

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: P636578

Luminaire Tested: GWS-SA4B-722-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636578  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-722-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

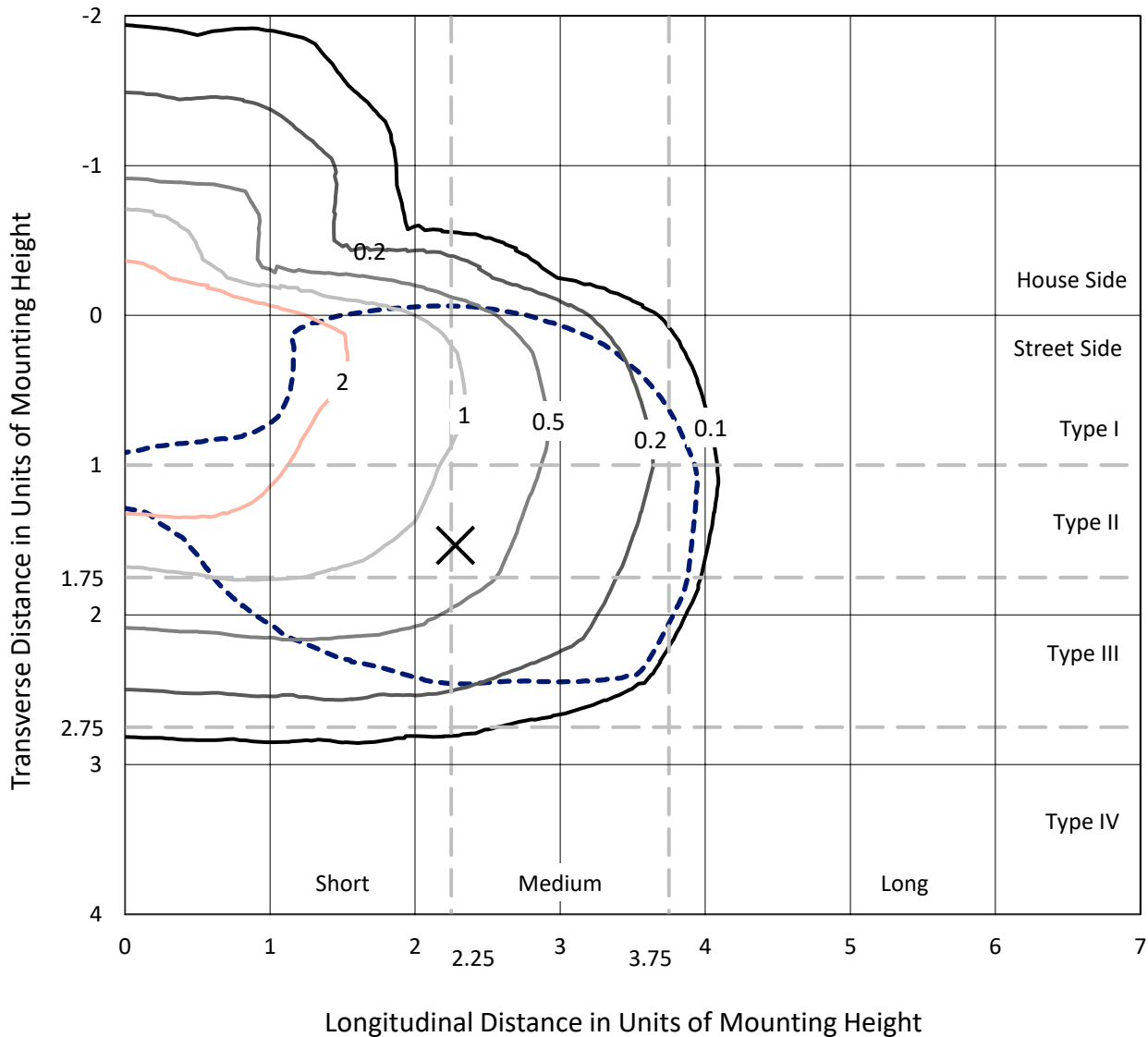
Lumens per Lamp: N/A  
Luminaire Lumens: 10838.6 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): 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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 CATALOG NUMBER: GWS-SA4B-722-U-T3R-W

### Iso-Footcandle Lines of Horizontal Illumination

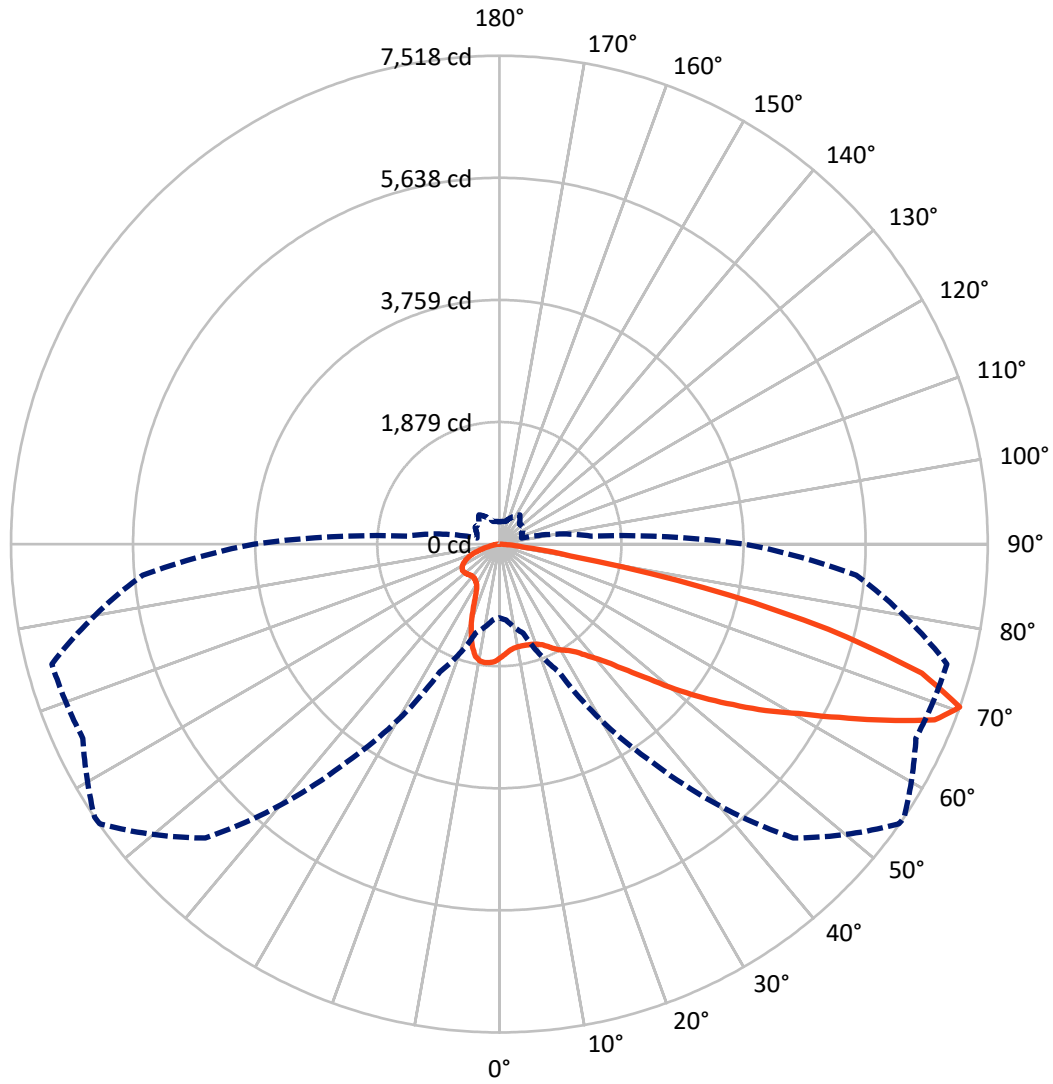
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc  
 Type III - Medium - N/A

REPORT NUMBER: P636578  
CATALOG NUMBER: GWS-SA4B-722-U-T3R-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P636578

CATALOG NUMBER: GWS-SA4B-722-U-T3R-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2083.7	0.0	2083.7
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	8754.9	0.0	8754.9
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	10838.6	0.0	10838.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.9	1.5
10°-20°	438.7	4.0
20°-30°	725.2	6.7
30°-40°	1084.3	10.0
40°-50°	1613.6	14.9
50°-60°	2294.1	21.2
60°-70°	2841.3	26.2
70°-80°	1568.9	14.5
80°-90°	110.5	1.0
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°	10838.6	100.0
0°-180°	10838.6	100.0

**Coefficient of Utilization**



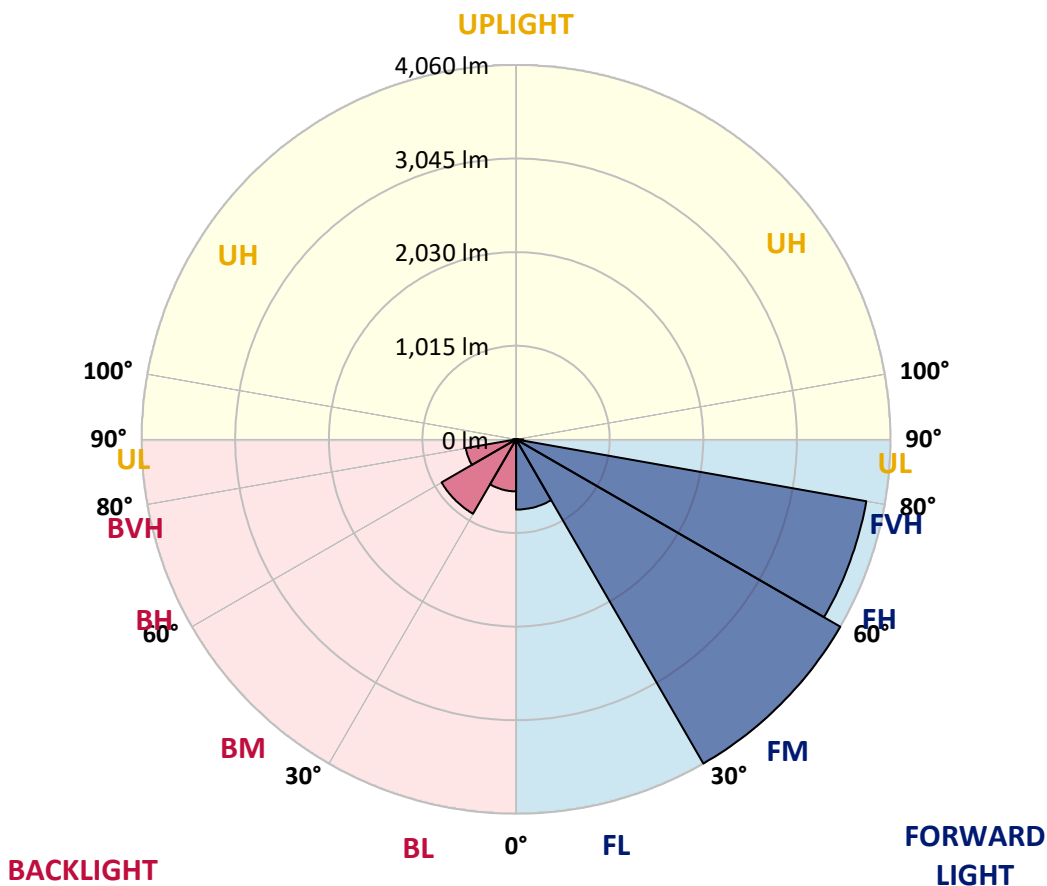
REPORT NUMBER: P636578

CATALOG NUMBER: GWS-SA4B-722-U-T3R-W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	761.7	7.0			
FM (30°-60°)	4060.0	37.5			
FH (60°-80°)	3856.4	35.6			G2/5000
FVH (80°-90°)	76.8	0.7			G1/100
BL (0°-30°)	564.1	5.2	B2/1000		
BM (30°-60°)	932.1	8.6	B1/1000		
BH (60°-80°)	553.8	5.1	B2/1000		G2/1000
BVH (80°-90°)	33.7	0.3			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 Medium





REPORT NUMBER: P636578

CATALOG NUMBER: GWS-SA4B-722-U-T3R-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5
2.5°	1637.2	1628.0	1638.7	1644.0	1657.8	1677.7	1695.3	1696.0	1705.2	1727.4	1748.8
5°	1563.0	1558.4	1561.5	1577.5	1592.1	1617.3	1644.0	1646.3	1672.3	1715.9	1758.7
7.5°	1505.7	1499.6	1511.1	1531.7	1550.0	1578.3	1613.5	1616.5	1653.2	1718.9	1784.7
10°	1423.2	1418.6	1440.0	1467.5	1507.2	1553.9	1600.5	1604.3	1652.4	1738.8	1830.5
12.5°	1387.2	1387.2	1396.4	1422.4	1466.0	1527.9	1598.2	1604.3	1664.7	1769.4	1889.4
15°	1443.0	1446.8	1439.2	1437.7	1455.3	1514.1	1601.2	1610.4	1687.6	1800.7	1947.5
17.5°	1555.4	1559.2	1539.3	1508.0	1490.4	1527.1	1612.7	1622.6	1712.1	1835.1	2010.1
20°	1712.8	1717.4	1673.8	1625.7	1565.3	1564.6	1634.9	1644.0	1743.4	1872.6	2076.6
22.5°	1897.0	1900.1	1845.1	1768.6	1676.1	1634.1	1673.1	1682.3	1783.9	1924.5	2148.5
25°	2110.3	2119.4	2052.9	1942.1	1816.8	1729.6	1736.5	1747.2	1856.5	1994.1	2233.3
27.5°	2338.0	2349.5	2273.1	2150.8	1978.0	1835.1	1818.3	1827.5	1933.7	2036.9	2278.4
30°	2571.2	2579.6	2503.1	2363.3	2151.5	1954.4	1887.1	1892.4	1967.3	2057.5	2324.3
32.5°	2830.3	2823.4	2750.0	2588.7	2351.8	2097.3	1951.3	1949.8	2004.8	2098.8	2390.0
35°	3073.3	3083.2	3005.3	2827.2	2571.9	2273.8	2047.6	2041.5	2084.3	2166.1	2482.5
37.5°	3367.6	3364.5	3271.3	3078.7	2792.8	2442.8	2182.9	2172.2	2187.5	2270.8	2611.7
40°	3577.8	3599.2	3538.8	3359.2	3051.1	2650.6	2341.1	2317.4	2321.2	2399.9	2784.4
42.5°	3749.7	3769.6	3775.7	3661.1	3346.9	2907.5	2538.3	2514.6	2516.9	2628.5	2996.9
45°	3882.0	3908.7	3995.1	3961.4	3680.2	3204.0	2805.0	2780.6	2782.1	2905.9	3253.7
47.5°	3936.2	3965.3	4140.3	4220.5	4034.1	3558.7	3136.7	3100.8	3106.2	3243.0	3547.2
50°	3918.6	3957.6	4194.6	4420.0	4330.6	3919.4	3533.4	3508.2	3487.6	3686.3	3865.9
52.5°	3767.3	3810.1	4189.2	4546.9	4572.9	4260.3	3943.1	3928.6	3924.0	4157.1	4222.1
55°	3321.7	3393.6	4005.0	4580.5	4762.4	4581.3	4387.2	4362.7	4386.4	4661.6	4582.1
57.5°	3074.8	3128.3	3644.3	4543.1	4917.6	4887.0	4830.5	4832.8	4859.5	5209.6	5018.5
60°	2934.2	2996.9	3444.0	4440.7	5066.6	5258.5	5294.4	5294.4	5342.6	5800.4	5461.8
62.5°	2747.7	2811.2	3256.7	4243.5	5204.2	5695.7	5877.6	5875.3	5894.4	6434.0	5895.2
65°	2369.4	2428.2	2880.7	3932.4	5271.5	6177.2	6540.2	6533.4	6495.1	6998.1	6181.8
67.5°	1720.5	1776.3	2206.6	3340.8	5029.2	6565.5	7222.8	7225.8	6997.3	7353.5	6197.1
70°	1134.2	1172.5	1418.6	2169.9	4089.8	6398.1	7508.6	7517.8	7074.5	7131.8	5515.3
72.5°	707.8	734.5	885.8	1294.0	2416.8	5064.4	6774.9	6800.1	6364.4	6267.4	4531.6
75°	470.1	488.4	589.3	754.4	1118.2	2740.8	5150.0	5231.0	5101.0	4913.0	3157.4
77.5°	282.8	298.1	375.3	479.2	495.3	1070.8	3006.1	3215.5	3233.8	2565.0	1322.3
80°	129.2	146.7	207.1	273.6	263.7	373.0	1060.1	1109.0	1308.5	814.8	417.3
82.5°	76.4	84.1	137.6	136.0	112.4	181.1	381.4	391.3	332.5	298.1	178.1
85°	30.6	35.9	58.1	51.2	41.3	58.9	143.7	150.6	144.5	129.9	65.7
87.5°	0.0	0.0	0.0	0.0	0.8	1.5	13.0	13.8	19.9	35.9	19.9
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°	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5	1749.5
2.5°	1762.5	1757.9	1780.9	1798.4	1806.1	1813.7	1806.8	1804.5	1804.5	1789.3	1781.6
5°	1781.6	1783.9	1815.2	1829.8	1829.8	1823.7	1805.3	1792.3	1787.7	1767.9	1762.5
7.5°	1817.5	1827.5	1856.5	1855.8	1834.4	1800.7	1754.9	1719.7	1687.6	1673.8	1665.4
10°	1876.4	1889.4	1909.3	1877.2	1817.5	1728.9	1631.8	1555.4	1509.5	1472.8	1472.8
12.5°	1943.7	1955.9	1952.1	1877.9	1754.9	1589.0	1449.1	1361.2	1297.0	1263.4	1263.4
15°	2010.9	2020.8	1979.6	1842.8	1624.2	1403.3	1250.4	1144.9	1089.1	1057.8	1057.8
17.5°	2078.9	2078.2	1991.0	1761.7	1453.7	1197.7	1047.9	966.1	947.0	941.6	940.9
20°	2144.7	2127.1	1976.5	1626.5	1255.8	990.6	895.8	901.1	929.4	941.6	943.2
22.5°	2218.8	2175.2	1933.7	1453.7	1031.1	846.9	853.0	897.3	938.6	956.9	959.2
25°	2294.5	2216.5	1861.9	1251.2	843.0	794.1	841.5	891.2	937.8	961.5	963.8
27.5°	2325.0	2216.5	1739.6	1016.5	742.9	772.0	823.9	872.1	921.0	948.5	953.9
30°	2350.3	2197.4	1568.4	804.8	701.6	750.6	795.7	840.0	888.1	921.8	927.9
32.5°	2385.4	2180.6	1361.2	676.4	682.5	729.9	761.3	798.7	842.3	864.4	862.1
35°	2426.7	2154.6	1111.3	615.3	666.5	712.3	734.5	756.7	736.8	736.0	738.3
37.5°	2485.6	2131.7	893.5	587.8	655.8	700.1	718.5	671.1	643.6	632.1	627.5
40°	2570.4	2122.5	704.7	571.7	654.3	699.3	686.4	613.0	575.5	535.8	535.0
42.5°	2677.4	2115.6	582.4	564.1	659.6	716.9	642.0	574.8	497.6	480.0	478.5
45°	2815.0	2104.9	521.3	562.5	672.6	730.7	637.4	522.0	469.3	461.6	461.6
47.5°	2980.8	2088.1	493.7	562.5	687.1	724.6	623.7	510.6	456.3	464.7	470.1
50°	3171.1	2066.7	479.2	561.0	701.6	724.6	594.6	508.3	453.2	496.8	514.4
52.5°	3374.5	2042.2	469.3	554.9	711.6	725.3	596.2	515.9	456.3	504.4	519.0
55°	3599.2	2038.4	455.5	541.9	714.6	705.5	600.0	532.7	460.9	457.1	457.8
57.5°	3882.7	2084.3	445.6	522.8	702.4	665.0	607.6	545.0	455.5	456.3	461.6
60°	4179.3	2170.7	454.0	504.4	677.2	626.7	613.0	538.8	429.5	417.3	418.8
62.5°	4431.5	2236.4	460.9	496.0	640.5	593.1	607.6	525.1	415.0	412.0	418.8
65°	4537.0	2182.1	444.1	478.5	587.0	551.8	596.2	507.5	402.8	391.3	392.1
67.5°	4420.0	1927.6	411.2	439.5	526.6	499.1	577.8	484.6	386.0	372.2	369.2
70°	3775.7	1416.3	354.6	377.6	453.2	437.2	549.5	454.8	359.2	349.3	342.4
72.5°	3042.7	1002.8	294.3	300.4	355.4	368.4	500.6	417.3	328.7	300.4	290.4
75°	2117.9	629.8	245.3	239.2	256.8	281.3	390.6	346.2	283.6	253.8	244.6
77.5°	911.1	323.3	191.8	188.8	171.2	194.9	299.6	288.9	237.7	203.3	198.0
80°	305.0	187.3	138.3	133.0	113.9	136.8	211.0	230.8	186.5	150.6	141.4
82.5°	152.9	108.5	87.9	79.5	76.4	86.4	124.6	143.7	129.2	103.9	87.9
85°	74.9	61.9	48.2	47.4	39.7	37.5	52.0	61.1	58.1	42.8	40.5
87.5°	27.5	24.5	15.3	12.2	7.6	5.4	3.1	3.1	2.3	2.3	2.3
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)