

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: P1209089

Luminaire Tested: UPW-SA2-090-740-U-T4W

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-740-U-T4W
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11843 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

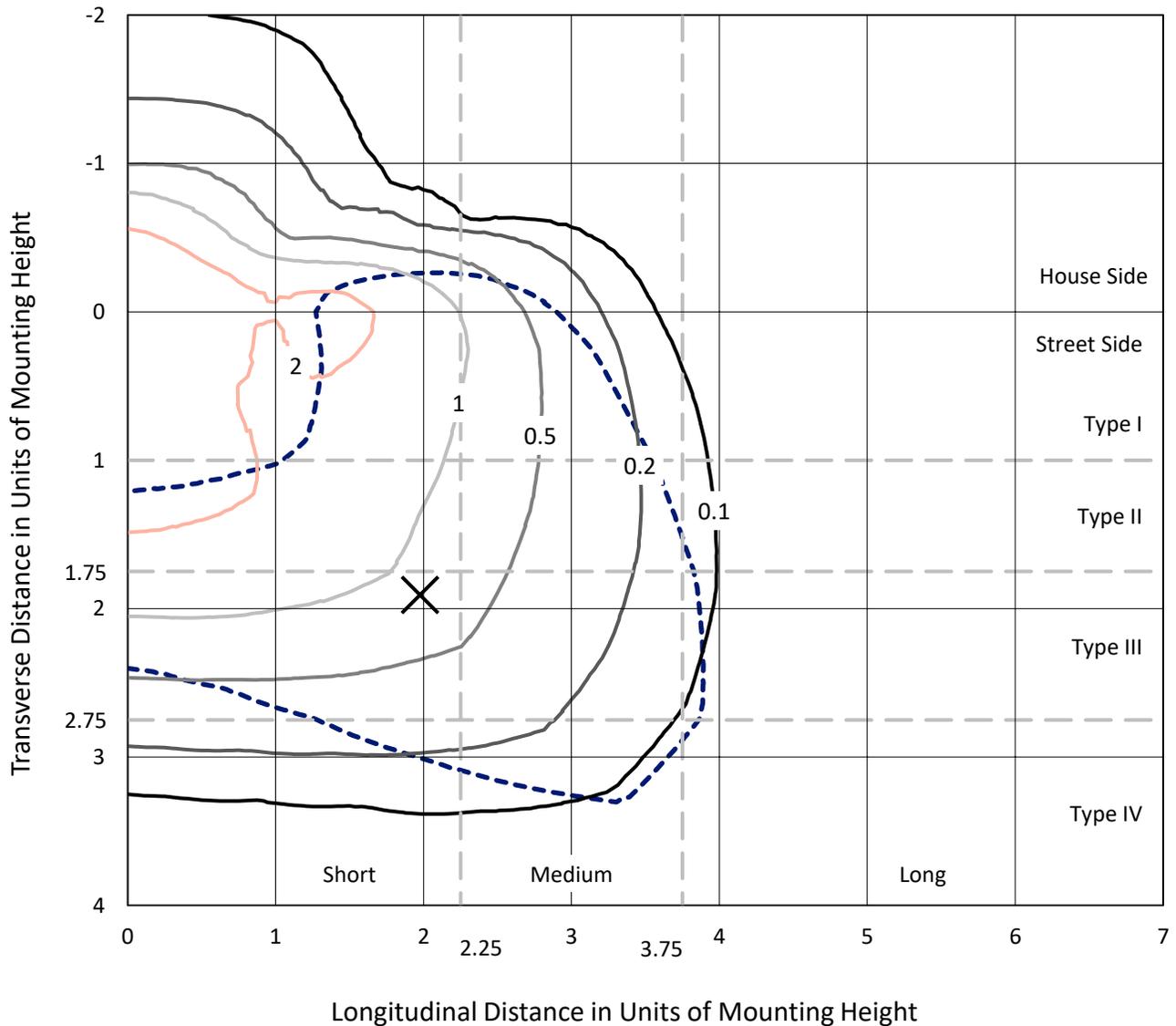
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

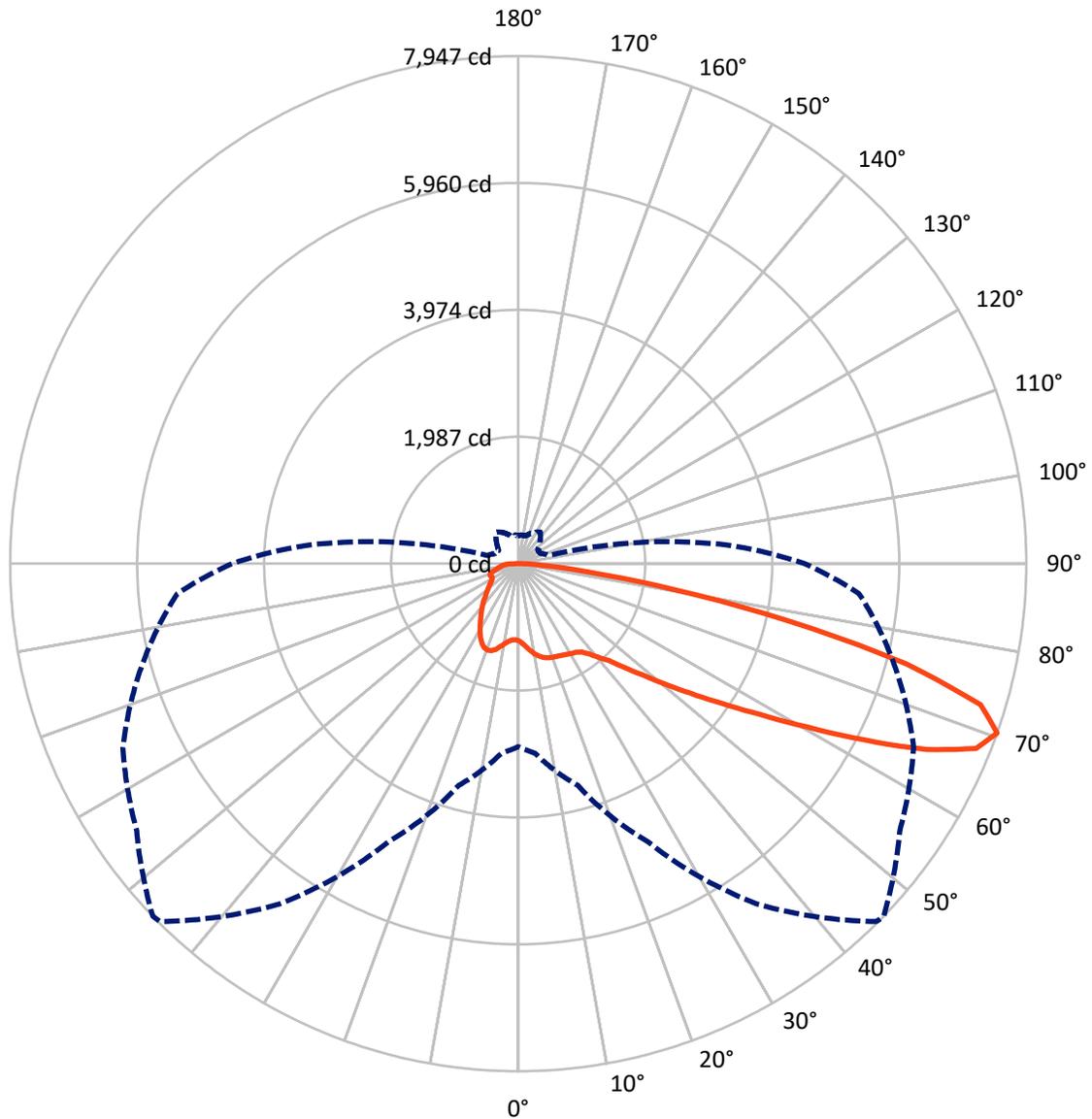
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2714.4	0.0	2714.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	9128.6	0.0	9128.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	11843.0	0.0	11843.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	1.0
10°-20°	409.8	3.5
20°-30°	683.3	5.8
30°-40°	969.6	8.2
40°-50°	1426.3	12.0
50°-60°	2415.4	20.4
60°-70°	3428.6	29.0
70°-80°	2082.9	17.6
80°-90°	304.0	2.6
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°	11843.0	100.0
0°-180°	11843.0	100.0



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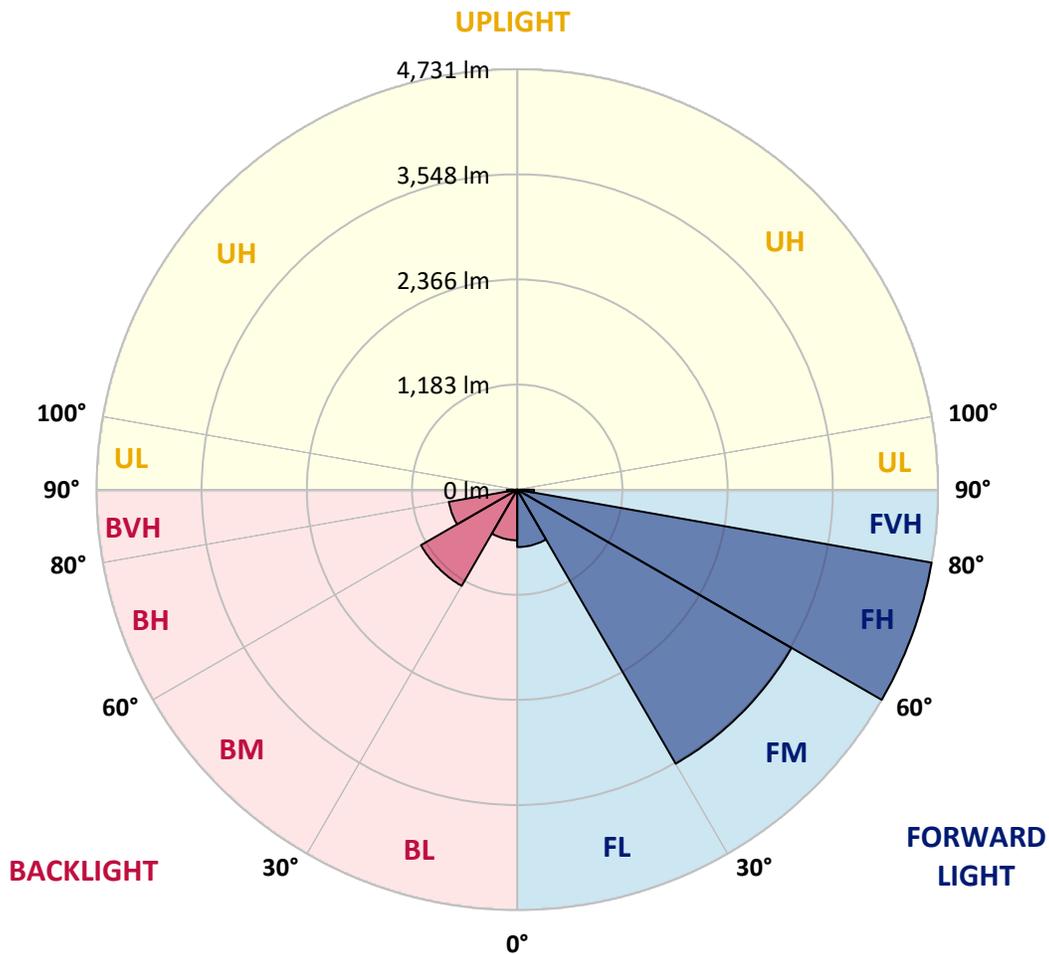
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	646.2	5.5			
FM (30°-60°)	3561.8	30.1			
FH (60°-80°)	4731.2	39.9			G2/5000
FVH (80°-90°)	189.4	1.6			G2/225
BL (0°-30°)	569.9	4.8	B2/1000		
BM (30°-60°)	1249.5	10.6	B2/2500		
BH (60°-80°)	780.4	6.6	B2/1000		G2/1000
BVH (80°-90°)	114.6	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1206.6	1206.6	1206.6	1206.6	1206.6	1206.6	1206.6	1206.6	1206.6	1206.6	1206.6
2.5°	1267.0	1267.8	1269.4	1265.3	1254.0	1250.7	1249.5	1237.8	1230.1	1218.7	1209.0
5°	1368.3	1369.1	1366.7	1355.3	1330.2	1311.5	1309.9	1283.2	1258.9	1232.9	1213.5
7.5°	1474.1	1475.3	1467.6	1446.1	1410.8	1378.4	1376.4	1339.9	1303.0	1263.7	1234.5
10°	1567.7	1562.8	1550.3	1520.3	1478.5	1438.8	1437.2	1399.1	1356.5	1309.1	1270.2
12.5°	1630.1	1626.1	1609.8	1573.4	1527.6	1491.1	1487.8	1452.6	1411.2	1359.4	1312.8
15°	1664.6	1667.4	1645.5	1604.2	1559.6	1528.8	1525.9	1500.8	1463.9	1411.7	1358.2
17.5°	1669.0	1671.4	1650.4	1609.4	1573.0	1551.9	1550.7	1534.1	1507.3	1457.0	1401.1
20°	1643.1	1644.7	1627.3	1593.6	1569.7	1563.2	1562.8	1555.5	1535.7	1491.1	1436.8
22.5°	1605.4	1606.6	1594.0	1569.7	1561.6	1571.7	1574.6	1571.7	1557.6	1515.8	1464.7
25°	1596.1	1595.2	1582.3	1557.6	1564.4	1585.9	1589.6	1590.8	1581.1	1544.6	1500.4
27.5°	1641.0	1638.2	1613.5	1573.8	1578.2	1604.2	1609.0	1620.8	1614.7	1582.7	1540.9
30°	1771.1	1766.3	1715.6	1635.4	1613.5	1626.9	1632.9	1651.6	1652.8	1626.1	1594.8
32.5°	1990.8	1984.7	1894.0	1750.5	1673.1	1650.0	1655.6	1683.6	1698.6	1677.9	1644.3
35°	2268.4	2261.6	2142.4	1946.2	1772.8	1694.1	1698.2	1720.5	1750.5	1721.3	1676.7
37.5°	2557.8	2541.2	2426.5	2176.4	1931.2	1788.6	1788.6	1791.4	1805.6	1744.8	1714.8
40°	2845.6	2829.0	2725.2	2447.2	2136.3	1937.3	1928.0	1865.2	1853.8	1801.5	1791.4
42.5°	3113.1	3108.2	3047.0	2753.2	2377.1	2083.6	2070.7	1964.1	1966.5	1934.1	1934.5
45°	3397.6	3397.6	3347.8	3062.0	2657.5	2318.7	2305.7	2148.9	2173.2	2158.2	2194.3
47.5°	3629.8	3637.1	3630.2	3383.8	2983.8	2617.4	2593.9	2405.0	2473.1	2524.6	2629.6
50°	3866.9	3878.3	3879.5	3736.8	3378.2	2972.4	2945.7	2745.1	2897.1	3044.6	3250.9
52.5°	4211.0	4236.6	4134.8	4089.0	3861.3	3394.0	3367.6	3182.4	3436.1	3643.2	3998.7
55°	4530.0	4507.7	4435.2	4463.5	4378.4	3873.8	3854.0	3691.4	4036.8	4305.9	4767.5
57.5°	4702.7	4701.0	4774.0	4895.6	4936.1	4465.6	4448.9	4290.9	4714.0	4916.3	5489.3
60°	4905.3	4908.1	5088.9	5364.9	5531.9	5202.4	5195.1	5075.1	5371.8	5486.1	6055.5
62.5°	4933.7	4984.8	5296.0	5771.0	6089.6	6063.2	6079.5	5781.6	5960.3	5940.8	6478.3
65°	4607.4	4674.7	5238.1	5893.8	6644.0	7004.8	7019.7	6492.1	6424.4	6329.5	6629.4
67.5°	3938.7	4038.4	4650.4	5626.7	6826.8	7700.6	7721.7	7042.9	6809.4	6461.2	6265.5
70°	2866.3	2976.9	3593.0	4805.6	6501.0	7923.2	7947.1	7286.4	6824.0	6086.3	5348.7
72.5°	1731.4	1818.2	2326.0	3537.8	5486.9	7517.9	7560.4	6977.6	6230.2	5155.4	3949.6
75°	760.3	817.1	1124.7	2038.6	3928.1	6220.1	6273.2	5972.5	5062.2	3746.6	2334.5
77.5°	323.8	340.0	461.2	885.6	2220.6	4250.4	4323.3	4363.8	3434.5	2038.6	986.5
80°	201.8	208.3	261.0	400.8	1039.2	2387.2	2465.8	2567.6	1705.5	749.4	344.5
82.5°	122.8	130.1	173.5	242.4	541.1	1082.1	1119.8	1191.6	661.9	323.8	178.3
85°	73.8	79.0	106.2	153.2	308.0	425.6	425.2	470.1	311.7	208.3	94.0
87.5°	35.3	39.3	56.7	79.4	155.2	159.7	149.6	169.4	189.3	136.6	47.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1206.6	1206.6	1206.6	1206.6	1206.6	1206.6	1206.6	1206.6	1206.6	1206.6	1206.6
2.5°	1205.8	1204.1	1198.9	1194.8	1194.0	1191.6	1189.5	1190.8	1192.4	1192.8	1192.8
5°	1205.4	1200.9	1194.0	1191.2	1194.8	1199.7	1205.8	1213.9	1218.7	1222.4	1224.8
7.5°	1224.8	1216.3	1208.6	1207.0	1214.3	1227.2	1241.0	1258.0	1269.8	1277.9	1279.5
10°	1257.2	1246.7	1239.0	1240.6	1253.6	1272.2	1291.7	1313.6	1331.4	1342.3	1343.2
12.5°	1294.5	1284.4	1277.1	1284.0	1305.5	1328.2	1348.4	1367.5	1383.7	1394.6	1394.6
15°	1337.5	1330.2	1321.7	1337.5	1366.7	1386.9	1395.4	1404.8	1413.7	1421.8	1420.2
17.5°	1378.8	1371.9	1367.5	1386.1	1416.5	1425.8	1420.2	1413.3	1413.3	1417.7	1418.5
20°	1414.5	1408.4	1411.2	1429.5	1445.3	1435.6	1414.5	1392.6	1383.7	1386.1	1388.5
22.5°	1445.7	1442.9	1451.4	1459.9	1448.5	1414.5	1375.6	1346.0	1335.0	1334.2	1335.0
25°	1482.2	1481.8	1492.3	1476.9	1426.6	1363.8	1311.5	1282.8	1276.7	1281.5	1289.7
27.5°	1527.6	1532.0	1537.3	1481.0	1382.1	1287.2	1234.1	1214.3	1220.4	1232.1	1239.8
30°	1585.5	1597.7	1586.3	1470.8	1318.0	1199.7	1149.0	1143.3	1160.0	1176.6	1184.7
32.5°	1641.9	1660.9	1633.3	1444.5	1235.3	1106.9	1067.6	1065.9	1086.2	1102.4	1113.8
35°	1687.3	1724.9	1668.6	1392.2	1139.7	1021.3	992.6	981.6	988.9	1008.0	1020.9
37.5°	1746.4	1809.2	1692.9	1312.4	1035.9	950.8	917.2	892.1	885.6	893.3	899.8
40°	1854.6	1937.7	1704.3	1200.9	934.6	880.3	846.3	809.4	783.8	765.2	765.6
42.5°	2031.3	2105.1	1697.0	1065.5	841.0	811.4	772.9	730.3	689.0	646.9	643.6
45°	2318.3	2354.0	1675.1	922.1	758.7	739.3	703.2	660.6	605.5	557.7	553.2
47.5°	2777.5	2698.5	1641.0	796.8	686.2	678.1	644.8	595.8	537.4	498.9	495.7
50°	3403.7	3195.8	1624.4	697.1	622.1	624.6	597.4	545.5	490.4	462.0	458.8
52.5°	4152.7	3774.9	1656.4	620.1	570.7	579.2	558.9	510.3	464.1	441.8	438.5
55°	4929.6	4374.8	1690.9	564.2	522.0	538.6	531.7	491.6	449.9	429.2	426.4
57.5°	5594.7	4822.6	1622.0	518.8	478.7	504.6	510.7	479.9	442.6	423.9	420.7
60°	6013.4	5003.0	1441.2	476.2	444.2	477.4	498.5	476.6	445.4	443.8	441.4
62.5°	6212.0	4987.2	1170.1	442.6	422.7	465.7	507.4	494.9	477.8	492.4	493.7
65°	6122.8	4748.9	871.4	420.3	407.3	470.1	534.2	529.3	487.2	501.8	503.8
67.5°	5536.0	4180.2	645.2	400.8	390.3	482.7	582.8	540.7	468.9	479.5	473.0
70°	4474.5	3314.1	497.7	379.0	372.9	481.1	604.7	533.8	449.1	451.5	434.1
72.5°	3085.5	2259.9	404.9	358.7	347.7	438.5	589.3	516.8	432.5	413.8	390.7
75°	1677.9	1213.1	344.1	337.6	303.6	385.0	560.9	504.6	417.5	392.7	379.8
77.5°	660.2	503.4	298.7	308.8	265.5	340.0	529.3	481.5	396.8	364.4	357.9
80°	269.5	257.0	247.6	267.1	228.2	297.5	491.2	454.3	372.1	338.0	325.0
82.5°	152.8	159.7	192.5	210.8	185.2	274.0	473.0	432.5	342.5	302.8	287.4
85°	78.2	93.6	134.2	151.2	136.2	233.0	435.7	378.5	274.8	231.8	233.0
87.5°	37.7	52.3	84.7	94.8	88.4	168.6	325.5	274.4	214.0	169.4	164.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)