

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: P631290

Luminaire Tested: GWS-SA1F-735-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-735-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8473 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

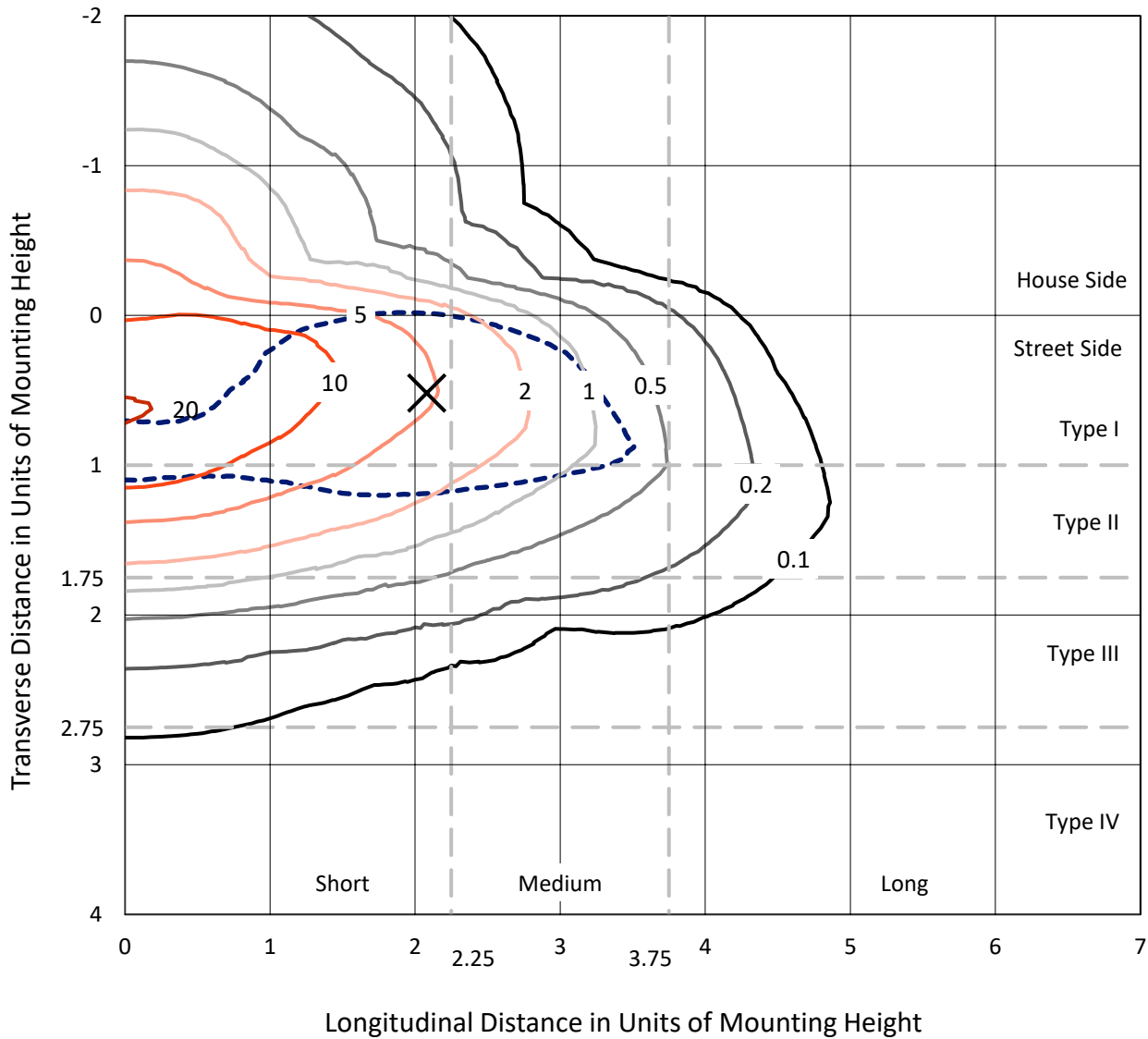
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

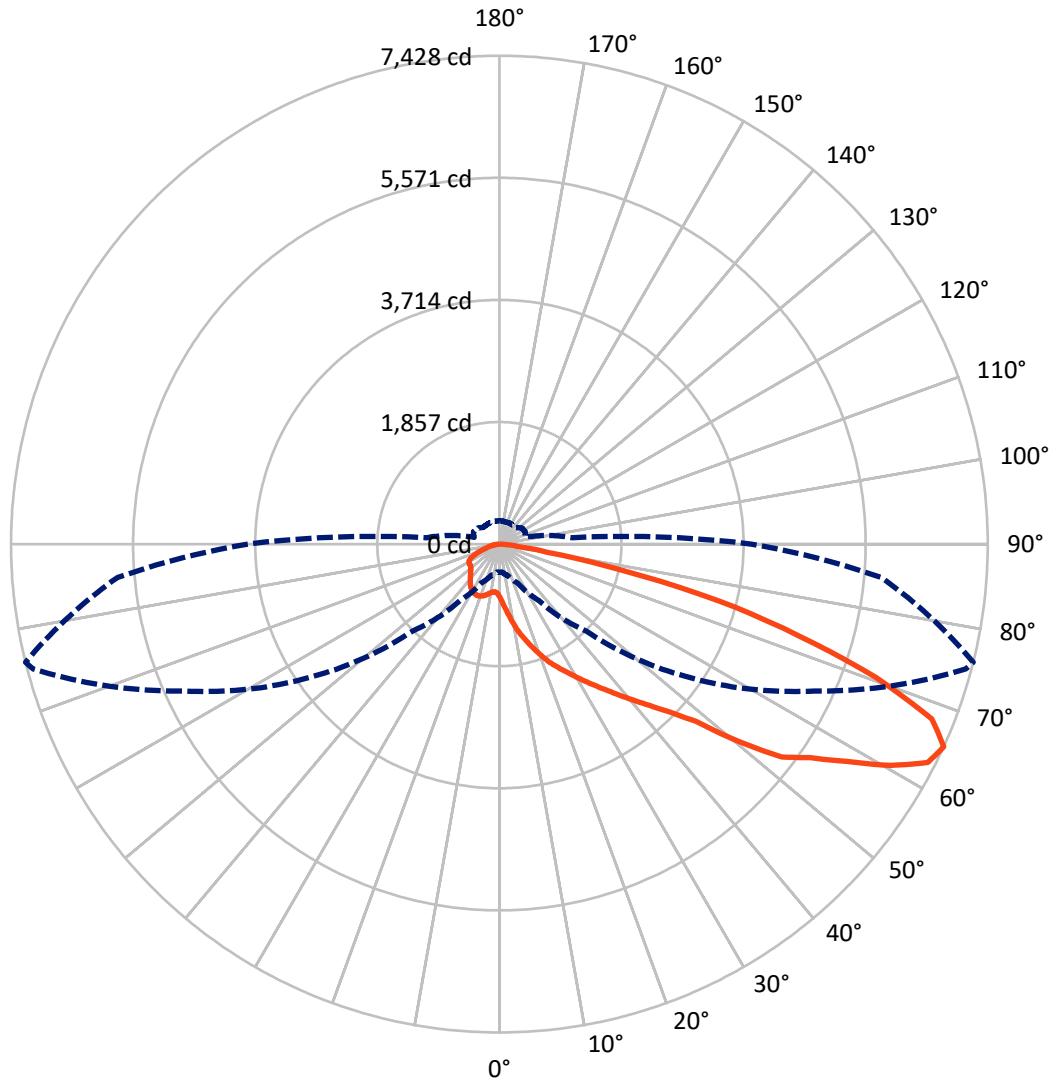
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1416.3	0.0	1416.3
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	7056.7	0.0	7056.7
	% Fixture	83.3	0.0	83.3
Total	Lumens	8473.0	0.0	8473.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	1.1
10°-20°	363.1	4.3
20°-30°	707.6	8.4
30°-40°	1183.4	14.0
40°-50°	1694.4	20.0
50°-60°	2006.0	23.7
60°-70°	1668.0	19.7
70°-80°	682.6	8.1
80°-90°	72.7	0.9
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°	8473.0	100.0
0°-180°	8473.0	100.0

Coefficient of Utilization



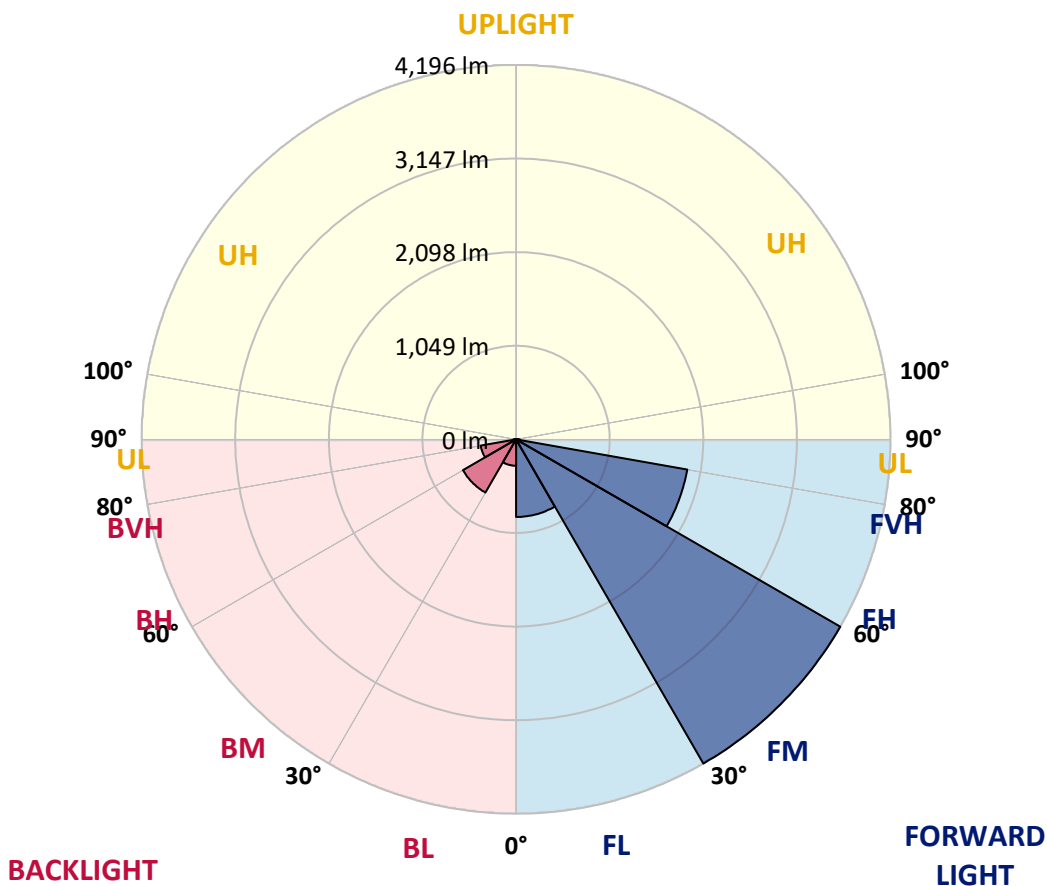
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	869.7	10.3			
FM (30°-60°)	4195.5	49.5			
FH (60°-80°)	1948.2	23.0			G2/5000
FVH (80°-90°)	43.3	0.5			G1/100
BL (0°-30°)	296.3	3.5	B1/500		
BM (30°-60°)	688.3	8.1	B1/1000		
BH (60°-80°)	402.4	4.7	B1/500		G1/500
BVH (80°-90°)	29.3	0.3			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4
2.5°	1124.6	1128.8	1115.1	1110.3	1078.2	1034.7	998.3	943.5	892.9	885.2	839.9
5°	1428.4	1410.5	1395.0	1384.9	1340.2	1290.8	1214.0	1110.9	1003.1	990.0	892.3
7.5°	1608.9	1605.9	1586.9	1580.9	1546.3	1496.9	1417.7	1289.6	1133.0	1111.5	963.2
10°	1753.6	1751.9	1742.3	1747.7	1716.1	1667.9	1591.0	1458.8	1275.3	1253.9	1042.4
12.5°	1879.9	1882.9	1881.1	1900.8	1884.7	1847.2	1767.3	1622.0	1417.7	1394.5	1138.9
15°	1972.2	1974.6	1983.6	2026.5	2035.4	2027.6	1946.6	1782.2	1558.3	1524.9	1238.4
17.5°	1998.5	2003.2	2024.7	2093.8	2142.0	2174.2	2114.0	1945.4	1696.5	1660.1	1339.7
20°	2033.6	2039.0	2060.4	2132.5	2203.4	2276.6	2265.9	2111.0	1835.8	1806.1	1442.1
22.5°	2196.2	2192.1	2182.5	2217.1	2267.7	2358.8	2385.6	2270.1	1980.0	1951.4	1555.3
25°	2509.5	2501.8	2441.0	2409.5	2392.8	2448.2	2495.8	2414.8	2120.6	2077.7	1660.7
27.5°	2855.0	2850.9	2773.4	2698.4	2595.9	2572.1	2600.1	2541.1	2257.0	2213.5	1752.4
30°	3182.0	3169.5	3088.5	2994.4	2857.4	2755.0	2713.9	2665.0	2406.5	2361.2	1859.7
32.5°	3474.5	3458.4	3363.1	3258.9	3115.3	2994.4	2871.7	2796.7	2575.7	2523.2	1969.3
35°	3714.6	3698.5	3600.8	3490.0	3332.2	3242.8	3074.8	2939.6	2747.8	2694.8	2098.5
37.5°	3900.4	3885.5	3783.7	3674.7	3537.1	3466.2	3320.2	3100.4	2946.2	2890.8	2235.5
40°	4004.7	3993.9	3912.3	3826.0	3710.4	3649.0	3583.5	3303.6	3168.3	3112.9	2397.0
42.5°	4036.2	4029.1	3971.9	3927.2	3849.2	3802.7	3840.3	3542.4	3405.4	3357.2	2578.6
45°	3957.0	3957.0	3940.3	3963.0	3966.5	3965.9	4097.6	3812.3	3696.7	3643.7	2834.8
47.5°	3754.5	3767.6	3792.0	3903.4	4020.7	4119.0	4398.4	4172.0	4071.4	4027.9	3197.5
50°	3384.0	3419.7	3503.1	3720.5	3970.1	4220.3	4683.1	4704.0	4799.9	4723.0	3731.3
52.5°	2841.3	2836.0	3048.6	3358.4	3739.0	4224.5	4839.8	5173.4	5431.3	5378.3	4128.0
55°	2258.2	2249.2	2447.6	2874.7	3384.6	4064.8	4933.9	5388.4	5781.5	5733.9	4484.8
57.5°	1729.2	1717.9	1894.2	2279.6	2884.2	3725.9	4916.0	5644.5	6263.4	6239.0	4969.6
60°	1190.1	1176.4	1341.4	1678.6	2292.1	3207.7	4718.3	5776.2	6827.5	6835.9	5488.5
62.5°	714.8	707.1	826.8	1088.3	1648.8	2565.5	4255.4	5696.4	7276.7	7314.2	5822.0
65°	431.3	425.9	496.2	649.3	1046.0	1872.2	3541.8	5288.3	7341.6	7428.0	5829.8
67.5°	313.9	314.5	334.8	395.5	610.0	1209.2	2657.9	4556.8	7003.2	7092.6	5462.3
70°	272.8	274.0	284.7	298.4	368.7	692.2	1728.0	3597.2	6003.1	6072.2	4581.3
72.5°	242.4	242.4	249.6	256.7	288.3	421.7	925.7	2514.3	4737.9	4756.4	3496.6
75°	213.2	211.5	215.0	218.6	250.2	294.9	450.3	1751.9	3499.5	3456.6	2260.0
77.5°	169.8	168.0	168.6	172.1	200.7	210.9	228.1	1094.2	1972.2	1861.5	998.3
80°	120.9	119.7	126.3	135.2	148.3	129.3	143.0	529.5	782.1	727.9	387.2
82.5°	72.1	74.5	84.6	91.7	102.5	81.0	92.3	176.9	277.0	269.8	157.3
85°	10.1	10.7	30.4	35.1	44.1	31.6	48.8	79.8	110.8	118.5	55.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.2	14.3	31.6	32.2	13.7
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°	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4
2.5°	816.7	788.7	748.8	715.4	687.4	664.8	645.7	631.4	627.2	621.3	621.3
5°	846.4	795.8	724.3	673.7	644.5	627.2	615.3	609.4	606.4	602.8	601.0
7.5°	887.5	816.7	720.2	668.9	646.3	635.6	627.8	624.3	621.9	618.3	618.3
10°	944.1	847.6	733.3	685.6	667.7	657.0	648.1	642.1	636.8	631.4	630.2
12.5°	1005.5	888.1	757.1	708.2	689.2	676.1	663.6	654.6	648.1	641.5	639.7
15°	1073.4	929.8	782.7	730.3	706.5	688.6	673.7	660.0	651.1	641.5	640.3
17.5°	1140.1	972.1	804.1	745.2	714.8	692.8	671.3	653.4	642.1	631.4	628.4
20°	1219.9	1014.4	819.0	749.3	713.0	683.8	658.2	635.6	623.1	610.6	608.8
22.5°	1293.2	1053.7	826.2	743.4	699.3	664.8	635.0	610.6	596.9	584.3	582.0
25°	1364.1	1088.3	823.2	729.1	678.5	638.6	607.6	583.2	570.1	556.9	553.4
27.5°	1432.6	1111.5	811.3	707.1	652.3	609.4	579.6	557.5	546.2	534.9	530.1
30°	1499.9	1133.0	792.8	678.5	618.9	579.0	554.6	539.1	527.8	515.8	512.3
32.5°	1567.8	1148.4	764.8	645.1	584.9	552.2	537.3	526.0	514.1	502.1	498.6
35°	1636.3	1155.0	730.9	607.0	556.4	534.9	529.5	516.4	500.4	486.1	481.3
37.5°	1717.9	1161.0	688.6	569.5	531.3	526.6	525.4	505.7	486.7	467.0	461.6
40°	1816.2	1168.7	645.1	535.5	511.1	523.6	518.8	492.0	453.9	434.8	428.9
42.5°	1936.5	1183.0	599.8	504.5	496.2	512.3	506.9	458.7	433.0	422.3	419.3
45°	2113.4	1235.4	554.6	480.1	484.9	496.2	487.9	439.0	428.9	421.7	418.2
47.5°	2428.5	1315.8	515.3	461.6	475.9	481.9	449.7	433.6	425.9	416.4	412.2
50°	2756.1	1351.0	483.7	450.3	465.8	468.8	428.9	426.5	421.1	411.0	406.8
52.5°	2977.7	1346.2	464.6	446.2	457.5	446.2	419.3	418.8	415.2	403.3	398.5
55°	3227.9	1354.5	456.3	447.3	453.9	408.0	407.4	409.2	407.4	394.3	391.9
57.5°	3565.7	1380.2	452.1	451.5	451.5	389.6	396.1	398.5	394.9	389.0	387.2
60°	3890.3	1381.9	444.4	456.3	449.7	378.2	383.0	385.4	381.2	380.0	379.4
62.5°	4012.4	1296.2	427.1	452.7	442.6	365.7	369.3	370.5	366.3	369.3	368.7
65°	3830.7	1113.9	398.5	435.4	420.5	354.4	352.0	355.0	347.9	355.6	356.2
67.5°	3401.3	885.2	355.0	402.7	389.6	341.9	337.1	337.1	325.2	337.1	336.6
70°	2742.4	625.4	291.3	350.3	355.6	327.0	324.6	310.9	291.9	309.7	308.0
72.5°	2078.9	449.1	229.3	277.0	306.2	306.2	306.8	283.5	261.5	269.8	262.7
75°	1317.0	316.3	183.5	212.1	240.1	268.6	282.3	239.5	219.8	216.2	212.7
77.5°	593.3	207.9	143.0	162.6	170.4	212.1	257.9	206.1	179.3	171.6	169.2
80°	248.4	129.3	101.9	115.0	104.8	178.1	227.5	160.2	131.6	120.9	113.2
82.5°	109.0	76.8	64.9	61.9	65.5	132.2	169.8	106.6	82.2	111.4	112.6
85°	45.9	40.5	33.4	30.4	26.8	50.6	79.8	41.7	51.2	29.2	23.8
87.5°	10.7	11.9	8.9	6.0	3.6	0.6	0.0	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)