

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: P1197026

Luminaire Tested: AWPf28S-BZ-LOW-3000K-POSITION 45

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197026
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 45
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 3000K
Ballast/Driver: -

Summary

Lumens per Lamp: 3422 (1 lamp)
Luminaire Lumens: 2586.9 lumens
Efficiency: 75.6%
Efficacy: 122.6 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: B0 - U3 - 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

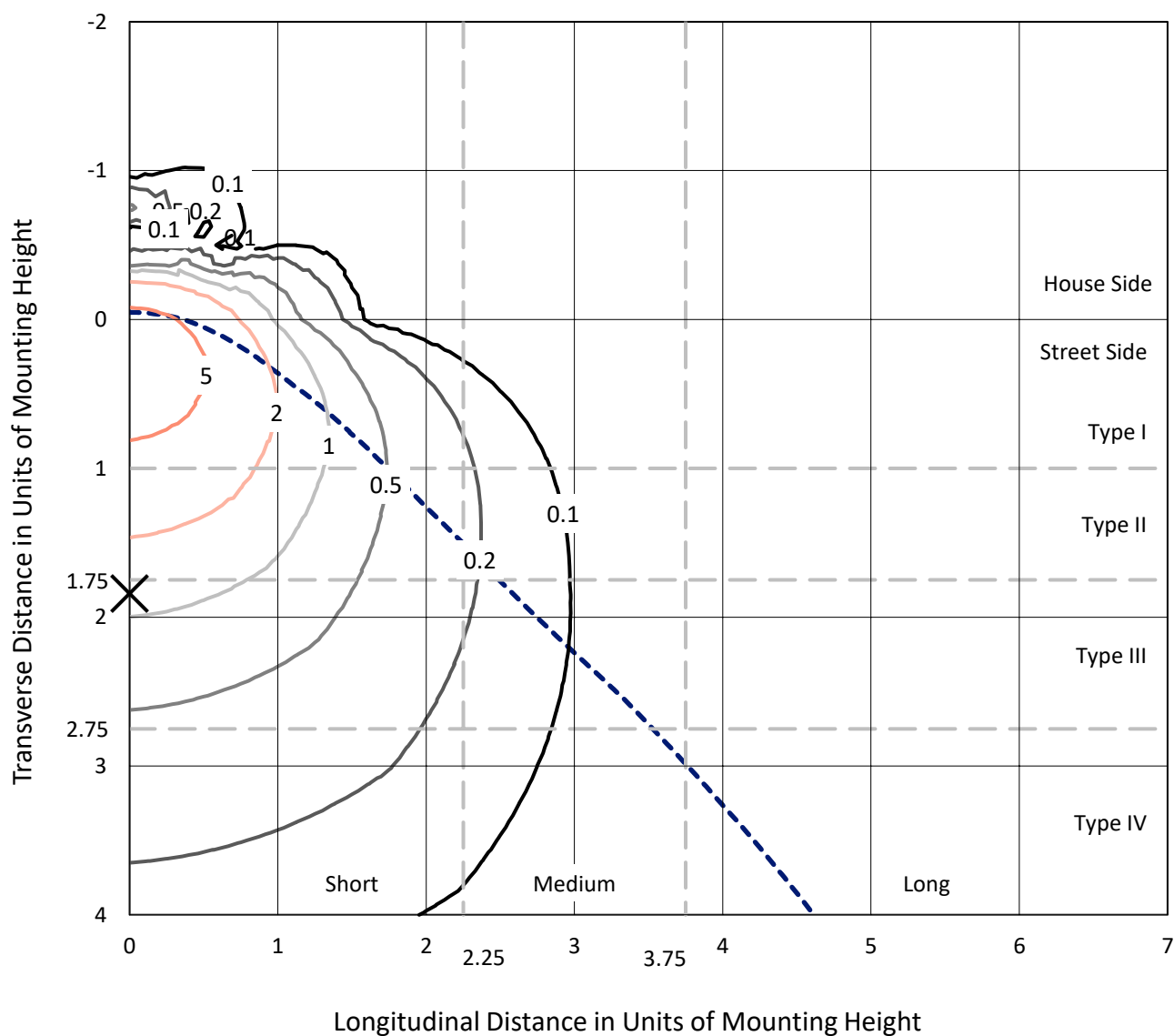
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

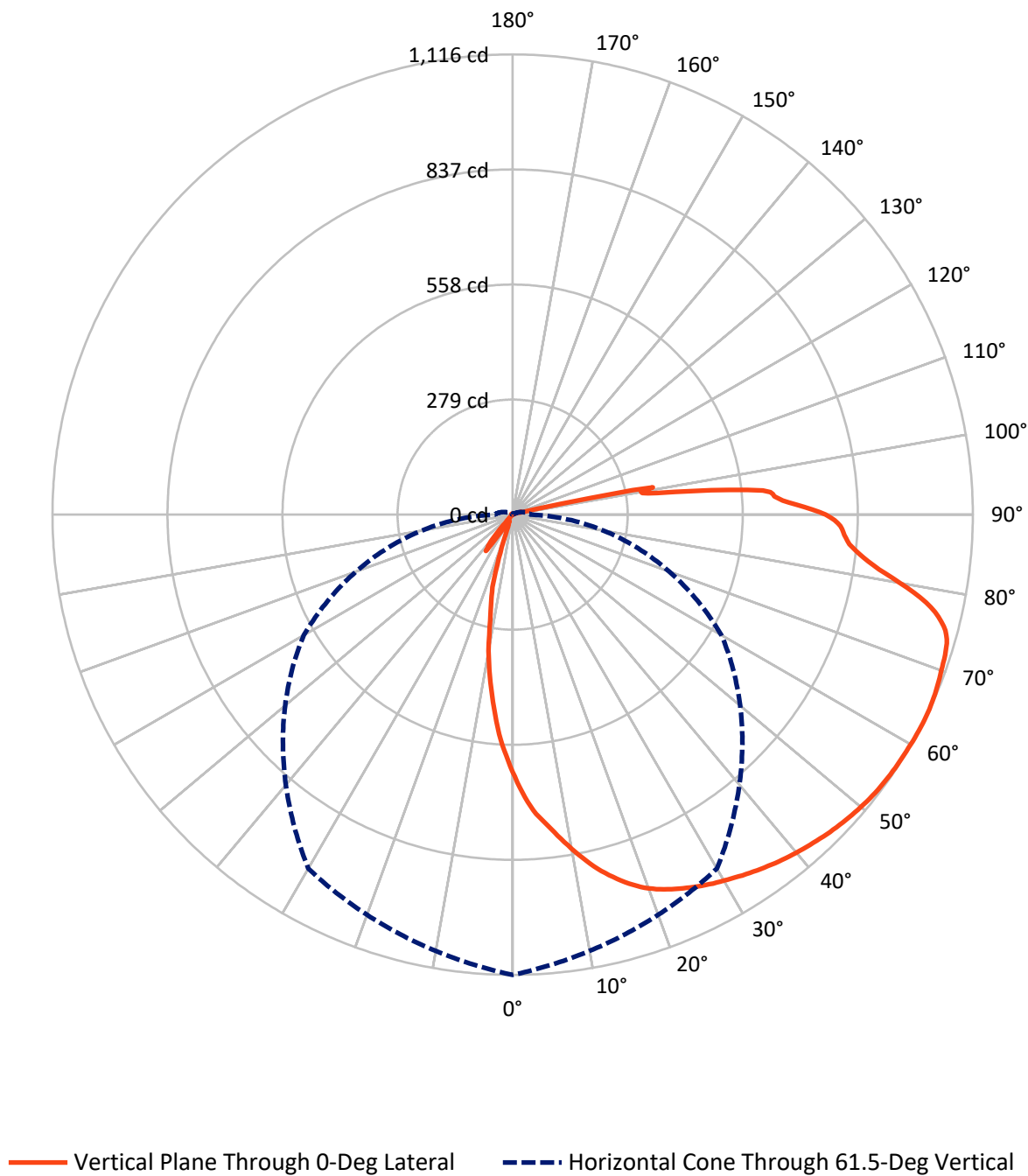


Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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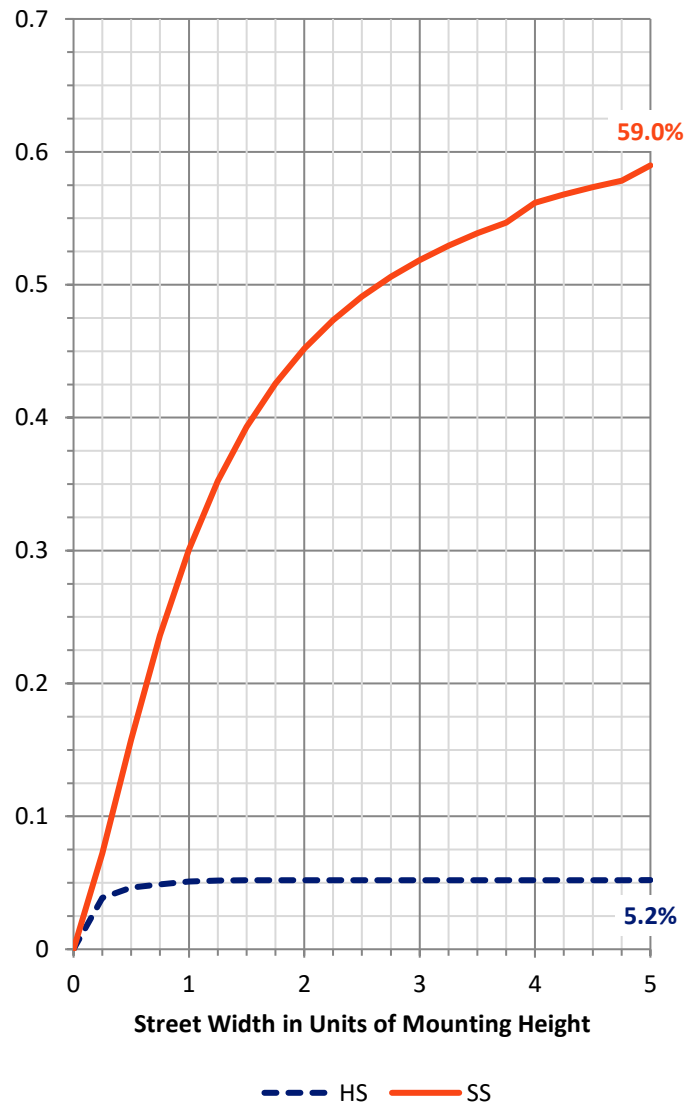
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	180.4	6.0	186.4
	% Lamp	5.3	0.2	5.4
Street Side	Lumens	2219.9	180.6	2400.4
	% Lamp	64.9	5.3	70.1
Total	Lumens	2400.3	186.6	2586.9
	% Lamp	70.1	5.5	75.6

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	58.9	2.3	1.7
10°-20°	159.9	6.2	4.7
20°-30°	231.9	9.0	6.8
30°-40°	291.3	11.3	8.5
40°-50°	336.0	13.0	9.8
50°-60°	348.1	13.5	10.2
60°-70°	352.4	13.6	10.3
70°-80°	342.3	13.2	10.0
80°-90°	279.3	10.8	8.2
90°-100°	166.7	6.4	4.9
100°-110°	14.1	0.5	0.4
110°-120°	1.6	0.1	0.0
120°-130°	1.0	0.0	0.0
130°-140°	1.0	0.0	0.0
140°-150°	0.9	0.0	0.0
150°-160°	0.7	0.0	0.0
160°-170°	0.4	0.0	0.0
170°-180°	0.2	0.0	0.0
0°-90°	2400.3	92.8	70.1
0°-180°	2586.9	100.0	75.6

Coefficient of Utilization



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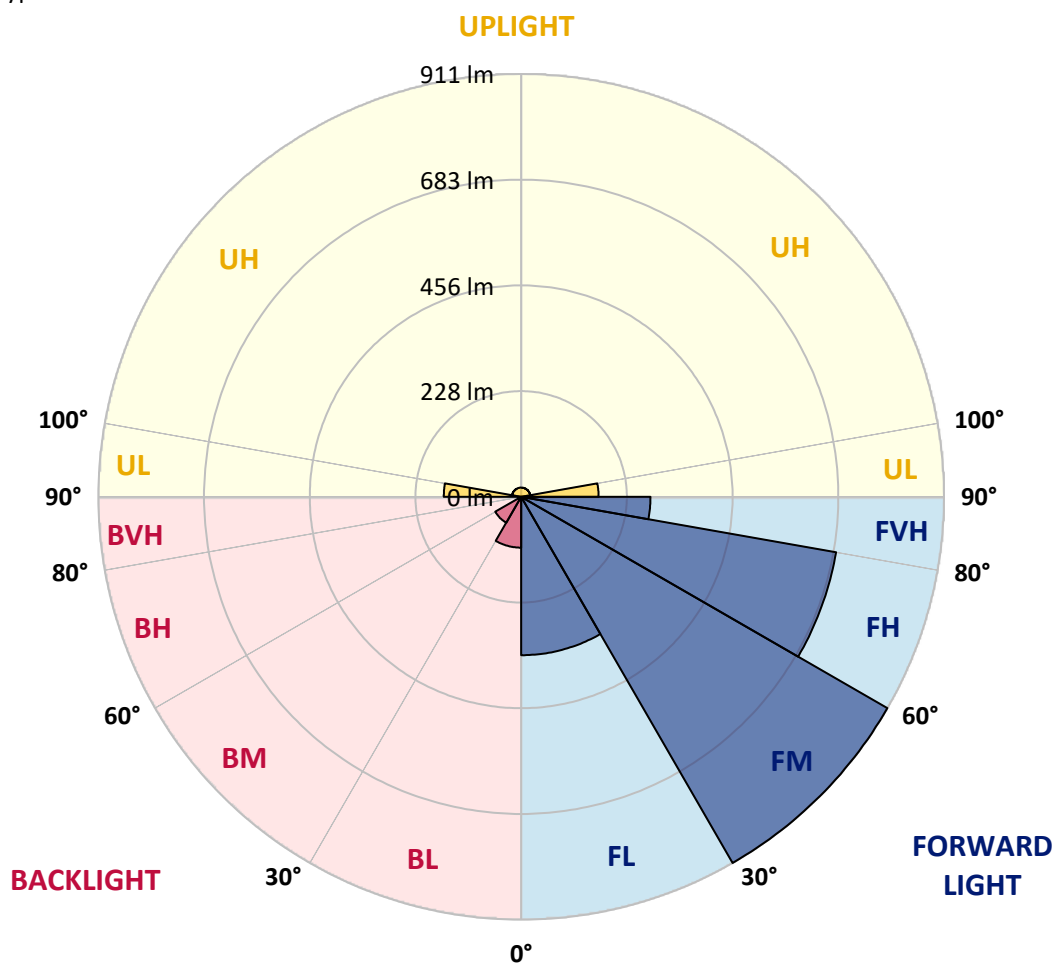
CATALOG NUMBER: AWP28S-BZ-LOW-3000K-POSITION 45

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	341.2	10.0			
FM	(30°-60°)	911.0	26.6			
FH	(60°-80°)	689.0	20.1			G1/1800
FVH	(80°-90°)	278.6	8.1			G3/500
BL	(0°-30°)	109.6	3.2	B0/110		
BM	(30°-60°)	64.4	1.9	B0/220		
BH	(60°-80°)	5.7	0.2	B0/110		G0/110
BVH	(80°-90°)	0.7	0.0			G0/10
UL	(90°-100°)	166.7	4.9		U3/500	
UH	(100°-180°)	19.9	0.6		U2/50	
Trapped Light		835.1	24.4			

BUG Rating: B0-U3-G3

Type IV Short



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CATALOG NUMBER: AWP28S-BZ-LOW-3000K-POSITION 45

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	634.4	634.4	634.4	634.4	634.4	634.4	634.4
0.5°	649.5	651.6	644.0	635.6	625.1	613.0	623.7
1°	661.7	661.9	650.4	635.5	618.9	602.1	611.1
1.5°	673.4	672.1	656.5	635.3	612.1	590.7	598.3
2°	685.3	682.5	661.8	634.8	605.6	579.8	585.5
2.5°	697.5	692.5	667.4	634.5	599.0	569.1	573.3
3°	707.9	702.0	673.1	633.9	592.1	558.2	560.5
3.5°	718.5	711.4	678.8	633.4	585.3	546.7	547.0
4°	727.6	719.5	684.3	632.8	578.7	534.6	532.8
4.5°	735.6	727.0	689.8	632.2	571.9	521.8	517.6
5°	743.5	733.7	694.6	631.4	565.2	508.2	502.6
5.5°	751.4	740.1	699.2	630.5	558.5	495.2	487.2
6°	759.6	746.8	703.8	629.4	551.3	481.8	471.7
6.5°	768.1	753.9	708.2	628.3	544.0	468.0	456.8
7°	777.0	761.1	712.3	627.1	536.3	454.8	441.3
7.5°	785.9	768.0	716.1	625.9	528.2	441.1	425.8
8°	795.0	775.4	719.3	624.6	520.3	427.5	410.7
8.5°	804.1	782.9	722.3	623.1	511.9	414.4	396.3
9°	812.9	790.4	725.2	621.6	503.4	400.8	381.8
9.5°	822.1	798.2	728.0	620.1	494.6	388.0	366.5
10°	831.1	805.5	730.7	618.2	485.5	375.4	351.0
10.5°	840.0	813.0	733.5	616.2	476.5	362.3	335.6
11°	848.8	820.4	736.4	614.2	467.5	348.5	315.8
11.5°	857.5	827.7	738.9	612.1	458.2	335.2	297.0
12°	866.4	834.7	741.8	610.1	448.8	320.4	279.1
12.5°	874.7	841.9	744.5	607.9	438.6	303.7	263.4
13°	882.8	849.0	747.3	605.5	428.4	286.3	249.2
13.5°	890.2	855.9	750.1	603.0	418.2	270.5	236.3
14°	897.4	862.9	752.6	600.4	408.0	256.4	225.2
14.5°	904.9	869.4	755.5	597.7	397.8	243.7	214.4
15°	911.7	875.6	758.4	594.8	388.6	231.9	203.6
15.5°	918.6	881.8	761.4	591.6	378.8	220.6	192.9
16°	925.2	887.8	764.1	588.6	369.6	211.5	182.1
16.5°	931.9	893.8	766.8	585.6	360.4	202.3	165.6
17°	937.9	899.6	769.6	582.5	351.0	193.1	145.8
17.5°	943.5	904.8	772.2	579.4	342.0	183.9	125.9
18°	949.2	910.1	774.5	575.5	332.6	171.9	109.9
18.5°	954.5	915.3	776.5	571.6	322.8	157.2	95.9
19°	959.5	920.2	778.6	567.6	312.8	139.4	83.9
19.5°	964.1	924.9	780.7	563.5	302.8	122.3	69.7
20°	968.5	929.5	782.5	559.2	293.1	106.8	53.7
20.5°	972.5	933.5	784.3	555.0	283.8	94.3	39.5
21°	976.0	937.5	786.2	550.9	273.6	83.1	31.6
21.5°	979.8	941.2	788.0	546.6	262.2	71.9	28.3
22°	983.1	944.6	789.5	542.2	250.9	59.0	26.8

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CATALOG NUMBER: AWP28S-BZ-LOW-3000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	986.3	947.9	791.2	538.1	240.1	45.6	26.0
23°	989.7	951.0	792.7	533.6	229.8	34.6	25.2
23.5°	992.7	953.3	794.2	529.1	220.6	28.5	24.4
24°	995.7	955.9	795.5	524.5	212.3	25.9	23.7
24.5°	998.5	958.1	796.7	519.8	204.0	24.8	23.0
25°	1001.7	960.2	797.7	515.1	196.2	24.1	22.2
25.5°	1004.4	962.3	798.4	510.2	188.6	23.5	21.4
26°	1007.3	964.3	799.2	505.5	180.9	23.2	20.4
26.5°	1009.8	966.1	799.8	500.8	173.1	22.8	19.7
27°	1012.4	967.8	800.4	495.9	166.0	22.5	19.2
27.5°	1015.1	969.3	800.5	490.8	158.4	22.2	18.9
28°	1017.8	970.7	800.6	485.4	149.3	21.9	18.8
28.5°	1020.1	972.0	800.7	480.1	138.1	21.5	18.6
29°	1022.3	973.1	800.7	474.5	125.2	20.9	18.3
29.5°	1024.7	974.3	800.8	468.6	110.9	20.3	17.9
30°	1027.0	975.5	800.9	463.0	96.8	19.7	17.5
30.5°	1029.4	976.6	800.3	457.2	83.9	19.1	17.1
31°	1032.0	977.6	800.0	451.1	72.4	18.4	16.7
31.5°	1034.3	978.9	799.8	445.0	62.7	17.8	16.2
32°	1037.0	979.8	799.3	438.6	54.5	17.3	15.9
32.5°	1039.4	980.8	798.8	432.5	48.4	16.7	15.6
33°	1041.8	981.8	798.5	426.4	43.2	16.3	15.7
33.5°	1044.0	982.6	798.1	420.3	39.4	16.0	16.2
34°	1046.4	983.4	797.7	413.8	36.1	15.6	18.8
34.5°	1048.9	984.5	796.9	407.0	33.2	15.4	31.0
35°	1051.2	985.6	796.0	400.2	29.9	15.2	51.1
35.5°	1053.2	986.6	794.7	393.2	27.3	14.9	68.1
36°	1055.6	987.7	793.4	386.2	25.6	14.6	82.3
36.5°	1057.7	988.9	792.1	379.0	24.4	14.5	107.6
37°	1059.9	990.0	790.6	371.9	23.4	14.3	109.2
37.5°	1061.7	991.2	789.0	364.5	22.8	14.0	101.4
38°	1063.9	992.0	787.2	357.2	22.1	13.7	98.5
38.5°	1066.0	993.0	785.3	349.7	21.5	13.6	95.6
39°	1068.2	994.3	783.4	342.3	20.8	13.6	90.9
39.5°	1070.1	995.3	781.0	334.7	20.2	14.0	83.9
40°	1071.8	996.1	778.6	326.9	19.6	16.3	74.4
40.5°	1073.9	996.9	775.9	319.1	19.2	24.0	65.2
41°	1075.6	997.7	773.4	310.9	18.9	36.5	54.3
41.5°	1077.3	998.3	770.8	303.1	18.7	45.8	43.4
42°	1079.3	999.0	767.8	294.7	18.4	49.5	34.6
42.5°	1081.1	999.4	764.7	285.9	18.0	61.7	28.9
43°	1082.8	999.6	761.7	277.8	17.6	69.8	24.7
43.5°	1084.8	999.9	758.3	269.4	17.1	62.6	21.2
44°	1086.6	1000.1	754.7	261.5	16.6	58.9	18.0
44.5°	1088.2	1000.2	751.2	253.4	16.1	56.7	14.9

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CATALOG NUMBER: AWP28S-BZ-LOW-3000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	1089.7	1000.5	747.4	244.8	15.6	54.9	12.4
45.5°	1091.5	1000.6	743.7	236.2	15.3	53.2	10.5
46°	1093.0	1000.7	739.7	227.6	14.9	51.1	9.2
46.5°	1094.5	1001.0	735.4	218.8	14.6	48.7	8.1
47°	1095.9	1000.8	731.4	210.4	14.3	46.1	7.3
47.5°	1097.1	1001.1	727.1	202.0	14.0	43.7	6.6
48°	1098.6	1001.1	722.6	193.6	13.7	41.2	6.1
48.5°	1100.0	1001.4	718.3	185.2	13.3	38.5	5.7
49°	1101.2	1001.5	714.0	177.6	12.9	35.1	5.3
49.5°	1102.4	1001.2	709.4	170.0	12.5	31.8	4.9
50°	1103.6	1001.1	705.2	162.9	12.0	28.4	4.5
50.5°	1105.0	1001.2	700.7	156.6	11.6	24.9	4.0
51°	1106.2	1001.0	696.3	150.9	11.2	22.0	3.5
51.5°	1107.0	1000.8	692.0	145.6	10.9	19.5	3.0
52°	1108.3	1000.6	687.3	141.0	10.5	17.3	2.6
52.5°	1108.9	1000.2	682.8	136.7	10.1	15.3	2.3
53°	1109.5	999.6	678.4	132.2	9.7	13.4	2.2
53.5°	1110.2	999.1	673.6	127.2	9.4	11.6	2.2
54°	1110.8	998.5	668.9	122.6	9.0	10.0	2.1
54.5°	1111.4	997.5	664.1	117.8	8.7	7.7	2.0
55°	1111.9	996.9	659.3	112.0	8.4	4.4	1.7
55.5°	1112.1	996.3	654.4	104.0	8.1	2.4	1.6
56°	1112.5	995.6	649.2	93.5	7.8	1.7	1.4
56.5°	1112.8	995.2	643.8	81.1	7.5	1.6	1.4
57°	1113.0	994.7	638.1	68.8	7.2	1.5	1.1
57.5°	1113.5	994.6	632.4	59.7	6.8	1.5	0.9
58°	1113.6	994.5	626.5	54.3	6.5	1.5	0.8
58.5°	1113.9	993.9	620.8	50.9	6.2	1.3	0.7
59°	1114.3	993.7	615.1	48.8	5.8	1.2	0.6
59.5°	1114.8	993.2	609.0	47.4	5.5	1.1	0.6
60°	1115.2	992.7	602.9	46.7	5.2	0.9	0.5
60.5°	1115.4	992.1	596.8	46.0	4.8	0.7	0.5
61°	1115.5	991.6	590.8	45.2	4.5	0.6	0.5
61.5°	1115.9	990.8	584.7	44.4	4.2	0.6	0.5
62°	1115.8	990.1	579.0	43.6	3.9	0.5	0.5
62.5°	1115.9	989.5	573.7	42.9	3.6	0.5	0.5
63°	1115.9	989.2	568.0	42.1	3.3	0.5	0.5
63.5°	1115.8	988.9	562.4	41.2	3.0	0.5	0.5
64°	1115.7	988.4	556.6	40.2	2.7	0.4	0.5
64.5°	1115.3	987.9	551.1	39.2	2.5	0.4	0.5
65°	1114.4	987.4	545.6	38.2	2.3	0.4	0.5
65.5°	1114.1	986.9	540.3	37.1	2.1	0.4	0.5
66°	1113.5	986.7	535.1	35.8	1.9	0.4	0.5
66.5°	1112.6	985.9	529.6	34.7	1.7	0.4	0.6
67°	1111.5	985.3	524.7	33.6	1.6	0.4	0.6

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CATALOG NUMBER: AWP28S-BZ-LOW-3000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	1110.7	984.5	519.7	32.5	1.4	0.4	0.6
68°	1109.5	983.5	514.7	31.5	1.2	0.4	0.6
68.5°	1108.6	982.6	509.6	30.6	1.0	0.4	0.6
69°	1107.6	981.3	504.6	29.9	0.9	0.4	0.6
69.5°	1106.3	979.7	499.5	29.5	0.8	0.4	0.7
70°	1105.3	978.1	494.2	29.3	0.8	0.4	0.7
70.5°	1104.3	976.3	488.6	29.3	0.8	0.4	0.7
71°	1103.7	974.6	482.9	29.3	0.7	0.4	0.7
71.5°	1102.5	972.3	477.1	29.3	0.6	0.4	0.7
72°	1101.2	970.3	471.4	29.0	0.5	0.4	0.8
72.5°	1099.8	968.7	466.1	28.3	0.5	0.4	0.8
73°	1098.1	966.9	460.9	27.5	0.5	0.4	0.9
73.5°	1095.2	965.0	455.6	25.9	0.5	0.4	0.9
74°	1091.1	963.2	451.0	23.9	0.5	0.5	0.9
74.5°	1086.4	961.2	446.1	22.0	0.5	0.5	1.0
75°	1080.0	959.8	441.7	19.3	0.5	0.5	1.0
75.5°	1071.4	957.2	437.8	17.0	0.5	0.5	1.0
76°	1061.7	953.9	434.4	15.5	0.5	0.6	1.1
76.5°	1051.0	949.1	430.8	14.2	0.5	0.6	1.1
77°	1039.0	942.7	425.9	13.1	0.4	0.6	1.1
77.5°	1024.7	934.7	420.9	12.1	0.5	0.7	1.2
78°	1008.5	924.7	416.0	11.1	0.5	0.7	1.2
78.5°	991.4	914.5	411.0	10.0	0.5	0.7	1.3
79°	972.9	902.3	406.1	9.2	0.5	0.7	1.3
79.5°	953.4	888.6	402.4	8.5	0.5	0.8	1.3
80°	934.5	872.3	398.1	7.5	0.5	0.8	1.4
80.5°	916.4	855.0	393.9	6.7	0.5	0.8	1.4
81°	898.5	835.7	389.7	6.0	0.5	0.9	1.4
81.5°	883.4	815.9	385.9	5.4	0.5	0.9	1.5
82°	869.5	797.7	382.4	4.9	0.6	0.9	1.5
82.5°	857.7	781.0	379.5	4.4	0.6	0.9	1.5
83°	846.6	766.7	376.7	4.0	0.6	1.0	1.6
83.5°	836.7	754.1	374.2	3.6	0.6	1.0	1.6
84°	827.7	744.3	371.0	3.2	0.6	1.0	1.6
84.5°	819.9	736.5	367.2	2.9	0.7	1.1	1.7
85°	814.5	731.4	362.4	2.5	0.7	1.1	1.7
85.5°	810.3	726.8	356.2	2.2	0.7	1.1	1.8
86°	806.2	723.8	349.3	2.0	0.7	1.1	1.8
86.5°	802.6	723.6	342.3	1.8	0.7	1.2	1.8
87°	799.4	724.9	335.0	1.5	0.8	1.2	1.9
87.5°	795.2	727.6	328.3	1.3	0.8	1.2	1.9
88°	788.8	732.2	322.3	1.1	0.8	1.3	1.9
88.5°	780.5	738.3	318.2	0.9	0.8	1.3	2.0
89°	770.6	746.7	316.3	0.8	0.8	1.3	2.0
89.5°	758.8	756.7	314.1	0.7	0.9	1.3	2.0

REPORT NUMBER: P1197026

CATALOG NUMBER: AWP28S-BZ-LOW-3000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	743.9	763.9	312.1	0.5	0.9	1.4	2.0
90.5°	726.1	767.1	312.7	0.5	0.9	1.4	2.1
91°	707.8	764.1	309.5	0.4	0.9	1.4	2.1
91.5°	689.2	747.7	304.0	0.4	0.9	1.5	2.1
92°	670.9	719.8	298.4	0.4	1.0	1.5	2.1
92.5°	656.0	677.3	287.3	0.4	1.0	1.5	2.2
93°	645.5	621.1	266.6	0.4	1.0	1.6	2.2
93.5°	636.5	561.2	238.3	0.4	1.0	1.6	2.2
94°	633.2	496.5	204.8	0.4	1.0	1.6	2.2
94.5°	627.3	438.2	171.7	0.4	1.1	1.6	2.3
95°	609.7	393.8	143.0	0.4	1.1	1.7	2.3
95.5°	572.9	362.4	117.3	0.4	1.1	1.7	2.3
96°	528.8	330.8	97.6	0.4	1.1	1.7	2.3
96.5°	484.6	289.1	81.9	0.4	1.2	1.7	2.4
97°	440.7	284.5	67.5	0.4	1.2	1.8	2.4
97.5°	397.3	315.6	54.2	0.4	1.2	1.8	2.4
98°	354.8	351.5	46.4	0.4	1.2	1.8	2.4
98.5°	332.8	354.9	46.6	0.4	1.2	1.9	2.5
99°	318.8	302.6	49.0	0.4	1.3	1.9	2.5
99.5°	316.0	211.8	48.3	0.4	1.3	1.9	2.5
100°	331.8	162.6	49.9	0.4	1.3	1.9	2.5
100.5°	346.3	115.8	45.7	0.4	1.3	2.0	2.5
101°	296.6	68.9	36.6	0.4	1.3	2.0	2.5
101.5°	193.0	22.1	24.8	0.4	1.3	2.0	2.6
102°	118.9	16.0	18.6	0.4	1.4	2.0	2.6
102.5°	62.9	14.9	16.0	0.4	1.4	2.0	2.6
103°	28.6	14.6	13.8	0.4	1.4	2.1	2.6
103.5°	19.3	14.9	11.4	0.4	1.4	2.1	2.6
104°	18.7	16.3	9.2	0.4	1.4	2.1	2.6
104.5°	18.1	18.4	7.3	0.4	1.4	2.1	2.6
105°	18.3	17.9	5.9	0.4	1.5	2.1	2.7
105.5°	19.2	16.4	5.0	0.4	1.5	2.1	2.6
106°	21.2	15.7	4.3	0.4	1.5	2.2	2.7
106.5°	22.2	15.4	3.7	0.4	1.5	2.2	2.7
107°	20.7	14.4	3.0	0.4	1.5	2.2	2.7
107.5°	18.4	12.9	2.4	0.5	1.5	2.2	2.7
108°	17.4	11.0	2.1	0.5	1.6	2.2	2.7
108.5°	16.5	8.9	1.8	0.5	1.6	2.2	2.7
109°	14.4	7.0	1.6	0.5	1.6	2.3	2.7
109.5°	11.9	5.4	1.4	0.5	1.6	2.3	2.7
110°	9.8	4.2	1.2	0.5	1.6	2.3	2.8
110.5°	8.1	3.8	1.1	0.5	1.6	2.3	2.7
111°	7.2	3.6	0.9	0.5	1.7	2.3	2.8
111.5°	6.6	3.3	0.8	0.5	1.7	2.4	2.8
112°	5.9	3.0	0.7	0.5	1.7	2.4	2.8

REPORT NUMBER: P1197026

CATALOG NUMBER: AWP28S-BZ-LOW-3000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	5.1	2.6	0.6	0.6	1.7	2.4	2.8
113°	4.3	2.1	0.5	0.6	1.7	2.4	2.8
113.5°	3.7	1.6	0.4	0.6	1.7	2.4	2.8
114°	3.3	1.3	0.4	0.6	1.7	2.4	2.8
114.5°	2.8	1.0	0.3	0.6	1.8	2.4	2.8
115°	2.1	0.8	0.2	0.6	1.8	2.5	2.8
115.5°	1.6	0.7	0.2	0.6	1.8	2.5	2.9
116°	1.3	0.6	0.1	0.6	1.8	2.5	2.9
116.5°	1.0	0.4	0.1	0.6	1.8	2.5	2.9
117°	0.8	0.3	0.1	0.7	1.8	2.5	2.9
117.5°	0.7	0.2	0.1	0.7	1.8	2.5	2.9
118°	0.5	0.1	0.1	0.7	1.8	2.5	2.9
118.5°	0.4	0.0	0.0	0.7	1.8	2.5	2.9
119°	0.2	0.0	0.0	0.7	1.9	2.5	2.9
119.5°	0.1	0.0	0.0	0.7	1.9	2.5	2.9
120°	0.0	0.0	0.0	0.7	1.9	2.6	2.9
120.5°	0.0	0.0	0.0	0.7	1.9	2.6	2.9
121°	0.0	0.0	0.0	0.8	1.9	2.6	2.9
121.5°	0.0	0.0	0.0	0.8	1.9	2.6	2.9
122°	0.0	0.0	0.0	0.8	1.9	2.6	2.9
122.5°	0.0	0.0	0.1	0.8	1.9	2.6	2.9
123°	0.0	0.0	0.1	0.8	1.9	2.6	2.9
123.5°	0.0	0.0	0.1	0.8	1.9	2.6	2.9
124°	0.0	0.0	0.1	0.8	1.9	2.6	2.9
124.5°	0.0	0.0	0.1	0.9	1.9	2.6	2.9
125°	0.0	0.0	0.1	0.9	2.0	2.6	2.9
125.5°	0.0	0.0	0.1	0.9	2.0	2.6	2.9
126°	0.0	0.0	0.1	0.9	2.0	2.6	2.9
126.5°	0.0	0.0	0.1	0.9	2.0	2.6	2.9
127°	0.0	0.0	0.2	0.9	2.0	2.6	2.9
127.5°	0.0	0.0	0.2	0.9	2.0	2.6	2.9
128°	0.0	0.0	0.2	0.9	2.0	2.6	2.9
128.5°	0.0	0.0	0.2	1.0	2.0	2.6	2.9
129°	0.0	0.0	0.2	1.0	2.0	2.6	2.9
129.5°	0.0	0.0	0.2	1.0	2.0	2.6	2.9
130°	0.0	0.0	0.2	1.0	2.0	2.6	2.9
130.5°	0.0	0.0	0.3	1.0	2.0	2.6	2.9
131°	0.0	0.0	0.3	1.0	2.0	2.6	2.9
131.5°	0.0	0.0	0.3	1.0	2.0	2.6	2.9
132°	0.0	0.0	0.3	1.0	2.0	2.6	2.9
132.5°	0.0	0.0	0.3	1.0	2.0	2.6	2.9
133°	0.0	0.0	0.3	1.1	2.0	2.6	2.9
133.5°	0.0	0.0	0.3	1.1	2.0	2.6	2.9
134°	0.0	0.0	0.4	1.1	2.0	2.6	2.9
134.5°	0.0	0.0	0.4	1.1	2.0	2.6	2.9

REPORT NUMBER: P1197026

CATALOG NUMBER: AWPf28S-BZ-LOW-3000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	0.0	0.0	0.4	1.1	2.1	2.6	2.9
135.5°	0.0	0.0	0.4	1.1	2.1	2.6	2.9
136°	0.0	0.0	0.4	1.1	2.1	2.6	2.9
136.5°	0.0	0.0	0.4	1.1	2.1	2.6	2.9
137°	0.0	0.0	0.4	1.1	2.1	2.6	2.9
137.5°	0.0	0.0	0.5	1.2	2.1	2.7	2.9
138°	0.0	0.0	0.5	1.2	2.1	2.7	2.9
138.5°	0.0	0.0	0.5	1.2	2.1	2.7	2.9
139°	0.0	0.0	0.5	1.2	2.1	2.7	2.9
139.5°	0.0	0.0	0.5	1.2	2.1	2.7	2.8
140°	0.0	0.0	0.5	1.2	2.1	2.7	2.8
140.5°	0.0	0.0	0.6	1.2	2.1	2.7	2.8
141°	0.0	0.0	0.6	1.2	2.1	2.7	2.8
141.5°	0.0	0.0	0.6	1.2	2.1	2.6	2.8
142°	0.0	0.0	0.6	1.3	2.1	2.6	2.8
142.5°	0.0	0.0	0.6	1.3	2.1	2.6	2.8
143°	0.0	0.0	0.6	1.3	2.1	2.6	2.8
143.5°	0.0	0.0	0.7	1.3	2.1	2.6	2.7
144°	0.0	0.0	0.7	1.3	2.1	2.6	2.7
144.5°	0.0	0.1	0.7	1.3	2.1	2.6	2.7
145°	0.0	0.1	0.7	1.3	2.1	2.6	2.7
145.5°	0.0	0.1	0.7	1.3	2.1	2.6	2.7
146°	0.0	0.1	0.7	1.4	2.1	2.6	2.7
146.5°	0.0	0.1	0.8	1.4	2.1	2.6	2.7
147°	0.0	0.1	0.8	1.4	2.1	2.6	2.7
147.5°	0.0	0.1	0.8	1.4	2.1	2.6	2.6
148°	0.0	0.2	0.8	1.4	2.1	2.6	2.6
148.5°	0.0	0.2	0.8	1.4	2.1	2.6	2.6
149°	0.1	0.2	0.8	1.4	2.1	2.6	2.6
149.5°	0.1	0.2	0.9	1.4	2.1	2.6	2.6
150°	0.1	0.2	0.9	1.4	2.1	2.5	2.6
150.5°	0.1	0.3	0.9	1.4	2.1	2.5	2.6
151°	0.1	0.3	0.9	1.4	2.1	2.5	2.5
151.5°	0.1	0.3	0.9	1.5	2.1	2.5	2.5
152°	0.1	0.3	0.9	1.5	2.1	2.5	2.5
152.5°	0.1	0.3	1.0	1.5	2.1	2.5	2.5
153°	0.1	0.3	1.0	1.5	2.1	2.5	2.5
153.5°	0.2	0.3	1.0	1.5	2.1	2.5	2.5
154°	0.2	0.3	1.0	1.5	2.1	2.5	2.4
154.5°	0.2	0.4	1.0	1.5	2.1	2.5	2.4
155°	0.2	0.4	1.0	1.5	2.1	2.5	2.4
155.5°	0.2	0.4	1.1	1.5	2.1	2.5	2.4
156°	0.2	0.4	1.1	1.5	2.1	2.5	2.4
156.5°	0.2	0.4	1.1	1.5	2.1	2.5	2.4
157°	0.3	0.5	1.1	1.6	2.1	2.4	2.3

REPORT NUMBER: P1197026

CATALOG NUMBER: AWP28S-BZ-LOW-3000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	0.3	0.5	1.1	1.6	2.1	2.4	2.3
158°	0.3	0.5	1.1	1.6	2.1	2.4	2.3
158.5°	0.3	0.5	1.1	1.6	2.1	2.4	2.3
159°	0.3	0.6	1.2	1.6	2.1	2.4	2.3
159.5°	0.4	0.6	1.2	1.6	2.1	2.4	2.3
160°	0.4	0.6	1.2	1.6	2.1	2.4	2.2
160.5°	0.4	0.6	1.2	1.6	2.1	2.4	2.2
161°	0.4	0.6	1.2	1.6	2.1	2.3	2.2
161.5°	0.4	0.7	1.2	1.6	2.1	2.3	2.2
162°	0.4	0.7	1.2	1.6	2.1	2.3	2.2
162.5°	0.5	0.7	1.3	1.6	2.1	2.3	2.1
163°	0.5	0.7	1.3	1.6	2.1	2.3	2.1
163.5°	0.5	0.7	1.3	1.7	2.1	2.3	2.1
164°	0.5	0.8	1.3	1.7	2.1	2.3	2.1
164.5°	0.5	0.8	1.3	1.7	2.1	2.3	2.0
165°	0.5	0.8	1.3	1.7	2.0	2.3	2.0
165.5°	0.6	0.9	1.4	1.7	2.0	2.3	2.0
166°	0.6	0.9	1.4	1.7	2.1	2.2	2.0
166.5°	0.6	0.9	1.4	1.7	2.1	2.2	2.0
167°	0.6	0.9	1.4	1.7	2.0	2.2	1.9
167.5°	0.6	0.9	1.4	1.8	2.0	2.2	1.9
168°	0.7	1.0	1.4	1.8	2.0	2.2	1.9
168.5°	0.7	1.0	1.5	1.8	2.0	2.2	1.8
169°	0.7	1.0	1.5	1.8	2.0	2.2	1.8
169.5°	0.7	1.0	1.5	1.8	2.0	2.2	1.8
170°	0.8	1.0	1.5	1.8	2.0	2.2	1.8
170.5°	0.8	1.1	1.5	1.8	2.0	2.2	1.8
171°	0.8	1.1	1.5	1.8	2.0	2.1	1.7
171.5°	0.8	1.1	1.5	1.8	2.0	2.1	1.7
172°	0.8	1.1	1.5	1.8	2.0	2.1	1.7
172.5°	0.9	1.1	1.6	1.8	2.0	2.1	1.6
173°	0.9	1.2	1.6	1.8	2.0	2.1	1.6
173.5°	0.9	1.2	1.6	1.8	2.0	2.1	1.6
174°	0.9	1.2	1.6	1.8	2.0	2.0	1.6
174.5°	0.9	1.2	1.6	1.8	2.0	2.0	1.5
175°	1.0	1.2	1.6	1.8	2.0	2.0	1.5
175.5°	1.0	1.3	1.6	1.8	2.0	2.0	1.5
176°	1.0	1.3	1.7	1.8	2.0	2.0	1.4
176.5°	1.0	1.3	1.7	1.8	1.9	2.0	1.4
177°	1.1	1.3	1.7	1.8	1.9	2.0	1.4
177.5°	1.1	1.4	1.7	1.8	1.9	1.9	1.4
178°	1.1	1.4	1.7	1.8	1.9	1.9	1.3
178.5°	1.1	1.4	1.7	1.8	1.9	1.9	1.3
179°	1.2	1.4	1.7	1.8	1.9	1.9	1.3
179.5°	1.2	1.4	1.7	1.8	1.9	1.9	1.2



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CATALOG NUMBER: AWPf28S-BZ-LOW-3000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	1.2	1.2	1.2	1.2	1.2	1.2	1.2

(END OF REPORT)