

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: P631148

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
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-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6391.9 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

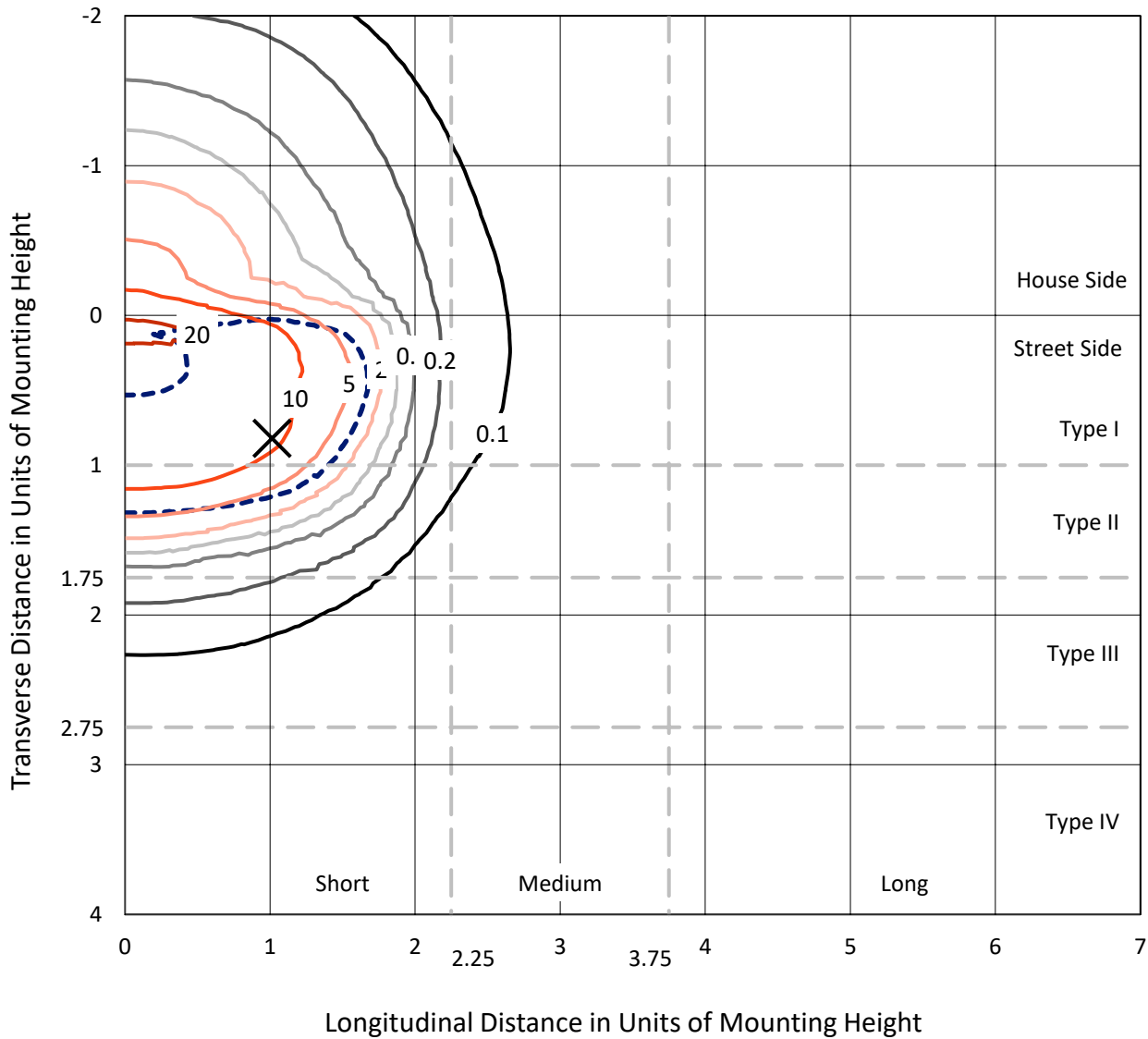
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

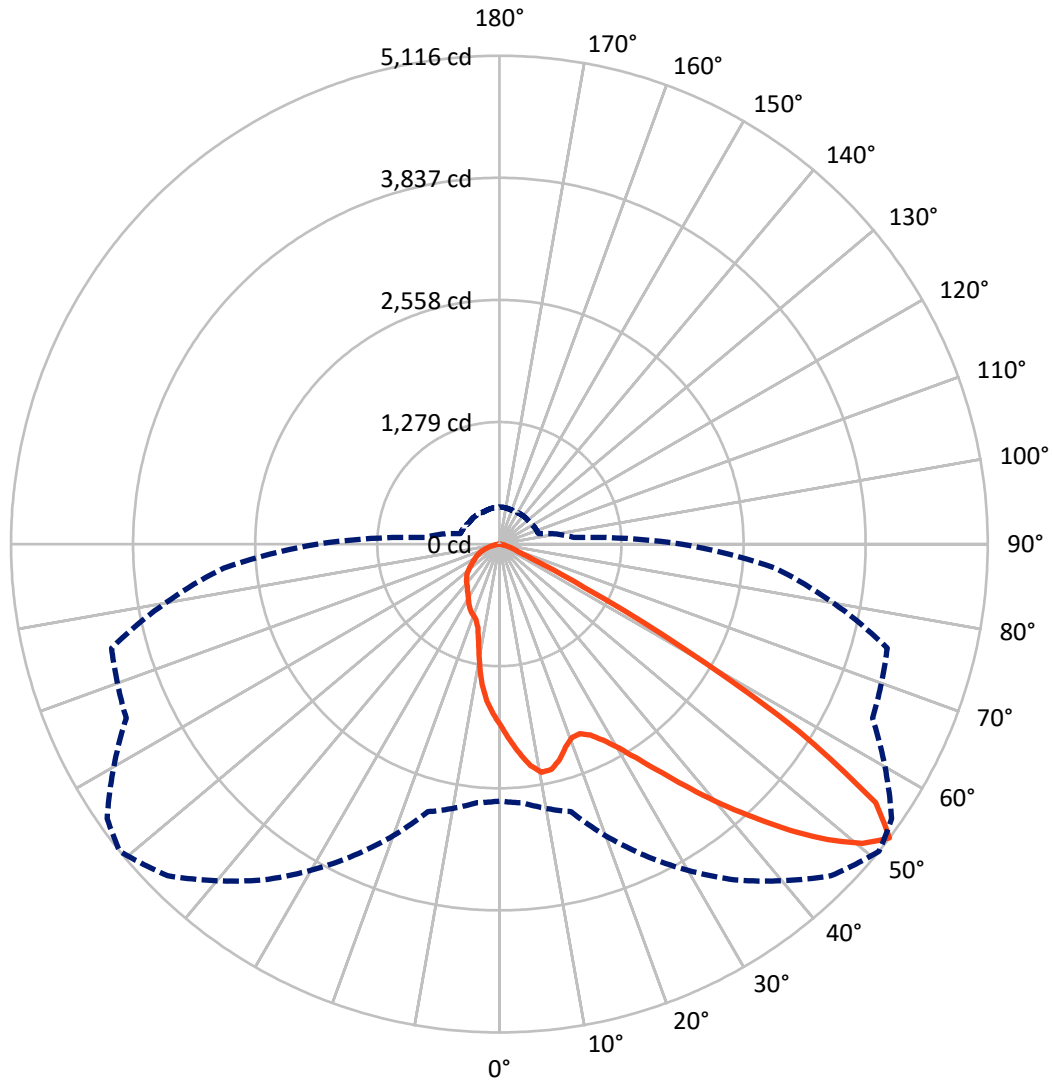
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1245.4	0.0	1245.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	5146.5	0.0	5146.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	6391.9	0.0	6391.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	2.8
10°-20°	461.5	7.2
20°-30°	750.3	11.7
30°-40°	1189.0	18.6
40°-50°	1793.3	28.1
50°-60°	1551.4	24.3
60°-70°	351.7	5.5
70°-80°	103.7	1.6
80°-90°	13.4	0.2
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°	6391.9	100.0
0°-180°	6391.9	100.0

Coefficient of Utilization



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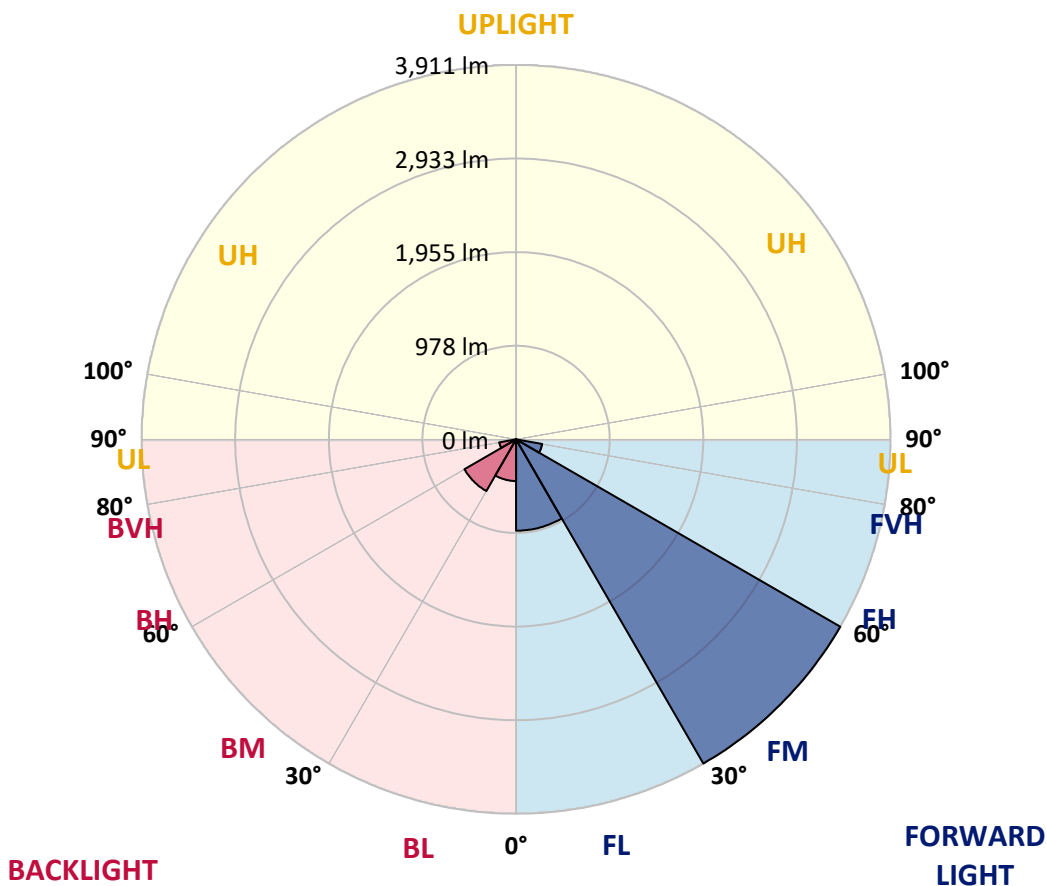
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	954.0	14.9			
FM (30°-60°)	3910.7	61.2			
FH (60°-80°)	276.8	4.3			G0/660
FVH (80°-90°)	5.0	0.1			G0/10
BL (0°-30°)	435.3	6.8	B1/500		
BM (30°-60°)	623.1	9.7	B1/1000		
BH (60°-80°)	178.6	2.8	B1/500		G1/500
BVH (80°-90°)	8.3	0.1			G0/10
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°	51°	55°	65°	75°	85°
0°	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2
2.5°	2120.9	2133.0	2114.3	2107.2	2095.6	2075.4	2052.2	2045.6	1995.6	1962.8	1925.9
5°	2334.0	2340.6	2325.4	2310.3	2281.5	2245.6	2200.7	2191.1	2100.2	2024.9	1946.6
7.5°	2381.5	2379.0	2392.1	2400.7	2397.2	2383.0	2343.1	2324.4	2215.8	2096.6	1981.0
10°	2193.6	2179.5	2228.0	2285.5	2354.7	2434.5	2430.0	2428.5	2334.0	2193.1	2024.9
12.5°	1944.6	1937.5	1976.9	2049.2	2180.0	2356.8	2422.9	2474.4	2440.6	2285.0	2073.9
15°	1802.2	1799.6	1826.4	1878.4	1982.5	2205.7	2347.2	2449.2	2532.0	2383.5	2125.9
17.5°	1776.4	1777.9	1787.0	1816.8	1891.6	2075.4	2239.1	2381.5	2603.2	2491.6	2191.1
20°	1851.7	1861.8	1846.1	1850.7	1891.1	2028.5	2165.3	2313.3	2648.7	2600.2	2261.3
22.5°	2018.9	2015.3	1981.0	1960.8	1961.3	2057.2	2157.2	2281.5	2678.5	2705.8	2324.9
25°	2208.3	2204.2	2163.3	2118.4	2090.1	2135.5	2215.3	2315.3	2705.3	2802.3	2376.0
27.5°	2432.0	2419.4	2373.9	2316.4	2253.7	2273.4	2327.5	2406.8	2746.7	2897.2	2409.8
30°	2648.7	2663.4	2598.2	2530.0	2463.8	2451.7	2483.0	2554.8	2831.0	3008.3	2450.2
32.5°	2936.1	2931.1	2858.8	2769.9	2675.5	2666.4	2691.1	2756.8	2982.6	3161.9	2511.8
35°	3284.1	3285.1	3182.6	3062.4	2928.0	2903.8	2945.2	3008.8	3208.3	3370.0	2609.3
37.5°	3645.8	3644.2	3554.8	3418.5	3235.1	3200.8	3248.2	3295.7	3490.7	3653.3	2760.8
40°	3899.3	3909.4	3867.5	3795.8	3622.0	3538.2	3580.1	3612.9	3797.8	3986.7	2960.3
42.5°	4043.3	4058.4	4067.5	4110.4	4019.0	3929.6	3914.5	3931.6	4072.1	4296.3	3147.7
45°	4074.1	4094.3	4160.4	4319.5	4354.9	4329.7	4280.2	4238.7	4276.6	4516.0	3270.5
47.5°	3938.2	3973.6	4115.0	4393.3	4599.9	4679.2	4624.1	4561.0	4394.8	4572.6	3257.8
50°	3399.8	3441.2	3759.9	4242.8	4634.7	4923.6	4928.7	4835.2	4380.7	4409.5	3099.2
52.5°	2691.6	2719.9	2902.3	3596.8	4292.8	4913.5	5115.6	5015.6	4312.5	4205.4	2900.7
55°	1608.7	1654.2	1824.4	2372.9	3344.2	4354.9	4785.2	4833.7	4279.1	4034.2	2765.4
57.5°	543.0	565.2	727.8	1048.1	1970.9	3188.6	3697.3	3894.3	3884.7	3772.5	2501.2
60°	258.6	263.7	296.5	397.5	789.0	1666.3	2188.6	2415.9	2622.9	2643.7	1556.2
62.5°	197.0	200.0	216.7	238.4	317.2	702.1	1003.1	1176.9	1257.2	1078.9	566.7
65°	164.7	167.2	179.8	193.5	215.7	304.1	384.9	444.0	400.0	311.6	270.2
67.5°	137.4	139.4	149.0	163.6	178.8	203.6	213.7	219.7	230.3	258.6	248.5
70°	107.6	109.6	119.7	132.3	147.0	153.0	162.6	168.7	189.9	226.3	225.3
72.5°	82.8	85.4	90.9	99.0	111.1	117.2	127.8	134.9	147.0	176.3	188.4
75°	60.6	62.1	67.2	69.7	71.2	69.7	80.3	88.4	104.6	115.7	118.7
77.5°	24.7	27.8	26.8	26.8	31.8	38.4	43.9	49.0	60.1	66.7	67.2
80°	10.1	11.1	13.1	14.6	17.7	22.7	26.3	28.3	33.3	37.4	40.4
82.5°	6.1	6.6	7.6	8.1	10.1	13.1	15.2	16.7	20.7	24.7	26.3
85°	3.0	3.0	3.5	4.0	5.1	6.1	7.1	8.1	10.6	13.1	14.6
87.5°	0.5	0.5	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	5.1
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°	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2
2.5°	1904.2	1876.9	1845.1	1819.8	1790.6	1768.8	1738.0	1718.8	1700.6	1685.5	1674.4
5°	1906.2	1860.3	1794.1	1735.5	1674.9	1617.3	1558.2	1510.2	1467.3	1431.4	1428.4
7.5°	1917.8	1851.7	1748.1	1645.6	1527.4	1413.2	1299.1	1206.2	1135.4	1098.6	1091.0
10°	1937.5	1850.7	1701.2	1537.5	1336.0	1152.1	1016.8	946.0	905.1	890.5	885.4
12.5°	1958.2	1848.1	1641.0	1385.0	1105.1	944.0	869.8	861.2	868.8	869.8	869.3
15°	1983.5	1846.6	1565.3	1206.2	936.4	847.5	852.6	870.8	888.5	892.5	892.5
17.5°	2014.3	1843.1	1462.2	1031.4	830.9	828.9	855.6	879.9	896.5	899.6	899.6
20°	2046.6	1834.0	1335.5	889.0	787.9	817.2	846.0	864.7	876.3	880.4	880.9
22.5°	2068.9	1809.7	1189.5	783.4	761.2	795.0	815.7	834.9	834.9	824.8	821.8
25°	2073.4	1757.7	1031.4	711.2	729.4	760.7	781.9	770.8	750.1	742.0	741.5
27.5°	2056.7	1682.0	875.3	659.7	691.0	722.3	718.7	702.6	693.5	685.4	688.4
30°	2036.5	1591.0	740.0	617.2	646.5	677.3	665.2	659.7	653.1	644.0	646.0
32.5°	2022.9	1489.5	635.9	584.4	616.7	621.8	630.4	629.9	623.8	606.6	605.6
35°	2026.9	1387.0	566.2	557.6	592.0	589.9	606.1	603.1	561.2	537.4	535.9
37.5°	2059.3	1288.5	525.3	536.4	552.6	565.2	579.3	543.0	528.3	513.2	514.2
40°	2120.9	1197.1	503.1	524.8	528.8	547.5	514.7	514.2	507.6	494.0	493.5
42.5°	2190.6	1119.8	487.9	519.2	513.7	517.2	482.4	486.4	485.9	477.3	474.8
45°	2233.0	1048.6	475.8	498.5	500.0	464.7	454.1	458.6	461.1	456.6	456.1
47.5°	2189.1	966.7	463.2	466.7	479.8	440.9	427.8	428.3	432.9	433.4	431.3
50°	2065.8	875.3	448.0	439.4	430.8	416.2	404.1	401.5	406.1	410.6	412.2
52.5°	1906.7	787.9	422.8	409.6	389.4	389.4	383.9	375.8	381.8	387.9	389.9
55°	1790.0	723.3	386.9	372.3	350.0	357.6	356.6	349.5	357.6	362.2	363.7
57.5°	1551.1	581.4	340.4	335.9	317.2	326.3	328.3	319.2	315.2	316.2	317.7
60°	920.8	375.3	307.1	306.6	289.9	300.5	306.6	297.5	285.4	286.9	288.9
62.5°	413.2	286.9	265.2	263.2	262.6	276.3	282.9	274.3	257.1	258.6	260.6
65°	260.1	248.0	230.3	230.3	238.4	250.0	255.1	248.0	228.3	225.8	227.8
67.5°	241.4	230.8	212.6	209.1	213.1	222.7	223.3	209.6	198.0	196.0	196.0
70°	216.7	208.6	190.9	183.9	182.3	181.8	180.3	176.8	169.2	167.2	168.2
72.5°	179.3	173.8	162.6	155.1	151.0	150.5	144.5	141.4	134.9	133.8	133.3
75°	118.7	120.2	120.2	119.2	115.7	114.2	107.6	104.6	97.0	93.9	93.4
77.5°	70.2	71.7	73.7	74.2	73.7	73.7	67.7	64.1	56.6	52.5	51.5
80°	42.9	43.9	45.0	46.5	44.4	42.9	37.4	33.8	30.3	27.8	27.3
82.5°	27.8	28.8	29.3	30.3	29.3	27.3	22.7	20.7	18.2	16.2	15.7
85°	15.7	16.2	17.2	17.2	15.7	14.1	11.6	10.1	8.6	7.6	7.6
87.5°	5.6	5.6	5.6	6.1	5.1	4.5	3.0	2.0	1.5	1.5	1.5
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)