

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: P1197001

Luminaire Tested: AWP28S-BZ-HIGH-4000K-POSITION 0

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197001
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-HIGH-4000K-POSITION 0
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 4000K
Ballast/Driver: -

Summary

Lumens per Lamp: 3920 (1 lamp)
Luminaire Lumens: 4046.9 lumens
Efficiency: 103.2%
Efficacy: 144.5 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

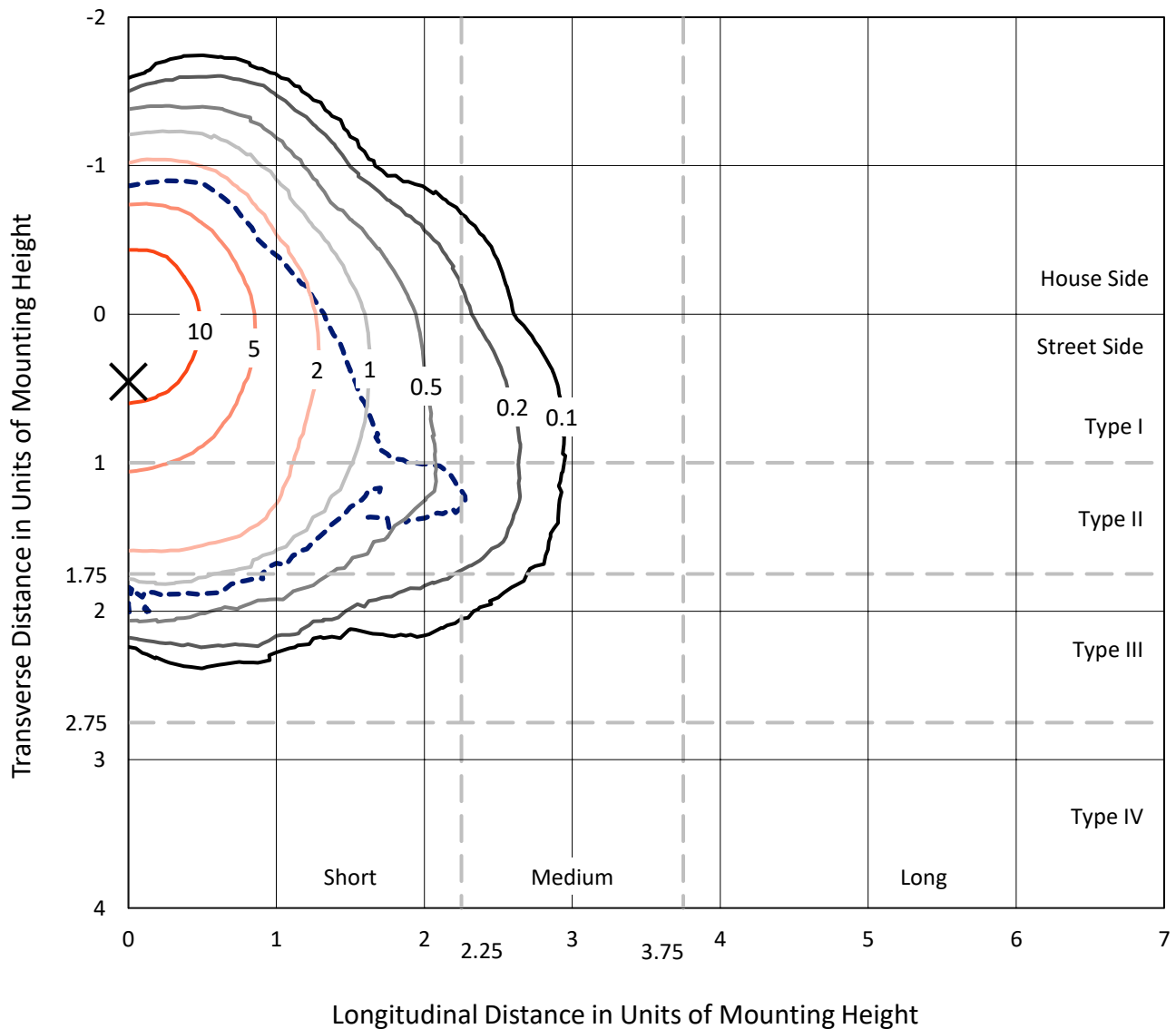
Input Watts (W): 28
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

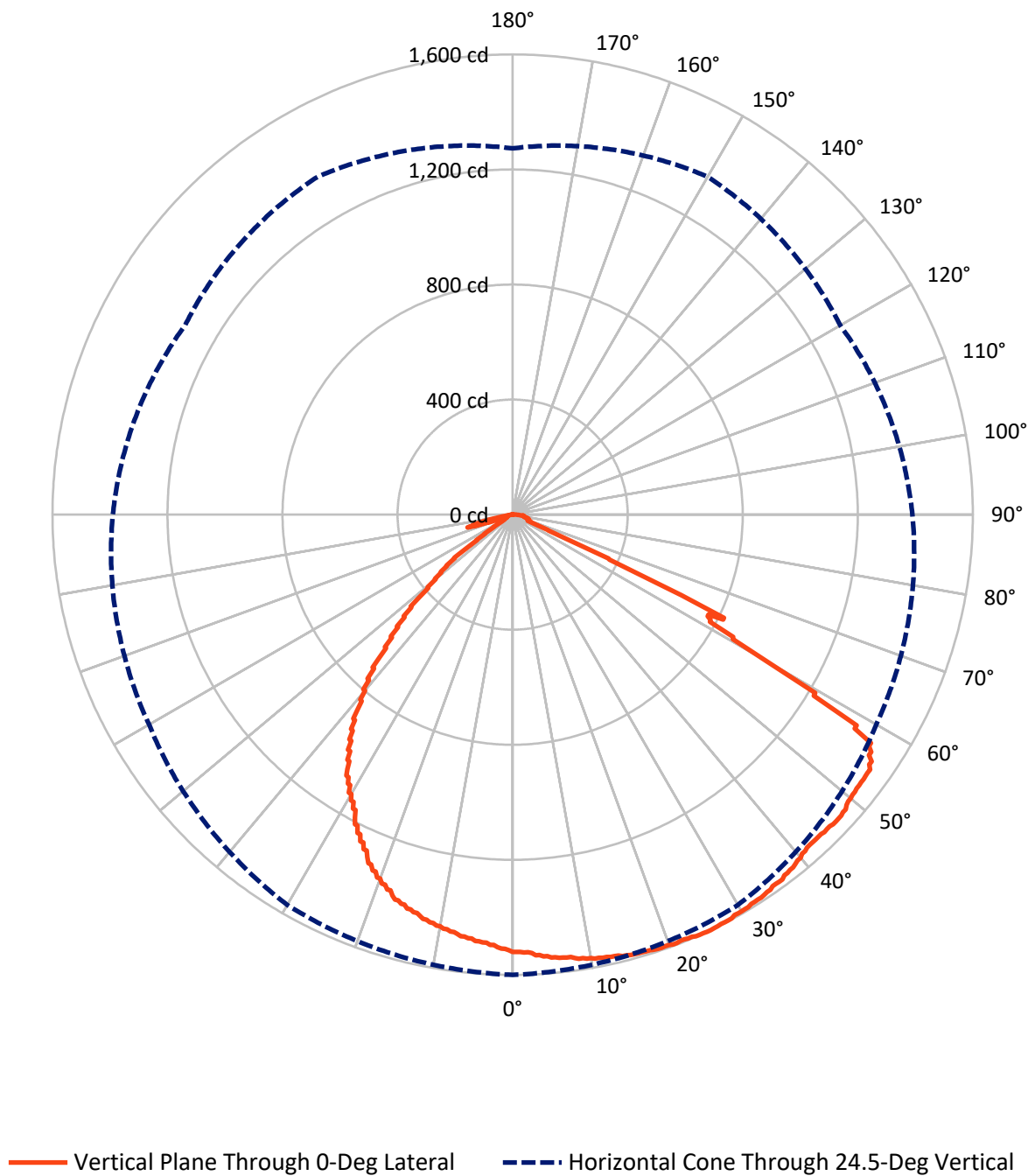


Based on 10 foot mounting height. Maximum calculated value = 15.2 fc
Type III - Short - Cutoff

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Luminous Intensity Polar Plot



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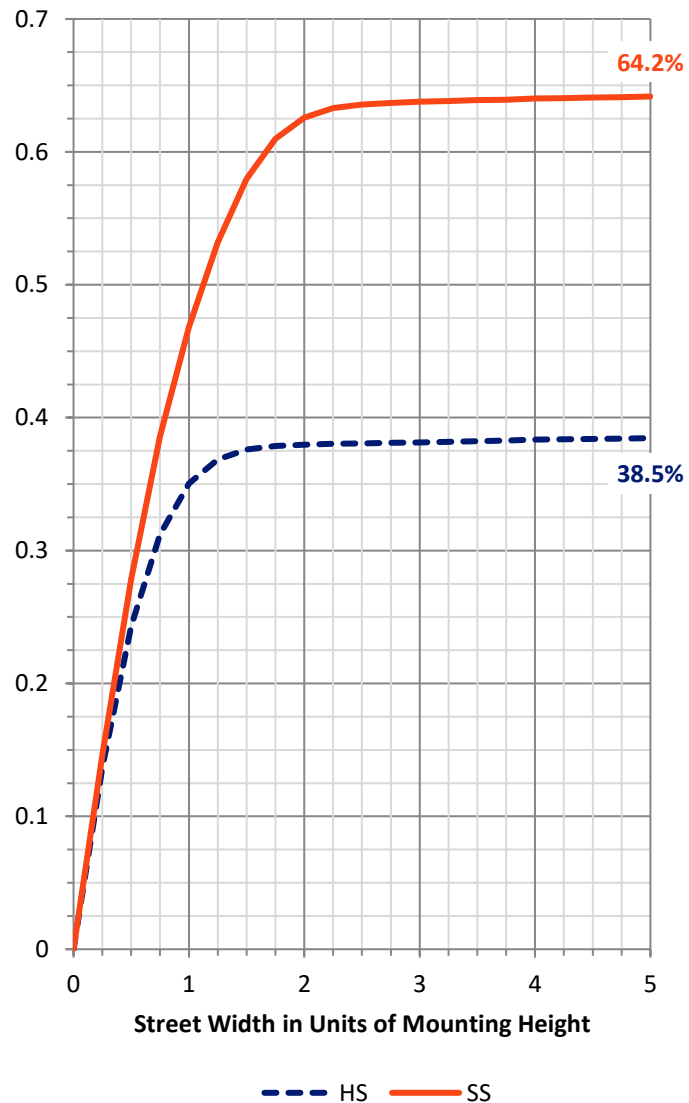
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1523.1	4.2	1527.3
	% Lamp	38.9	0.1	39.0
Street Side	Lumens	2516.4	3.2	2519.6
	% Lamp	64.2	0.1	64.3
Total	Lumens	4039.6	7.3	4046.9
	% Lamp	103.1	0.2	103.2

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	145.3	3.6	3.7
10°-20°	421.7	10.4	10.8
20°-30°	651.5	16.1	16.6
30°-40°	795.9	19.7	20.3
40°-50°	818.3	20.2	20.9
50°-60°	718.2	17.7	18.3
60°-70°	371.7	9.2	9.5
70°-80°	93.8	2.3	2.4
80°-90°	23.1	0.6	0.6
90°-100°	1.9	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°	0.9	0.0	0.0
140°-150°	0.8	0.0	0.0
150°-160°	0.6	0.0	0.0
160°-170°	0.4	0.0	0.0
170°-180°	0.1	0.0	0.0
0°-90°	4039.6	99.8	103.1
0°-180°	4046.9	100.0	103.2

Coefficient of Utilization



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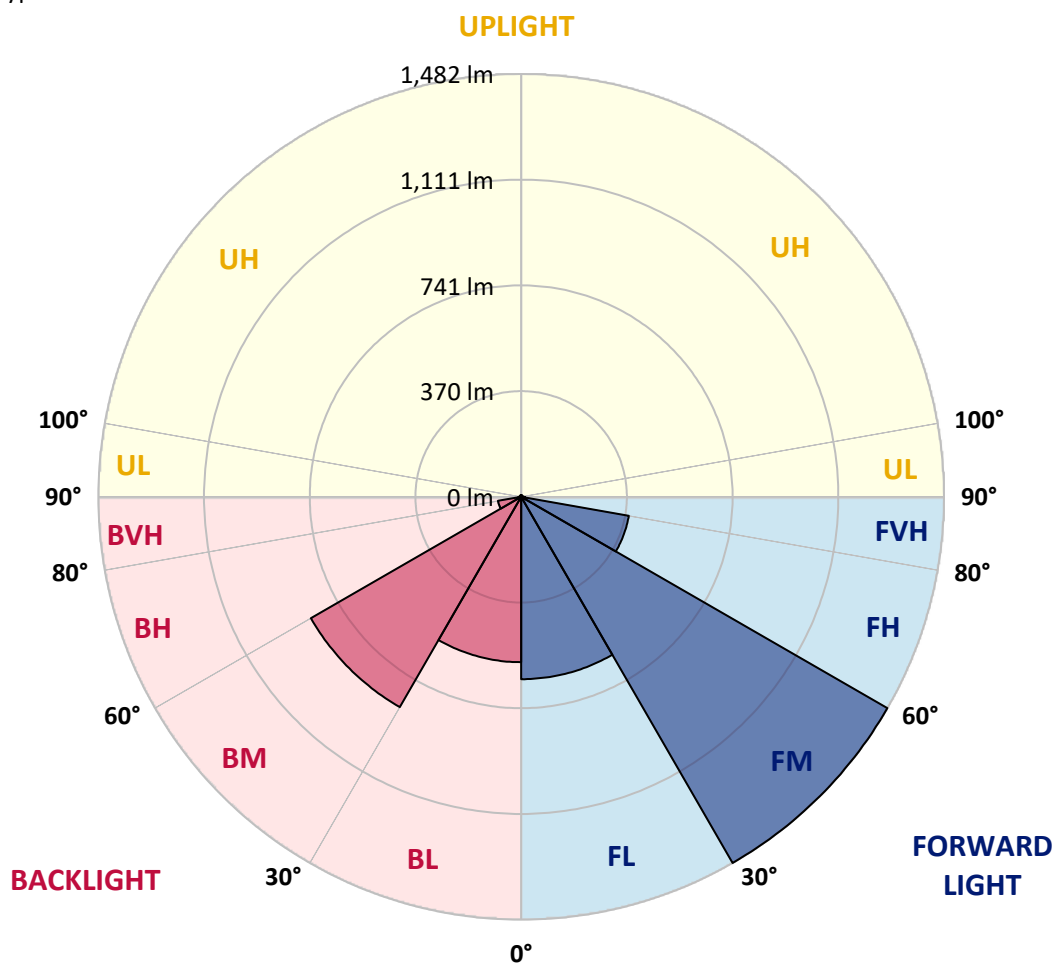
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	639.0	16.3			
FM	(30°-60°)	1481.6	37.8			
FH	(60°-80°)	382.9	9.8			G0/660
FVH	(80°-90°)	12.9	0.3			G1/100
BL	(0°-30°)	579.5	14.8	B2/1000		
BM	(30°-60°)	850.9	21.7	B1/1000		
BH	(60°-80°)	82.5	2.1	B0/110		G0/110
BVH	(80°-90°)	10.3	0.3			G1/100
UL	(90°-100°)	1.9	0.0		U1/10	
UH	(100°-180°)	5.5	0.1		U1/10	
Trapped Light		-126.9	-3.2			

BUG Rating: B2-U1-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1
0.5°	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1
1°	1522.3	1529.4	1541.1	1537.6	1527.5	1529.3	1513.8
1.5°	1522.3	1534.5	1541.2	1537.6	1522.2	1529.2	1509.0
2°	1525.4	1534.6	1542.0	1536.7	1522.2	1528.7	1509.0
2.5°	1533.3	1538.3	1542.0	1534.9	1519.6	1528.6	1504.0
3°	1533.3	1538.3	1543.4	1534.9	1519.6	1520.3	1497.4
3.5°	1539.5	1542.9	1543.4	1532.8	1513.8	1520.2	1497.4
4°	1539.5	1547.7	1543.7	1532.8	1513.8	1516.7	1490.8
4.5°	1545.2	1547.8	1543.7	1532.5	1506.8	1516.6	1490.8
5°	1545.3	1550.1	1543.9	1532.5	1506.8	1512.0	1487.7
5.5°	1549.0	1550.1	1543.8	1530.5	1499.2	1511.9	1487.7
6°	1549.0	1553.7	1543.9	1530.5	1499.2	1506.5	1480.0
6.5°	1551.2	1553.7	1543.5	1528.7	1497.9	1502.2	1479.9
7°	1551.2	1556.8	1543.6	1528.7	1491.1	1502.1	1476.2
7.5°	1556.1	1556.9	1543.1	1526.0	1491.1	1494.5	1476.0
8°	1560.9	1559.5	1543.1	1522.7	1488.1	1494.5	1470.6
8.5°	1561.0	1559.5	1540.7	1522.6	1488.1	1489.7	1465.1
9°	1565.1	1562.6	1540.7	1517.1	1479.5	1489.6	1465.1
9.5°	1565.2	1564.2	1539.3	1517.1	1479.5	1483.3	1459.5
10°	1569.2	1564.3	1537.2	1514.0	1471.9	1483.2	1459.5
10.5°	1569.2	1567.0	1537.2	1514.0	1471.9	1475.8	1452.4
11°	1571.9	1567.0	1534.2	1510.7	1464.7	1474.4	1452.3
11.5°	1571.9	1568.4	1534.2	1510.7	1454.9	1474.3	1445.9
12°	1574.5	1568.4	1531.0	1505.0	1454.8	1465.1	1445.7
12.5°	1574.5	1569.8	1531.1	1500.0	1450.4	1465.0	1439.6
13°	1576.5	1569.8	1526.9	1499.9	1450.4	1458.8	1439.5
13.5°	1581.6	1572.0	1526.9	1493.5	1437.1	1458.6	1430.9
14°	1581.6	1572.0	1523.5	1493.5	1437.1	1454.3	1423.9
14.5°	1585.1	1573.1	1523.5	1487.7	1429.8	1454.2	1423.9
15°	1585.2	1573.9	1520.7	1487.7	1429.8	1445.5	1417.3
15.5°	1585.9	1573.9	1516.1	1480.8	1421.3	1445.3	1417.3
16°	1585.9	1574.1	1516.1	1480.8	1421.3	1439.2	1407.0
16.5°	1587.8	1574.1	1510.5	1472.9	1410.3	1429.9	1406.9
17°	1587.8	1575.1	1510.5	1472.9	1402.1	1429.7	1398.9
17.5°	1590.0	1575.2	1506.7	1464.2	1401.9	1423.6	1398.8
18°	1591.8	1575.3	1506.7	1457.4	1392.4	1423.5	1388.1
18.5°	1591.9	1575.3	1500.6	1457.3	1392.4	1414.7	1373.5
19°	1591.1	1574.9	1500.6	1449.9	1378.8	1414.4	1373.5
19.5°	1591.1	1574.9	1494.6	1449.8	1378.8	1408.6	1360.7
20°	1594.5	1574.1	1488.7	1442.2	1370.9	1408.4	1360.7
20.5°	1594.5	1572.9	1488.7	1442.2	1370.9	1396.9	1346.4
21°	1592.0	1572.9	1482.3	1430.2	1359.7	1388.1	1346.3
21.5°	1592.0	1571.4	1482.3	1430.2	1359.7	1388.1	1329.3
22°	1594.2	1571.4	1474.0	1421.0	1347.7	1379.2	1329.1

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	1594.2	1569.5	1474.0	1421.0	1337.3	1379.0	1311.3
23°	1597.8	1569.6	1466.8	1412.2	1337.1	1369.4	1311.1
23.5°	1598.9	1568.6	1466.7	1401.6	1324.5	1369.2	1293.2
24°	1598.9	1568.6	1459.4	1401.5	1324.5	1356.1	1273.0
24.5°	1599.7	1566.4	1459.4	1389.6	1315.2	1355.9	1273.0
25°	1599.7	1565.3	1450.1	1389.4	1315.2	1343.7	1252.4
25.5°	1598.6	1565.3	1441.3	1378.1	1299.2	1343.4	1252.4
26°	1598.6	1562.7	1441.2	1378.1	1299.2	1328.9	1231.1
26.5°	1596.9	1562.7	1432.3	1365.2	1285.9	1309.7	1230.8
27°	1596.9	1559.9	1432.2	1365.2	1271.8	1309.5	1208.3
27.5°	1597.0	1559.9	1423.2	1352.6	1271.6	1290.7	1208.0
28°	1597.0	1557.3	1423.2	1338.3	1258.5	1290.4	1187.0
28.5°	1591.5	1557.2	1413.0	1338.1	1258.5	1274.2	1162.7
29°	1591.8	1554.5	1413.0	1338.1	1245.2	1274.0	1162.7
29.5°	1591.7	1554.5	1403.8	1320.1	1244.9	1249.0	1141.3
30°	1591.5	1551.6	1403.7	1320.1	1230.3	1248.8	1141.3
30.5°	1591.4	1547.1	1393.7	1306.0	1230.1	1229.5	1121.2
31°	1587.4	1547.0	1384.1	1305.8	1213.7	1229.2	1121.2
31.5°	1587.4	1542.1	1384.0	1291.9	1213.5	1209.7	1096.8
32°	1586.8	1542.1	1373.2	1291.7	1197.7	1184.8	1096.3
32.5°	1586.8	1537.5	1373.1	1275.8	1180.8	1184.5	1076.2
33°	1585.2	1537.4	1363.1	1275.7	1180.8	1159.2	1075.7
33.5°	1581.7	1533.4	1363.0	1260.6	1158.0	1158.8	1054.2
34°	1581.6	1533.4	1350.5	1244.8	1157.7	1138.8	1027.7
34.5°	1576.0	1528.1	1350.4	1244.8	1138.8	1138.5	1027.7
35°	1575.9	1521.9	1340.4	1227.0	1138.5	1114.1	997.7
35.5°	1576.9	1521.9	1327.5	1226.8	1116.0	1113.8	997.7
36°	1576.8	1516.4	1327.4	1212.0	1115.7	1090.3	965.9
36.5°	1569.5	1516.3	1315.8	1211.8	1095.8	1064.6	965.5
37°	1569.5	1510.8	1315.7	1195.5	1095.5	1064.6	933.9
37.5°	1566.8	1510.7	1302.5	1195.3	1068.5	1041.0	933.5
38°	1566.8	1505.2	1302.4	1179.4	1040.1	1040.5	900.3
38.5°	1562.3	1505.2	1289.3	1161.0	1039.8	1014.3	899.9
39°	1557.8	1500.1	1289.2	1161.0	1039.8	1014.3	865.9
39.5°	1557.7	1495.2	1276.5	1143.5	1011.3	992.7	833.3
40°	1549.8	1495.1	1276.5	1143.5	986.0	992.3	833.3
40.5°	1549.7	1488.3	1263.2	1124.2	985.7	967.5	798.8
41°	1544.3	1488.2	1248.8	1124.0	952.7	966.9	798.8
41.5°	1544.3	1480.3	1248.7	1104.2	952.3	938.3	761.2
42°	1544.5	1480.3	1235.1	1104.0	918.3	907.7	760.7
42.5°	1544.5	1471.0	1234.9	1080.7	883.4	907.1	720.5
43°	1543.9	1471.0	1220.8	1080.5	883.4	874.8	720.0
43.5°	1543.9	1462.8	1220.6	1061.7	851.3	874.3	680.0
44°	1546.8	1462.9	1205.5	1039.1	850.9	841.0	639.5
44.5°	1545.7	1456.5	1205.4	1039.1	815.1	840.4	639.5

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	1545.6	1456.5	1190.7	1015.6	814.7	807.7	598.6
45.5°	1549.4	1450.0	1190.6	1015.6	780.0	807.1	598.6
46°	1549.4	1445.7	1174.1	990.9	779.5	773.6	558.5
46.5°	1548.9	1445.7	1157.6	990.6	745.6	773.0	558.5
47°	1548.9	1443.7	1157.6	966.4	745.2	738.4	518.7
47.5°	1545.6	1443.7	1139.3	966.1	715.6	702.2	518.1
48°	1545.6	1441.7	1139.2	942.4	681.2	701.6	477.6
48.5°	1538.6	1441.6	1118.0	942.0	681.2	663.0	477.0
49°	1534.1	1441.4	1118.0	916.0	648.9	662.5	429.7
49.5°	1534.1	1441.4	1098.2	890.1	648.4	623.2	388.1
50°	1531.0	1441.1	1098.2	890.1	616.5	622.7	388.1
50.5°	1531.0	1442.3	1076.9	864.7	616.1	581.5	350.0
51°	1528.5	1442.3	1055.1	864.3	583.0	580.9	350.0
51.5°	1528.5	1442.3	1055.1	838.7	582.5	539.5	319.2
52°	1527.4	1442.2	1034.1	838.4	546.2	499.3	318.5
52.5°	1527.4	1444.1	1034.2	812.7	545.8	499.3	290.5
53°	1526.1	1444.1	1014.4	812.4	506.4	463.7	289.9
53.5°	1525.6	1446.6	1014.4	787.1	465.9	463.0	252.5
54°	1525.9	1446.6	990.9	761.0	465.5	427.9	251.9
54.5°	1513.7	1452.6	991.0	761.0	422.1	427.2	201.2
55°	1514.4	1452.6	970.7	735.7	421.7	393.6	153.5
55.5°	1494.4	1469.9	971.0	735.7	378.0	392.8	153.5
56°	1494.4	1503.5	950.6	709.2	377.6	350.4	117.3
56.5°	1477.3	1503.2	931.5	708.9	333.0	349.6	117.3
57°	1477.3	1536.7	932.1	682.7	332.5	313.1	77.2
57.5°	1402.1	1535.5	915.2	682.5	293.7	281.6	76.7
58°	1402.1	1568.0	915.8	656.1	260.5	281.1	42.5
58.5°	1221.3	1565.0	898.2	655.8	260.5	251.7	42.0
59°	1221.3	1520.0	897.4	628.9	234.9	251.3	33.4
59.5°	1017.4	1516.6	881.2	604.4	234.5	209.0	32.7
60°	879.7	1366.3	878.6	604.4	210.3	208.6	31.0
60.5°	877.1	1366.3	863.4	578.2	209.9	155.3	29.3
61°	780.0	1164.9	860.0	578.2	173.3	154.7	29.3
61.5°	779.0	977.3	839.7	549.1	172.9	111.2	27.5
62°	764.7	977.0	827.0	548.9	119.0	110.3	27.5
62.5°	764.7	830.7	824.5	519.5	118.5	82.5	25.4
63°	817.8	831.6	816.6	519.4	83.0	58.7	25.1
63.5°	817.8	690.0	814.1	483.8	68.8	58.5	23.2
64°	649.6	687.2	815.6	444.1	68.2	44.3	23.0
64.5°	370.9	735.6	816.5	444.1	62.3	44.2	22.2
65°	366.9	735.6	835.0	398.6	61.5	38.7	22.3
65.5°	136.5	666.3	833.9	398.6	57.4	38.6	22.3
66°	133.5	666.3	856.7	347.2	56.5	35.9	22.4
66.5°	65.0	665.1	879.0	347.5	52.8	35.9	22.4
67°	63.9	440.2	875.2	298.5	52.0	34.3	22.0

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	57.0	440.1	871.2	298.5	49.5	32.9	21.9
68°	57.0	203.4	867.2	256.5	48.8	32.9	21.6
68.5°	61.2	203.4	836.9	256.0	46.4	31.8	21.5
69°	61.2	72.9	834.7	218.7	43.3	31.7	20.8
69.5°	65.0	73.0	776.6	180.1	42.7	30.3	20.8
70°	59.1	46.6	776.2	180.1	39.5	30.2	20.4
70.5°	59.1	46.6	694.8	146.5	39.0	28.7	21.5
71°	58.7	45.6	694.8	146.5	35.7	28.7	21.5
71.5°	58.6	50.4	582.7	124.1	35.3	27.5	38.3
72°	55.5	50.3	466.2	122.2	32.1	27.4	38.3
72.5°	55.5	49.1	466.1	108.8	31.9	26.3	89.2
73°	53.4	49.1	365.2	82.6	28.6	25.4	89.2
73.5°	53.4	48.0	365.2	82.6	25.7	25.3	139.3
74°	56.4	48.0	280.5	81.1	25.7	24.1	139.3
74.5°	56.4	42.9	280.4	71.7	23.5	24.1	162.8
75°	57.5	42.9	209.8	63.3	23.4	21.6	145.4
75.5°	55.8	42.7	209.8	63.3	21.8	21.6	145.4
76°	55.8	42.7	149.6	55.9	21.7	18.8	134.5
76.5°	49.8	45.0	149.6	55.9	20.0	18.8	134.5
77°	49.8	48.1	106.7	49.1	19.9	17.1	112.2
77.5°	44.2	48.0	83.9	48.7	17.7	17.0	112.2
78°	44.2	51.2	84.0	41.5	17.5	16.1	87.7
78.5°	40.5	51.2	77.0	41.4	15.2	15.9	87.7
79°	40.5	51.5	77.0	33.8	13.4	15.9	58.0
79.5°	39.4	51.5	74.0	25.8	13.3	15.3	57.9
80°	40.7	48.5	73.9	25.8	12.0	15.2	37.9
80.5°	40.6	48.5	71.0	21.5	12.0	15.0	27.1
81°	40.4	42.8	70.9	21.5	10.5	15.0	27.1
81.5°	40.3	37.1	67.2	17.5	10.4	23.4	19.2
82°	39.5	37.1	60.6	17.4	9.7	23.4	19.2
82.5°	39.4	31.7	60.5	14.7	9.6	48.2	13.6
83°	38.3	31.7	50.0	14.5	8.8	60.6	13.9
83.5°	38.3	26.1	49.9	12.6	8.8	60.6	10.4
84°	34.8	26.0	37.6	12.4	7.4	54.1	10.3
84.5°	34.8	19.8	37.5	10.8	5.6	54.1	8.2
85°	29.2	19.7	19.0	8.9	5.5	50.9	8.2
85.5°	24.0	14.3	18.9	8.9	3.8	50.9	6.6
86°	24.0	14.3	18.9	7.3	3.8	46.8	5.2
86.5°	20.1	11.0	18.9	7.3	3.1	46.7	5.2
87°	20.1	7.8	0.5	5.8	3.0	43.4	4.0
87.5°	16.1	7.7	0.5	5.8	2.1	43.4	4.0
88°	16.1	5.0	0.3	4.6	2.0	40.0	2.9
88.5°	12.0	5.0	0.3	4.6	1.1	35.6	2.8
89°	12.0	3.1	0.3	3.7	0.6	35.6	1.7
89.5°	7.5	3.1	0.3	3.7	0.6	29.3	1.6

REPORT NUMBER: P1197001

CATALOG NUMBER: AWP28S-BZ-HIGH-4000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	2.8	2.1	0.3	2.9	0.4	29.3	1.0
90.5°	2.8	2.1	0.3	2.4	0.4	21.2	0.7
91°	2.0	1.9	0.3	2.4	0.4	21.2	0.7
91.5°	2.0	1.9	0.3	1.7	0.4	9.5	0.6
92°	1.8	1.9	0.3	1.7	0.3	9.5	0.6
92.5°	1.8	1.7	0.2	1.6	0.3	2.9	0.5
93°	1.8	1.7	0.2	1.6	0.3	2.9	0.5
93.5°	1.8	1.7	0.2	1.6	0.3	2.1	0.6
94°	1.7	1.7	0.2	1.6	0.3	2.0	0.6
94.5°	1.7	1.6	0.3	1.6	0.3	2.0	1.0
95°	1.7	1.6	0.3	1.5	0.3	1.8	1.0
95.5°	1.6	1.6	0.1	1.5	0.3	1.8	0.8
96°	1.6	1.6	0.1	1.5	0.3	1.7	0.5
96.5°	1.6	1.5	0.1	1.5	0.4	1.7	0.5
97°	1.6	1.5	0.1	1.5	0.4	1.6	0.5
97.5°	1.5	1.5	0.1	1.5	0.4	1.6	0.5
98°	1.5	1.4	0.1	1.5	0.4	1.6	0.4
98.5°	1.5	1.4	0.1	1.5	0.4	1.6	0.4
99°	1.5	1.4	0.1	1.3	0.4	1.6	0.4
99.5°	1.3	1.4	0.1	1.3	0.4	1.5	0.4
100°	1.3	1.4	0.1	1.3	0.4	1.5	0.4
100.5°	1.3	1.4	0.1	1.3	0.4	1.5	0.4
101°	1.3	1.4	0.1	1.3	0.4	1.5	0.4
101.5°	1.3	1.4	0.1	1.3	0.4	1.5	0.4
102°	1.3	1.2	0.3	1.3	0.4	1.5	0.4
102.5°	1.3	1.2	0.3	1.2	0.4	1.5	0.5
103°	1.2	1.2	0.3	1.2	0.4	1.5	0.5
103.5°	1.2	1.2	0.3	1.2	0.4	1.5	0.5
104°	1.2	1.2	0.3	1.2	0.4	1.5	0.5
104.5°	1.2	1.2	0.3	1.2	0.5	1.5	0.5
105°	1.2	1.2	0.3	1.2	0.5	1.5	0.5
105.5°	1.2	1.1	0.3	1.2	0.5	1.5	0.5
106°	1.2	1.1	0.3	1.2	0.5	1.4	0.5
106.5°	1.1	1.1	0.3	1.2	0.5	1.4	0.5
107°	1.1	1.1	0.3	1.2	0.5	1.4	0.5
107.5°	1.1	1.1	0.3	1.2	0.5	1.4	0.5
108°	1.1	1.1	0.3	1.2	0.5	1.4	0.5
108.5°	1.1	1.1	0.3	1.2	0.5	1.4	0.5
109°	1.1	1.0	0.3	1.2	0.5	1.4	0.5
109.5°	1.1	1.0	0.3	1.2	0.5	1.4	0.5
110°	1.1	1.1	0.3	1.1	0.6	1.4	0.6
110.5°	1.1	1.1	0.3	1.1	0.6	1.4	0.6
111°	1.0	1.0	0.3	1.1	0.6	1.4	0.6
111.5°	1.0	1.0	0.3	1.1	0.6	1.4	0.6
112°	1.0	1.0	0.3	1.1	0.6	1.4	0.6

REPORT NUMBER: P1197001

CATALOG NUMBER: AWPf28S-BZ-HIGH-4000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	1.0	1.0	0.3	1.1	0.6	1.4	0.6
113°	1.0	1.0	0.4	1.1	0.6	1.4	0.6
113.5°	1.0	1.0	0.4	1.1	0.6	1.4	0.8
114°	1.0	1.0	0.4	1.1	0.6	1.4	0.8
114.5°	1.0	1.0	0.4	1.1	0.6	1.4	0.8
115°	1.0	1.0	0.4	1.1	0.6	1.4	0.8
115.5°	1.0	1.0	0.4	1.1	0.8	1.4	0.8
116°	1.0	1.0	0.4	1.1	0.8	1.4	0.8
116.5°	1.0	1.0	0.4	1.1	0.8	1.4	0.8
117°	1.0	1.0	0.4	1.1	0.8	1.4	0.9
117.5°	0.9	1.0	0.4	1.1	0.8	1.4	0.9
118°	0.9	1.0	0.4	1.1	0.8	1.4	0.9
118.5°	1.0	1.0	0.4	1.1	0.8	1.4	0.9
119°	1.0	1.0	0.4	1.1	0.8	1.4	0.9
119.5°	0.9	1.0	0.4	1.1	0.8	1.4	0.9
120°	0.9	1.0	0.5	1.1	0.8	1.4	0.9
120.5°	0.9	1.0	0.5	1.1	0.8	1.5	0.9
121°	0.9	1.0	0.5	1.1	0.8	1.5	1.0
121.5°	0.9	1.0	0.5	1.2	0.8	1.5	1.0
122°	0.9	1.0	0.5	1.2	0.8	1.5	1.0
122.5°	0.9	1.0	0.5	1.1	0.8	1.5	1.0
123°	0.9	1.0	0.5	1.1	0.9	1.5	1.0
123.5°	0.9	1.0	0.5	1.2	0.9	1.5	1.0
124°	0.9	1.0	0.5	1.2	0.9	1.5	1.0
124.5°	0.9	1.0	0.5	1.2	0.9	1.5	1.0
125°	0.9	1.0	0.5	1.2	0.9	1.5	1.0
125.5°	0.9	1.0	0.5	1.2	0.9	1.5	1.1
126°	0.9	1.0	0.5	1.2	0.9	1.5	1.1
126.5°	0.9	1.0	0.6	1.2	0.9	1.5	1.1
127°	0.9	1.0	0.6	1.2	0.9	1.5	1.1
127.5°	0.9	1.0	0.6	1.2	0.9	1.5	1.1
128°	0.9	1.0	0.6	1.2	0.9	1.5	1.1
128.5°	0.9	1.0	0.6	1.2	0.9	1.5	1.1
129°	0.9	1.0	0.6	1.2	0.9	1.5	1.1
129.5°	0.9	1.0	0.6	1.2	1.0	1.5	1.1
130°	0.9	1.1	0.6	1.2	0.9	1.5	1.1
130.5°	1.0	1.1	0.6	1.2	0.9	1.5	1.1
131°	1.0	1.1	0.6	1.2	1.0	1.5	1.1
131.5°	1.0	1.1	0.6	1.2	1.0	1.5	1.1
132°	1.0	1.1	0.8	1.2	1.0	1.5	1.1
132.5°	1.0	1.1	0.8	1.2	1.0	1.5	1.1
133°	1.0	1.1	0.8	1.2	1.0	1.5	1.1
133.5°	1.0	1.1	0.8	1.2	1.0	1.5	1.2
134°	1.0	1.1	0.8	1.2	1.0	1.5	1.2
134.5°	1.0	1.1	0.8	1.2	1.0	1.5	1.2

REPORT NUMBER: P1197001

CATALOG NUMBER: AWP28S-BZ-HIGH-4000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	1.0	1.1	0.8	1.2	1.0	1.5	1.2
135.5°	1.0	1.1	0.8	1.2	1.0	1.5	1.2
136°	1.0	1.1	0.8	1.2	1.0	1.5	1.2
136.5°	1.0	1.1	0.8	1.2	1.0	1.5	1.2
137°	1.0	1.1	0.8	1.2	1.0	1.5	1.2
137.5°	1.0	1.1	0.8	1.2	1.0	1.5	1.2
138°	1.0	1.1	0.8	1.2	1.0	1.5	1.2
138.5°	1.0	1.1	0.9	1.2	1.0	1.5	1.2
139°	1.0	1.2	0.9	1.2	1.0	1.5	1.2
139.5°	1.0	1.2	0.9	1.2	1.0	1.5	1.2
140°	1.0	1.1	0.9	1.2	1.0	1.5	1.2
140.5°	1.0	1.1	0.9	1.4	1.0	1.5	1.2
141°	1.0	1.2	0.9	1.4	1.0	1.5	1.2
141.5°	1.1	1.2	0.9	1.4	1.0	1.5	1.2
142°	1.1	1.2	0.9	1.4	1.0	1.5	1.2
142.5°	1.1	1.2	0.9	1.4	1.0	1.5	1.2
143°	1.1	1.2	0.9	1.4	1.0	1.5	1.2
143.5°	1.1	1.2	0.9	1.4	1.0	1.5	1.2
144°	1.1	1.2	1.0	1.4	1.1	1.5	1.2
144.5°	1.1	1.2	1.0	1.4	1.1	1.5	1.2
145°	1.1	1.2	1.0	1.4	1.1	1.5	1.2
145.5°	1.1	1.2	1.0	1.4	1.1	1.5	1.2
146°	1.1	1.2	1.0	1.4	1.1	1.5	1.2
146.5°	1.1	1.2	1.0	1.4	1.1	1.5	1.2
147°	1.1	1.2	1.0	1.4	1.1	1.5	1.2
147.5°	1.1	1.2	1.0	1.4	1.1	1.5	1.2
148°	1.1	1.2	1.0	1.4	1.1	1.5	1.2
148.5°	1.1	1.2	1.0	1.4	1.1	1.5	1.2
149°	1.1	1.2	1.0	1.4	1.1	1.5	1.2
149.5°	1.1	1.2	1.0	1.4	1.1	1.5	1.2
150°	1.1	1.2	1.0	1.4	1.1	1.5	1.2
150.5°	1.1	1.2	1.0	1.4	1.1	1.5	1.2
151°	1.1	1.2	1.0	1.4	1.1	1.5	1.2
151.5°	1.1	1.2	1.0	1.4	1.1	1.5	1.2
152°	1.1	1.2	1.0	1.4	1.1	1.5	1.2
152.5°	1.1	1.2	1.0	1.4	1.1	1.5	1.2
153°	1.1	1.2	1.0	1.4	1.1	1.5	1.2
153.5°	1.1	1.2	1.0	1.4	1.1	1.5	1.2
154°	1.2	1.2	1.1	1.4	1.1	1.5	1.2
154.5°	1.2	1.4	1.1	1.4	1.1	1.5	1.2
155°	1.1	1.4	1.1	1.4	1.1	1.5	1.2
155.5°	1.1	1.4	1.1	1.4	1.1	1.5	1.4
156°	1.2	1.4	1.1	1.4	1.1	1.5	1.4
156.5°	1.2	1.4	1.1	1.4	1.1	1.5	1.2
157°	1.2	1.4	1.1	1.4	1.1	1.5	1.2

REPORT NUMBER: P1197001

CATALOG NUMBER: AWPf28S-BZ-HIGH-4000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	1.2	1.4	1.1	1.4	1.2	1.5	1.4
158°	1.2	1.4	1.1	1.4	1.2	1.5	1.4
158.5°	1.2	1.4	1.1	1.4	1.1	1.5	1.4
159°	1.2	1.4	1.1	1.4	1.1	1.5	1.4
159.5°	1.2	1.4	1.1	1.4	1.1	1.5	1.4
160°	1.2	1.4	1.1	1.4	1.1	1.5	1.2
160.5°	1.2	1.4	1.1	1.4	1.2	1.5	1.2
161°	1.2	1.4	1.1	1.4	1.1	1.5	1.2
161.5°	1.2	1.4	1.1	1.4	1.1	1.5	1.2
162°	1.2	1.4	1.1	1.4	1.1	1.5	1.4
162.5°	1.2	1.4	1.1	1.4	1.1	1.5	1.2
163°	1.2	1.4	1.1	1.4	1.2	1.5	1.2
163.5°	1.2	1.4	1.1	1.4	1.2	1.5	1.4
164°	1.2	1.4	1.1	1.4	1.2	1.5	1.4
164.5°	1.2	1.4	1.1	1.4	1.2	1.5	1.2
165°	1.4	1.4	1.1	1.4	1.2	1.5	1.2
165.5°	1.4	1.4	1.1	1.4	1.2	1.5	1.4
166°	1.2	1.4	1.1	1.4	1.2	1.5	1.4
166.5°	1.2	1.4	1.1	1.4	1.2	1.5	1.2
167°	1.4	1.4	1.1	1.4	1.2	1.4	1.2
167.5°	1.4	1.4	1.1	1.4	1.2	1.4	1.4
168°	1.4	1.4	1.1	1.4	1.2	1.5	1.2
168.5°	1.4	1.4	1.1	1.4	1.2	1.5	1.2
169°	1.4	1.4	1.1	1.4	1.2	1.5	1.4
169.5°	1.4	1.4	1.1	1.4	1.2	1.5	1.4
170°	1.4	1.4	1.1	1.4	1.2	1.5	1.2
170.5°	1.4	1.4	1.1	1.4	1.2	1.4	1.2
171°	1.4	1.4	1.1	1.4	1.2	1.4	1.2
171.5°	1.4	1.4	1.1	1.4	1.2	1.5	1.2
172°	1.4	1.4	1.2	1.4	1.2	1.5	1.2
172.5°	1.4	1.4	1.2	1.4	1.2	1.4	1.2
173°	1.4	1.4	1.1	1.4	1.2	1.4	1.4
173.5°	1.4	1.4	1.1	1.4	1.2	1.4	1.2
174°	1.4	1.4	1.2	1.4	1.2	1.4	1.2
174.5°	1.4	1.4	1.2	1.4	1.2	1.4	1.2
175°	1.4	1.4	1.2	1.4	1.2	1.4	1.2
175.5°	1.4	1.4	1.2	1.4	1.2	1.4	1.2
176°	1.4	1.4	1.2	1.4	1.2	1.4	1.2
176.5°	1.4	1.4	1.2	1.4	1.2	1.4	1.4
177°	1.4	1.4	1.2	1.4	1.2	1.4	1.4
177.5°	1.4	1.4	1.2	1.4	1.2	1.4	1.4
178°	1.4	1.4	1.2	1.4	1.2	1.4	1.4
178.5°	1.4	1.4	1.2	1.4	1.2	1.4	1.4
179°	1.4	1.4	1.2	1.4	1.2	1.4	1.4
179.5°	1.4	1.4	1.2	1.4	1.2	1.4	1.4



REPORT NUMBER: P1197001
CATALOG NUMBER: AWPf28S-BZ-HIGH-4000K-POSITION 0

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)