.5°	1148.3	1051.3	754.0	300.6	19.7	29.1	47.6
51°	1148.4	1050.4	748.8	290.9	19.1	39.7	37.9
51.5°	1148.4	1049.4	743.6	281.1	18.4	43.7	31.1
52°	1148.8	1048.1	738.0	271.5	17.8	52.2	26.3
52.5°	1148.9	1047.1	732.5	261.5	17.3	61.8	22.5
53°	1148.8	1045.5	726.9	251.1	16.8	56.9	18.9
53.5°	1148.8	1044.2	721.1	240.9	16.3	52.8	15.9
54°	1148.9	1043.0	715.6	230.4	15.8	50.7	13.0
54.5°	1148.7	1042.0	710.0	219.5	15.4	49.0	10.9
55°	1148.6	1041.3	704.2	208.6	15.0	47.8	9.3
55.5°	1148.3	1040.4	698.3	197.7	14.6	46.4	8.1
56°	1147.7	1039.5	692.3	186.7	14.2	44.6	7.2
56.5°	1147.4	1038.7	686.6	175.4	13.9	42.7	6.4
57°	1146.9	1037.8	680.4	163.9	13.6	40.4	5.8
57.5°	1146.2	1037.1	674.3	153.1	13.2	37.9	5.4
58°	1145.5	1036.4	668.6	143.3	12.8	35.3	5.0
58.5°	1144.7	1035.3	662.5	134.3	12.4	32.5	4.6
59°	1143.9	1034.4	656.1	127.0	12.0	29.7	4.2
59.5°	1143.1	1033.2	650.0	120.8	11.5	26.8	3.8
60°	1142.1	1032.2	643.9	116.4	11.0	23.7	3.3
60.5°	1140.8	1030.8	638.2	113.6	10.5	20.7	2.8
61°	1140.2	1029.2	632.3	111.5	10.0	18.0	2.3
61.5°	1139.4	1027.4	626.6	104.8	9.6	15.6	2.0
62°	1138.9	1025.4	620.4	91.3	8.9	13.3	1.9
62.5°	1137.8	1023.5	614.0	75.4	8.3	10.7	1.9
63°	1136.7	1021.4	608.2	63.5	7.9	7.4	1.8
63.5°	1135.5	1019.0	602.0	57.2	7.4	3.9	1.7
64°	1134.3	1016.6	596.0	54.4	7.1	2.0	1.5
64.5°	1132.7	1014.2	589.5	52.6	6.7	1.3	1.3
65°	1131.2	1012.1	582.4	50.8	6.4	1.2	1.2
65.5°	1129.9	1009.6	575.9	49.2	6.0	1.2	1.0
66°	1128.1	1007.3	569.0	47.6	5.7	1.2	1.0
66.5°	1126.0	1005.1	562.3	46.2	5.4	1.2	1.0
67°	1124.0	1003.0	555.9	44.9	5.1	1.1	0.9

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	1122.1	1001.2	549.3	43.7	4.8	1.0	0.8
68°	1120.6	999.8	542.7	42.5	4.4	0.8	0.7
68.5°	1118.9	998.0	536.1	41.5	4.0	0.7	0.6
69°	1117.1	996.2	529.4	40.7	3.6	0.6	0.6
69.5°	1115.8	994.1	522.6	39.9	3.1	0.6	0.6
70°	1114.4	992.0	516.2	39.2	2.7	0.6	0.6
70.5°	1113.6	990.0	509.6	38.5	2.4	0.6	0.6
71°	1113.2	988.3	502.9	37.8	2.2	0.6	0.6
71.5°	1112.5	986.3	496.6	37.2	2.0	0.6	0.6
72°	1111.4	984.5	490.7	36.5	1.7	0.5	0.6
72.5°	1110.9	982.7	484.4	35.8	1.5	0.5	0.6
73°	1110.1	980.6	478.6	35.0	1.4	0.5	0.6
73.5°	1107.1	978.0	471.7	34.5	1.2	0.5	0.6
74°	1102.1	975.5	464.6	33.4	1.0	0.5	0.6
74.5°	1094.3	973.4	457.5	31.5	0.8	0.5	0.6
75°	1084.5	972.6	450.7	29.4	0.7	0.5	0.7
75.5°	1071.9	971.4	444.4	26.9	0.7	0.5	0.7
76°	1057.1	969.3	438.7	24.6	0.6	0.5	0.7
76.5°	1038.5	966.5	433.1	21.7	0.6	0.5	0.8
77°	1017.0	961.5	427.4	19.1	0.5	0.5	0.8
77.5°	993.9	954.8	421.7	17.3	0.5	0.5	0.8
78°	970.0	946.5	416.1	15.7	0.4	0.5	0.8
78.5°	945.3	935.5	411.6	14.3	0.4	0.5	0.9
79°	921.4	921.3	407.3	13.1	0.4	0.5	0.9
79.5°	898.6	905.4	403.2	11.9	0.4	0.5	0.9
80°	877.7	887.7	399.7	10.8	0.4	0.5	0.9
80.5°	861.0	871.8	396.2	10.0	0.4	0.5	0.9
81°	845.3	858.9	392.3	9.0	0.4	0.5	1.0
81.5°	833.0	851.2	388.4	8.1	0.4	0.5	1.0
82°	822.6	849.1	384.9	7.3	0.4	0.5	1.1
82.5°	812.4	850.9	382.6	6.7	0.4	0.6	1.1
83°	807.1	853.8	381.5	6.1	0.4	0.6	1.1
83.5°	804.3	857.0	382.1	5.5	0.4	0.6	1.2
84°	803.3	850.6	383.7	5.0	0.4	0.7	1.2
84.5°	802.9	831.4	386.1	4.6	0.4	0.7	1.2
85°	805.1	800.8	389.0	4.2	0.4	0.7	1.3
85.5°	796.9	758.2	391.2	3.9	0.5	0.7	1.3
86°	767.5	703.4	390.3	3.6	0.5	0.8	1.4
86.5°	713.8	639.5	388.8	3.3	0.5	0.8	1.4
87°	640.1	583.7	385.5	3.0	0.5	0.8	1.4
87.5°	583.4	534.1	375.6	2.7	0.5	0.9	1.5
88°	526.7	488.9	360.9	2.4	0.6	0.9	1.5
88.5°	470.0	442.6	341.6	2.2	0.6	0.9	1.6
89°	413.3	389.9	316.9	1.9	0.6	0.9	1.6
89.5°	357.2	368.4	287.4	1.7	0.6	1.0	1.6

REPORT NUMBER: P1197023

CATALOG NUMBER: AWP28S-BZ-LOW-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	334.1	375.7	254.7	1.4	0.6	1.0	1.7
90.5°	329.9	386.6	219.2	1.2	0.7	1.1	1.7
91°	348.0	368.7	184.1	1.1	0.7	1.1	1.8
91.5°	354.4	309.8	150.9	1.0	0.7	1.1	1.8
92°	294.3	221.0	124.7	0.9	0.7	1.2	1.8
92.5°	191.1	173.2	103.9	0.8	0.8	1.2	1.9
93°	120.7	126.5	84.6	0.7	0.8	1.2	1.9
93.5°	66.8	79.8	66.2	0.7	0.8	1.3	2.0
94°	36.8	33.1	52.0	0.6	0.8	1.3	2.0
94.5°	30.7	26.7	42.5	0.6	0.9	1.3	2.0
95°	30.9	24.3	37.9	0.5	0.9	1.4	2.0
95.5°	30.3	22.7	37.2	0.5	0.9	1.4	2.1
96°	29.4	21.9	38.9	0.5	1.0	1.4	2.1
96.5°	29.9	22.2	41.0	0.5	1.0	1.5	2.1
97°	32.8	23.3	43.9	0.5	1.0	1.5	2.2
97.5°	33.5	22.5	41.8	0.5	1.0	1.6	2.2
98°	30.5	20.6	33.3	0.5	1.1	1.6	2.2
98.5°	26.3	19.7	24.1	0.5	1.1	1.6	2.3
99°	23.3	18.9	17.3	0.5	1.1	1.7	2.3
99.5°	22.6	17.3	14.6	0.5	1.2	1.7	2.3
100°	22.5	16.4	12.3	0.5	1.2	1.7	2.3
100.5°	21.2	16.0	10.2	0.5	1.2	1.8	2.4
101°	19.9	15.8	8.8	0.5	1.2	1.8	2.4
101.5°	18.6	15.3	7.7	0.5	1.3	1.8	2.4
102°	16.9	14.3	6.5	0.5	1.3	1.8	2.5
102.5°	14.9	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°	10.8	8.6	3.6	0.5	1.4	1.9	2.5
104°	9.3	6.8	3.0	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	2.7
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	1.7	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: P1197023

CATALOG NUMBER: AWP28S-BZ-LOW-5000K-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	2.5	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	2.0	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	2.1	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	3.0
124°	0.0	0.0	0.3	1.0	2.1	2.7	3.0
124.5°	0.0	0.0	0.3	1.0	2.1	2.7	3.0
125°	0.0	0.0	0.3	1.0	2.1	2.7	3.0
125.5°	0.0	0.0	0.3	1.1	2.1	2.8	3.0
126°	0.0	0.0	0.3	1.1	2.2	2.8	3.0
126.5°	0.0	0.0	0.3	1.1	2.2	2.8	3.0
127°	0.0	0.0	0.3	1.1	2.2	2.8	3.0
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: P1197023

CATALOG NUMBER: AWP28S-BZ-LOW-5000K-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	0.7	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	1.0	1.6	2.4	2.9	3.0
144°	0.1	0.3	1.0	1.6	2.4	2.9	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	1.1	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	0.6	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	1.3	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	2.8
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: P1197023

CATALOG NUMBER: AWP28S-BZ-LOW-5000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	0.7	0.9	1.5	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	1.6	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°	1.0	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°	1.2	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°	1.3	1.5	1.9	2.2	2.4	2.6	2.3
171°	1.3	1.6	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	2.0	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	2.5	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°	1.6	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	2.2	2.3	2.4	2.4	1.9
178°	1.7	1.9	2.2	2.3	2.4	2.4	1.9
178.5°	1.7	1.9	2.2	2.3	2.3	2.4	1.9
179°	1.7	1.9	2.2	2.3	2.3	2.3	1.9
179.5°	1.7	1.9	2.2	2.3	2.3	2.3	1.8



REPORT NUMBER: P1197023
CATALOG NUMBER: AWPf28S-BZ-LOW-5000K-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)