

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: P632528

Luminaire Tested: GWS-SA2C-830-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632528  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-830-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

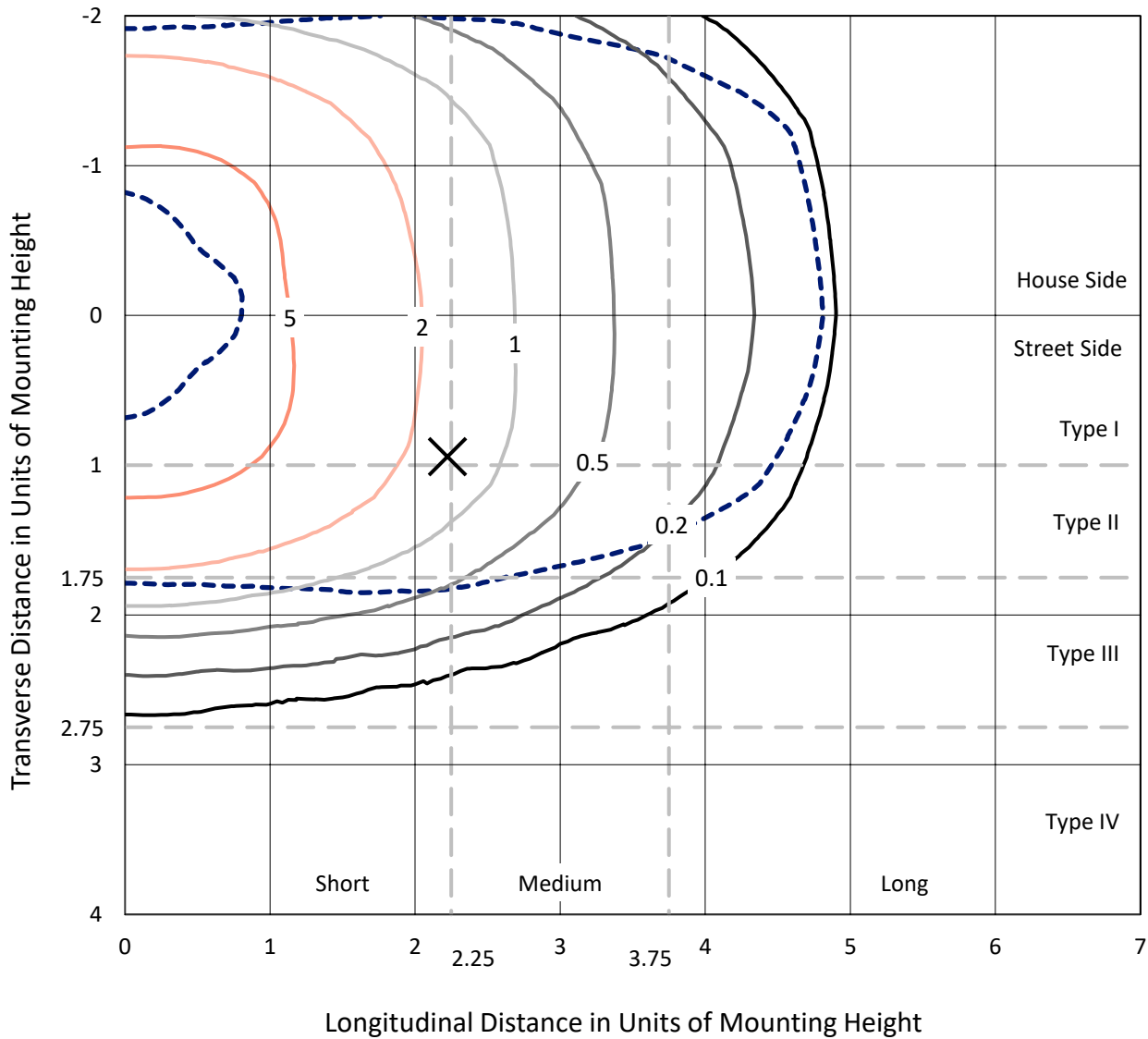
Lumens per Lamp: N/A  
Luminaire Lumens: 7568.6 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): 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

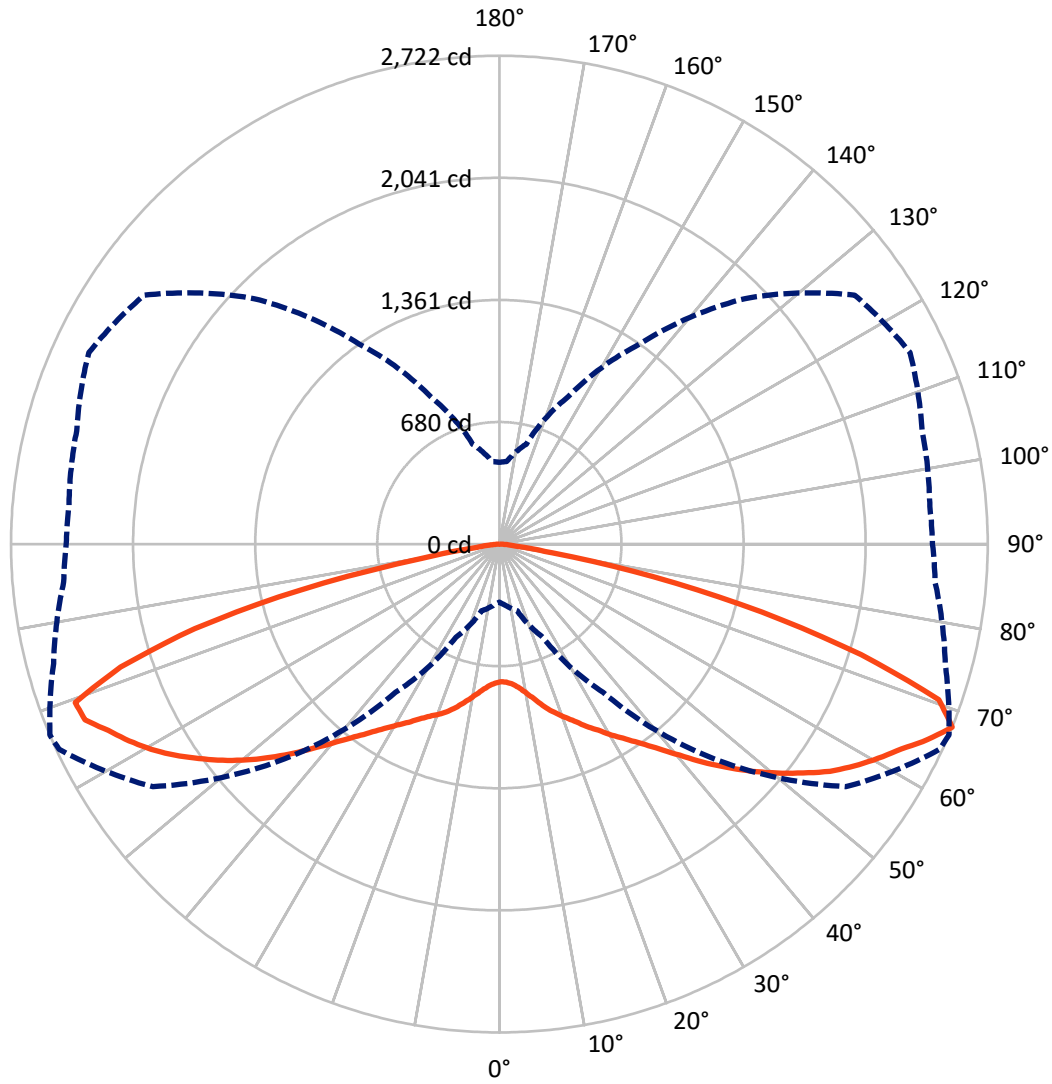
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3742.5	0.0	3742.5
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	3826.1	0.0	3826.1
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	7568.6	0.0	7568.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.2	1.0
10°-20°	254.0	3.4
20°-30°	498.4	6.6
30°-40°	849.1	11.2
40°-50°	1363.5	18.0
50°-60°	1852.7	24.5
60°-70°	1772.2	23.4
70°-80°	842.6	11.1
80°-90°	61.1	0.8
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°	7568.6	100.0
0°-180°	7568.6	100.0

**Coefficient of Utilization**



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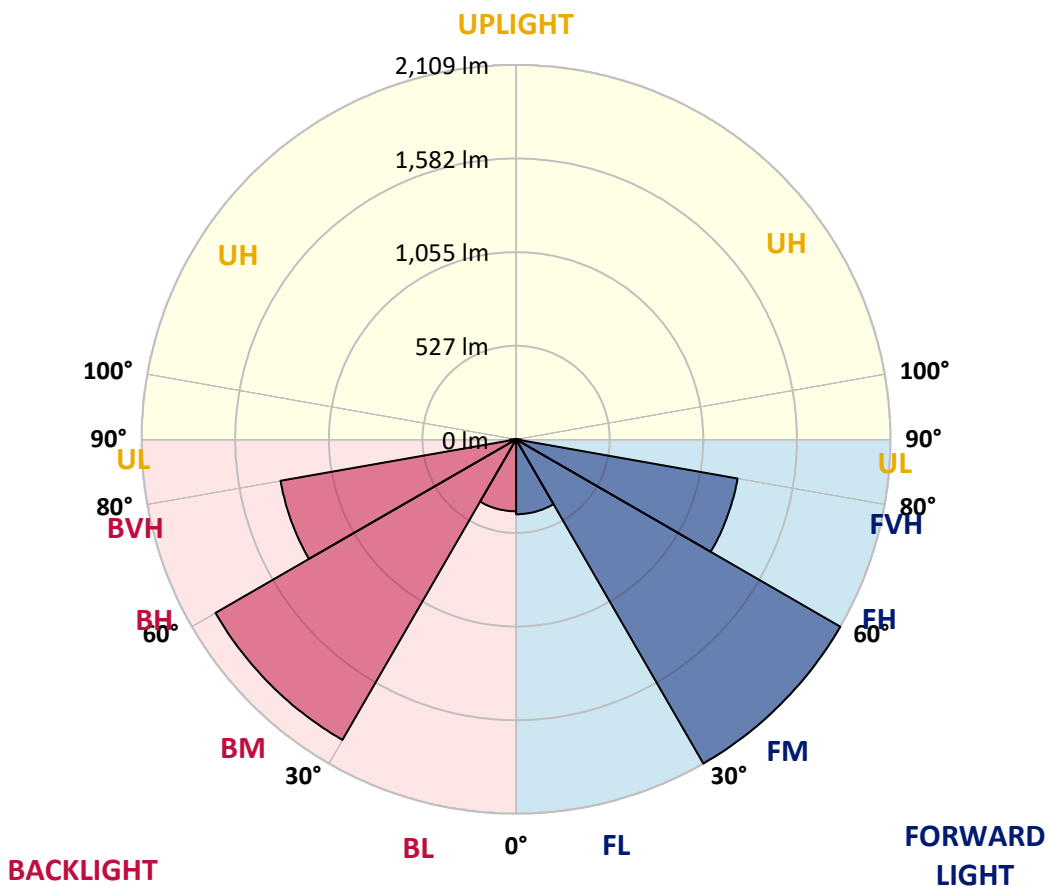
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.0	5.6			
FM (30°-60°)	2109.4	27.9			
FH (60°-80°)	1267.2	16.7			G1/1800
FVH (80°-90°)	27.4	0.4			G1/100
BL (0°-30°)	405.6	5.4	B1/500		
BM (30°-60°)	1955.8	25.8	B2/2500		
BH (60°-80°)	1347.6	17.8	B3/2500		G3/2500
BVH (80°-90°)	33.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4
2.5°	750.6	751.6	753.2	756.3	759.5	764.3	769.0	768.5	770.6	772.2	773.7
5°	746.3	747.4	750.0	754.2	759.0	766.9	776.9	781.1	784.3	790.1	795.4
7.5°	755.3	757.4	761.1	766.9	774.3	784.3	798.0	805.4	810.1	820.7	829.6
10°	767.4	770.1	777.4	788.5	799.6	814.9	832.2	843.3	846.5	860.2	877.0
12.5°	779.0	782.2	794.3	814.3	834.4	854.9	875.5	889.2	890.2	908.7	927.6
15°	797.5	800.1	816.4	842.3	872.8	901.3	926.6	936.1	940.3	953.5	977.2
17.5°	838.0	841.2	862.3	890.2	922.4	952.4	977.7	985.6	985.6	996.7	1016.2
20°	881.8	885.0	912.9	948.7	987.7	1018.3	1037.8	1030.4	1027.8	1031.0	1044.7
22.5°	930.8	936.6	963.5	1005.1	1053.1	1090.5	1100.5	1078.4	1071.0	1063.6	1066.8
25°	993.5	1000.4	1026.7	1071.0	1117.9	1157.5	1163.2	1129.0	1124.8	1098.9	1089.5
27.5°	1065.7	1071.0	1103.7	1147.4	1191.2	1224.4	1230.7	1188.5	1174.3	1138.5	1116.3
30°	1159.0	1163.8	1192.2	1235.5	1273.4	1296.6	1304.5	1246.5	1235.5	1180.6	1146.4
32.5°	1260.8	1262.9	1291.9	1333.5	1367.2	1389.4	1378.3	1310.8	1294.5	1232.8	1185.9
35°	1377.2	1377.2	1414.7	1448.4	1475.3	1481.6	1460.5	1383.6	1364.6	1297.7	1239.1
37.5°	1491.6	1494.8	1529.6	1569.6	1593.3	1592.3	1553.8	1469.5	1447.9	1375.1	1310.3
40°	1615.5	1622.3	1657.1	1701.9	1724.6	1721.4	1662.4	1568.6	1546.4	1460.5	1397.3
42.5°	1729.3	1740.4	1781.0	1826.8	1851.6	1849.5	1787.8	1682.4	1660.8	1563.8	1500.6
45°	1820.0	1831.6	1882.2	1946.0	1985.5	1981.8	1919.6	1800.5	1774.1	1672.4	1602.8
47.5°	1899.6	1911.7	1968.1	2035.6	2098.3	2104.6	2047.7	1919.6	1891.7	1788.9	1710.3
50°	1960.7	1966.5	2029.8	2103.5	2176.3	2211.6	2162.1	2039.2	2005.5	1903.8	1815.2
52.5°	1956.0	1963.9	2041.9	2142.0	2239.5	2297.5	2263.2	2152.0	2119.4	2008.7	1922.2
55°	1859.5	1867.4	1960.2	2106.2	2274.8	2360.2	2356.5	2259.6	2235.8	2115.7	2033.4
57.5°	1718.8	1736.2	1828.4	1986.0	2228.5	2410.3	2425.1	2357.6	2332.8	2220.6	2143.6
60°	1466.8	1490.0	1596.5	1801.0	2079.8	2393.4	2498.3	2440.3	2425.1	2318.1	2243.2
62.5°	1065.7	1082.6	1224.4	1492.7	1859.5	2273.3	2560.0	2525.7	2514.1	2405.6	2333.3
65°	638.3	676.8	790.6	1055.7	1500.0	2046.6	2526.3	2637.5	2625.3	2495.7	2410.3
67.5°	323.1	340.5	385.3	572.4	1008.8	1693.5	2357.1	2707.0	2721.8	2572.6	2437.7
70°	200.3	205.0	217.7	282.5	503.9	1112.6	1927.5	2525.7	2597.9	2560.5	2366.6
72.5°	160.8	161.8	163.9	176.0	241.9	520.2	1218.6	1978.1	2108.3	2391.3	2264.8
75°	133.3	133.9	134.4	138.1	150.7	212.4	593.0	1359.3	1511.6	2032.4	2099.9
77.5°	107.0	104.4	106.5	108.0	111.2	118.6	204.5	725.3	879.7	1334.0	1623.9
80°	69.6	68.5	72.7	74.3	77.5	82.2	109.1	246.1	298.8	485.4	516.5
82.5°	37.4	35.3	44.3	42.7	44.3	48.0	64.3	90.1	101.2	146.5	123.9
85°	11.6	11.6	12.1	14.2	17.4	16.9	27.9	44.3	49.0	62.7	46.4
87.5°	2.1	2.1	2.1	2.1	2.1	2.6	5.8	9.0	12.1	21.6	16.3
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°	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4	766.4
2.5°	776.9	772.2	774.8	776.4	775.9	774.8	769.5	768.5	765.8	761.6	760.6
5°	800.1	794.8	795.4	793.8	788.5	781.6	770.1	764.3	759.5	754.2	753.7
7.5°	836.5	830.7	829.1	821.7	806.9	791.1	772.7	762.1	754.2	747.4	746.3
10°	882.8	877.0	871.8	854.4	830.1	809.1	784.8	769.5	757.9	749.5	747.9
12.5°	934.5	929.8	916.6	891.3	862.3	837.5	812.7	793.8	776.9	764.3	762.7
15°	991.9	981.4	961.4	928.7	901.3	881.3	851.2	825.4	798.5	781.6	778.0
17.5°	1032.0	1023.0	999.3	967.7	946.1	928.7	893.4	856.5	820.1	795.4	790.1
20°	1060.5	1051.0	1024.1	1000.9	994.1	979.3	938.2	895.5	853.3	822.8	815.9
22.5°	1081.0	1071.0	1043.6	1032.0	1041.5	1038.9	998.8	950.3	900.2	863.9	855.4
25°	1100.5	1091.0	1066.8	1071.0	1096.3	1104.2	1061.0	1004.6	947.7	905.0	895.0
27.5°	1119.0	1106.9	1095.8	1119.0	1154.8	1169.6	1123.7	1059.9	998.3	954.5	946.6
30°	1147.4	1133.2	1131.6	1165.4	1222.3	1234.9	1184.3	1120.6	1059.4	1015.1	1005.1
32.5°	1183.3	1170.1	1171.2	1221.8	1287.6	1298.2	1255.0	1195.4	1134.3	1090.0	1076.3
35°	1231.8	1215.4	1224.4	1286.6	1353.0	1372.5	1337.7	1288.2	1228.6	1183.3	1168.0
37.5°	1298.7	1275.0	1293.4	1358.8	1425.7	1454.7	1427.8	1390.9	1331.9	1286.1	1271.8
40°	1384.1	1364.6	1372.0	1444.2	1513.2	1548.0	1531.1	1494.8	1436.3	1388.3	1372.0
42.5°	1485.3	1465.8	1463.2	1540.1	1609.2	1661.9	1645.5	1612.3	1551.7	1496.9	1481.1
45°	1584.4	1566.5	1570.1	1648.7	1726.2	1783.6	1767.3	1728.3	1662.4	1599.1	1586.5
47.5°	1687.7	1672.9	1676.1	1759.4	1844.8	1902.2	1881.6	1834.2	1757.3	1689.8	1674.5
50°	1793.6	1776.8	1781.5	1869.0	1961.2	2015.5	1983.9	1913.8	1828.9	1763.1	1749.9
52.5°	1899.0	1879.0	1891.1	1973.9	2069.3	2112.5	2054.0	1969.1	1886.9	1821.6	1806.8
55°	2020.3	1999.2	1986.0	2074.6	2168.9	2186.8	2106.7	2007.6	1910.1	1835.8	1826.8
57.5°	2131.0	2113.0	2088.3	2176.8	2246.4	2233.2	2147.3	1997.1	1853.7	1758.3	1745.7
60°	2230.0	2214.8	2193.1	2268.5	2300.1	2270.6	2114.6	1872.2	1714.6	1614.9	1609.2
62.5°	2321.2	2304.9	2284.9	2349.2	2344.9	2276.4	1966.0	1680.3	1469.5	1362.5	1353.0
65°	2393.4	2378.7	2372.9	2423.5	2416.6	2163.1	1734.6	1366.2	1073.6	952.9	949.3
67.5°	2414.0	2408.2	2439.3	2525.2	2418.2	1935.4	1360.4	906.0	576.6	462.2	455.4
70°	2337.0	2336.5	2425.6	2548.4	2198.9	1478.4	802.7	408.5	289.9	257.2	253.0
72.5°	2236.9	2235.3	2305.9	2198.4	1630.8	809.1	337.9	218.7	181.3	172.4	172.4
75°	2072.4	2068.2	2121.5	1672.4	917.1	304.6	179.2	150.2	142.3	140.7	140.7
77.5°	1689.3	1654.0	1570.1	1033.6	319.9	149.7	118.6	118.1	113.3	112.8	112.8
80°	555.5	555.5	645.7	394.2	141.3	92.2	83.8	88.0	83.3	80.1	79.6
82.5°	90.7	124.9	177.6	112.8	76.4	57.5	51.7	54.8	57.5	45.9	45.9
85°	35.8	46.9	68.5	52.7	35.3	23.2	24.8	27.4	24.2	21.1	20.6
87.5°	13.7	16.9	24.2	12.6	7.4	4.2	2.6	2.6	2.1	2.1	2.1
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)