

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: P631425

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-760-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8655.5 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

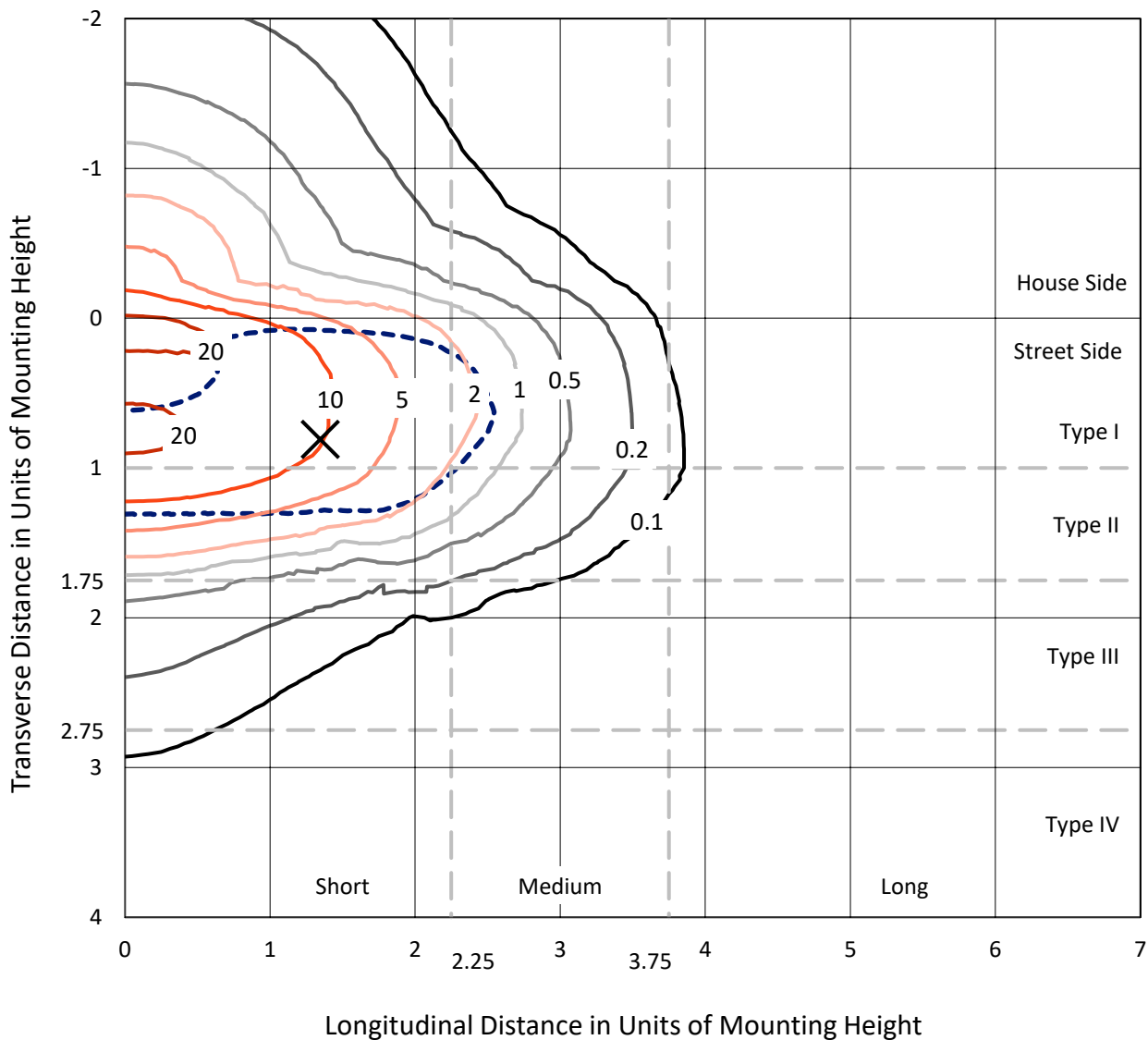
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

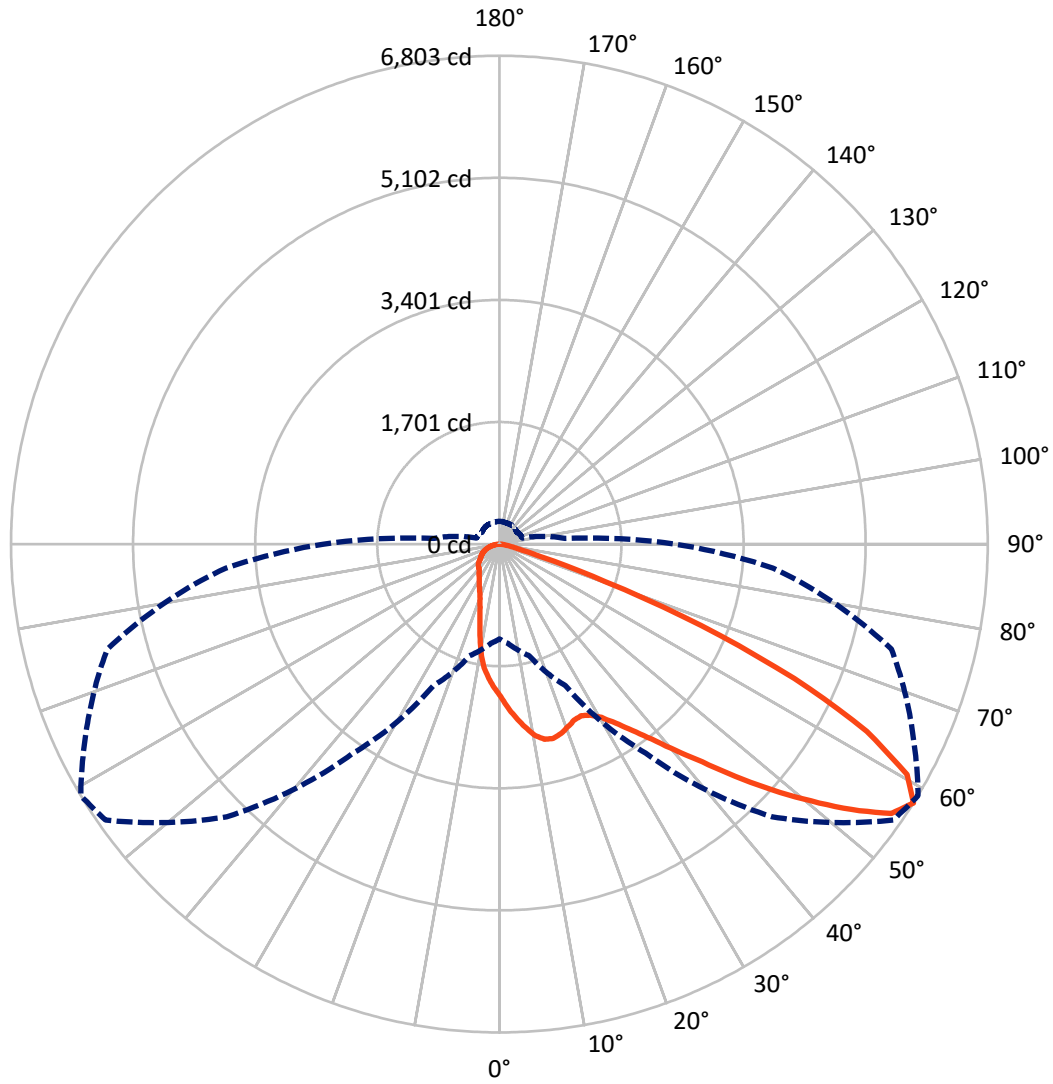
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1343.3	0.0	1343.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	7312.2	0.0	7312.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	8655.5	0.0	8655.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.3	2.3
10°-20°	499.9	5.8
20°-30°	810.4	9.4
30°-40°	1303.6	15.1
40°-50°	2024.4	23.4
50°-60°	2180.5	25.2
60°-70°	1265.5	14.6
70°-80°	330.4	3.8
80°-90°	43.5	0.5
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°	8655.5	100.0
0°-180°	8655.5	100.0

Coefficient of Utilization



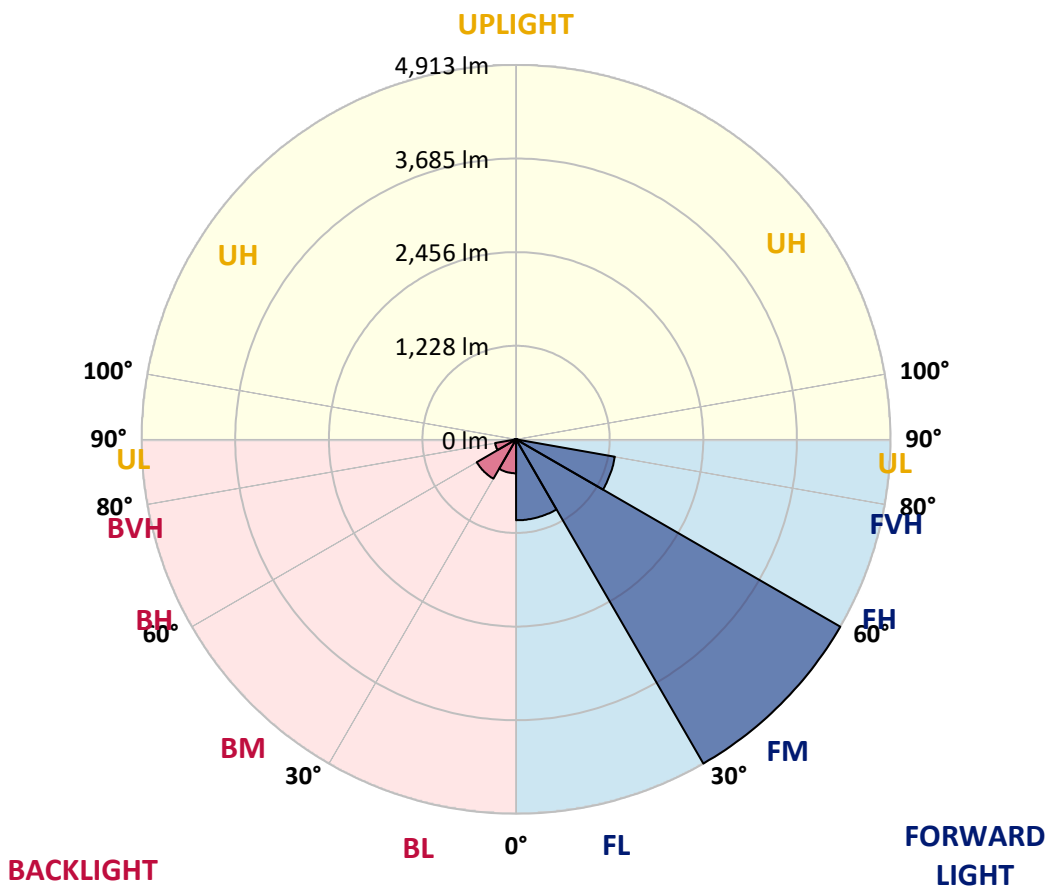
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1061.9	12.3			
FM (30°-60°)	4913.0	56.8			
FH (60°-80°)	1316.5	15.2			G1/1800
FVH (80°-90°)	20.8	0.2			G1/100
BL (0°-30°)	445.7	5.1	B1/500		
BM (30°-60°)	595.6	6.9	B1/1000		
BH (60°-80°)	279.4	3.2	B1/500		G1/500
BVH (80°-90°)	22.7	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2124.8	2124.8	2124.8	2124.8	2124.8	2124.8	2124.8	2124.8	2124.8	2124.8	2124.8
2.5°	2409.9	2389.8	2403.8	2378.8	2368.5	2341.1	2305.7	2282.0	2245.4	2197.9	2156.4
5°	2649.4	2635.4	2638.4	2611.6	2587.8	2542.1	2469.6	2429.4	2367.3	2271.6	2182.6
7.5°	2642.1	2658.5	2667.7	2690.8	2697.5	2693.3	2628.1	2572.0	2503.8	2360.0	2225.9
10°	2368.5	2399.6	2427.6	2506.8	2603.1	2724.9	2740.2	2706.7	2637.8	2472.7	2277.7
12.5°	2070.5	2094.3	2119.3	2214.3	2361.8	2605.5	2770.6	2791.4	2763.9	2584.2	2336.2
15°	1924.3	1935.2	1959.0	2021.8	2139.4	2409.9	2717.6	2808.4	2857.8	2702.4	2402.0
17.5°	1918.2	1923.1	1934.6	1968.2	2049.8	2258.8	2622.0	2774.3	2931.5	2827.3	2478.8
20°	2044.3	2031.5	2024.2	2023.6	2063.8	2208.2	2529.4	2719.5	2966.2	2955.3	2561.0
22.5°	2219.2	2223.5	2207.6	2168.6	2163.7	2244.2	2483.0	2664.0	2976.6	3068.6	2637.2
25°	2467.2	2488.5	2441.6	2367.3	2330.7	2348.4	2511.7	2647.0	2975.4	3163.1	2684.7
27.5°	2756.6	2773.1	2725.6	2628.1	2552.5	2509.9	2597.0	2697.5	2985.7	3244.7	2713.4
30°	3086.3	3091.8	3026.6	2924.2	2813.9	2722.5	2739.0	2801.7	3038.8	3352.0	2746.9
32.5°	3489.1	3512.2	3413.5	3251.4	3097.3	2980.3	2929.7	2969.9	3153.3	3478.7	2798.7
35°	4000.3	4008.2	3882.7	3650.5	3432.4	3270.3	3164.3	3185.6	3327.6	3656.0	2876.7
37.5°	4482.3	4490.2	4356.7	4141.0	3829.1	3607.3	3453.7	3444.0	3550.6	3906.4	3004.0
40°	4788.2	4810.7	4751.0	4615.7	4317.7	4018.6	3810.2	3776.7	3843.1	4212.9	3181.3
42.5°	4952.7	4962.4	4961.2	4978.9	4801.6	4504.2	4212.3	4145.3	4189.8	4543.8	3360.5
45°	4953.9	4978.3	5043.5	5213.5	5221.4	5036.2	4720.5	4615.7	4574.9	4877.1	3547.6
47.5°	4732.1	4758.3	4937.4	5272.0	5518.7	5560.8	5329.2	5119.0	4947.2	5164.1	3701.1
50°	4060.6	4126.4	4467.6	5059.3	5577.2	5981.2	5909.9	5624.8	5278.1	5385.9	3797.4
52.5°	3477.5	3475.0	3685.3	4458.5	5332.9	6166.5	6471.8	6145.1	5605.3	5526.7	3821.8
55°	2546.4	2560.4	2775.5	3409.8	4680.9	5987.3	6780.7	6624.1	5980.6	5601.6	3812.0
57.5°	1320.4	1389.9	1610.5	2175.9	3556.7	5370.7	6698.4	6802.6	6362.1	5654.6	3824.8
60°	667.2	653.8	733.0	1038.9	2060.8	4194.7	6191.5	6523.5	6430.9	5696.1	3832.7
62.5°	445.4	441.8	419.8	481.4	842.1	2484.3	5278.1	5743.6	5952.6	5598.6	3731.6
65°	385.7	378.4	338.2	335.7	408.9	1030.4	3868.7	4515.2	4919.8	5165.3	3489.7
67.5°	347.3	336.4	295.5	275.4	293.7	452.7	2180.2	3028.4	3632.9	4368.3	2959.5
70°	310.2	304.7	263.8	234.6	232.8	276.0	803.1	1562.9	2222.9	2980.3	2163.7
72.5°	277.9	268.1	233.4	205.3	191.3	195.6	348.5	602.0	1150.4	1859.1	1294.2
75°	240.7	233.4	202.9	174.9	157.8	143.2	212.7	278.5	524.6	883.5	611.2
77.5°	185.8	181.0	160.3	138.9	129.2	106.6	129.2	175.5	242.5	372.3	318.1
80°	107.9	110.9	119.4	108.5	95.1	76.2	84.1	101.1	145.6	201.7	180.4
82.5°	54.2	57.9	77.4	62.8	56.7	44.5	50.0	59.7	76.2	111.5	70.7
85°	4.3	4.3	14.0	15.8	19.5	15.8	20.1	24.4	34.7	44.5	23.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.0	5.5	10.4	6.7
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°	2124.8	2124.8	2124.8	2124.8	2124.8	2124.8	2124.8	2124.8	2124.8	2124.8	2124.8
2.5°	2128.4	2097.3	2060.2	2029.7	1982.8	1957.8	1926.1	1887.1	1871.3	1864.0	1859.7
5°	2132.7	2077.8	1998.6	1925.5	1844.5	1780.5	1709.2	1634.8	1592.2	1581.8	1574.5
7.5°	2148.5	2071.7	1945.6	1825.0	1674.5	1534.9	1399.0	1264.4	1195.5	1169.3	1166.9
10°	2170.5	2069.3	1892.0	1691.5	1437.4	1216.8	1057.8	952.4	907.9	893.3	888.4
12.5°	2197.9	2067.5	1821.3	1506.3	1163.8	955.4	864.6	847.6	853.7	852.5	852.5
15°	2232.6	2069.9	1736.0	1296.7	941.4	829.3	831.1	851.2	870.1	873.2	873.2
17.5°	2270.4	2067.5	1612.3	1086.4	808.0	799.4	827.5	855.5	872.6	875.0	875.0
20°	2311.2	2055.9	1456.3	888.4	749.5	780.6	811.0	833.0	843.3	845.8	845.8
22.5°	2335.6	2023.0	1286.9	751.9	712.3	750.7	770.8	793.4	794.6	775.1	774.5
25°	2331.9	1961.5	1093.8	664.2	672.7	706.2	731.8	716.0	696.5	685.5	683.7
27.5°	2308.8	1868.8	896.9	597.8	625.8	663.6	655.6	642.2	637.4	625.2	624.0
30°	2279.5	1754.9	720.2	546.0	577.0	611.8	599.6	598.4	593.5	580.1	580.1
32.5°	2251.5	1637.3	586.8	507.6	546.0	548.4	565.5	566.7	564.2	541.1	538.7
35°	2243.6	1519.7	496.6	477.1	515.5	514.3	538.7	538.0	496.0	463.7	463.1
37.5°	2267.3	1400.3	443.0	452.1	473.5	489.3	508.8	473.5	459.4	439.9	438.7
40°	2317.9	1290.0	415.6	437.5	446.6	469.8	439.3	441.8	438.1	423.5	421.7
42.5°	2384.9	1196.1	400.3	432.6	431.4	437.5	404.0	413.7	419.2	408.3	406.4
45°	2449.5	1114.5	392.4	414.3	420.4	385.1	378.4	387.5	396.1	391.8	390.0
47.5°	2497.1	1043.8	388.1	389.4	406.4	367.4	356.5	360.7	371.1	372.9	372.3
50°	2511.7	983.5	383.3	368.6	365.0	349.8	341.2	340.0	352.2	360.7	361.9
52.5°	2483.7	929.8	370.5	350.4	332.7	335.1	332.1	326.0	338.2	349.8	351.0
55°	2442.2	899.4	350.4	332.7	312.0	321.7	322.9	317.5	325.4	333.3	333.3
57.5°	2445.3	917.0	330.9	316.2	293.7	306.5	313.2	310.8	310.8	316.9	317.5
60°	2465.4	942.6	318.1	295.5	275.4	288.8	304.1	301.6	296.1	304.1	304.1
62.5°	2407.5	908.5	309.5	275.4	255.9	271.8	290.0	288.8	282.7	295.5	296.7
65°	2236.9	817.1	299.8	250.4	236.4	254.7	270.5	274.8	269.3	286.4	289.4
67.5°	1874.9	687.3	280.9	226.7	216.9	234.0	249.2	255.3	251.0	271.2	273.6
70°	1397.8	556.3	251.0	200.5	193.2	208.4	222.4	224.8	225.5	249.2	251.7
72.5°	891.5	432.6	211.4	171.2	165.7	177.3	187.7	197.4	201.7	224.2	223.6
75°	497.2	321.7	170.0	145.0	135.3	144.4	156.6	168.2	180.4	213.3	216.9
77.5°	286.4	226.1	134.7	116.4	104.8	114.6	124.9	141.4	177.9	206.6	202.9
80°	161.5	146.8	101.8	85.3	78.0	85.3	93.2	124.3	140.1	152.3	154.2
82.5°	75.6	82.3	69.5	52.4	52.4	57.3	64.6	96.3	106.0	86.5	75.6
85°	27.4	37.2	34.1	26.8	23.8	23.2	40.2	54.8	34.1	30.5	26.2
87.5°	7.3	10.4	9.7	6.7	3.7	3.0	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)