

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: P1197144

Luminaire Tested: AWPS28S-BZ-MID-3000K-POSITION 0

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197144
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-MID-3000K-POSITION 0
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 3000K
Ballast/Driver: -

Summary

Lumens per Lamp: 3250 (1 lamp)
Luminaire Lumens: 3500.4 lumens
Efficiency: 107.7%
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.4' x L: 0.56' x H: 0.69')
IES Classification: Type III - Short - Cutoff
BUG Rating: B2 - U1 - G1

Input Watts (W): 26.7
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

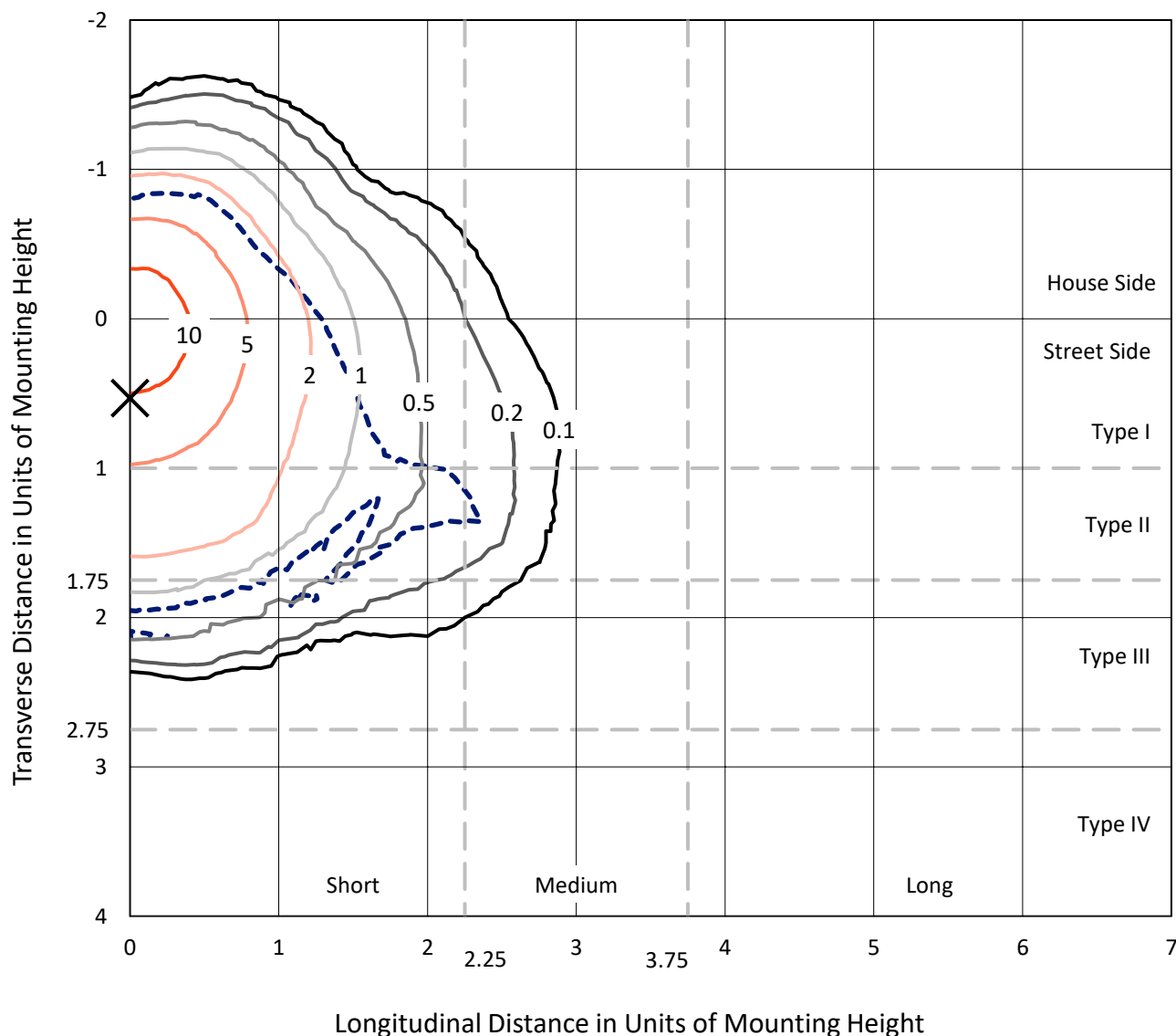
REPORT NUMBER: P1197144

CATALOG NUMBER: AWPS28S-BZ-MID-3000K-POSITION 0

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

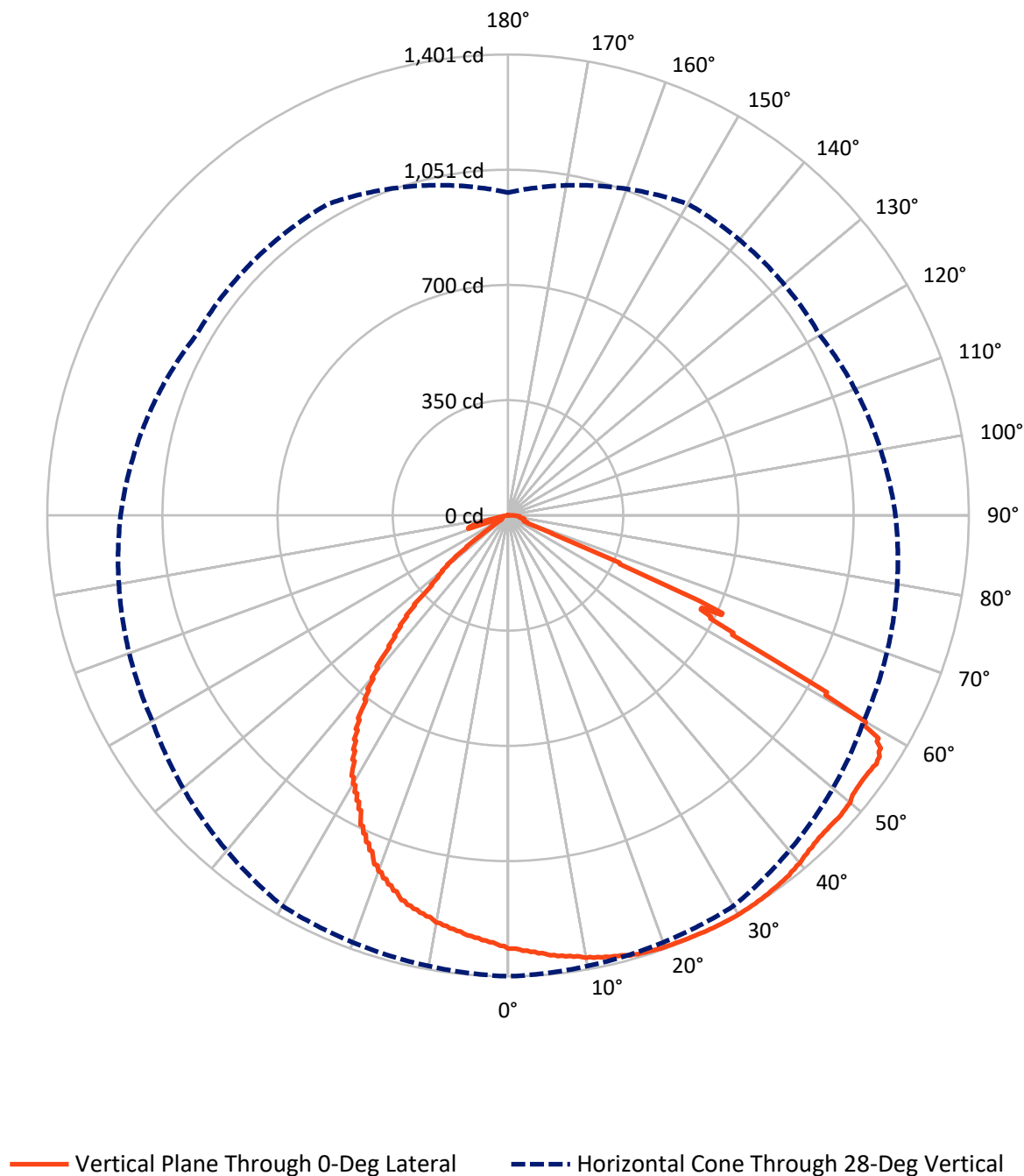


Based on 10 foot mounting height. Maximum calculated value = 13.2 fc
 Type III - Short - Cutoff

REPORT NUMBER: P1197144

CATALOG NUMBER: AWPS28S-BZ-MID-3000K-POSITION 0

Luminous Intensity Polar Plot



REPORT NUMBER: P1197144

CATALOG NUMBER: AWPS28S-BZ-MID-3000K-POSITION 0

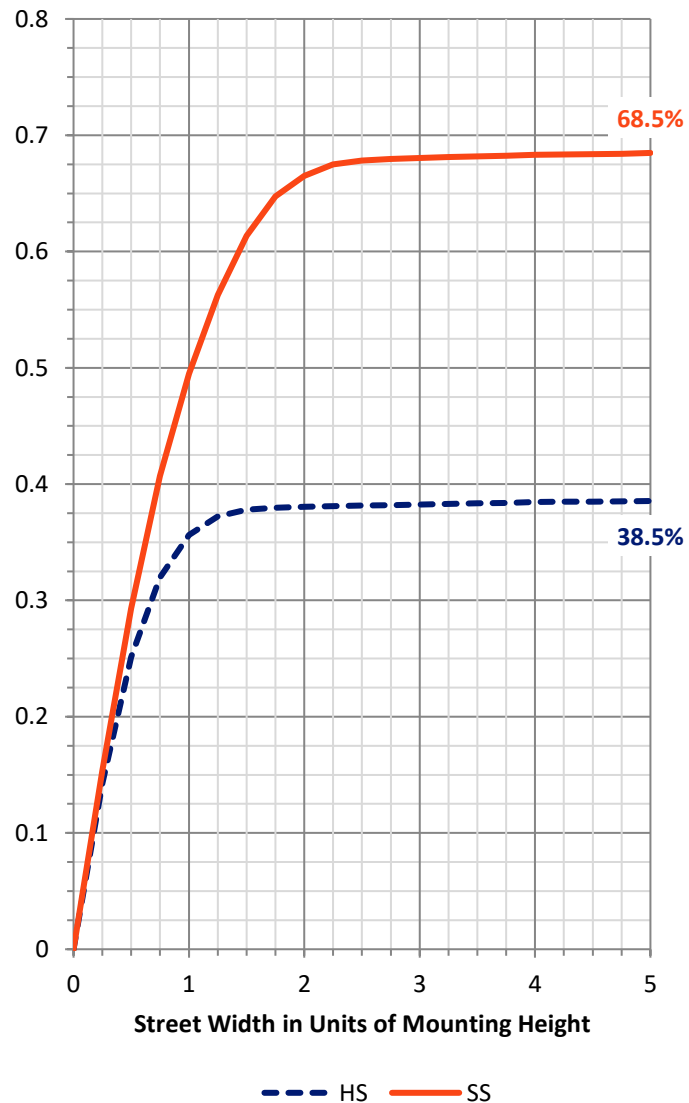
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1265.8	3.5	1269.3
	% Lamp	38.9	0.1	39.1
Street Side	Lumens	2227.9	3.2	2231.1
	% Lamp	68.6	0.1	68.6
Total	Lumens	3493.7	6.7	3500.4
	% Lamp	107.5	0.2	107.7

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	126.4	3.6	3.9
10°-20°	368.3	10.5	11.3
20°-30°	567.4	16.2	17.5
30°-40°	688.2	19.7	21.2
40°-50°	699.1	20.0	21.5
50°-60°	611.9	17.5	18.8
60°-70°	331.9	9.5	10.2
70°-80°	79.9	2.3	2.5
80°-90°	20.7	0.6	0.6
90°-100°	1.5	0.0	0.0
100°-110°	1.0	0.0	0.0
110°-120°	0.9	0.0	0.0
120°-130°	0.9	0.0	0.0
130°-140°	0.8	0.0	0.0
140°-150°	0.7	0.0	0.0
150°-160°	0.5	0.0	0.0
160°-170°	0.3	0.0	0.0
170°-180°	0.1	0.0	0.0
0°-90°	3493.7	99.8	107.5
0°-180°	3500.4	100.0	107.7

Coefficient of Utilization



REPORT NUMBER: P1197144

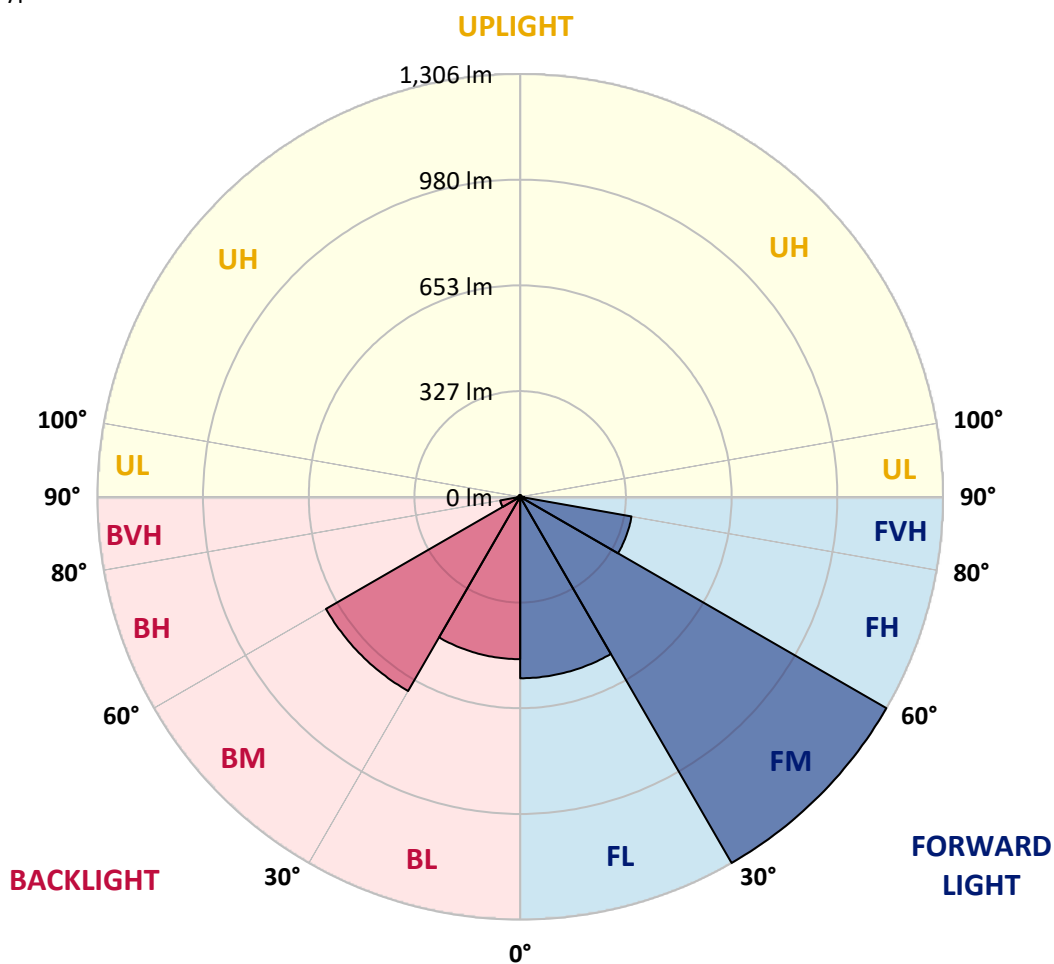
CATALOG NUMBER: AWPS28S-BZ-MID-3000K-POSITION 0

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	560.5	17.2			
FM	(30°-60°)	1306.3	40.2			
FH	(60°-80°)	349.3	10.7			G0/660
FVH	(80°-90°)	11.8	0.4			G1/100
BL	(0°-30°)	501.5	15.4	B2/1000		
BM	(30°-60°)	692.8	21.3	B1/1000		
BH	(60°-80°)	62.5	1.9	B0/110		G0/110
BVH	(80°-90°)	8.9	0.3			G0/10
UL	(90°-100°)	1.5	0.0		U1/10	
UH	(100°-180°)	5.2	0.2		U1/10	
Trapped Light		-250.4	-7.7			

BUG Rating: B2-U1-G1

Type III Short



REPORT NUMBER: P1197144

CATALOG NUMBER: AWPS28S-BZ-MID-3000K-POSITION 0

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	1316.7	1316.7	1316.7	1316.7	1316.7	1316.7	1316.7
0.5°	1316.7	1316.7	1316.7	1316.7	1316.7	1316.7	1316.7
1°	1319.0	1332.3	1342.4	1335.6	1324.2	1326.1	1308.4
1.5°	1323.9	1337.5	1342.4	1335.5	1320.0	1326.1	1308.3
2°	1323.9	1337.5	1344.6	1335.2	1320.0	1324.9	1303.0
2.5°	1328.5	1340.9	1344.6	1335.2	1318.2	1320.4	1298.1
3°	1328.5	1340.9	1346.7	1334.1	1318.2	1320.4	1298.1
3.5°	1333.7	1345.1	1346.7	1333.4	1314.7	1316.4	1293.2
4°	1333.7	1345.1	1348.2	1333.4	1314.7	1316.4	1293.2
4.5°	1338.3	1347.5	1348.2	1334.8	1309.7	1310.8	1287.4
5°	1343.0	1352.0	1348.2	1334.8	1309.7	1310.8	1287.4
5.5°	1343.0	1352.1	1350.1	1333.3	1305.8	1308.2	1282.5
6°	1347.7	1355.8	1350.1	1333.3	1303.5	1308.2	1282.4
6.5°	1347.7	1355.8	1350.6	1332.0	1303.4	1302.7	1278.0
7°	1351.8	1359.0	1350.6	1331.8	1295.0	1302.5	1272.6
7.5°	1351.8	1359.0	1348.6	1324.9	1294.9	1296.4	1272.6
8°	1356.4	1363.7	1348.6	1324.8	1290.7	1290.5	1267.4
8.5°	1356.4	1363.7	1348.6	1324.8	1290.7	1290.5	1267.4
9°	1360.7	1365.5	1348.5	1323.3	1287.0	1286.0	1261.4
9.5°	1364.9	1365.5	1349.3	1323.3	1287.0	1286.0	1261.4
10°	1365.0	1370.0	1346.8	1320.8	1281.3	1280.9	1256.0
10.5°	1369.4	1371.0	1346.8	1320.7	1276.0	1280.9	1256.0
11°	1369.4	1371.0	1347.6	1320.6	1275.9	1275.5	1249.7
11.5°	1373.4	1373.2	1347.6	1320.5	1269.1	1275.3	1243.1
12°	1373.4	1373.2	1345.3	1316.7	1269.0	1270.1	1243.1
12.5°	1377.4	1376.0	1345.3	1316.6	1265.1	1267.1	1236.6
13°	1377.4	1376.0	1345.4	1311.2	1265.1	1267.1	1236.6
13.5°	1380.7	1378.4	1345.3	1306.9	1257.2	1261.5	1229.5
14°	1380.7	1378.3	1341.3	1306.9	1257.2	1261.5	1229.5
14.5°	1384.2	1379.4	1341.3	1305.1	1251.9	1254.0	1222.0
15°	1388.1	1380.1	1338.2	1305.1	1251.9	1254.0	1222.0
15.5°	1388.1	1380.0	1335.5	1298.0	1240.5	1248.0	1213.2
16°	1390.8	1382.0	1335.5	1297.9	1234.3	1248.0	1213.2
16.5°	1390.8	1381.9	1331.6	1293.0	1234.2	1241.6	1203.1
17°	1392.0	1382.7	1331.6	1292.9	1226.4	1241.3	1191.9
17.5°	1392.0	1382.6	1327.5	1285.0	1226.3	1235.9	1191.9
18°	1393.8	1382.4	1327.5	1284.8	1217.2	1227.1	1179.2
18.5°	1393.8	1382.3	1322.9	1280.2	1217.2	1227.1	1179.2
19°	1395.6	1382.4	1322.7	1268.1	1208.3	1218.1	1165.7
19.5°	1395.6	1382.3	1317.6	1268.1	1208.3	1218.1	1165.7
20°	1395.7	1380.3	1311.2	1264.4	1199.0	1212.5	1150.9
20.5°	1395.9	1380.1	1311.2	1264.4	1199.0	1212.5	1150.9
21°	1395.9	1380.0	1303.7	1253.2	1190.0	1205.7	1135.1
21.5°	1396.9	1378.9	1303.7	1253.0	1179.5	1205.7	1134.9
22°	1396.9	1378.8	1298.4	1247.9	1179.3	1194.3	1118.2

REPORT NUMBER: P1197144

CATALOG NUMBER: AWPS28S-BZ-MID-3000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	1397.3	1377.9	1298.4	1247.7	1169.7	1194.0	1100.8
23°	1397.3	1377.7	1290.5	1237.9	1169.5	1183.4	1100.8
23.5°	1397.7	1376.6	1290.2	1226.1	1161.3	1172.3	1082.0
24°	1397.7	1376.5	1285.2	1226.1	1161.3	1172.3	1082.0
24.5°	1398.9	1376.8	1285.0	1218.7	1148.4	1157.1	1061.7
25°	1399.7	1376.6	1274.4	1218.7	1148.4	1157.1	1061.7
25.5°	1399.6	1373.7	1266.9	1203.8	1134.7	1143.5	1042.0
26°	1400.1	1373.7	1266.9	1203.5	1121.6	1143.5	1042.0
26.5°	1400.1	1373.6	1259.2	1193.8	1121.2	1125.4	1021.6
27°	1400.3	1372.7	1259.2	1193.6	1110.4	1125.0	1001.3
27.5°	1400.3	1372.5	1248.9	1178.0	1110.1	1111.3	1001.3
28°	1400.7	1370.7	1248.9	1177.7	1094.9	1093.2	981.0
28.5°	1400.7	1370.5	1240.2	1169.2	1094.9	1093.2	981.0
29°	1400.6	1369.9	1240.0	1156.1	1079.3	1073.7	961.1
29.5°	1400.6	1369.7	1229.4	1156.1	1079.3	1073.7	961.1
30°	1400.3	1368.2	1229.1	1142.5	1063.6	1055.7	942.1
30.5°	1399.6	1365.2	1221.6	1142.5	1063.6	1055.7	942.1
31°	1399.6	1365.0	1212.1	1129.6	1049.9	1034.0	923.3
31.5°	1398.7	1361.3	1212.1	1129.2	1032.5	1034.0	923.3
32°	1398.7	1361.2	1204.4	1118.9	1032.0	1012.5	903.3
32.5°	1397.3	1357.8	1204.4	1118.5	1015.1	1012.0	880.1
33°	1397.3	1357.6	1194.7	1103.2	1014.7	991.9	880.1
33.5°	1395.3	1353.7	1194.4	1089.1	993.3	969.6	853.0
34°	1395.3	1353.5	1185.8	1089.1	993.3	969.6	853.0
34.5°	1393.6	1349.9	1185.6	1078.6	973.8	949.0	825.8
35°	1392.6	1349.6	1173.8	1078.6	973.8	949.0	825.8
35.5°	1392.5	1343.8	1164.9	1060.8	952.6	924.8	797.1
36°	1390.5	1338.4	1164.9	1060.3	929.7	924.8	797.1
36.5°	1390.5	1338.1	1153.3	1045.2	929.3	904.1	767.5
37°	1388.1	1334.0	1153.3	1044.7	902.6	904.1	767.2
37.5°	1388.1	1333.8	1143.5	1029.6	902.2	884.5	738.0
38°	1383.7	1329.3	1143.5	1029.1	880.5	862.1	709.2
38.5°	1383.7	1329.1	1131.3	1014.0	880.5	862.1	709.2
39°	1380.0	1324.6	1130.9	993.9	851.9	838.7	679.0
39.5°	1380.0	1324.3	1119.5	993.9	851.9	838.7	679.0
40°	1376.7	1319.6	1119.2	978.6	824.6	813.1	643.9
40.5°	1372.3	1314.1	1107.7	978.6	824.6	813.1	643.9
41°	1372.3	1313.8	1095.9	961.6	793.7	786.5	609.0
41.5°	1367.9	1307.0	1095.9	961.0	763.9	786.5	609.0
42°	1367.9	1306.8	1083.5	942.9	763.3	756.9	573.6
42.5°	1363.7	1299.5	1083.5	942.3	733.5	756.2	538.0
43°	1363.7	1299.3	1071.4	924.4	732.9	725.6	538.0
43.5°	1361.2	1292.0	1071.4	923.8	704.7	693.8	502.9
44°	1361.2	1291.8	1058.9	902.5	704.7	693.8	502.9
44.5°	1360.8	1286.4	1058.5	882.6	673.2	665.6	469.6

REPORT NUMBER: P1197144

CATALOG NUMBER: AWPS28S-BZ-MID-3000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	1360.8	1286.1	1046.1	882.6	673.2	665.6	469.6
45.5°	1359.8	1280.5	1045.6	860.4	642.3	634.6	434.1
46°	1360.3	1277.4	1032.9	860.4	642.3	634.6	434.1
46.5°	1360.3	1277.1	1016.6	838.4	612.7	600.3	393.8
47°	1361.7	1275.3	1016.6	837.8	584.3	600.3	393.8
47.5°	1361.7	1275.3	1016.2	816.6	583.6	565.5	350.2
48°	1359.8	1272.8	998.4	816.0	555.0	564.8	314.0
48.5°	1359.8	1272.5	980.9	792.9	554.3	527.5	314.0
49°	1358.0	1273.3	980.9	792.3	526.7	490.7	283.9
49.5°	1358.0	1272.9	963.3	769.4	526.7	490.7	283.9
50°	1353.0	1273.0	962.8	745.0	495.3	455.0	261.3
50.5°	1348.1	1272.7	944.1	745.0	495.3	455.0	261.3
51°	1348.2	1274.7	924.3	720.9	463.4	421.1	237.6
51.5°	1345.8	1276.0	924.3	720.2	429.4	421.1	237.6
52°	1345.8	1275.6	905.1	697.7	428.7	388.0	204.6
52.5°	1345.2	1278.5	905.1	697.0	394.7	388.0	204.0
53°	1345.2	1278.1	886.0	674.7	394.0	355.3	158.6
53.5°	1345.6	1281.9	886.0	674.0	356.8	322.4	158.0
54°	1345.7	1289.2	866.6	651.6	356.8	321.7	122.0
54.5°	1347.6	1289.2	866.2	628.2	318.1	283.3	93.8
55°	1347.6	1288.8	845.6	628.2	318.1	283.3	93.8
55.5°	1351.3	1308.9	845.2	605.5	278.9	252.4	59.7
56°	1347.2	1341.1	828.7	605.5	278.9	252.4	59.7
56.5°	1347.2	1340.8	810.3	583.5	242.3	225.3	33.7
57°	1336.4	1369.1	810.3	582.9	212.5	225.3	33.7
57.5°	1336.4	1368.9	796.0	560.7	212.0	200.6	27.7
58°	1314.6	1390.5	796.0	560.2	189.7	200.6	25.8
58.5°	1314.6	1390.2	779.3	538.9	188.9	164.6	25.8
59°	1256.1	1343.0	779.3	538.5	170.4	119.5	24.2
59.5°	1256.1	1342.8	764.4	517.2	170.4	119.5	24.2
60°	1108.7	1200.3	764.0	497.8	143.2	85.5	23.0
60.5°	1108.7	1200.0	751.2	497.8	143.2	85.5	23.0
61°	914.7	1011.4	737.8	474.2	101.6	62.3	21.2
61.5°	772.1	839.8	737.8	474.2	101.6	62.3	21.2
62°	772.1	839.5	726.7	450.4	65.1	41.9	19.6
62.5°	690.0	714.1	726.7	450.1	51.1	41.9	19.5
63°	690.0	714.0	720.7	421.8	50.9	31.7	19.0
63.5°	652.1	594.7	720.7	421.7	45.6	28.0	19.3
64°	652.1	594.8	724.0	390.3	45.6	28.0	19.3
64.5°	716.1	644.3	724.0	390.2	42.3	26.3	19.2
65°	716.1	644.7	742.4	351.3	42.3	26.3	19.2
65.5°	635.4	718.5	741.4	304.5	39.6	25.3	18.8
66°	370.4	718.9	759.7	304.5	39.6	25.3	18.8
66.5°	368.1	602.5	777.9	260.9	37.5	24.5	18.4
67°	144.5	389.8	777.9	260.9	35.5	24.5	18.4

REPORT NUMBER: P1197144

CATALOG NUMBER: AWPS28S-BZ-MID-3000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	144.5	389.7	772.2	224.7	35.5	23.8	17.7
68°	64.4	177.4	772.2	224.6	33.3	23.8	17.7
68.5°	64.4	176.9	746.9	194.3	33.3	22.7	17.5
69°	51.6	68.8	746.9	194.3	31.1	21.7	19.0
69.5°	51.6	67.8	698.0	163.7	31.1	21.7	19.0
70°	51.4	49.4	697.3	132.9	28.8	21.4	41.6
70.5°	51.4	47.9	620.9	132.9	28.8	21.4	41.6
71°	57.5	47.2	620.4	107.5	26.2	20.9	41.6
71.5°	52.7	50.2	517.0	107.5	26.2	21.8	85.6
72°	52.7	47.9	408.1	94.5	24.0	22.1	127.1
72.5°	50.7	46.8	408.1	94.5	21.7	22.1	127.1
73°	50.7	44.8	312.5	73.6	21.7	20.9	126.1
73.5°	50.0	44.2	312.5	73.6	19.7	20.8	120.0
74°	50.0	42.6	234.4	59.0	19.7	18.5	120.0
74.5°	46.4	38.3	234.4	58.9	17.9	16.3	109.2
75°	46.4	37.1	174.2	51.0	17.9	16.3	109.2
75.5°	49.1	37.4	174.0	44.9	16.2	14.7	87.8
76°	49.1	36.4	125.4	44.9	16.2	14.7	87.8
76.5°	50.9	38.2	89.0	40.2	15.0	13.8	65.2
77°	50.2	41.7	89.0	40.2	15.0	13.8	65.2
77.5°	50.2	41.4	73.0	37.0	13.9	13.5	42.2
78°	44.7	44.7	73.0	37.0	12.8	13.5	42.2
78.5°	44.7	44.6	67.3	32.2	12.8	12.6	29.4
79°	38.9	45.3	67.3	32.2	11.8	12.4	21.9
79.5°	38.9	45.2	62.5	25.1	11.8	12.5	21.9
80°	35.4	42.1	62.5	25.1	10.6	26.9	15.8
80.5°	35.4	42.0	60.9	19.6	10.6	26.9	15.8
81°	34.6	36.9	60.8	16.1	10.1	41.3	11.2
81.5°	35.8	36.9	60.7	16.1	10.1	41.3	11.2
82°	35.7	31.9	60.7	13.0	9.8	43.7	8.8
82.5°	35.7	26.9	54.2	13.0	9.1	46.4	8.8
83°	35.7	26.7	44.6	11.0	9.1	46.4	7.0
83.5°	35.0	21.8	44.6	10.9	6.5	46.4	7.0
84°	35.0	21.6	34.2	9.3	6.4	44.1	5.6
84.5°	34.6	16.7	34.2	9.3	6.4	42.8	4.1
85°	34.6	16.5	22.8	8.0	6.4	42.8	4.1
85.5°	32.2	12.4	22.7	6.5	4.3	40.1	3.3
86°	32.2	12.2	11.5	6.5	3.4	40.1	3.3
86.5°	27.7	9.3	11.5	5.4	3.3	36.9	2.2
87°	22.8	6.8	3.6	5.3	2.4	36.9	2.2
87.5°	22.8	6.7	0.4	4.4	2.3	31.9	1.2
88°	19.2	3.9	0.4	4.4	1.6	31.9	1.2
88.5°	19.2	3.9	0.3	3.5	1.0	26.2	0.7
89°	15.5	2.7	0.3	3.5	1.0	26.2	0.5
89.5°	15.5	2.7	0.3	2.9	0.7	18.5	0.5

REPORT NUMBER: P1197144

CATALOG NUMBER: AWPS28S-BZ-MID-3000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	12.4	2.0	0.3	2.9	0.5	8.2	0.5
90.5°	12.4	2.0	0.3	2.4	0.5	8.2	0.5
91°	8.6	1.8	0.3	1.9	0.4	2.8	0.5
91.5°	8.6	1.8	0.3	1.9	0.4	2.8	0.5
92°	3.4	1.7	0.3	1.6	0.4	2.0	0.7
92.5°	2.0	1.6	0.3	1.6	0.4	2.0	0.7
93°	2.0	1.6	0.3	1.6	0.4	1.9	0.8
93.5°	1.9	1.6	0.3	1.6	0.4	1.9	0.8
94°	1.9	1.6	0.3	1.5	0.4	1.9	0.6
94.5°	1.9	1.5	0.3	1.5	0.4	1.9	0.5
95°	1.9	1.5	0.3	1.5	0.4	1.7	0.5
95.5°	1.8	1.5	0.3	1.5	0.4	1.6	0.5
96°	1.8	1.5	0.3	1.4	0.4	1.6	0.5
96.5°	1.6	1.5	0.3	1.4	0.4	1.5	0.5
97°	1.6	1.5	0.3	1.4	0.4	1.5	0.5
97.5°	1.6	1.4	0.3	1.4	0.4	1.5	0.5
98°	1.5	1.4	0.3	1.4	0.4	1.5	0.5
98.5°	1.5	1.4	0.3	1.4	0.4	1.5	0.5
99°	1.5	1.3	0.3	1.3	0.4	1.5	0.5
99.5°	1.5	1.3	0.3	1.3	0.4	1.4	0.5
100°	1.5	1.3	0.3	1.3	0.4	1.4	0.5
100.5°	1.5	1.3	0.3	1.3	0.4	1.4	0.5
101°	1.4	1.3	0.3	1.3	0.4	1.4	0.5
101.5°	1.4	1.3	0.3	1.3	0.5	1.4	0.5
102°	1.4	1.2	0.3	1.3	0.5	1.4	0.5
102.5°	1.3	1.2	0.3	1.3	0.5	1.4	0.5
103°	1.3	1.2	0.3	1.2	0.5	1.4	0.5
103.5°	1.3	1.2	0.3	1.2	0.5	1.4	0.5
104°	1.3	1.2	0.3	1.3	0.5	1.4	0.5
104.5°	1.3	1.2	0.3	1.3	0.5	1.4	0.5
105°	1.3	1.2	0.3	1.2	0.5	1.4	0.5
105.5°	1.3	1.2	0.3	1.2	0.5	1.3	0.5
106°	1.3	1.0	0.3	1.2	0.5	1.3	0.5
106.5°	1.2	1.0	0.3	1.2	0.5	1.3	0.5
107°	1.2	1.0	0.3	1.2	0.5	1.3	0.5
107.5°	1.2	1.0	0.3	1.2	0.5	1.3	0.6
108°	1.2	1.0	0.3	1.2	0.5	1.3	0.6
108.5°	1.2	1.0	0.3	1.2	0.6	1.3	0.6
109°	1.2	1.0	0.3	1.2	0.6	1.3	0.6
109.5°	1.2	1.0	0.3	1.2	0.6	1.3	0.6
110°	1.1	1.0	0.3	1.2	0.6	1.3	0.6
110.5°	1.1	1.0	0.3	1.2	0.6	1.3	0.6
111°	1.1	1.0	0.3	1.2	0.6	1.3	0.6
111.5°	1.1	1.0	0.4	1.2	0.6	1.3	0.6
112°	1.1	0.9	0.4	1.2	0.6	1.3	0.7

REPORT NUMBER: P1197144

CATALOG NUMBER: AWPS28S-BZ-MID-3000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	1.1	0.9	0.4	1.2	0.6	1.3	0.7
113°	1.1	0.9	0.4	1.2	0.6	1.3	0.7
113.5°	1.1	0.9	0.4	1.2	0.6	1.3	0.7
114°	1.1	0.9	0.4	1.1	0.7	1.4	0.7
114.5°	1.1	0.9	0.4	1.1	0.7	1.4	0.7
115°	1.1	0.9	0.4	1.2	0.6	1.3	0.7
115.5°	0.9	0.9	0.4	1.2	0.6	1.4	0.8
116°	0.9	0.9	0.4	1.1	0.7	1.4	0.8
116.5°	0.9	0.9	0.4	1.1	0.7	1.3	0.8
117°	0.9	0.9	0.4	1.1	0.7	1.3	0.8
117.5°	0.9	0.9	0.4	1.1	0.7	1.4	0.8
118°	0.9	0.9	0.4	1.1	0.7	1.4	0.8
118.5°	0.9	0.9	0.5	1.1	0.7	1.3	0.8
119°	0.9	0.9	0.5	1.1	0.7	1.3	0.8
119.5°	0.9	0.9	0.5	1.1	0.7	1.4	0.8
120°	0.9	0.9	0.5	1.1	0.7	1.4	0.8
120.5°	0.9	0.9	0.5	1.1	0.7	1.4	0.8
121°	0.9	0.9	0.5	1.1	0.7	1.4	0.9
121.5°	0.9	0.9	0.5	1.2	0.7	1.4	0.9
122°	0.9	0.9	0.5	1.2	0.7	1.4	0.9
122.5°	0.9	0.9	0.5	1.2	0.8	1.4	0.9
123°	0.9	0.9	0.5	1.1	0.8	1.4	0.9
123.5°	0.9	0.9	0.5	1.1	0.8	1.4	0.9
124°	0.9	0.9	0.5	1.1	0.8	1.4	0.9
124.5°	0.9	0.9	0.5	1.1	0.8	1.4	0.9
125°	0.9	0.9	0.5	1.1	0.8	1.4	0.9
125.5°	0.9	0.9	0.5	1.1	0.8	1.4	0.9
126°	0.9	0.9	0.6	1.2	0.8	1.4	0.9
126.5°	0.9	0.9	0.6	1.1	0.8	1.4	1.1
127°	0.9	0.9	0.6	1.1	0.8	1.4	1.1
127.5°	0.9	0.9	0.6	1.1	0.8	1.4	1.1
128°	0.9	0.9	0.6	1.1	0.8	1.4	1.1
128.5°	0.9	0.9	0.6	1.2	0.8	1.4	1.1
129°	0.9	0.9	0.6	1.2	1.0	1.4	1.1
129.5°	0.9	0.9	0.6	1.2	0.8	1.4	1.1
130°	0.9	0.9	0.6	1.2	0.8	1.4	1.1
130.5°	0.9	0.9	0.6	1.2	1.0	1.4	1.1
131°	0.9	0.9	0.6	1.2	1.0	1.4	1.1
131.5°	0.9	0.9	0.7	1.2	0.8	1.4	1.1
132°	0.9	1.1	0.7	1.2	0.8	1.4	1.1
132.5°	0.9	1.1	0.7	1.2	1.0	1.4	1.1
133°	0.9	1.1	0.7	1.2	1.0	1.4	1.1
133.5°	0.9	1.1	0.7	1.2	1.0	1.4	1.2
134°	0.9	1.1	0.7	1.2	1.0	1.4	1.2
134.5°	0.9	1.1	0.7	1.2	1.0	1.4	1.2

REPORT NUMBER: P1197144

CATALOG NUMBER: AWPS28S-BZ-MID-3000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	0.9	1.1	0.7	1.2	1.0	1.4	1.2
135.5°	0.9	1.1	0.7	1.2	1.0	1.4	1.2
136°	0.9	1.1	0.7	1.2	1.0	1.4	1.2
136.5°	0.9	1.1	0.7	1.2	1.0	1.4	1.2
137°	0.9	1.1	0.7	1.2	1.0	1.4	1.2
137.5°	0.9	1.1	0.7	1.2	1.0	1.4	1.2
138°	0.9	1.1	0.7	1.2	1.0	1.4	1.2
138.5°	0.9	1.1	0.8	1.2	1.0	1.4	1.2
139°	0.9	1.1	0.8	1.2	1.0	1.4	1.2
139.5°	0.9	1.1	0.7	1.2	1.0	1.4	1.2
140°	0.9	1.1	0.7	1.2	1.0	1.4	1.2
140.5°	0.9	1.1	0.8	1.2	1.0	1.4	1.2
141°	0.9	1.1	0.8	1.2	1.0	1.4	1.2
141.5°	0.9	1.1	0.8	1.2	1.0	1.4	1.2
142°	1.1	1.1	0.8	1.2	1.0	1.4	1.2
142.5°	1.1	1.1	0.8	1.2	1.0	1.4	1.2
143°	0.9	1.2	0.8	1.2	1.0	1.4	1.2
143.5°	1.1	1.1	0.8	1.2	1.1	1.4	1.2
144°	1.1	1.1	0.8	1.3	1.1	1.4	1.2
144.5°	1.1	1.2	0.8	1.3	1.0	1.4	1.2
145°	1.1	1.2	0.8	1.2	1.1	1.4	1.2
145.5°	1.1	1.2	0.8	1.2	1.1	1.4	1.2
146°	1.1	1.2	0.9	1.2	1.0	1.4	1.2
146.5°	1.1	1.2	0.9	1.2	1.0	1.4	1.2
147°	1.1	1.2	0.8	1.3	1.1	1.4	1.2
147.5°	1.1	1.2	0.8	1.3	1.1	1.4	1.2
148°	1.1	1.2	0.9	1.3	1.1	1.4	1.2
148.5°	1.1	1.2	0.8	1.2	1.1	1.4	1.2
149°	1.1	1.2	0.8	1.2	1.1	1.4	1.2
149.5°	1.1	1.2	0.9	1.3	1.1	1.4	1.2
150°	1.1	1.2	0.9	1.3	1.1	1.4	1.2
150.5°	1.1	1.2	0.9	1.3	1.1	1.4	1.2
151°	1.1	1.2	0.9	1.3	1.1	1.4	1.2
151.5°	1.1	1.2	0.9	1.3	1.1	1.4	1.2
152°	1.1	1.2	0.9	1.3	1.1	1.4	1.2
152.5°	1.1	1.2	0.9	1.3	1.1	1.4	1.2
153°	1.1	1.2	0.9	1.3	1.1	1.4	1.2
153.5°	1.1	1.2	0.9	1.3	1.1	1.4	1.2
154°	1.1	1.2	0.9	1.3	1.1	1.4	1.2
154.5°	1.1	1.2	0.9	1.3	1.1	1.4	1.2
155°	1.1	1.2	0.9	1.3	1.1	1.4	1.2
155.5°	1.1	1.2	0.9	1.3	1.1	1.4	1.2
156°	1.1	1.2	0.9	1.3	1.1	1.4	1.2
156.5°	1.2	1.2	0.9	1.3	1.1	1.4	1.2
157°	1.2	1.2	0.9	1.3	1.1	1.4	1.2

REPORT NUMBER: P1197144

CATALOG NUMBER: AWPS28S-BZ-MID-3000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	1.2	1.2	0.9	1.3	1.1	1.4	1.2
158°	1.2	1.2	0.9	1.3	1.1	1.4	1.2
158.5°	1.2	1.2	0.9	1.2	1.1	1.3	1.2
159°	1.2	1.2	0.9	1.2	1.1	1.3	1.2
159.5°	1.2	1.2	1.1	1.3	1.1	1.4	1.2
160°	1.2	1.2	1.1	1.3	1.1	1.4	1.2
160.5°	1.2	1.2	1.1	1.3	1.1	1.3	1.2
161°	1.2	1.2	1.1	1.3	1.1	1.3	1.2
161.5°	1.2	1.2	1.1	1.3	1.1	1.3	1.2
162°	1.2	1.2	1.1	1.3	1.1	1.3	1.2
162.5°	1.2	1.2	1.1	1.3	1.1	1.3	1.2
163°	1.2	1.2	1.1	1.3	1.1	1.3	1.2
163.5°	1.2	1.2	1.1	1.3	1.1	1.3	1.2
164°	1.2	1.2	1.1	1.3	1.1	1.3	1.2
164.5°	1.2	1.2	1.1	1.3	1.1	1.3	1.2
165°	1.2	1.2	1.1	1.3	1.1	1.3	1.2
165.5°	1.2	1.2	1.1	1.3	1.1	1.3	1.2
166°	1.2	1.2	1.1	1.3	1.1	1.3	1.2
166.5°	1.2	1.2	1.1	1.3	1.1	1.3	1.2
167°	1.2	1.2	1.1	1.3	1.1	1.3	1.2
167.5°	1.2	1.2	1.1	1.3	1.1	1.3	1.2
168°	1.2	1.2	1.1	1.3	1.1	1.3	1.2
168.5°	1.2	1.2	1.1	1.3	1.1	1.3	1.2
169°	1.3	1.2	1.1	1.3	1.2	1.3	1.2
169.5°	1.3	1.2	1.1	1.3	1.2	1.3	1.2
170°	1.2	1.2	1.1	1.3	1.1	1.3	1.2
170.5°	1.2	1.2	1.1	1.3	1.2	1.3	1.2
171°	1.3	1.2	1.1	1.3	1.2	1.3	1.2
171.5°	1.3	1.3	1.1	1.3	1.1	1.3	1.2
172°	1.3	1.3	1.1	1.3	1.1	1.3	1.2
172.5°	1.3	1.2	1.1	1.3	1.1	1.3	1.2
173°	1.3	1.2	1.1	1.3	1.1	1.3	1.2
173.5°	1.3	1.3	1.2	1.3	1.1	1.3	1.2
174°	1.3	1.3	1.2	1.3	1.1	1.3	1.2
174.5°	1.3	1.2	1.1	1.3	1.2	1.3	1.2
175°	1.3	1.2	1.1	1.3	1.1	1.3	1.2
175.5°	1.3	1.2	1.1	1.3	1.1	1.3	1.2
176°	1.3	1.2	1.1	1.3	1.2	1.3	1.2
176.5°	1.3	1.2	1.1	1.3	1.2	1.3	1.2
177°	1.3	1.3	1.2	1.3	1.1	1.3	1.2
177.5°	1.3	1.3	1.2	1.3	1.1	1.3	1.2
178°	1.3	1.3	1.1	1.3	1.2	1.3	1.2
178.5°	1.3	1.3	1.1	1.3	1.2	1.2	1.2
179°	1.3	1.2	1.2	1.3	1.1	1.2	1.2
179.5°	1.3	1.2	1.2	1.3	1.1	1.3	1.2



REPORT NUMBER: P1197144
CATALOG NUMBER: AWPS28S-BZ-MID-3000K-POSITION 0

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)