

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: P631315

Luminaire Tested: GWS-SA1F-740-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631315
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-740-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8579.2 lumens
Efficiency: N/A
Efficacy: 127.7 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

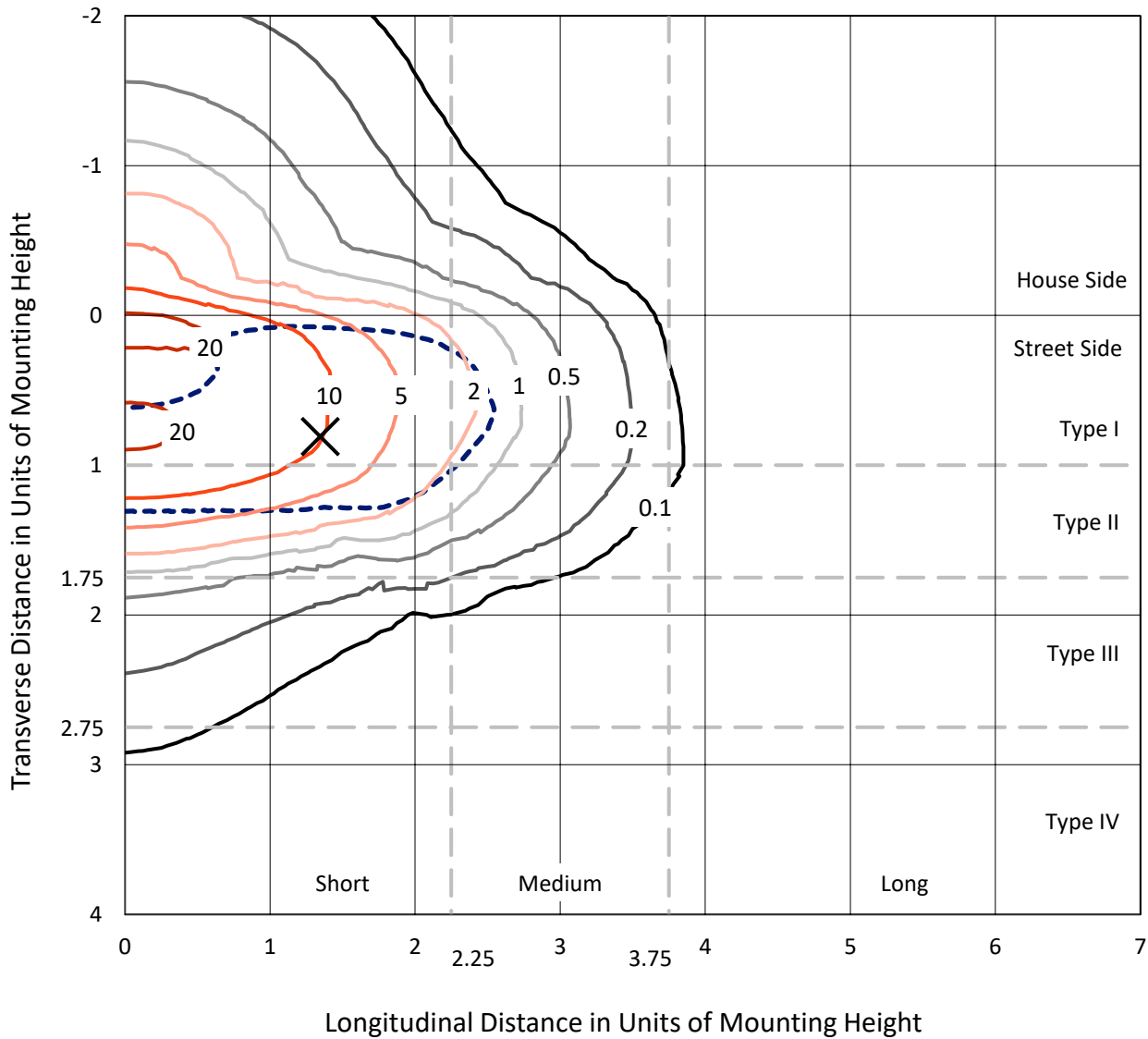
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631315
 CATALOG NUMBER: GWS-SA1F-740-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

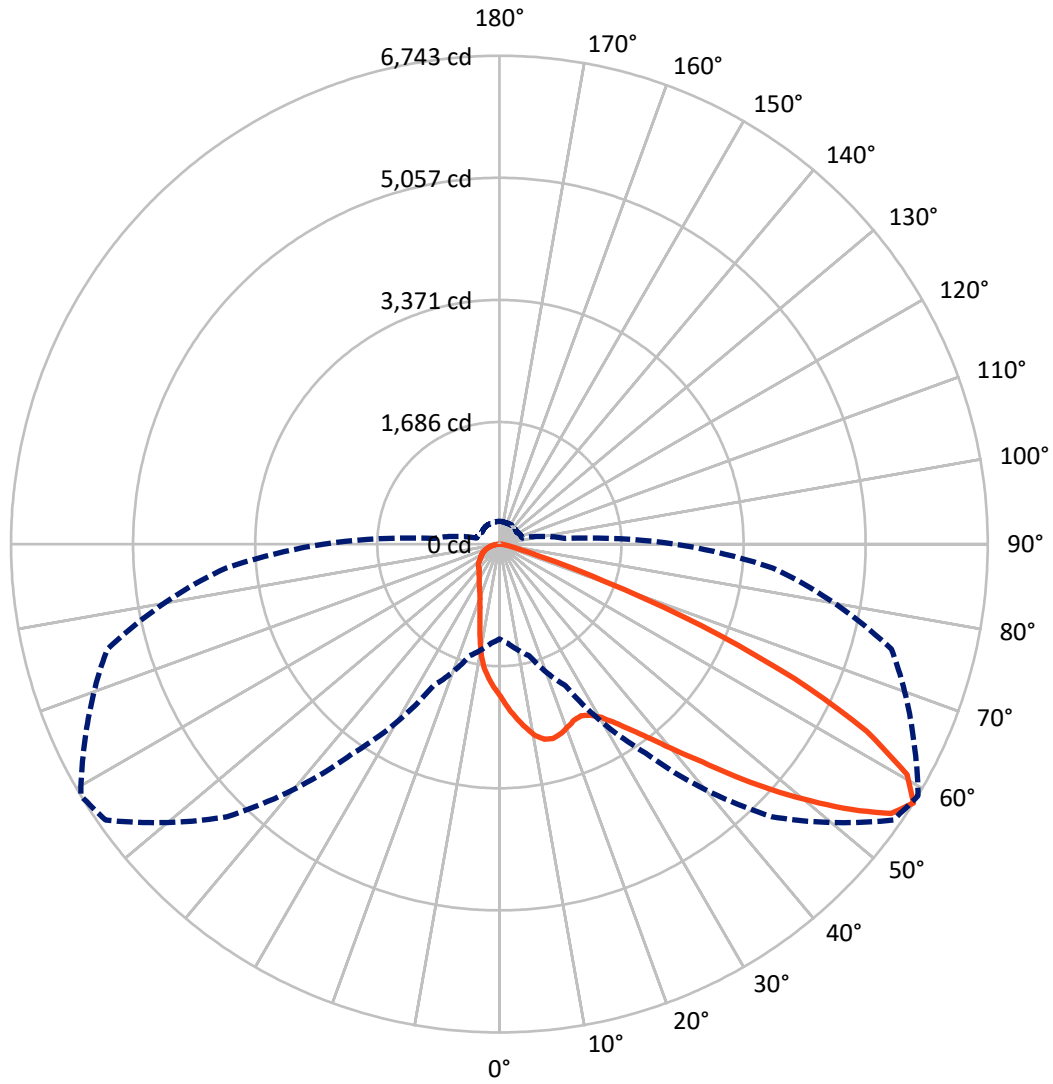
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.8 fc
 Type II - Short - N/A

REPORT NUMBER: P631315
CATALOG NUMBER: GWS-SA1F-740-U-AFL-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P631315

CATALOG NUMBER: GWS-SA1F-740-U-AFL-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1331.5	0.0	1331.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	7247.8	0.0	7247.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	8579.2	0.0	8579.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.6	2.3
10°-20°	495.5	5.8
20°-30°	803.2	9.4
30°-40°	1292.1	15.1
40°-50°	2006.5	23.4
50°-60°	2161.3	25.2
60°-70°	1254.3	14.6
70°-80°	327.5	3.8
80°-90°	43.1	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°	8579.2	100.0
0°-180°	8579.2	100.0

Coefficient of Utilization



REPORT NUMBER: P631315

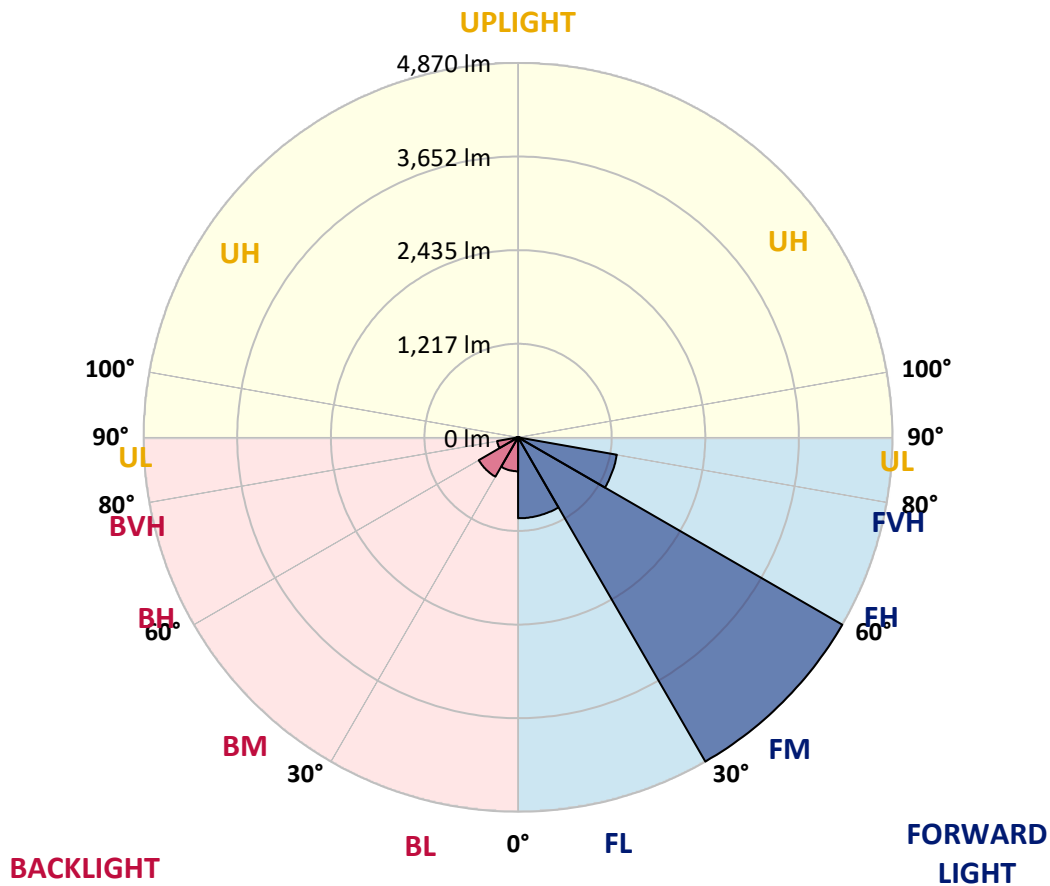
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1052.6	12.3			
FM (30°-60°)	4869.7	56.8			
FH (60°-80°)	1304.9	15.2			G1/1800
FVH (80°-90°)	20.7	0.2			G1/100
BL (0°-30°)	441.7	5.1	B1/500		
BM (30°-60°)	590.3	6.9	B1/1000		
BH (60°-80°)	276.9	3.2	B1/500		G1/500
BVH (80°-90°)	22.5	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: P631315

CATALOG NUMBER: GWS-SA1F-740-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0
2.5°	2388.7	2368.7	2382.6	2357.9	2347.6	2320.4	2285.4	2261.8	2225.6	2178.5	2137.4
5°	2626.0	2612.1	2615.2	2588.6	2565.0	2519.7	2447.9	2408.0	2346.4	2251.6	2163.4
7.5°	2618.8	2635.1	2644.2	2667.1	2673.7	2669.5	2604.9	2549.3	2481.7	2339.2	2206.3
10°	2347.6	2378.4	2406.2	2484.7	2580.1	2700.9	2716.0	2682.8	2614.6	2450.9	2257.6
12.5°	2052.3	2075.8	2100.6	2194.8	2341.0	2582.5	2746.2	2766.8	2739.6	2561.4	2315.6
15°	1907.3	1918.2	1941.7	2004.0	2120.5	2388.7	2693.7	2783.7	2832.6	2678.6	2380.8
17.5°	1901.3	1906.1	1917.6	1950.8	2031.7	2238.9	2598.9	2749.8	2905.7	2802.4	2456.9
20°	2026.3	2013.6	2006.4	2005.8	2045.6	2188.8	2507.1	2695.5	2940.1	2929.2	2538.5
22.5°	2199.6	2203.9	2188.2	2149.5	2144.7	2224.4	2461.2	2640.5	2950.4	3041.6	2614.0
25°	2445.4	2466.6	2420.1	2346.4	2310.2	2327.7	2489.5	2623.6	2949.2	3135.2	2661.1
27.5°	2732.3	2748.6	2701.5	2604.9	2530.0	2487.7	2574.1	2673.7	2959.4	3216.1	2689.5
30°	3059.1	3064.5	2999.9	2898.4	2789.1	2698.5	2714.8	2777.0	3012.0	3322.4	2722.7
32.5°	3458.3	3481.2	3383.4	3222.8	3069.9	2954.0	2903.9	2943.7	3125.5	3448.0	2774.0
35°	3965.0	3972.9	3848.5	3618.3	3402.1	3241.5	3136.4	3157.5	3298.2	3623.8	2851.3
37.5°	4442.8	4450.6	4318.3	4104.5	3795.3	3575.5	3423.3	3413.6	3519.3	3872.0	2977.5
40°	4745.9	4768.3	4709.1	4575.0	4279.7	3983.1	3776.6	3743.4	3809.2	4175.8	3153.3
42.5°	4909.0	4918.7	4917.5	4935.0	4759.2	4464.5	4175.2	4108.8	4152.9	4503.8	3330.9
45°	4910.2	4934.4	4999.0	5167.5	5175.4	4991.8	4678.9	4575.0	4534.6	4834.1	3516.3
47.5°	4690.4	4716.4	4893.9	5225.5	5470.1	5511.8	5282.3	5073.9	4903.6	5118.6	3668.5
50°	4024.8	4090.0	4428.3	5014.7	5528.1	5928.5	5857.8	5575.2	5231.5	5338.4	3763.9
52.5°	3446.8	3444.4	3652.8	4419.2	5285.9	6112.1	6414.7	6091.0	5555.9	5478.0	3788.1
55°	2524.0	2537.9	2751.1	3379.8	4639.7	5934.5	6720.9	6565.7	5927.9	5552.2	3778.4
57.5°	1308.8	1377.6	1596.3	2156.8	3525.3	5323.3	6639.4	6742.7	6306.0	5604.8	3791.1
60°	661.3	648.1	726.6	1029.8	2042.6	4157.7	6136.9	6466.0	6374.2	5645.9	3798.9
62.5°	441.5	437.9	416.1	477.1	834.7	2462.4	5231.5	5693.0	5900.1	5549.2	3698.7
65°	382.3	375.1	335.2	332.8	405.3	1021.3	3834.6	4475.4	4876.4	5119.8	3458.9
67.5°	344.3	333.4	292.9	273.0	291.1	448.7	2161.0	3001.7	3600.8	4329.8	2933.5
70°	307.4	302.0	261.5	232.5	230.7	273.6	796.0	1549.2	2203.3	2954.0	2144.7
72.5°	275.4	265.7	231.3	203.5	189.6	193.9	345.5	596.7	1140.3	1842.7	1282.8
75°	238.6	231.3	201.1	173.3	156.4	141.9	210.8	276.0	520.0	875.7	605.8
77.5°	184.2	179.4	158.8	137.7	128.0	105.7	128.0	173.9	240.4	369.0	315.3
80°	106.9	109.9	118.4	107.5	94.2	75.5	83.3	100.3	144.3	199.9	178.8
82.5°	53.8	57.4	76.7	62.2	56.2	44.1	49.5	59.2	75.5	110.5	70.1
85°	4.2	4.2	13.9	15.7	19.3	15.7	19.9	24.2	34.4	44.1	23.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.0	5.4	10.3	6.6
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: P631315
 CATALOG NUMBER: GWS-SA1F-740-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0	2106.0
2.5°	2109.6	2078.8	2042.0	2011.8	1965.3	1940.5	1909.1	1870.5	1854.8	1847.5	1843.3
5°	2113.9	2059.5	1981.0	1908.5	1828.2	1764.8	1694.1	1620.4	1578.2	1567.9	1560.6
7.5°	2129.6	2053.5	1928.5	1808.9	1659.7	1521.4	1386.7	1253.2	1185.0	1159.0	1156.6
10°	2151.3	2051.1	1875.3	1676.6	1424.8	1206.1	1048.5	944.0	899.9	885.4	880.6
12.5°	2178.5	2049.2	1805.2	1493.0	1153.6	947.0	857.0	840.1	846.2	844.9	844.9
15°	2212.9	2051.7	1720.7	1285.2	933.1	822.0	823.8	843.7	862.5	865.5	865.5
17.5°	2250.4	2049.2	1598.1	1076.9	800.9	792.4	820.2	848.0	864.9	867.3	867.3
20°	2290.8	2037.8	1443.5	880.6	742.9	773.7	803.9	825.6	835.9	838.3	838.3
22.5°	2315.0	2005.2	1275.6	745.3	706.0	744.1	764.0	786.4	787.6	768.2	767.6
25°	2311.4	1944.2	1084.1	658.3	666.8	700.0	725.4	709.7	690.3	679.5	677.6
27.5°	2288.4	1852.4	889.0	592.5	620.3	657.7	649.9	636.6	631.7	619.7	618.5
30°	2259.4	1739.4	713.9	541.2	572.0	606.4	594.3	593.1	588.3	575.0	575.0
32.5°	2231.6	1622.9	581.6	503.1	541.2	543.6	560.5	561.7	559.3	536.3	533.9
35°	2223.8	1506.3	492.2	472.9	511.0	509.7	533.9	533.3	491.6	459.6	459.0
37.5°	2247.3	1387.9	439.1	448.1	469.3	485.0	504.3	469.3	455.4	436.1	434.9
40°	2297.5	1278.6	411.9	433.6	442.7	465.7	435.5	437.9	434.3	419.8	417.9
42.5°	2363.9	1185.6	396.8	428.8	427.6	433.6	400.4	410.1	415.5	404.7	402.8
45°	2427.9	1104.6	389.0	410.7	416.7	381.7	375.1	384.1	392.6	388.3	386.5
47.5°	2475.0	1034.6	384.7	385.9	402.8	364.2	353.3	357.5	367.8	369.6	369.0
50°	2489.5	974.8	379.9	365.4	361.8	346.7	338.2	337.0	349.1	357.5	358.8
52.5°	2461.8	921.6	367.2	347.3	329.8	332.2	329.2	323.1	335.2	346.7	347.9
55°	2420.7	891.5	347.3	329.8	309.2	318.9	320.1	314.7	322.5	330.4	330.4
57.5°	2423.7	909.0	328.0	313.5	291.1	303.8	310.4	308.0	308.0	314.1	314.7
60°	2443.6	934.3	315.3	292.9	273.0	286.3	301.4	299.0	293.5	301.4	301.4
62.5°	2386.3	900.5	306.8	273.0	253.7	269.4	287.5	286.3	280.2	292.9	294.1
65°	2217.2	809.9	297.2	248.2	234.3	252.5	268.2	272.4	267.0	283.9	286.9
67.5°	1858.4	681.3	278.4	224.7	215.0	231.9	247.0	253.1	248.8	268.8	271.2
70°	1385.5	551.4	248.8	198.7	191.5	206.6	220.4	222.9	223.5	247.0	249.4
72.5°	883.6	428.8	209.6	169.7	164.3	175.8	186.0	195.7	199.9	222.3	221.7
75°	492.8	318.9	168.5	143.7	134.1	143.1	155.2	166.7	178.8	211.4	215.0
77.5°	283.9	224.1	133.5	115.4	103.9	113.5	123.8	140.1	176.4	204.7	201.1
80°	160.1	145.6	100.9	84.6	77.3	84.6	92.4	123.2	138.9	151.0	152.8
82.5°	74.9	81.5	68.9	51.9	51.9	56.8	64.0	95.4	105.1	85.8	74.9
85°	27.2	36.8	33.8	26.6	23.6	23.0	39.9	54.4	33.8	30.2	26.0
87.5°	7.2	10.3	9.7	6.6	3.6	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)