

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P633612

Luminaire Tested: GWS-SA2F-722-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-722-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11847.1 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

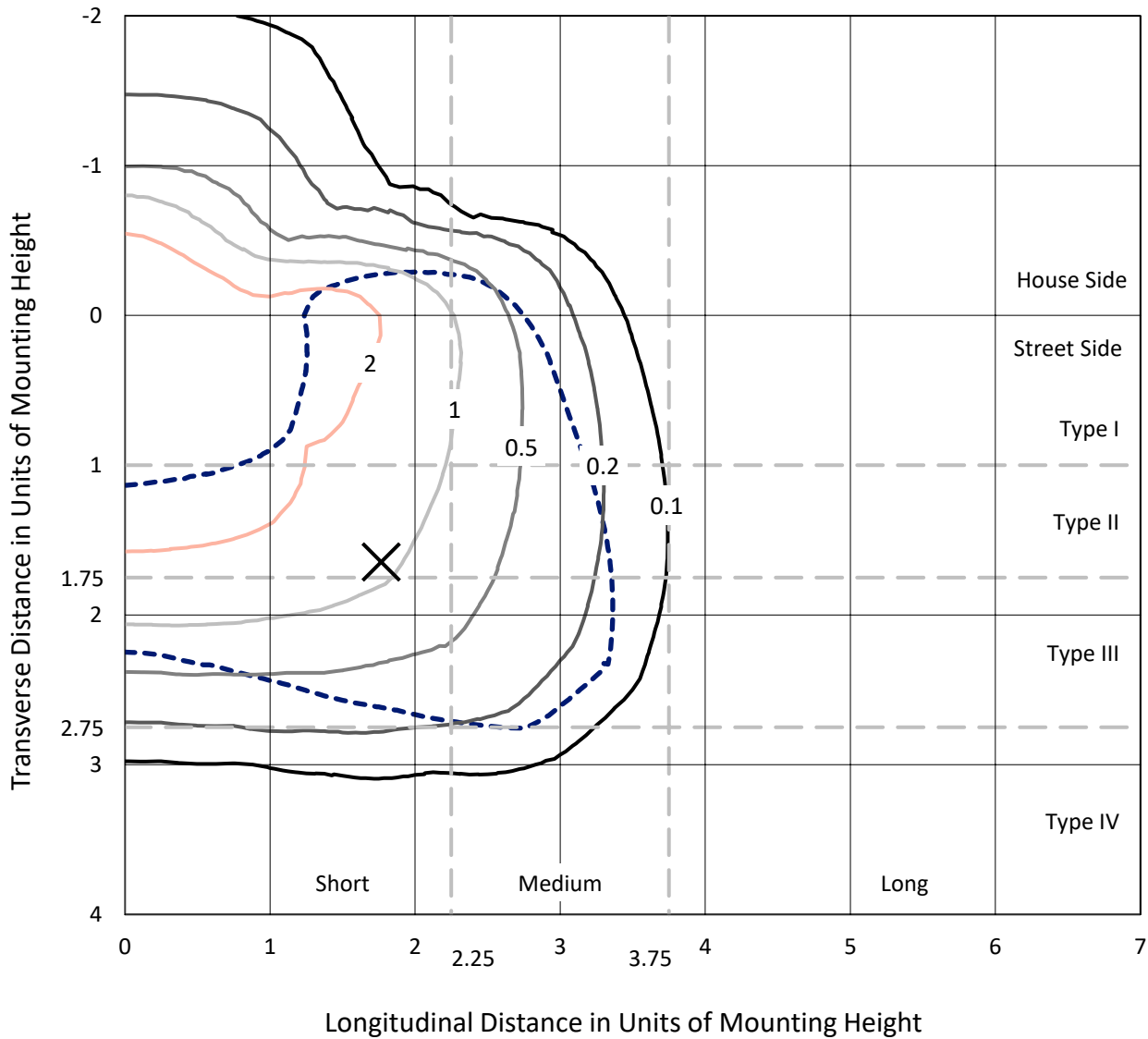
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633612
 CATALOG NUMBER: GWS-SA2F-722-U-T4W-W

Iso-Footcandle Lines of Horizontal Illumination

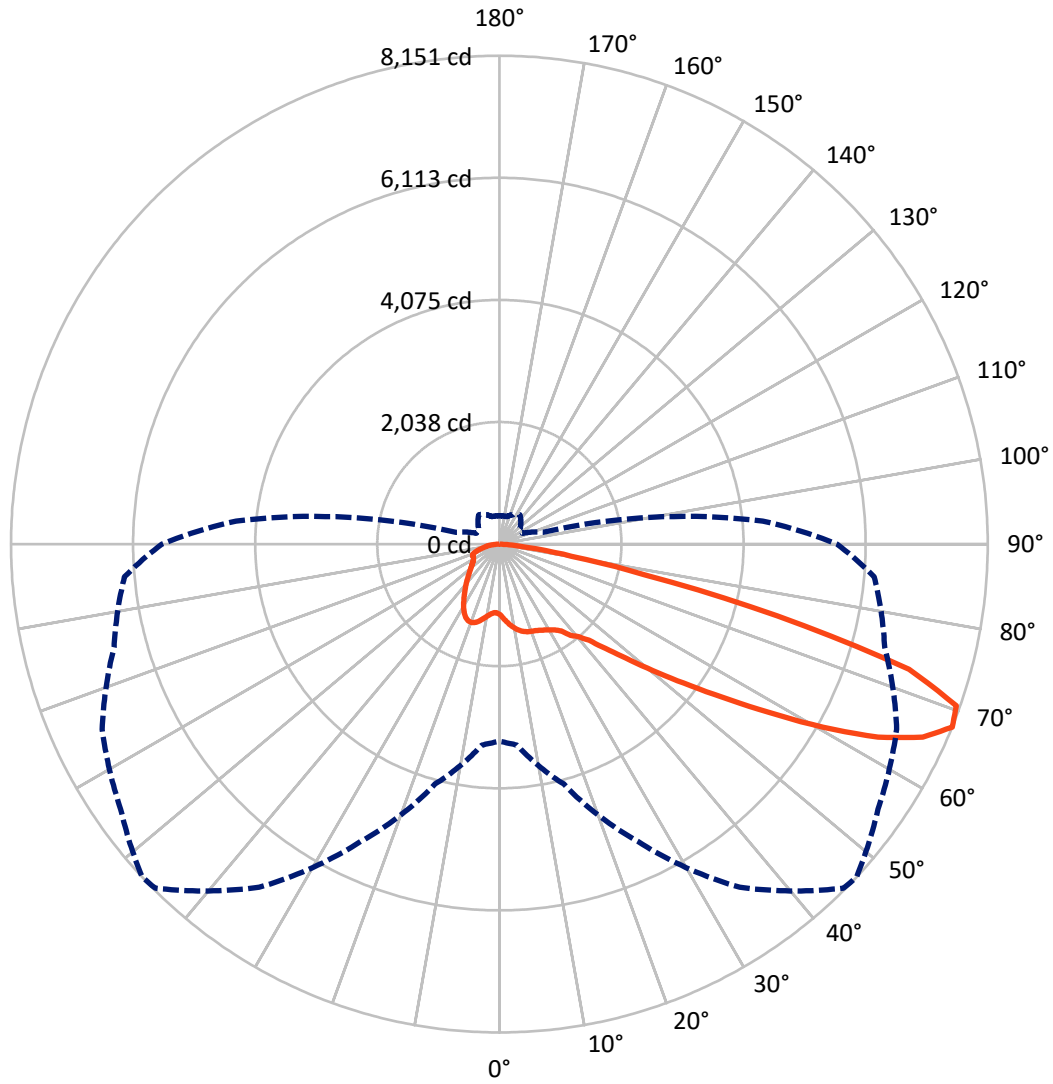
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - N/A

REPORT NUMBER: P633612
CATALOG NUMBER: GWS-SA2F-722-U-T4W-W

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2700.1	0.0	2700.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	9147.1	0.0	9147.1
	% Fixture	77.2	0.0	77.2
Total	Lumens	11847.1	0.0	11847.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	1.0
10°-20°	399.9	3.4
20°-30°	679.7	5.7
30°-40°	995.7	8.4
40°-50°	1517.1	12.8
50°-60°	2714.3	22.9
60°-70°	3622.0	30.6
70°-80°	1637.9	13.8
80°-90°	160.5	1.4
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°	11847.1	100.0
0°-180°	11847.1	100.0

Coefficient of Utilization



REPORT NUMBER: P633612

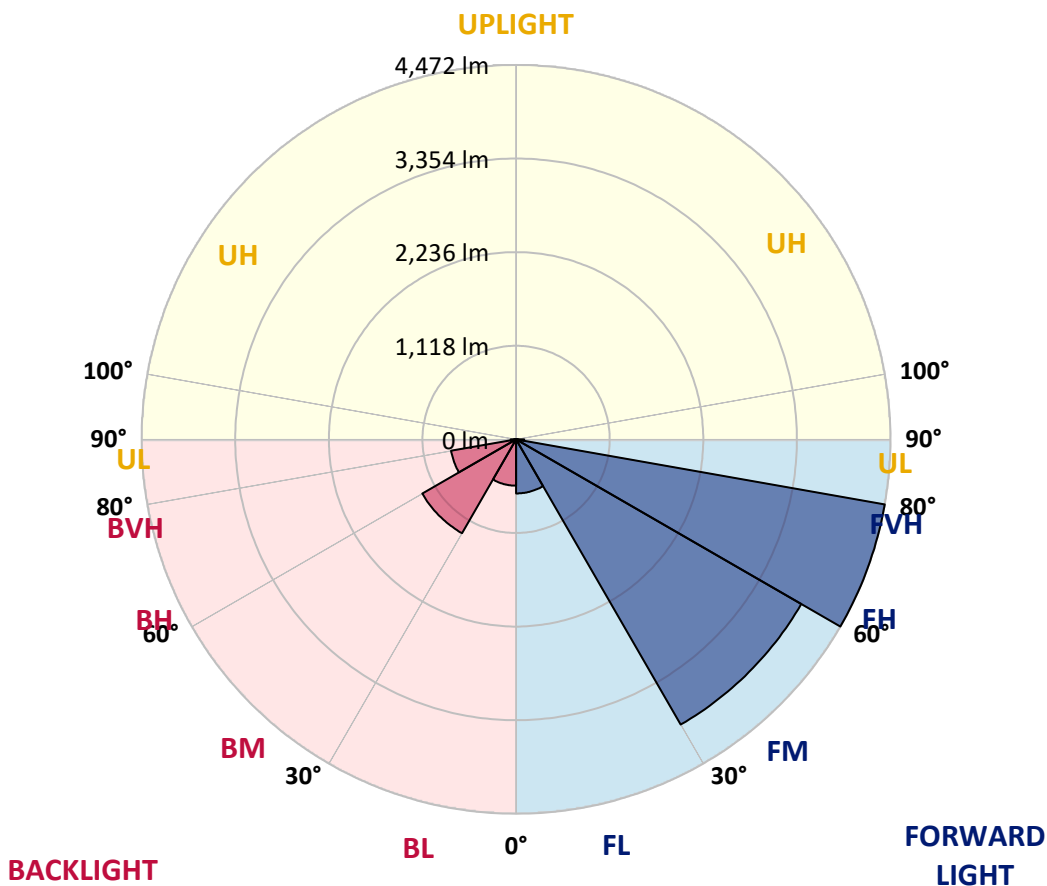
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	646.1	5.5			
FM (30°-60°)	3933.4	33.2			
FH (60°-80°)	4472.1	37.7			G2/5000
FVH (80°-90°)	95.5	0.8			G1/100
BL (0°-30°)	553.5	4.7	B2/1000		
BM (30°-60°)	1293.7	10.9	B2/2500		
BH (60°-80°)	787.8	6.6	B2/1000		G2/1000
BVH (80°-90°)	65.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





REPORT NUMBER: P633612
 CATALOG NUMBER: GWS-SA2F-722-U-T4W-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4
2.5°	1252.4	1256.7	1255.8	1248.9	1244.7	1237.0	1237.8	1225.8	1207.8	1195.8	1182.1
5°	1362.9	1369.7	1361.2	1350.0	1332.9	1308.1	1305.5	1278.1	1243.8	1219.8	1195.0
7.5°	1458.8	1463.1	1452.8	1434.0	1409.1	1375.7	1369.7	1337.2	1294.3	1256.7	1220.7
10°	1533.3	1538.5	1524.8	1499.9	1467.4	1434.0	1429.7	1396.3	1350.9	1306.3	1260.9
12.5°	1596.7	1598.4	1583.9	1550.5	1515.4	1481.1	1476.8	1446.0	1404.0	1358.6	1308.9
15°	1633.6	1634.4	1616.4	1579.6	1546.2	1516.2	1513.6	1487.1	1448.5	1405.7	1352.6
17.5°	1631.0	1632.7	1619.9	1587.3	1558.2	1540.2	1537.6	1520.5	1490.5	1452.0	1398.9
20°	1599.3	1601.0	1592.5	1571.0	1555.6	1550.5	1551.3	1546.2	1528.2	1496.5	1442.5
22.5°	1574.5	1577.0	1569.3	1553.9	1552.2	1564.2	1566.8	1569.3	1560.8	1532.5	1480.2
25°	1586.5	1590.7	1578.7	1557.3	1560.8	1587.3	1592.5	1601.0	1594.2	1570.2	1524.8
27.5°	1669.5	1672.1	1641.3	1597.6	1587.3	1615.6	1623.3	1637.0	1631.9	1609.6	1574.5
30°	1862.3	1860.6	1794.6	1687.5	1644.7	1655.8	1661.8	1681.5	1683.3	1668.7	1635.3
32.5°	2133.8	2125.3	2023.3	1852.9	1728.7	1701.2	1708.1	1734.7	1754.4	1738.9	1693.5
35°	2420.8	2413.1	2300.9	2101.3	1883.7	1788.6	1780.9	1801.5	1831.4	1788.6	1723.5
37.5°	2694.1	2682.1	2567.3	2320.6	2074.7	1942.0	1930.8	1910.3	1892.3	1810.0	1760.3
40°	2997.3	2983.6	2883.4	2604.1	2285.5	2059.3	2031.0	1949.7	1933.4	1881.1	1856.3
42.5°	3321.1	3321.1	3238.0	2963.0	2539.9	2227.2	2190.4	2067.9	2085.0	2050.7	2021.6
45°	3644.9	3654.3	3588.4	3324.5	2879.9	2544.2	2485.0	2311.2	2352.3	2336.9	2322.3
47.5°	3920.7	3938.7	3925.9	3693.7	3296.3	2929.6	2839.7	2658.9	2747.2	2784.0	2825.1
50°	4218.0	4237.7	4224.8	4133.2	3783.7	3396.5	3316.0	3129.2	3280.8	3391.3	3525.8
52.5°	4659.1	4687.4	4580.3	4545.2	4375.6	3926.7	3854.8	3642.3	3917.3	4100.6	4400.4
55°	5031.8	5030.9	4993.2	5073.7	5011.2	4575.2	4495.5	4302.8	4654.0	4848.5	5287.0
57.5°	5204.8	5225.4	5354.7	5582.6	5707.6	5367.6	5291.3	5094.3	5444.7	5545.7	6019.5
60°	5293.9	5319.6	5569.7	6020.3	6357.0	6232.7	6202.8	5951.8	6148.8	6136.8	6637.1
62.5°	5168.8	5220.2	5622.0	6220.8	6820.4	7102.2	7092.8	6713.3	6747.6	6630.2	7020.0
65°	4594.9	4650.6	5281.0	6120.5	7085.1	7763.5	7766.1	7402.9	7207.6	6870.1	6955.7
67.5°	3286.0	3365.6	4145.2	5476.4	6991.7	8120.7	8150.7	7715.6	7315.5	6657.6	6280.7
70°	1791.2	1849.4	2460.2	3980.7	6150.5	8035.1	8090.8	7564.8	6839.2	5759.0	4834.7
72.5°	813.8	832.6	1144.4	2184.4	4201.7	6916.3	7149.3	6751.0	5616.8	4254.0	3074.4
75°	372.6	381.2	498.6	1045.1	2195.5	4628.3	4791.9	5028.3	3908.7	2686.4	1602.7
77.5°	233.9	236.4	283.5	478.0	1094.8	2310.3	2482.5	2993.9	2288.9	1329.5	669.9
80°	137.9	140.5	176.5	258.7	514.0	1057.1	1220.7	1183.8	1075.9	573.9	305.0
82.5°	69.4	72.0	101.9	147.3	280.1	420.6	495.1	497.7	400.9	311.0	172.2
85°	24.8	25.7	33.4	58.2	119.1	138.8	155.0	189.3	196.2	180.7	83.1
87.5°	0.0	0.0	0.9	1.7	3.4	13.7	14.6	27.4	57.4	64.2	33.4
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: P633612
 CATALOG NUMBER: GWS-SA2F-722-U-T4W-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4
2.5°	1177.8	1165.0	1160.7	1156.4	1149.6	1147.0	1141.9	1136.7	1136.7	1131.6	1129.0
5°	1183.8	1166.7	1155.6	1150.4	1146.2	1148.7	1148.7	1150.4	1156.4	1153.0	1154.7
7.5°	1205.3	1185.6	1170.1	1165.9	1165.9	1176.1	1183.0	1191.6	1202.7	1204.4	1204.4
10°	1243.0	1219.8	1203.5	1201.0	1205.3	1219.8	1230.1	1240.4	1254.1	1254.9	1256.7
12.5°	1284.1	1260.9	1244.7	1248.1	1252.4	1271.2	1282.4	1290.9	1304.6	1304.6	1303.8
15°	1326.9	1301.2	1287.5	1294.3	1307.2	1328.6	1330.3	1331.2	1338.0	1336.3	1335.5
17.5°	1371.4	1344.0	1333.8	1344.0	1357.7	1368.0	1359.5	1347.5	1344.9	1341.5	1339.7
20°	1415.1	1386.9	1382.6	1390.3	1394.6	1386.0	1359.5	1337.2	1326.9	1321.8	1320.0
22.5°	1452.8	1428.8	1426.3	1426.3	1404.9	1374.9	1335.5	1305.5	1291.8	1284.9	1283.2
25°	1497.4	1475.1	1470.8	1447.7	1392.9	1338.0	1284.9	1257.5	1246.4	1243.0	1243.8
27.5°	1549.6	1534.2	1520.5	1454.5	1358.6	1272.9	1213.0	1201.0	1196.7	1201.0	1203.5
30°	1613.9	1598.4	1567.6	1446.0	1303.8	1188.1	1130.7	1129.9	1142.7	1153.9	1155.6
32.5°	1666.1	1659.3	1608.7	1418.6	1226.7	1094.8	1045.9	1049.4	1072.5	1087.9	1090.5
35°	1707.2	1718.4	1643.0	1373.2	1135.0	1006.5	968.0	969.7	982.5	1004.0	1004.8
37.5°	1765.5	1803.2	1673.8	1303.8	1029.7	930.3	895.2	882.3	880.6	886.6	888.3
40°	1882.8	1939.4	1696.1	1202.7	927.7	861.8	822.4	797.5	776.1	759.8	754.7
42.5°	2060.2	2125.3	1709.0	1080.2	836.9	794.1	749.5	717.8	680.2	645.9	633.9
45°	2385.7	2407.1	1709.0	950.0	756.4	730.7	686.2	648.5	600.5	560.2	551.7
47.5°	2906.5	2838.0	1710.7	824.1	685.3	675.0	636.5	593.6	540.5	507.1	502.0
50°	3691.2	3450.5	1745.8	719.6	626.2	627.9	599.6	552.5	504.5	479.7	475.4
52.5°	4580.3	4205.1	1840.0	642.5	576.5	589.4	573.9	528.5	485.7	464.3	460.0
55°	5416.4	4899.0	1920.5	587.6	534.5	556.8	555.9	514.0	475.4	454.0	451.4
57.5°	6127.4	5374.4	1908.5	543.1	498.6	526.8	539.7	504.5	468.6	450.6	448.0
60°	6569.4	5626.3	1738.1	502.0	471.1	505.4	530.2	502.0	472.0	467.7	468.6
62.5°	6761.3	5580.0	1410.8	471.1	453.2	495.1	540.5	520.0	503.7	514.0	520.0
65°	6463.2	5182.5	1038.2	448.0	436.0	497.7	564.5	548.2	503.7	510.5	513.1
67.5°	5635.7	4411.6	750.4	424.9	414.6	505.4	598.8	544.0	474.6	474.6	469.4
70°	4061.2	3172.9	544.8	401.8	393.2	494.3	600.5	514.8	441.2	438.6	425.7
72.5°	2443.9	1871.7	424.9	376.1	360.6	438.6	562.8	480.6	408.6	387.2	371.8
75°	1269.5	938.0	356.4	347.8	309.2	371.8	514.8	427.5	349.5	330.7	322.1
77.5°	544.0	438.6	305.8	310.1	257.0	312.7	415.5	370.1	310.1	286.1	278.4
80°	268.1	249.3	241.6	248.4	205.6	241.6	358.1	323.8	263.0	235.6	224.4
82.5°	153.3	145.6	173.9	176.5	146.5	202.2	302.4	274.1	217.6	187.6	169.6
85°	71.1	76.2	105.4	106.2	90.8	138.8	197.9	154.2	115.6	95.9	91.7
87.5°	28.3	33.4	46.3	45.4	26.6	25.7	17.1	9.4	7.7	6.9	6.0
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)