

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: P1209035

Luminaire Tested: UPW-SA2-090-730-U-T4W

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-730-U-T4W
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 3000K, 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: 10785 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

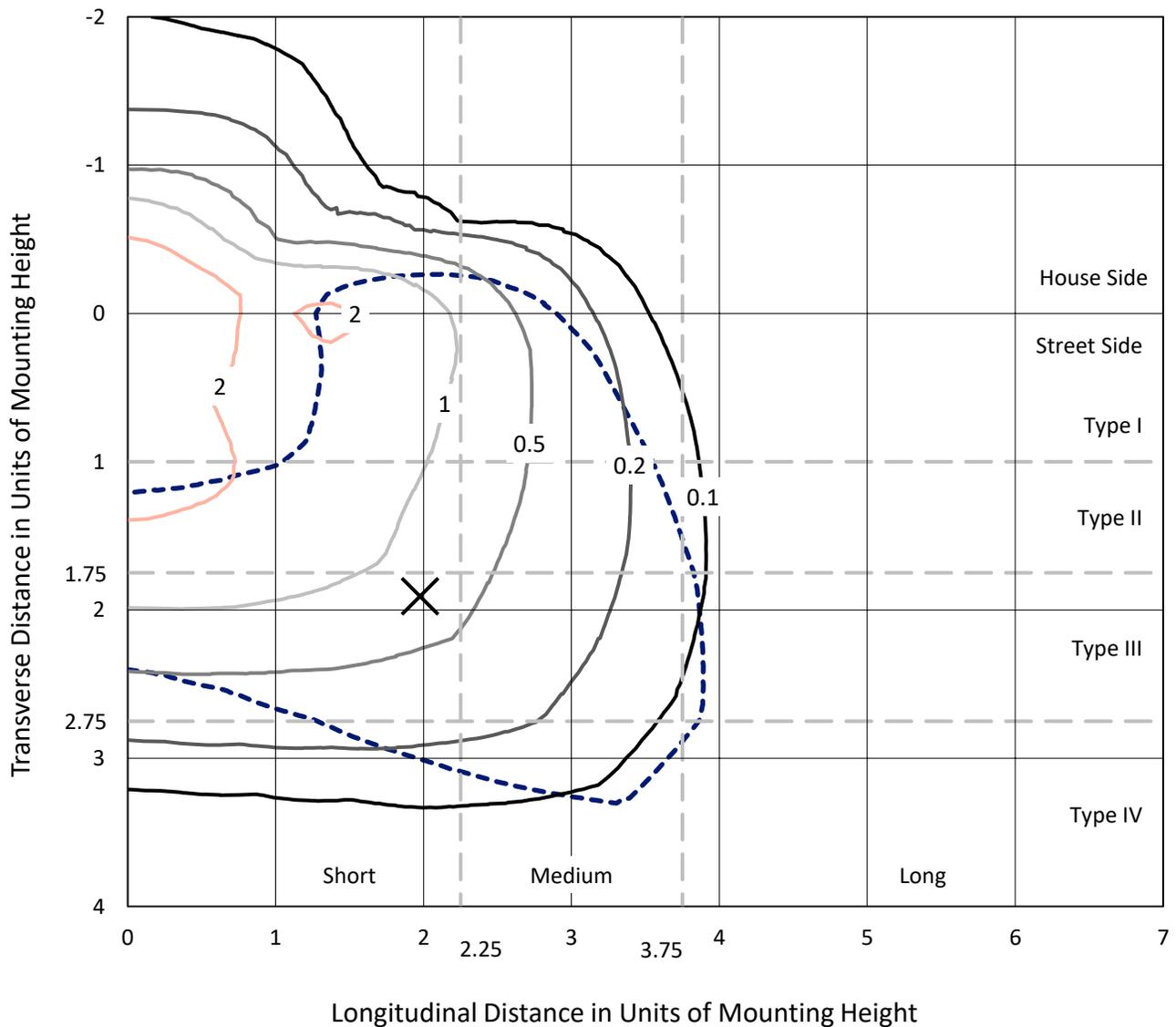
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P1209035
 CATALOG NUMBER: UPW-SA2-090-730-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

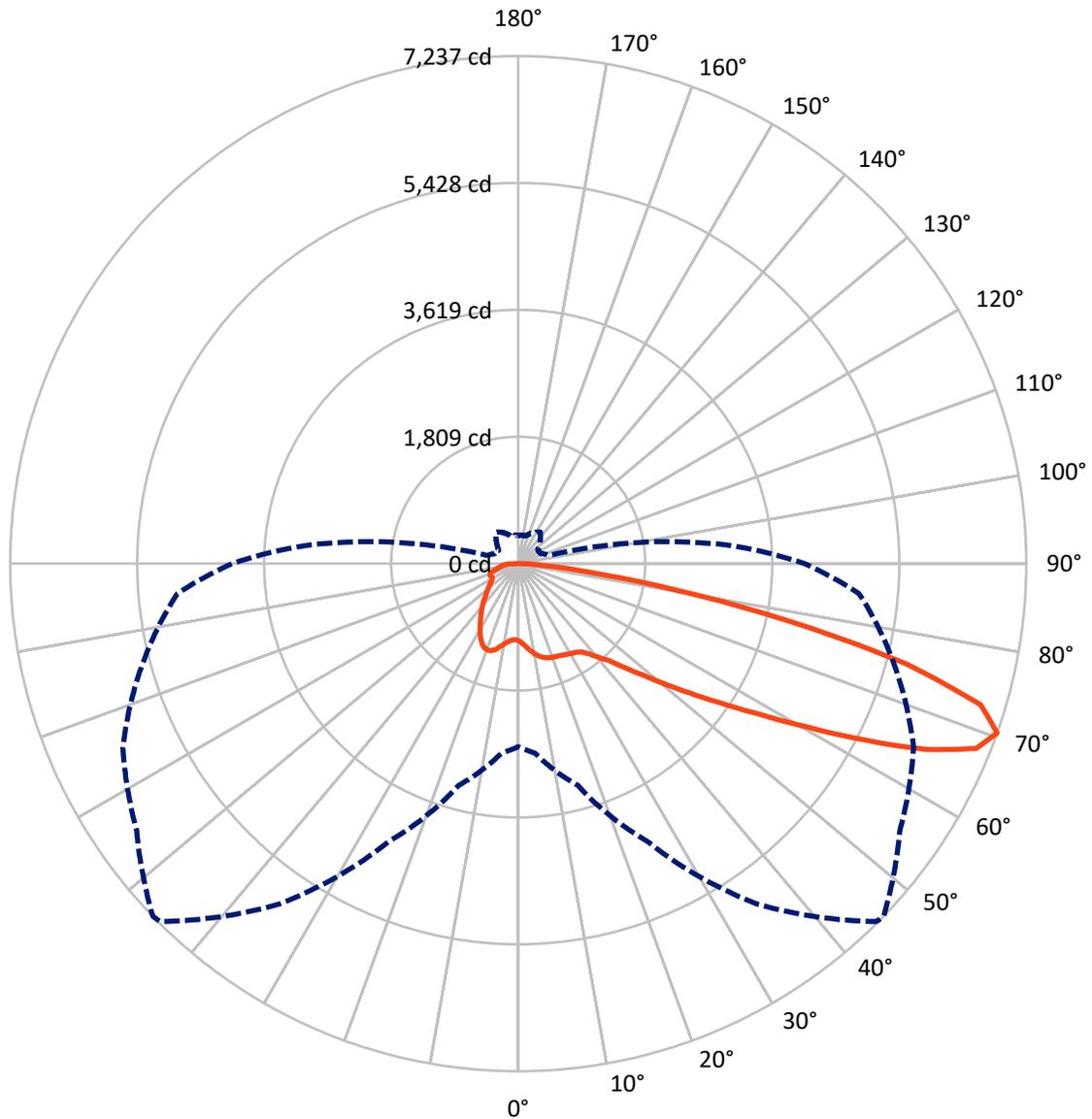
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P1209035
CATALOG NUMBER: UPW-SA2-090-730-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P1209035

CATALOG NUMBER: UPW-SA2-090-730-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2471.9	0.0	2471.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8313.1	0.0	8313.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	10785.0	0.0	10785.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	1.0
10°-20°	373.2	3.5
20°-30°	622.3	5.8
30°-40°	883.0	8.2
40°-50°	1298.9	12.0
50°-60°	2199.6	20.4
60°-70°	3122.3	29.0
70°-80°	1896.8	17.6
80°-90°	276.8	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°	10785.0	100.0
0°-180°	10785.0	100.0



REPORT NUMBER: P1209035

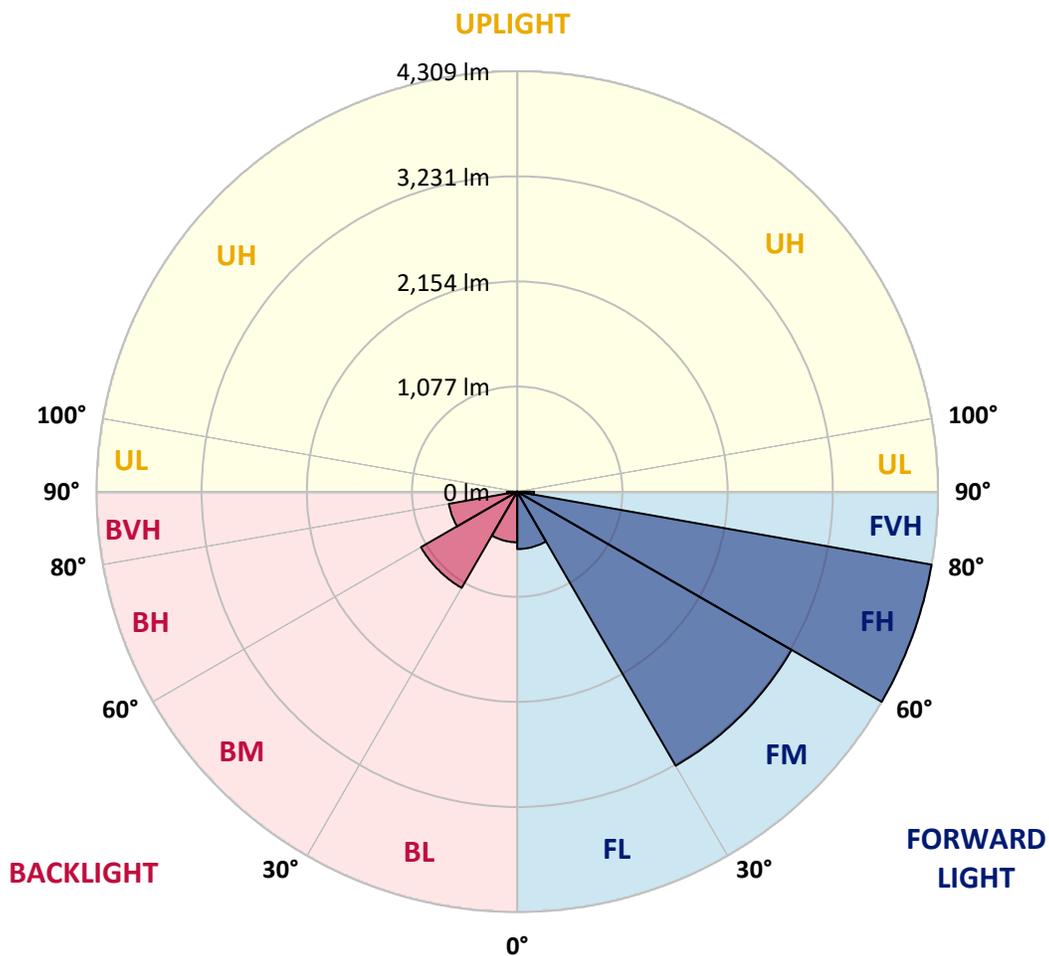
CATALOG NUMBER: UPW-SA2-090-730-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	588.5	5.5			
FM	(30°-60°)	3243.6	30.1			
FH	(60°-80°)	4308.5	39.9			G2/5000
FVH	(80°-90°)	172.4	1.6			G2/225
BL	(0°-30°)	519.0	4.8	B2/1000		
BM	(30°-60°)	1137.9	10.6	B2/2500		
BH	(60°-80°)	710.6	6.6	B2/1000		G2/1000
BVH	(80°-90°)	104.4	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





REPORT NUMBER: P1209035

CATALOG NUMBER: UPW-SA2-090-730-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8
2.5°	1153.8	1154.5	1156.0	1152.3	1142.0	1139.0	1137.9	1127.2	1120.2	1109.9	1101.0
5°	1246.0	1246.8	1244.6	1234.2	1211.4	1194.4	1192.9	1168.5	1146.4	1122.8	1105.1
7.5°	1342.4	1343.5	1336.5	1316.9	1284.8	1255.3	1253.4	1220.2	1186.6	1150.8	1124.2
10°	1427.6	1423.2	1411.8	1384.5	1346.4	1310.3	1308.8	1274.1	1235.3	1192.2	1156.7
12.5°	1484.5	1480.8	1466.0	1432.8	1391.1	1357.9	1354.9	1322.8	1285.2	1237.9	1195.5
15°	1515.9	1518.4	1498.5	1460.9	1420.3	1392.2	1389.6	1366.7	1333.2	1285.5	1236.8
17.5°	1519.9	1522.1	1502.9	1465.7	1432.4	1413.2	1412.1	1397.0	1372.6	1326.9	1275.9
20°	1496.3	1497.8	1481.9	1451.3	1429.5	1423.6	1423.2	1416.6	1398.5	1357.9	1308.4
22.5°	1462.0	1463.1	1451.6	1429.5	1422.1	1431.3	1433.9	1431.3	1418.4	1380.4	1333.9
25°	1453.5	1452.7	1440.9	1418.4	1424.7	1444.2	1447.6	1448.7	1439.8	1406.6	1366.4
27.5°	1494.4	1491.9	1469.3	1433.2	1437.2	1460.9	1465.3	1476.0	1470.5	1441.3	1403.3
30°	1612.9	1608.5	1562.4	1489.3	1469.3	1481.5	1487.1	1504.0	1505.1	1480.8	1452.4
32.5°	1813.0	1807.4	1724.8	1594.1	1523.6	1502.6	1507.7	1533.2	1546.9	1528.0	1497.4
35°	2065.8	2059.5	1951.0	1772.4	1614.4	1542.8	1546.5	1566.8	1594.1	1567.5	1526.9
37.5°	2329.3	2314.2	2209.7	1982.0	1758.7	1628.8	1628.8	1631.4	1644.3	1588.9	1561.6
40°	2591.4	2576.2	2481.8	2228.6	1945.5	1764.2	1755.8	1698.6	1688.2	1640.6	1631.4
42.5°	2835.0	2830.5	2774.8	2507.2	2164.7	1897.5	1885.7	1788.6	1790.8	1761.3	1761.7
45°	3094.1	3094.1	3048.7	2788.5	2420.1	2111.6	2099.8	1956.9	1979.1	1965.4	1998.3
47.5°	3305.6	3312.2	3305.9	3081.5	2717.2	2383.6	2362.2	2190.2	2252.2	2299.1	2394.7
50°	3521.5	3531.8	3532.9	3403.0	3076.4	2706.9	2682.5	2499.8	2638.3	2772.6	2960.5
52.5°	3834.8	3858.1	3765.5	3723.7	3516.3	3090.8	3066.8	2898.1	3129.1	3317.7	3641.4
55°	4125.3	4105.0	4038.9	4064.8	3987.3	3527.8	3509.7	3361.7	3676.1	3921.2	4341.6
57.5°	4282.5	4281.1	4347.5	4458.2	4495.1	4066.6	4051.5	3907.6	4292.9	4477.1	4999.0
60°	4467.1	4469.7	4634.3	4885.6	5037.7	4737.6	4731.0	4621.7	4891.9	4996.0	5514.6
62.5°	4492.9	4539.4	4822.9	5255.5	5545.6	5521.6	5536.3	5265.1	5427.8	5410.1	5899.5
65°	4195.8	4257.1	4770.1	5367.3	6050.5	6379.0	6392.6	5912.1	5850.4	5764.1	6037.2
67.5°	3586.8	3677.6	4234.9	5124.1	6216.9	7012.7	7031.9	6413.7	6201.1	5884.0	5705.8
70°	2610.2	2711.0	3272.0	4376.3	5920.2	7215.3	7237.1	6635.5	6214.4	5542.6	4870.9
72.5°	1576.8	1655.7	2118.2	3221.8	4996.7	6846.2	6885.0	6354.3	5673.6	4694.8	3596.8
75°	692.4	744.1	1024.2	1856.5	3577.2	5664.4	5712.8	5438.9	4609.9	3411.9	2126.0
77.5°	294.9	309.7	420.0	806.5	2022.2	3870.6	3937.1	3974.0	3127.7	1856.5	898.4
80°	183.8	189.7	237.7	365.0	946.3	2173.9	2245.5	2338.2	1553.1	682.4	313.7
82.5°	111.8	118.5	158.0	220.7	492.7	985.5	1019.8	1085.1	602.7	294.9	162.4
85°	67.2	72.0	96.7	139.5	280.5	387.5	387.2	428.1	283.8	189.7	85.6
87.5°	32.1	35.8	51.7	72.3	141.4	145.4	136.2	154.3	172.4	124.4	43.2
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: P1209035

CATALOG NUMBER: UPW-SA2-090-730-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8
2.5°	1098.0	1096.6	1091.8	1088.1	1087.3	1085.1	1083.3	1084.4	1085.9	1086.2	1086.2
5°	1097.7	1093.6	1087.3	1084.8	1088.1	1092.5	1098.0	1105.4	1109.9	1113.2	1115.4
7.5°	1115.4	1107.6	1100.6	1099.1	1105.8	1117.6	1130.2	1145.7	1156.4	1163.7	1165.2
10°	1144.9	1135.3	1128.3	1129.8	1141.6	1158.6	1176.3	1196.2	1212.5	1222.4	1223.2
12.5°	1178.9	1169.6	1163.0	1169.3	1188.8	1209.5	1228.0	1245.3	1260.1	1270.0	1270.0
15°	1218.0	1211.4	1203.6	1218.0	1244.6	1263.0	1270.8	1279.3	1287.4	1294.8	1293.3
17.5°	1255.6	1249.4	1245.3	1262.3	1290.0	1298.5	1293.3	1287.0	1287.0	1291.1	1291.8
20°	1288.1	1282.6	1285.2	1301.8	1316.2	1307.3	1288.1	1268.2	1260.1	1262.3	1264.5
22.5°	1316.5	1314.0	1321.7	1329.5	1319.1	1288.1	1252.7	1225.7	1215.8	1215.0	1215.8
25°	1349.8	1349.4	1359.0	1345.0	1299.2	1242.0	1194.4	1168.2	1162.6	1167.1	1174.4
27.5°	1391.1	1395.2	1400.0	1348.7	1258.6	1172.2	1123.9	1105.8	1111.3	1122.0	1129.0
30°	1443.9	1455.0	1444.6	1339.4	1200.3	1092.5	1046.4	1041.2	1056.3	1071.5	1078.8
32.5°	1495.2	1512.5	1487.4	1315.4	1125.0	1008.0	972.2	970.7	989.2	1003.9	1014.3
35°	1536.5	1570.8	1519.5	1267.8	1037.9	930.1	903.9	893.9	900.6	917.9	929.7
37.5°	1590.4	1647.6	1541.7	1195.1	943.4	865.9	835.3	812.4	806.5	813.5	819.4
40°	1689.0	1764.6	1552.0	1093.6	851.1	801.7	770.7	737.1	713.8	696.8	697.2
42.5°	1849.9	1917.1	1545.4	970.3	765.9	738.9	703.9	665.1	627.5	589.1	586.1
45°	2111.2	2143.7	1525.4	839.7	690.9	673.2	640.4	601.6	551.4	507.9	503.8
47.5°	2529.4	2457.4	1494.4	725.6	624.9	617.5	587.2	542.6	489.4	454.3	451.4
50°	3099.6	2910.3	1479.3	634.8	566.6	568.8	544.0	496.8	446.6	420.8	417.8
52.5°	3781.7	3437.7	1508.5	564.7	519.7	527.4	509.0	464.7	422.6	402.3	399.4
55°	4489.2	3984.0	1539.8	513.8	475.4	490.5	484.2	447.7	409.7	390.9	388.3
57.5°	5094.9	4391.8	1477.1	472.4	435.9	459.5	465.1	437.0	403.0	386.1	383.1
60°	5476.2	4556.0	1312.5	433.7	404.5	434.8	454.0	434.0	405.6	404.2	401.9
62.5°	5657.0	4541.7	1065.6	403.0	385.0	424.1	462.1	450.7	435.2	448.4	449.6
65°	5575.8	4324.6	793.5	382.7	370.9	428.1	486.5	482.0	443.6	456.9	458.8
67.5°	5041.4	3806.8	587.6	365.0	355.4	439.6	530.8	492.4	427.0	436.6	430.7
70°	4074.8	3018.0	453.2	345.1	339.6	438.1	550.7	486.1	409.0	411.2	395.3
72.5°	2809.9	2058.0	368.7	326.6	316.7	399.4	536.7	470.6	393.8	376.8	355.8
75°	1528.0	1104.7	313.4	307.5	276.4	350.6	510.8	459.5	380.2	357.6	345.8
77.5°	601.2	458.4	272.0	281.2	241.8	309.7	482.0	438.5	361.3	331.8	325.9
80°	245.4	234.0	225.5	243.2	207.8	270.9	447.3	413.7	338.8	307.8	296.0
82.5°	139.1	145.4	175.3	191.9	168.7	249.5	430.7	393.8	311.9	275.7	261.7
85°	71.2	85.3	122.2	137.7	124.0	212.2	396.8	344.7	250.2	211.1	212.2
87.5°	34.3	47.6	77.1	86.4	80.5	153.5	296.4	249.9	194.9	154.3	149.5
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)