

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: P1209116

Luminaire Tested: UPW-SA2-090-750-U-T4W

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209116
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-SA2-090-750-U-T4W
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 5000K, 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: 11842 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

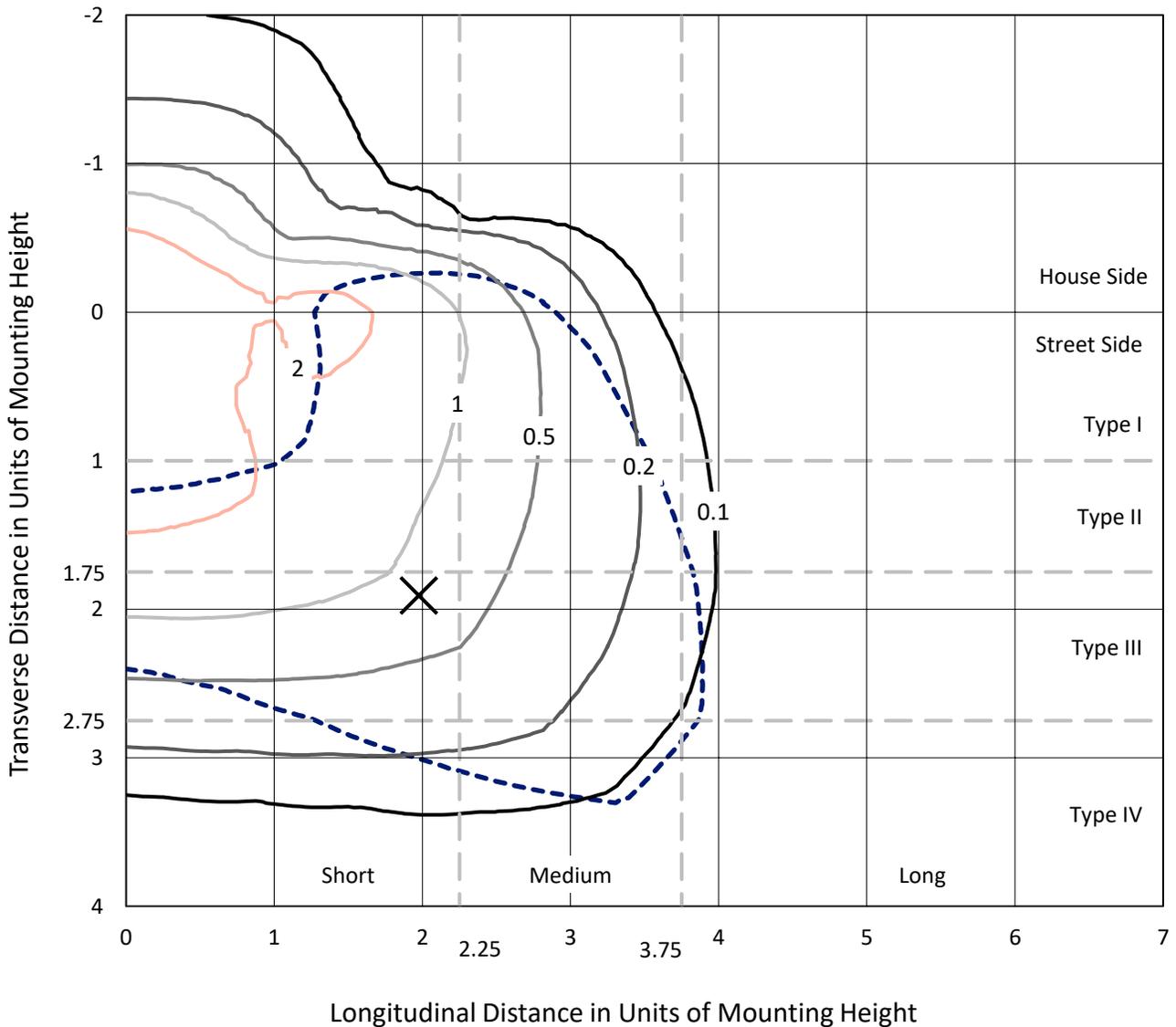
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

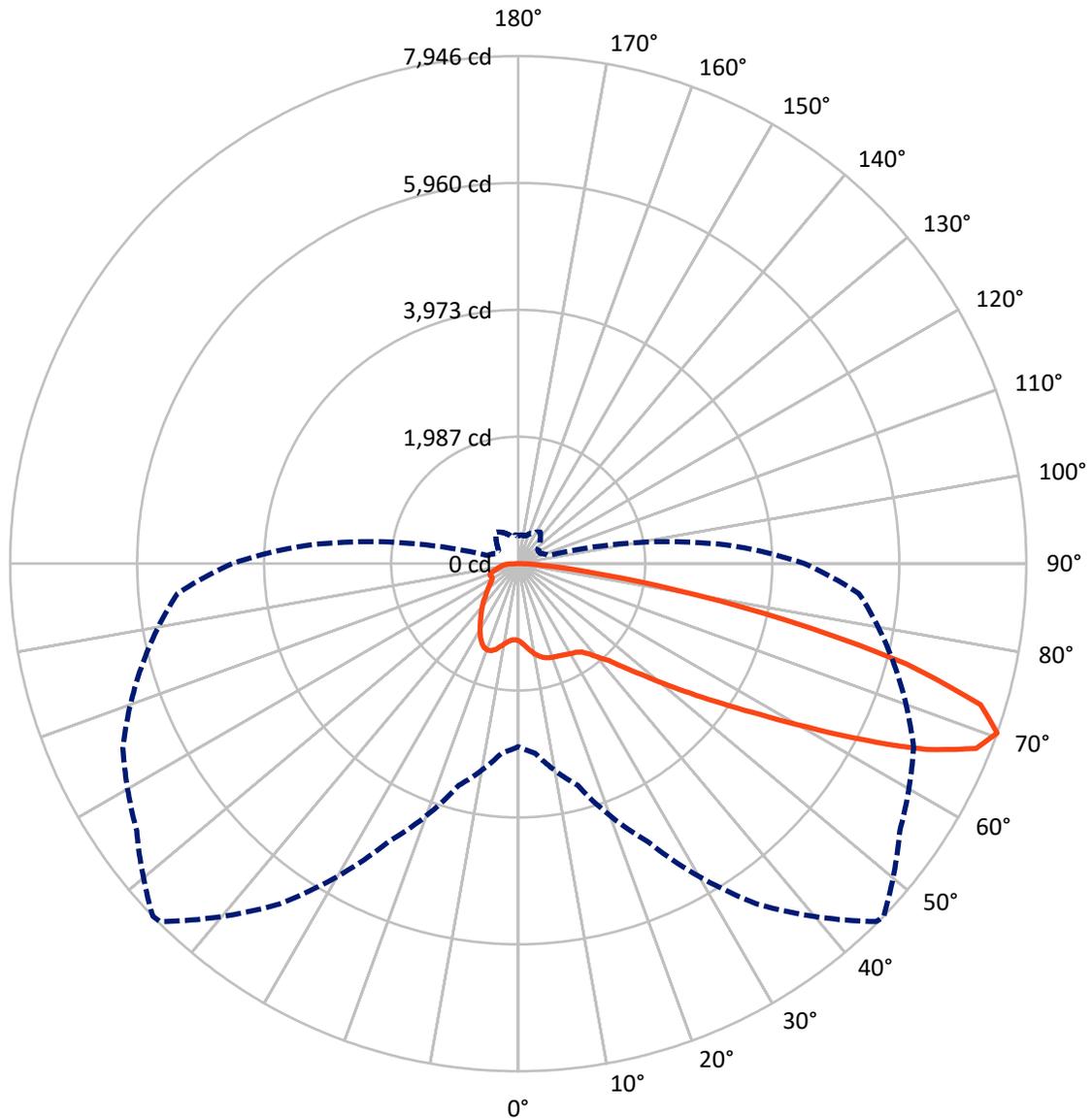
× Max cd
 - - - 1/2 Max cd



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	2714.2	0.0	2714.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	9127.8	0.0	9127.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	11842.0	0.0	11842.0
	% 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°	683.2	5.8
30°-40°	969.6	8.2
40°-50°	1426.2	12.0
50°-60°	2415.2	20.4
60°-70°	3428.4	29.0
70°-80°	2082.8	17.6
80°-90°	303.9	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°	11842.0	100.0
0°-180°	11842.0	100.0



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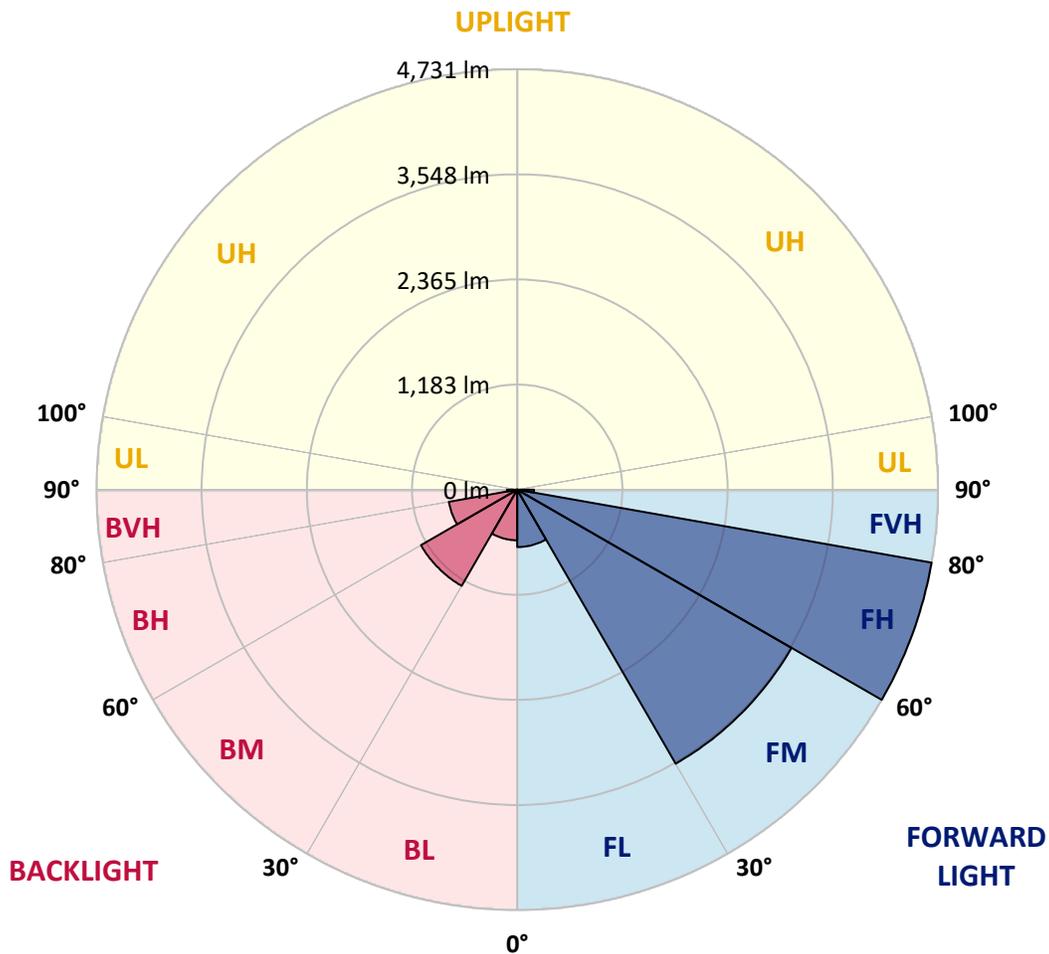
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	646.2	5.5			
FM	(30°-60°)	3561.5	30.1			
FH	(60°-80°)	4730.8	39.9			G2/5000
FVH	(80°-90°)	189.3	1.6			G2/225
BL	(0°-30°)	569.8	4.8	B2/1000		
BM	(30°-60°)	1249.4	10.6	B2/2500		
BH	(60°-80°)	780.3	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°	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5
2.5°	1266.9	1267.7	1269.3	1265.2	1253.9	1250.6	1249.4	1237.7	1230.0	1218.6	1208.9
5°	1368.2	1369.0	1366.5	1355.2	1330.1	1311.4	1309.8	1283.1	1258.7	1232.8	1213.4
7.5°	1473.9	1475.2	1467.5	1446.0	1410.7	1378.3	1376.3	1339.8	1302.9	1263.6	1234.4
10°	1567.6	1562.7	1550.1	1520.1	1478.4	1438.7	1437.1	1399.0	1356.4	1309.0	1270.1
12.5°	1630.0	1625.9	1609.7	1573.2	1527.4	1491.0	1487.7	1452.5	1411.1	1359.3	1312.6
15°	1664.4	1667.3	1645.4	1604.0	1559.5	1528.7	1525.8	1500.7	1463.8	1411.5	1358.0
17.5°	1668.9	1671.3	1650.2	1609.3	1572.8	1551.8	1550.5	1533.9	1507.2	1456.9	1401.0
20°	1642.9	1644.6	1627.1	1593.5	1569.6	1563.1	1562.7	1555.4	1535.5	1491.0	1436.7
22.5°	1605.2	1606.5	1593.9	1569.6	1561.5	1571.6	1574.4	1571.6	1557.4	1515.7	1464.6
25°	1595.9	1595.1	1582.1	1557.4	1564.3	1585.8	1589.4	1590.7	1580.9	1544.5	1500.3
27.5°	1640.9	1638.1	1613.4	1573.6	1578.1	1604.0	1608.9	1620.6	1614.6	1582.6	1540.8
30°	1771.0	1766.1	1715.5	1635.2	1613.4	1626.7	1632.8	1651.4	1652.7	1625.9	1594.7
32.5°	1990.7	1984.6	1893.8	1750.3	1672.9	1649.8	1655.5	1683.5	1698.5	1677.8	1644.2
35°	2268.3	2261.4	2142.2	1946.1	1772.6	1694.0	1698.1	1720.3	1750.3	1721.2	1676.6
37.5°	2557.6	2541.0	2426.3	2176.3	1931.1	1788.4	1788.4	1791.3	1805.4	1744.7	1714.7
40°	2845.4	2828.7	2725.0	2447.0	2136.1	1937.2	1927.8	1865.0	1853.7	1801.4	1791.3
42.5°	3112.8	3108.0	3046.8	2753.0	2376.9	2083.5	2070.5	1963.9	1966.3	1933.9	1934.3
45°	3397.3	3397.3	3347.5	3061.8	2657.3	2318.5	2305.5	2148.7	2173.0	2158.0	2194.1
47.5°	3629.5	3636.8	3629.9	3383.5	2983.5	2617.2	2593.7	2404.8	2472.9	2524.4	2629.3
50°	3866.6	3878.0	3879.2	3736.5	3377.9	2972.2	2945.5	2744.8	2896.8	3044.3	3250.6
52.5°	4210.7	4236.2	4134.5	4088.7	3860.9	3393.7	3367.3	3182.1	3435.8	3642.9	3998.3
55°	4529.6	4507.3	4434.8	4463.2	4378.1	3873.5	3853.6	3691.1	4036.4	4305.5	4767.1
57.5°	4702.3	4700.6	4773.6	4895.2	4935.7	4465.2	4448.6	4290.5	4713.6	4915.8	5488.9
60°	4904.9	4907.7	5088.5	5364.5	5531.4	5202.0	5194.7	5074.7	5371.4	5485.6	6055.0
62.5°	4933.3	4984.3	5295.6	5770.5	6089.1	6062.7	6078.9	5781.1	5959.8	5940.3	6477.7
65°	4607.0	4674.3	5237.6	5893.3	6643.5	7004.2	7019.2	6491.5	6423.8	6329.0	6628.9
67.5°	3938.3	4038.0	4650.0	5626.3	6826.3	7700.0	7721.1	7042.3	6808.8	6460.7	6265.0
70°	2866.0	2976.7	3592.7	4805.2	6500.4	7922.5	7946.4	7285.8	6823.4	6085.8	5348.3
72.5°	1731.3	1818.0	2325.8	3537.5	5486.5	7517.2	7559.8	6977.0	6229.7	5154.9	3949.3
75°	760.3	817.0	1124.6	2038.5	3927.8	6219.6	6272.7	5972.0	5061.7	3746.3	2334.3
77.5°	323.8	340.0	461.2	885.5	2220.4	4250.0	4322.9	4363.5	3434.2	2038.5	986.4
80°	201.8	208.3	261.0	400.8	1039.1	2387.0	2465.6	2567.3	1705.3	749.3	344.5
82.5°	122.8	130.1	173.5	242.3	541.0	1082.1	1119.7	1191.5	661.8	323.8	178.3
85°	73.8	79.0	106.2	153.2	308.0	425.5	425.1	470.1	311.6	208.3	94.0
87.5°	35.3	39.3	56.7	79.4	155.2	159.7	149.5	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°	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5
2.5°	1205.7	1204.0	1198.8	1194.7	1193.9	1191.5	1189.4	1190.7	1192.3	1192.7	1192.7
5°	1205.3	1200.8	1193.9	1191.1	1194.7	1199.6	1205.7	1213.8	1218.6	1222.3	1224.7
7.5°	1224.7	1216.2	1208.5	1206.9	1214.2	1227.1	1240.9	1257.9	1269.7	1277.8	1279.4
10°	1257.1	1246.6	1238.9	1240.5	1253.5	1272.1	1291.6	1313.5	1331.3	1342.2	1343.0
12.5°	1294.4	1284.3	1277.0	1283.9	1305.4	1328.0	1348.3	1367.4	1383.6	1394.5	1394.5
15°	1337.4	1330.1	1321.6	1337.4	1366.5	1386.8	1395.3	1404.6	1413.6	1421.7	1420.0
17.5°	1378.7	1371.8	1367.4	1386.0	1416.4	1425.7	1420.0	1413.2	1413.2	1417.6	1418.4
20°	1414.4	1408.3	1411.1	1429.4	1445.2	1435.4	1414.4	1392.5	1383.6	1386.0	1388.4
22.5°	1445.6	1442.7	1451.2	1459.8	1448.4	1414.4	1375.5	1345.9	1334.9	1334.1	1334.9
25°	1482.0	1481.6	1492.2	1476.8	1426.5	1363.7	1311.4	1282.7	1276.6	1281.4	1289.5
27.5°	1527.4	1531.9	1537.2	1480.8	1381.9	1287.1	1234.0	1214.2	1220.2	1232.0	1239.7
30°	1585.4	1597.5	1586.2	1470.7	1317.9	1199.6	1148.9	1143.2	1159.9	1176.5	1184.6
32.5°	1641.7	1660.8	1633.2	1444.4	1235.2	1106.8	1067.5	1065.8	1086.1	1102.3	1113.7
35°	1687.1	1724.8	1668.5	1392.1	1139.6	1021.3	992.5	981.5	988.8	1007.9	1020.9
37.5°	1746.3	1809.1	1692.8	1312.2	1035.9	950.7	917.1	892.0	885.5	893.2	899.7
40°	1854.5	1937.6	1704.1	1200.8	934.5	880.2	846.2	809.3	783.8	765.1	765.5
42.5°	2031.2	2104.9	1696.8	1065.4	840.9	811.3	772.8	730.3	688.9	646.8	643.6
45°	2318.1	2353.8	1675.0	922.0	758.7	739.2	703.1	660.6	605.5	557.6	553.2
47.5°	2777.3	2698.2	1640.9	796.7	686.1	678.0	644.8	595.7	537.4	498.9	495.6
50°	3403.4	3195.5	1624.3	697.1	622.1	624.5	597.4	545.5	490.4	462.0	458.8
52.5°	4152.3	3774.6	1656.3	620.1	570.6	579.1	558.9	510.2	464.0	441.7	438.5
55°	4929.2	4374.4	1690.8	564.1	522.0	538.6	531.7	491.6	449.8	429.2	426.3
57.5°	5594.3	4822.2	1621.9	518.7	478.6	504.6	510.6	479.8	442.5	423.9	420.7
60°	6012.9	5002.6	1441.1	476.2	444.2	477.4	498.5	476.6	445.4	443.8	441.3
62.5°	6211.5	4986.8	1170.0	442.5	422.7	465.6	507.4	494.8	477.8	492.4	493.6
65°	6122.3	4748.5	871.3	420.3	407.3	470.1	534.1	529.3	487.1	501.7	503.7
67.5°	5535.5	4179.9	645.2	400.8	390.3	482.7	582.8	540.6	468.9	479.4	472.9
70°	4474.1	3313.8	497.7	378.9	372.8	481.0	604.7	533.7	449.0	451.5	434.0
72.5°	3085.3	2259.7	404.9	358.7	347.7	438.5	589.3	516.7	432.4	413.8	390.7
75°	1677.8	1213.0	344.1	337.6	303.5	385.0	560.9	504.6	417.4	392.7	379.7
77.5°	660.2	503.3	298.7	308.8	265.4	340.0	529.3	481.5	396.8	364.3	357.8
80°	269.5	256.9	247.6	267.1	228.2	297.5	491.2	454.3	372.0	338.0	325.0
82.5°	152.8	159.7	192.5	210.7	185.2	274.0	472.9	432.4	342.4	302.7	287.3
85°	78.2	93.6	134.1	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	88.3	168.6	325.4	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)