

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: P1209101

Luminaire Tested: UPW-SA2-090-750-U-SLL

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209101
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-SA2-090-750-U-SLL
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR
LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11454 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

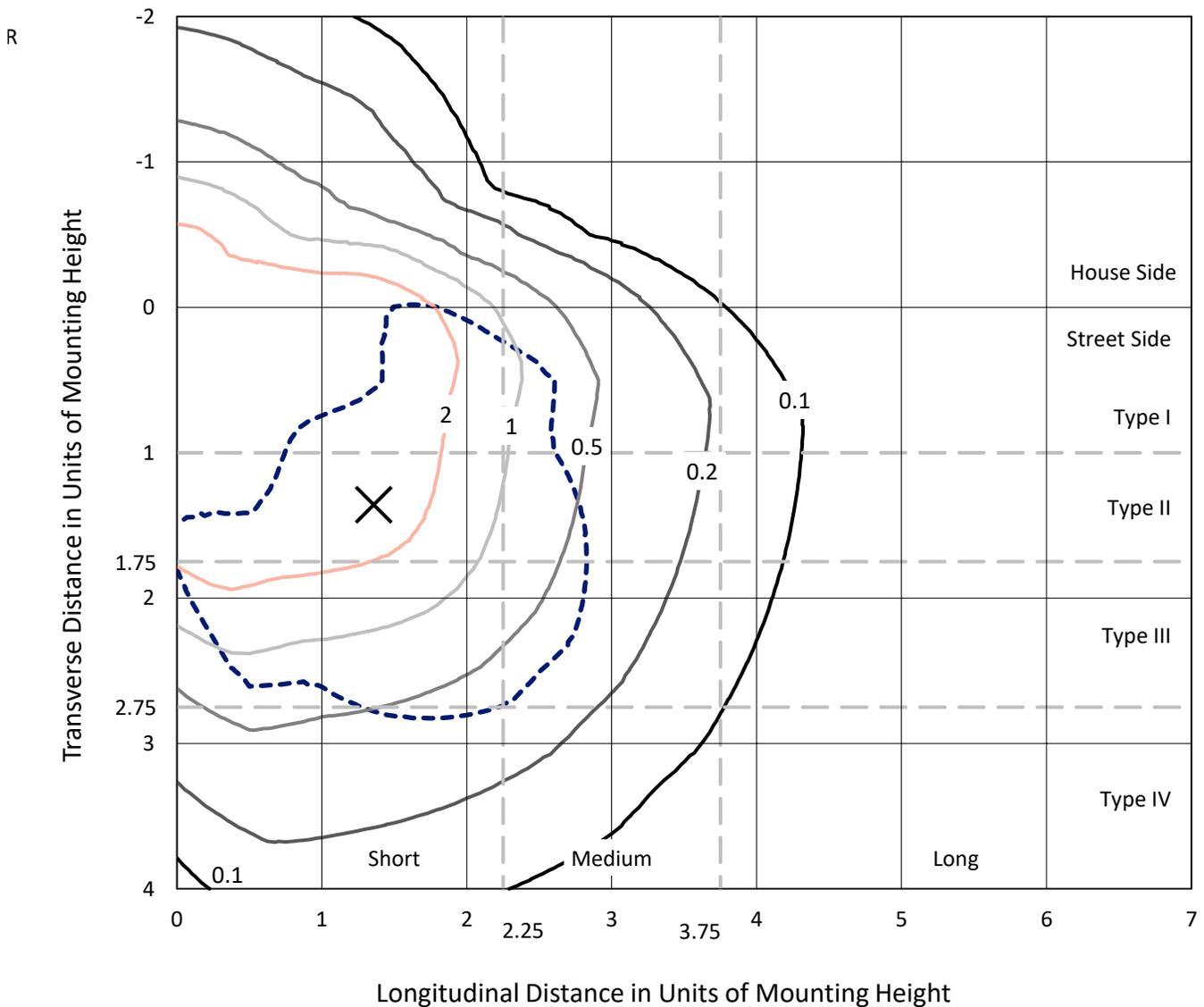
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P1209101
 CATALOG NUMBER: UPW-SA2-090-750-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

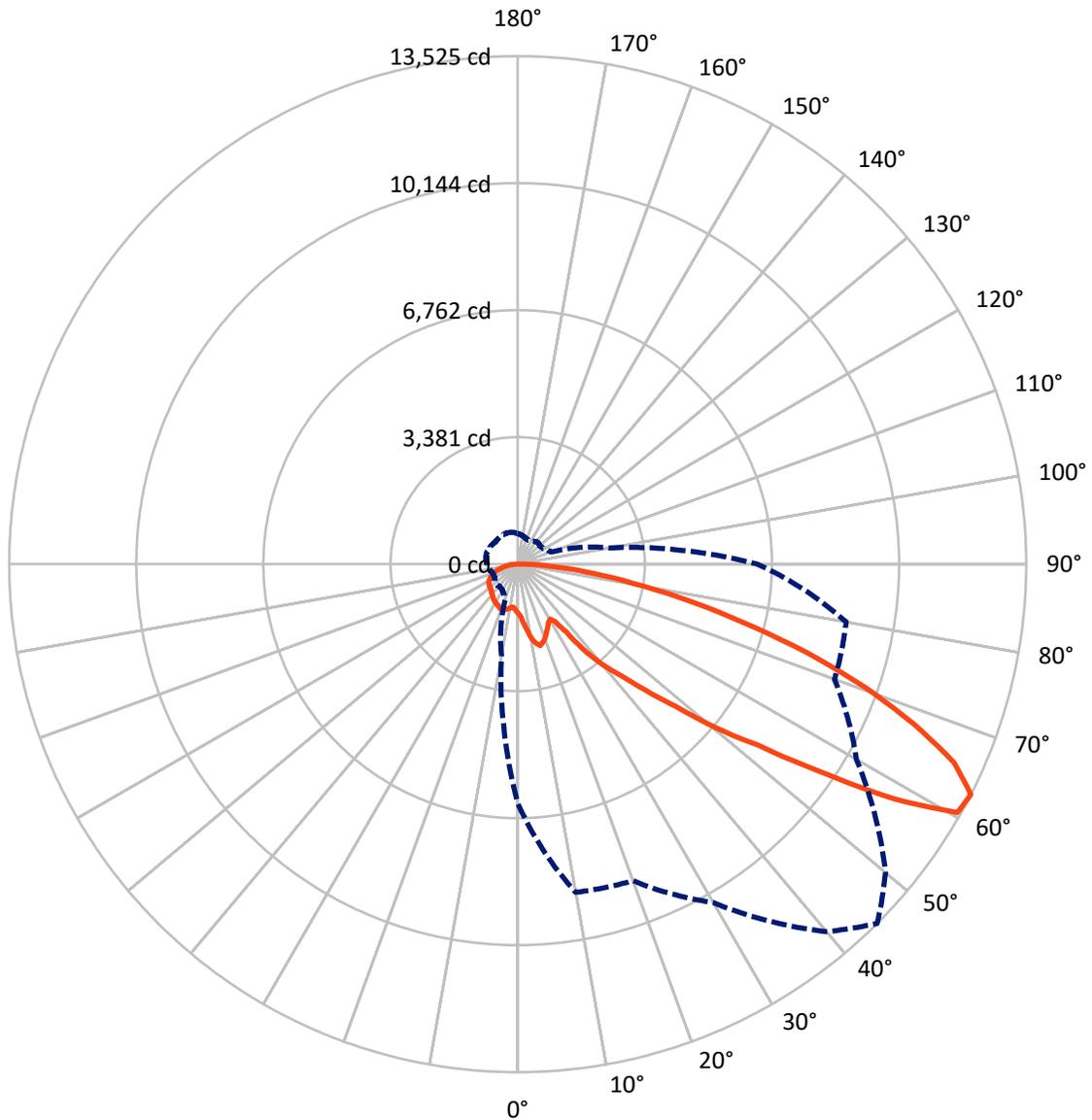
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

REPORT NUMBER: P1209101
CATALOG NUMBER: UPW-SA2-090-750-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2807.0	0.0	2807.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	8647.0	0.0	8647.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	11454.0	0.0	11454.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	1.1
10°-20°	439.4	3.8
20°-30°	714.7	6.2
30°-40°	974.8	8.5
40°-50°	1476.0	12.9
50°-60°	2538.1	22.2
60°-70°	2976.6	26.0
70°-80°	1775.3	15.5
80°-90°	428.8	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°	11454.0	100.0
0°-180°	11454.0	100.0



REPORT NUMBER: P1209101

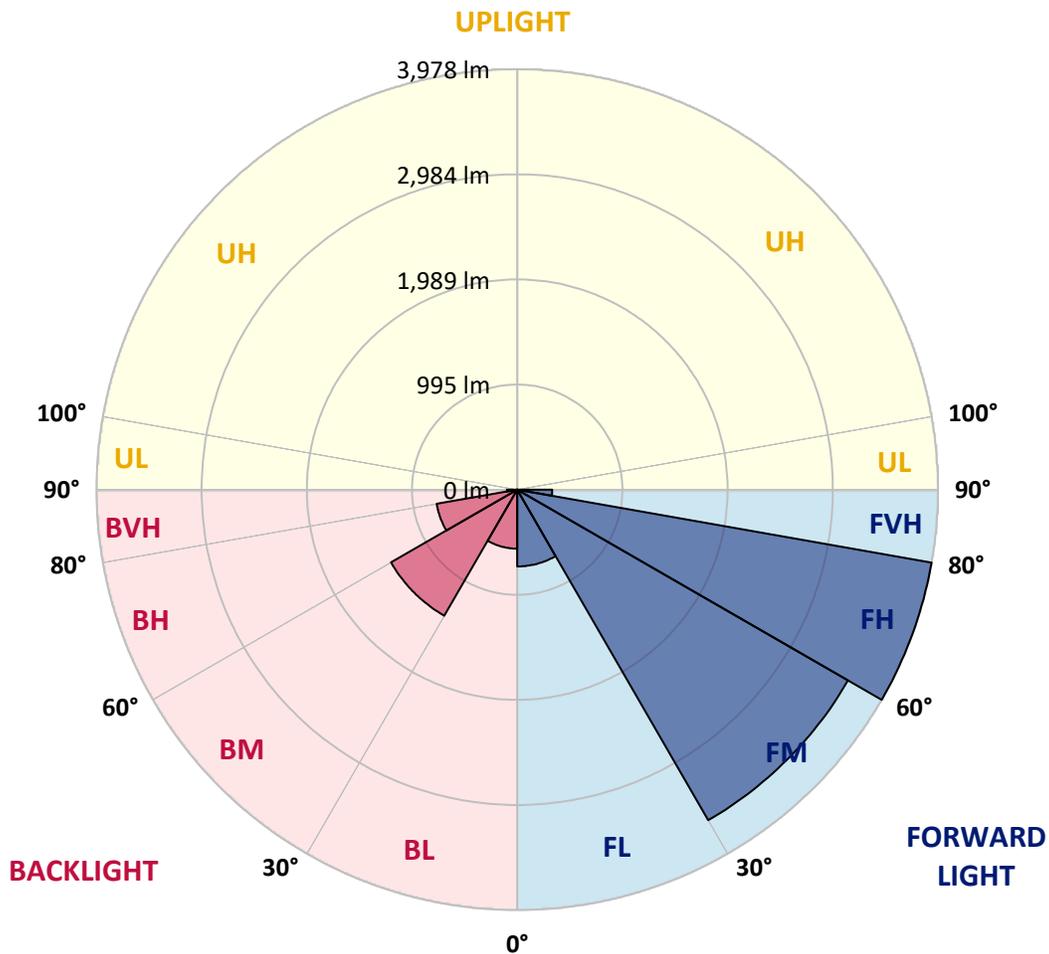
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	726.0	6.3			
FM (30°-60°)	3611.3	31.5			
FH (60°-80°)	3978.4	34.7			G2/5000
FVH (80°-90°)	331.4	2.9			G3/500
BL (0°-30°)	558.4	4.9	B2/1000		
BM (30°-60°)	1377.7	12.0	B2/2500		
BH (60°-80°)	773.5	6.8	B2/1000		G2/1000
BVH (80°-90°)	97.5	0.9			G1/100
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





REPORT NUMBER: P1209101

CATALOG NUMBER: UPW-SA2-090-750-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1359.4	1365.1	1370.9	1373.3	1375.8	1378.1	1380.5	1382.3	1384.2	1379.9	1384.2
5°	1454.1	1472.0	1490.0	1505.4	1520.9	1532.7	1544.4	1550.1	1556.0	1565.5	1556.0
7.5°	1582.8	1607.2	1631.8	1665.4	1699.2	1722.1	1744.9	1754.9	1764.9	1767.7	1764.9
10°	1676.2	1738.9	1801.6	1838.9	1876.3	1903.5	1930.9	1954.3	1977.9	2004.5	1977.9
12.5°	1789.5	1860.9	1932.2	1986.0	2039.7	2074.3	2108.8	2132.0	2155.3	2163.2	2155.3
15°	1901.5	1979.4	2057.3	2107.7	2158.1	2185.0	2211.9	2223.4	2234.9	2249.0	2234.9
17.5°	2025.0	2083.4	2141.7	2175.0	2208.3	2209.5	2210.6	2196.1	2181.7	2178.6	2181.7
20°	2112.7	2160.9	2209.3	2210.0	2210.6	2181.8	2153.0	2127.9	2103.0	2091.6	2103.0
22.5°	2177.3	2210.5	2243.6	2209.5	2175.4	2111.4	2047.4	2011.1	1974.7	1964.8	1974.7
25°	2265.0	2270.1	2275.2	2205.7	2136.4	2047.0	1957.8	1911.2	1864.5	1853.5	1864.5
27.5°	2321.3	2305.2	2288.9	2183.6	2078.1	1973.3	1868.6	1815.5	1762.3	1747.2	1762.3
30°	2403.3	2344.8	2286.1	2150.3	2014.5	1909.0	1803.6	1759.1	1714.7	1701.2	1714.7
32.5°	2485.8	2388.3	2290.6	2145.1	1999.4	1925.9	1852.5	1840.4	1828.3	1818.9	1828.3
35°	2553.7	2444.1	2334.5	2224.8	2115.2	2126.4	2137.6	2177.1	2216.6	2215.7	2216.6
37.5°	2672.7	2560.6	2448.4	2430.3	2412.2	2553.7	2695.1	2808.6	2922.0	2981.2	2922.0
40°	2838.5	2759.7	2681.0	2746.7	2812.2	3008.8	3205.4	3339.8	3474.3	3572.6	3474.3
42.5°	3069.5	3024.7	2979.9	3062.0	3144.0	3359.8	3575.4	3758.7	3941.7	4079.4	3941.7
45°	3465.7	3419.5	3373.1	3412.3	3451.2	3721.3	3991.4	4278.4	4565.3	4807.8	4565.3
47.5°	4128.7	4021.2	3913.7	3880.9	3848.0	4211.9	4575.8	4995.2	5414.8	5664.1	5414.8
50°	5005.5	4837.5	4669.5	4516.2	4363.0	4876.4	5389.9	6000.8	6611.6	6868.6	6611.6
52.5°	5812.0	5657.7	5503.5	5234.0	4964.6	5572.2	6180.0	6973.2	7766.4	8013.0	7766.4
55°	6511.5	6576.0	6640.5	6276.0	5911.4	6585.6	7259.7	8275.9	9292.0	9726.9	9292.0
57.5°	7015.8	7589.5	8163.4	7773.7	7384.2	8013.5	8642.7	9850.6	11058.5	11786.5	11058.5
60°	6929.4	8079.4	9229.3	9056.3	8883.4	9421.0	9958.6	11269.1	12579.7	13430.0	12579.7
62.5°	6366.2	7617.7	8869.3	8918.1	8966.8	9684.8	10402.8	11587.6	12772.4	13524.8	12772.4
65°	5666.0	6844.1	8021.9	8094.3	8166.6	8996.7	9826.8	10988.9	12151.0	12758.0	12151.0
67.5°	4860.9	6085.9	7310.9	7354.5	7398.3	8157.0	8915.6	9961.7	11007.7	11356.4	11007.7
70°	4168.4	5335.3	6502.3	6597.9	6693.5	7356.1	8018.3	8792.9	9567.4	9766.6	9567.4
72.5°	3342.2	4515.8	5689.5	5835.6	5981.8	6467.2	6952.5	7494.0	8035.5	8016.8	8035.5
75°	2458.9	3558.7	4658.7	4860.9	5063.1	5360.8	5658.4	5944.3	6230.4	6149.3	6230.4
77.5°	1705.0	2594.5	3484.0	3698.1	3912.4	4122.3	4332.3	4533.9	4735.5	4608.1	4735.5
80°	940.2	1573.9	2207.8	2448.8	2690.0	2909.4	3128.6	3232.7	3336.6	3122.0	3336.6
82.5°	465.3	819.2	1173.1	1413.0	1652.8	1875.1	2097.3	2162.5	2227.5	2022.4	2227.5
85°	183.0	360.7	538.3	717.3	896.3	1071.4	1246.5	1253.1	1259.9	1112.3	1259.9
87.5°	65.9	138.5	211.2	303.4	395.5	489.6	583.7	580.4	576.9	476.2	576.9
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: P1209101

CATALOG NUMBER: UPW-SA2-090-750-U-SLL

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1382.3	1380.5	1378.1	1375.8	1373.3	1370.9	1365.1	1359.4	1355.8	1354.5	1349.8
5°	1550.1	1544.4	1532.7	1520.9	1505.4	1490.0	1472.0	1454.1	1443.5	1428.8	1407.9
7.5°	1754.9	1744.9	1722.1	1699.2	1665.4	1631.8	1607.2	1582.8	1534.6	1494.0	1460.6
10°	1954.3	1930.9	1903.5	1876.3	1838.9	1801.6	1738.9	1676.2	1636.4	1589.2	1532.3
12.5°	2132.0	2108.8	2074.3	2039.7	1986.0	1932.2	1860.9	1789.5	1728.2	1661.5	1592.9
15°	2223.4	2211.9	2185.0	2158.1	2107.7	2057.3	1979.4	1901.5	1826.9	1742.8	1652.4
17.5°	2196.1	2210.6	2209.5	2208.3	2175.0	2141.7	2083.4	2025.0	1915.8	1808.0	1701.0
20°	2127.9	2153.0	2181.8	2210.6	2210.0	2209.3	2160.9	2112.7	2002.5	1885.7	1755.9
22.5°	2011.1	2047.4	2111.4	2175.4	2209.5	2243.6	2210.5	2177.3	2062.3	1936.7	1786.3
25°	1911.2	1957.8	2047.0	2136.4	2205.7	2275.2	2270.1	2265.0	2127.3	1980.5	1805.5
27.5°	1815.5	1868.6	1973.3	2078.1	2183.6	2288.9	2305.2	2321.3	2197.3	2055.7	1858.7
30°	1759.1	1803.6	1909.0	2014.5	2150.3	2286.1	2344.8	2403.3	2275.6	2124.8	1904.0
32.5°	1840.4	1852.5	1925.9	1999.4	2145.1	2290.6	2388.3	2485.8	2348.2	2184.0	1933.5
35°	2177.1	2137.6	2126.4	2115.2	2224.8	2334.5	2444.1	2553.7	2418.5	2245.2	1960.5
37.5°	2808.6	2695.1	2553.7	2412.2	2430.3	2448.4	2560.6	2672.7	2511.2	2305.3	1981.5
40°	3339.8	3205.4	3008.8	2812.2	2746.7	2681.0	2759.7	2838.5	2660.8	2413.1	2029.1
42.5°	3758.7	3575.4	3359.8	3144.0	3062.0	2979.9	3024.7	3069.5	2824.6	2512.9	2074.4
45°	4278.4	3991.4	3721.3	3451.2	3412.3	3373.1	3419.5	3465.7	3089.5	2651.6	2136.5
47.5°	4995.2	4575.8	4211.9	3848.0	3880.9	3913.7	4021.2	4128.7	3533.0	2874.7	2235.6
50°	6000.8	5389.9	4876.4	4363.0	4516.2	4669.5	4837.5	5005.5	4167.8	3231.8	2410.5
52.5°	6973.2	6180.0	5572.2	4964.6	5234.0	5503.5	5657.7	5812.0	4721.4	3520.7	2544.7
55°	8275.9	7259.7	6585.6	5911.4	6276.0	6640.5	6576.0	6511.5	5093.2	3638.9	2579.8
57.5°	9850.6	8642.7	8013.5	7384.2	7773.7	8163.4	7589.5	7015.8	5147.4	3421.3	2415.5
60°	11269.1	9958.6	9421.0	8883.4	9056.3	9229.3	8079.4	6929.4	4827.2	2943.0	2058.0
62.5°	11587.6	10402.8	9684.8	8966.8	8918.1	8869.3	7617.7	6366.2	4297.6	2472.0	1710.2
65°	10988.9	9826.8	8996.7	8166.6	8094.3	8021.9	6844.1	5666.0	3709.5	2029.1	1391.4
67.5°	9961.7	8915.6	8157.0	7398.3	7354.5	7310.9	6085.9	4860.9	3090.9	1618.2	1094.7
70°	8792.9	8018.3	7356.1	6693.5	6597.9	6502.3	5335.3	4168.4	2532.8	1244.4	850.5
72.5°	7494.0	6952.5	6467.2	5981.8	5835.6	5689.5	4515.8	3342.2	1954.3	911.4	641.5
75°	5944.3	5658.4	5360.8	5063.1	4860.9	4658.7	3558.7	2458.9	1406.5	642.6	474.4
77.5°	4533.9	4332.3	4122.3	3912.4	3698.1	3484.0	2594.5	1705.0	968.7	448.3	349.4
80°	3232.7	3128.6	2909.4	2690.0	2448.8	2207.8	1573.9	940.2	557.6	289.3	241.3
82.5°	2162.5	2097.3	1875.1	1652.8	1413.0	1173.1	819.2	465.3	297.4	182.0	162.4
85°	1253.1	1246.5	1071.4	896.3	717.3	538.3	360.7	183.0	134.4	102.1	96.8
87.5°	580.4	583.7	489.6	395.5	303.4	211.2	138.5	65.9	51.2	42.5	40.7
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: P1209101

CATALOG NUMBER: UPW-SA2-090-750-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1345.1	1336.5	1328.0	1322.0	1315.9	1308.8	1297.7	1292.1	1286.4	1281.1	1275.5
5°	1386.9	1367.2	1347.6	1331.1	1314.6	1299.9	1286.2	1270.8	1255.5	1242.1	1228.8
7.5°	1427.2	1395.5	1363.9	1339.5	1315.2	1292.2	1269.5	1251.5	1233.3	1218.6	1203.9
10°	1475.6	1431.3	1387.3	1360.2	1333.1	1312.0	1276.2	1257.1	1238.0	1223.7	1209.4
12.5°	1524.3	1468.4	1412.9	1373.6	1334.4	1305.0	1290.0	1281.2	1272.3	1262.0	1251.6
15°	1561.9	1491.2	1420.6	1375.5	1330.6	1299.9	1291.3	1294.2	1297.3	1300.6	1304.1
17.5°	1593.9	1502.0	1410.0	1357.1	1304.3	1274.3	1288.2	1298.5	1308.4	1323.8	1339.2
20°	1625.9	1510.2	1394.2	1330.5	1266.6	1237.1	1243.4	1267.2	1290.9	1319.8	1348.9
22.5°	1635.9	1498.7	1361.3	1289.1	1217.1	1187.9	1213.1	1242.3	1271.3	1301.7	1331.9
25°	1630.5	1474.1	1317.8	1244.2	1170.6	1146.3	1171.9	1200.5	1229.1	1258.3	1287.5
27.5°	1661.7	1480.2	1298.6	1217.1	1135.4	1109.1	1133.8	1157.9	1182.1	1207.7	1233.3
30°	1683.2	1483.7	1284.1	1198.4	1112.6	1084.2	1092.2	1108.9	1125.4	1147.9	1170.2
32.5°	1683.0	1466.7	1250.3	1169.8	1089.3	1063.7	1071.6	1078.6	1085.5	1101.5	1117.5
35°	1675.8	1442.5	1209.0	1135.3	1061.4	1041.9	1039.5	1039.1	1038.7	1045.9	1053.2
37.5°	1657.6	1406.5	1155.2	1084.8	1014.4	1000.3	995.0	990.5	985.9	990.6	995.2
40°	1645.1	1371.7	1098.3	1030.3	962.3	957.5	953.6	947.2	940.8	941.3	941.8
42.5°	1635.9	1342.7	1049.6	984.5	919.3	910.1	899.9	896.8	893.7	892.1	890.3
45°	1621.5	1319.6	1017.6	952.1	886.4	859.5	859.2	852.2	845.5	847.9	850.2
47.5°	1596.5	1295.5	994.6	935.2	875.8	833.3	817.4	813.8	810.3	814.1	817.9
50°	1589.5	1286.7	984.1	929.6	875.3	812.8	782.9	780.7	778.5	789.5	800.3
52.5°	1568.7	1264.5	960.3	918.3	876.2	814.1	773.5	767.9	762.3	778.3	794.3
55°	1520.7	1218.8	917.1	901.7	886.0	849.3	778.3	760.0	741.8	761.4	780.8
57.5°	1410.0	1150.6	891.2	881.4	871.7	872.3	792.1	757.3	722.6	741.8	761.0
60°	1172.8	1022.7	872.7	843.4	814.1	842.3	794.9	754.4	714.0	725.1	736.3
62.5°	948.5	877.3	806.2	782.7	759.3	792.3	775.4	741.1	706.8	705.6	704.3
65°	753.7	739.6	725.5	720.4	715.3	723.9	733.5	711.1	688.7	678.7	668.8
67.5°	571.1	583.8	596.5	621.3	646.2	649.6	672.0	659.7	647.4	639.8	632.1
70°	456.3	473.6	490.9	527.6	564.5	582.4	602.5	604.2	605.7	600.1	594.2
72.5°	371.8	386.8	401.9	443.5	485.1	524.2	545.8	545.8	545.9	543.2	540.4
75°	306.2	317.3	328.3	366.9	405.5	455.0	477.6	479.8	481.9	480.1	478.5
77.5°	250.6	256.0	261.4	296.5	331.5	389.8	413.2	418.4	423.7	421.6	419.6
80°	193.3	197.0	200.7	229.9	259.2	311.0	338.3	346.0	353.5	353.0	352.3
82.5°	142.7	144.8	146.9	169.1	191.4	228.5	257.8	269.7	281.6	290.3	298.9
85°	91.5	92.7	93.7	107.7	121.6	144.6	174.3	196.4	218.2	234.2	250.2
87.5°	38.7	37.4	36.1	43.3	50.2	62.7	98.8	121.2	143.6	151.8	160.0
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: P1209101

CATALOG NUMBER: UPW-SA2-090-750-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1270.4	1265.3	1261.5	1257.6	1250.1	1242.7	1238.4	1234.2	1232.8	1231.4	1234.5
5°	1220.5	1212.2	1203.2	1194.3	1187.4	1180.4	1175.1	1169.7	1167.4	1165.1	1165.8
7.5°	1191.8	1179.9	1171.4	1162.9	1161.2	1159.7	1156.1	1152.7	1152.3	1152.0	1153.0
10°	1198.4	1187.6	1181.6	1175.7	1173.8	1171.9	1171.7	1171.5	1175.1	1178.6	1181.6
12.5°	1240.6	1229.9	1230.2	1230.7	1221.4	1212.2	1209.8	1207.3	1211.9	1216.3	1217.9
15°	1301.1	1298.2	1287.6	1276.8	1265.8	1254.7	1251.1	1247.4	1247.0	1246.7	1245.2
17.5°	1345.6	1352.0	1339.4	1326.7	1309.0	1291.3	1282.8	1274.7	1270.9	1267.2	1265.4
20°	1359.5	1370.3	1358.1	1345.9	1326.1	1306.3	1293.1	1280.0	1278.1	1276.2	1276.1
22.5°	1341.3	1350.7	1343.9	1337.0	1315.6	1294.1	1279.9	1265.7	1259.7	1253.8	1256.3
25°	1300.6	1313.9	1312.3	1310.7	1288.5	1266.2	1250.6	1235.0	1232.0	1229.1	1228.3
27.5°	1248.2	1263.1	1265.2	1267.2	1250.6	1233.9	1219.4	1204.8	1202.2	1199.6	1203.0
30°	1185.6	1200.9	1206.3	1211.5	1200.9	1190.4	1180.4	1170.6	1171.1	1171.5	1176.5
32.5°	1132.1	1146.6	1154.7	1162.9	1161.1	1159.4	1155.6	1151.8	1146.6	1141.5	1143.2
35°	1066.4	1079.7	1095.4	1111.1	1113.1	1115.2	1116.7	1118.1	1118.1	1118.1	1122.3
37.5°	1006.7	1018.3	1034.5	1050.9	1062.6	1074.2	1079.6	1084.8	1089.0	1093.1	1094.9
40°	952.2	962.6	977.9	993.3	1014.9	1036.6	1048.5	1060.5	1061.0	1061.4	1058.8
42.5°	899.1	907.8	931.1	954.3	978.5	1002.5	1013.1	1023.8	1028.4	1033.0	1034.1
45°	861.3	872.3	892.4	912.7	940.3	968.0	981.1	994.3	996.6	999.1	998.4
47.5°	829.2	840.3	865.0	889.6	916.6	943.6	957.6	971.5	973.6	975.6	977.3
50°	813.1	825.9	847.3	868.5	897.3	926.1	945.3	964.5	963.9	963.2	958.1
52.5°	804.0	813.8	833.8	853.8	885.3	916.8	935.4	953.9	955.5	957.2	954.3
55°	792.6	804.5	826.6	848.7	876.7	904.7	922.6	940.6	942.4	944.4	938.8
57.5°	781.5	801.9	824.3	846.7	875.4	904.0	919.3	934.7	931.2	927.8	923.4
60°	765.6	794.9	816.0	837.1	863.8	890.3	900.9	911.4	907.3	903.1	893.6
62.5°	735.8	767.0	791.2	815.4	839.6	863.8	871.2	878.7	874.8	870.7	860.1
65°	696.5	724.2	750.0	775.7	795.7	815.6	824.8	833.9	827.4	820.8	810.1
67.5°	659.1	686.1	705.9	725.8	745.6	765.5	773.0	780.6	773.3	766.1	752.0
70°	614.2	633.9	659.3	684.8	695.8	706.8	711.1	715.3	708.4	701.5	692.5
72.5°	560.0	579.6	596.4	613.1	623.5	633.9	638.7	643.6	635.9	628.2	616.2
75°	495.2	512.0	527.4	542.7	554.0	565.1	568.1	570.9	561.3	551.7	539.1
77.5°	429.8	440.1	446.6	453.1	465.9	478.7	481.2	483.6	476.3	469.1	457.5
80°	357.1	362.0	363.7	365.4	374.9	384.3	386.8	389.4	385.9	382.5	372.7
82.5°	302.1	305.3	291.2	277.1	284.7	292.1	298.0	303.6	302.1	300.6	292.5
85°	240.8	231.4	195.1	158.7	173.1	187.5	197.1	206.7	208.4	209.9	204.3
87.5°	147.3	134.7	108.0	81.3	92.9	104.7	114.2	123.9	117.6	111.4	98.6
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: P1209101

CATALOG NUMBER: UPW-SA2-090-750-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1237.5	1241.6	1237.5	1234.5	1231.4	1232.8	1234.2	1238.4	1242.7	1250.1	1257.6
5°	1166.4	1166.1	1166.4	1165.8	1165.1	1167.4	1169.7	1175.1	1180.4	1187.4	1194.3
7.5°	1153.9	1149.5	1153.9	1153.0	1152.0	1152.3	1152.7	1156.1	1159.7	1161.2	1162.9
10°	1184.7	1182.7	1184.7	1181.6	1178.6	1175.1	1171.5	1171.7	1171.9	1173.8	1175.7
12.5°	1219.6	1216.0	1219.6	1217.9	1216.3	1211.9	1207.3	1209.8	1212.2	1221.4	1230.7
15°	1243.5	1241.6	1243.5	1245.2	1246.7	1247.0	1247.4	1251.1	1254.7	1265.8	1276.8
17.5°	1263.6	1265.9	1263.6	1265.4	1267.2	1270.9	1274.7	1282.8	1291.3	1309.0	1326.7
20°	1275.9	1274.9	1275.9	1276.1	1276.2	1278.1	1280.0	1293.1	1306.3	1326.1	1345.9
22.5°	1258.9	1267.2	1258.9	1256.3	1253.8	1259.7	1265.7	1279.9	1294.1	1315.6	1337.0
25°	1227.5	1223.7	1227.5	1228.3	1229.1	1232.0	1235.0	1250.6	1266.2	1288.5	1310.7
27.5°	1206.0	1208.3	1206.0	1203.0	1199.6	1202.2	1204.8	1219.4	1233.9	1250.6	1267.2
30°	1181.5	1190.4	1181.5	1176.5	1171.5	1171.1	1170.6	1180.4	1190.4	1200.9	1211.5
32.5°	1145.0	1152.0	1145.0	1143.2	1141.5	1146.6	1151.8	1155.6	1159.4	1161.1	1162.9
35°	1126.4	1135.4	1126.4	1122.3	1118.1	1118.1	1118.1	1116.7	1115.2	1113.1	1111.1
37.5°	1096.7	1097.0	1096.7	1094.9	1093.1	1089.0	1084.8	1079.6	1074.2	1062.6	1050.9
40°	1056.3	1057.3	1056.3	1058.8	1061.4	1061.0	1060.5	1048.5	1036.6	1014.9	993.3
42.5°	1035.3	1038.1	1035.3	1034.1	1033.0	1028.4	1023.8	1013.1	1002.5	978.5	954.3
45°	997.8	994.6	997.8	998.4	999.1	996.6	994.3	981.1	968.0	940.3	912.7
47.5°	979.0	981.8	979.0	977.3	975.6	973.6	971.5	957.6	943.6	916.6	889.6
50°	953.0	951.1	953.0	958.1	963.2	963.9	964.5	945.3	926.1	897.3	868.5
52.5°	951.3	952.3	951.3	954.3	957.2	955.5	953.9	935.4	916.8	885.3	853.8
55°	933.1	929.3	933.1	938.8	944.4	942.4	940.6	922.6	904.7	876.7	848.7
57.5°	919.1	920.3	919.1	923.4	927.8	931.2	934.7	919.3	904.0	875.4	846.7
60°	884.2	876.8	884.2	893.6	903.1	907.3	911.4	900.9	890.3	863.8	837.1
62.5°	849.3	835.9	849.3	860.1	870.7	874.8	878.7	871.2	863.8	839.6	815.4
65°	799.4	792.3	799.4	810.1	820.8	827.4	833.9	824.8	815.6	795.7	775.7
67.5°	737.9	727.1	737.9	752.0	766.1	773.3	780.6	773.0	765.5	745.6	725.8
70°	683.5	675.9	683.5	692.5	701.5	708.4	715.3	711.1	706.8	695.8	684.8
72.5°	604.2	596.5	604.2	616.2	628.2	635.9	643.6	638.7	633.9	623.5	613.1
75°	526.7	515.9	526.7	539.1	551.7	561.3	570.9	568.1	565.1	554.0	542.7
77.5°	445.7	435.2	445.7	457.5	469.1	476.3	483.6	481.2	478.7	465.9	453.1
80°	363.3	349.4	363.3	372.7	382.5	385.9	389.4	386.8	384.3	374.9	365.4
82.5°	284.4	272.6	284.4	292.5	300.6	302.1	303.6	298.0	292.1	284.7	277.1
85°	198.7	189.4	198.7	204.3	209.9	208.4	206.7	197.1	187.5	173.1	158.7
87.5°	85.8	71.7	85.8	98.6	111.4	117.6	123.9	114.2	104.7	92.9	81.3
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: P1209101

CATALOG NUMBER: UPW-SA2-090-750-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1261.5	1265.3	1270.4	1275.5	1281.1	1286.4	1292.1	1297.7	1308.8	1315.9	1322.0
5°	1203.2	1212.2	1220.5	1228.8	1242.1	1255.5	1270.8	1286.2	1299.9	1314.6	1331.1
7.5°	1171.4	1179.9	1191.8	1203.9	1218.6	1233.3	1251.5	1269.5	1292.2	1315.2	1339.5
10°	1181.6	1187.6	1198.4	1209.4	1223.7	1238.0	1257.1	1276.2	1312.0	1333.1	1360.2
12.5°	1230.2	1229.9	1240.6	1251.6	1262.0	1272.3	1281.2	1290.0	1305.0	1334.4	1373.6
15°	1287.6	1298.2	1301.1	1304.1	1300.6	1297.3	1294.2	1291.3	1299.9	1330.6	1375.5
17.5°	1339.4	1352.0	1345.6	1339.2	1323.8	1308.4	1298.5	1288.2	1274.3	1304.3	1357.1
20°	1358.1	1370.3	1359.5	1348.9	1319.8	1290.9	1267.2	1243.4	1237.1	1266.6	1330.5
22.5°	1343.9	1350.7	1341.3	1331.9	1301.7	1271.3	1242.3	1213.1	1187.9	1217.1	1289.1
25°	1312.3	1313.9	1300.6	1287.5	1258.3	1229.1	1200.5	1171.9	1146.3	1170.6	1244.2
27.5°	1265.2	1263.1	1248.2	1233.3	1207.7	1182.1	1157.9	1133.8	1109.1	1135.4	1217.1
30°	1206.3	1200.9	1185.6	1170.2	1147.9	1125.4	1108.9	1092.2	1084.2	1112.6	1198.4
32.5°	1154.7	1146.6	1132.1	1117.5	1101.5	1085.5	1078.6	1071.6	1063.7	1089.3	1169.8
35°	1095.4	1079.7	1066.4	1053.2	1045.9	1038.7	1039.1	1039.5	1041.9	1061.4	1135.3
37.5°	1034.5	1018.3	1006.7	995.2	990.6	985.9	990.5	995.0	1000.3	1014.4	1084.8
40°	977.9	962.6	952.2	941.8	941.3	940.8	947.2	953.6	957.5	962.3	1030.3
42.5°	931.1	907.8	899.1	890.3	892.1	893.7	896.8	899.9	910.1	919.3	984.5
45°	892.4	872.3	861.3	850.2	847.9	845.5	852.2	859.2	859.5	886.4	952.1
47.5°	865.0	840.3	829.2	817.9	814.1	810.3	813.8	817.4	833.3	875.8	935.2
50°	847.3	825.9	813.1	800.3	789.5	778.5	780.7	782.9	812.8	875.3	929.6
52.5°	833.8	813.8	804.0	794.3	778.3	762.3	767.9	773.5	814.1	876.2	918.3
55°	826.6	804.5	792.6	780.8	761.4	741.8	760.0	778.3	849.3	886.0	901.7
57.5°	824.3	801.9	781.5	761.0	741.8	722.6	757.3	792.1	872.3	871.7	881.4
60°	816.0	794.9	765.6	736.3	725.1	714.0	754.4	794.9	842.3	814.1	843.4
62.5°	791.2	767.0	735.8	704.3	705.6	706.8	741.1	775.4	792.3	759.3	782.7
65°	750.0	724.2	696.5	668.8	678.7	688.7	711.1	733.5	723.9	715.3	720.4
67.5°	705.9	686.1	659.1	632.1	639.8	647.4	659.7	672.0	649.6	646.2	621.3
70°	659.3	633.9	614.2	594.2	600.1	605.7	604.2	602.5	582.4	564.5	527.6
72.5°	596.4	579.6	560.0	540.4	543.2	545.9	545.8	545.8	524.2	485.1	443.5
75°	527.4	512.0	495.2	478.5	480.1	481.9	479.8	477.6	455.0	405.5	366.9
77.5°	446.6	440.1	429.8	419.6	421.6	423.7	418.4	413.2	389.8	331.5	296.5
80°	363.7	362.0	357.1	352.3	353.0	353.5	346.0	338.3	311.0	259.2	229.9
82.5°	291.2	305.3	302.1	298.9	290.3	281.6	269.7	257.8	228.5	191.4	169.1
85°	195.1	231.4	240.8	250.2	234.2	218.2	196.4	174.3	144.6	121.6	107.7
87.5°	108.0	134.7	147.3	160.0	151.8	143.6	121.2	98.8	62.7	50.2	43.3
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: P1209101

CATALOG NUMBER: UPW-SA2-090-750-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1328.0	1336.5	1345.1	1349.8	1354.5	1355.8	1359.4
5°	1347.6	1367.2	1386.9	1407.9	1428.8	1443.5	1454.1
7.5°	1363.9	1395.5	1427.2	1460.6	1494.0	1534.6	1582.8
10°	1387.3	1431.3	1475.6	1532.3	1589.2	1636.4	1676.2
12.5°	1412.9	1468.4	1524.3	1592.9	1661.5	1728.2	1789.5
15°	1420.6	1491.2	1561.9	1652.4	1742.8	1826.9	1901.5
17.5°	1410.0	1502.0	1593.9	1701.0	1808.0	1915.8	2025.0
20°	1394.2	1510.2	1625.9	1755.9	1885.7	2002.5	2112.7
22.5°	1361.3	1498.7	1635.9	1786.3	1936.7	2062.3	2177.3
25°	1317.8	1474.1	1630.5	1805.5	1980.5	2127.3	2265.0
27.5°	1298.6	1480.2	1661.7	1858.7	2055.7	2197.3	2321.3
30°	1284.1	1483.7	1683.2	1904.0	2124.8	2275.6	2403.3
32.5°	1250.3	1466.7	1683.0	1933.5	2184.0	2348.2	2485.8
35°	1209.0	1442.5	1675.8	1960.5	2245.2	2418.5	2553.7
37.5°	1155.2	1406.5	1657.6	1981.5	2305.3	2511.2	2672.7
40°	1098.3	1371.7	1645.1	2029.1	2413.1	2660.8	2838.5
42.5°	1049.6	1342.7	1635.9	2074.4	2512.9	2824.6	3069.5
45°	1017.6	1319.6	1621.5	2136.5	2651.6	3089.5	3465.7
47.5°	994.6	1295.5	1596.5	2235.6	2874.7	3533.0	4128.7
50°	984.1	1286.7	1589.5	2410.5	3231.8	4167.8	5005.5
52.5°	960.3	1264.5	1568.7	2544.7	3520.7	4721.4	5812.0
55°	917.1	1218.8	1520.7	2579.8	3638.9	5093.2	6511.5
57.5°	891.2	1150.6	1410.0	2415.5	3421.3	5147.4	7015.8
60°	872.7	1022.7	1172.8	2058.0	2943.0	4827.2	6929.4
62.5°	806.2	877.3	948.5	1710.2	2472.0	4297.6	6366.2
65°	725.5	739.6	753.7	1391.4	2029.1	3709.5	5666.0
67.5°	596.5	583.8	571.1	1094.7	1618.2	3090.9	4860.9
70°	490.9	473.6	456.3	850.5	1244.4	2532.8	4168.4
72.5°	401.9	386.8	371.8	641.5	911.4	1954.3	3342.2
75°	328.3	317.3	306.2	474.4	642.6	1406.5	2458.9
77.5°	261.4	256.0	250.6	349.4	448.3	968.7	1705.0
80°	200.7	197.0	193.3	241.3	289.3	557.6	940.2
82.5°	146.9	144.8	142.7	162.4	182.0	297.4	465.3
85°	93.7	92.7	91.5	96.8	102.1	134.4	183.0
87.5°	36.1	37.4	38.7	40.7	42.5	51.2	65.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)