

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: P631920

Luminaire Tested: GWS-SA2B-760-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631920
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-SA2B-760-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7090.1 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

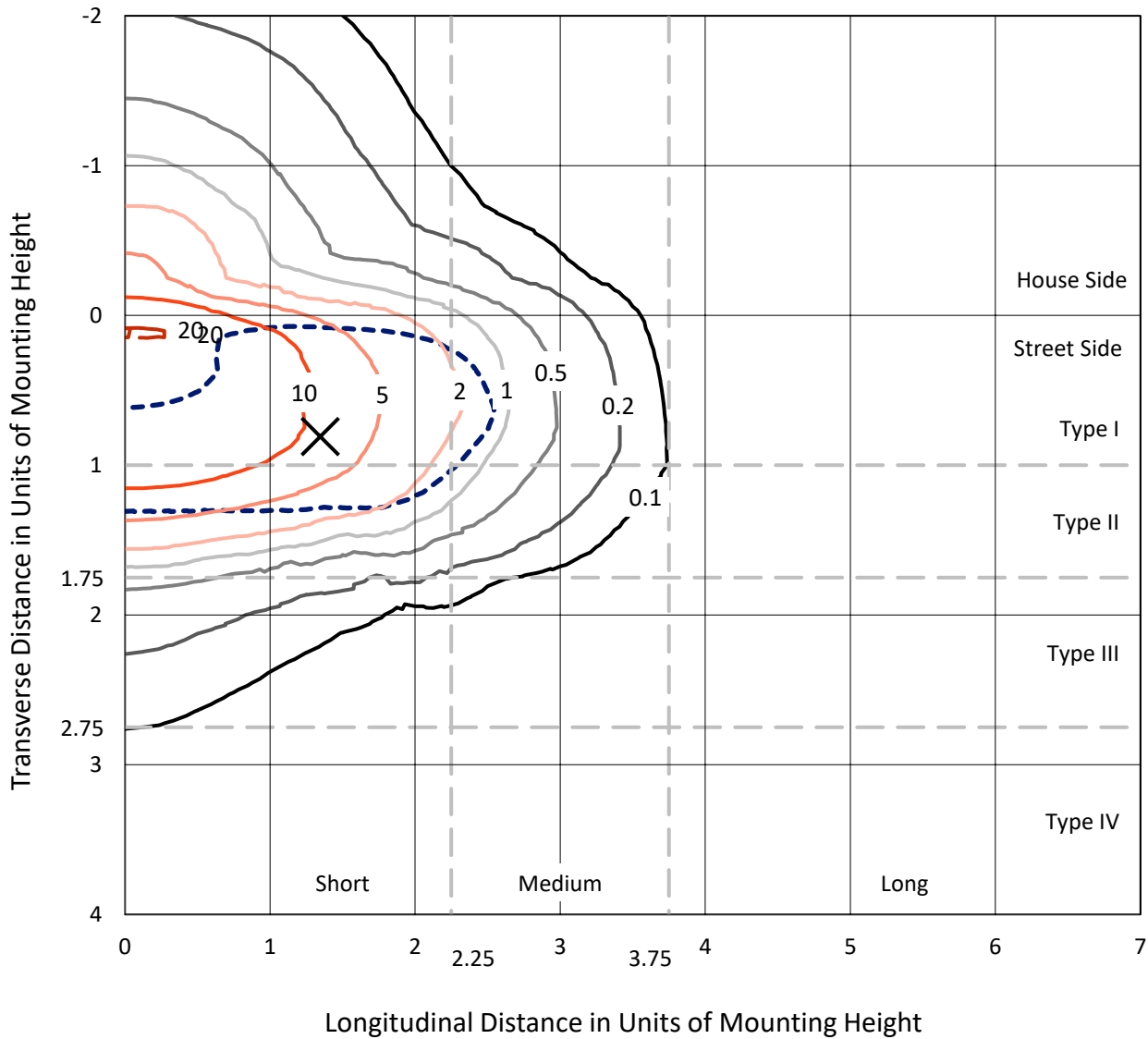
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

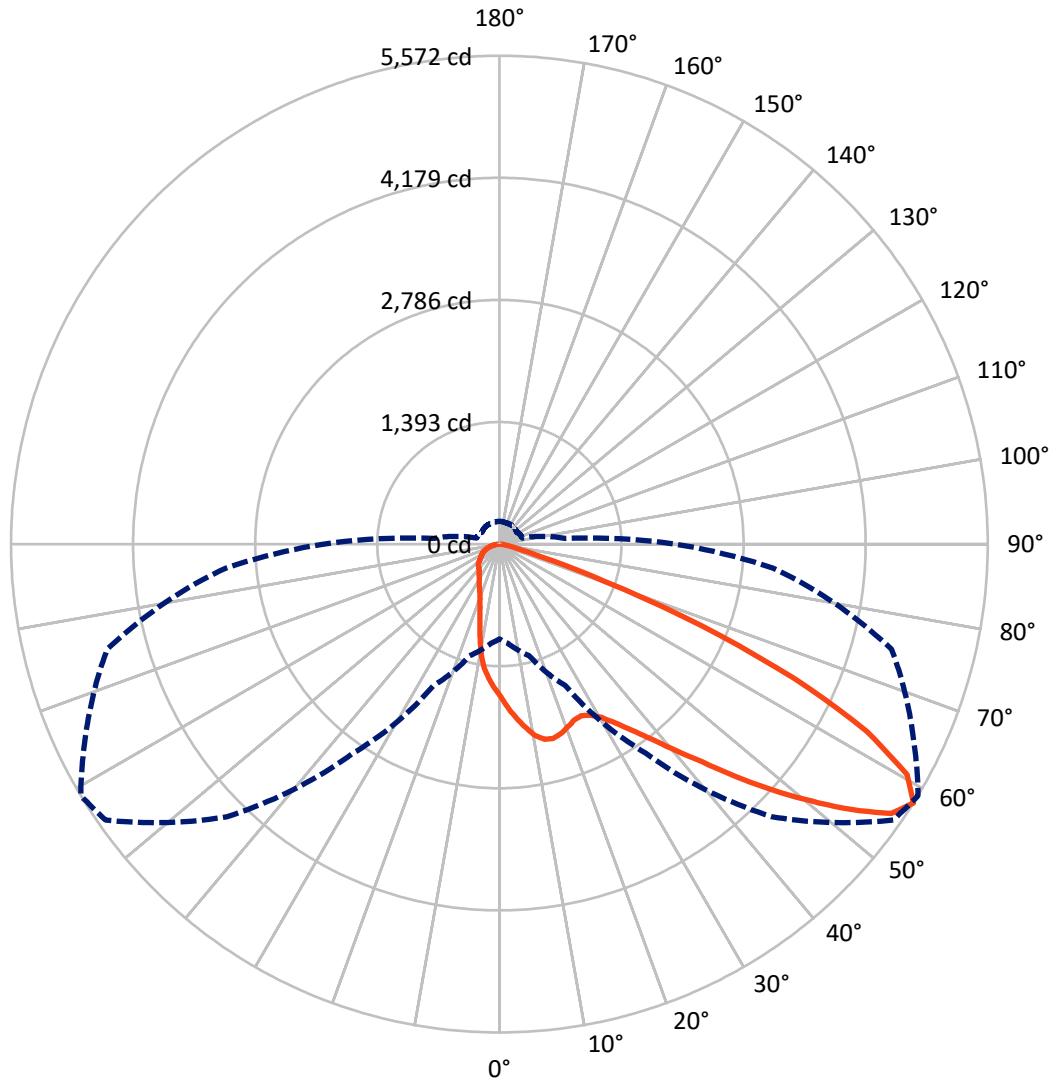
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.3 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	1100.3	0.0	1100.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	5989.8	0.0	5989.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	7090.1	0.0	7090.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	2.3
10°-20°	409.5	5.8
20°-30°	663.8	9.4
30°-40°	1067.8	15.1
40°-50°	1658.3	23.4
50°-60°	1786.2	25.2
60°-70°	1036.6	14.6
70°-80°	270.6	3.8
80°-90°	35.7	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°	7090.1	100.0
0°-180°	7090.1	100.0

Coefficient of Utilization



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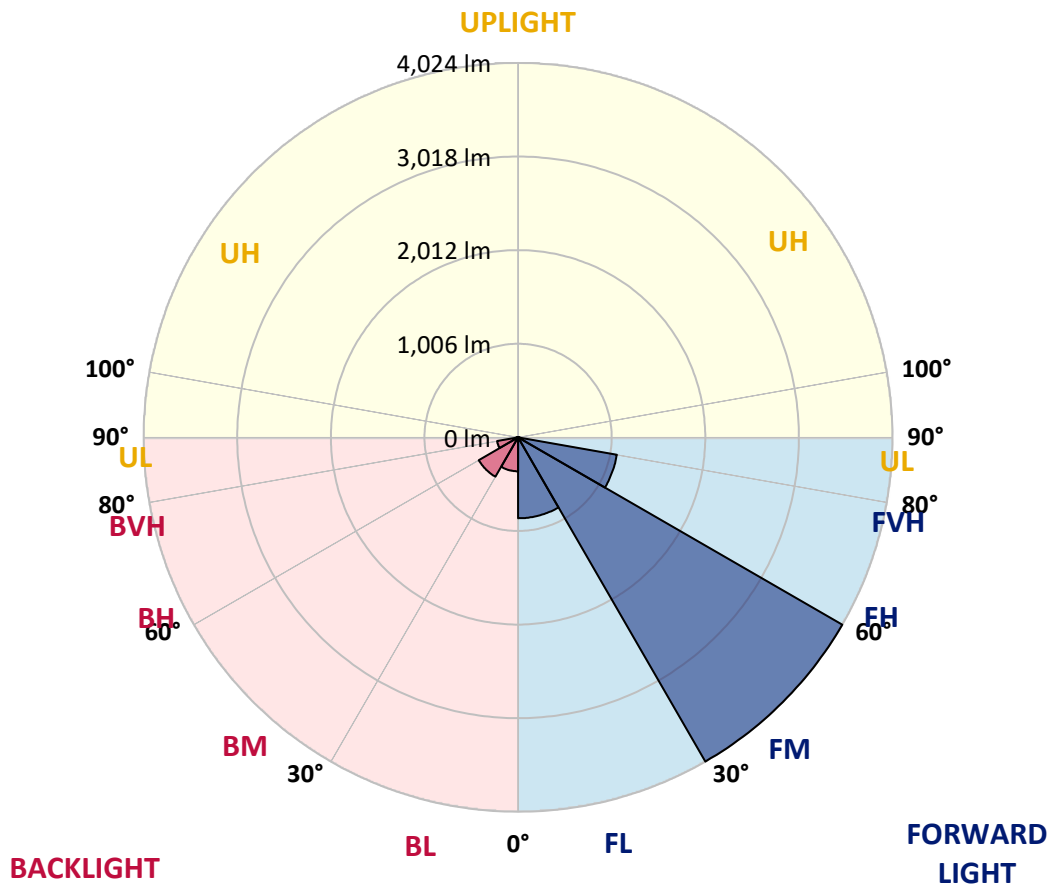
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	869.9	12.3			
FM (30°-60°)	4024.4	56.8			
FH (60°-80°)	1078.4	15.2			G1/1800
FVH (80°-90°)	17.1	0.2			G1/100
BL (0°-30°)	365.1	5.1	B1/500		
BM (30°-60°)	487.8	6.9	B1/1000		
BH (60°-80°)	228.9	3.2	B1/500		G1/500
BVH (80°-90°)	18.6	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°	1740.5	1740.5	1740.5	1740.5	1740.5	1740.5	1740.5	1740.5	1740.5	1740.5	1740.5
2.5°	1974.1	1957.6	1969.1	1948.6	1940.1	1917.7	1888.7	1869.3	1839.3	1800.4	1766.4
5°	2170.2	2158.8	2161.2	2139.3	2119.8	2082.4	2023.0	1990.0	1939.1	1860.8	1787.9
7.5°	2164.2	2177.7	2185.2	2204.2	2209.7	2206.2	2152.8	2106.8	2050.9	1933.1	1823.3
10°	1940.1	1965.6	1988.5	2053.4	2132.3	2232.1	2244.6	2217.2	2160.7	2025.5	1865.8
12.5°	1696.1	1715.5	1736.0	1813.9	1934.6	2134.3	2269.6	2286.5	2264.1	2116.8	1913.7
15°	1576.3	1585.2	1604.7	1656.1	1752.5	1974.1	2226.1	2300.5	2340.9	2213.7	1967.6
17.5°	1571.3	1575.3	1584.7	1612.2	1679.1	1850.3	2147.8	2272.6	2401.3	2316.0	2030.5
20°	1674.6	1664.1	1658.1	1657.6	1690.6	1808.9	2071.9	2227.6	2429.8	2420.8	2097.9
22.5°	1817.8	1821.3	1808.4	1776.4	1772.4	1838.3	2034.0	2182.2	2438.3	2513.6	2160.2
25°	2021.0	2038.5	2000.0	1939.1	1909.2	1923.7	2057.4	2168.2	2437.3	2591.0	2199.2
27.5°	2258.1	2271.6	2232.6	2152.8	2090.9	2055.9	2127.3	2209.7	2445.8	2657.9	2222.6
30°	2528.1	2532.6	2479.2	2395.3	2305.0	2230.1	2243.6	2295.0	2489.2	2745.7	2250.1
32.5°	2858.0	2877.0	2796.1	2663.4	2537.1	2441.3	2399.8	2432.8	2583.0	2849.6	2292.5
35°	3276.8	3283.3	3180.5	2990.3	2811.6	2678.8	2592.0	2609.5	2725.8	2994.8	2356.4
37.5°	3671.6	3678.1	3568.8	3392.1	3136.6	2954.9	2829.1	2821.1	2908.4	3199.9	2460.7
40°	3922.2	3940.7	3891.7	3780.9	3536.9	3291.8	3121.1	3093.6	3148.0	3451.0	2606.0
42.5°	4057.0	4064.9	4063.9	4078.4	3933.2	3689.6	3450.5	3395.6	3432.0	3722.0	2752.7
45°	4058.0	4077.9	4131.3	4270.6	4277.1	4125.3	3866.8	3780.9	3747.5	3995.1	2906.0
47.5°	3876.3	3897.7	4044.5	4318.5	4520.7	4555.1	4365.4	4193.2	4052.5	4230.2	3031.7
50°	3326.2	3380.1	3659.6	4144.3	4568.6	4899.5	4841.1	4607.5	4323.5	4411.8	3110.6
52.5°	2848.6	2846.6	3018.8	3652.2	4368.4	5051.2	5301.3	5033.8	4591.5	4527.1	3130.6
55°	2085.9	2097.4	2273.6	2793.1	3834.3	4904.5	5554.4	5426.1	4899.0	4588.5	3122.6
57.5°	1081.6	1138.5	1319.2	1782.4	2913.4	4399.4	5487.0	5572.3	5211.5	4632.0	3133.1
60°	546.6	535.6	600.5	851.0	1688.1	3436.0	5071.7	5343.7	5267.9	4665.9	3139.5
62.5°	364.9	361.9	343.9	394.3	689.8	2035.0	4323.5	4704.8	4876.0	4586.0	3056.7
65°	316.0	310.0	277.0	275.0	334.9	844.0	3169.0	3698.6	4030.0	4231.2	2858.5
67.5°	284.5	275.5	242.1	225.6	240.6	370.9	1785.9	2480.7	2975.8	3578.3	2424.3
70°	254.1	249.6	216.1	192.2	190.7	226.1	657.9	1280.3	1820.8	2441.3	1772.4
72.5°	227.6	219.6	191.2	168.2	156.7	160.2	285.5	493.1	942.4	1522.9	1060.2
75°	197.2	191.2	166.2	143.3	129.3	117.3	174.2	228.1	429.8	723.7	500.6
77.5°	152.2	148.2	131.3	113.8	105.8	87.3	105.8	143.8	198.7	305.0	260.5
80°	88.3	90.8	97.8	88.8	77.9	62.4	68.9	82.9	119.3	165.2	147.7
82.5°	44.4	47.4	63.4	51.4	46.4	36.4	40.9	48.9	62.4	91.3	57.9
85°	3.5	3.5	11.5	13.0	16.0	13.0	16.5	20.0	28.5	36.4	19.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.5	4.5	8.5	5.5
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°	1740.5	1740.5	1740.5	1740.5	1740.5	1740.5	1740.5	1740.5	1740.5	1740.5	1740.5
2.5°	1743.5	1718.0	1687.6	1662.6	1624.2	1603.7	1577.8	1545.8	1532.8	1526.8	1523.4
5°	1747.0	1702.0	1637.2	1577.3	1510.9	1458.5	1400.1	1339.2	1304.2	1295.8	1289.8
7.5°	1759.9	1697.1	1593.7	1494.9	1371.6	1257.3	1146.0	1035.7	979.3	957.8	955.8
10°	1777.9	1695.1	1549.8	1385.6	1177.5	996.8	866.5	780.1	743.7	731.7	727.7
12.5°	1800.4	1693.6	1491.9	1233.9	953.3	782.6	708.3	694.3	699.3	698.3	698.3
15°	1828.8	1695.6	1422.0	1062.2	771.2	679.3	680.8	697.3	712.8	715.3	715.3
17.5°	1859.8	1693.6	1320.7	890.0	661.9	654.9	677.8	700.8	714.8	716.8	716.8
20°	1893.2	1684.1	1192.9	727.7	613.9	639.4	664.3	682.3	690.8	692.8	692.8
22.5°	1913.2	1657.1	1054.2	615.9	583.5	614.9	631.4	649.9	650.9	634.9	634.4
25°	1910.2	1606.7	895.9	544.1	551.0	578.5	599.5	586.5	570.5	561.5	560.0
27.5°	1891.2	1530.8	734.7	489.6	512.6	543.6	537.1	526.1	522.1	512.1	511.1
30°	1867.3	1437.5	590.0	447.2	472.7	501.1	491.1	490.1	486.2	475.2	475.2
32.5°	1844.3	1341.2	480.7	415.8	447.2	449.2	463.2	464.2	462.2	443.2	441.2
35°	1837.8	1244.8	406.8	390.8	422.3	421.3	441.2	440.7	406.3	379.8	379.3
37.5°	1857.3	1147.0	362.9	370.4	387.8	400.8	416.8	387.8	376.3	360.4	359.4
40°	1898.7	1056.7	340.4	358.4	365.9	384.8	359.9	361.9	358.9	346.9	345.4
42.5°	1953.6	979.8	327.9	354.4	353.4	358.4	330.9	338.9	343.4	334.4	332.9
45°	2006.5	912.9	321.4	339.4	344.4	315.5	310.0	317.4	324.4	320.9	319.4
47.5°	2045.4	855.0	317.9	318.9	332.9	301.0	292.0	295.5	304.0	305.5	305.0
50°	2057.4	805.6	314.0	302.0	299.0	286.5	279.5	278.5	288.5	295.5	296.5
52.5°	2034.5	761.7	303.5	287.0	272.5	274.5	272.0	267.0	277.0	286.5	287.5
55°	2000.5	736.7	287.0	272.5	255.6	263.5	264.5	260.0	266.5	273.0	273.0
57.5°	2003.0	751.2	271.0	259.1	240.6	251.1	256.6	254.6	254.6	259.5	260.0
60°	2019.5	772.2	260.5	242.1	225.6	236.6	249.1	247.1	242.6	249.1	249.1
62.5°	1972.1	744.2	253.6	225.6	209.6	222.6	237.6	236.6	231.6	242.1	243.1
65°	1832.3	669.3	245.6	205.1	193.7	208.6	221.6	225.1	220.6	234.6	237.1
67.5°	1535.8	563.0	230.1	185.7	177.7	191.7	204.1	209.1	205.6	222.1	224.1
70°	1145.0	455.7	205.6	164.2	158.2	170.7	182.2	184.2	184.7	204.1	206.1
72.5°	730.2	354.4	173.2	140.3	135.8	145.2	153.7	161.7	165.2	183.7	183.2
75°	407.3	263.5	139.3	118.8	110.8	118.3	128.3	137.8	147.7	174.7	177.7
77.5°	234.6	185.2	110.3	95.3	85.9	93.8	102.3	115.8	145.7	169.2	166.2
80°	132.3	120.3	83.4	69.9	63.9	69.9	76.4	101.8	114.8	124.8	126.3
82.5°	61.9	67.4	56.9	42.9	42.9	46.9	52.9	78.9	86.8	70.9	61.9
85°	22.5	30.4	28.0	22.0	19.5	19.0	32.9	44.9	28.0	25.0	21.5
87.5°	6.0	8.5	8.0	5.5	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)