

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: P631263

Luminaire Tested: GWS-SA1F-735-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631263
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-735-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8554 lumens
Efficiency: N/A
Efficacy: 127.3 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

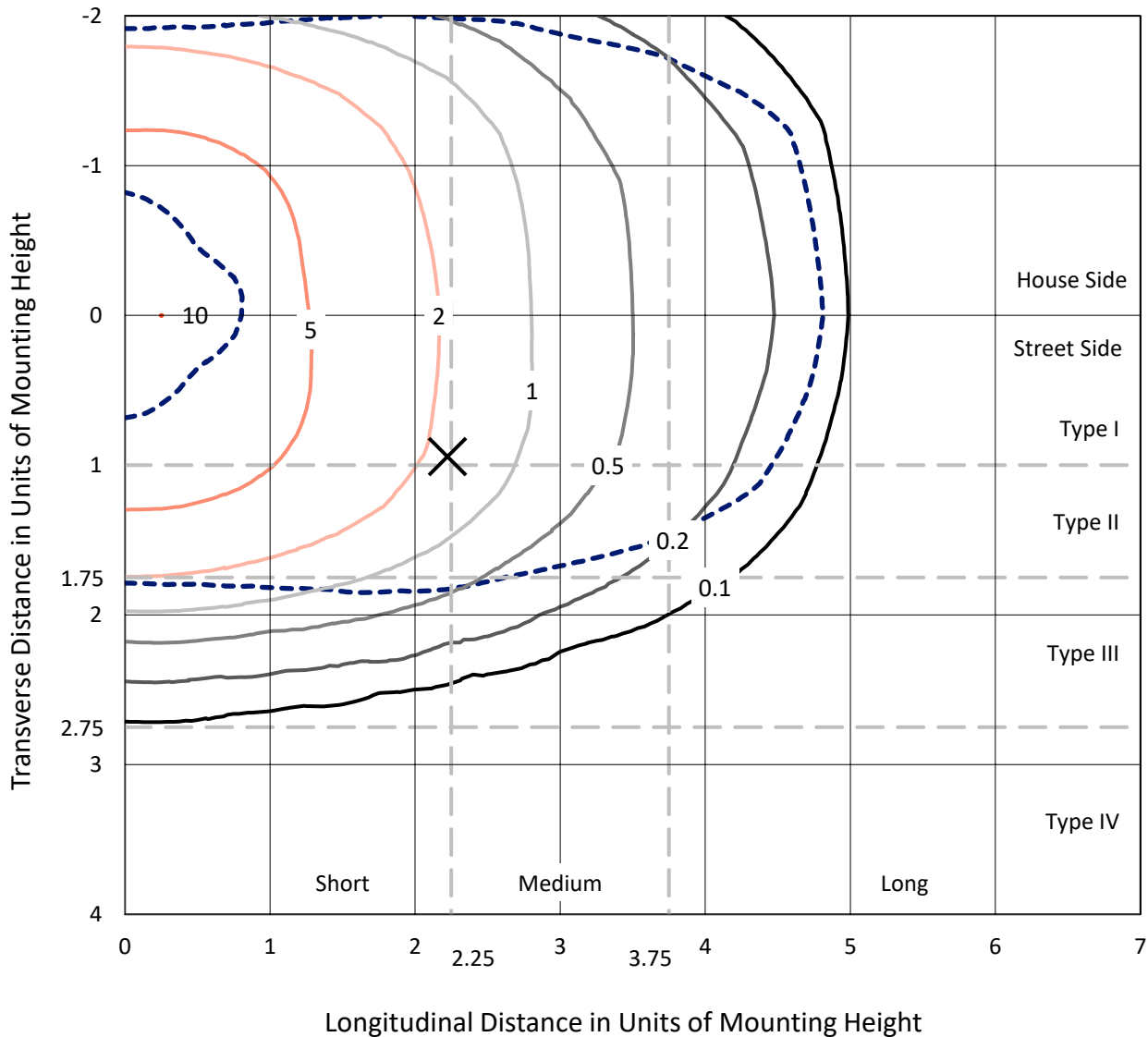
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631263
 CATALOG NUMBER: GWS-SA1F-735-U-RW-W

Iso-Footcandle Lines of Horizontal Illumination

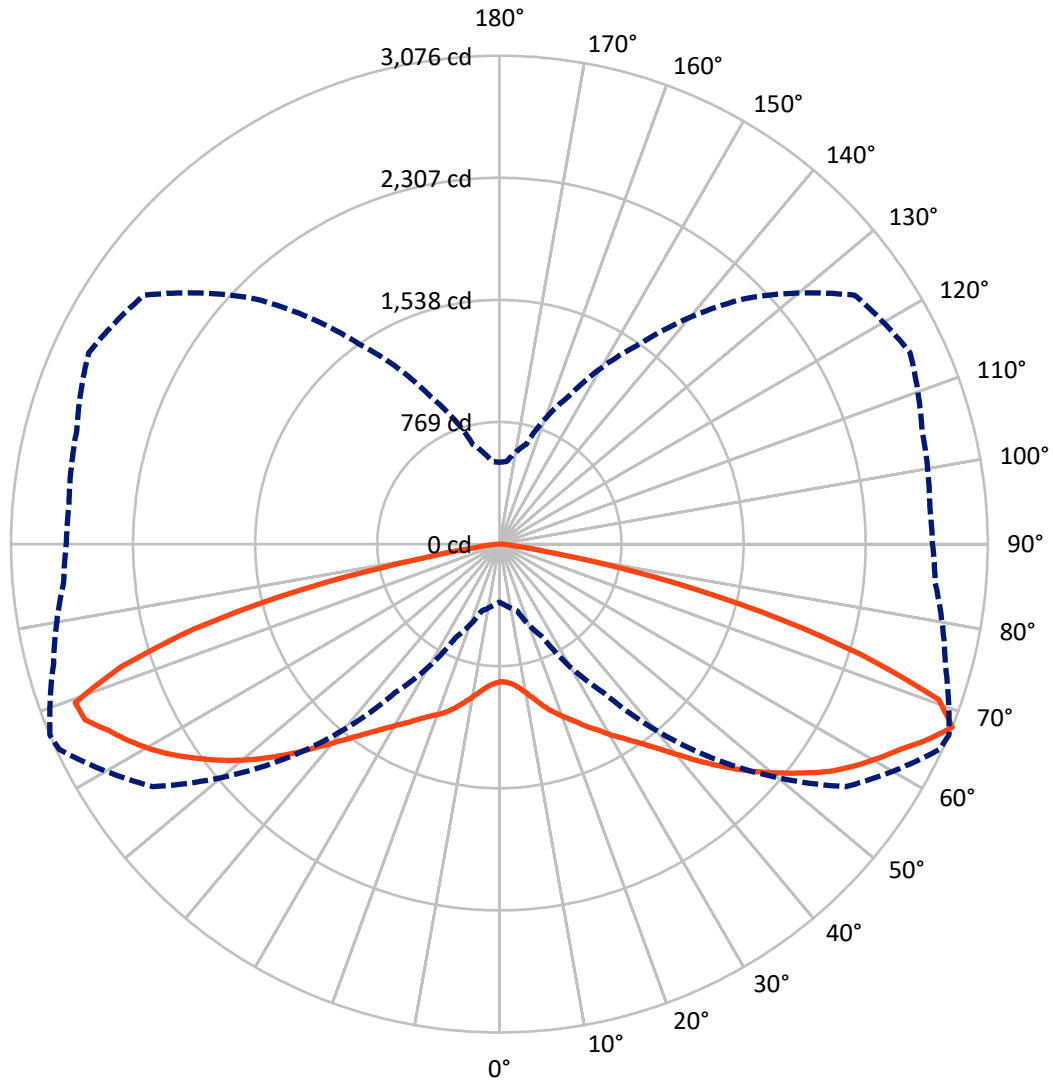
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P631263
CATALOG NUMBER: GWS-SA1F-735-U-RW-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P631263

CATALOG NUMBER: GWS-SA1F-735-U-RW-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4229.8	0.0	4229.8
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	4324.2	0.0	4324.2
	% Fixture	50.6	0.0	50.6
Total	Lumens	8554.0	0.0	8554.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	1.0
10°-20°	287.1	3.4
20°-30°	563.3	6.6
30°-40°	959.6	11.2
40°-50°	1541.0	18.0
50°-60°	2093.9	24.5
60°-70°	2002.9	23.4
70°-80°	952.3	11.1
80°-90°	69.0	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°	8554.0	100.0
0°-180°	8554.0	100.0

Coefficient of Utilization



REPORT NUMBER: P631263

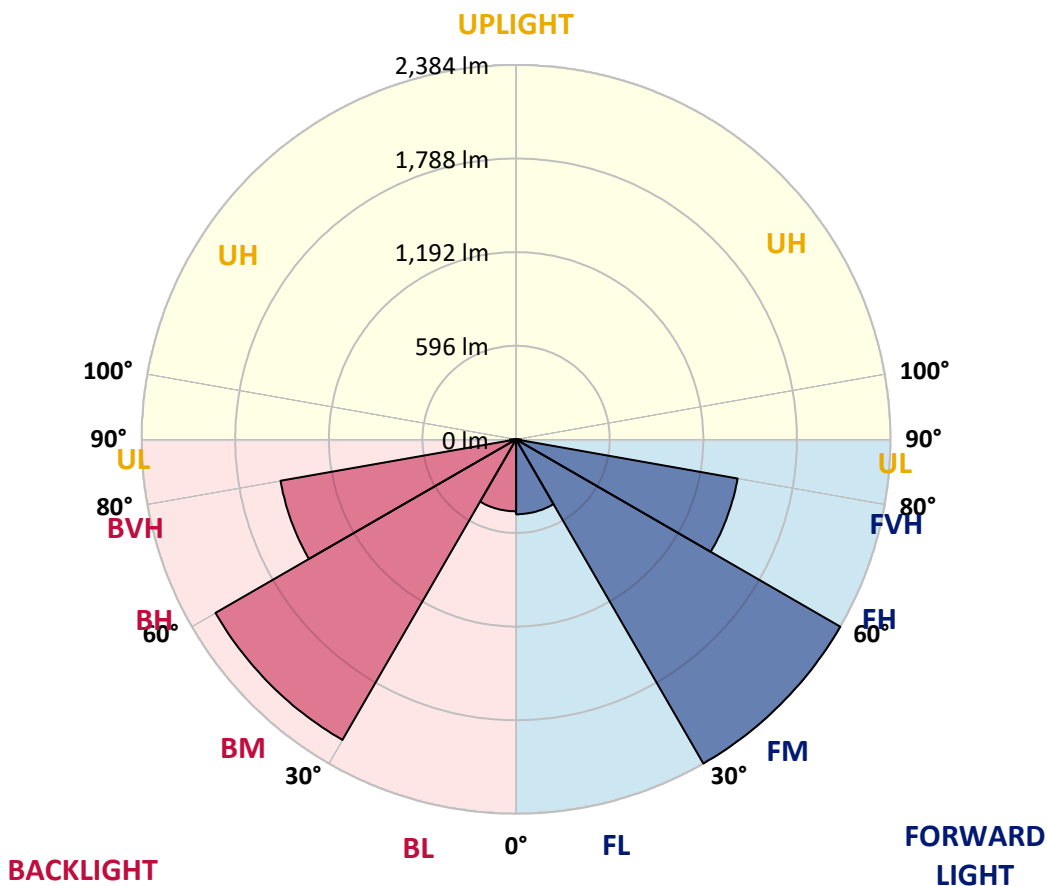
CATALOG NUMBER: GWS-SA1F-735-U-RW-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	476.9	5.6			
FM (30°-60°)	2384.1	27.9			
FH (60°-80°)	1432.2	16.7			G1/1800
FVH (80°-90°)	31.0	0.4			G1/100
BL (0°-30°)	458.4	5.4	B1/500		
BM (30°-60°)	2210.4	25.8	B2/2500		
BH (60°-80°)	1523.0	17.8	B3/2500		G3/2500
BVH (80°-90°)	38.0	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





REPORT NUMBER: P631263
 CATALOG NUMBER: GWS-SA1F-735-U-RW-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1
2.5°	848.3	849.5	851.2	854.8	858.4	863.8	869.1	868.5	870.9	872.7	874.5
5°	843.5	844.7	847.7	852.4	857.8	866.7	878.1	882.8	886.4	892.9	898.9
7.5°	853.6	856.0	860.2	866.7	875.1	886.4	901.9	910.2	915.6	927.5	937.6
10°	867.3	870.3	878.6	891.2	903.7	920.9	940.6	953.1	956.7	972.2	991.2
12.5°	880.4	884.0	897.7	920.3	943.0	966.2	989.4	1004.9	1006.1	1027.0	1048.4
15°	901.3	904.3	922.7	951.9	986.5	1018.6	1047.2	1058.0	1062.7	1077.6	1104.4
17.5°	947.2	950.7	974.6	1006.1	1042.5	1076.4	1105.0	1113.9	1113.9	1126.5	1148.5
20°	996.6	1000.2	1031.7	1072.3	1116.3	1150.9	1172.9	1164.6	1161.6	1165.2	1180.7
22.5°	1052.0	1058.5	1088.9	1136.0	1190.2	1232.5	1243.8	1218.8	1210.5	1202.1	1205.7
25°	1122.9	1130.6	1160.4	1210.5	1263.5	1308.1	1314.7	1276.0	1271.2	1242.0	1231.3
27.5°	1204.5	1210.5	1247.4	1296.8	1346.3	1383.8	1390.9	1343.3	1327.2	1286.7	1261.7
30°	1309.9	1315.3	1347.5	1396.3	1439.2	1465.4	1474.3	1408.8	1396.3	1334.4	1295.6
32.5°	1424.9	1427.3	1460.0	1507.1	1545.2	1570.3	1557.7	1481.5	1463.0	1393.3	1340.3
35°	1556.6	1556.6	1598.8	1637.0	1667.3	1674.5	1650.7	1563.7	1542.3	1466.6	1400.5
37.5°	1685.8	1689.4	1728.7	1774.0	1800.8	1799.6	1756.1	1660.8	1636.4	1554.2	1480.9
40°	1825.8	1833.5	1872.9	1923.5	1949.1	1945.5	1878.8	1772.8	1747.8	1650.7	1579.2
42.5°	1954.5	1967.0	2012.9	2064.7	2092.7	2090.3	2020.6	1901.5	1877.0	1767.4	1695.9
45°	2056.9	2070.0	2127.2	2199.3	2244.0	2239.8	2169.5	2034.9	2005.1	1890.1	1811.5
47.5°	2146.9	2160.6	2224.3	2300.6	2371.5	2378.6	2314.3	2169.5	2137.9	2021.8	1933.0
50°	2216.0	2222.5	2294.0	2377.4	2459.6	2499.5	2443.5	2304.7	2266.6	2151.6	2051.6
52.5°	2210.6	2219.6	2307.7	2420.9	2531.1	2596.6	2557.9	2432.2	2395.3	2270.2	2172.5
55°	2101.6	2110.5	2215.4	2380.4	2571.0	2667.5	2663.4	2553.7	2526.9	2391.1	2298.2
57.5°	1942.6	1962.2	2066.5	2244.6	2518.6	2724.1	2740.8	2664.5	2636.5	2509.7	2422.7
60°	1657.8	1684.0	1804.4	2035.5	2350.6	2705.0	2823.6	2758.1	2740.8	2619.9	2535.3
62.5°	1204.5	1223.6	1383.8	1687.0	2101.6	2569.2	2893.3	2854.6	2841.5	2718.8	2637.1
65°	721.4	764.9	893.5	1193.2	1695.3	2313.1	2855.2	2980.9	2967.2	2820.6	2724.1
67.5°	365.2	384.8	435.5	646.9	1140.2	1914.0	2663.9	3059.5	3076.2	2907.6	2755.1
70°	226.4	231.7	246.0	319.3	569.5	1257.5	2178.5	2854.6	2936.2	2893.9	2674.7
72.5°	181.7	182.9	185.3	199.0	273.4	588.0	1377.2	2235.6	2382.8	2702.7	2559.7
75°	150.7	151.3	151.9	156.1	170.4	240.1	670.2	1536.3	1708.5	2297.0	2373.2
77.5°	120.9	117.9	120.3	122.1	125.7	134.0	231.1	819.7	994.2	1507.7	1835.3
80°	78.6	77.4	82.2	84.0	87.6	92.9	123.3	278.2	337.8	548.6	583.8
82.5°	42.3	39.9	50.0	48.3	50.0	54.2	72.7	101.9	114.4	165.6	140.0
85°	13.1	13.1	13.7	16.1	19.7	19.1	31.6	50.0	55.4	70.9	52.4
87.5°	2.4	2.4	2.4	2.4	2.4	3.0	6.6	10.1	13.7	24.4	18.5
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: P631263
 CATALOG NUMBER: GWS-SA1F-735-U-RW-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1	866.1
2.5°	878.1	872.7	875.7	877.5	876.9	875.7	869.7	868.5	865.5	860.8	859.6
5°	904.3	898.3	898.9	897.1	891.2	883.4	870.3	863.8	858.4	852.4	851.8
7.5°	945.4	938.8	937.0	928.7	912.0	894.1	873.3	861.4	852.4	844.7	843.5
10°	997.8	991.2	985.3	965.6	938.2	914.4	887.0	869.7	856.6	847.1	845.3
12.5°	1056.2	1050.8	1035.9	1007.3	974.6	946.6	918.6	897.1	878.1	863.8	862.0
15°	1121.1	1109.2	1086.5	1049.6	1018.6	996.0	962.0	932.9	902.5	883.4	879.2
17.5°	1166.4	1156.2	1129.4	1093.7	1069.3	1049.6	1009.7	968.0	926.9	898.9	892.9
20°	1198.5	1187.8	1157.4	1131.2	1123.5	1106.8	1060.3	1012.1	964.4	929.9	922.1
22.5°	1221.8	1210.5	1179.5	1166.4	1177.1	1174.1	1128.8	1074.0	1017.4	976.3	966.8
25°	1243.8	1233.1	1205.7	1210.5	1239.0	1248.0	1199.1	1135.4	1071.1	1022.8	1011.5
27.5°	1264.7	1251.0	1238.4	1264.7	1305.2	1321.8	1270.0	1197.9	1128.2	1078.8	1069.9
30°	1296.8	1280.7	1279.0	1317.1	1381.4	1395.7	1338.5	1266.4	1197.3	1147.3	1136.0
32.5°	1337.3	1322.4	1323.6	1380.8	1455.3	1467.2	1418.3	1351.0	1281.9	1231.9	1216.4
35°	1392.1	1373.7	1383.8	1454.1	1529.1	1551.2	1511.9	1455.9	1388.6	1337.3	1320.1
37.5°	1467.8	1441.0	1461.8	1535.7	1611.4	1644.1	1613.7	1572.0	1505.3	1453.5	1437.4
40°	1564.3	1542.3	1550.6	1632.2	1710.2	1749.6	1730.5	1689.4	1623.3	1569.1	1550.6
42.5°	1678.7	1656.6	1653.6	1740.6	1818.7	1878.2	1859.8	1822.2	1753.7	1691.8	1673.9
45°	1790.7	1770.4	1774.6	1863.3	1950.9	2015.8	1997.4	1953.3	1878.8	1807.3	1793.0
47.5°	1907.4	1890.7	1894.3	1988.4	2084.9	2149.9	2126.6	2073.0	1986.0	1909.8	1892.5
50°	2027.1	2008.1	2013.4	2112.3	2216.6	2277.9	2242.2	2163.0	2067.1	1992.6	1977.7
52.5°	2146.3	2123.7	2137.4	2230.9	2338.7	2387.5	2321.4	2225.5	2132.6	2058.7	2042.0
55°	2283.3	2259.5	2244.6	2344.7	2451.3	2471.5	2381.0	2269.0	2158.8	2074.8	2064.7
57.5°	2408.4	2388.1	2360.1	2460.2	2538.9	2524.0	2426.9	2257.1	2095.1	1987.2	1972.9
60°	2520.4	2503.1	2478.7	2563.9	2599.6	2566.3	2389.9	2115.9	1937.8	1825.2	1818.7
62.5°	2623.4	2605.0	2582.3	2655.0	2650.2	2572.8	2221.9	1899.1	1660.8	1539.9	1529.1
65°	2705.0	2688.4	2681.8	2739.0	2731.3	2444.7	1960.4	1544.0	1213.4	1077.0	1072.8
67.5°	2728.3	2721.7	2756.9	2854.0	2733.0	2187.4	1537.5	1024.0	651.7	522.4	514.7
70°	2641.3	2640.7	2741.4	2880.2	2485.2	1670.9	907.2	461.7	327.6	290.7	285.9
72.5°	2528.1	2526.3	2606.2	2484.6	1843.1	914.4	381.8	247.2	204.9	194.8	194.8
75°	2342.3	2337.5	2397.7	1890.1	1036.5	344.3	202.5	169.8	160.8	159.1	159.1
77.5°	1909.2	1869.3	1774.6	1168.2	361.6	169.2	134.0	133.4	128.1	127.5	127.5
80°	627.9	627.9	729.7	445.6	159.6	104.2	94.7	99.5	94.1	90.5	89.9
82.5°	102.5	141.2	200.7	127.5	86.4	64.9	58.4	62.0	64.9	51.8	51.8
85°	40.5	53.0	77.4	59.6	39.9	26.2	28.0	31.0	27.4	23.8	23.2
87.5°	15.5	19.1	27.4	14.3	8.3	4.8	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)