

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: P1197151

Luminaire Tested: AWPS28S-BZ-HIGH-3000K-POSITION 15

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197151
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: AWPS28S-BZ-HIGH-3000K-POSITION 15
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 3000K
Ballast/Driver: -

Summary

Lumens per Lamp: 3604 (1 lamp)
Luminaire Lumens: 3604.5 lumens
Efficiency: 100.0%
Efficacy: 123.0 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): 29.3
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

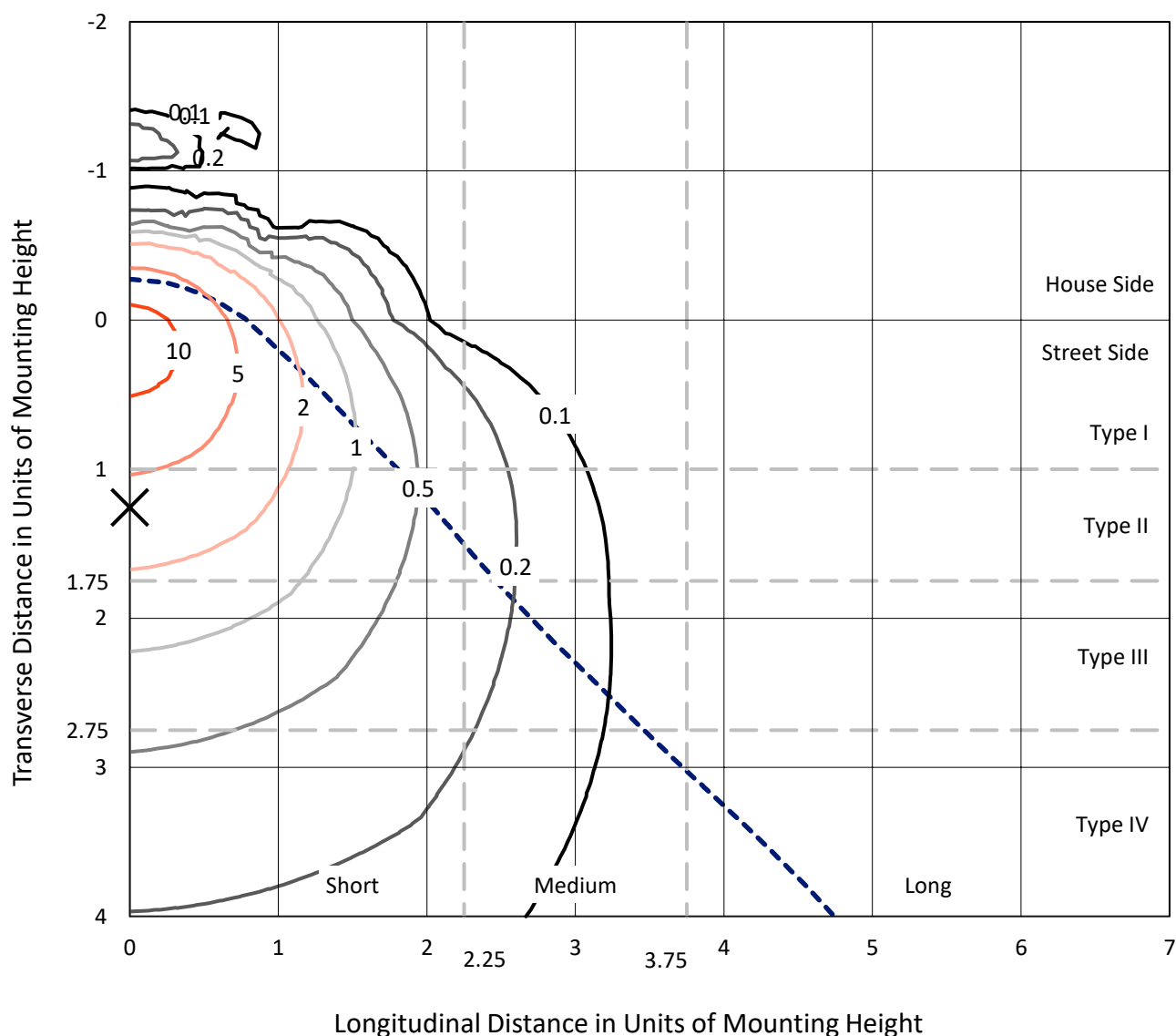
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

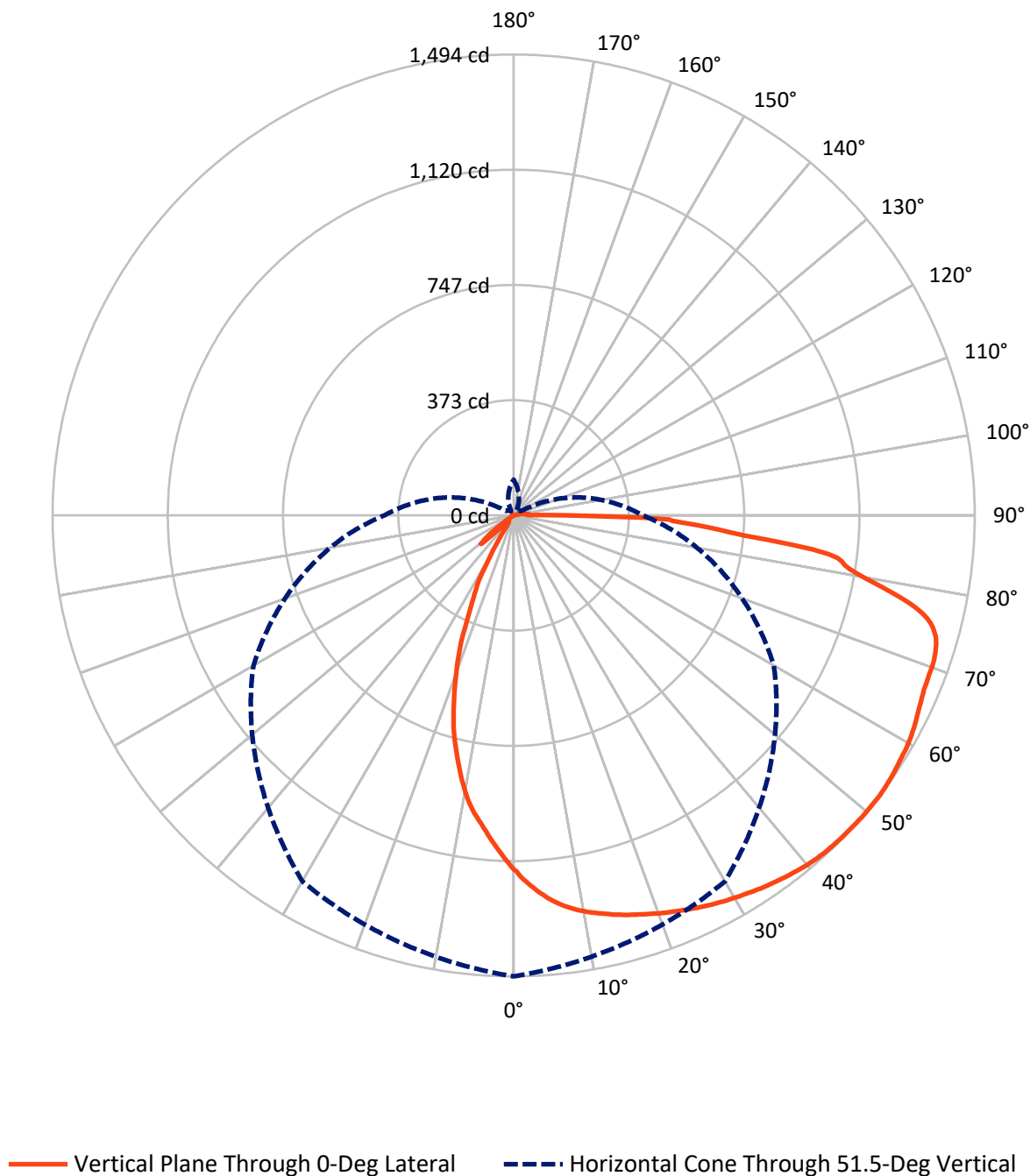


Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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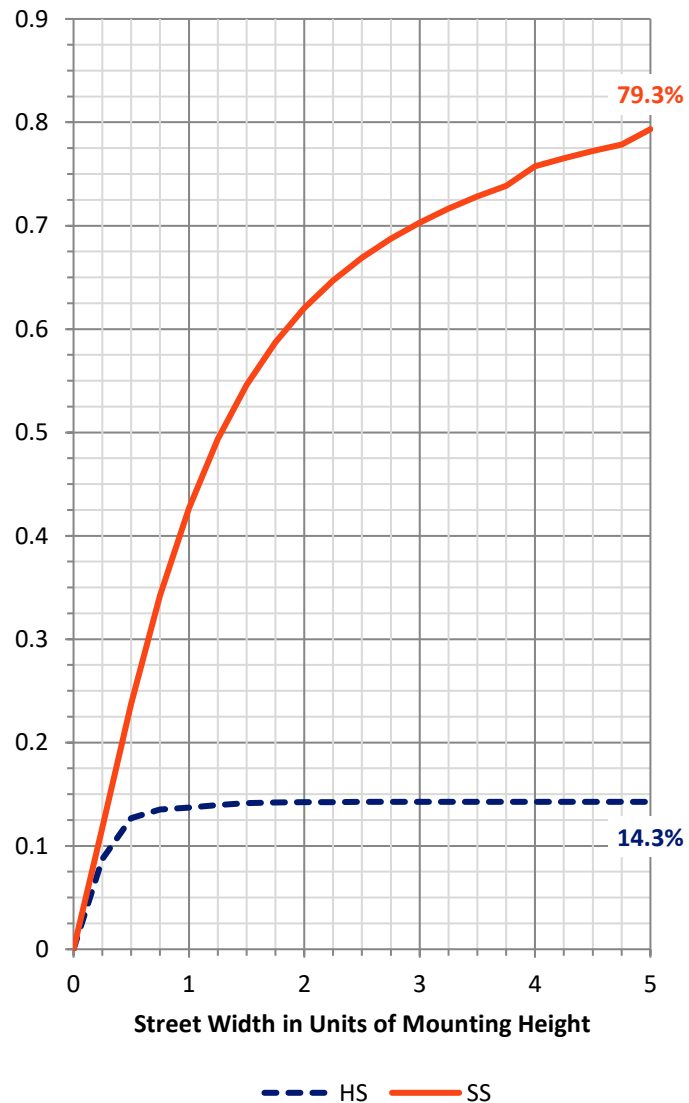
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	520.0	8.1	528.1
	% Lamp	14.4	0.2	14.7
Street Side	Lumens	3047.8	28.7	3076.5
	% Lamp	84.6	0.8	85.4
Total	Lumens	3567.8	36.7	3604.5
	% Lamp	99.0	1.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	108.5	3.0	3.0
10°-20°	302.2	8.4	8.4
20°-30°	428.9	11.9	11.9
30°-40°	479.7	13.3	13.3
40°-50°	503.6	14.0	14.0
50°-60°	513.9	14.3	14.3
60°-70°	482.4	13.4	13.4
70°-80°	452.7	12.6	12.6
80°-90°	295.8	8.2	8.2
90°-100°	25.5	0.7	0.7
100°-110°	3.3	0.1	0.1
110°-120°	1.4	0.0	0.0
120°-130°	1.5	0.0	0.0
130°-140°	1.5	0.0	0.0
140°-150°	1.4	0.0	0.0
150°-160°	1.1	0.0	0.0
160°-170°	0.8	0.0	0.0
170°-180°	0.3	0.0	0.0
0°-90°	3567.8	99.0	99.0
0°-180°	3604.5	100.0	100.0

Coefficient of Utilization



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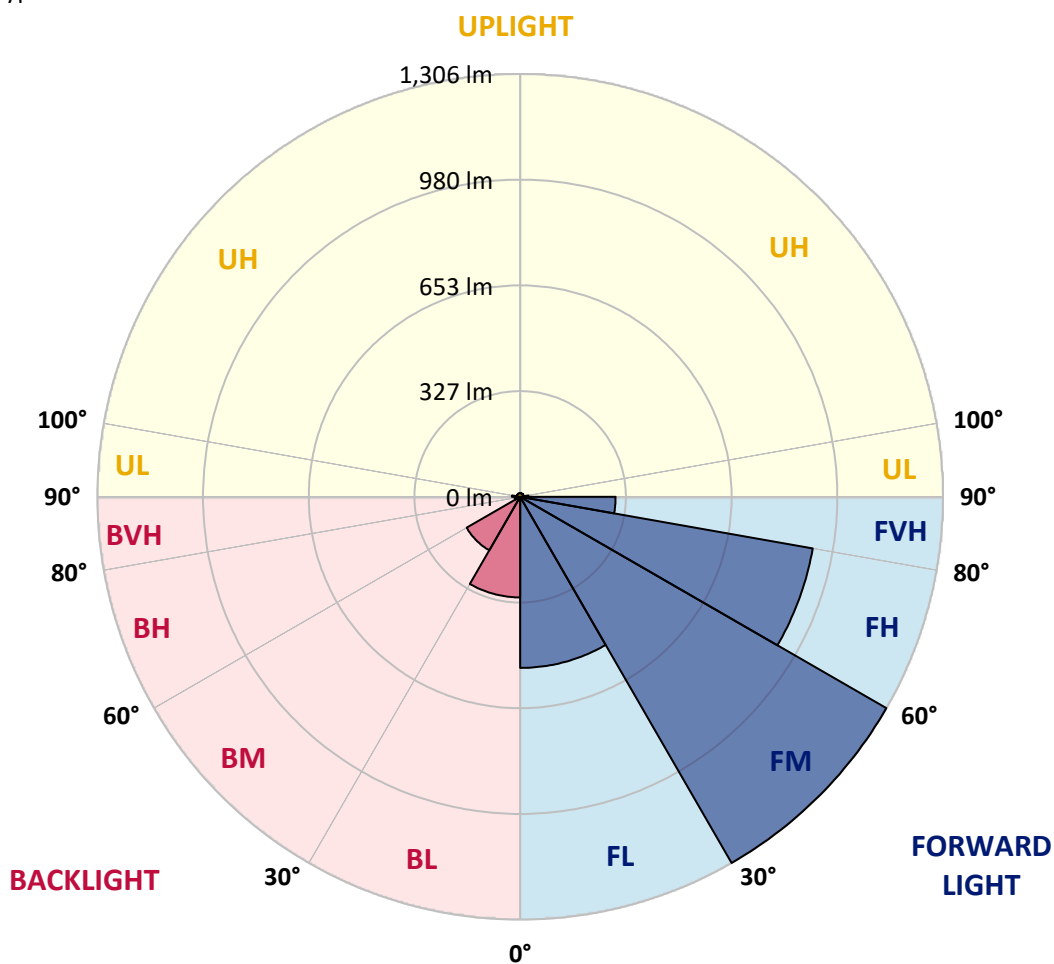
CATALOG NUMBER: AWPS28S-BZ-HIGH-3000K-POSITION 15

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	528.6	14.7			
FM	(30°-60°)	1306.5	36.3			
FH	(60°-80°)	917.9	25.5			G1/1800
FVH	(80°-90°)	294.8	8.2			G3/500
BL	(0°-30°)	311.0	8.6	B1/500		
BM	(30°-60°)	190.8	5.3	B0/220		
BH	(60°-80°)	17.2	0.5	B0/110		G0/110
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	25.5	0.7		U2/50	
UH	(100°-180°)	11.2	0.3		U2/50	
Trapped Light		-0.5	0.0			

BUG Rating: B1-U2-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	1154.1	1154.1	1154.1	1154.1	1154.1	1154.1	1154.1
0.5°	1168.7	1169.7	1162.5	1154.4	1145.2	1134.3	1146.2
1°	1178.7	1178.0	1167.8	1154.2	1139.5	1124.3	1134.6
1.5°	1188.4	1186.4	1172.5	1153.8	1133.7	1114.0	1123.1
2°	1198.3	1194.9	1176.9	1153.6	1127.6	1103.5	1111.2
2.5°	1207.6	1203.0	1181.4	1153.2	1121.2	1093.4	1099.3
3°	1216.8	1210.6	1185.8	1152.6	1114.9	1082.7	1087.3
3.5°	1225.6	1218.2	1190.1	1151.7	1108.8	1072.4	1075.5
4°	1234.3	1225.5	1194.4	1150.9	1102.2	1062.0	1063.8
4.5°	1242.7	1232.7	1198.4	1149.6	1095.6	1051.4	1051.7
5°	1250.3	1239.5	1201.9	1148.4	1088.8	1040.9	1039.6
5.5°	1257.7	1245.9	1205.5	1147.0	1081.9	1030.4	1027.9
6°	1264.6	1252.1	1209.0	1145.6	1074.9	1020.0	1016.3
6.5°	1270.9	1258.2	1212.5	1144.0	1067.8	1009.5	1004.7
7°	1277.3	1263.9	1215.9	1142.3	1060.6	999.0	993.8
7.5°	1282.7	1269.1	1219.2	1140.7	1053.4	988.8	982.9
8°	1287.5	1274.1	1222.5	1139.1	1046.5	979.0	972.7
8.5°	1293.0	1278.6	1225.8	1137.5	1039.1	969.4	961.8
9°	1297.6	1282.6	1228.7	1135.5	1031.4	959.9	949.9
9.5°	1301.9	1286.0	1231.4	1133.3	1023.7	949.7	936.1
10°	1306.2	1289.9	1233.9	1131.3	1015.9	938.3	922.2
10.5°	1310.3	1293.1	1236.6	1129.2	1008.1	925.5	906.6
11°	1313.9	1296.0	1238.9	1126.7	1000.3	912.8	890.6
11.5°	1317.6	1299.2	1241.0	1124.1	992.7	899.1	874.8
12°	1321.4	1302.3	1243.2	1121.2	984.7	884.0	858.9
12.5°	1325.3	1305.1	1245.1	1118.0	976.6	870.2	842.0
13°	1328.9	1307.9	1246.7	1114.6	968.9	856.0	825.1
13.5°	1332.8	1310.5	1247.9	1111.2	960.8	840.5	807.9
14°	1335.9	1313.1	1248.8	1107.7	952.9	825.2	791.3
14.5°	1339.5	1315.6	1249.9	1103.8	945.1	809.9	774.4
15°	1343.5	1318.1	1250.4	1099.8	937.0	794.7	758.3
15.5°	1346.7	1320.8	1250.7	1095.6	928.5	778.8	741.6
16°	1349.5	1322.9	1250.9	1091.6	919.7	763.8	723.9
16.5°	1352.4	1325.4	1250.6	1087.2	910.5	748.1	704.7
17°	1355.4	1327.8	1250.1	1082.9	900.4	732.9	684.5
17.5°	1358.9	1330.4	1249.2	1078.7	889.9	717.5	664.5
18°	1362.1	1332.5	1248.4	1074.0	879.3	700.5	644.7
18.5°	1365.3	1334.1	1247.8	1069.1	868.5	683.0	624.3
19°	1368.6	1336.0	1246.9	1064.2	857.3	664.8	604.6
19.5°	1372.4	1337.9	1245.5	1058.9	845.2	645.9	583.8
20°	1375.6	1339.8	1244.2	1053.6	833.3	626.9	563.4
20.5°	1378.7	1341.9	1243.0	1048.1	821.4	607.8	543.6
21°	1381.7	1343.9	1241.7	1042.9	809.3	588.3	524.0
21.5°	1384.8	1346.2	1240.4	1037.2	796.6	568.4	504.6
22°	1387.6	1348.4	1238.8	1030.9	784.0	549.6	484.3

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	1390.5	1350.6	1237.1	1024.2	770.9	530.7	463.8
23°	1393.8	1352.2	1234.9	1017.3	757.0	512.3	444.2
23.5°	1396.9	1354.2	1232.9	1010.0	743.0	494.6	418.2
24°	1399.9	1356.1	1230.5	1003.2	728.8	476.9	392.7
24.5°	1403.3	1357.8	1228.2	996.0	715.2	459.2	369.0
25°	1405.9	1359.4	1225.7	988.8	701.6	440.4	348.8
25.5°	1408.7	1361.3	1223.0	981.4	688.3	422.1	329.7
26°	1411.7	1362.7	1220.0	974.6	675.1	400.5	313.0
26.5°	1414.9	1364.2	1217.0	967.1	662.1	376.8	297.6
27°	1417.6	1365.9	1213.5	959.6	648.4	354.7	283.5
27.5°	1420.2	1367.7	1209.7	951.6	633.6	334.3	269.5
28°	1423.1	1368.7	1205.8	944.0	617.5	316.2	255.6
28.5°	1425.6	1370.1	1202.0	936.3	602.1	300.7	241.6
29°	1428.1	1371.4	1198.0	928.4	585.5	287.3	220.6
29.5°	1430.7	1372.6	1193.9	920.1	568.9	274.0	194.1
30°	1433.5	1373.3	1189.7	911.5	552.2	260.7	167.2
30.5°	1436.1	1374.3	1185.6	903.1	535.6	247.4	145.5
31°	1438.6	1375.5	1181.8	894.8	518.9	233.1	126.8
31.5°	1441.3	1376.5	1177.9	885.9	501.7	215.7	110.5
32°	1444.0	1377.6	1173.8	876.9	484.8	193.4	92.8
32.5°	1446.5	1377.9	1170.2	868.0	468.5	168.8	71.9
33°	1449.6	1378.9	1166.4	859.1	451.6	146.2	52.6
33.5°	1451.8	1379.6	1162.7	849.9	435.5	126.7	40.4
34°	1454.3	1380.3	1159.0	840.2	419.6	110.6	35.4
34.5°	1456.6	1380.9	1155.3	829.7	403.0	95.6	33.4
35°	1458.9	1381.5	1151.7	819.2	386.2	79.3	32.4
35.5°	1461.3	1382.4	1148.0	808.6	371.1	61.8	31.6
36°	1463.7	1382.9	1144.3	797.7	355.7	47.7	30.8
36.5°	1465.7	1383.0	1140.1	786.3	341.9	38.9	30.1
37°	1467.8	1383.2	1135.9	775.0	327.7	35.0	29.1
37.5°	1470.1	1383.5	1131.6	764.3	314.1	33.3	28.1
38°	1472.4	1384.0	1127.8	752.2	300.7	32.0	27.1
38.5°	1474.6	1384.4	1123.2	740.4	287.8	31.2	26.0
39°	1476.4	1384.8	1118.3	728.2	274.5	30.6	25.2
39.5°	1478.5	1384.7	1113.6	715.9	261.5	29.8	24.7
40°	1480.1	1384.6	1109.9	703.5	248.6	29.1	24.4
40.5°	1481.6	1384.5	1105.1	691.1	233.6	28.5	24.3
41°	1483.2	1384.3	1100.4	678.1	219.6	28.0	24.1
41.5°	1484.2	1384.1	1095.2	665.6	206.1	27.6	23.9
42°	1485.5	1383.3	1089.7	652.7	190.0	27.3	23.6
42.5°	1486.2	1382.7	1083.8	639.2	172.0	26.9	23.1
43°	1487.0	1382.1	1079.1	626.6	152.4	26.4	22.6
43.5°	1487.9	1381.9	1073.6	614.2	130.8	25.6	22.1
44°	1488.5	1381.4	1068.3	601.4	108.7	24.7	21.6
44.5°	1489.1	1381.2	1062.9	589.0	87.8	23.8	21.4

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	1489.8	1380.7	1057.4	576.0	71.7	22.9	21.3
45.5°	1489.8	1380.0	1052.1	563.5	60.6	21.9	21.7
46°	1490.2	1379.8	1046.4	551.2	53.6	20.9	23.0
46.5°	1490.5	1379.3	1040.5	539.0	48.8	20.0	26.9
47°	1491.2	1378.6	1034.5	526.9	45.3	19.3	41.0
47.5°	1491.8	1377.7	1028.1	514.6	42.3	18.5	66.0
48°	1492.0	1377.0	1022.0	502.6	40.0	17.8	90.2
48.5°	1492.5	1376.1	1015.3	490.0	38.2	17.3	106.7
49°	1493.0	1375.2	1008.5	478.3	36.5	17.1	136.6
49.5°	1492.8	1373.9	1001.5	466.3	35.1	16.8	141.5
50°	1493.1	1372.5	994.7	454.7	33.8	16.6	132.1
50.5°	1493.2	1371.4	987.4	442.7	31.9	16.4	127.4
51°	1493.4	1370.1	980.1	430.4	30.6	16.2	122.8
51.5°	1493.5	1369.0	973.2	418.2	29.6	16.0	116.0
52°	1493.0	1368.0	965.3	406.6	28.6	16.1	107.0
52.5°	1492.3	1366.8	957.4	394.1	27.9	16.8	94.7
53°	1491.9	1365.8	950.0	381.8	27.2	19.0	82.8
53.5°	1491.1	1364.8	942.1	368.9	26.5	26.6	70.4
54°	1490.1	1363.6	934.1	356.4	25.6	41.5	58.0
54.5°	1489.1	1362.7	926.3	342.8	24.6	54.0	47.7
55°	1487.9	1361.6	918.6	329.2	23.9	58.1	39.7
55.5°	1486.7	1360.2	910.8	315.6	23.1	71.2	33.6
56°	1485.5	1359.0	902.7	301.1	22.4	76.3	28.5
56.5°	1484.0	1357.6	894.7	285.9	21.8	70.1	24.2
57°	1482.5	1355.9	886.4	270.6	21.2	66.2	20.3
57.5°	1481.3	1353.9	878.5	255.4	20.6	63.3	17.0
58°	1480.2	1351.2	870.8	240.1	20.0	61.4	14.4
58.5°	1479.4	1348.1	862.5	224.9	19.4	59.6	12.4
59°	1478.0	1345.3	854.0	209.2	18.8	57.4	10.8
59.5°	1476.3	1342.3	845.6	193.9	18.2	54.8	9.5
60°	1474.5	1339.4	837.3	179.3	17.6	52.1	8.6
60.5°	1472.7	1336.0	828.9	166.4	17.1	48.9	7.8
61°	1470.2	1332.6	820.9	156.9	16.5	45.3	7.1
61.5°	1467.9	1329.6	812.6	148.5	15.9	41.9	6.5
62°	1465.8	1326.3	804.7	143.6	15.2	38.4	5.9
62.5°	1463.1	1322.9	796.6	141.0	14.5	34.6	5.4
63°	1460.2	1319.9	788.0	134.5	13.9	30.9	4.7
63.5°	1457.5	1316.9	779.4	118.4	13.3	27.2	4.1
64°	1454.7	1314.0	771.2	97.1	12.6	23.6	3.4
64.5°	1452.5	1311.2	763.4	80.8	11.8	20.3	2.8
65°	1450.2	1308.8	755.5	72.9	11.0	17.3	2.4
65.5°	1447.7	1306.3	747.3	69.4	10.4	14.1	2.3
66°	1445.9	1303.5	738.9	67.2	9.7	10.5	2.2
66.5°	1444.4	1300.4	730.5	65.3	9.2	6.3	2.1
67°	1443.6	1297.4	721.7	63.4	8.8	2.9	1.9

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	1443.0	1294.1	712.7	61.7	8.3	1.7	1.7
68°	1442.1	1291.5	703.2	60.1	7.8	1.5	1.4
68.5°	1441.4	1288.4	694.1	58.5	7.4	1.4	1.2
69°	1440.9	1285.6	684.6	57.0	7.0	1.4	1.2
69.5°	1441.2	1283.2	674.3	55.7	6.6	1.4	1.3
70°	1441.0	1280.2	664.6	54.6	6.2	1.3	1.3
70.5°	1440.2	1276.8	655.1	53.5	5.6	1.0	1.2
71°	1438.3	1273.0	646.1	52.3	5.0	0.9	1.0
71.5°	1436.8	1270.2	637.1	51.1	4.5	0.8	1.0
72°	1434.1	1268.6	627.1	50.0	3.7	0.8	0.9
72.5°	1431.1	1268.9	618.2	48.9	3.2	0.8	0.9
73°	1427.1	1269.5	608.8	47.5	2.9	0.8	0.8
73.5°	1422.0	1271.5	600.0	46.3	2.6	0.8	0.8
74°	1414.1	1273.5	590.3	45.5	2.3	0.8	0.8
74.5°	1405.9	1276.7	580.6	44.3	2.0	0.7	0.8
75°	1395.1	1280.2	572.4	41.8	1.8	0.7	0.8
75.5°	1380.8	1283.3	564.2	38.9	1.5	0.7	0.8
76°	1362.2	1285.0	556.0	35.8	1.2	0.7	0.8
76.5°	1340.0	1284.3	547.8	32.8	1.0	0.7	0.8
77°	1312.6	1282.2	539.7	28.8	0.8	0.7	0.8
77.5°	1282.3	1280.4	533.1	25.2	0.8	0.7	0.8
78°	1248.1	1277.1	526.5	22.6	0.7	0.7	0.9
78.5°	1214.7	1276.3	520.7	20.4	0.6	0.7	0.9
79°	1181.1	1275.2	515.0	18.6	0.5	0.7	1.0
79.5°	1149.7	1273.9	509.0	17.0	0.5	0.6	1.0
80°	1121.7	1267.2	502.9	15.4	0.5	0.6	1.1
80.5°	1100.2	1256.1	497.0	14.1	0.5	0.6	1.1
81°	1083.6	1235.6	492.1	13.0	0.5	0.6	1.1
81.5°	1074.4	1201.1	488.7	11.6	0.5	0.7	1.2
82°	1058.4	1147.4	488.1	10.4	0.5	0.7	1.2
82.5°	1027.2	1077.2	490.4	9.4	0.5	0.7	1.2
83°	973.0	994.1	495.9	8.5	0.5	0.7	1.3
83.5°	902.1	898.1	504.8	7.8	0.5	0.7	1.3
84°	825.2	805.6	514.6	7.1	0.5	0.7	1.3
84.5°	755.3	736.6	520.1	6.5	0.5	0.7	1.4
85°	704.0	688.3	523.7	6.0	0.5	0.7	1.4
85.5°	666.2	644.8	526.2	5.5	0.5	0.7	1.5
86°	628.4	595.3	523.4	5.0	0.5	0.8	1.5
86.5°	590.7	575.2	513.3	4.5	0.5	0.8	1.6
87°	553.0	597.9	497.9	4.1	0.5	0.8	1.6
87.5°	516.3	624.7	476.3	3.7	0.6	0.9	1.7
88°	504.6	624.9	446.2	3.2	0.6	0.9	1.7
88.5°	416.4	559.5	408.2	2.8	0.6	1.0	1.8
89°	270.9	431.1	362.0	2.4	0.6	1.0	1.8
89.5°	170.7	287.9	310.1	2.1	0.7	1.0	1.9

REPORT NUMBER: P1197151

CATALOG NUMBER: AWPS28S-BZ-HIGH-3000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	97.4	223.5	257.8	1.6	0.7	1.1	1.9
90.5°	54.2	162.8	209.5	1.3	0.7	1.1	2.0
91°	45.8	102.3	169.8	1.2	0.7	1.2	2.0
91.5°	47.1	41.8	136.0	1.0	0.8	1.2	2.1
92°	47.4	37.1	108.2	0.9	0.8	1.3	2.1
92.5°	46.2	34.9	86.8	0.9	0.9	1.3	2.2
93°	45.9	33.6	71.2	0.8	0.9	1.4	2.2
93.5°	48.6	33.6	58.5	0.7	0.9	1.4	2.3
94°	49.6	35.3	47.2	0.7	1.0	1.4	2.3
94.5°	45.8	35.4	41.7	0.7	1.0	1.5	2.4
95°	40.4	33.0	41.9	0.7	1.0	1.5	2.4
95.5°	36.3	30.6	43.2	0.7	1.1	1.6	2.5
96°	35.5	29.4	45.0	0.7	1.1	1.6	2.5
96.5°	35.8	27.1	47.8	0.7	1.1	1.7	2.6
97°	33.8	24.4	47.5	0.7	1.2	1.7	2.6
97.5°	31.0	22.9	37.4	0.7	1.2	1.8	2.7
98°	29.9	22.7	26.2	0.6	1.2	1.8	2.7
98.5°	29.2	23.0	18.5	0.6	1.3	1.9	2.8
99°	28.4	23.3	15.5	0.6	1.3	1.9	2.8
99.5°	26.8	23.1	13.3	0.6	1.4	1.9	2.8
100°	24.5	22.3	11.4	0.6	1.4	2.0	2.8
100.5°	21.4	20.7	9.5	0.6	1.4	2.0	2.9
101°	18.2	18.6	8.3	0.6	1.5	2.1	2.9
101.5°	15.3	15.9	7.0	0.6	1.5	2.1	3.0
102°	13.0	12.7	5.6	0.6	1.5	2.2	3.0
102.5°	11.1	9.2	4.4	0.6	1.6	2.2	3.0
103°	10.1	6.2	3.6	0.6	1.6	2.3	3.1
103.5°	9.5	4.2	3.0	0.6	1.7	2.3	3.1
104°	8.5	2.7	2.7	0.6	1.7	2.3	3.2
104.5°	7.0	2.1	2.3	0.6	1.7	2.4	3.2
105°	5.1	1.8	2.0	0.7	1.8	2.4	3.2
105.5°	3.2	1.5	1.7	0.7	1.8	2.5	3.2
106°	1.7	1.2	1.5	0.7	1.8	2.5	3.3
106.5°	0.9	0.9	1.3	0.7	1.9	2.6	3.3
107°	0.7	0.6	1.1	0.7	1.9	2.6	3.3
107.5°	0.4	0.4	0.9	0.7	1.9	2.6	3.4
108°	0.3	0.2	0.7	0.8	2.0	2.7	3.4
108.5°	0.1	0.1	0.6	0.8	2.0	2.7	3.4
109°	0.0	0.0	0.5	0.8	2.0	2.7	3.5
109.5°	0.0	0.0	0.5	0.8	2.1	2.8	3.5
110°	0.0	0.0	0.4	0.8	2.1	2.8	3.5
110.5°	0.0	0.0	0.4	0.9	2.1	2.8	3.5
111°	0.0	0.0	0.3	0.9	2.1	2.8	3.5
111.5°	0.0	0.0	0.2	0.9	2.2	2.9	3.5
112°	0.0	0.0	0.2	0.9	2.2	2.9	3.6

REPORT NUMBER: P1197151

CATALOG NUMBER: AWPS28S-BZ-HIGH-3000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	0.0	0.0	0.2	0.9	2.2	2.9	3.6
113°	0.0	0.0	0.2	0.9	2.2	2.9	3.6
113.5°	0.0	0.0	0.2	1.0	2.3	3.0	3.6
114°	0.0	0.0	0.2	1.0	2.3	3.0	3.6
114.5°	0.0	0.0	0.2	1.0	2.3	3.0	3.6
115°	0.0	0.0	0.2	1.0	2.3	3.0	3.6
115.5°	0.0	0.0	0.2	1.0	2.4	3.0	3.7
116°	0.0	0.0	0.2	1.0	2.4	3.1	3.7
116.5°	0.0	0.0	0.2	1.0	2.4	3.1	3.7
117°	0.0	0.0	0.2	1.1	2.5	3.1	3.7
117.5°	0.0	0.0	0.2	1.1	2.5	3.1	3.7
118°	0.0	0.0	0.2	1.1	2.5	3.2	3.7
118.5°	0.0	0.0	0.2	1.1	2.5	3.2	3.7
119°	0.0	0.0	0.2	1.1	2.5	3.2	3.7
119.5°	0.0	0.0	0.2	1.2	2.6	3.2	3.7
120°	0.0	0.0	0.3	1.2	2.6	3.2	3.7
120.5°	0.0	0.0	0.3	1.2	2.6	3.3	3.7
121°	0.0	0.0	0.3	1.2	2.6	3.3	3.7
121.5°	0.0	0.0	0.3	1.3	2.7	3.3	3.8
122°	0.0	0.0	0.3	1.3	2.7	3.3	3.8
122.5°	0.0	0.0	0.4	1.3	2.7	3.3	3.8
123°	0.0	0.0	0.4	1.3	2.7	3.4	3.8
123.5°	0.0	0.0	0.4	1.3	2.7	3.4	3.8
124°	0.0	0.0	0.4	1.3	2.7	3.4	3.8
124.5°	0.0	0.0	0.4	1.4	2.8	3.4	3.8
125°	0.0	0.0	0.5	1.4	2.8	3.5	3.8
125.5°	0.0	0.0	0.5	1.4	2.8	3.5	3.8
126°	0.0	0.0	0.5	1.4	2.8	3.5	3.8
126.5°	0.0	0.0	0.5	1.4	2.8	3.5	3.8
127°	0.0	0.0	0.5	1.5	2.8	3.5	3.8
127.5°	0.0	0.0	0.6	1.5	2.9	3.5	3.8
128°	0.0	0.0	0.6	1.5	2.9	3.5	3.8
128.5°	0.0	0.0	0.6	1.6	2.9	3.5	3.8
129°	0.0	0.0	0.6	1.6	2.9	3.5	3.8
129.5°	0.0	0.0	0.7	1.6	2.9	3.5	3.8
130°	0.0	0.0	0.7	1.6	2.9	3.6	3.8
130.5°	0.0	0.0	0.7	1.6	2.9	3.6	3.8
131°	0.0	0.0	0.7	1.6	2.9	3.6	3.8
131.5°	0.0	0.0	0.8	1.7	2.9	3.6	3.9
132°	0.0	0.0	0.8	1.7	2.9	3.6	3.9
132.5°	0.0	0.0	0.8	1.7	2.9	3.6	3.9
133°	0.0	0.1	0.8	1.7	2.9	3.6	3.9
133.5°	0.0	0.1	0.9	1.7	2.9	3.6	3.9
134°	0.0	0.1	0.9	1.8	3.0	3.6	3.9
134.5°	0.0	0.1	0.9	1.8	3.0	3.6	3.9

REPORT NUMBER: P1197151

CATALOG NUMBER: AWPS28S-BZ-HIGH-3000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	0.1	0.1	0.9	1.8	3.0	3.6	3.9
135.5°	0.1	0.1	0.9	1.8	3.0	3.6	3.9
136°	0.1	0.2	1.0	1.8	3.0	3.6	3.9
136.5°	0.1	0.2	1.0	1.9	3.0	3.6	3.9
137°	0.1	0.2	1.0	1.9	3.0	3.6	3.9
137.5°	0.1	0.2	1.1	1.9	3.0	3.6	3.9
138°	0.1	0.2	1.1	1.9	3.0	3.6	3.9
138.5°	0.1	0.3	1.1	1.9	3.1	3.6	3.9
139°	0.2	0.3	1.1	2.0	3.1	3.6	3.9
139.5°	0.2	0.3	1.1	2.0	3.1	3.6	3.9
140°	0.2	0.4	1.2	2.0	3.1	3.6	3.9
140.5°	0.2	0.4	1.2	2.0	3.1	3.6	3.9
141°	0.2	0.4	1.2	2.1	3.1	3.6	3.9
141.5°	0.2	0.4	1.2	2.1	3.1	3.6	3.9
142°	0.3	0.4	1.3	2.1	3.1	3.6	3.9
142.5°	0.3	0.5	1.3	2.1	3.1	3.7	3.9
143°	0.3	0.5	1.3	2.1	3.1	3.7	3.9
143.5°	0.3	0.5	1.3	2.1	3.1	3.7	3.9
144°	0.3	0.5	1.4	2.2	3.1	3.7	3.9
144.5°	0.4	0.6	1.4	2.2	3.1	3.7	3.8
145°	0.4	0.6	1.4	2.2	3.1	3.7	3.8
145.5°	0.4	0.6	1.4	2.2	3.2	3.7	3.8
146°	0.4	0.7	1.5	2.2	3.2	3.7	3.8
146.5°	0.4	0.7	1.5	2.2	3.2	3.7	3.8
147°	0.5	0.7	1.5	2.3	3.2	3.7	3.8
147.5°	0.5	0.7	1.5	2.3	3.2	3.7	3.8
148°	0.5	0.8	1.6	2.3	3.2	3.7	3.8
148.5°	0.5	0.8	1.6	2.3	3.2	3.7	3.8
149°	0.6	0.8	1.6	2.3	3.2	3.7	3.8
149.5°	0.6	0.9	1.6	2.3	3.2	3.7	3.8
150°	0.6	0.9	1.7	2.4	3.2	3.7	3.7
150.5°	0.6	0.9	1.7	2.4	3.2	3.7	3.7
151°	0.7	1.0	1.7	2.4	3.3	3.7	3.7
151.5°	0.7	1.0	1.7	2.4	3.3	3.7	3.7
152°	0.7	1.0	1.8	2.5	3.3	3.7	3.7
152.5°	0.8	1.1	1.8	2.5	3.3	3.7	3.7
153°	0.8	1.1	1.8	2.5	3.3	3.7	3.7
153.5°	0.8	1.1	1.8	2.5	3.3	3.7	3.7
154°	0.8	1.1	1.9	2.5	3.3	3.7	3.7
154.5°	0.9	1.2	1.9	2.5	3.3	3.7	3.6
155°	0.9	1.2	1.9	2.6	3.3	3.6	3.6
155.5°	0.9	1.3	1.9	2.6	3.3	3.6	3.6
156°	0.9	1.3	2.0	2.6	3.3	3.6	3.6
156.5°	1.0	1.3	2.0	2.6	3.3	3.6	3.6
157°	1.0	1.3	2.0	2.6	3.3	3.6	3.6

REPORT NUMBER: P1197151

CATALOG NUMBER: AWPS28S-BZ-HIGH-3000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	1.0	1.3	2.0	2.6	3.3	3.6	3.6
158°	1.1	1.4	2.0	2.6	3.3	3.6	3.6
158.5°	1.1	1.4	2.1	2.7	3.3	3.6	3.6
159°	1.1	1.4	2.1	2.7	3.3	3.6	3.6
159.5°	1.1	1.5	2.1	2.7	3.3	3.6	3.6
160°	1.2	1.5	2.1	2.7	3.3	3.6	3.5
160.5°	1.2	1.5	2.2	2.7	3.3	3.6	3.5
161°	1.2	1.5	2.2	2.7	3.3	3.6	3.5
161.5°	1.2	1.6	2.2	2.8	3.3	3.6	3.5
162°	1.3	1.6	2.2	2.8	3.3	3.6	3.5
162.5°	1.3	1.6	2.3	2.8	3.3	3.6	3.5
163°	1.3	1.7	2.3	2.8	3.3	3.6	3.4
163.5°	1.4	1.7	2.3	2.8	3.3	3.5	3.4
164°	1.4	1.7	2.3	2.8	3.3	3.5	3.4
164.5°	1.4	1.7	2.4	2.8	3.3	3.5	3.4
165°	1.5	1.8	2.4	2.8	3.3	3.5	3.4
165.5°	1.5	1.8	2.4	2.8	3.3	3.5	3.3
166°	1.5	1.9	2.4	2.9	3.3	3.5	3.3
166.5°	1.6	1.9	2.5	2.9	3.3	3.5	3.3
167°	1.6	1.9	2.5	2.9	3.3	3.5	3.3
167.5°	1.6	1.9	2.5	2.9	3.3	3.5	3.3
168°	1.7	2.0	2.5	2.9	3.3	3.5	3.3
168.5°	1.7	2.0	2.6	2.9	3.3	3.5	3.2
169°	1.8	2.0	2.6	2.9	3.3	3.5	3.2
169.5°	1.8	2.1	2.6	2.9	3.3	3.4	3.2
170°	1.8	2.1	2.6	2.9	3.2	3.4	3.2
170.5°	1.9	2.1	2.7	3.0	3.2	3.4	3.1
171°	1.9	2.2	2.7	3.0	3.2	3.4	3.1
171.5°	1.9	2.2	2.7	3.0	3.2	3.4	3.1
172°	2.0	2.2	2.7	3.0	3.2	3.4	3.0
172.5°	2.0	2.3	2.7	3.0	3.2	3.3	3.0
173°	2.0	2.3	2.8	3.0	3.2	3.3	3.0
173.5°	2.1	2.3	2.8	3.0	3.2	3.3	3.0
174°	2.1	2.3	2.8	3.0	3.2	3.3	2.9
174.5°	2.1	2.4	2.8	3.0	3.2	3.3	2.9
175°	2.2	2.4	2.8	3.0	3.2	3.3	2.9
175.5°	2.2	2.5	2.9	3.0	3.2	3.2	2.9
176°	2.3	2.5	2.9	3.0	3.2	3.2	2.8
176.5°	2.3	2.5	2.9	3.0	3.2	3.2	2.8
177°	2.3	2.6	2.9	3.0	3.2	3.2	2.8
177.5°	2.4	2.6	2.9	3.0	3.2	3.2	2.7
178°	2.4	2.6	2.9	3.1	3.1	3.2	2.7
178.5°	2.5	2.6	2.9	3.1	3.1	3.1	2.7
179°	2.5	2.7	2.9	3.1	3.1	3.1	2.6
179.5°	2.5	2.7	2.9	3.1	3.1	3.1	2.6



REPORT NUMBER: P1197151
CATALOG NUMBER: AWPS28S-BZ-HIGH-3000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	2.6	2.6	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)