

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: P631150

Luminaire Tested: GWS-SA1F-727-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631150
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-727-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7174.8 lumens
Efficiency: N/A
Efficacy: 106.8 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

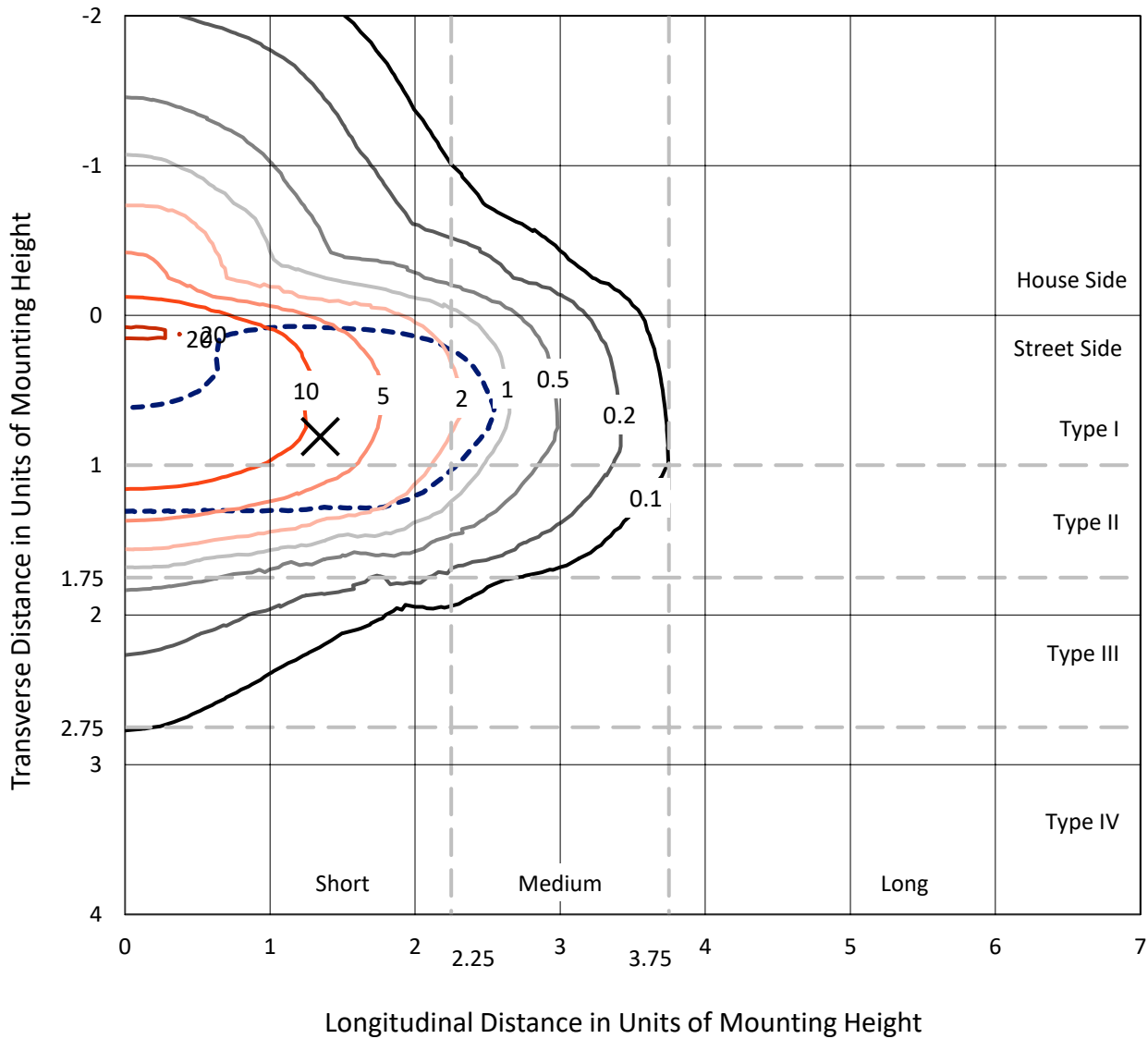
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

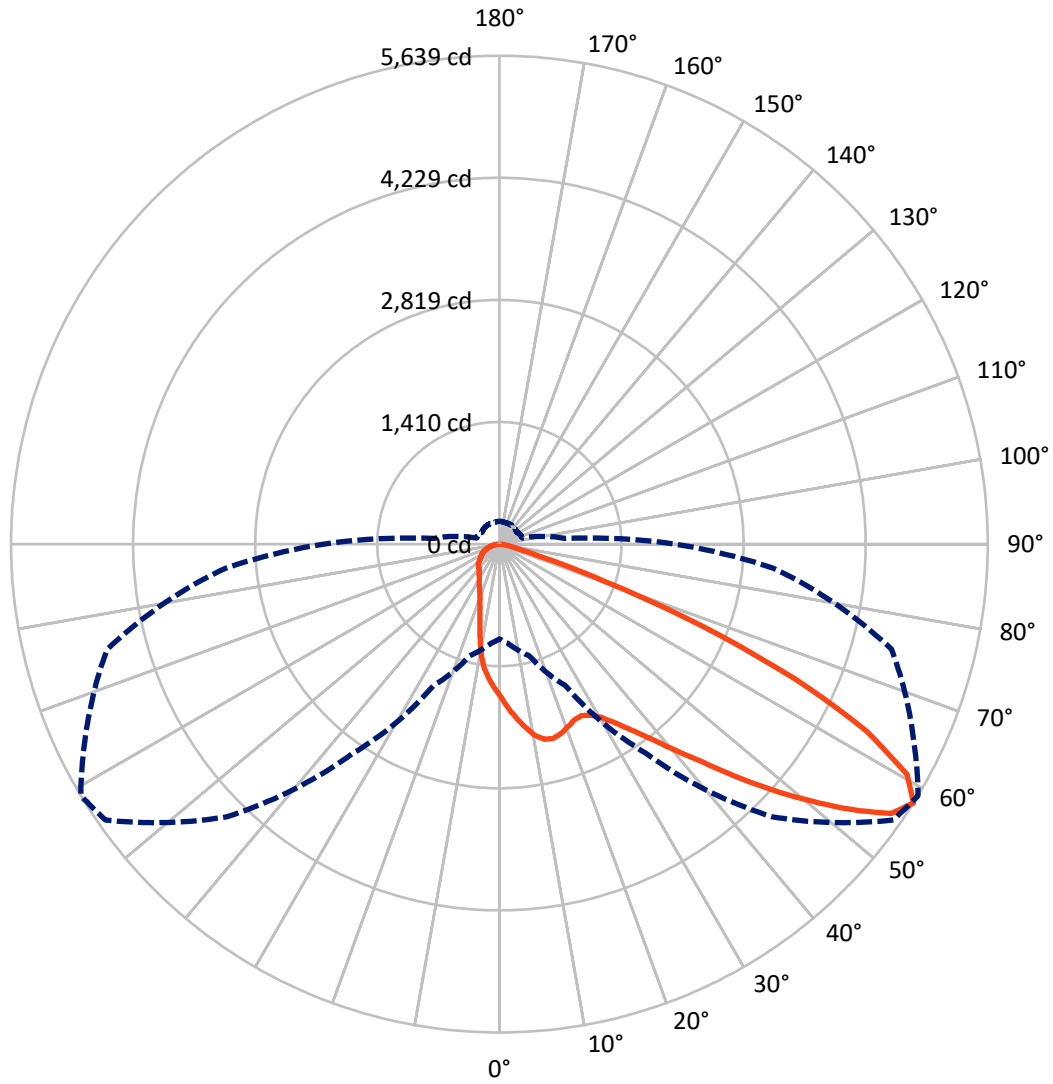
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.6 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	1113.5	0.0	1113.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	6061.3	0.0	6061.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	7174.8	0.0	7174.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	2.3
10°-20°	414.4	5.8
20°-30°	671.8	9.4
30°-40°	1080.6	15.1
40°-50°	1678.1	23.4
50°-60°	1807.5	25.2
60°-70°	1049.0	14.6
70°-80°	273.9	3.8
80°-90°	36.1	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°	7174.8	100.0
0°-180°	7174.8	100.0

Coefficient of Utilization



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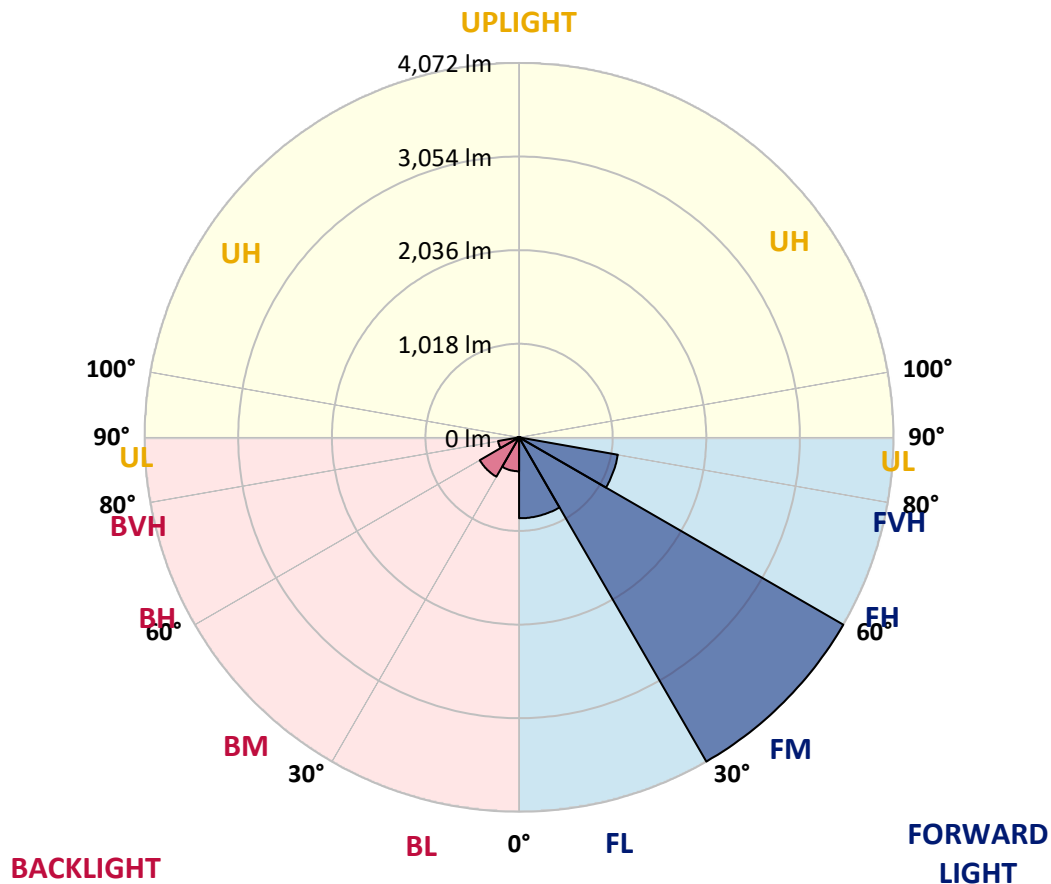
CATALOG NUMBER: GWS-SA1F-727-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	880.3	12.3			
FM (30°-60°)	4072.5	56.8			
FH (60°-80°)	1091.3	15.2			G1/1800
FVH (80°-90°)	17.3	0.2			G1/100
BL (0°-30°)	369.4	5.1	B1/500		
BM (30°-60°)	493.7	6.9	B1/1000		
BH (60°-80°)	231.6	3.2	B1/500		G1/500
BVH (80°-90°)	18.8	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°	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3
2.5°	1997.7	1981.0	1992.6	1971.9	1963.3	1940.6	1911.3	1891.6	1861.3	1821.9	1787.5
5°	2196.2	2184.5	2187.1	2164.8	2145.1	2107.3	2047.2	2013.8	1962.3	1883.0	1809.3
7.5°	2190.1	2203.7	2211.3	2230.5	2236.1	2232.5	2178.5	2132.0	2075.4	1956.2	1845.1
10°	1963.3	1989.1	2012.3	2078.0	2157.8	2258.8	2271.4	2243.6	2186.6	2049.7	1888.0
12.5°	1716.3	1736.0	1756.7	1835.5	1957.8	2159.8	2296.7	2313.8	2291.1	2142.1	1936.5
15°	1595.1	1604.2	1623.9	1675.9	1773.4	1997.7	2252.7	2328.0	2368.9	2240.1	1991.1
17.5°	1590.0	1594.1	1603.7	1631.5	1699.1	1872.4	2173.4	2299.7	2430.0	2343.6	2054.7
20°	1694.6	1684.0	1677.9	1677.4	1710.8	1830.5	2096.7	2254.2	2458.8	2449.7	2122.9
22.5°	1839.6	1843.1	1830.0	1797.6	1793.6	1860.3	2058.3	2208.3	2467.4	2543.7	2186.1
25°	2045.1	2062.8	2023.9	1962.3	1932.0	1946.6	2082.0	2194.1	2466.4	2622.0	2225.5
27.5°	2285.1	2298.7	2259.3	2178.5	2115.8	2080.5	2152.7	2236.1	2475.0	2689.6	2249.2
30°	2558.3	2562.9	2508.8	2424.0	2332.5	2256.8	2270.4	2322.4	2518.9	2778.5	2277.0
32.5°	2892.2	2911.4	2829.5	2695.2	2567.4	2470.4	2428.5	2461.8	2613.9	2883.6	2319.9
35°	3316.0	3322.5	3218.5	3026.0	2845.2	2710.9	2623.0	2640.6	2758.3	3030.6	2384.6
37.5°	3715.5	3722.1	3611.4	3432.6	3174.0	2990.2	2862.9	2854.8	2943.2	3238.2	2490.1
40°	3969.0	3987.7	3938.2	3826.1	3579.1	3331.1	3158.4	3130.6	3185.6	3492.2	2637.1
42.5°	4105.4	4113.5	4112.5	4127.1	3980.2	3733.7	3491.7	3436.2	3473.0	3766.5	2785.6
45°	4106.4	4126.6	4180.7	4321.6	4328.2	4174.6	3913.0	3826.1	3792.3	4042.8	2940.7
47.5°	3922.6	3944.3	4092.8	4370.1	4574.7	4609.5	4417.6	4243.3	4100.9	4280.7	3068.0
50°	3366.0	3420.5	3703.4	4193.8	4623.1	4958.0	4898.9	4662.5	4375.1	4464.5	3147.8
52.5°	2882.6	2880.6	3054.8	3695.8	4420.6	5111.6	5364.6	5093.9	4646.4	4581.2	3168.0
55°	2110.8	2122.4	2300.7	2826.5	3880.1	4963.1	5620.7	5490.9	4957.5	4643.3	3159.9
57.5°	1094.5	1152.1	1335.0	1803.7	2948.2	4451.9	5552.5	5638.9	5273.7	4687.3	3170.5
60°	553.1	542.0	607.6	861.2	1708.2	3477.1	5132.3	5407.6	5330.8	4721.6	3177.1
62.5°	369.2	366.2	348.0	399.0	698.0	2059.3	4375.1	4761.0	4934.3	4640.8	3093.2
65°	319.7	313.7	280.3	278.3	338.9	854.1	3206.9	3742.8	4078.1	4281.7	2892.7
67.5°	287.9	278.8	245.0	228.3	243.5	375.3	1807.2	2510.3	3011.4	3621.0	2453.3
70°	257.1	252.5	218.7	194.5	192.9	228.8	665.7	1295.6	1842.6	2470.4	1793.6
72.5°	230.3	222.2	193.5	170.2	158.6	162.1	288.9	499.0	953.6	1541.0	1072.8
75°	199.5	193.5	168.2	145.0	130.8	118.7	176.3	230.8	434.9	732.4	506.6
77.5°	154.1	150.0	132.8	115.2	107.1	88.4	107.1	145.5	201.0	308.6	263.7
80°	89.4	91.9	99.0	89.9	78.8	63.1	69.7	83.8	120.7	167.2	149.5
82.5°	45.0	48.0	64.1	52.0	47.0	36.9	41.4	49.5	63.1	92.4	58.6
85°	3.5	3.5	11.6	13.1	16.2	13.1	16.7	20.2	28.8	36.9	19.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.5	4.5	8.6	5.6
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°	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3	1761.3
2.5°	1764.3	1738.5	1707.7	1682.5	1643.6	1622.9	1596.6	1564.3	1551.1	1545.1	1541.6
5°	1767.8	1722.4	1656.7	1596.1	1528.9	1475.9	1416.8	1355.2	1319.8	1311.2	1305.2
7.5°	1781.0	1717.3	1612.8	1512.8	1388.0	1272.3	1159.7	1048.1	991.0	969.3	967.3
10°	1799.2	1715.3	1568.3	1402.1	1191.5	1008.7	876.8	789.5	752.6	740.5	736.4
12.5°	1821.9	1713.8	1509.7	1248.6	964.7	792.0	716.7	702.6	707.6	706.6	706.6
15°	1850.7	1715.8	1439.0	1074.8	780.4	687.4	689.0	705.6	721.3	723.8	723.8
17.5°	1882.0	1713.8	1336.5	900.6	669.8	662.7	685.9	709.2	723.3	725.3	725.3
20°	1915.8	1704.2	1207.2	736.4	621.3	647.0	672.3	690.5	699.1	701.1	701.1
22.5°	1936.0	1676.9	1066.8	623.3	590.5	622.3	638.9	657.6	658.6	642.5	642.0
25°	1933.0	1625.9	906.6	550.6	557.6	585.4	606.6	593.5	577.3	568.2	566.7
27.5°	1913.8	1549.1	743.5	495.5	518.7	550.0	543.5	532.4	528.3	518.2	517.2
30°	1889.6	1454.7	597.0	452.6	478.3	507.1	497.0	496.0	492.0	480.9	480.9
32.5°	1866.3	1357.2	486.4	420.7	452.6	454.6	468.7	469.7	467.7	448.5	446.5
35°	1859.8	1259.7	411.7	395.5	427.3	426.3	446.5	446.0	411.1	384.4	383.9
37.5°	1879.5	1160.7	367.2	374.8	392.5	405.6	421.8	392.5	380.8	364.7	363.7
40°	1921.4	1069.3	344.5	362.7	370.2	389.4	364.2	366.2	363.2	351.0	349.5
42.5°	1976.9	991.5	331.8	358.6	357.6	362.7	334.9	343.0	347.5	338.4	336.9
45°	2030.5	923.8	325.3	343.5	348.5	319.2	313.7	321.2	328.3	324.8	323.3
47.5°	2069.9	865.2	321.7	322.8	336.9	304.6	295.5	299.0	307.6	309.1	308.6
50°	2082.0	815.2	317.7	305.6	302.6	289.9	282.9	281.8	291.9	299.0	300.0
52.5°	2058.8	770.8	307.1	290.4	275.8	277.8	275.3	270.2	280.3	289.9	290.9
55°	2024.4	745.5	290.4	275.8	258.6	266.7	267.7	263.2	269.7	276.3	276.3
57.5°	2027.0	760.2	274.3	262.1	243.5	254.1	259.6	257.6	257.6	262.6	263.2
60°	2043.6	781.4	263.7	245.0	228.3	239.4	252.0	250.0	245.5	252.0	252.0
62.5°	1995.6	753.1	256.6	228.3	212.1	225.3	240.4	239.4	234.4	245.0	246.0
65°	1854.2	677.3	248.5	207.6	196.0	211.1	224.3	227.8	223.3	237.4	239.9
67.5°	1554.2	569.7	232.8	187.9	179.8	194.0	206.6	211.6	208.1	224.8	226.8
70°	1158.7	461.2	208.1	166.2	160.1	172.7	184.4	186.4	186.9	206.6	208.6
72.5°	739.0	358.6	175.3	141.9	137.4	147.0	155.6	163.7	167.2	185.9	185.4
75°	412.2	266.7	140.9	120.2	112.1	119.7	129.8	139.4	149.5	176.8	179.8
77.5°	237.4	187.4	111.6	96.5	86.9	95.0	103.5	117.2	147.5	171.2	168.2
80°	133.9	121.7	84.4	70.7	64.7	70.7	77.3	103.0	116.2	126.3	127.8
82.5°	62.6	68.2	57.6	43.4	43.4	47.5	53.5	79.8	87.9	71.7	62.6
85°	22.7	30.8	28.3	22.2	19.7	19.2	33.3	45.5	28.3	25.3	21.7
87.5°	6.1	8.6	8.1	5.6	3.0	2.5	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)