

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: P631781

Luminaire Tested: GWS-SA2B-735-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-735-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6753.2 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

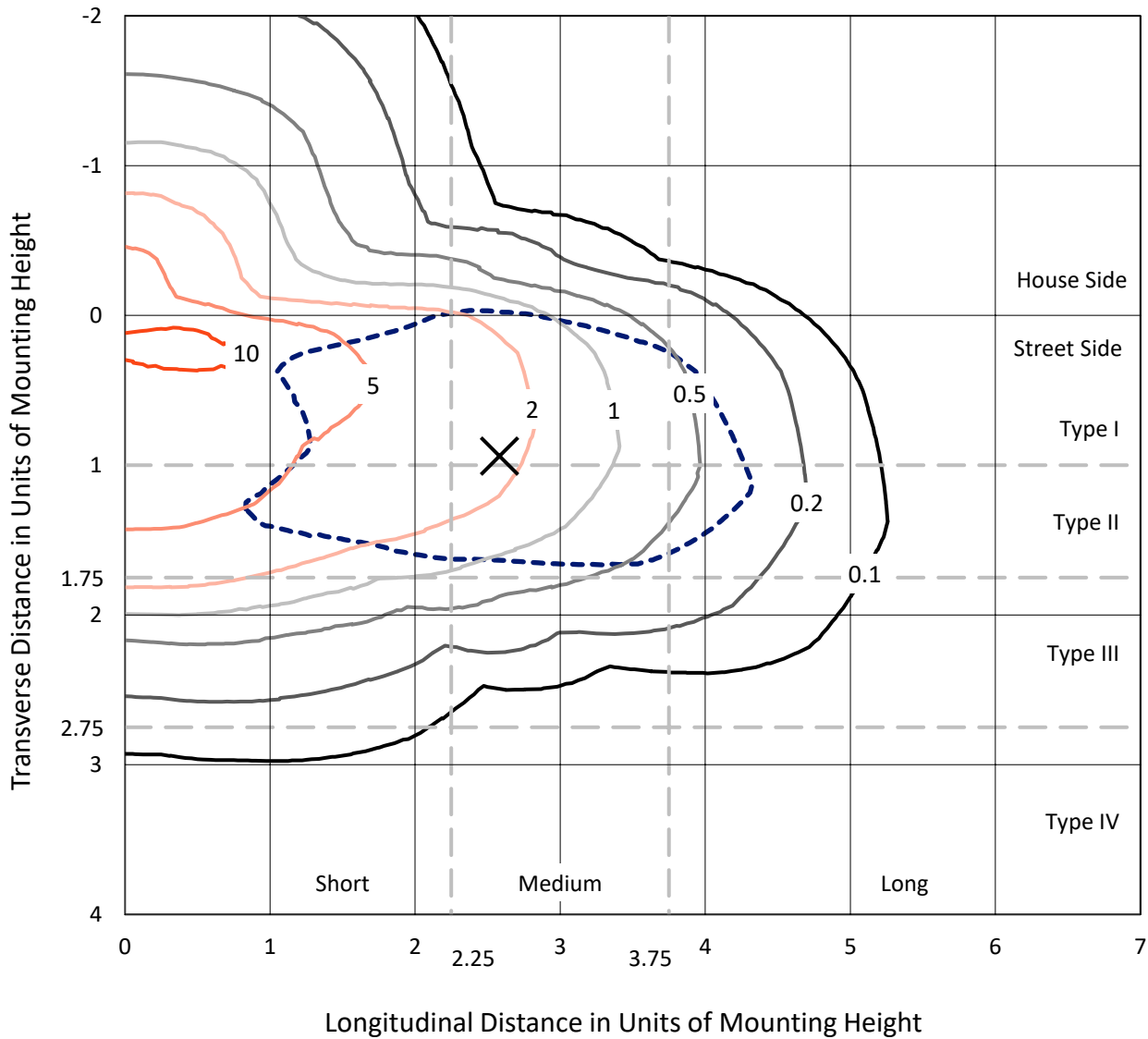
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

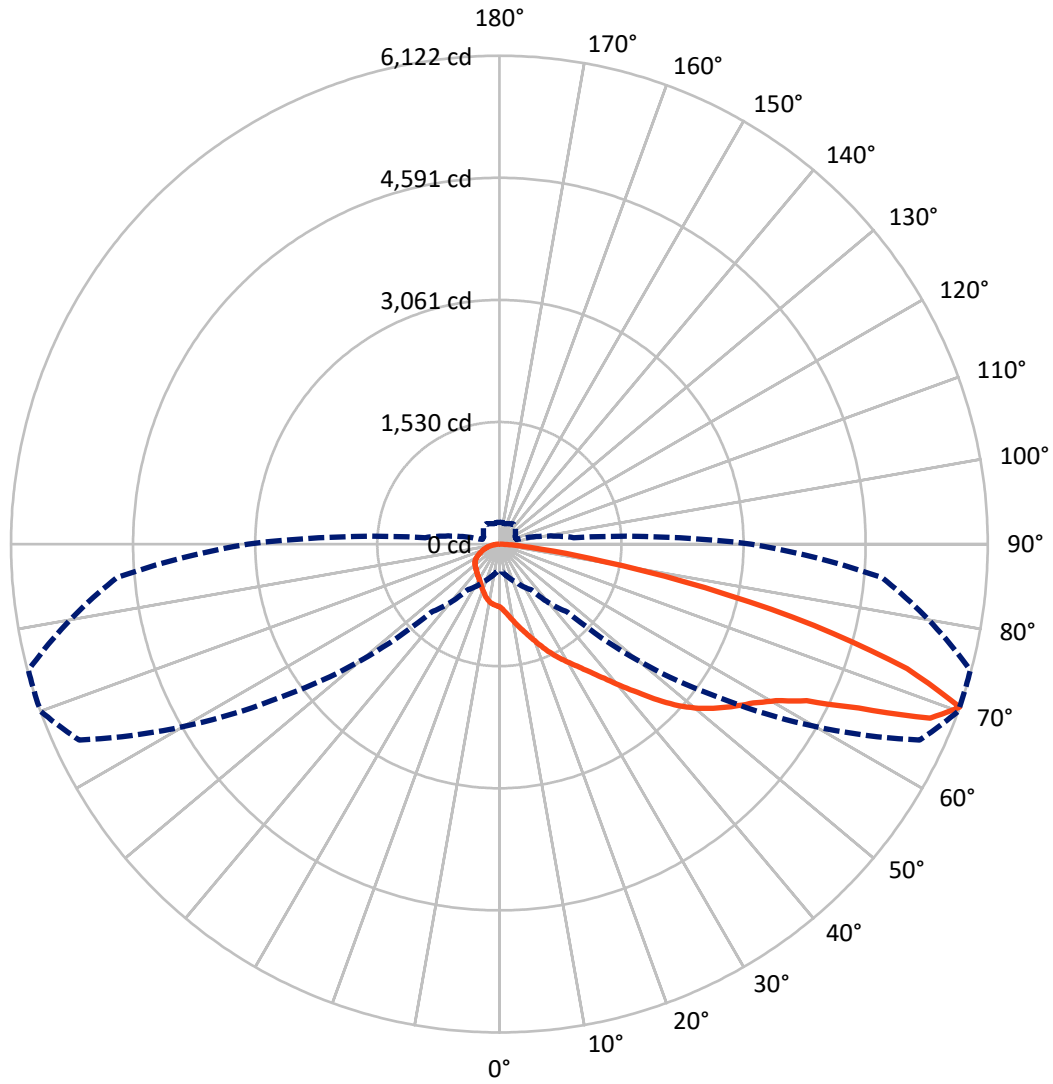
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1210.2	0.0	1210.2
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	5543.0	0.0	5543.0
	% Fixture	82.1	0.0	82.1
Total	Lumens	6753.2	0.0	6753.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	1.2
10°-20°	260.4	3.9
20°-30°	461.3	6.8
30°-40°	694.3	10.3
40°-50°	1050.3	15.6
50°-60°	1504.7	22.3
60°-70°	1663.2	24.6
70°-80°	938.6	13.9
80°-90°	100.4	1.5
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°	6753.2	100.0
0°-180°	6753.2	100.0

Coefficient of Utilization



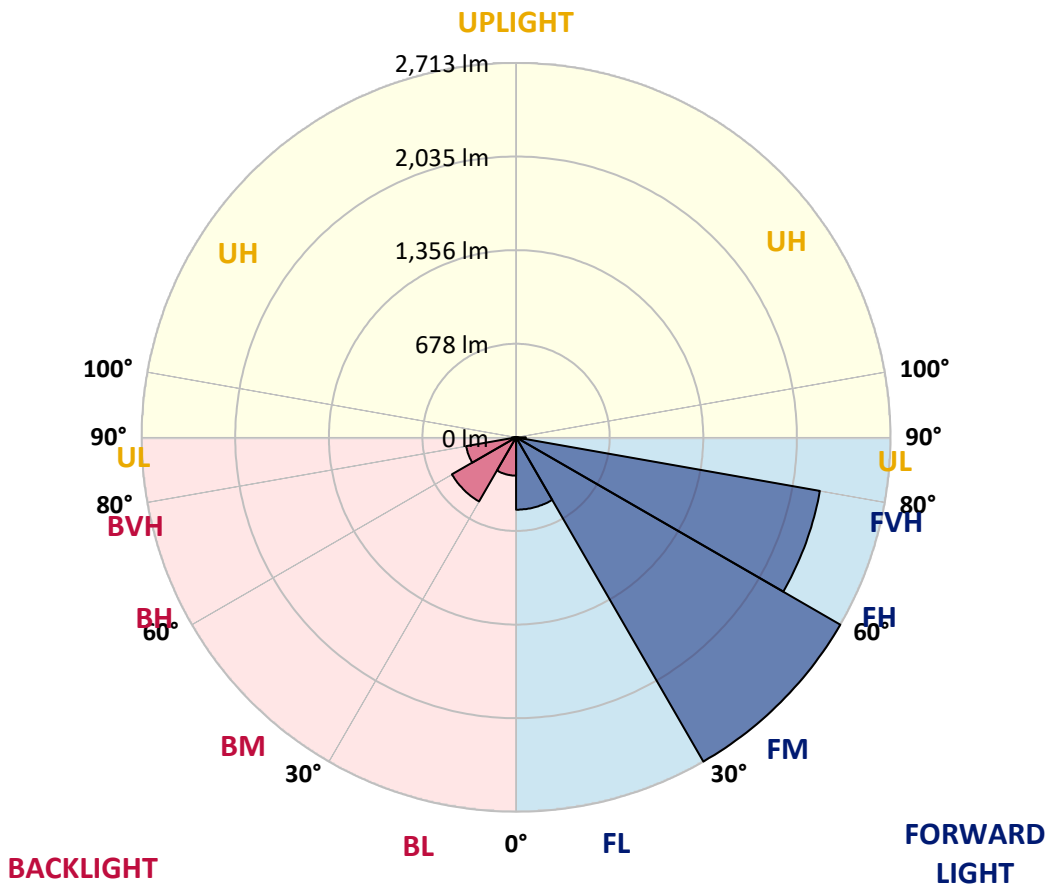
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	524.3	7.8			
FM (30°-60°)	2712.8	40.2			
FH (60°-80°)	2235.0	33.1			G2/5000
FVH (80°-90°)	71.0	1.1			G1/100
BL (0°-30°)	277.5	4.1	B1/500		
BM (30°-60°)	536.5	7.9	B1/1000		
BH (60°-80°)	366.8	5.4	B1/500		G1/500
BVH (80°-90°)	29.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6
2.5°	872.5	871.0	872.0	871.0	865.6	852.5	841.7	828.1	818.8	813.4	800.7
5°	974.9	973.5	970.1	965.2	955.4	937.4	910.5	880.8	862.7	849.0	822.2
7.5°	1048.6	1048.6	1048.1	1042.3	1035.4	1016.4	984.7	945.7	919.3	895.9	852.0
10°	1086.2	1088.6	1092.0	1100.3	1098.9	1088.6	1058.9	1016.9	983.7	956.4	891.0
12.5°	1106.7	1108.2	1114.0	1131.1	1148.7	1151.1	1133.5	1089.6	1053.5	1016.9	934.4
15°	1133.0	1133.5	1141.3	1161.8	1187.7	1213.5	1209.2	1165.2	1128.2	1087.7	982.7
17.5°	1153.5	1156.9	1171.1	1195.0	1227.2	1262.8	1284.3	1257.0	1211.1	1164.8	1035.4
20°	1160.9	1163.3	1181.8	1218.4	1262.3	1312.6	1360.4	1353.1	1306.7	1252.1	1095.0
22.5°	1187.2	1187.2	1200.9	1231.6	1283.3	1356.5	1434.1	1453.1	1412.1	1348.2	1158.9
25°	1245.3	1243.3	1249.7	1262.3	1301.4	1391.7	1506.8	1563.9	1518.0	1446.3	1222.8
27.5°	1324.8	1323.8	1323.3	1325.3	1338.5	1422.4	1568.3	1667.3	1621.5	1540.5	1279.9
30°	1411.2	1408.2	1414.6	1408.7	1405.8	1459.0	1620.5	1760.1	1724.4	1633.7	1327.2
32.5°	1528.8	1523.4	1521.9	1502.9	1491.2	1516.1	1662.5	1865.5	1837.2	1734.2	1380.4
35°	1683.9	1679.1	1654.2	1623.9	1589.3	1601.0	1714.7	1968.4	1970.4	1860.1	1450.2
37.5°	1840.6	1841.6	1822.0	1750.8	1715.2	1708.3	1794.2	2093.8	2135.8	2010.4	1540.5
40°	1970.9	1976.7	1976.7	1901.6	1848.4	1842.0	1906.0	2242.7	2326.1	2194.8	1654.7
42.5°	2069.9	2075.3	2092.4	2038.2	1982.1	2004.0	2041.6	2392.0	2541.8	2422.7	1799.1
45°	2178.7	2183.1	2192.4	2161.2	2128.5	2187.0	2195.3	2570.6	2788.7	2678.4	1967.0
47.5°	2323.2	2319.3	2320.2	2297.3	2271.9	2366.6	2364.6	2720.8	3027.3	2958.5	2149.0
50°	2502.7	2510.1	2503.2	2457.8	2428.1	2514.4	2525.7	2887.2	3237.1	3235.6	2332.4
52.5°	2675.5	2678.4	2714.5	2716.5	2655.5	2637.4	2666.7	3055.1	3414.2	3489.4	2508.6
55°	2684.3	2695.5	2803.8	2881.9	2980.4	2835.5	2809.2	3215.2	3585.5	3737.8	2691.6
57.5°	2497.4	2515.4	2699.4	2867.7	3142.0	3175.6	3053.1	3422.0	3756.8	3982.2	2903.3
60°	2098.2	2135.8	2385.6	2643.3	3069.3	3420.1	3552.3	3703.1	3981.7	4232.1	3160.5
62.5°	1339.9	1354.6	1704.9	2136.3	2741.8	3396.2	4095.9	4198.4	4324.3	4557.5	3556.7
65°	670.9	717.8	923.2	1275.0	1977.2	2992.6	4370.6	5105.5	4951.3	5114.8	4198.9
67.5°	455.3	470.4	574.3	766.1	1159.4	2120.2	4200.3	5869.6	5824.3	5851.1	4883.5
70°	335.7	345.5	427.5	542.6	701.2	1203.8	3344.0	5812.1	6121.9	6112.2	4811.7
72.5°	245.0	249.8	311.8	414.3	519.7	622.6	2042.1	4695.1	5344.1	5625.7	4208.1
75°	178.1	184.0	216.7	309.9	404.0	388.4	1008.1	3391.3	4075.4	4617.1	3428.4
77.5°	132.7	140.0	155.2	194.2	283.0	278.1	435.7	2202.2	2635.9	3015.6	2082.6
80°	95.6	97.1	105.9	124.4	179.6	163.0	207.4	1148.2	1316.5	1442.4	816.4
82.5°	58.1	59.5	70.8	76.6	111.3	102.5	107.8	371.8	532.8	565.5	305.0
85°	17.1	18.1	32.2	35.1	46.4	43.9	43.4	151.3	180.5	230.8	120.0
87.5°	0.0	0.0	0.0	0.0	0.5	2.9	5.4	26.8	40.5	56.1	29.3
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°	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6
2.5°	795.9	784.6	778.8	768.5	761.2	753.9	746.6	739.7	736.8	732.4	733.4
5°	810.0	792.4	774.9	754.9	737.8	723.6	711.0	699.7	694.9	690.5	692.4
7.5°	831.5	805.1	771.5	734.9	708.0	688.5	675.3	667.5	665.1	661.7	661.7
10°	858.8	819.3	760.2	708.0	675.8	660.2	654.4	653.9	656.3	656.8	655.8
12.5°	889.1	832.9	743.6	676.3	649.0	644.1	648.5	656.8	665.1	669.5	668.5
15°	920.3	841.7	715.3	646.1	629.5	635.8	650.0	666.5	682.7	690.9	690.5
17.5°	949.6	843.7	678.7	616.8	612.4	628.5	652.9	678.7	700.7	712.4	712.9
20°	982.3	840.3	641.2	590.4	595.3	621.7	653.9	685.1	711.0	722.7	725.6
22.5°	1012.0	828.6	604.6	565.5	580.7	613.4	646.1	675.3	698.3	709.5	713.4
25°	1038.9	806.1	564.6	544.6	569.4	601.7	626.5	647.0	663.1	670.0	675.3
27.5°	1053.5	772.4	534.3	528.0	558.7	585.1	598.7	605.1	610.4	608.5	612.4
30°	1056.4	730.5	508.0	514.8	542.6	562.1	565.1	558.7	549.4	534.3	537.7
32.5°	1053.5	682.2	486.0	500.6	524.6	536.3	532.4	515.8	493.3	469.9	471.4
35°	1054.5	633.4	468.0	485.0	503.6	509.9	500.2	477.2	453.3	431.8	430.9
37.5°	1065.2	592.4	452.8	469.9	483.1	484.1	473.3	449.4	437.2	421.1	419.2
40°	1095.0	562.1	439.2	454.8	463.1	462.6	450.4	433.3	441.6	436.2	434.8
42.5°	1143.8	543.6	427.9	438.7	444.5	445.5	435.7	425.0	443.1	436.2	433.8
45°	1222.3	542.6	420.1	422.6	431.8	438.7	431.8	419.6	426.5	393.3	387.0
47.5°	1315.5	559.2	414.3	408.4	424.5	436.7	426.0	406.5	392.3	362.1	357.7
50°	1427.8	592.9	408.9	393.3	413.8	429.4	418.7	391.8	370.4	354.3	351.8
52.5°	1561.0	637.3	402.1	376.2	397.7	425.5	418.7	390.4	362.1	347.4	345.0
55°	1700.5	688.5	394.3	355.7	379.6	426.5	422.1	380.1	355.7	347.9	346.0
57.5°	1873.8	750.0	380.1	331.8	363.5	417.7	408.4	374.3	351.3	345.0	343.0
60°	2098.7	841.2	353.3	307.4	345.0	402.1	396.2	364.5	339.6	334.3	332.8
62.5°	2454.9	995.9	320.6	284.0	323.0	369.4	378.2	346.0	325.0	324.5	324.0
65°	3035.6	1181.8	282.0	263.0	300.1	342.5	354.3	326.9	309.9	315.2	314.7
67.5°	3442.5	1197.9	250.3	241.1	273.3	313.3	330.3	307.4	288.9	299.1	298.6
70°	3153.2	934.4	223.0	218.1	244.5	281.6	304.5	283.0	264.5	274.2	272.3
72.5°	2659.4	716.3	197.1	194.2	215.2	248.4	271.3	258.6	239.1	239.1	234.7
75°	2137.3	590.9	169.8	168.3	182.5	214.7	240.6	219.1	201.0	200.1	197.1
77.5°	1225.7	387.4	142.5	141.5	145.9	179.6	186.9	182.5	168.8	162.5	160.5
80°	488.4	201.5	112.2	105.9	110.3	131.7	147.4	140.0	128.3	120.5	116.1
82.5°	189.3	101.0	79.0	69.3	75.6	95.2	106.9	104.4	96.6	79.0	74.2
85°	77.1	49.3	47.3	40.0	43.9	51.2	61.5	53.2	43.9	31.2	29.8
87.5°	20.5	18.1	17.6	10.7	8.3	2.4	0.5	0.0	0.0	0.0	0.0
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)