

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: P1197033

Luminaire Tested: AWP28S-BZ-MID-5000K-POSITION 45

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197033
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-MID-5000K-POSITION 45
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 5000K
Ballast/Driver: -

Summary

Lumens per Lamp: 3422 (1 lamp)
Luminaire Lumens: 3354.6 lumens
Efficiency: 98.0%
Efficacy: 126.1 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 - U3 - G3

Input Watts (W): 26.6
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

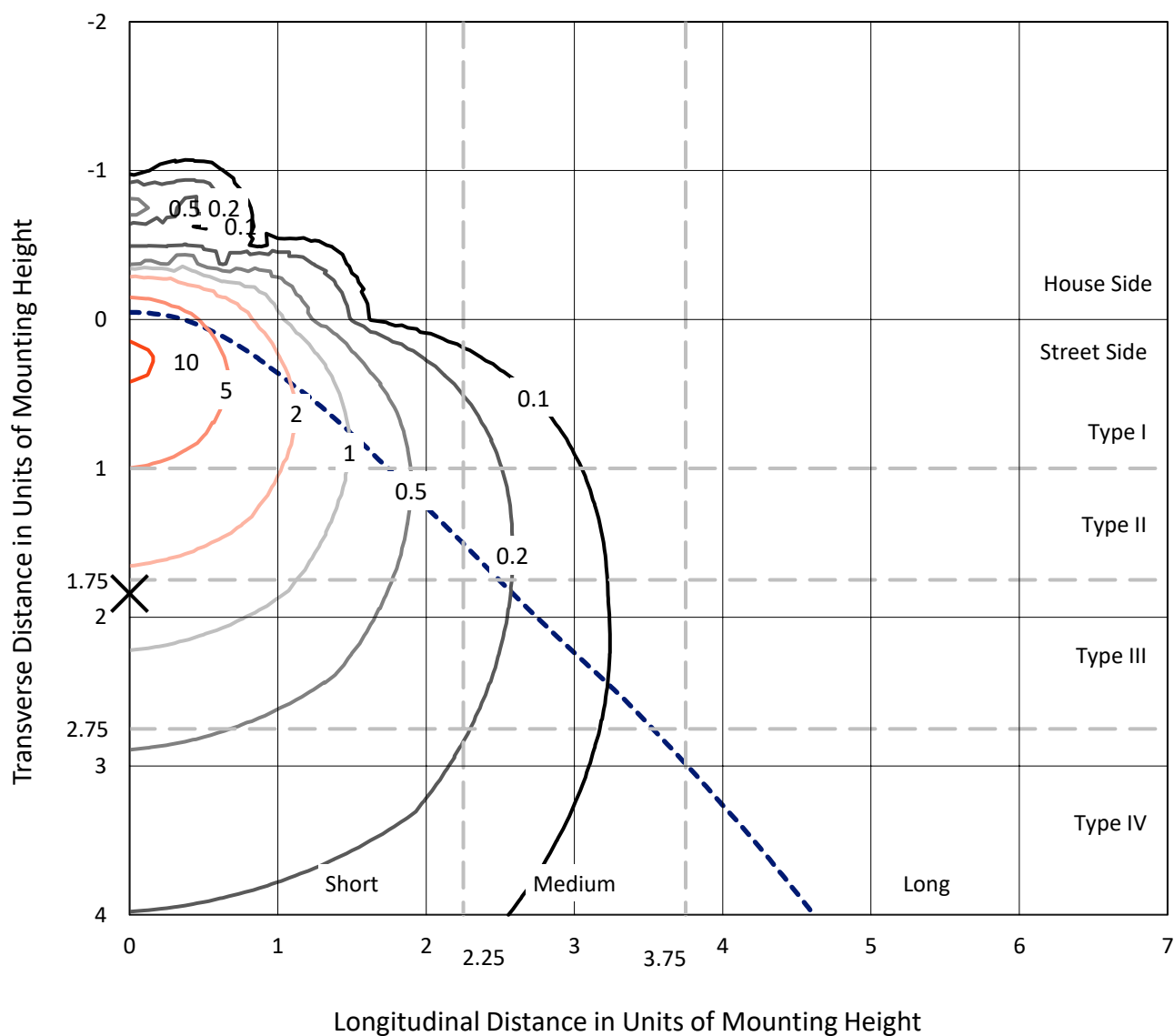
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

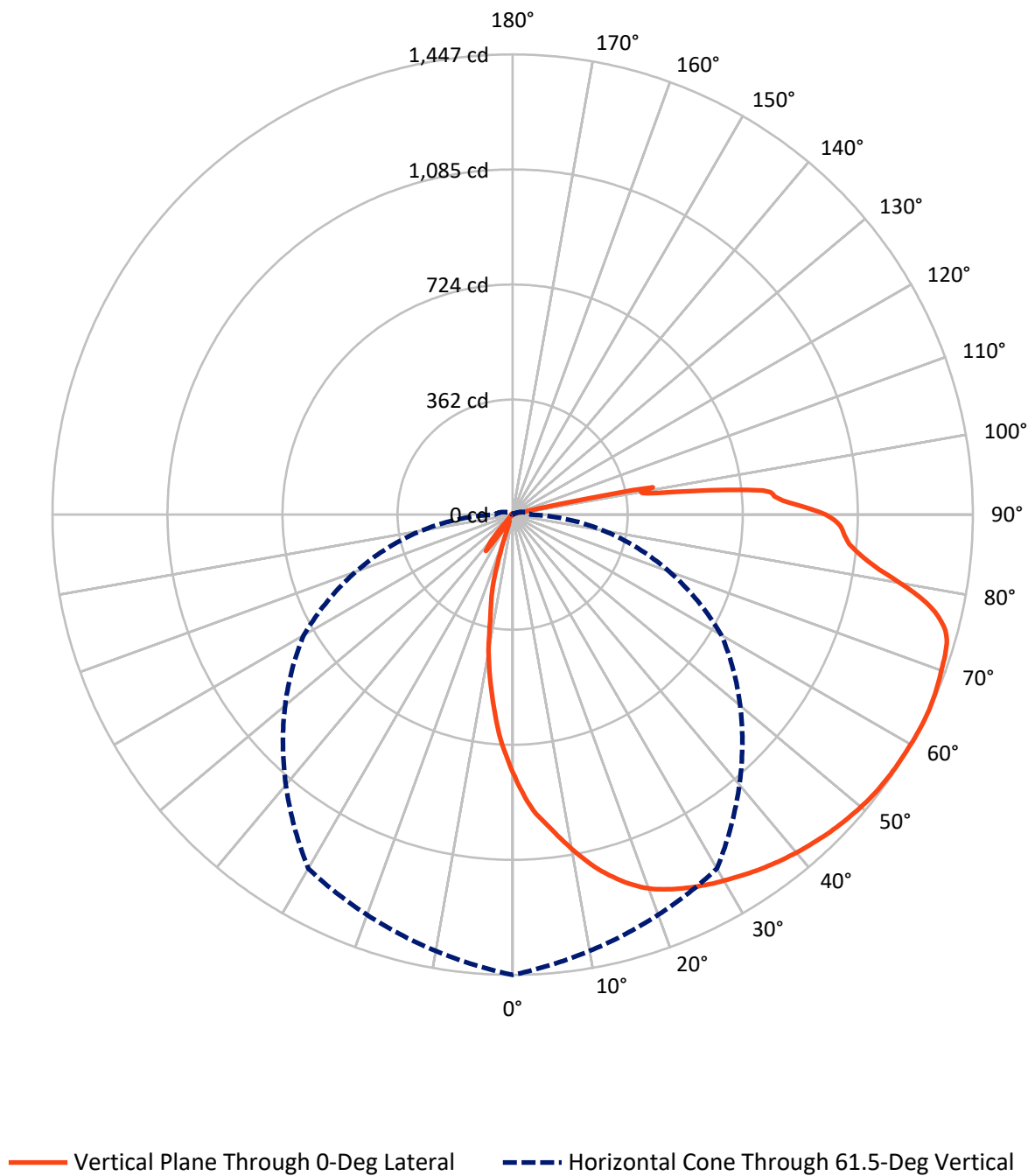


Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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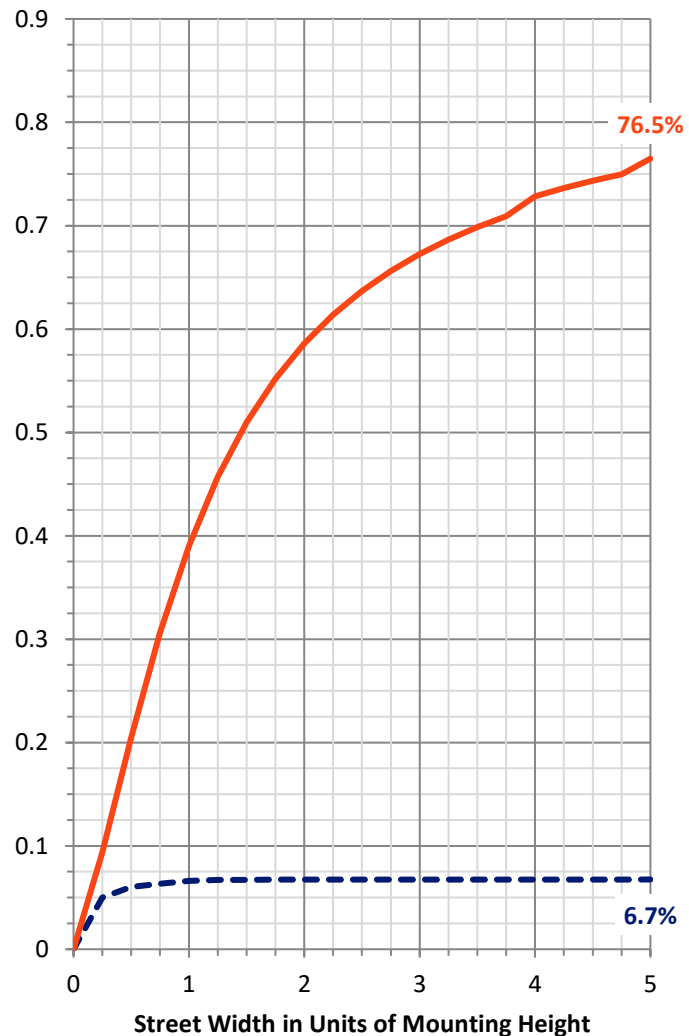
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	233.9	7.8	241.8
	% Lamp	6.8	0.2	7.1
Street Side	Lumens	2878.7	234.2	3112.8
	% Lamp	84.1	6.8	91.0
Total	Lumens	3112.6	242.0	3354.6
	% Lamp	91.0	7.1	98.0

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	76.4	2.3	2.2
10°-20°	207.4	6.2	6.1
20°-30°	300.8	9.0	8.8
30°-40°	377.7	11.3	11.0
40°-50°	435.8	13.0	12.7
50°-60°	451.4	13.5	13.2
60°-70°	457.0	13.6	13.4
70°-80°	443.9	13.2	13.0
80°-90°	362.2	10.8	10.6
90°-100°	216.2	6.4	6.3
100°-110°	18.3	0.5	0.5
110°-120°	2.0	0.1	0.1
120°-130°	1.3	0.0	0.0
130°-140°	1.3	0.0	0.0
140°-150°	1.1	0.0	0.0
150°-160°	0.9	0.0	0.0
160°-170°	0.6	0.0	0.0
170°-180°	0.2	0.0	0.0
0°-90°	3112.6	92.8	91.0
0°-180°	3354.6	100.0	98.0

Coefficient of Utilization



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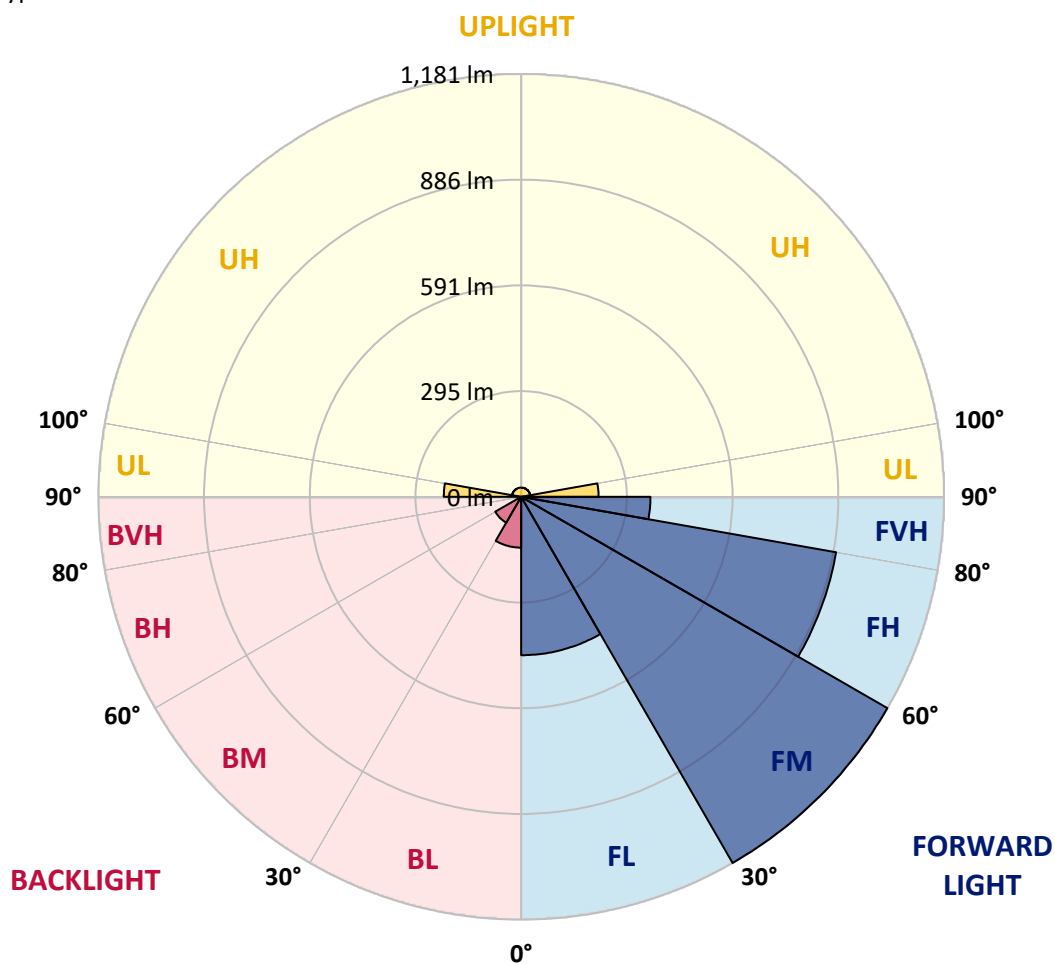
CATALOG NUMBER: AWP28S-BZ-MID-5000K-POSITION 45

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	442.5	12.9			
FM	(30°-60°)	1181.4	34.5			
FH	(60°-80°)	893.5	26.1			G1/1800
FVH	(80°-90°)	361.3	10.6			G3/500
BL	(0°-30°)	142.1	4.2	B1/500		
BM	(30°-60°)	83.5	2.4	B0/220		
BH	(60°-80°)	7.3	0.2	B0/110		G0/110
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	216.2	6.3		U3/500	
UH	(100°-180°)	25.8	0.8		U2/50	
Trapped Light		67.4	2.0			

BUG Rating: B1-U3-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	822.7	822.7	822.7	822.7	822.7	822.7	822.7
0.5°	842.3	845.0	835.1	824.3	810.6	794.9	808.8
1°	858.1	858.3	843.4	824.1	802.5	780.8	792.4
1.5°	873.2	871.5	851.4	823.8	793.8	766.1	775.9
2°	888.7	885.0	858.2	823.3	785.3	751.8	759.3
2.5°	904.5	898.1	865.5	822.8	776.8	738.0	743.4
3°	918.1	910.3	872.9	822.0	767.8	723.9	726.8
3.5°	931.7	922.5	880.2	821.3	759.0	708.9	709.3
4°	943.6	933.0	887.3	820.6	750.4	693.2	691.0
4.5°	953.9	942.8	894.6	819.8	741.7	676.7	671.2
5°	964.1	951.4	900.7	818.7	732.9	659.0	651.8
5.5°	974.4	959.8	906.8	817.7	724.2	642.2	631.8
6°	985.1	968.5	912.7	816.2	714.9	624.7	611.7
6.5°	996.1	977.6	918.4	814.8	705.4	606.9	592.3
7°	1007.6	987.0	923.7	813.2	695.5	589.8	572.3
7.5°	1019.1	996.0	928.6	811.6	685.0	572.1	552.2
8°	1031.0	1005.6	932.8	809.9	674.7	554.4	532.6
8.5°	1042.7	1015.2	936.6	808.0	663.8	537.3	513.9
9°	1054.2	1025.0	940.4	806.1	652.8	519.8	495.1
9.5°	1066.1	1035.0	944.0	804.1	641.4	503.2	475.3
10°	1077.8	1044.5	947.5	801.7	629.5	486.8	455.1
10.5°	1089.3	1054.3	951.2	799.1	617.9	469.9	435.2
11°	1100.7	1063.9	954.9	796.5	606.3	451.9	409.5
11.5°	1112.0	1073.3	958.2	793.8	594.2	434.7	385.1
12°	1123.5	1082.5	962.0	791.1	582.0	415.5	361.9
12.5°	1134.3	1091.8	965.5	788.3	568.8	393.8	341.5
13°	1144.8	1101.0	969.1	785.2	555.5	371.3	323.2
13.5°	1154.5	1109.9	972.8	782.0	542.3	350.8	306.4
14°	1163.7	1119.0	976.0	778.6	529.1	332.5	292.0
14.5°	1173.5	1127.5	979.7	775.1	515.9	316.0	278.0
15°	1182.2	1135.5	983.5	771.3	503.9	300.7	264.1
15.5°	1191.3	1143.5	987.4	767.2	491.2	286.1	250.1
16°	1199.8	1151.2	990.8	763.3	479.3	274.3	236.1
16.5°	1208.4	1159.0	994.4	759.4	467.3	262.4	214.7
17°	1216.3	1166.6	998.0	755.4	455.2	250.4	189.1
17.5°	1223.5	1173.3	1001.3	751.3	443.4	238.5	163.3
18°	1230.9	1180.2	1004.3	746.4	431.3	222.9	142.6
18.5°	1237.8	1186.9	1007.0	741.3	418.6	203.8	124.3
19°	1244.3	1193.3	1009.7	736.0	405.6	180.8	108.8
19.5°	1250.3	1199.4	1012.4	730.7	392.7	158.6	90.3
20°	1256.0	1205.3	1014.8	725.2	380.0	138.5	69.7
20.5°	1261.1	1210.5	1017.1	719.7	368.1	122.2	51.3
21°	1265.7	1215.8	1019.5	714.4	354.8	107.8	40.9
21.5°	1270.6	1220.6	1021.8	708.8	340.0	93.2	36.7
22°	1274.9	1225.0	1023.8	703.1	325.3	76.5	34.8

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	1279.1	1229.3	1026.0	697.8	311.3	59.1	33.7
23°	1283.5	1233.2	1028.0	692.0	298.0	44.9	32.6
23.5°	1287.3	1236.2	1030.0	686.1	286.0	36.9	31.6
24°	1291.2	1239.7	1031.6	680.2	275.3	33.6	30.8
24.5°	1294.8	1242.5	1033.1	674.1	264.6	32.1	29.9
25°	1299.0	1245.2	1034.4	668.0	254.4	31.2	28.8
25.5°	1302.5	1247.9	1035.4	661.7	244.6	30.5	27.7
26°	1306.2	1250.5	1036.4	655.5	234.6	30.1	26.5
26.5°	1309.4	1252.8	1037.2	649.5	224.4	29.6	25.6
27°	1312.9	1255.0	1037.9	643.0	215.3	29.2	25.0
27.5°	1316.4	1257.0	1038.0	636.4	205.4	28.8	24.5
28°	1319.9	1258.8	1038.2	629.5	193.7	28.4	24.3
28.5°	1322.8	1260.5	1038.4	622.6	179.1	27.8	24.1
29°	1325.7	1261.9	1038.4	615.3	162.3	27.1	23.7
29.5°	1328.8	1263.5	1038.5	607.7	143.8	26.3	23.2
30°	1331.8	1265.0	1038.5	600.5	125.5	25.5	22.6
30.5°	1334.9	1266.5	1037.9	592.8	108.8	24.8	22.2
31°	1338.3	1267.7	1037.4	585.0	93.9	23.9	21.6
31.5°	1341.3	1269.5	1037.1	577.1	81.3	23.1	21.1
32°	1344.7	1270.6	1036.6	568.8	70.7	22.4	20.6
32.5°	1347.8	1271.9	1035.9	560.9	62.8	21.7	20.3
33°	1351.0	1273.2	1035.4	552.9	56.1	21.2	20.3
33.5°	1353.9	1274.2	1035.0	545.0	51.0	20.7	21.1
34°	1357.0	1275.3	1034.4	536.6	46.9	20.3	24.4
34.5°	1360.1	1276.6	1033.4	527.8	43.0	20.0	40.2
35°	1363.2	1278.1	1032.2	518.9	38.8	19.7	66.2
35.5°	1365.8	1279.4	1030.5	509.9	35.4	19.3	88.4
36°	1368.8	1280.9	1028.9	500.8	33.2	18.9	106.8
36.5°	1371.6	1282.4	1027.1	491.5	31.6	18.8	139.5
37°	1374.5	1283.9	1025.2	482.2	30.4	18.5	141.6
37.5°	1376.9	1285.4	1023.2	472.7	29.5	18.1	131.5
38°	1379.6	1286.4	1020.8	463.2	28.7	17.8	127.7
38.5°	1382.3	1287.8	1018.4	453.5	27.8	17.6	123.9
39°	1385.2	1289.4	1015.9	443.9	27.0	17.6	117.9
39.5°	1387.7	1290.6	1012.9	434.0	26.2	18.1	108.8
40°	1390.0	1291.7	1009.6	423.9	25.4	21.1	96.5
40.5°	1392.6	1292.8	1006.1	413.8	24.9	31.1	84.6
41°	1394.8	1293.8	1002.9	403.1	24.6	47.4	70.4
41.5°	1397.1	1294.6	999.5	393.0	24.2	59.3	56.3
42°	1399.6	1295.4	995.7	382.1	23.8	64.1	44.9
42.5°	1402.0	1296.0	991.7	370.8	23.4	80.1	37.4
43°	1404.2	1296.3	987.7	360.2	22.8	90.5	32.1
43.5°	1406.7	1296.7	983.4	349.4	22.1	81.2	27.4
44°	1409.1	1296.9	978.6	339.2	21.5	76.3	23.3
44.5°	1411.2	1297.1	974.1	328.6	20.8	73.5	19.4

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	1413.2	1297.4	969.3	317.5	20.2	71.1	16.1
45.5°	1415.5	1297.5	964.4	306.3	19.8	69.0	13.6
46°	1417.3	1297.7	959.2	295.2	19.3	66.3	11.9
46.5°	1419.3	1298.0	953.6	283.8	18.9	63.1	10.4
47°	1421.1	1297.9	948.4	272.8	18.5	59.8	9.4
47.5°	1422.7	1298.2	942.9	261.9	18.1	56.6	8.5
48°	1424.6	1298.3	937.1	251.0	17.7	53.4	8.0
48.5°	1426.5	1298.6	931.5	240.1	17.2	49.9	7.4
49°	1428.1	1298.7	925.9	230.3	16.7	45.6	6.9
49.5°	1429.6	1298.3	920.0	220.4	16.2	41.2	6.4
50°	1431.2	1298.2	914.5	211.2	15.6	36.8	5.9
50.5°	1433.0	1298.4	908.7	203.1	15.0	32.3	5.2
51°	1434.5	1298.1	902.9	195.6	14.5	28.6	4.5
51.5°	1435.5	1297.9	897.4	188.8	14.1	25.3	3.9
52°	1437.2	1297.6	891.3	182.8	13.6	22.4	3.3
52.5°	1438.1	1297.1	885.5	177.3	13.2	19.8	3.0
53°	1438.7	1296.3	879.8	171.4	12.6	17.3	2.9
53.5°	1439.7	1295.6	873.5	165.0	12.2	15.0	2.8
54°	1440.5	1294.8	867.4	158.9	11.7	12.9	2.7
54.5°	1441.2	1293.6	861.2	152.8	11.3	9.9	2.5
55°	1441.9	1292.8	855.0	145.2	10.9	5.7	2.3
55.5°	1442.1	1292.0	848.6	134.9	10.4	3.1	2.0
56°	1442.7	1291.1	841.9	121.3	10.1	2.2	1.8
56.5°	1443.1	1290.6	834.8	105.1	9.7	2.0	1.8
57°	1443.3	1290.0	827.4	89.2	9.3	2.0	1.4
57.5°	1443.9	1289.8	820.0	77.5	8.9	1.9	1.2
58°	1444.1	1289.6	812.4	70.4	8.4	1.9	1.1
58.5°	1444.5	1288.9	805.0	66.0	8.0	1.7	0.9
59°	1445.0	1288.6	797.6	63.2	7.5	1.6	0.8
59.5°	1445.7	1287.9	789.7	61.5	7.1	1.4	0.7
60°	1446.2	1287.3	781.9	60.5	6.7	1.2	0.7
60.5°	1446.4	1286.5	774.0	59.6	6.2	0.9	0.6
61°	1446.6	1285.8	766.1	58.7	5.8	0.8	0.6
61.5°	1447.1	1284.8	758.3	57.6	5.5	0.7	0.6
62°	1447.0	1283.9	750.9	56.6	5.1	0.7	0.6
62.5°	1447.1	1283.2	744.0	55.6	4.7	0.6	0.6
63°	1447.1	1282.8	736.6	54.6	4.3	0.6	0.6
63.5°	1447.0	1282.4	729.3	53.4	3.9	0.6	0.6
64°	1446.8	1281.7	721.8	52.1	3.5	0.6	0.6
64.5°	1446.3	1281.1	714.7	50.9	3.3	0.6	0.6
65°	1445.2	1280.4	707.6	49.5	3.0	0.6	0.6
65.5°	1444.7	1279.8	700.6	48.2	2.7	0.6	0.7
66°	1443.9	1279.5	693.9	46.5	2.5	0.6	0.7
66.5°	1442.8	1278.5	686.8	44.9	2.3	0.6	0.7
67°	1441.4	1277.7	680.5	43.6	2.0	0.5	0.8

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	1440.3	1276.7	673.9	42.2	1.8	0.5	0.8
68°	1438.8	1275.4	667.4	40.8	1.5	0.5	0.8
68.5°	1437.7	1274.2	660.9	39.7	1.3	0.5	0.8
69°	1436.3	1272.6	654.3	38.7	1.1	0.5	0.8
69.5°	1434.6	1270.5	647.8	38.2	1.1	0.5	0.9
70°	1433.3	1268.3	640.9	38.0	1.1	0.5	0.9
70.5°	1432.0	1266.0	633.6	38.0	1.0	0.5	0.9
71°	1431.2	1263.8	626.2	38.0	0.9	0.5	0.9
71.5°	1429.6	1260.9	618.7	38.0	0.8	0.6	1.0
72°	1428.0	1258.2	611.3	37.6	0.7	0.6	1.0
72.5°	1426.2	1256.2	604.5	36.7	0.7	0.6	1.1
73°	1424.0	1253.9	597.7	35.6	0.6	0.6	1.1
73.5°	1420.2	1251.4	590.8	33.6	0.6	0.6	1.1
74°	1414.9	1249.0	584.8	31.0	0.6	0.6	1.2
74.5°	1408.9	1246.5	578.5	28.6	0.6	0.6	1.2
75°	1400.5	1244.7	572.8	25.0	0.6	0.7	1.3
75.5°	1389.4	1241.3	567.7	22.0	0.6	0.7	1.3
76°	1376.8	1237.0	563.3	20.1	0.6	0.7	1.4
76.5°	1362.9	1230.8	558.7	18.4	0.6	0.8	1.4
77°	1347.4	1222.4	552.3	17.0	0.6	0.8	1.5
77.5°	1328.8	1212.1	545.8	15.6	0.6	0.8	1.5
78°	1307.8	1199.2	539.4	14.3	0.6	0.9	1.6
78.5°	1285.7	1186.0	533.0	13.0	0.6	0.9	1.6
79°	1261.6	1170.1	526.6	11.9	0.6	1.0	1.7
79.5°	1236.3	1152.3	521.9	11.0	0.6	1.0	1.7
80°	1211.9	1131.2	516.3	9.7	0.6	1.0	1.8
80.5°	1188.3	1108.7	510.8	8.7	0.7	1.1	1.8
81°	1165.1	1083.7	505.4	7.7	0.7	1.1	1.9
81.5°	1145.6	1058.1	500.4	7.0	0.7	1.1	1.9
82°	1127.6	1034.4	495.9	6.4	0.7	1.2	2.0
82.5°	1112.2	1012.8	492.1	5.8	0.8	1.2	2.0
83°	1097.8	994.2	488.6	5.2	0.8	1.2	2.0
83.5°	1085.0	977.9	485.3	4.6	0.8	1.3	2.1
84°	1073.4	965.2	481.2	4.2	0.8	1.3	2.1
84.5°	1063.2	955.1	476.1	3.7	0.8	1.4	2.2
85°	1056.2	948.4	469.9	3.3	0.9	1.4	2.2
85.5°	1050.8	942.5	461.9	2.9	0.9	1.4	2.3
86°	1045.4	938.7	453.0	2.6	0.9	1.5	2.3
86.5°	1040.8	938.4	443.9	2.3	0.9	1.5	2.4
87°	1036.7	940.0	434.5	2.0	1.0	1.6	2.4
87.5°	1031.2	943.5	425.8	1.7	1.0	1.6	2.4
88°	1022.9	949.5	417.9	1.4	1.0	1.7	2.5
88.5°	1012.2	957.4	412.6	1.2	1.1	1.7	2.5
89°	999.2	968.3	410.2	1.1	1.1	1.7	2.6
89.5°	984.0	981.3	407.4	1.0	1.1	1.7	2.6

REPORT NUMBER: P1197033

CATALOG NUMBER: AWP28S-BZ-MID-5000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	964.7	990.6	404.7	0.7	1.2	1.8	2.7
90.5°	941.6	994.8	405.4	0.6	1.2	1.8	2.7
91°	917.9	990.9	401.4	0.6	1.2	1.9	2.7
91.5°	893.7	969.6	394.3	0.6	1.2	1.9	2.8
92°	870.0	933.4	386.9	0.6	1.3	1.9	2.8
92.5°	850.6	878.3	372.6	0.6	1.3	2.0	2.8
93°	837.0	805.4	345.7	0.6	1.3	2.0	2.8
93.5°	825.4	727.7	309.0	0.6	1.3	2.0	2.9
94°	821.1	643.8	265.6	0.6	1.4	2.1	2.9
94.5°	813.5	568.2	222.7	0.5	1.4	2.1	2.9
95°	790.6	510.6	185.4	0.5	1.4	2.2	3.0
95.5°	743.0	470.0	152.1	0.5	1.4	2.2	3.0
96°	685.8	429.0	126.5	0.5	1.5	2.2	3.0
96.5°	628.4	374.9	106.2	0.5	1.5	2.3	3.1
97°	571.5	369.0	87.5	0.5	1.5	2.3	3.1
97.5°	515.1	409.3	70.3	0.5	1.6	2.3	3.1
98°	460.1	455.9	60.1	0.5	1.6	2.4	3.2
98.5°	431.5	460.2	60.5	0.6	1.6	2.4	3.2
99°	413.4	392.4	63.5	0.6	1.6	2.4	3.2
99.5°	409.8	274.6	62.7	0.6	1.6	2.5	3.2
100°	430.3	210.8	64.7	0.6	1.7	2.5	3.3
100.5°	449.1	150.1	59.3	0.6	1.7	2.5	3.3
101°	384.7	89.4	47.5	0.6	1.7	2.6	3.3
101.5°	250.3	28.6	32.1	0.6	1.7	2.6	3.3
102°	154.2	20.8	24.1	0.6	1.8	2.6	3.3
102.5°	81.6	19.3	20.8	0.6	1.8	2.7	3.3
103°	37.0	19.0	17.8	0.6	1.8	2.7	3.4
103.5°	25.0	19.4	14.7	0.6	1.8	2.7	3.4
104°	24.3	21.2	11.9	0.6	1.9	2.7	3.4
104.5°	23.5	23.9	9.4	0.6	1.9	2.8	3.4
105°	23.7	23.3	7.6	0.6	1.9	2.8	3.4
105.5°	24.8	21.3	6.5	0.6	1.9	2.8	3.4
106°	27.5	20.4	5.6	0.6	1.9	2.8	3.4
106.5°	28.8	20.0	4.8	0.6	2.0	2.8	3.5
107°	26.8	18.6	3.9	0.6	2.0	2.8	3.5
107.5°	23.9	16.7	3.2	0.6	2.0	2.9	3.5
108°	22.6	14.3	2.7	0.6	2.0	2.9	3.5
108.5°	21.3	11.5	2.4	0.6	2.1	2.9	3.5
109°	18.7	9.0	2.1	0.6	2.1	3.0	3.6
109.5°	15.5	7.0	1.8	0.7	2.1	3.0	3.6
110°	12.7	5.5	1.6	0.7	2.1	3.0	3.6
110.5°	10.5	4.9	1.4	0.7	2.1	3.0	3.6
111°	9.3	4.6	1.2	0.7	2.1	3.0	3.6
111.5°	8.6	4.3	1.0	0.7	2.2	3.1	3.6
112°	7.7	3.9	0.8	0.7	2.2	3.1	3.6

REPORT NUMBER: P1197033

CATALOG NUMBER: AWP28S-BZ-MID-5000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	6.6	3.3	0.8	0.7	2.2	3.1	3.6
113°	5.5	2.7	0.7	0.7	2.2	3.1	3.6
113.5°	4.7	2.1	0.6	0.7	2.2	3.1	3.6
114°	4.3	1.7	0.5	0.8	2.3	3.2	3.6
114.5°	3.6	1.3	0.4	0.8	2.3	3.2	3.7
115°	2.8	1.1	0.3	0.8	2.3	3.2	3.7
115.5°	2.1	0.9	0.2	0.8	2.3	3.2	3.7
116°	1.7	0.8	0.2	0.8	2.3	3.2	3.7
116.5°	1.3	0.6	0.1	0.8	2.3	3.2	3.7
117°	1.1	0.4	0.1	0.9	2.4	3.3	3.7
117.5°	0.9	0.2	0.1	0.9	2.4	3.3	3.7
118°	0.7	0.1	0.1	0.9	2.4	3.3	3.7
118.5°	0.5	0.0	0.0	0.9	2.4	3.3	3.7
119°	0.3	0.0	0.0	0.9	2.4	3.3	3.7
119.5°	0.1	0.0	0.1	0.9	2.4	3.3	3.7
120°	0.0	0.0	0.0	1.0	2.4	3.3	3.7
120.5°	0.0	0.0	0.0	1.0	2.4	3.3	3.7
121°	0.0	0.0	0.1	1.0	2.4	3.3	3.7
121.5°	0.0	0.0	0.1	1.0	2.5	3.3	3.7
122°	0.0	0.0	0.1	1.0	2.5	3.3	3.7
122.5°	0.0	0.0	0.1	1.0	2.5	3.3	3.7
123°	0.0	0.0	0.1	1.0	2.5	3.3	3.7
123.5°	0.0	0.0	0.1	1.1	2.5	3.3	3.7
124°	0.0	0.0	0.1	1.1	2.5	3.3	3.7
124.5°	0.0	0.0	0.1	1.1	2.5	3.4	3.7
125°	0.0	0.0	0.1	1.1	2.5	3.4	3.7
125.5°	0.0	0.0	0.2	1.1	2.5	3.4	3.7
126°	0.0	0.0	0.2	1.1	2.5	3.4	3.7
126.5°	0.0	0.0	0.2	1.2	2.6	3.4	3.7
127°	0.0	0.0	0.2	1.2	2.6	3.4	3.7
127.5°	0.0	0.0	0.2	1.2	2.6	3.4	3.7
128°	0.0	0.0	0.2	1.2	2.6	3.4	3.7
128.5°	0.0	0.0	0.2	1.2	2.6	3.4	3.7
129°	0.0	0.0	0.3	1.3	2.6	3.4	3.7
129.5°	0.0	0.0	0.3	1.3	2.6	3.4	3.7
130°	0.0	0.0	0.3	1.3	2.6	3.4	3.7
130.5°	0.0	0.0	0.3	1.3	2.6	3.4	3.7
131°	0.0	0.0	0.3	1.3	2.6	3.4	3.7
131.5°	0.0	0.0	0.4	1.3	2.6	3.4	3.7
132°	0.0	0.0	0.4	1.3	2.6	3.4	3.7
132.5°	0.0	0.0	0.4	1.3	2.6	3.4	3.7
133°	0.0	0.0	0.4	1.4	2.6	3.4	3.7
133.5°	0.0	0.0	0.4	1.4	2.7	3.4	3.7
134°	0.0	0.0	0.5	1.4	2.6	3.4	3.7
134.5°	0.0	0.0	0.5	1.4	2.7	3.4	3.7

REPORT NUMBER: P1197033

CATALOG NUMBER: AWP28S-BZ-MID-5000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	0.0	0.0	0.5	1.4	2.7	3.4	3.7
135.5°	0.0	0.0	0.5	1.4	2.7	3.4	3.7
136°	0.0	0.0	0.5	1.5	2.7	3.4	3.7
136.5°	0.0	0.0	0.6	1.5	2.7	3.4	3.7
137°	0.0	0.0	0.6	1.5	2.7	3.4	3.7
137.5°	0.0	0.0	0.6	1.5	2.7	3.4	3.7
138°	0.0	0.0	0.6	1.5	2.7	3.4	3.7
138.5°	0.0	0.0	0.6	1.6	2.7	3.4	3.7
139°	0.0	0.0	0.6	1.6	2.7	3.4	3.7
139.5°	0.0	0.0	0.7	1.6	2.7	3.4	3.7
140°	0.0	0.0	0.7	1.6	2.7	3.4	3.7
140.5°	0.0	0.0	0.7	1.6	2.7	3.4	3.7
141°	0.0	0.0	0.7	1.6	2.7	3.4	3.6
141.5°	0.0	0.0	0.8	1.6	2.7	3.4	3.6
142°	0.0	0.0	0.8	1.6	2.7	3.4	3.6
142.5°	0.0	0.0	0.8	1.7	2.7	3.4	3.6
143°	0.0	0.0	0.8	1.7	2.7	3.4	3.6
143.5°	0.0	0.0	0.9	1.7	2.7	3.4	3.6
144°	0.0	0.0	0.9	1.7	2.7	3.4	3.5
144.5°	0.0	0.1	0.9	1.7	2.7	3.4	3.5
145°	0.0	0.1	0.9	1.7	2.7	3.4	3.5
145.5°	0.0	0.1	0.9	1.7	2.7	3.4	3.5
146°	0.0	0.1	1.0	1.8	2.7	3.4	3.5
146.5°	0.0	0.1	1.0	1.8	2.7	3.3	3.5
147°	0.0	0.1	1.0	1.8	2.7	3.3	3.4
147.5°	0.0	0.2	1.0	1.8	2.7	3.3	3.4
148°	0.0	0.2	1.0	1.8	2.7	3.3	3.4
148.5°	0.0	0.2	1.1	1.8	2.7	3.3	3.4
149°	0.1	0.2	1.1	1.8	2.7	3.3	3.4
149.5°	0.1	0.3	1.1	1.8	2.7	3.3	3.4
150°	0.1	0.3	1.1	1.8	2.7	3.3	3.3
150.5°	0.1	0.4	1.2	1.9	2.7	3.3	3.3
151°	0.1	0.4	1.2	1.9	2.7	3.3	3.3
151.5°	0.1	0.4	1.2	1.9	2.7	3.3	3.3
152°	0.2	0.4	1.2	1.9	2.7	3.3	3.3
152.5°	0.2	0.4	1.2	1.9	2.7	3.3	3.2
153°	0.2	0.4	1.3	1.9	2.7	3.3	3.2
153.5°	0.2	0.4	1.3	2.0	2.7	3.3	3.2
154°	0.2	0.5	1.3	2.0	2.7	3.2	3.2
154.5°	0.2	0.5	1.3	2.0	2.7	3.2	3.1
155°	0.3	0.5	1.3	2.0	2.7	3.2	3.1
155.5°	0.3	0.5	1.4	2.0	2.7	3.2	3.1
156°	0.3	0.6	1.4	2.0	2.7	3.2	3.1
156.5°	0.3	0.6	1.4	2.0	2.7	3.2	3.1
157°	0.3	0.6	1.4	2.0	2.7	3.2	3.0

REPORT NUMBER: P1197033

CATALOG NUMBER: AWP28S-BZ-MID-5000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	0.4	0.7	1.4	2.0	2.7	3.1	3.0
158°	0.4	0.7	1.5	2.0	2.7	3.1	3.0
158.5°	0.4	0.7	1.5	2.0	2.7	3.1	3.0
159°	0.4	0.7	1.5	2.1	2.7	3.1	2.9
159.5°	0.5	0.7	1.5	2.1	2.7	3.1	2.9
160°	0.5	0.8	1.5	2.1	2.7	3.1	2.9
160.5°	0.5	0.8	1.6	2.1	2.7	3.1	2.9
161°	0.5	0.8	1.6	2.1	2.7	3.0	2.9
161.5°	0.5	0.9	1.6	2.1	2.7	3.0	2.8
162°	0.6	0.9	1.6	2.1	2.7	3.0	2.8
162.5°	0.6	0.9	1.6	2.1	2.7	3.0	2.8
163°	0.6	1.0	1.7	2.1	2.7	3.0	2.7
163.5°	0.6	1.0	1.7	2.1	2.7	3.0	2.7
164°	0.6	1.0	1.7	2.2	2.7	3.0	2.7
164.5°	0.7	1.0	1.7	2.2	2.7	3.0	2.6
165°	0.7	1.1	1.7	2.2	2.6	2.9	2.6
165.5°	0.7	1.1	1.8	2.2	2.7	2.9	2.6
166°	0.8	1.1	1.8	2.2	2.7	2.9	2.6
166.5°	0.8	1.1	1.8	2.2	2.7	2.9	2.5
167°	0.8	1.2	1.8	2.3	2.6	2.9	2.5
167.5°	0.8	1.2	1.8	2.3	2.6	2.9	2.5
168°	0.9	1.2	1.8	2.3	2.6	2.9	2.4
168.5°	0.9	1.2	1.9	2.3	2.6	2.9	2.4
169°	0.9	1.3	1.9	2.3	2.6	2.9	2.4
169.5°	1.0	1.3	1.9	2.3	2.6	2.9	2.3
170°	1.0	1.3	1.9	2.3	2.6	2.8	2.3
170.5°	1.0	1.4	2.0	2.3	2.6	2.8	2.3
171°	1.0	1.4	2.0	2.3	2.6	2.8	2.2
171.5°	1.1	1.4	2.0	2.3	2.6	2.8	2.2
172°	1.1	1.4	2.0	2.3	2.6	2.7	2.2
172.5°	1.1	1.5	2.0	2.3	2.6	2.7	2.1
173°	1.1	1.5	2.1	2.3	2.6	2.7	2.1
173.5°	1.2	1.6	2.1	2.3	2.6	2.7	2.1
174°	1.2	1.6	2.1	2.3	2.6	2.6	2.0
174.5°	1.2	1.6	2.1	2.3	2.6	2.6	2.0
175°	1.3	1.6	2.1	2.3	2.5	2.6	1.9
175.5°	1.3	1.7	2.1	2.3	2.5	2.6	1.9
176°	1.3	1.7	2.2	2.3	2.5	2.6	1.9
176.5°	1.4	1.7	2.2	2.3	2.5	2.5	1.8
177°	1.4	1.7	2.2	2.3	2.5	2.5	1.8
177.5°	1.4	1.8	2.2	2.3	2.5	2.5	1.8
178°	1.4	1.8	2.2	2.4	2.5	2.5	1.7
178.5°	1.5	1.8	2.2	2.4	2.4	2.4	1.7
179°	1.5	1.8	2.2	2.4	2.4	2.4	1.7
179.5°	1.5	1.9	2.2	2.4	2.4	2.4	1.6



REPORT NUMBER: P1197033
CATALOG NUMBER: AWPf28S-BZ-MID-5000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	1.6	1.6	1.6	1.6	1.6	1.6	1.6

(END OF REPORT)