

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: P631428

Luminaire Tested: GWS-SA1F-760-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631428  
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-SA1F-760-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

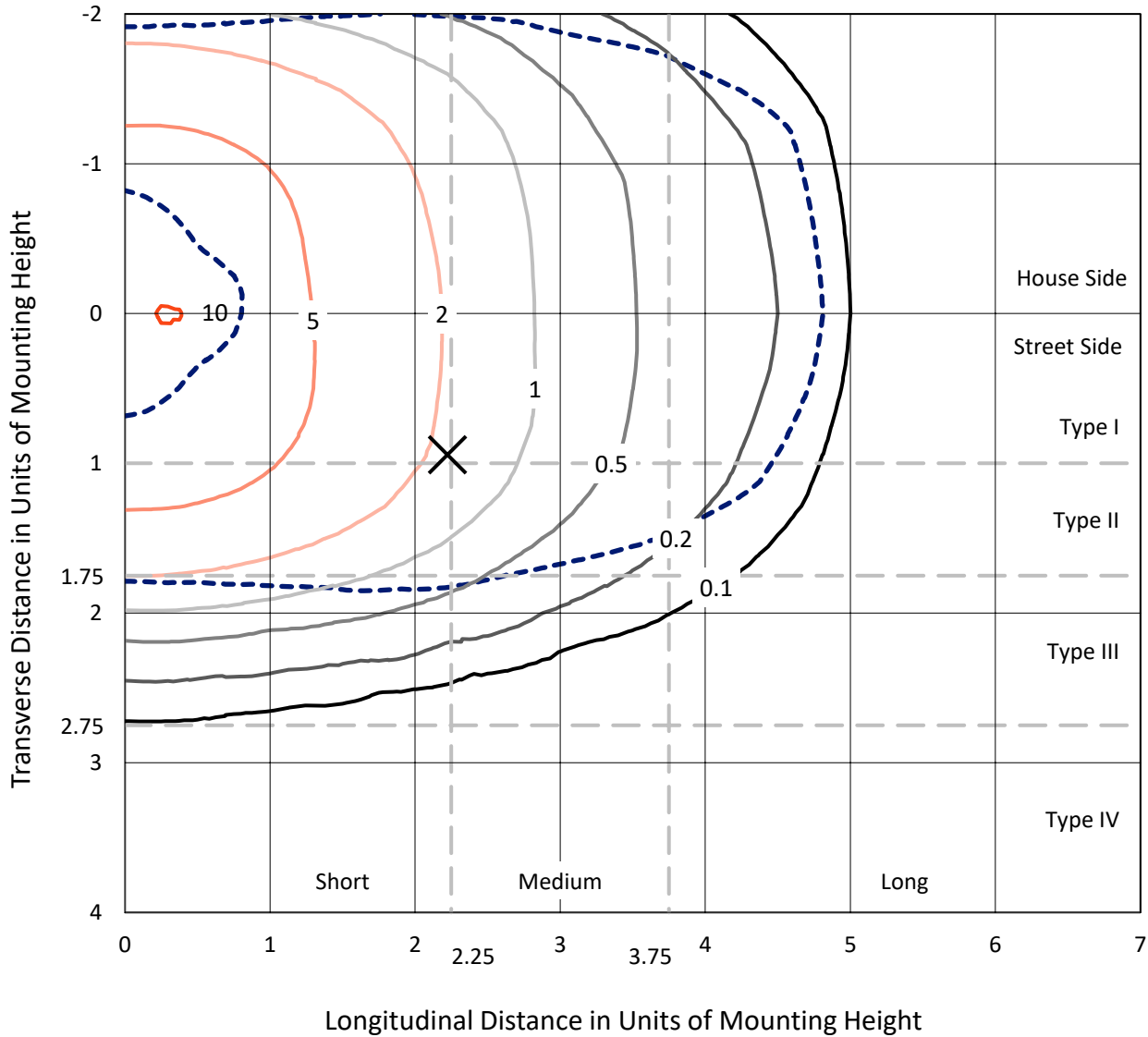
Lumens per Lamp: N/A  
Luminaire Lumens: 8750 lumens  
Efficiency: N/A  
Efficacy: 130.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

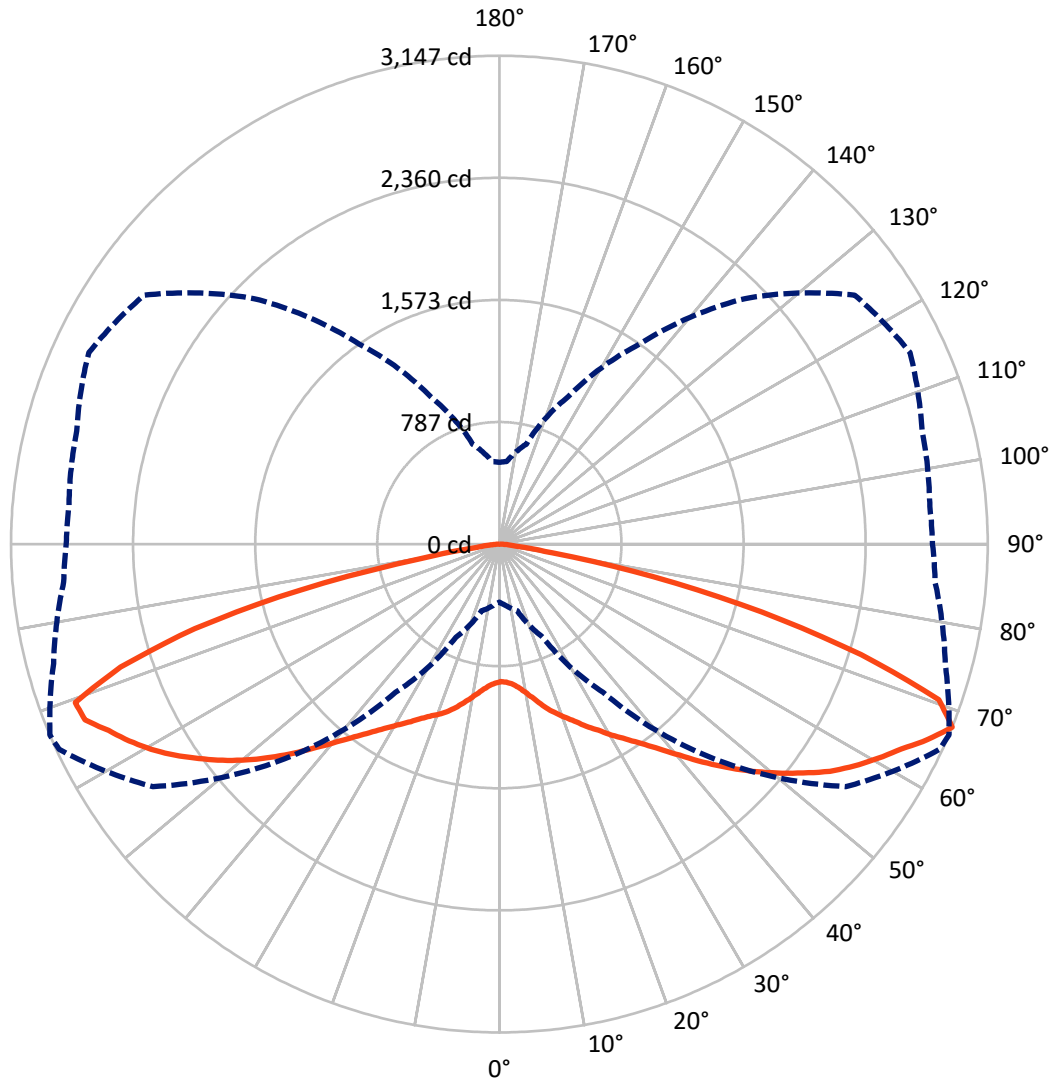
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.2 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	4326.7	0.0	4326.7
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	4423.3	0.0	4423.3
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	8750.0	0.0	8750.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.9	1.0
10°-20°	293.7	3.4
20°-30°	576.2	6.6
30°-40°	981.6	11.2
40°-50°	1576.3	18.0
50°-60°	2141.8	24.5
60°-70°	2048.8	23.4
70°-80°	974.1	11.1
80°-90°	70.6	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°	8750.0	100.0
0°-180°	8750.0	100.0

**Coefficient of Utilization**



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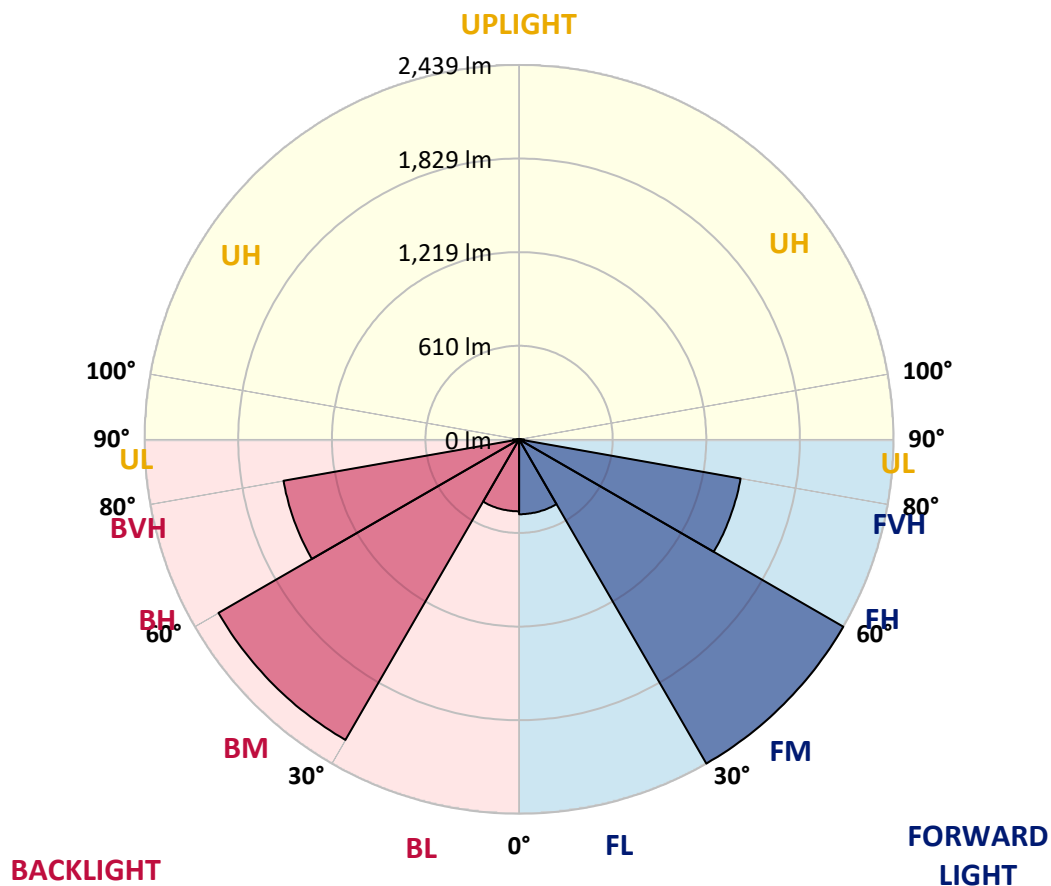
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	487.9	5.6			
FM (30°-60°)	2438.7	27.9			
FH (60°-80°)	1465.0	16.7			G1/1800
FVH (80°-90°)	31.7	0.4			G1/100
BL (0°-30°)	468.9	5.4	B1/500		
BM (30°-60°)	2261.0	25.8	B2/2500		
BH (60°-80°)	1557.9	17.8	B3/2500		G3/2500
BVH (80°-90°)	38.9	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°	886.0	886.0	886.0	886.0	886.0	886.0	886.0	886.0	886.0	886.0	886.0
2.5°	867.7	868.9	870.8	874.4	878.1	883.5	889.0	888.4	890.9	892.7	894.5
5°	862.8	864.0	867.1	872.0	877.5	886.6	898.2	903.0	906.7	913.4	919.5
7.5°	873.2	875.6	879.9	886.6	895.1	906.7	922.5	931.1	936.6	948.7	959.1
10°	887.2	890.3	898.8	911.6	924.4	942.0	962.2	975.0	978.6	994.4	1013.9
12.5°	900.6	904.3	918.3	941.4	964.6	988.4	1012.1	1028.0	1029.2	1050.5	1072.4
15°	921.9	925.0	943.9	973.7	1009.1	1042.0	1071.2	1082.2	1087.1	1102.3	1129.7
17.5°	968.9	972.5	996.9	1029.2	1066.4	1101.1	1130.3	1139.5	1139.5	1152.3	1174.8
20°	1019.4	1023.1	1055.4	1096.8	1141.9	1177.3	1199.8	1191.3	1188.2	1191.9	1207.7
22.5°	1076.1	1082.8	1113.9	1162.0	1217.5	1260.7	1272.3	1246.7	1238.2	1229.7	1233.3
25°	1148.6	1156.5	1187.0	1238.2	1292.4	1338.1	1344.8	1305.2	1300.3	1270.5	1259.5
27.5°	1232.1	1238.2	1276.0	1326.5	1377.1	1415.5	1422.8	1374.1	1357.6	1316.2	1290.6
30°	1339.9	1345.4	1378.3	1428.3	1472.2	1499.0	1508.1	1441.1	1428.3	1364.9	1325.3
32.5°	1457.6	1460.0	1493.5	1541.6	1580.6	1606.2	1593.4	1515.4	1496.5	1425.3	1371.0
35°	1592.2	1592.2	1635.5	1674.5	1705.6	1712.9	1688.5	1599.5	1577.6	1500.2	1432.6
37.5°	1724.4	1728.1	1768.3	1814.6	1842.0	1840.8	1796.3	1698.9	1673.9	1589.8	1514.8
40°	1867.6	1875.6	1915.8	1967.6	1993.8	1990.1	1921.9	1813.4	1787.8	1688.5	1615.4
42.5°	1999.3	2012.1	2059.0	2112.0	2140.6	2138.2	2066.9	1945.0	1920.0	1807.9	1734.8
45°	2104.1	2117.5	2176.0	2249.7	2295.4	2291.1	2219.2	2081.5	2051.1	1933.4	1853.0
47.5°	2196.1	2210.1	2275.3	2353.3	2425.8	2433.1	2367.3	2219.2	2186.9	2068.1	1977.3
50°	2266.8	2273.5	2346.6	2431.9	2516.0	2556.8	2499.5	2357.6	2318.6	2201.0	2098.6
52.5°	2261.3	2270.4	2360.6	2476.4	2589.1	2656.1	2616.5	2488.0	2450.2	2322.2	2222.3
55°	2149.8	2158.9	2266.2	2434.9	2629.9	2728.6	2724.4	2612.3	2584.8	2445.9	2350.8
57.5°	1987.1	2007.2	2113.8	2296.0	2576.3	2786.5	2803.6	2725.6	2697.0	2567.2	2478.2
60°	1695.8	1722.6	1845.7	2082.1	2404.5	2767.0	2888.3	2821.3	2803.6	2679.9	2593.4
62.5°	1232.1	1251.6	1415.5	1725.7	2149.8	2628.1	2959.6	2920.0	2906.6	2781.0	2697.6
65°	737.9	782.4	914.0	1220.5	1734.2	2366.1	2920.6	3049.2	3035.1	2885.2	2786.5
67.5°	373.5	393.6	445.4	661.7	1166.3	1957.8	2725.0	3129.6	3146.7	2974.2	2818.2
70°	231.6	237.0	251.7	326.6	582.5	1286.3	2228.4	2920.0	3003.5	2960.2	2736.0
72.5°	185.8	187.1	189.5	203.5	279.7	601.4	1408.8	2286.9	2437.4	2764.6	2618.4
75°	154.2	154.8	155.4	159.6	174.3	245.6	685.5	1571.5	1747.6	2349.6	2427.6
77.5°	123.7	120.7	123.1	124.9	128.6	137.1	236.4	838.5	1017.0	1542.2	1877.4
80°	80.4	79.2	84.1	85.9	89.6	95.1	126.1	284.6	345.5	561.2	597.2
82.5°	43.3	40.8	51.2	49.4	51.2	55.5	74.3	104.2	117.0	169.4	143.2
85°	13.4	13.4	14.0	16.5	20.1	19.5	32.3	51.2	56.7	72.5	53.6
87.5°	2.4	2.4	2.4	2.4	2.4	3.0	6.7	10.4	14.0	25.0	18.9
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°	886.0	886.0	886.0	886.0	886.0	886.0	886.0	886.0	886.0	886.0	886.0
2.5°	898.2	892.7	895.7	897.6	897.0	895.7	889.6	888.4	885.4	880.5	879.3
5°	925.0	918.9	919.5	917.7	911.6	903.7	890.3	883.5	878.1	872.0	871.4
7.5°	967.0	960.3	958.5	950.0	932.9	914.6	893.3	881.1	872.0	864.0	862.8
10°	1020.7	1013.9	1007.9	987.7	959.7	935.3	907.3	889.6	876.2	866.5	864.7
12.5°	1080.4	1074.9	1059.6	1030.4	996.9	968.2	939.6	917.7	898.2	883.5	881.7
15°	1146.8	1134.6	1111.4	1073.7	1042.0	1018.8	984.1	954.2	923.2	903.7	899.4
17.5°	1193.1	1182.7	1155.3	1118.8	1093.8	1073.7	1032.8	990.2	948.1	919.5	913.4
20°	1226.0	1215.0	1184.0	1157.1	1149.2	1132.2	1084.6	1035.3	986.5	951.2	943.3
22.5°	1249.8	1238.2	1206.5	1193.1	1204.1	1201.0	1154.7	1098.6	1040.8	998.7	989.0
25°	1272.3	1261.3	1233.3	1238.2	1267.4	1276.6	1226.6	1161.4	1095.6	1046.2	1034.7
27.5°	1293.6	1279.6	1266.8	1293.6	1335.1	1352.1	1299.1	1225.4	1154.1	1103.5	1094.4
30°	1326.5	1310.1	1308.3	1347.3	1413.1	1427.7	1369.2	1295.5	1224.8	1173.6	1162.0
32.5°	1368.0	1352.7	1354.0	1412.5	1488.6	1500.8	1450.8	1382.0	1311.3	1260.1	1244.3
35°	1424.0	1405.1	1415.5	1487.4	1564.2	1586.7	1546.5	1489.2	1420.4	1368.0	1350.3
37.5°	1501.4	1474.0	1495.3	1570.9	1648.3	1681.8	1650.7	1608.1	1539.8	1486.8	1470.3
40°	1600.1	1577.6	1586.1	1669.6	1749.4	1789.6	1770.1	1728.1	1660.5	1605.0	1586.1
42.5°	1717.1	1694.6	1691.5	1780.5	1860.3	1921.3	1902.4	1864.0	1793.9	1730.5	1712.3
45°	1831.7	1811.0	1815.2	1906.0	1995.6	2062.0	2043.1	1998.0	1921.9	1848.7	1834.1
47.5°	1951.1	1934.1	1937.7	2034.0	2132.7	2199.1	2175.4	2120.5	2031.6	1953.6	1935.9
50°	2073.6	2054.1	2059.6	2160.7	2267.4	2330.1	2293.6	2212.5	2114.4	2038.3	2023.0
52.5°	2195.5	2172.3	2186.3	2282.0	2392.3	2442.3	2374.6	2276.5	2181.5	2105.9	2088.8
55°	2335.6	2311.2	2296.0	2398.4	2507.5	2528.2	2435.5	2321.0	2208.3	2122.3	2112.0
57.5°	2463.6	2442.9	2414.2	2516.6	2597.0	2581.8	2482.5	2308.8	2143.1	2032.8	2018.1
60°	2578.1	2560.5	2535.5	2622.6	2659.2	2625.1	2444.7	2164.4	1982.2	1867.0	1860.3
62.5°	2683.6	2664.7	2641.5	2715.8	2711.0	2631.8	2272.9	1942.6	1698.9	1575.2	1564.2
65°	2767.0	2750.0	2743.3	2801.8	2793.8	2500.7	2005.4	1579.4	1241.2	1101.7	1097.4
67.5°	2790.8	2784.1	2820.0	2919.4	2795.7	2237.5	1572.7	1047.5	666.6	534.4	526.5
70°	2701.8	2701.2	2804.2	2946.2	2542.2	1709.2	928.0	472.2	335.1	297.4	292.5
72.5°	2586.1	2584.2	2665.9	2541.6	1885.3	935.3	390.6	252.9	209.6	199.3	199.3
75°	2395.9	2391.1	2452.6	1933.4	1060.3	352.2	207.2	173.7	164.5	162.7	162.7
77.5°	1952.9	1912.1	1815.2	1194.9	369.9	173.1	137.1	136.5	131.0	130.4	130.4
80°	642.2	642.2	746.4	455.8	163.3	106.6	96.9	101.8	96.3	92.6	92.0
82.5°	104.8	144.4	205.3	130.4	88.4	66.4	59.7	63.4	66.4	53.0	53.0
85°	41.4	54.2	79.2	60.9	40.8	26.8	28.6	31.7	28.0	24.4	23.8
87.5°	15.8	19.5	28.0	14.6	8.5	4.9	3.0	3.0	2.4	2.4	2.4
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)