

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1209346

Luminaire Tested: UPW-SA2-110-750-U-SLR

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-947-1)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-750-U-SLR
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATING
RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14177 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 113
Input Voltage (V): NR
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

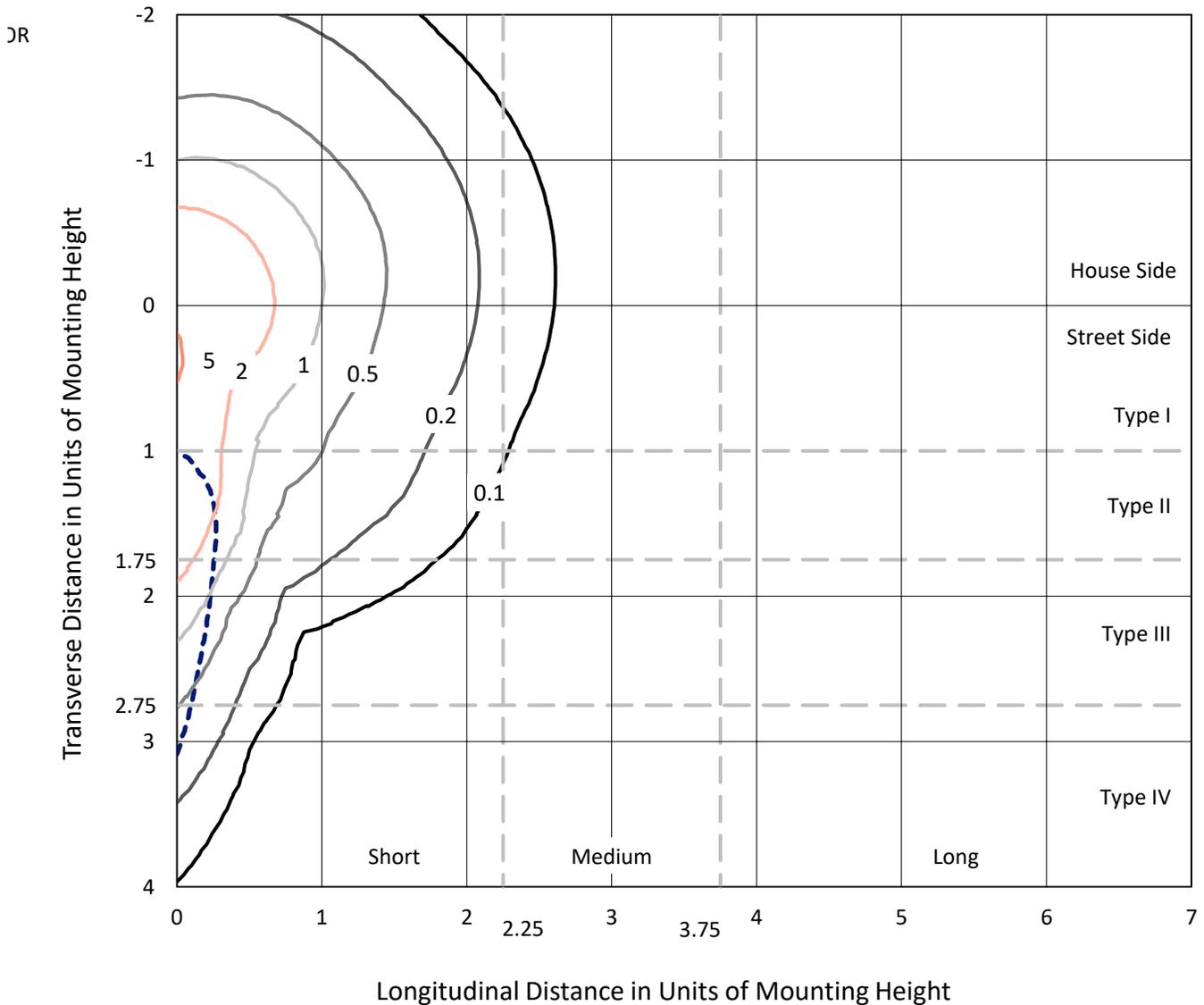


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

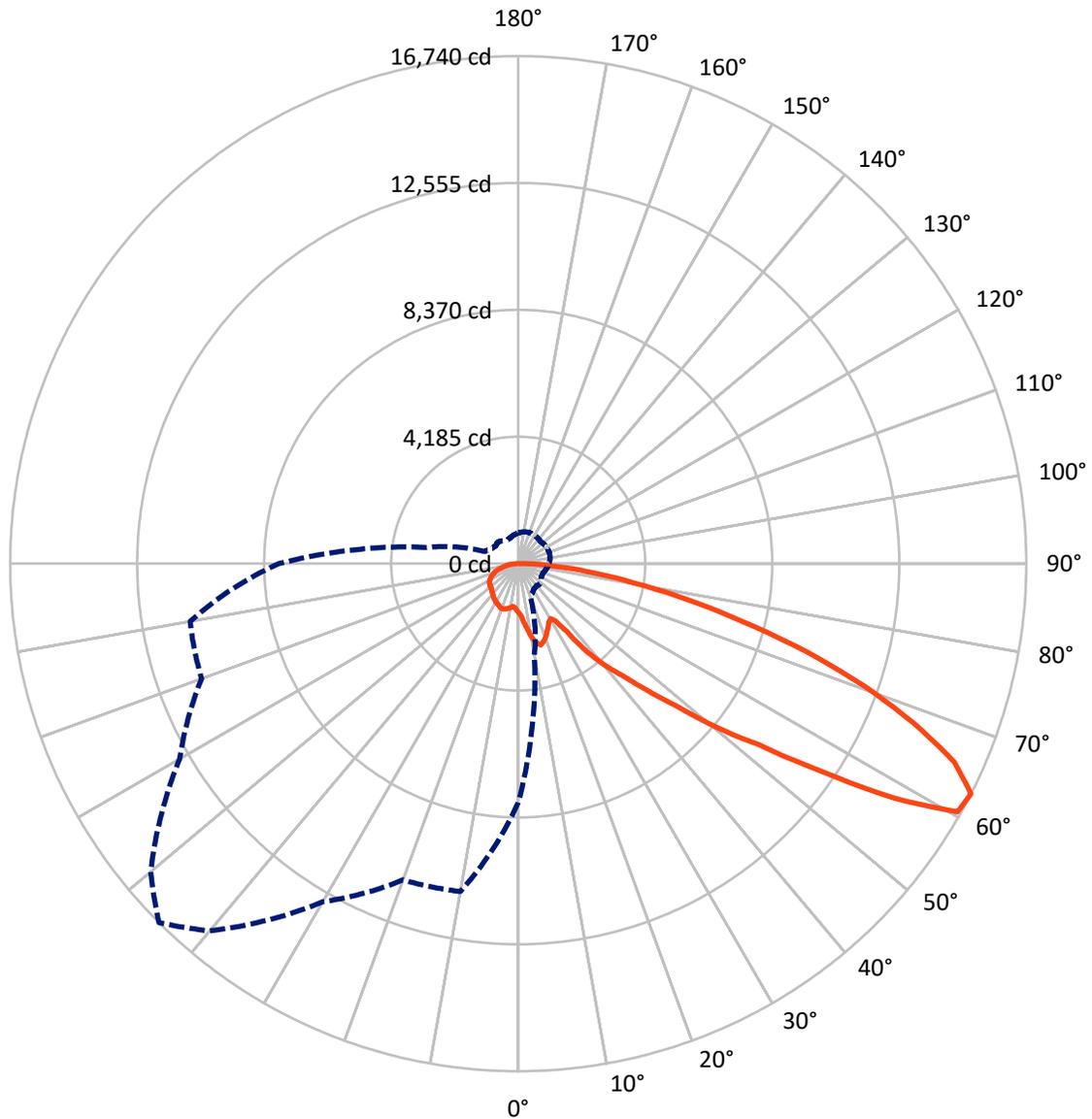


Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3474.3	0.0	3474.3
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	10702.7	0.0	10702.7
	% Fixture	75.5	0.0	75.5
Total	Lumens	14177.0	0.0	14177.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	1.1
10°-20°	543.9	3.8
20°-30°	884.6	6.2
30°-40°	1206.5	8.5
40°-50°	1826.9	12.9
50°-60°	3141.5	22.2
60°-70°	3684.2	26.0
70°-80°	2197.3	15.5
80°-90°	530.8	3.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14177.0	100.0
0°-180°	14177.0	100.0



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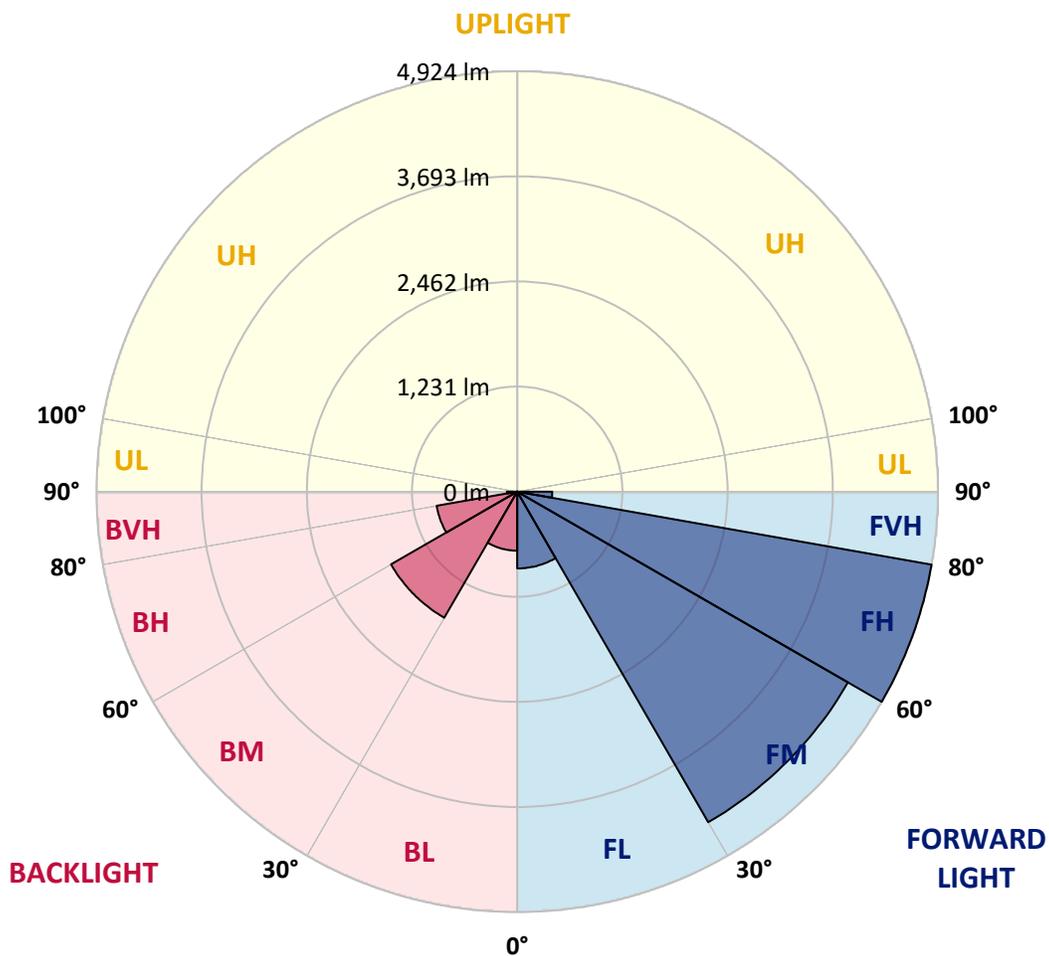
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	898.6	6.3			
FM	(30°-60°)	4469.8	31.5			
FH	(60°-80°)	4924.1	34.7			G2/5000
FVH	(80°-90°)	410.1	2.9			G3/500
BL	(0°-30°)	691.1	4.9	B2/1000		
BM	(30°-60°)	1705.2	12.0	B2/2500		
BH	(60°-80°)	957.4	6.8	B2/1000		G2/1000
BVH	(80°-90°)	120.6	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4
2.5°	1682.6	1678.1	1676.5	1670.7	1664.8	1654.2	1643.7	1636.3	1628.7	1620.0	1606.2
5°	1799.8	1786.7	1768.4	1742.6	1716.6	1692.2	1668.0	1647.5	1627.1	1608.9	1591.9
7.5°	1959.0	1899.5	1849.2	1807.9	1766.5	1727.2	1688.1	1658.0	1627.9	1599.4	1571.3
10°	2074.7	2025.4	1966.9	1896.6	1826.4	1771.6	1717.1	1683.5	1650.1	1623.9	1579.6
12.5°	2214.9	2139.0	2056.5	1971.5	1886.6	1817.5	1748.8	1700.1	1651.7	1615.2	1596.7
15°	2353.5	2261.2	2157.1	2045.2	1933.2	1845.7	1758.3	1702.5	1646.9	1608.9	1598.3
17.5°	2506.4	2371.3	2237.9	2105.4	1972.8	1859.1	1745.1	1679.7	1614.4	1577.2	1594.5
20°	2614.9	2478.5	2334.0	2173.4	2012.4	1869.2	1725.7	1646.8	1567.7	1531.3	1539.0
22.5°	2695.0	2552.5	2397.1	2210.9	2024.8	1854.9	1684.9	1595.6	1506.4	1470.3	1501.5
25°	2803.5	2633.0	2451.3	2234.7	2018.1	1824.5	1631.1	1540.0	1448.9	1418.8	1450.5
27.5°	2873.2	2719.7	2544.4	2300.6	2056.8	1832.1	1607.3	1506.4	1405.3	1372.8	1403.4
30°	2974.6	2816.6	2630.0	2356.7	2083.4	1836.4	1589.4	1483.3	1377.1	1341.9	1351.9
32.5°	3076.8	2906.5	2703.2	2393.1	2083.1	1815.3	1547.6	1447.9	1348.3	1316.6	1326.4
35°	3160.7	2993.4	2778.9	2426.6	2074.2	1785.4	1496.4	1405.1	1313.7	1289.6	1286.6
37.5°	3308.1	3108.1	2853.4	2452.5	2051.7	1740.9	1429.9	1342.7	1255.6	1238.2	1231.5
40°	3513.3	3293.4	2986.8	2511.5	2036.2	1697.8	1359.4	1275.2	1191.1	1185.1	1180.3
42.5°	3799.2	3496.1	3110.4	2567.6	2024.8	1662.0	1299.2	1218.5	1137.9	1126.5	1113.8
45°	4289.6	3823.9	3281.9	2644.4	2007.0	1633.3	1259.5	1178.4	1097.2	1063.9	1063.4
47.5°	5110.3	4372.9	3558.1	2767.0	1976.0	1603.5	1231.0	1157.5	1084.0	1031.4	1011.8
50°	6195.5	5158.6	4000.1	2983.6	1967.4	1592.6	1218.0	1150.5	1083.4	1006.1	969.0
52.5°	7193.7	5843.8	4357.7	3149.7	1941.6	1565.2	1188.6	1136.6	1084.5	1007.6	957.4
55°	8059.5	6304.1	4503.9	3193.1	1882.2	1508.6	1135.2	1116.0	1096.7	1051.2	963.3
57.5°	8683.7	6371.1	4234.6	2989.8	1745.1	1424.2	1103.0	1091.0	1078.9	1079.7	980.4
60°	8576.8	5974.8	3642.7	2547.3	1451.6	1265.9	1080.2	1043.9	1007.6	1042.5	983.9
62.5°	7879.7	5319.2	3059.7	2116.8	1174.0	1085.9	997.8	968.8	939.8	980.7	959.8
65°	7013.0	4591.4	2511.5	1722.2	932.9	915.4	898.0	891.7	885.3	895.9	907.8
67.5°	6016.5	3825.7	2002.9	1354.9	706.9	722.6	738.3	769.0	799.8	804.0	831.8
70°	5159.4	3134.9	1540.3	1052.6	564.8	586.2	607.6	653.1	698.7	720.9	745.7
72.5°	4136.7	2419.0	1128.0	794.1	460.2	478.8	497.5	549.0	600.5	648.8	675.6
75°	3043.5	1740.9	795.3	587.2	379.0	392.8	406.4	454.1	501.9	563.2	591.1
77.5°	2110.3	1199.0	554.8	432.5	310.2	316.9	323.5	366.9	410.3	482.4	511.4
80°	1163.7	690.1	358.1	298.6	239.2	243.8	248.4	284.5	320.8	385.0	418.7
82.5°	575.9	368.0	225.3	201.1	176.7	179.2	181.9	209.3	236.9	282.8	319.1
85°	226.6	166.4	126.4	119.8	113.3	114.7	116.0	133.2	150.5	179.0	215.8
87.5°	81.6	63.4	52.6	50.4	47.8	46.3	44.7	53.6	62.1	77.6	122.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4
2.5°	1599.2	1592.3	1585.6	1578.8	1572.5	1566.1	1561.4	1556.6	1547.3	1538.1	1532.8
5°	1572.9	1553.9	1537.4	1521.0	1510.7	1500.4	1489.3	1478.2	1469.6	1461.1	1454.4
7.5°	1549.0	1526.5	1508.3	1490.1	1475.2	1460.4	1449.8	1439.4	1437.3	1435.4	1431.0
10°	1556.0	1532.4	1514.6	1496.9	1483.3	1469.9	1462.5	1455.2	1452.8	1450.5	1450.3
12.5°	1585.8	1574.8	1562.0	1549.2	1535.5	1522.2	1522.7	1523.3	1511.8	1500.4	1497.4
15°	1601.9	1605.7	1609.8	1614.1	1610.5	1606.8	1593.7	1580.4	1566.7	1553.0	1548.5
17.5°	1607.1	1619.5	1638.5	1657.5	1665.5	1673.4	1657.8	1642.2	1620.1	1598.3	1587.8
20°	1568.5	1597.8	1633.6	1669.6	1682.7	1696.0	1681.0	1665.9	1641.4	1616.8	1600.5
22.5°	1537.6	1573.6	1611.1	1648.5	1660.2	1671.8	1663.4	1654.8	1628.4	1601.8	1584.2
25°	1485.9	1521.3	1557.4	1593.5	1609.8	1626.3	1624.3	1622.4	1594.8	1567.2	1547.9
27.5°	1433.2	1463.1	1494.8	1526.5	1544.9	1563.4	1566.0	1568.5	1547.9	1527.3	1509.2
30°	1372.5	1392.9	1420.8	1448.4	1467.4	1486.4	1493.1	1499.6	1486.4	1473.4	1461.1
32.5°	1335.0	1343.5	1363.3	1383.1	1401.2	1419.2	1429.2	1439.4	1437.1	1435.1	1430.3
35°	1286.2	1285.7	1294.6	1303.6	1319.9	1336.4	1355.9	1375.2	1377.7	1380.3	1382.2
37.5°	1226.0	1220.3	1226.1	1231.8	1246.1	1260.3	1280.5	1300.7	1315.2	1329.6	1336.2
40°	1172.4	1164.5	1165.1	1165.8	1178.6	1191.4	1210.4	1229.4	1256.2	1283.0	1297.7
42.5°	1110.0	1106.2	1104.1	1101.9	1112.8	1123.6	1152.4	1181.1	1211.1	1240.8	1254.0
45°	1054.8	1046.5	1049.5	1052.3	1066.1	1079.7	1104.6	1129.6	1163.9	1198.1	1214.4
47.5°	1007.3	1002.9	1007.6	1012.4	1026.3	1040.1	1070.7	1101.1	1134.5	1168.0	1185.2
50°	966.3	963.6	977.2	990.5	1006.4	1022.2	1048.7	1075.0	1110.6	1146.3	1170.0
52.5°	950.4	943.5	963.3	983.1	995.1	1007.3	1032.0	1056.8	1095.7	1134.7	1157.8
55°	940.6	918.1	942.4	966.4	981.0	995.8	1023.2	1050.4	1085.1	1119.8	1142.0
57.5°	937.3	894.4	918.1	941.9	967.2	992.6	1020.3	1048.0	1083.5	1118.9	1137.9
60°	933.8	883.7	897.5	911.3	947.6	983.9	1010.0	1036.2	1069.1	1101.9	1115.1
62.5°	917.3	874.9	873.3	871.7	910.7	949.3	979.3	1009.2	1039.2	1069.1	1078.3
65°	880.1	852.4	840.0	827.8	862.0	896.4	928.3	960.1	984.8	1009.5	1020.9
67.5°	816.6	801.4	791.8	782.3	815.8	849.2	873.8	898.3	922.9	947.4	956.8
70°	747.8	749.7	742.7	735.4	760.2	784.6	816.1	847.6	861.2	874.9	880.1
72.5°	675.6	675.7	672.4	668.9	693.1	717.4	738.1	758.9	771.7	784.6	790.6
75°	593.8	596.5	594.3	592.2	613.0	633.7	652.7	671.8	685.7	699.5	703.1
77.5°	517.9	524.4	521.9	519.3	532.0	544.7	552.8	560.9	576.7	592.5	595.6
80°	428.2	437.6	437.0	436.0	442.0	448.0	450.1	452.3	464.1	475.6	478.8
82.5°	333.8	348.6	359.3	369.9	373.9	377.9	360.4	343.0	352.4	361.5	368.8
85°	243.0	270.1	289.9	309.7	298.0	286.4	241.5	196.5	214.2	232.1	244.0
87.5°	150.0	177.8	187.9	198.0	182.4	166.7	133.7	100.6	115.0	129.6	141.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4
2.5°	1527.6	1525.9	1524.1	1527.9	1531.7	1536.8	1531.7	1527.9	1524.1	1525.9	1527.6
5°	1447.8	1444.9	1442.1	1443.0	1443.6	1443.3	1443.6	1443.0	1442.1	1444.9	1447.8
7.5°	1426.7	1426.2	1425.9	1427.2	1428.3	1422.7	1428.3	1427.2	1425.9	1426.2	1426.7
10°	1450.0	1454.4	1458.9	1462.5	1466.3	1463.9	1466.3	1462.5	1458.9	1454.4	1450.0
12.5°	1494.3	1500.0	1505.4	1507.5	1509.6	1505.1	1509.6	1507.5	1505.4	1500.0	1494.3
15°	1543.9	1543.5	1543.1	1541.2	1539.2	1536.8	1539.2	1541.2	1543.1	1543.5	1543.9
17.5°	1577.7	1573.1	1568.5	1566.3	1564.1	1566.9	1564.1	1566.3	1568.5	1573.1	1577.7
20°	1584.3	1582.0	1579.6	1579.4	1579.3	1578.0	1579.3	1579.4	1579.6	1582.0	1584.3
22.5°	1566.6	1559.1	1551.9	1555.0	1558.2	1568.5	1558.2	1555.0	1551.9	1559.1	1566.6
25°	1528.6	1524.9	1521.3	1520.3	1519.4	1514.6	1519.4	1520.3	1521.3	1524.9	1528.6
27.5°	1491.2	1488.0	1484.8	1489.0	1492.8	1495.6	1492.8	1489.0	1484.8	1488.0	1491.2
30°	1448.9	1449.5	1450.0	1456.2	1462.3	1473.4	1462.3	1456.2	1450.0	1449.5	1448.9
32.5°	1425.6	1419.2	1412.9	1415.0	1417.2	1425.9	1417.2	1415.0	1412.9	1419.2	1425.6
35°	1383.9	1383.9	1383.9	1389.1	1394.2	1405.3	1394.2	1389.1	1383.9	1383.9	1383.9
37.5°	1342.7	1348.0	1353.0	1355.2	1357.5	1357.8	1357.5	1355.2	1353.0	1348.0	1342.7
40°	1312.6	1313.3	1313.7	1310.6	1307.4	1308.7	1307.4	1310.6	1313.7	1313.3	1312.6
42.5°	1267.1	1272.9	1278.6	1280.0	1281.4	1284.9	1281.4	1280.0	1278.6	1272.9	1267.1
45°	1230.7	1233.6	1236.6	1235.8	1235.0	1231.0	1235.0	1235.8	1236.6	1233.6	1230.7
47.5°	1202.5	1205.0	1207.6	1209.6	1211.7	1215.2	1211.7	1209.6	1207.6	1205.0	1202.5
50°	1193.8	1193.0	1192.2	1185.9	1179.5	1177.2	1179.5	1185.9	1192.2	1193.0	1193.8
52.5°	1180.6	1182.7	1184.8	1181.1	1177.5	1178.7	1177.5	1181.1	1184.8	1182.7	1180.6
55°	1164.2	1166.4	1168.9	1161.9	1155.0	1150.2	1155.0	1161.9	1168.9	1166.4	1164.2
57.5°	1156.9	1152.6	1148.3	1142.9	1137.6	1139.1	1137.6	1142.9	1148.3	1152.6	1156.9
60°	1128.0	1123.0	1117.7	1106.0	1094.5	1085.3	1094.5	1106.0	1117.7	1123.0	1128.0
62.5°	1087.6	1082.7	1077.7	1064.5	1051.2	1034.6	1051.2	1064.5	1077.7	1082.7	1087.6
65°	1032.2	1024.1	1015.9	1002.7	989.4	980.7	989.4	1002.7	1015.9	1024.1	1032.2
67.5°	966.1	957.1	948.2	930.8	913.4	899.9	913.4	930.8	948.2	957.1	966.1
70°	885.3	876.8	868.2	857.1	846.0	836.5	846.0	857.1	868.2	876.8	885.3
72.5°	796.6	787.1	777.6	762.7	747.8	738.3	747.8	762.7	777.6	787.1	796.6
75°	706.6	694.7	682.8	667.3	652.0	638.5	652.0	667.3	682.8	694.7	706.6
77.5°	598.6	589.5	580.7	566.2	551.7	538.7	551.7	566.2	580.7	589.5	598.6
80°	482.0	477.7	473.4	461.4	449.6	432.5	449.6	461.4	473.4	477.7	482.0
82.5°	375.8	373.9	372.0	362.0	352.0	337.5	352.0	362.0	372.0	373.9	375.8
85°	255.9	257.9	259.8	252.9	245.9	234.5	245.9	252.9	259.8	257.9	255.9
87.5°	153.4	145.6	137.8	122.0	106.2	88.7	106.2	122.0	137.8	145.6	153.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1209346

CATALOG NUMBER: UPW-SA2-110-750-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4
2.5°	1532.8	1538.1	1547.3	1556.6	1561.4	1566.1	1572.5	1578.8	1585.6	1592.3	1599.2
5°	1454.4	1461.1	1469.6	1478.2	1489.3	1500.4	1510.7	1521.0	1537.4	1553.9	1572.9
7.5°	1431.0	1435.4	1437.3	1439.4	1449.8	1460.4	1475.2	1490.1	1508.3	1526.5	1549.0
10°	1450.3	1450.5	1452.8	1455.2	1462.5	1469.9	1483.3	1496.9	1514.6	1532.4	1556.0
12.5°	1497.4	1500.4	1511.8	1523.3	1522.7	1522.2	1535.5	1549.2	1562.0	1574.8	1585.8
15°	1548.5	1553.0	1566.7	1580.4	1593.7	1606.8	1610.5	1614.1	1609.8	1605.7	1601.9
17.5°	1587.8	1598.3	1620.1	1642.2	1657.8	1673.4	1665.5	1657.5	1638.5	1619.5	1607.1
20°	1600.5	1616.8	1641.4	1665.9	1681.0	1696.0	1682.7	1669.6	1633.6	1597.8	1568.5
22.5°	1584.2	1601.8	1628.4	1654.8	1663.4	1671.8	1660.2	1648.5	1611.1	1573.6	1537.6
25°	1547.9	1567.2	1594.8	1622.4	1624.3	1626.3	1609.8	1593.5	1557.4	1521.3	1485.9
27.5°	1509.2	1527.3	1547.9	1568.5	1566.0	1563.4	1544.9	1526.5	1494.8	1463.1	1433.2
30°	1461.1	1473.4	1486.4	1499.6	1493.1	1486.4	1467.4	1448.4	1420.8	1392.9	1372.5
32.5°	1430.3	1435.1	1437.1	1439.4	1429.2	1419.2	1401.2	1383.1	1363.3	1343.5	1335.0
35°	1382.2	1380.3	1377.7	1375.2	1355.9	1336.4	1319.9	1303.6	1294.6	1285.7	1286.2
37.5°	1336.2	1329.6	1315.2	1300.7	1280.5	1260.3	1246.1	1231.8	1226.1	1220.3	1226.0
40°	1297.7	1283.0	1256.2	1229.4	1210.4	1191.4	1178.6	1165.8	1165.1	1164.5	1172.4
42.5°	1254.0	1240.8	1211.1	1181.1	1152.4	1123.6	1112.8	1101.9	1104.1	1106.2	1110.0
45°	1214.4	1198.1	1163.9	1129.6	1104.6	1079.7	1066.1	1052.3	1049.5	1046.5	1054.8
47.5°	1185.2	1168.0	1134.5	1101.1	1070.7	1040.1	1026.3	1012.4	1007.6	1002.9	1007.3
50°	1170.0	1146.3	1110.6	1075.0	1048.7	1022.2	1006.4	990.5	977.2	963.6	966.3
52.5°	1157.8	1134.7	1095.7	1056.8	1032.0	1007.3	995.1	983.1	963.3	943.5	950.4
55°	1142.0	1119.8	1085.1	1050.4	1023.2	995.8	981.0	966.4	942.4	918.1	940.6
57.5°	1137.9	1118.9	1083.5	1048.0	1020.3	992.6	967.2	941.9	918.1	894.4	937.3
60°	1115.1	1101.9	1069.1	1036.2	1010.0	983.9	947.6	911.3	897.5	883.7	933.8
62.5°	1078.3	1069.1	1039.2	1009.2	979.3	949.3	910.7	871.7	873.3	874.9	917.3
65°	1020.9	1009.5	984.8	960.1	928.3	896.4	862.0	827.8	840.0	852.4	880.1
67.5°	956.8	947.4	922.9	898.3	873.8	849.2	815.8	782.3	791.8	801.4	816.6
70°	880.1	874.9	861.2	847.6	816.1	784.6	760.2	735.4	742.7	749.7	747.8
72.5°	790.6	784.6	771.7	758.9	738.1	717.4	693.1	668.9	672.4	675.7	675.6
75°	703.1	699.5	685.7	671.8	652.7	633.7	613.0	592.2	594.3	596.5	593.8
77.5°	595.6	592.5	576.7	560.9	552.8	544.7	532.0	519.3	521.9	524.4	517.9
80°	478.8	475.6	464.1	452.3	450.1	448.0	442.0	436.0	437.0	437.6	428.2
82.5°	368.8	361.5	352.4	343.0	360.4	377.9	373.9	369.9	359.3	348.6	333.8
85°	244.0	232.1	214.2	196.5	241.5	286.4	298.0	309.7	289.9	270.1	243.0
87.5°	141.3	129.6	115.0	100.6	133.7	166.7	182.4	198.0	187.9	177.8	150.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1209346

CATALOG NUMBER: UPW-SA2-110-750-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4
2.5°	1606.2	1620.0	1628.7	1636.3	1643.7	1654.2	1664.8	1670.7	1676.5	1678.1	1682.6
5°	1591.9	1608.9	1627.1	1647.5	1668.0	1692.2	1716.6	1742.6	1768.4	1786.7	1799.8
7.5°	1571.3	1599.4	1627.9	1658.0	1688.1	1727.2	1766.5	1807.9	1849.2	1899.5	1959.0
10°	1579.6	1623.9	1650.1	1683.5	1717.1	1771.6	1826.4	1896.6	1966.9	2025.4	2074.7
12.5°	1596.7	1615.2	1651.7	1700.1	1748.8	1817.5	1886.6	1971.5	2056.5	2139.0	2214.9
15°	1598.3	1608.9	1646.9	1702.5	1758.3	1845.7	1933.2	2045.2	2157.1	2261.2	2353.5
17.5°	1594.5	1577.2	1614.4	1679.7	1745.1	1859.1	1972.8	2105.4	2237.9	2371.3	2506.4
20°	1539.0	1531.3	1567.7	1646.8	1725.7	1869.2	2012.4	2173.4	2334.0	2478.5	2614.9
22.5°	1501.5	1470.3	1506.4	1595.6	1684.9	1854.9	2024.8	2210.9	2397.1	2552.5	2695.0
25°	1450.5	1418.8	1448.9	1540.0	1631.1	1824.5	2018.1	2234.7	2451.3	2633.0	2803.5
27.5°	1403.4	1372.8	1405.3	1506.4	1607.3	1832.1	2056.8	2300.6	2544.4	2719.7	2873.2
30°	1351.9	1341.9	1377.1	1483.3	1589.4	1836.4	2083.4	2356.7	2630.0	2816.6	2974.6
32.5°	1326.4	1316.6	1348.3	1447.9	1547.6	1815.3	2083.1	2393.1	2703.2	2906.5	3076.8
35°	1286.6	1289.6	1313.7	1405.1	1496.4	1785.4	2074.2	2426.6	2778.9	2993.4	3160.7
37.5°	1231.5	1238.2	1255.6	1342.7	1429.9	1740.9	2051.7	2452.5	2853.4	3108.1	3308.1
40°	1180.3	1185.1	1191.1	1275.2	1359.4	1697.8	2036.2	2511.5	2986.8	3293.4	3513.3
42.5°	1113.8	1126.5	1137.9	1218.5	1299.2	1662.0	2024.8	2567.6	3110.4	3496.1	3799.2
45°	1063.4	1063.9	1097.2	1178.4	1259.5	1633.3	2007.0	2644.4	3281.9	3823.9	4289.6
47.5°	1011.8	1031.4	1084.0	1157.5	1231.0	1603.5	1976.0	2767.0	3558.1	4372.9	5110.3
50°	969.0	1006.1	1083.4	1150.5	1218.0	1592.6	1967.4	2983.6	4000.1	5158.6	6195.5
52.5°	957.4	1007.6	1084.5	1136.6	1188.6	1565.2	1941.6	3149.7	4357.7	5843.8	7193.7
55°	963.3	1051.2	1096.7	1116.0	1135.2	1508.6	1882.2	3193.1	4503.9	6304.1	8059.5
57.5°	980.4	1079.7	1078.9	1091.0	1103.0	1424.2	1745.1	2989.8	4234.6	6371.1	8683.7
60°	983.9	1042.5	1007.6	1043.9	1080.2	1265.9	1451.6	2547.3	3642.7	5974.8	8576.8
62.5°	959.8	980.7	939.8	968.8	997.8	1085.9	1174.0	2116.8	3059.7	5319.2	7879.7
65°	907.8	895.9	885.3	891.7	898.0	915.4	932.9	1722.2	2511.5	4591.4	7013.0
67.5°	831.8	804.0	799.8	769.0	738.3	722.6	706.9	1354.9	2002.9	3825.7	6016.5
70°	745.7	720.9	698.7	653.1	607.6	586.2	564.8	1052.6	1540.3	3134.9	5159.4
72.5°	675.6	648.8	600.5	549.0	497.5	478.8	460.2	794.1	1128.0	2419.0	4136.7
75°	591.1	563.2	501.9	454.1	406.4	392.8	379.0	587.2	795.3	1740.9	3043.5
77.5°	511.4	482.4	410.3	366.9	323.5	316.9	310.2	432.5	554.8	1199.0	2110.3
80°	418.7	385.0	320.8	284.5	248.4	243.8	239.2	298.6	358.1	690.1	1163.7
82.5°	319.1	282.8	236.9	209.3	181.9	179.2	176.7	201.1	225.3	368.0	575.9
85°	215.8	179.0	150.5	133.2	116.0	114.7	113.3	119.8	126.4	166.4	226.6
87.5°	122.3	77.6	62.1	53.6	44.7	46.3	47.8	50.4	52.6	63.4	81.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1209346

CATALOG NUMBER: UPW-SA2-110-750-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4
2.5°	1689.7	1696.8	1699.8	1702.8	1705.7	1708.7	1710.9	1713.3	1707.9	1713.3	1710.9
5°	1822.0	1844.2	1863.3	1882.5	1897.1	1911.5	1918.6	1925.9	1937.6	1925.9	1918.6
7.5°	1989.3	2019.7	2061.4	2103.2	2131.6	2159.8	2172.1	2184.5	2188.0	2184.5	2172.1
10°	2152.3	2229.9	2276.1	2322.3	2356.1	2390.0	2419.0	2448.1	2481.1	2448.1	2419.0
12.5°	2303.3	2391.6	2458.1	2524.6	2567.4	2610.2	2638.9	2667.7	2677.5	2667.7	2638.9
15°	2450.0	2546.3	2608.8	2671.2	2704.5	2737.7	2752.0	2766.2	2783.7	2766.2	2752.0
17.5°	2578.7	2650.9	2692.1	2733.3	2734.7	2736.1	2718.2	2700.3	2696.5	2700.3	2718.2
20°	2674.7	2734.6	2735.4	2736.1	2700.5	2664.8	2633.8	2602.9	2588.8	2602.9	2633.8
22.5°	2736.0	2777.0	2734.7	2692.6	2613.4	2534.1	2489.1	2444.2	2432.0	2444.2	2489.1
25°	2809.8	2816.2	2730.1	2644.3	2533.7	2423.2	2365.6	2307.7	2294.1	2307.7	2365.6
27.5°	2853.2	2833.1	2702.7	2572.2	2442.4	2312.8	2247.1	2181.3	2162.6	2181.3	2247.1
30°	2902.2	2829.6	2661.5	2493.4	2362.9	2232.3	2177.3	2122.4	2105.6	2122.4	2177.3
32.5°	2956.0	2835.2	2655.0	2474.7	2383.8	2292.8	2278.0	2262.9	2251.3	2262.9	2278.0
35°	3025.1	2889.5	2753.7	2618.1	2631.9	2645.8	2694.6	2743.6	2742.5	2743.6	2694.6
37.5°	3169.3	3030.5	3008.0	2985.7	3160.7	3335.8	3476.3	3616.7	3689.9	3616.7	3476.3
40°	3415.8	3318.4	3399.7	3480.8	3724.1	3967.5	4133.8	4300.2	4421.9	4300.2	4133.8
42.5°	3743.8	3688.3	3789.9	3891.4	4158.6	4425.4	4652.2	4878.8	5049.3	4878.8	4652.2
45°	4232.4	4175.0	4223.5	4271.7	4606.0	4940.3	5295.5	5650.7	5950.8	5650.7	5295.5
47.5°	4977.2	4844.1	4803.5	4762.8	5213.2	5663.7	6182.7	6702.0	7010.7	6702.0	6182.7
50°	5987.5	5779.6	5589.8	5400.2	6035.7	6671.3	7427.4	8183.4	8501.5	8183.4	7427.4
52.5°	7002.8	6811.8	6478.3	6144.8	6896.9	7649.2	8631.0	9612.8	9917.9	9612.8	8631.0
55°	8139.4	8219.2	7768.0	7316.8	8151.2	8985.5	10243.3	11501.0	12039.3	11501.0	10243.3
57.5°	9393.8	10104.1	9621.8	9139.7	9918.6	10697.4	12192.4	13687.5	14588.5	13687.5	12192.4
60°	10000.2	11423.4	11209.3	10995.3	11660.7	12326.1	13948.2	15570.3	16622.8	15570.3	13948.2
62.5°	9428.7	10977.8	11038.2	11098.6	11987.2	12875.9	14342.3	15808.8	16740.1	15808.8	14342.3
65°	8471.1	9929.0	10018.5	10108.0	11135.5	12162.9	13601.3	15039.8	15791.0	15039.8	13601.3
67.5°	7532.7	9048.9	9102.9	9157.1	10096.2	11035.2	12329.9	13624.6	14056.2	13624.6	12329.9
70°	6603.7	8048.1	8166.4	8284.8	9104.8	9924.6	10883.3	11841.9	12088.5	11841.9	10883.3
72.5°	5589.4	7042.0	7223.0	7403.9	8004.7	8605.3	9275.6	9945.8	9922.7	9945.8	9275.6
75°	4404.8	5766.2	6016.5	6266.8	6635.2	7003.5	7357.5	7711.6	7611.1	7711.6	7357.5
77.5°	3211.3	4312.2	4577.3	4842.5	5102.3	5362.2	5611.7	5861.2	5703.6	5861.2	5611.7
80°	1948.1	2732.7	3031.0	3329.5	3601.0	3872.4	4001.2	4129.9	3864.2	4129.9	4001.2
82.5°	1014.0	1452.0	1748.9	2045.7	2320.9	2595.9	2676.6	2757.1	2503.2	2757.1	2676.6
85°	446.5	666.2	887.9	1109.3	1326.1	1542.8	1551.1	1559.5	1376.8	1559.5	1551.1
87.5°	171.4	261.4	375.5	489.6	606.0	722.5	718.3	714.1	589.4	714.1	718.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1209346

CATALOG NUMBER: UPW-SA2-110-750-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4
2.5°	1708.7	1705.7	1702.8	1699.8	1696.8	1689.7	1682.6
5°	1911.5	1897.1	1882.5	1863.3	1844.2	1822.0	1799.8
7.5°	2159.8	2131.6	2103.2	2061.4	2019.7	1989.3	1959.0
10°	2390.0	2356.1	2322.3	2276.1	2229.9	2152.3	2074.7
12.5°	2610.2	2567.4	2524.6	2458.1	2391.6	2303.3	2214.9
15°	2737.7	2704.5	2671.2	2608.8	2546.3	2450.0	2353.5
17.5°	2736.1	2734.7	2733.3	2692.1	2650.9	2578.7	2506.4
20°	2664.8	2700.5	2736.1	2735.4	2734.6	2674.7	2614.9
22.5°	2534.1	2613.4	2692.6	2734.7	2777.0	2736.0	2695.0
25°	2423.2	2533.7	2644.3	2730.1	2816.2	2809.8	2803.5
27.5°	2312.8	2442.4	2572.2	2702.7	2833.1	2853.2	2873.2
30°	2232.3	2362.9	2493.4	2661.5	2829.6	2902.2	2974.6
32.5°	2292.8	2383.8	2474.7	2655.0	2835.2	2956.0	3076.8
35°	2645.8	2631.9	2618.1	2753.7	2889.5	3025.1	3160.7
37.5°	3335.8	3160.7	2985.7	3008.0	3030.5	3169.3	3308.1
40°	3967.5	3724.1	3480.8	3399.7	3318.4	3415.8	3513.3
42.5°	4425.4	4158.6	3891.4	3789.9	3688.3	3743.8	3799.2
45°	4940.3	4606.0	4271.7	4223.5	4175.0	4232.4	4289.6
47.5°	5663.7	5213.2	4762.8	4803.5	4844.1	4977.2	5110.3
50°	6671.3	6035.7	5400.2	5589.8	5779.6	5987.5	6195.5
52.5°	7649.2	6896.9	6144.8	6478.3	6811.8	7002.8	7193.7
55°	8985.5	8151.2	7316.8	7768.0	8219.2	8139.4	8059.5
57.5°	10697.4	9918.6	9139.7	9621.8	10104.1	9393.8	8683.7
60°	12326.1	11660.7	10995.3	11209.3	11423.4	10000.2	8576.8
62.5°	12875.9	11987.2	11098.6	11038.2	10977.8	9428.7	7879.7
65°	12162.9	11135.5	10108.0	10018.5	9929.0	8471.1	7013.0
67.5°	11035.2	10096.2	9157.1	9102.9	9048.9	7532.7	6016.5
70°	9924.6	9104.8	8284.8	8166.4	8048.1	6603.7	5159.4
72.5°	8605.3	8004.7	7403.9	7223.0	7042.0	5589.4	4136.7
75°	7003.5	6635.2	6266.8	6016.5	5766.2	4404.8	3043.5
77.5°	5362.2	5102.3	4842.5	4577.3	4312.2	3211.3	2110.3
80°	3872.4	3601.0	3329.5	3031.0	2732.7	1948.1	1163.7
82.5°	2595.9	2320.9	2045.7	1748.9	1452.0	1014.0	575.9
85°	1542.8	1326.1	1109.3	887.9	666.2	446.5	226.6
87.5°	722.5	606.0	489.6	375.5	261.4	171.4	81.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)