

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: P631810

Luminaire Tested: GWS-SA2B-740-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631810
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-740-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7027.6 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

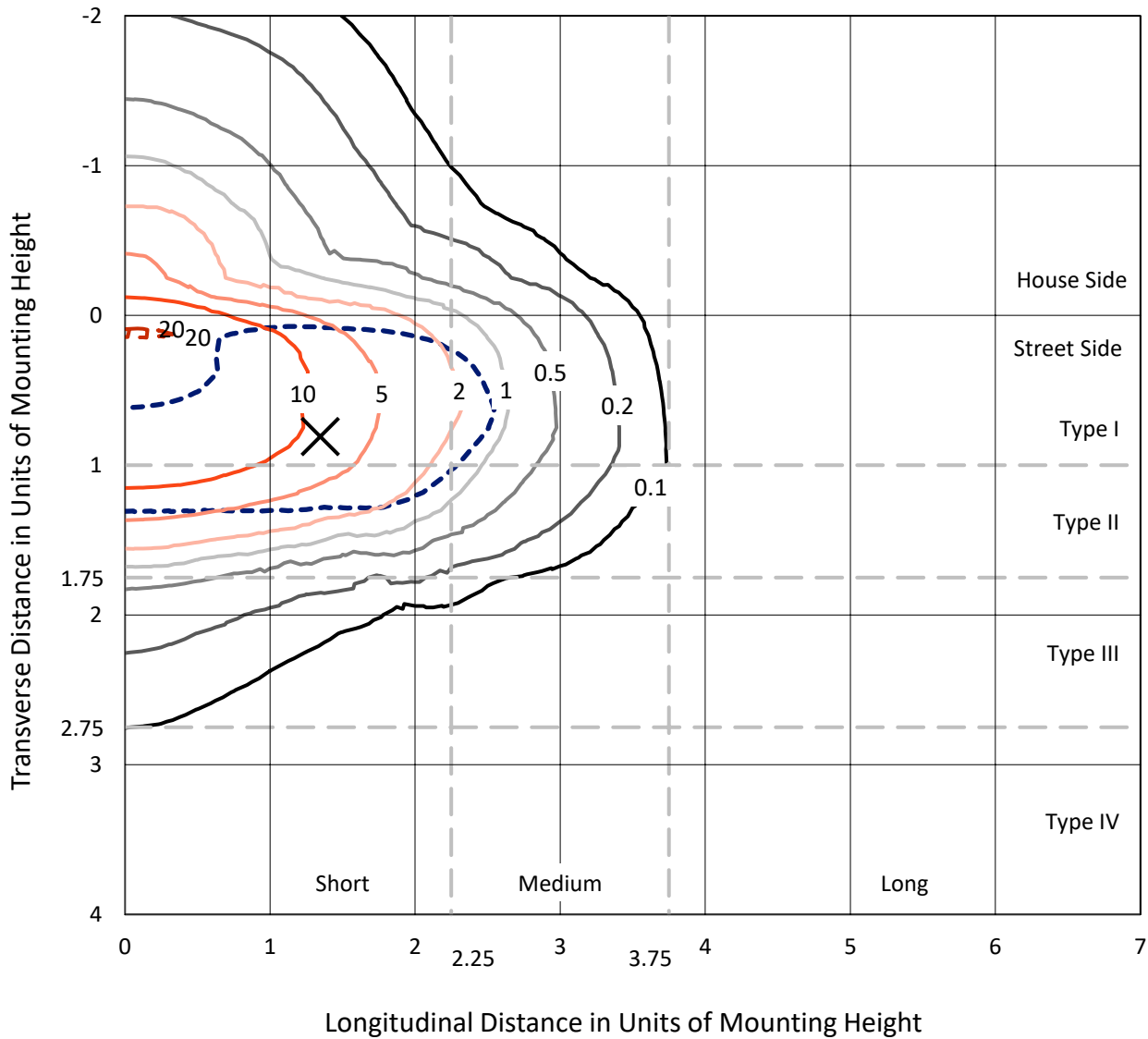
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

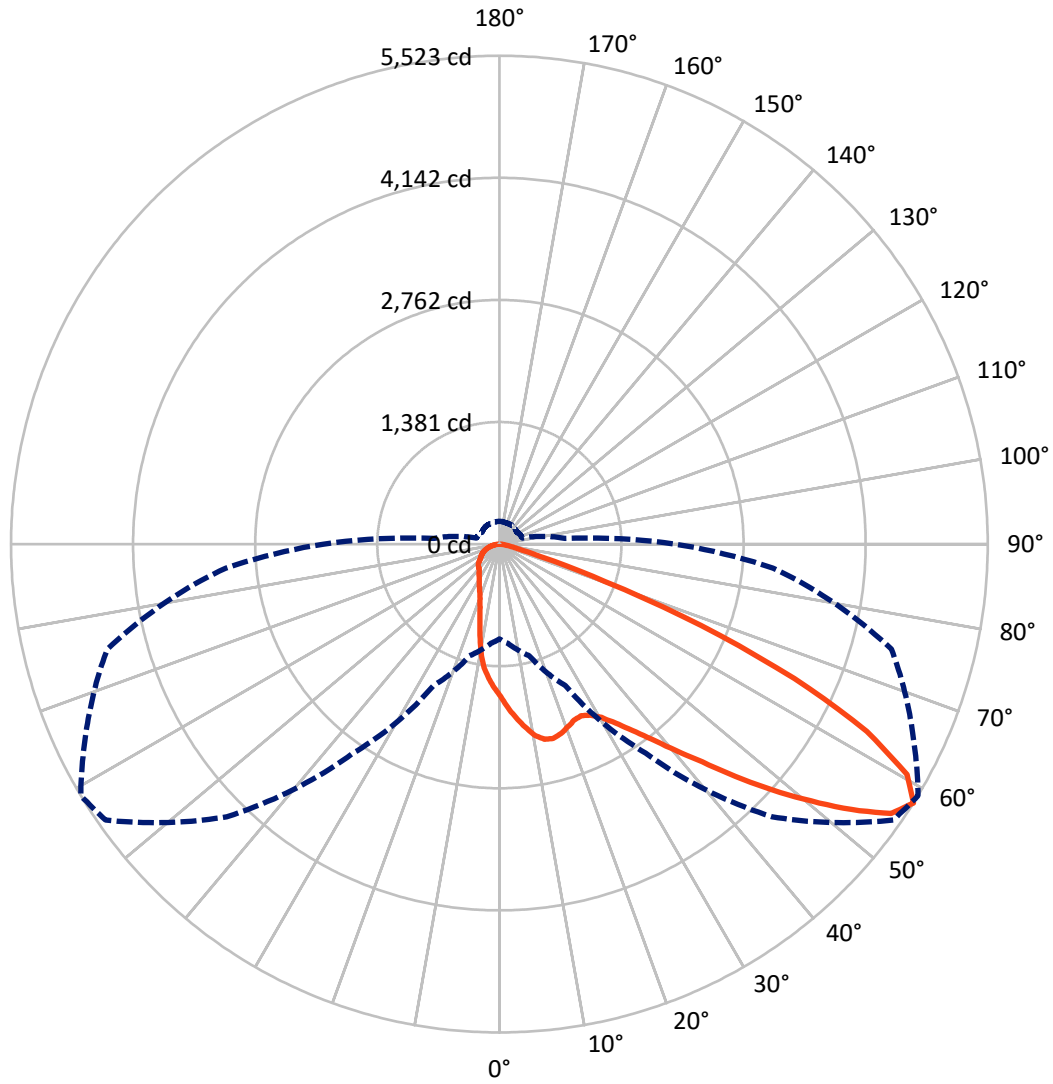
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.1 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	1090.6	0.0	1090.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	5937.0	0.0	5937.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	7027.6	0.0	7027.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.2	2.3
10°-20°	405.9	5.8
20°-30°	658.0	9.4
30°-40°	1058.4	15.1
40°-50°	1643.6	23.4
50°-60°	1770.4	25.2
60°-70°	1027.5	14.6
70°-80°	268.2	3.8
80°-90°	35.3	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°	7027.6	100.0
0°-180°	7027.6	100.0

Coefficient of Utilization



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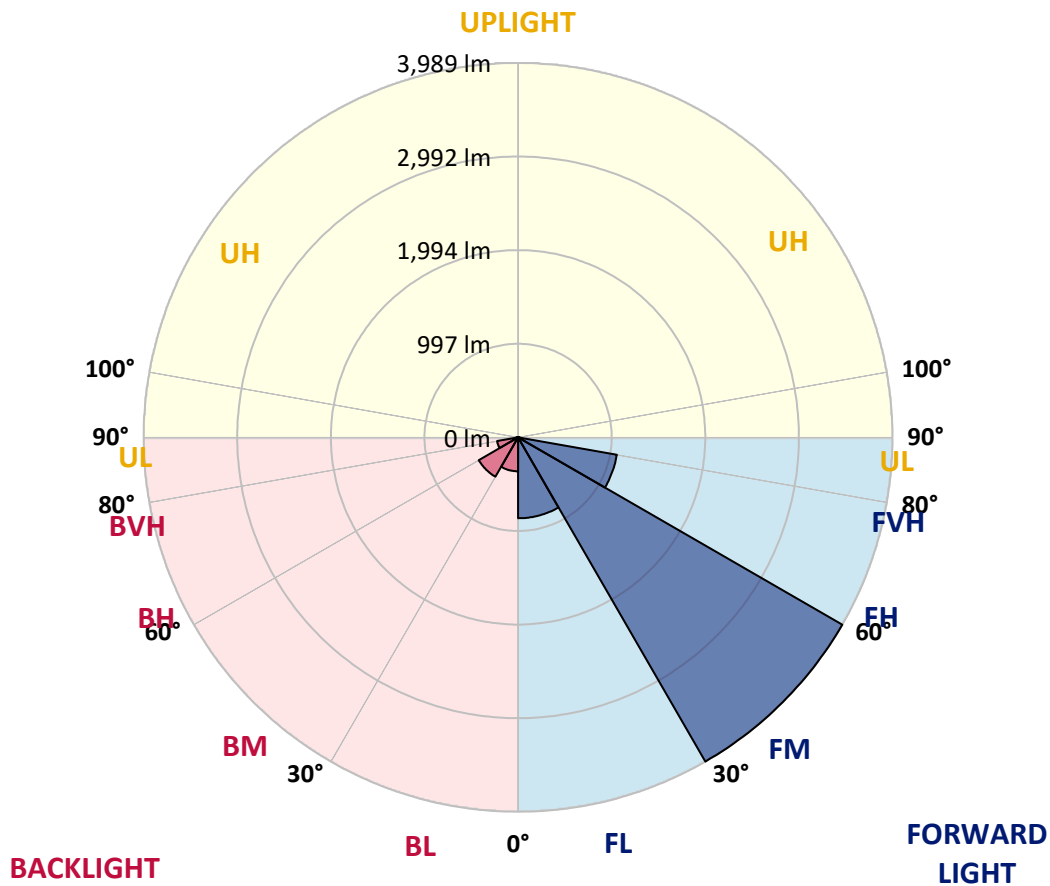
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.2	12.3			
FM (30°-60°)	3988.9	56.8			
FH (60°-80°)	1068.9	15.2			G1/1800
FVH (80°-90°)	16.9	0.2			G1/100
BL (0°-30°)	361.8	5.1	B1/500		
BM (30°-60°)	483.6	6.9	B1/1000		
BH (60°-80°)	226.8	3.2	B1/500		G1/500
BVH (80°-90°)	18.4	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°	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1
2.5°	1956.7	1940.3	1951.7	1931.4	1923.0	1900.8	1872.1	1852.8	1823.1	1784.5	1750.9
5°	2151.1	2139.7	2142.2	2120.4	2101.1	2064.0	2005.2	1972.5	1922.0	1844.4	1772.1
7.5°	2145.2	2158.5	2165.9	2184.7	2190.2	2186.7	2133.8	2088.3	2032.9	1916.1	1807.3
10°	1923.0	1948.3	1971.0	2035.3	2113.5	2212.4	2224.8	2197.6	2141.7	2007.6	1849.3
12.5°	1681.1	1700.4	1720.7	1797.9	1917.6	2115.5	2249.6	2266.4	2244.1	2098.2	1896.8
15°	1562.4	1571.3	1590.6	1641.5	1737.0	1956.7	2206.5	2280.2	2320.3	2194.1	1950.2
17.5°	1557.4	1561.4	1570.8	1598.0	1664.3	1834.0	2128.8	2252.5	2380.2	2295.6	2012.6
20°	1659.8	1649.4	1643.5	1643.0	1675.7	1792.9	2053.6	2208.0	2408.4	2399.5	2079.4
22.5°	1801.8	1805.3	1792.4	1760.8	1756.8	1822.1	2016.0	2163.0	2416.8	2491.5	2141.2
25°	2003.2	2020.5	1982.4	1922.0	1892.4	1906.7	2039.3	2149.1	2415.8	2568.2	2179.8
27.5°	2238.2	2251.5	2212.9	2133.8	2072.4	2037.8	2108.6	2190.2	2424.2	2634.5	2203.0
30°	2505.8	2510.3	2457.3	2374.2	2284.7	2210.5	2223.8	2274.8	2467.2	2721.5	2230.3
32.5°	2832.8	2851.6	2771.5	2639.9	2514.7	2419.7	2378.7	2411.3	2560.2	2824.4	2272.3
35°	3247.9	3254.4	3152.4	2963.9	2786.8	2655.2	2569.2	2586.5	2701.7	2968.4	2335.6
37.5°	3639.3	3645.7	3537.3	3362.2	3108.9	2928.8	2804.1	2796.2	2882.8	3171.7	2439.0
40°	3887.6	3905.9	3857.4	3747.6	3505.7	3262.8	3093.6	3066.4	3120.3	3420.6	2583.0
42.5°	4021.2	4029.1	4028.1	4042.5	3898.5	3657.1	3420.1	3365.7	3401.8	3689.2	2728.5
45°	4022.2	4042.0	4094.9	4232.9	4239.4	4089.0	3832.7	3747.6	3714.5	3959.8	2880.3
47.5°	3842.1	3863.4	4008.8	4280.4	4480.8	4514.9	4326.9	4156.3	4016.7	4192.9	3005.0
50°	3296.9	3350.3	3627.4	4107.8	4528.3	4856.3	4798.4	4566.9	4285.4	4372.9	3083.2
52.5°	2823.4	2821.5	2992.1	3620.0	4329.9	5006.7	5254.6	4989.4	4551.1	4487.2	3103.0
55°	2067.5	2078.9	2253.5	2768.5	3800.5	4861.3	5505.4	5378.2	4855.8	4548.1	3095.1
57.5°	1072.1	1128.5	1307.6	1766.7	2887.8	4360.6	5438.6	5523.2	5165.5	4591.1	3105.4
60°	541.7	530.8	595.2	843.5	1673.2	3405.7	5027.0	5296.6	5221.4	4624.8	3111.9
62.5°	361.7	358.7	340.9	390.8	683.7	2017.0	4285.4	4663.4	4833.1	4545.6	3029.7
65°	313.2	307.2	274.6	272.6	332.0	836.6	3141.1	3666.0	3994.5	4193.9	2833.3
67.5°	282.0	273.1	239.9	223.6	238.5	367.6	1770.2	2458.8	2949.6	3546.7	2402.9
70°	251.8	247.4	214.2	190.5	189.0	224.1	652.1	1269.0	1804.8	2419.7	1756.8
72.5°	225.6	217.7	189.5	166.7	155.3	158.8	283.0	488.8	934.1	1509.4	1050.8
75°	195.4	189.5	164.7	142.0	128.1	116.3	172.7	226.1	426.0	717.4	496.2
77.5°	150.9	146.9	130.1	112.8	104.9	86.6	104.9	142.5	196.9	302.3	258.3
80°	87.6	90.0	97.0	88.1	77.2	61.8	68.3	82.1	118.2	163.8	146.4
82.5°	44.0	47.0	62.8	51.0	46.0	36.1	40.6	48.5	61.8	90.5	57.4
85°	3.5	3.5	11.4	12.9	15.8	12.9	16.3	19.8	28.2	36.1	19.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.5	4.5	8.4	5.4
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°	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1
2.5°	1728.1	1702.9	1672.7	1648.0	1609.9	1589.6	1563.9	1532.2	1519.3	1513.4	1509.9
5°	1731.6	1687.0	1622.7	1563.4	1497.6	1445.6	1387.7	1327.4	1292.7	1284.3	1278.4
7.5°	1744.4	1682.1	1579.7	1481.7	1359.5	1246.2	1135.9	1026.6	970.7	949.4	947.4
10°	1762.2	1680.1	1536.1	1373.4	1167.1	988.0	858.9	773.3	737.2	725.3	721.3
12.5°	1784.5	1678.6	1478.8	1223.0	944.9	775.7	702.0	688.2	693.1	692.1	692.1
15°	1812.7	1680.6	1409.5	1052.8	764.4	673.3	674.8	691.1	706.5	709.0	709.0
17.5°	1843.4	1678.6	1309.1	882.1	656.0	649.1	671.8	694.6	708.5	710.4	710.4
20°	1876.5	1669.2	1182.4	721.3	608.5	633.8	658.5	676.3	684.7	686.7	686.7
22.5°	1896.3	1642.5	1044.9	610.5	578.3	609.5	625.8	644.1	645.1	629.3	628.8
25°	1893.3	1592.5	888.0	539.3	546.2	573.4	594.2	581.3	565.5	556.6	555.1
27.5°	1874.5	1517.3	728.2	485.3	508.1	538.8	532.3	521.4	517.5	507.6	506.6
30°	1850.8	1424.8	584.8	443.3	468.5	496.7	486.8	485.8	481.9	471.0	471.0
32.5°	1828.0	1329.3	476.4	412.1	443.3	445.3	459.1	460.1	458.1	439.3	437.3
35°	1821.6	1233.9	403.2	387.4	418.5	417.6	437.3	436.8	402.7	376.5	376.0
37.5°	1840.9	1136.9	359.7	367.1	384.4	397.3	413.1	384.4	373.0	357.2	356.2
40°	1882.0	1047.4	337.4	355.2	362.6	381.4	356.7	358.7	355.7	343.8	342.4
42.5°	1936.4	971.2	325.0	351.3	350.3	355.2	328.0	335.9	340.4	331.5	330.0
45°	1988.8	904.9	318.6	336.4	341.4	312.7	307.2	314.7	321.6	318.1	316.6
47.5°	2027.4	847.5	315.1	316.1	330.0	298.3	289.4	292.9	301.3	302.8	302.3
50°	2039.3	798.5	311.2	299.3	296.3	284.0	277.1	276.1	286.0	292.9	293.9
52.5°	2016.5	755.0	300.8	284.5	270.1	272.1	269.6	264.7	274.6	284.0	285.0
55°	1982.9	730.2	284.5	270.1	253.3	261.2	262.2	257.8	264.2	270.6	270.6
57.5°	1985.4	744.6	268.6	256.8	238.5	248.9	254.3	252.3	252.3	257.3	257.8
60°	2001.7	765.4	258.3	239.9	223.6	234.5	246.9	244.9	240.4	246.9	246.9
62.5°	1954.7	737.6	251.3	223.6	207.8	220.7	235.5	234.5	229.6	239.9	240.9
65°	1816.2	663.4	243.4	203.3	192.0	206.8	219.7	223.1	218.7	232.5	235.0
67.5°	1522.3	558.1	228.1	184.0	176.1	190.0	202.3	207.3	203.8	220.2	222.1
70°	1134.9	451.7	203.8	162.8	156.8	169.2	180.6	182.6	183.1	202.3	204.3
72.5°	723.8	351.3	171.7	139.0	134.6	144.0	152.4	160.3	163.8	182.1	181.6
75°	403.7	261.2	138.0	117.7	109.8	117.3	127.1	136.5	146.4	173.2	176.1
77.5°	232.5	183.5	109.3	94.5	85.1	93.0	101.4	114.8	144.5	167.7	164.7
80°	131.1	119.2	82.6	69.3	63.3	69.3	75.7	100.9	113.8	123.7	125.2
82.5°	61.3	66.8	56.4	42.5	42.5	46.5	52.4	78.2	86.1	70.3	61.3
85°	22.3	30.2	27.7	21.8	19.3	18.8	32.7	44.5	27.7	24.7	21.3
87.5°	5.9	8.4	7.9	5.4	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)