

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: P631755

Luminaire Tested: GWS-SA2B-735-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631755
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-735-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6931.3 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

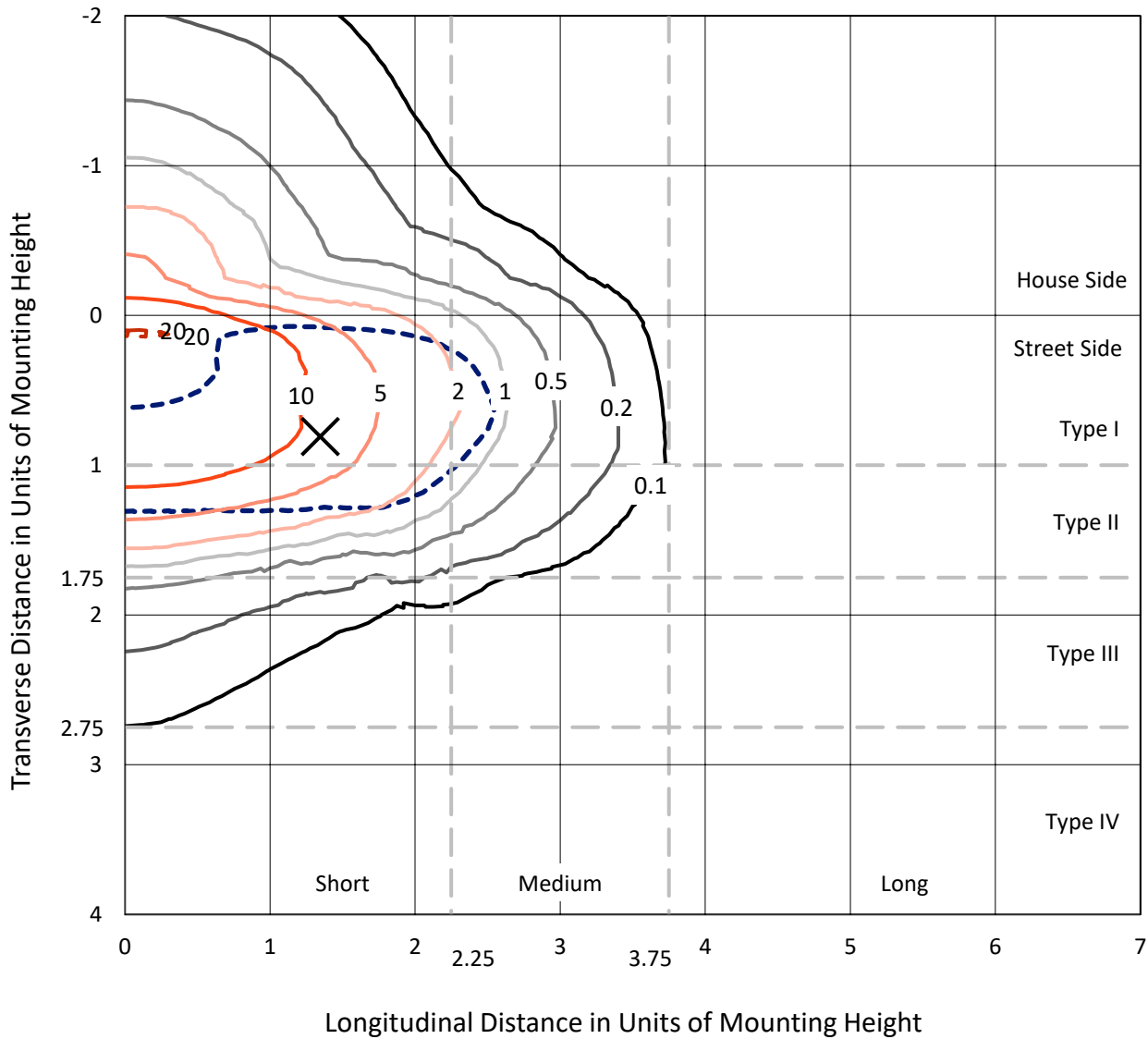
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

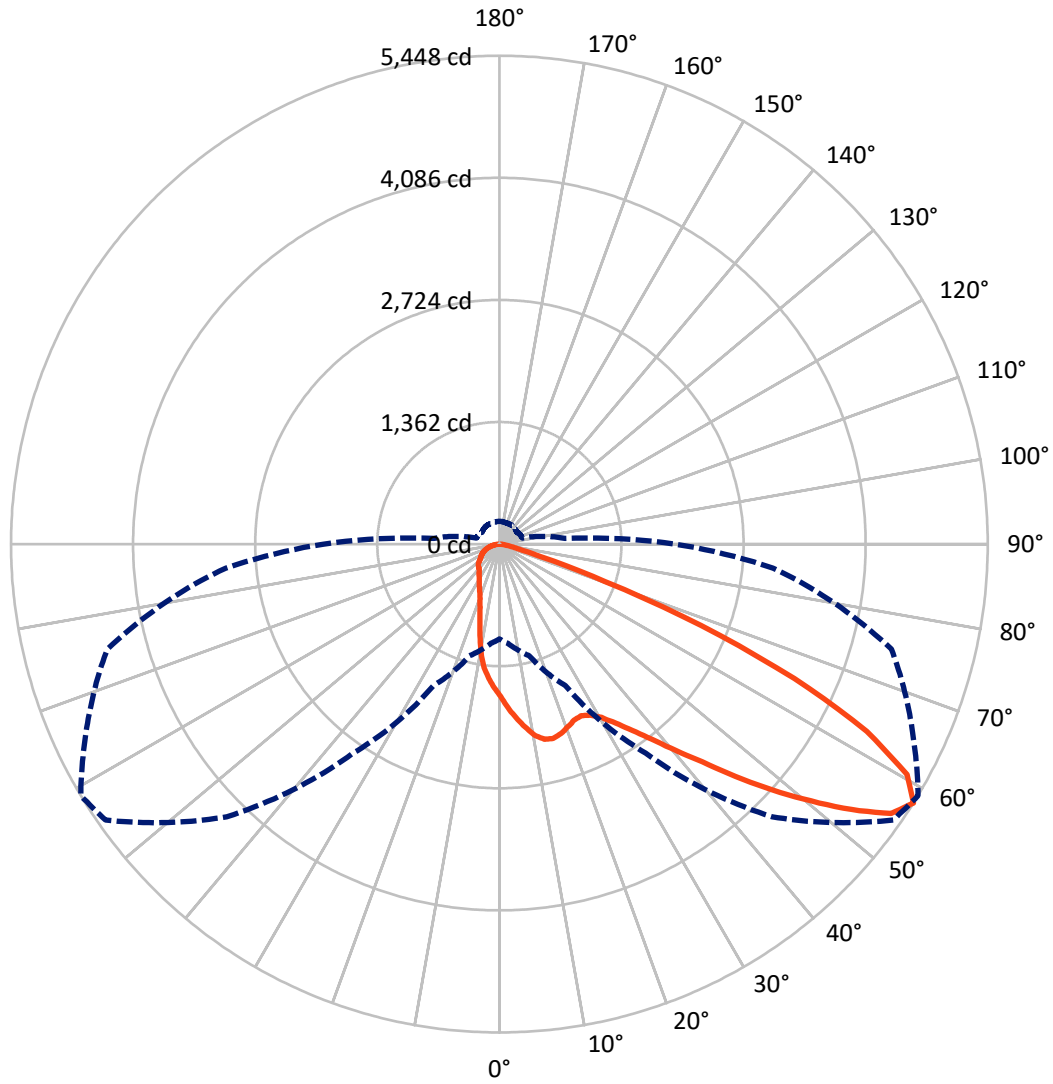
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.8 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	1075.7	0.0	1075.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	5855.6	0.0	5855.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	6931.3	0.0	6931.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.0	2.3
10°-20°	400.3	5.8
20°-30°	649.0	9.4
30°-40°	1043.9	15.1
40°-50°	1621.1	23.4
50°-60°	1746.2	25.2
60°-70°	1013.4	14.6
70°-80°	264.5	3.8
80°-90°	34.9	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°	6931.3	100.0
0°-180°	6931.3	100.0

Coefficient of Utilization



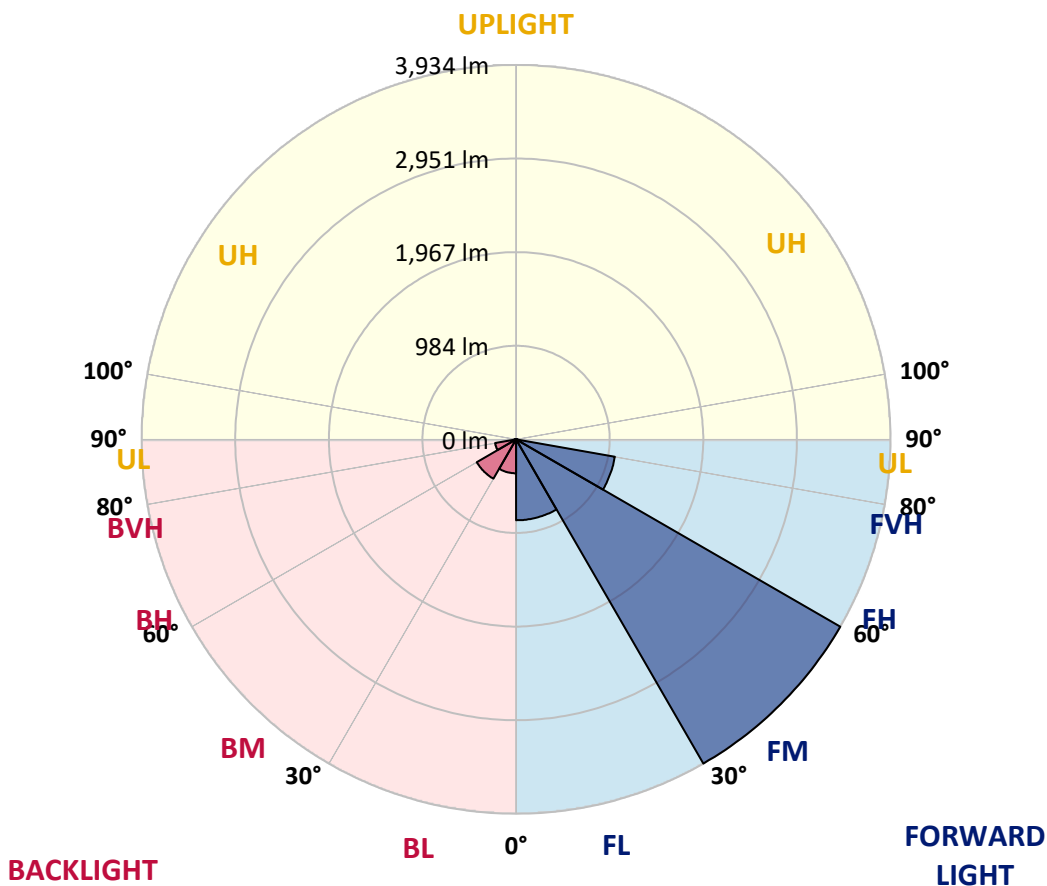
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	850.4	12.3			
FM (30°-60°)	3934.3	56.8			
FH (60°-80°)	1054.2	15.2			G1/1800
FVH (80°-90°)	16.7	0.2			G1/100
BL (0°-30°)	356.9	5.1	B1/500		
BM (30°-60°)	476.9	6.9	B1/1000		
BH (60°-80°)	223.7	3.2	B1/500		G1/500
BVH (80°-90°)	18.2	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°	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5
2.5°	1929.9	1913.8	1925.0	1905.0	1896.7	1874.7	1846.4	1827.4	1798.1	1760.1	1726.9
5°	2121.6	2110.4	2112.8	2091.4	2072.3	2035.7	1977.7	1945.5	1895.7	1819.1	1747.9
7.5°	2115.8	2128.9	2136.3	2154.8	2160.2	2156.8	2104.5	2059.7	2005.0	1889.8	1782.5
10°	1896.7	1921.6	1944.0	2007.4	2084.5	2182.1	2194.3	2167.5	2112.4	1980.1	1824.0
12.5°	1658.1	1677.1	1697.1	1773.2	1891.3	2086.5	2218.7	2235.3	2213.4	2069.4	1870.8
15°	1541.0	1549.7	1568.8	1619.0	1713.2	1929.9	2176.3	2249.0	2288.5	2164.1	1923.5
17.5°	1536.1	1540.0	1549.3	1576.1	1641.5	1808.8	2099.7	2221.7	2347.5	2264.1	1985.0
20°	1637.1	1626.8	1621.0	1620.5	1652.7	1768.3	2025.5	2177.7	2375.4	2366.6	2050.9
22.5°	1777.1	1780.5	1767.9	1736.6	1732.7	1797.1	1988.4	2133.3	2383.7	2457.3	2111.9
25°	1975.7	1992.8	1955.2	1895.7	1866.4	1880.6	2011.3	2119.7	2382.7	2533.0	2149.9
27.5°	2207.5	2220.7	2182.6	2104.5	2044.0	2009.9	2079.7	2160.2	2391.0	2598.4	2172.9
30°	2471.5	2475.9	2423.7	2341.7	2253.4	2180.2	2193.4	2243.6	2433.4	2684.2	2199.7
32.5°	2794.0	2812.6	2733.5	2603.7	2480.3	2386.6	2346.1	2378.3	2525.2	2785.7	2241.2
35°	3203.4	3209.8	3109.2	2923.3	2748.6	2618.8	2533.9	2551.0	2664.7	2927.7	2303.6
37.5°	3589.4	3595.7	3488.9	3316.1	3066.3	2888.7	2765.7	2757.9	2843.3	3128.3	2405.6
40°	3834.3	3852.4	3804.6	3696.3	3457.6	3218.1	3051.2	3024.3	3077.5	3373.7	2547.6
42.5°	3966.1	3973.9	3972.9	3987.1	3845.1	3607.0	3373.2	3319.6	3355.2	3638.7	2691.1
45°	3967.1	3986.6	4038.8	4174.9	4181.3	4032.9	3780.2	3696.3	3663.6	3905.6	2840.9
47.5°	3789.5	3810.4	3953.9	4221.8	4419.4	4453.1	4267.6	4099.3	3961.7	4135.4	2963.8
50°	3251.7	3304.4	3577.7	4051.5	4466.2	4789.8	4732.7	4504.3	4226.7	4313.0	3040.9
52.5°	2784.8	2782.8	2951.1	3570.4	4270.6	4938.1	5182.6	4921.0	4488.7	4425.7	3060.4
55°	2039.2	2050.4	2222.6	2730.6	3748.5	4794.6	5430.0	5304.5	4789.3	4485.8	3052.6
57.5°	1057.4	1113.0	1289.7	1742.5	2848.2	4300.8	5364.1	5447.5	5094.7	4528.2	3062.9
60°	534.3	523.6	587.0	832.0	1650.3	3359.1	4958.1	5224.0	5149.9	4561.4	3069.2
62.5°	356.7	353.8	336.2	385.5	674.4	1989.4	4226.7	4599.5	4766.8	4483.3	2988.2
65°	308.9	303.0	270.8	268.9	327.4	825.1	3098.0	3615.7	3939.7	4136.4	2794.5
67.5°	278.1	269.4	236.7	220.6	235.2	362.5	1745.9	2425.1	2909.2	3498.1	2370.0
70°	248.4	244.0	211.3	187.9	186.4	221.0	643.1	1251.6	1780.1	2386.6	1732.7
72.5°	222.5	214.7	186.9	164.4	153.2	156.6	279.1	482.1	921.3	1488.7	1036.4
75°	192.7	186.9	162.5	140.0	126.4	114.7	170.3	223.0	420.1	707.5	489.4
77.5°	148.8	144.9	128.3	111.3	103.4	85.4	103.4	140.5	194.2	298.1	254.7
80°	86.4	88.8	95.6	86.9	76.1	61.0	67.3	81.0	116.6	161.5	144.4
82.5°	43.4	46.4	62.0	50.3	45.4	35.6	40.0	47.8	61.0	89.3	56.6
85°	3.4	3.4	11.2	12.7	15.6	12.7	16.1	19.5	27.8	35.6	19.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.4	4.4	8.3	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°	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5
2.5°	1704.4	1679.5	1649.8	1625.4	1587.8	1567.8	1542.4	1511.2	1498.5	1492.7	1489.2
5°	1707.8	1663.9	1600.5	1541.9	1477.0	1425.8	1368.7	1309.2	1275.0	1266.7	1260.9
7.5°	1720.5	1659.0	1558.0	1461.4	1340.9	1229.2	1120.3	1012.5	957.4	936.4	934.4
10°	1738.1	1657.1	1515.1	1354.6	1151.1	974.4	847.1	762.7	727.1	715.3	711.4
12.5°	1760.1	1655.6	1458.5	1206.2	932.0	765.1	692.4	678.7	683.6	682.6	682.6
15°	1787.9	1657.6	1390.2	1038.4	753.9	664.1	665.6	681.7	696.8	699.2	699.2
17.5°	1818.1	1655.6	1291.1	870.0	647.0	640.2	662.6	685.1	698.8	700.7	700.7
20°	1850.8	1646.4	1166.2	711.4	600.2	625.1	649.5	667.0	675.3	677.3	677.3
22.5°	1870.3	1620.0	1030.6	602.1	570.4	601.2	617.3	635.3	636.3	620.7	620.2
25°	1867.4	1570.7	875.9	531.9	538.7	565.5	586.0	573.3	557.7	548.9	547.5
27.5°	1848.9	1496.6	718.3	478.7	501.1	531.4	525.0	514.3	510.4	500.6	499.7
30°	1825.4	1405.3	576.8	437.2	462.1	489.9	480.1	479.2	475.3	464.5	464.5
32.5°	1803.0	1311.1	469.9	406.5	437.2	439.2	452.8	453.8	451.8	433.3	431.4
35°	1796.6	1217.0	397.7	382.1	412.8	411.8	431.4	430.9	397.2	371.3	370.8
37.5°	1815.7	1121.3	354.7	362.1	379.1	391.8	407.4	379.1	367.9	352.3	351.3
40°	1856.2	1033.0	332.8	350.4	357.7	376.2	351.8	353.8	350.8	339.1	337.7
42.5°	1909.9	957.9	320.6	346.4	345.5	350.4	323.5	331.3	335.7	326.9	325.5
45°	1961.6	892.5	314.2	331.8	336.7	308.4	303.0	310.3	317.2	313.8	312.3
47.5°	1999.6	835.9	310.8	311.8	325.5	294.2	285.5	288.9	297.2	298.6	298.1
50°	2011.3	787.6	306.9	295.2	292.3	280.1	273.3	272.3	282.0	288.9	289.8
52.5°	1988.9	744.6	296.7	280.6	266.4	268.4	265.9	261.1	270.8	280.1	281.1
55°	1955.7	720.2	280.6	266.4	249.8	257.6	258.6	254.2	260.6	266.9	266.9
57.5°	1958.2	734.4	265.0	253.2	235.2	245.4	250.8	248.9	248.9	253.7	254.2
60°	1974.3	754.9	254.7	236.7	220.6	231.3	243.5	241.5	237.1	243.5	243.5
62.5°	1927.9	727.5	247.9	220.6	204.9	217.6	232.3	231.3	226.4	236.7	237.6
65°	1791.3	654.3	240.1	200.5	189.3	204.0	216.7	220.1	215.7	229.3	231.8
67.5°	1501.4	550.4	224.9	181.5	173.7	187.4	199.6	204.5	201.0	217.1	219.1
70°	1119.4	445.5	201.0	160.5	154.7	166.9	178.1	180.1	180.5	199.6	201.5
72.5°	713.9	346.4	169.3	137.1	132.7	142.0	150.3	158.1	161.5	179.6	179.1
75°	398.2	257.6	136.1	116.1	108.3	115.6	125.4	134.7	144.4	170.8	173.7
77.5°	229.3	181.0	107.8	93.2	83.9	91.7	100.0	113.2	142.5	165.4	162.5
80°	129.3	117.6	81.5	68.3	62.5	68.3	74.7	99.5	112.2	122.0	123.5
82.5°	60.5	65.9	55.6	42.0	42.0	45.9	51.7	77.1	84.9	69.3	60.5
85°	22.0	29.8	27.3	21.5	19.0	18.5	32.2	43.9	27.3	24.4	21.0
87.5°	5.9	8.3	7.8	5.4	2.9	2.4	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)