

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: P639057

Luminaire Tested: GWS-SA5B-722-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639057
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-SA5B-722-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12966.8 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

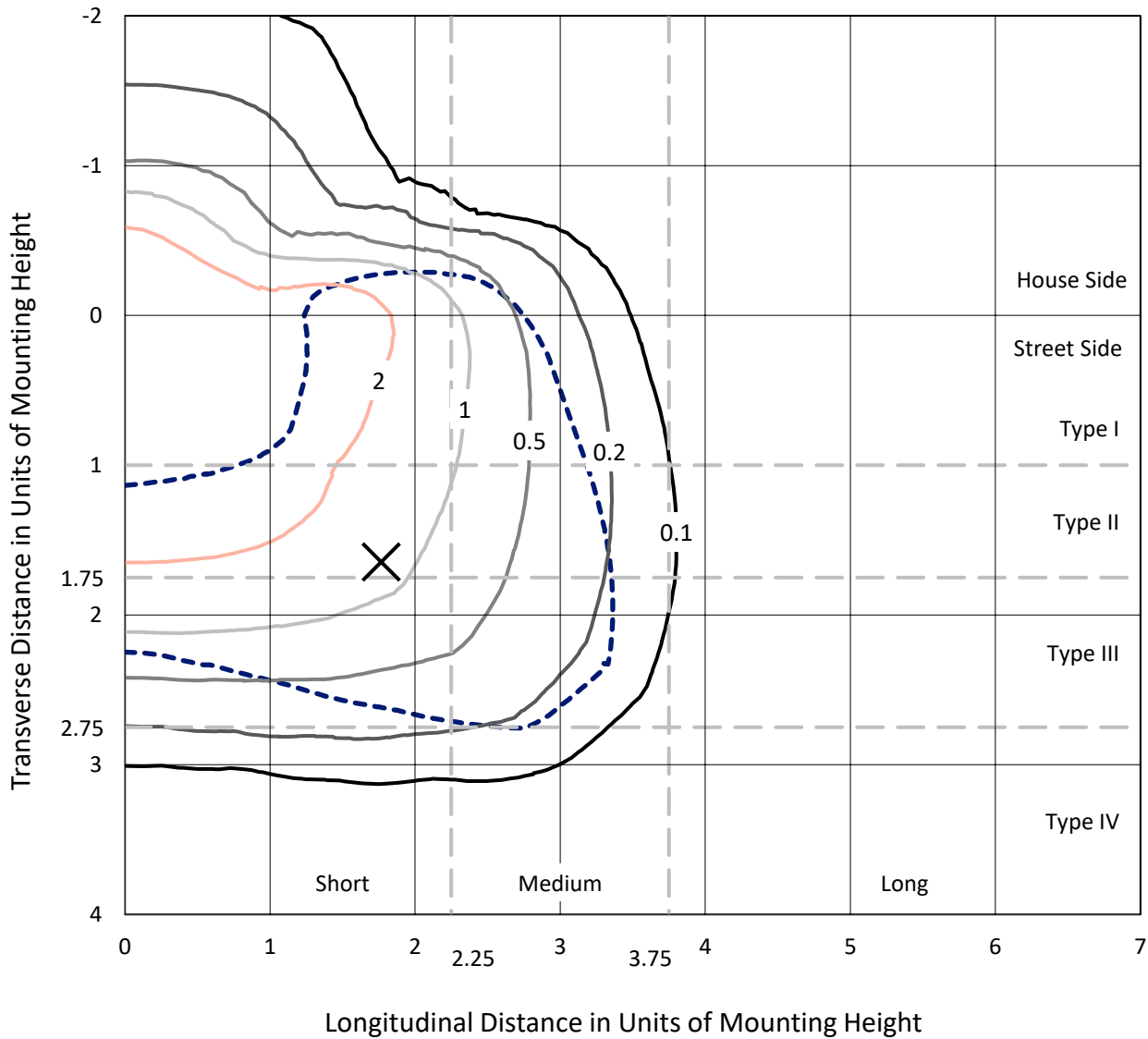
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

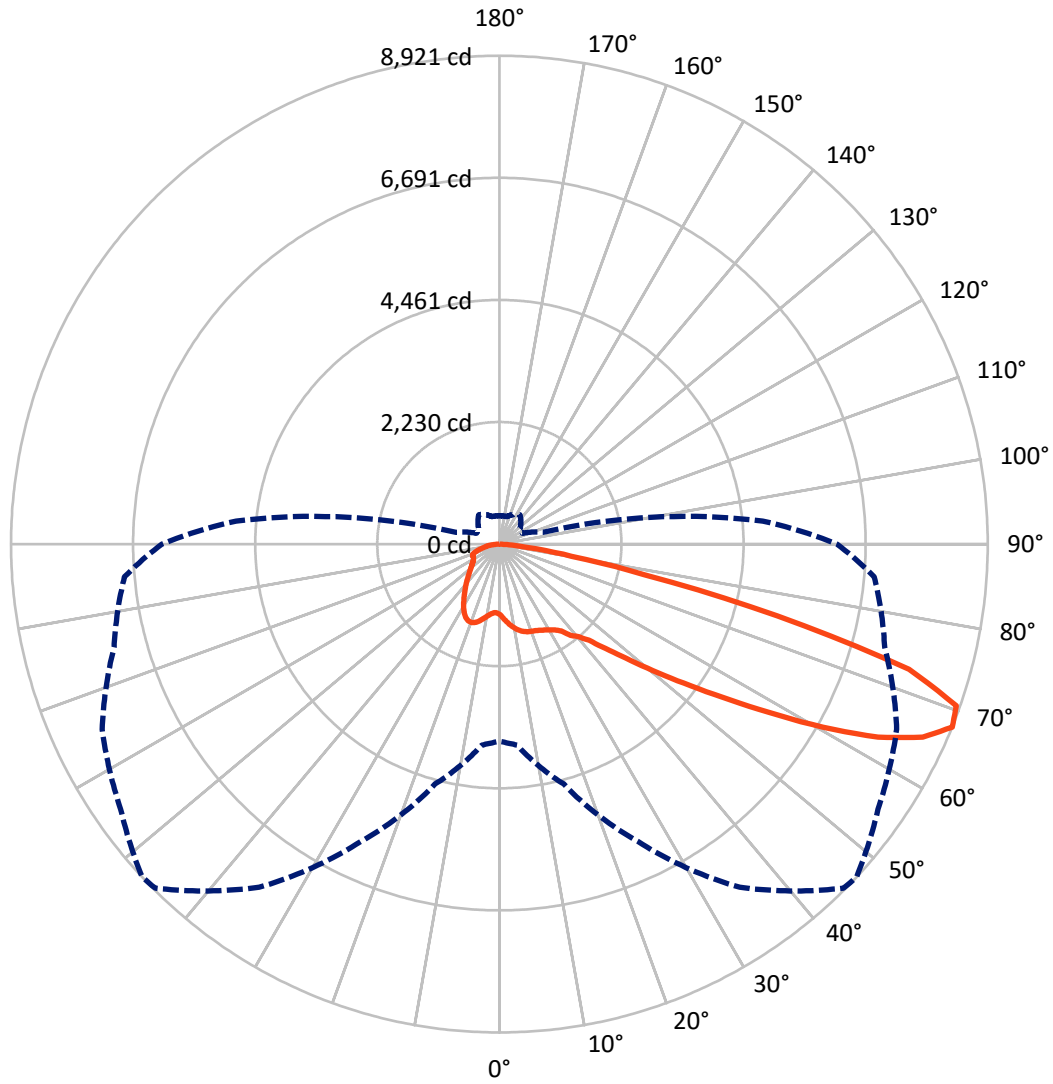
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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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	2955.2	0.0	2955.2
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	10011.6	0.0	10011.6
	% Fixture	77.2	0.0	77.2
Total	Lumens	12966.8	0.0	12966.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	1.0
10°-20°	437.7	3.4
20°-30°	743.9	5.7
30°-40°	1089.8	8.4
40°-50°	1660.4	12.8
50°-60°	2970.9	22.9
60°-70°	3964.3	30.6
70°-80°	1792.7	13.8
80°-90°	175.6	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°	12966.8	100.0
0°-180°	12966.8	100.0

Coefficient of Utilization



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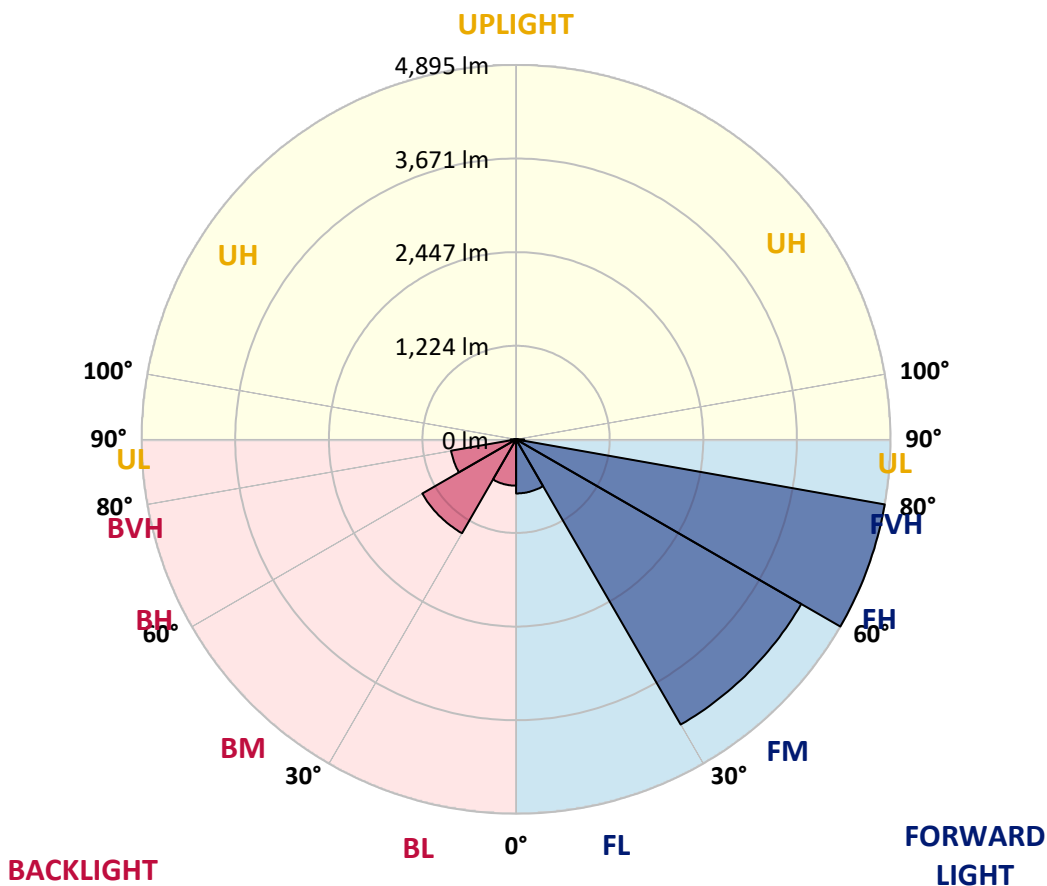
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	707.2	5.5			
FM (30°-60°)	4305.1	33.2			
FH (60°-80°)	4894.8	37.7			G2/5000
FVH (80°-90°)	104.5	0.8			G2/225
BL (0°-30°)	605.8	4.7	B2/1000		
BM (30°-60°)	1416.0	10.9	B2/2500		
BH (60°-80°)	862.2	6.6	B2/1000		G2/1000
BVH (80°-90°)	71.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4
2.5°	1370.7	1375.4	1374.5	1367.0	1362.3	1353.9	1354.8	1341.7	1322.0	1308.9	1293.9
5°	1491.7	1499.2	1489.8	1477.6	1458.9	1431.7	1428.9	1398.9	1361.4	1335.1	1307.9
7.5°	1596.7	1601.4	1590.1	1569.5	1542.3	1505.8	1499.2	1463.6	1416.7	1375.4	1336.0
10°	1678.3	1683.9	1668.9	1641.7	1606.1	1569.5	1564.8	1528.3	1478.6	1429.8	1380.1
12.5°	1747.6	1749.5	1733.6	1697.0	1658.6	1621.1	1616.4	1582.6	1536.7	1487.0	1432.6
15°	1788.0	1788.9	1769.2	1728.9	1692.3	1659.5	1656.7	1627.6	1585.4	1538.6	1480.4
17.5°	1785.1	1787.0	1773.0	1737.3	1705.5	1685.8	1683.0	1664.2	1631.4	1589.2	1531.1
20°	1750.5	1752.3	1743.0	1719.5	1702.6	1697.0	1698.0	1692.3	1672.6	1637.9	1578.9
22.5°	1723.3	1726.1	1717.6	1700.8	1698.9	1712.0	1714.8	1717.6	1708.3	1677.3	1620.1
25°	1736.4	1741.1	1728.0	1704.5	1708.3	1737.3	1743.0	1752.3	1744.8	1718.6	1668.9
27.5°	1827.3	1830.2	1796.4	1748.6	1737.3	1768.3	1776.7	1791.7	1786.1	1761.7	1723.3
30°	2038.3	2036.4	1964.2	1847.0	1800.2	1812.3	1818.9	1840.5	1842.3	1826.4	1789.8
32.5°	2335.5	2326.1	2214.6	2028.0	1892.0	1862.0	1869.5	1898.6	1920.2	1903.3	1853.6
35°	2649.6	2641.2	2518.3	2299.9	2061.7	1957.7	1949.2	1971.7	2004.5	1957.7	1886.4
37.5°	2948.7	2935.6	2809.9	2539.9	2270.8	2125.5	2113.3	2090.8	2071.1	1981.1	1926.7
40°	3280.6	3265.6	3155.9	2850.2	2501.5	2253.9	2223.0	2133.9	2116.1	2058.9	2031.7
42.5°	3635.0	3635.0	3544.0	3243.1	2779.9	2437.7	2397.4	2263.3	2282.1	2244.6	2212.7
45°	3989.4	3999.7	3927.5	3638.7	3152.1	2784.6	2719.9	2529.6	2574.6	2557.7	2541.8
47.5°	4291.3	4311.0	4296.9	4042.8	3607.8	3206.5	3108.1	2910.2	3006.8	3047.1	3092.1
50°	4616.6	4638.2	4624.1	4523.8	4141.3	3717.5	3629.4	3425.0	3590.9	3711.9	3859.1
52.5°	5099.5	5130.4	5013.2	4974.8	4789.2	4297.9	4219.1	3986.6	4287.5	4488.2	4816.3
55°	5507.3	5506.4	5465.1	5553.3	5484.8	5007.6	4920.4	4709.5	5093.9	5306.7	5786.7
57.5°	5696.7	5719.2	5860.8	6110.2	6247.1	5874.9	5791.4	5575.8	5959.2	6069.9	6588.4
60°	5794.2	5822.4	6096.1	6589.3	6957.8	6821.8	6789.0	6514.3	6729.9	6716.8	7264.4
62.5°	5657.3	5713.6	6153.3	6808.7	7465.0	7773.5	7763.2	7347.8	7385.3	7256.9	7683.5
65°	5029.2	5090.1	5780.2	6699.0	7754.7	8497.3	8500.1	8102.6	7888.8	7519.4	7613.1
67.5°	3596.6	3683.7	4536.9	5993.9	7652.5	8888.2	8921.1	8444.8	8006.9	7286.9	6874.3
70°	1960.5	2024.2	2692.7	4356.9	6731.8	8794.5	8855.4	8279.8	7485.6	6303.3	5291.7
72.5°	890.7	911.3	1252.6	2390.8	4598.8	7570.0	7825.0	7389.1	6147.7	4656.0	3365.0
75°	407.8	417.2	545.7	1143.8	2403.0	5065.7	5244.8	5503.6	4278.2	2940.2	1754.2
77.5°	256.0	258.8	310.3	523.2	1198.2	2528.6	2717.1	3276.8	2505.2	1455.1	733.2
80°	151.0	153.8	193.1	283.1	562.5	1157.0	1336.0	1295.7	1177.6	628.2	333.8
82.5°	75.9	78.8	111.6	161.3	306.6	460.4	541.9	544.7	438.8	340.3	188.5
85°	27.2	28.1	36.6	63.8	130.3	151.9	169.7	207.2	214.7	197.8	90.9
87.5°	0.0	0.0	0.9	1.9	3.8	15.0	15.9	30.0	62.8	70.3	36.6
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°	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4
2.5°	1289.2	1275.1	1270.4	1265.7	1258.2	1255.4	1249.8	1244.2	1244.2	1238.5	1235.7
5°	1295.7	1277.0	1264.8	1259.2	1254.5	1257.3	1257.3	1259.2	1265.7	1262.0	1263.9
7.5°	1319.2	1297.6	1280.7	1276.0	1276.0	1287.3	1294.8	1304.2	1316.4	1318.2	1318.2
10°	1360.4	1335.1	1317.3	1314.5	1319.2	1335.1	1346.4	1357.6	1372.6	1373.6	1375.4
12.5°	1405.4	1380.1	1362.3	1366.1	1370.7	1391.4	1403.6	1412.9	1427.9	1427.9	1427.0
15°	1452.3	1424.2	1409.2	1416.7	1430.7	1454.2	1456.1	1457.0	1464.5	1462.6	1461.7
17.5°	1501.1	1471.1	1459.8	1471.1	1486.1	1497.3	1487.9	1474.8	1472.0	1468.2	1466.4
20°	1548.9	1517.9	1513.3	1521.7	1526.4	1517.0	1487.9	1463.6	1452.3	1446.7	1444.8
22.5°	1590.1	1563.9	1561.1	1561.1	1537.6	1504.8	1461.7	1428.9	1413.9	1406.4	1404.5
25°	1638.9	1614.5	1609.8	1584.5	1524.5	1464.5	1406.4	1376.4	1364.2	1360.4	1361.4
27.5°	1696.1	1679.2	1664.2	1592.0	1487.0	1393.2	1327.6	1314.5	1309.8	1314.5	1317.3
30°	1766.4	1749.5	1715.8	1582.6	1427.0	1300.4	1237.6	1236.7	1250.7	1262.9	1264.8
32.5°	1823.6	1816.1	1760.8	1552.6	1342.6	1198.2	1144.8	1148.5	1173.8	1190.7	1193.5
35°	1868.6	1880.8	1798.3	1502.9	1242.3	1101.7	1059.5	1061.3	1075.4	1098.8	1099.8
37.5°	1932.3	1973.6	1832.0	1427.0	1127.0	1018.2	979.8	965.7	963.8	970.4	972.3
40°	2060.8	2122.7	1856.4	1316.4	1015.4	943.2	900.1	872.9	849.4	831.6	826.0
42.5°	2254.9	2326.1	1870.5	1182.3	916.0	869.1	820.4	785.7	744.4	706.9	693.8
45°	2611.2	2634.6	1870.5	1039.8	827.9	799.8	751.0	709.7	657.2	613.2	603.8
47.5°	3181.2	3106.2	1872.3	902.0	750.1	738.8	696.6	649.7	591.6	555.0	549.4
50°	4040.0	3776.6	1910.8	787.6	685.4	687.2	656.3	604.7	552.2	525.0	520.4
52.5°	5013.2	4602.6	2013.9	703.2	631.0	645.1	628.2	578.5	531.6	508.2	503.5
55°	5928.3	5362.0	2102.1	643.2	585.0	609.4	608.5	562.5	520.4	496.9	494.1
57.5°	6706.5	5882.4	2088.9	594.4	545.7	576.6	590.7	552.2	512.9	493.2	490.4
60°	7190.3	6158.0	1902.3	549.4	515.7	553.2	580.4	549.4	516.6	511.9	512.9
62.5°	7400.3	6107.4	1544.2	515.7	496.0	541.9	591.6	569.1	551.3	562.5	569.1
65°	7074.0	5672.4	1136.3	490.4	477.2	544.7	617.9	600.1	551.3	558.8	561.6
67.5°	6168.3	4828.5	821.3	465.0	453.8	553.2	655.4	595.4	519.4	519.4	513.8
70°	4445.1	3472.8	596.3	439.7	430.3	541.0	657.2	563.5	482.9	480.0	466.0
72.5°	2674.9	2048.6	465.0	411.6	394.7	480.0	616.0	526.0	447.2	423.8	406.9
75°	1389.5	1026.6	390.0	380.7	338.5	406.9	563.5	467.9	382.5	361.9	352.5
77.5°	595.4	480.0	334.7	339.4	281.3	342.2	454.7	405.0	339.4	313.2	304.7
80°	293.5	272.8	264.4	271.9	225.0	264.4	391.9	354.4	287.8	257.8	245.6
82.5°	167.8	159.4	190.3	193.1	160.3	221.3	331.0	300.0	238.1	205.3	185.6
85°	77.8	83.4	115.3	116.3	99.4	151.9	216.6	168.8	126.6	105.0	100.3
87.5°	30.9	36.6	50.6	49.7	29.1	28.1	18.8	10.3	8.4	7.5	6.6
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)