

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: P630765

Luminaire Tested: GWS-SA1E-735-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630765
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-SA1E-735-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7610.6 lumens
Efficiency: N/A
Efficacy: 130.3 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

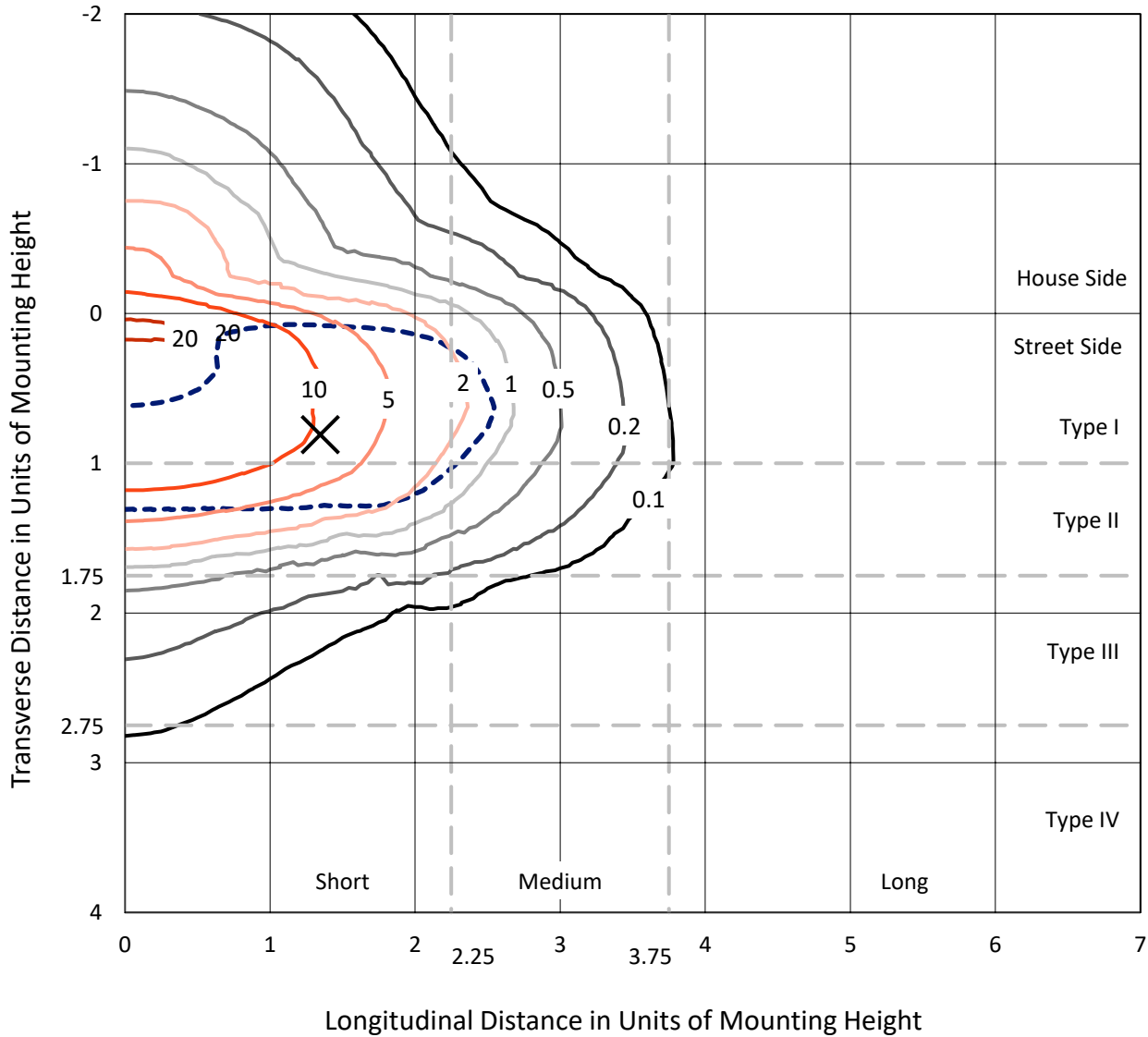
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

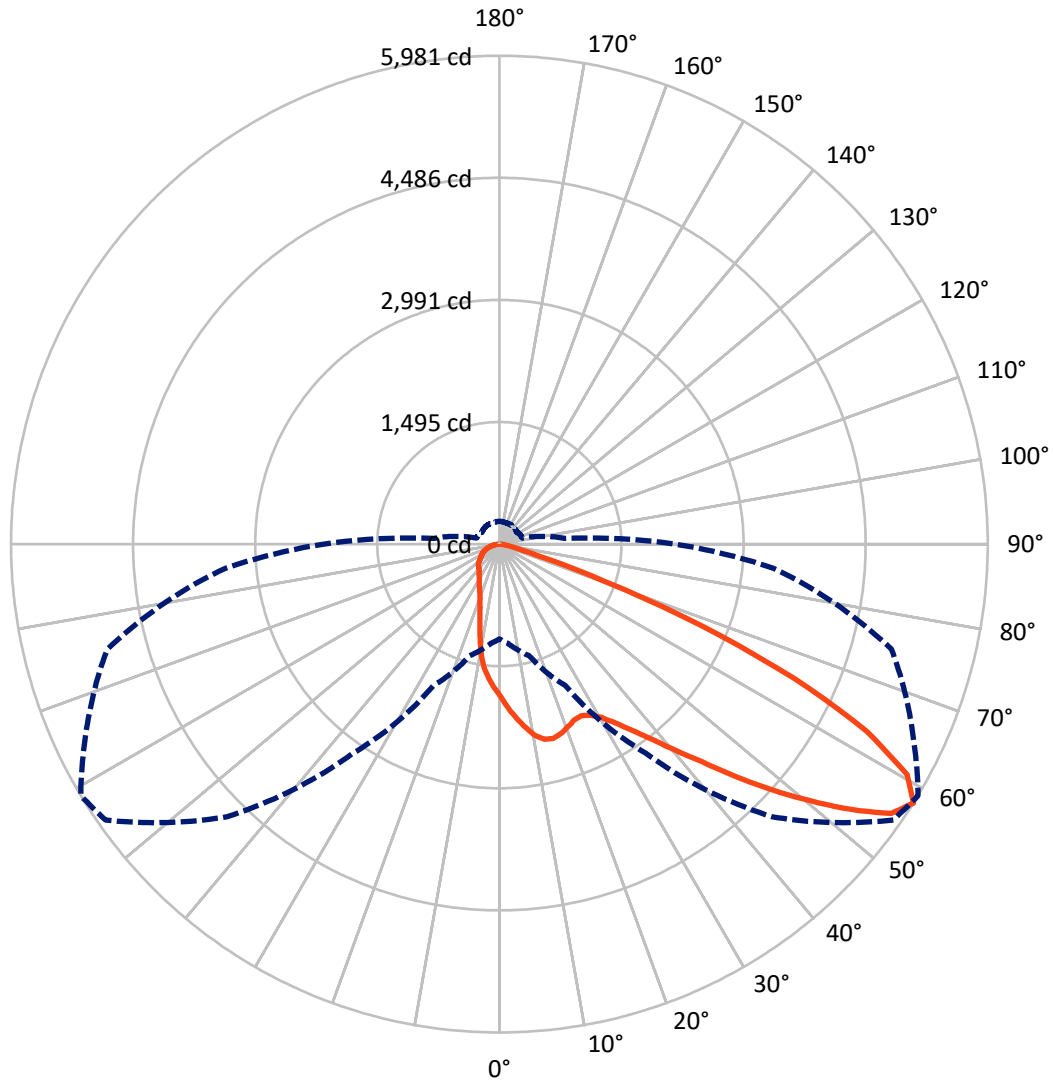
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.9 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	1181.1	0.0	1181.1
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	6429.5	0.0	6429.5
	% Fixture	84.5	0.0	84.5
Total	Lumens	7610.6	0.0	7610.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	2.3
10°-20°	439.6	5.8
20°-30°	712.6	9.4
30°-40°	1146.2	15.1
40°-50°	1780.0	23.4
50°-60°	1917.3	25.2
60°-70°	1112.7	14.6
70°-80°	290.5	3.8
80°-90°	38.3	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°	7610.6	100.0
0°-180°	7610.6	100.0

Coefficient of Utilization



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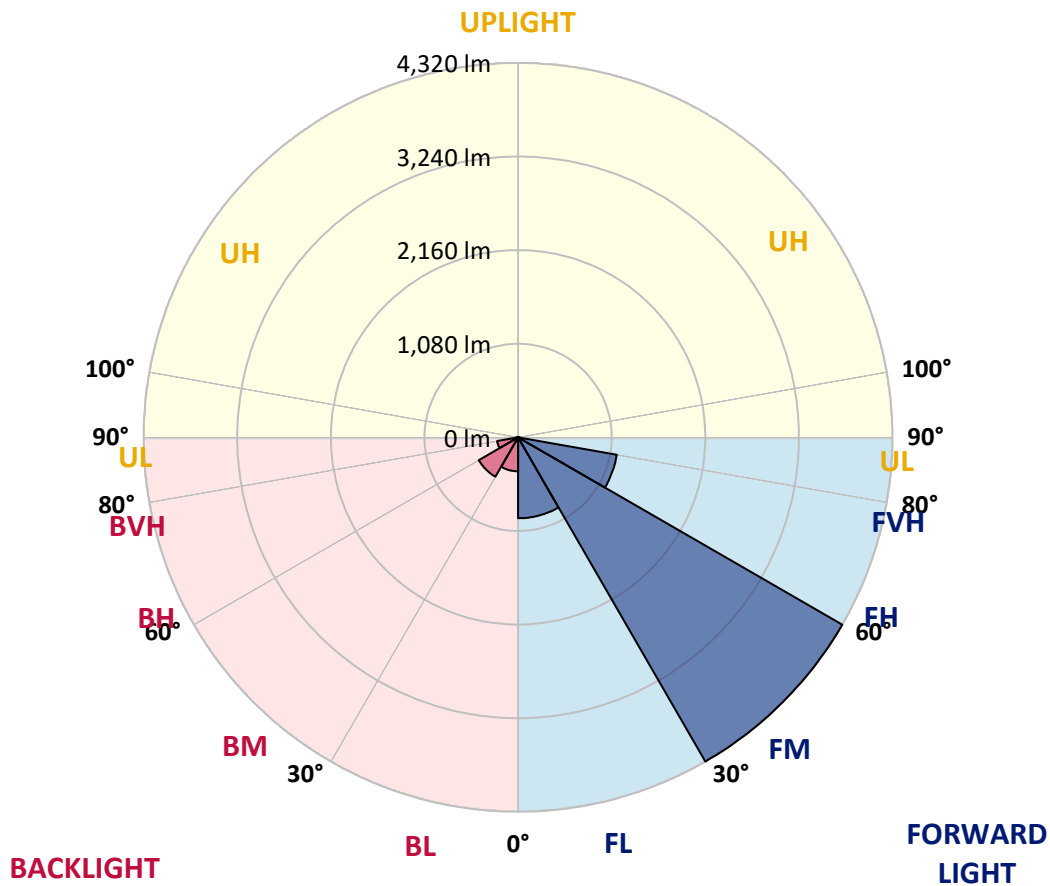
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	933.7	12.3			
FM (30°-60°)	4319.9	56.8			
FH (60°-80°)	1157.5	15.2			G1/1800
FVH (80°-90°)	18.3	0.2			G1/100
BL (0°-30°)	391.9	5.1	B1/500		
BM (30°-60°)	523.7	6.9	B1/1000		
BH (60°-80°)	245.7	3.2	B1/500		G1/500
BVH (80°-90°)	19.9	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°	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3
2.5°	2119.0	2101.3	2113.6	2091.7	2082.6	2058.5	2027.4	2006.5	1974.3	1932.5	1896.1
5°	2329.6	2317.2	2319.9	2296.3	2275.4	2235.3	2171.5	2136.1	2081.5	1997.4	1919.1
7.5°	2323.1	2337.6	2345.6	2366.0	2371.9	2368.1	2310.8	2261.5	2201.5	2075.1	1957.2
10°	2082.6	2109.9	2134.5	2204.2	2288.8	2396.0	2409.4	2379.9	2319.4	2174.2	2002.7
12.5°	1820.6	1841.5	1863.4	1947.0	2076.7	2291.0	2436.2	2454.4	2430.3	2272.2	2054.2
15°	1692.0	1701.6	1722.5	1777.7	1881.1	2119.0	2389.6	2469.4	2512.8	2376.2	2112.0
17.5°	1686.6	1690.9	1701.1	1730.6	1802.3	1986.1	2305.4	2439.4	2577.6	2486.0	2179.5
20°	1797.5	1786.3	1779.8	1779.3	1814.7	1941.7	2224.0	2391.2	2608.2	2598.5	2251.9
22.5°	1951.3	1955.0	1941.1	1906.8	1902.5	1973.3	2183.3	2342.4	2617.3	2698.2	2318.8
25°	2169.4	2188.1	2146.9	2081.5	2049.3	2064.9	2208.5	2327.4	2616.2	2781.2	2360.6
27.5°	2423.8	2438.3	2396.5	2310.8	2244.4	2206.9	2283.5	2371.9	2625.3	2853.0	2385.8
30°	2713.7	2718.5	2661.2	2571.2	2474.2	2393.8	2408.3	2463.5	2671.9	2947.3	2415.3
32.5°	3067.9	3088.2	3001.4	2858.9	2723.3	2620.5	2576.0	2611.4	2772.6	3058.7	2460.8
35°	3517.4	3524.3	3414.0	3209.8	3018.0	2875.5	2782.3	2801.0	2925.9	3214.7	2529.4
37.5°	3941.2	3948.1	3830.8	3641.1	3366.8	3171.8	3036.8	3028.2	3122.0	3434.9	2641.4
40°	4210.1	4229.9	4177.4	4058.5	3796.5	3533.4	3350.2	3320.7	3379.1	3704.4	2797.3
42.5°	4354.8	4363.4	4362.3	4377.8	4221.9	3960.5	3703.8	3644.9	3684.0	3995.3	2954.8
45°	4355.9	4377.3	4434.6	4584.1	4591.1	4428.2	4150.7	4058.5	4022.6	4288.3	3119.3
47.5°	4160.8	4183.9	4341.4	4635.5	4852.5	4889.5	4685.9	4501.1	4350.0	4540.7	3254.3
50°	3570.4	3628.3	3928.3	4448.5	4904.0	5259.2	5196.5	4945.7	4640.9	4735.7	3339.0
52.5°	3057.7	3055.5	3240.4	3920.3	4689.1	5422.1	5690.5	5403.3	4928.6	4859.5	3360.4
55°	2239.0	2251.3	2440.5	2998.2	4115.8	5264.5	5962.1	5824.4	5258.6	4925.4	3351.8
57.5°	1161.0	1222.1	1416.1	1913.3	3127.3	4722.3	5889.8	5981.4	5594.0	4972.0	3363.1
60°	586.7	574.9	644.5	913.5	1812.0	3688.3	5444.0	5736.0	5654.6	5008.4	3370.0
62.5°	391.7	388.4	369.1	423.3	740.4	2184.4	4640.9	5050.2	5234.0	4922.7	3281.1
65°	339.1	332.7	297.4	295.2	359.5	906.0	3401.6	3970.1	4325.9	4541.8	3068.4
67.5°	305.4	295.7	259.9	242.2	258.2	398.1	1917.0	2662.8	3194.3	3841.0	2602.3
70°	272.7	267.9	232.0	206.3	204.7	242.7	706.2	1374.3	1954.5	2620.5	1902.5
72.5°	244.3	235.7	205.2	180.6	168.2	172.0	306.5	529.3	1011.5	1634.7	1138.0
75°	211.6	205.2	178.4	153.8	138.8	125.9	187.0	244.8	461.3	776.9	537.4
77.5°	163.4	159.1	140.9	122.2	113.6	93.8	113.6	154.3	213.2	327.4	279.7
80°	94.8	97.5	105.0	95.4	83.6	67.0	73.9	88.9	128.1	177.3	158.6
82.5°	47.7	50.9	68.0	55.2	49.8	39.1	43.9	52.5	67.0	98.0	62.1
85°	3.8	3.8	12.3	13.9	17.1	13.9	17.7	21.4	30.5	39.1	20.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.7	4.8	9.1	5.9
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°	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3	1868.3
2.5°	1871.5	1844.1	1811.5	1784.7	1743.4	1721.4	1693.6	1659.3	1645.4	1638.9	1635.2
5°	1875.2	1827.0	1757.3	1693.1	1621.8	1565.5	1502.9	1437.5	1400.0	1390.9	1384.4
7.5°	1889.1	1821.6	1710.7	1604.6	1472.3	1349.6	1230.1	1111.7	1051.2	1028.2	1026.0
10°	1908.4	1819.5	1663.6	1487.3	1263.9	1069.9	930.1	837.4	798.3	785.4	781.2
12.5°	1932.5	1817.9	1601.4	1324.4	1023.3	840.1	760.3	745.3	750.6	749.6	749.6
15°	1963.1	1820.0	1526.4	1140.1	827.8	729.2	730.8	748.5	765.1	767.8	767.8
17.5°	1996.3	1817.9	1417.7	955.3	710.4	702.9	727.6	752.2	767.2	769.4	769.4
20°	2032.2	1807.7	1280.5	781.2	659.0	686.3	713.1	732.4	741.5	743.7	743.7
22.5°	2053.6	1778.8	1131.6	661.1	626.3	660.1	677.8	697.6	698.7	681.5	681.0
25°	2050.4	1724.7	961.7	584.0	591.5	621.0	643.5	629.5	612.4	602.7	601.1
27.5°	2030.1	1643.2	788.7	525.6	550.2	583.5	576.5	564.7	560.4	549.7	548.6
30°	2004.3	1543.0	633.3	480.1	507.4	537.9	527.2	526.1	521.8	510.1	510.1
32.5°	1979.7	1439.6	516.0	446.3	480.1	482.2	497.2	498.3	496.1	475.8	473.6
35°	1972.7	1336.2	436.7	419.5	453.3	452.2	473.6	473.1	436.1	407.7	407.2
37.5°	1993.6	1231.2	389.5	397.5	416.3	430.2	447.4	416.3	404.0	386.8	385.8
40°	2038.1	1134.2	365.4	384.7	392.7	413.1	386.3	388.4	385.2	372.4	370.8
42.5°	2097.0	1051.7	352.0	380.4	379.3	384.7	355.2	363.8	368.6	359.0	357.4
45°	2153.8	979.9	345.0	364.3	369.7	338.6	332.7	340.8	348.3	344.5	342.9
47.5°	2195.6	917.8	341.3	342.4	357.4	323.1	313.4	317.2	326.3	327.9	327.4
50°	2208.5	864.7	337.0	324.1	320.9	307.5	300.0	299.0	309.7	317.2	318.3
52.5°	2183.8	817.6	325.8	308.1	292.5	294.7	292.0	286.6	297.4	307.5	308.6
55°	2147.4	790.8	308.1	292.5	274.3	282.9	284.0	279.1	286.1	293.1	293.1
57.5°	2150.1	806.3	290.9	278.1	258.2	269.5	275.4	273.2	273.2	278.6	279.1
60°	2167.7	828.8	279.7	259.9	242.2	254.0	267.4	265.2	260.4	267.4	267.4
62.5°	2116.9	798.8	272.2	242.2	225.0	239.0	255.0	254.0	248.6	259.9	260.9
65°	1966.8	718.5	263.6	220.2	207.9	224.0	237.9	241.6	236.8	251.8	254.5
67.5°	1648.6	604.4	247.0	199.3	190.7	205.7	219.1	224.5	220.7	238.4	240.6
70°	1229.1	489.2	220.7	176.3	169.8	183.2	195.6	197.7	198.2	219.1	221.3
72.5°	783.8	380.4	185.9	150.6	145.7	155.9	165.0	173.6	177.3	197.2	196.6
75°	437.2	282.9	149.5	127.5	118.9	127.0	137.7	147.9	158.6	187.5	190.7
77.5°	251.8	198.8	118.4	102.3	92.2	100.7	109.8	124.3	156.4	181.6	178.4
80°	142.0	129.1	89.5	75.0	68.6	75.0	82.0	109.3	123.2	133.9	135.6
82.5°	66.4	72.3	61.1	46.1	46.1	50.4	56.8	84.7	93.2	76.1	66.4
85°	24.1	32.7	30.0	23.6	20.9	20.4	35.4	48.2	30.0	26.8	23.0
87.5°	6.4	9.1	8.6	5.9	3.2	2.7	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)