

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: P631370

Luminaire Tested: GWS-SA1F-750-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631370  
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-750-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

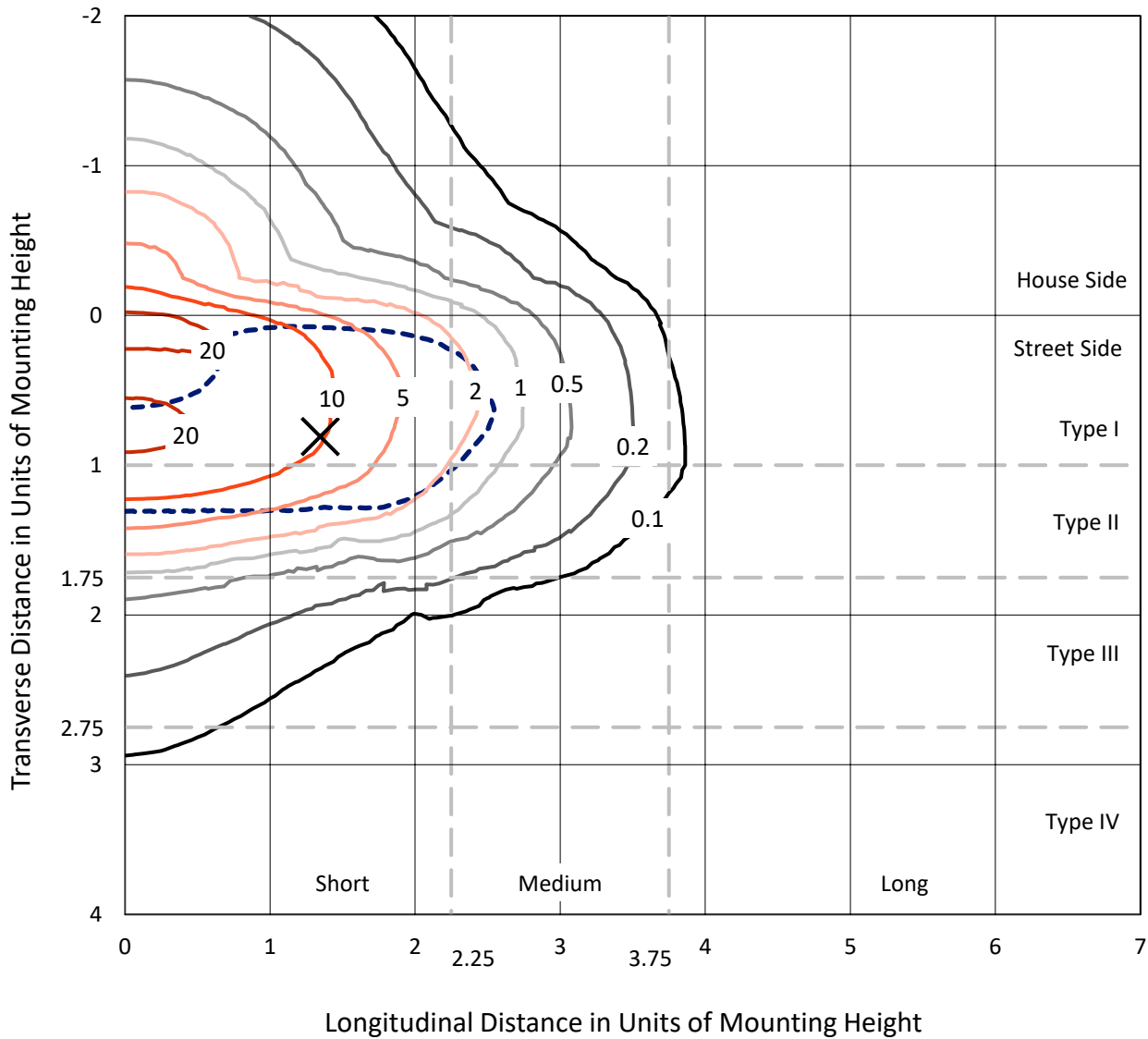
Lumens per Lamp: N/A  
Luminaire Lumens: 8775.8 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P631370  
 CATALOG NUMBER: GWS-SA1F-750-U-AFL-W

### Iso-Footcandle Lines of Horizontal Illumination

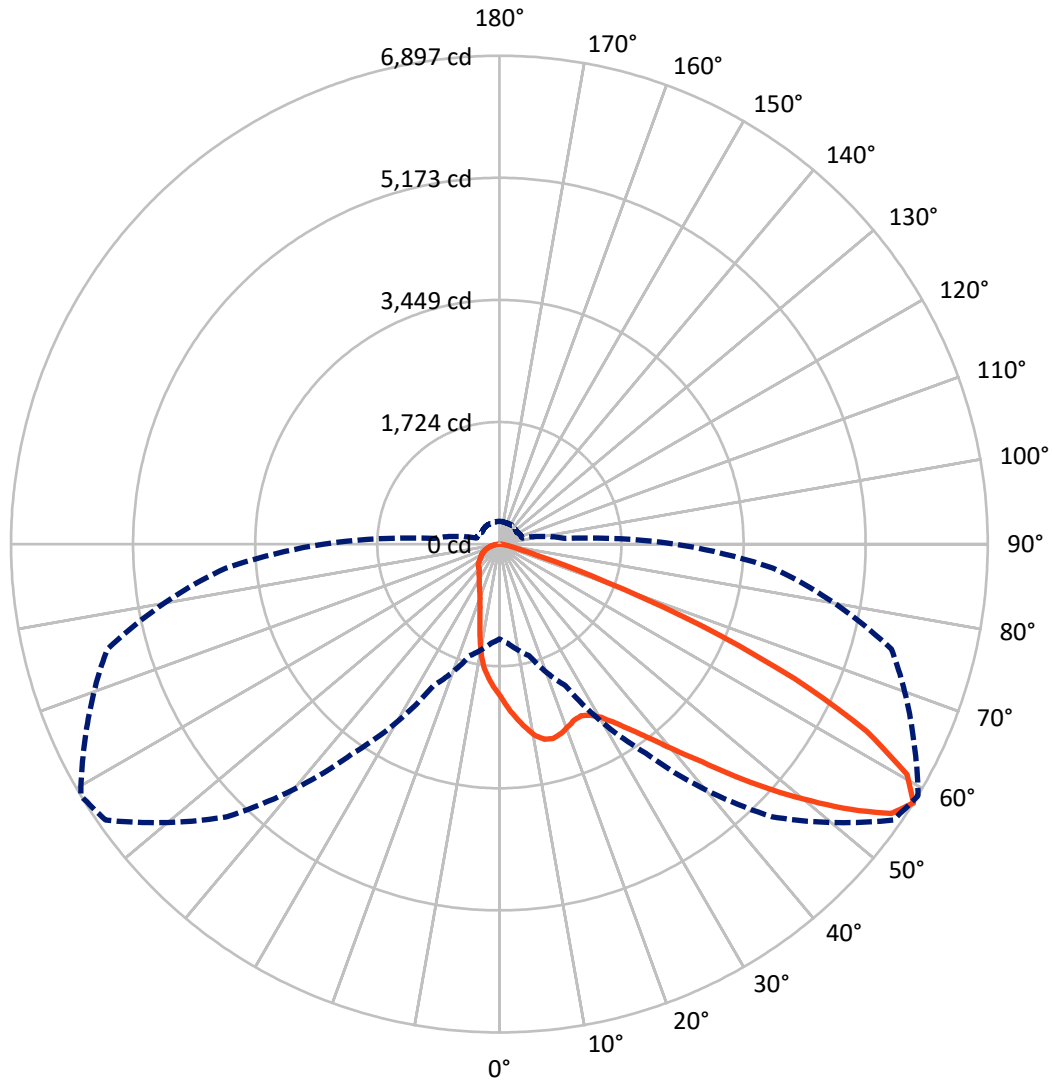
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P631370  
CATALOG NUMBER: GWS-SA1F-750-U-AFL-W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P631370

CATALOG NUMBER: GWS-SA1F-750-U-AFL-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1362.0	0.0	1362.0
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	7413.8	0.0	7413.8
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	8775.8	0.0	8775.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.0	2.3
10°-20°	506.9	5.8
20°-30°	821.6	9.4
30°-40°	1321.7	15.1
40°-50°	2052.5	23.4
50°-60°	2210.8	25.2
60°-70°	1283.1	14.6
70°-80°	335.0	3.8
80°-90°	44.1	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°	8775.8	100.0
0°-180°	8775.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P631370

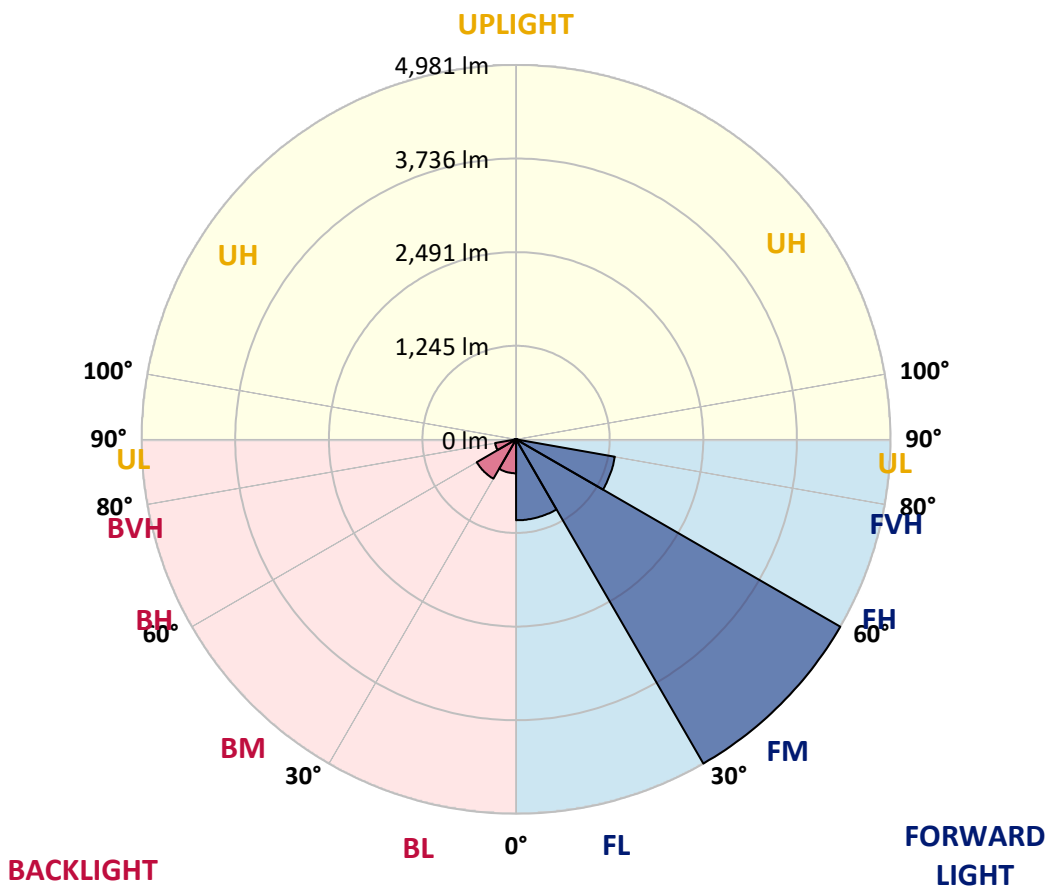
CATALOG NUMBER: GWS-SA1F-750-U-AFL-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1076.7	12.3			
FM (30°-60°)	4981.2	56.8			
FH (60°-80°)	1334.8	15.2			G1/1800
FVH (80°-90°)	21.1	0.2			G1/100
BL (0°-30°)	451.8	5.1	B1/500		
BM (30°-60°)	603.8	6.9	B1/1000		
BH (60°-80°)	283.3	3.2	B1/500		G1/500
BVH (80°-90°)	23.0	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





REPORT NUMBER: P631370  
 CATALOG NUMBER: GWS-SA1F-750-U-AFL-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3
2.5°	2443.4	2423.0	2437.2	2411.9	2401.4	2373.6	2337.8	2313.7	2276.6	2228.4	2186.4
5°	2686.2	2672.0	2675.1	2647.9	2623.8	2577.5	2504.0	2463.2	2400.2	2303.2	2213.0
7.5°	2678.8	2695.5	2704.7	2728.2	2735.0	2730.7	2664.6	2607.8	2538.6	2392.8	2256.8
10°	2401.4	2432.9	2461.3	2541.6	2639.3	2762.8	2778.3	2744.3	2674.5	2507.0	2309.4
12.5°	2099.3	2123.4	2148.7	2245.1	2394.6	2641.7	2809.2	2830.2	2802.4	2620.1	2368.7
15°	1951.0	1962.1	1986.2	2049.9	2169.1	2443.4	2755.4	2847.5	2897.5	2740.0	2435.4
17.5°	1944.8	1949.8	1961.5	1995.5	2078.3	2290.2	2658.4	2812.9	2972.3	2866.6	2513.2
20°	2072.7	2059.8	2052.3	2051.7	2092.5	2238.9	2564.5	2757.3	3007.5	2996.4	2596.6
22.5°	2250.0	2254.4	2238.3	2198.8	2193.8	2275.4	2517.6	2701.0	3018.0	3111.3	2673.9
25°	2501.5	2523.1	2475.5	2400.2	2363.1	2381.0	2546.6	2683.7	3016.7	3207.0	2722.0
27.5°	2794.9	2811.6	2763.4	2664.6	2588.0	2544.7	2633.1	2735.0	3027.2	3289.8	2751.1
30°	3129.2	3134.7	3068.6	2964.8	2853.0	2760.3	2777.0	2840.7	3081.0	3398.5	2785.1
32.5°	3537.5	3561.0	3460.9	3296.6	3140.3	3021.7	2970.4	3011.2	3197.1	3527.0	2837.6
35°	4055.9	4063.9	3936.6	3701.3	3480.1	3315.8	3208.3	3229.9	3373.8	3706.8	2916.7
37.5°	4544.6	4552.6	4417.3	4198.6	3882.3	3657.4	3501.7	3491.8	3599.9	3960.7	3045.8
40°	4854.7	4877.6	4817.0	4679.9	4377.8	4074.4	3863.1	3829.2	3896.5	4271.5	3225.6
42.5°	5021.5	5031.4	5030.2	5048.1	4868.3	4566.8	4270.9	4202.9	4248.0	4607.0	3407.2
45°	5022.7	5047.5	5113.6	5285.9	5294.0	5106.2	4786.1	4679.9	4638.5	4944.9	3596.9
47.5°	4797.9	4824.4	5006.1	5345.2	5595.5	5638.1	5403.3	5190.2	5016.0	5235.9	3752.5
50°	4117.0	4183.8	4529.7	5129.6	5654.8	6064.4	5992.1	5703.0	5351.4	5460.8	3850.2
52.5°	3525.8	3523.3	3736.5	4520.5	5407.0	6252.2	6561.7	6230.6	5683.2	5603.5	3874.9
55°	2581.8	2596.0	2814.1	3457.2	4746.0	6070.5	6874.9	6716.2	6063.7	5679.5	3865.0
57.5°	1338.8	1409.2	1632.9	2206.2	3606.1	5445.3	6791.5	6897.2	6450.5	5733.2	3878.0
60°	676.5	662.9	743.2	1053.4	2089.4	4253.0	6277.5	6614.2	6520.3	5775.2	3886.0
62.5°	451.6	447.9	425.7	488.1	853.8	2518.8	5351.4	5823.4	6035.3	5676.4	3783.4
65°	391.1	383.7	342.9	340.4	414.5	1044.7	3922.4	4577.9	4988.2	5237.1	3538.2
67.5°	352.1	341.0	299.6	279.2	297.8	459.0	2210.5	3070.5	3683.3	4429.0	3000.7
70°	314.5	308.9	267.5	237.9	236.0	279.9	814.3	1584.7	2253.7	3021.7	2193.8
72.5°	281.7	271.8	236.6	208.2	194.0	198.3	353.4	610.4	1166.4	1884.9	1312.2
75°	244.0	236.6	205.7	177.3	160.0	145.2	215.6	282.3	531.9	895.8	619.7
77.5°	188.4	183.5	162.5	140.9	131.0	108.1	131.0	177.9	245.9	377.5	322.5
80°	109.4	112.4	121.1	110.0	96.4	77.2	85.3	102.6	147.7	204.5	182.9
82.5°	55.0	58.7	78.5	63.6	57.5	45.1	50.7	60.5	77.2	113.1	71.7
85°	4.3	4.3	14.2	16.1	19.8	16.1	20.4	24.7	35.2	45.1	24.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.1	5.6	10.5	6.8
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: P631370  
 CATALOG NUMBER: GWS-SA1F-750-U-AFL-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3	2154.3
2.5°	2158.0	2126.5	2088.8	2057.9	2010.3	1985.0	1952.9	1913.3	1897.3	1889.9	1885.5
5°	2162.3	2106.7	2026.4	1952.3	1870.1	1805.2	1732.9	1657.6	1614.3	1603.8	1596.4
7.5°	2178.4	2100.5	1972.6	1850.3	1697.7	1556.2	1418.5	1281.9	1212.1	1185.6	1183.1
10°	2200.6	2098.1	1918.3	1715.0	1457.4	1233.8	1072.5	965.6	920.5	905.7	900.8
12.5°	2228.4	2096.2	1846.6	1527.2	1180.0	968.7	876.7	859.4	865.5	864.3	864.3
15°	2263.6	2098.7	1760.1	1314.7	954.5	840.8	842.7	863.1	882.2	885.3	885.3
17.5°	2301.9	2096.2	1634.7	1101.5	819.2	810.6	839.0	867.4	884.7	887.2	887.2
20°	2343.3	2084.5	1476.6	900.8	759.9	791.4	822.3	844.5	855.0	857.5	857.5
22.5°	2368.0	2051.1	1304.8	762.4	722.2	761.1	781.5	804.4	805.6	785.8	785.2
25°	2364.3	1988.7	1109.0	673.4	682.1	716.0	742.0	725.9	706.2	695.0	693.2
27.5°	2340.9	1894.8	909.4	606.1	634.5	672.8	664.8	651.2	646.2	633.9	632.6
30°	2311.2	1779.3	730.2	553.6	585.1	620.3	607.9	606.7	601.7	588.1	588.1
32.5°	2282.8	1660.0	594.9	514.6	553.6	556.0	573.3	574.6	572.1	548.6	546.1
35°	2274.8	1540.8	503.5	483.7	522.7	521.4	546.1	545.5	502.9	470.1	469.5
37.5°	2298.8	1419.7	449.1	458.4	480.0	496.1	515.9	480.0	465.8	446.1	444.8
40°	2350.1	1307.9	421.3	443.6	452.9	476.3	445.4	447.9	444.2	429.4	427.5
42.5°	2418.1	1212.7	405.9	438.6	437.4	443.6	409.6	419.5	425.0	413.9	412.1
45°	2483.6	1130.0	397.9	420.1	426.3	390.5	383.7	392.9	401.6	397.2	395.4
47.5°	2531.8	1058.3	393.5	394.8	412.1	372.5	361.4	365.7	376.2	378.1	377.5
50°	2546.6	997.1	388.6	373.8	370.1	354.6	346.0	344.7	357.1	365.7	367.0
52.5°	2518.2	942.8	375.6	355.2	337.3	339.8	336.7	330.5	342.9	354.6	355.9
55°	2476.2	911.9	355.2	337.3	316.3	326.2	327.4	321.9	329.9	337.9	337.9
57.5°	2479.2	929.8	335.5	320.6	297.8	310.8	317.6	315.1	315.1	321.3	321.9
60°	2499.6	955.7	322.5	299.6	279.2	292.8	308.3	305.8	300.3	308.3	308.3
62.5°	2440.9	921.1	313.8	279.2	259.5	275.5	294.1	292.8	286.7	299.6	300.9
65°	2268.0	828.5	304.0	253.9	239.7	258.2	274.3	278.6	273.1	290.4	293.5
67.5°	1901.0	696.9	284.8	229.8	219.9	237.2	252.7	258.9	254.5	274.9	277.4
70°	1417.2	564.1	254.5	203.3	195.8	211.3	225.5	228.0	228.6	252.7	255.2
72.5°	903.8	438.6	214.4	173.6	168.0	179.8	190.3	200.2	204.5	227.4	226.7
75°	504.1	326.2	172.4	147.0	137.2	146.4	158.8	170.5	182.9	216.2	219.9
77.5°	290.4	229.2	136.5	118.0	106.3	116.1	126.6	143.3	180.4	209.4	205.7
80°	163.7	148.9	103.2	86.5	79.1	86.5	94.5	126.0	142.1	154.5	156.3
82.5°	76.6	83.4	70.4	53.1	53.1	58.1	65.5	97.6	107.5	87.7	76.6
85°	27.8	37.7	34.6	27.2	24.1	23.5	40.8	55.6	34.6	30.9	26.6
87.5°	7.4	10.5	9.9	6.8	3.7	3.1	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)