

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: P631095

Luminaire Tested: GWS-SA1F-722-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631095
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-SA1F-722-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6319.4 lumens
Efficiency: N/A
Efficacy: 94.0 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

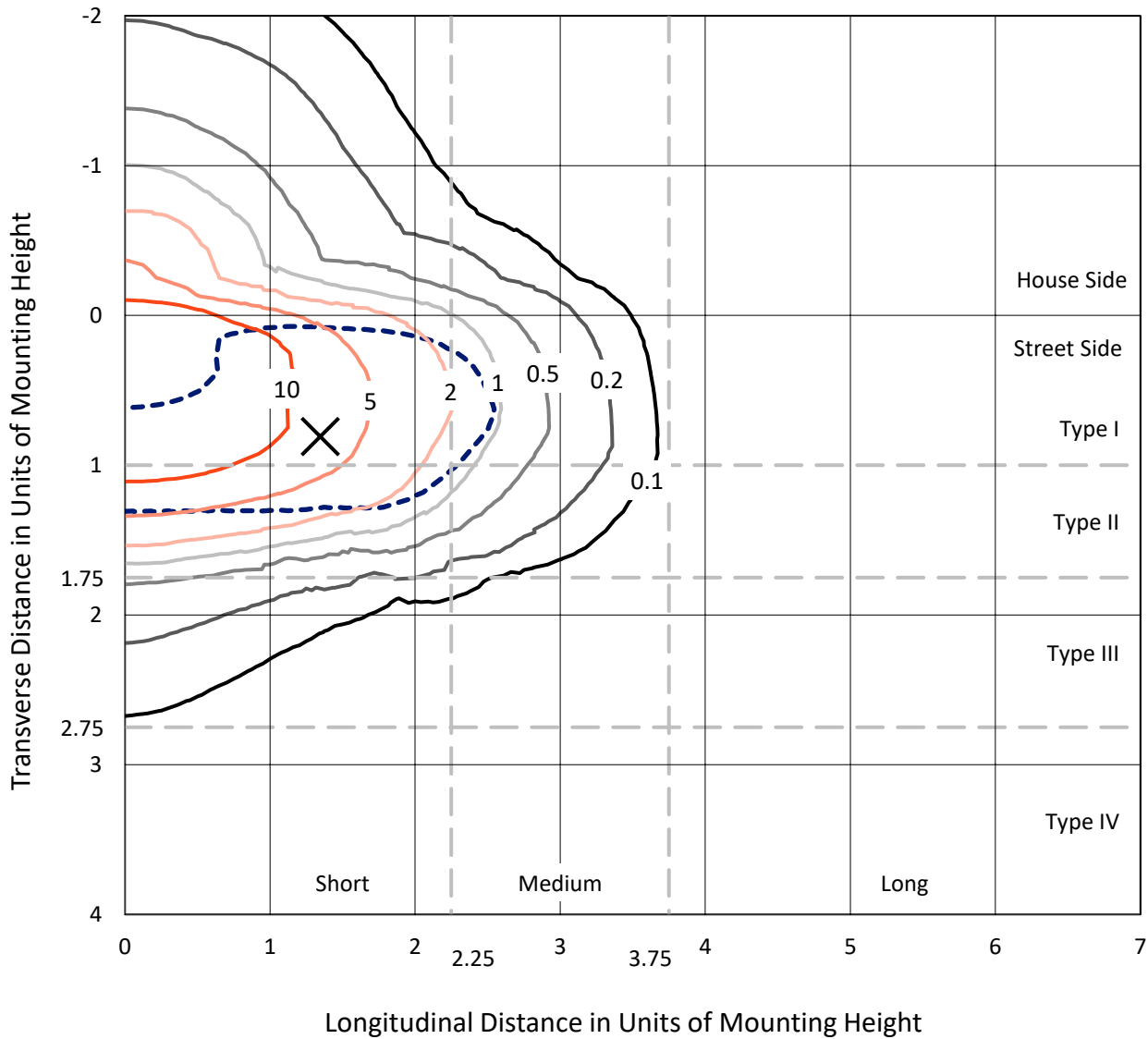
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

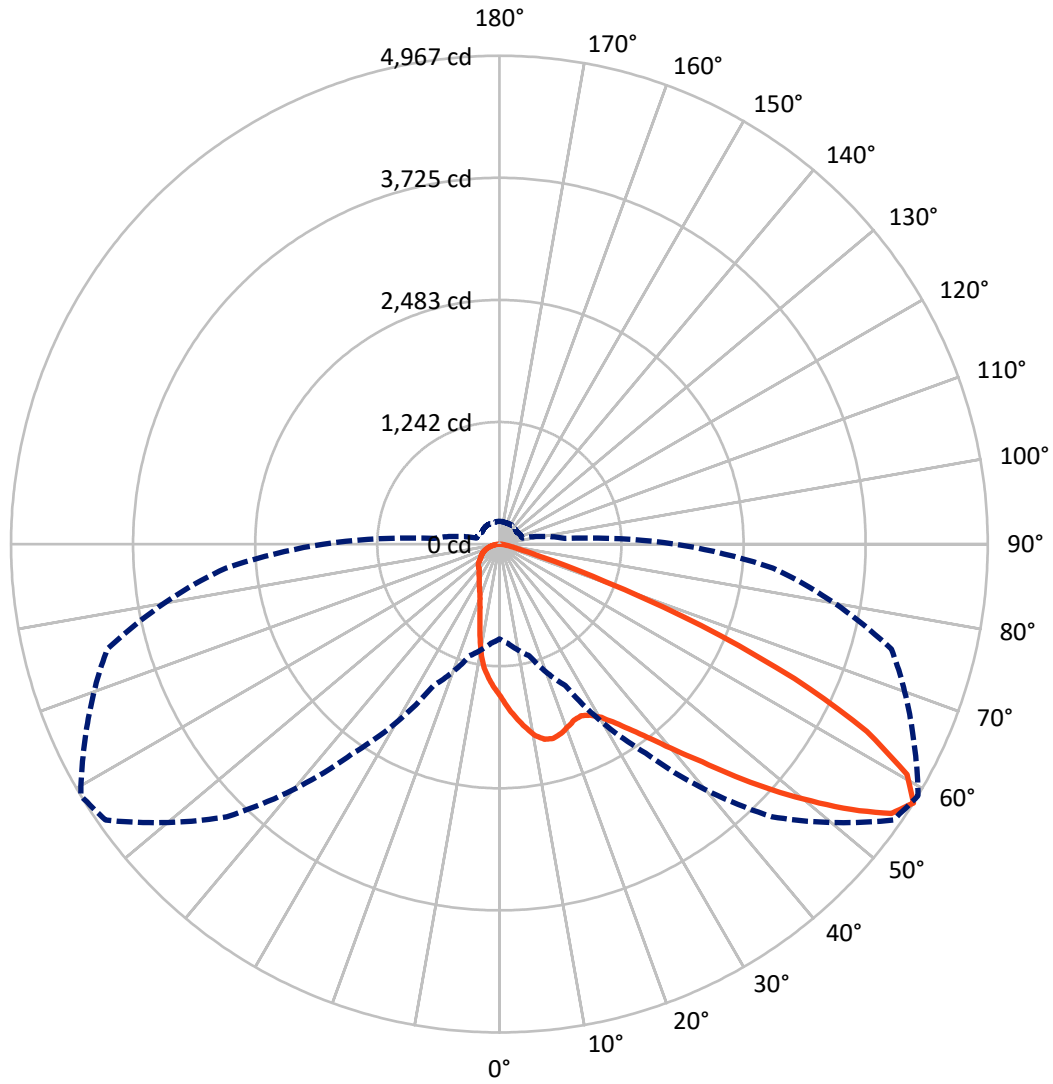
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19 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	980.7	0.0	980.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	5338.7	0.0	5338.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	6319.4	0.0	6319.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	2.3
10°-20°	365.0	5.8
20°-30°	591.7	9.4
30°-40°	951.8	15.1
40°-50°	1478.0	23.4
50°-60°	1592.0	25.2
60°-70°	923.9	14.6
70°-80°	241.2	3.8
80°-90°	31.8	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°	6319.4	100.0
0°-180°	6319.4	100.0

Coefficient of Utilization



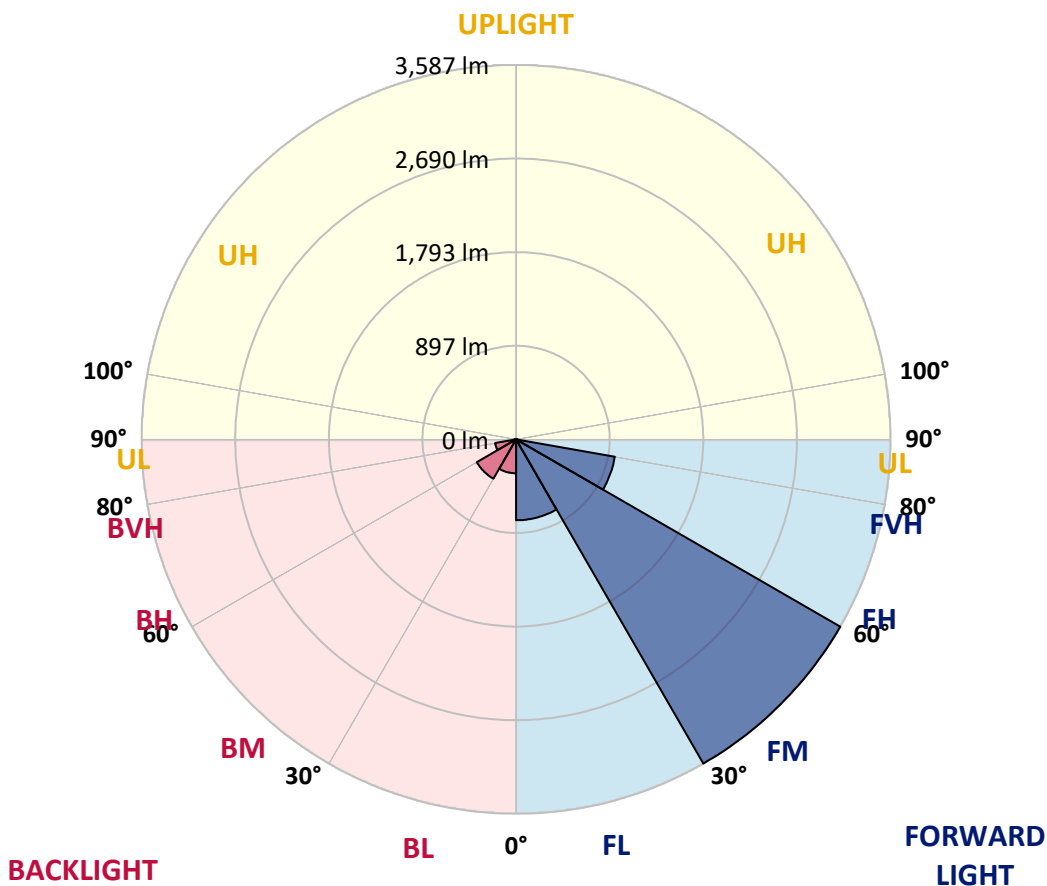
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.3	12.3			
FM (30°-60°)	3587.0	56.8			
FH (60°-80°)	961.1	15.2			G1/1800
FVH (80°-90°)	15.2	0.2			G1/100
BL (0°-30°)	325.4	5.1	B1/500		
BM (30°-60°)	434.8	6.9	B1/1000		
BH (60°-80°)	204.0	3.2	B1/500		G1/500
BVH (80°-90°)	16.6	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°	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3
2.5°	1759.5	1744.8	1755.0	1736.8	1729.2	1709.2	1683.4	1666.1	1639.4	1604.7	1574.4
5°	1934.3	1924.1	1926.3	1906.7	1889.4	1856.0	1803.1	1773.7	1728.3	1658.5	1593.5
7.5°	1929.0	1941.0	1947.7	1964.6	1969.5	1966.4	1918.8	1877.8	1828.0	1723.0	1625.1
10°	1729.2	1751.9	1772.4	1830.2	1900.5	1989.5	2000.6	1976.1	1925.9	1805.3	1663.0
12.5°	1511.7	1529.0	1547.3	1616.7	1724.3	1902.3	2022.9	2038.0	2018.0	1886.7	1705.7
15°	1404.9	1412.9	1430.3	1476.1	1562.0	1759.5	1984.2	2050.4	2086.5	1973.0	1753.7
17.5°	1400.5	1404.0	1412.5	1437.0	1496.6	1649.2	1914.3	2025.5	2140.3	2064.2	1809.8
20°	1492.6	1483.2	1477.9	1477.4	1506.8	1612.2	1846.7	1985.5	2165.7	2157.7	1869.8
22.5°	1620.2	1623.4	1611.8	1583.3	1579.8	1638.5	1812.9	1945.0	2173.2	2240.4	1925.4
25°	1801.3	1816.9	1782.6	1728.3	1701.7	1714.6	1833.8	1932.5	2172.3	2309.4	1960.1
27.5°	2012.6	2024.6	1989.9	1918.8	1863.6	1832.4	1896.1	1969.5	2179.9	2369.0	1981.0
30°	2253.3	2257.3	2209.7	2135.0	2054.4	1987.7	1999.7	2045.5	2218.6	2447.3	2005.5
32.5°	2547.4	2564.3	2492.2	2373.9	2261.3	2175.9	2139.0	2168.3	2302.2	2539.8	2043.3
35°	2920.6	2926.4	2834.8	2665.3	2506.0	2387.7	2310.2	2325.8	2429.5	2669.3	2100.3
37.5°	3272.5	3278.3	3180.9	3023.4	2795.6	2633.7	2521.6	2514.4	2592.3	2852.1	2193.2
40°	3495.8	3512.3	3468.7	3369.9	3152.4	2934.0	2781.8	2757.3	2805.8	3075.9	2322.7
42.5°	3616.0	3623.1	3622.2	3635.1	3505.6	3288.5	3075.4	3026.5	3059.0	3317.4	2453.5
45°	3616.9	3634.6	3682.2	3806.4	3812.2	3676.9	3446.5	3369.9	3340.1	3560.8	2590.1
47.5°	3454.9	3474.0	3604.8	3849.1	4029.3	4059.9	3890.9	3737.4	3612.0	3770.3	2702.2
50°	2964.7	3012.7	3261.8	3693.8	4072.0	4366.9	4314.9	4106.7	3853.5	3932.3	2772.5
52.5°	2538.9	2537.1	2690.6	3255.2	3893.6	4502.2	4725.0	4486.6	4092.4	4035.0	2790.3
55°	1859.1	1869.4	2026.4	2489.5	3417.5	4371.4	4950.6	4836.3	4366.5	4089.8	2783.2
57.5°	964.0	1014.8	1175.8	1588.7	2596.7	3921.1	4890.5	4966.6	4645.0	4128.5	2792.5
60°	487.1	477.4	535.2	758.5	1504.6	3062.5	4520.4	4762.9	4695.2	4158.7	2798.3
62.5°	325.2	322.5	306.5	351.5	614.8	1813.8	3853.5	4193.4	4346.0	4087.5	2724.4
65°	281.6	276.3	246.9	245.1	298.5	752.3	2824.5	3296.5	3591.9	3771.2	2547.8
67.5°	253.6	245.6	215.8	201.1	214.4	330.5	1591.8	2211.0	2652.4	3189.3	2160.8
70°	226.4	222.4	192.6	171.3	169.9	201.5	586.3	1141.1	1622.9	2175.9	1579.8
72.5°	202.9	195.7	170.4	149.9	139.7	142.8	254.5	439.5	839.9	1357.3	944.9
75°	175.7	170.4	148.1	127.7	115.2	104.5	155.3	203.3	383.0	645.1	446.2
77.5°	135.7	132.1	117.0	101.4	94.3	77.9	94.3	128.1	177.1	271.8	232.2
80°	78.7	81.0	87.2	79.2	69.4	55.6	61.4	73.8	106.3	147.3	131.7
82.5°	39.6	42.3	56.5	45.8	41.4	32.5	36.5	43.6	55.6	81.4	51.6
85°	3.1	3.1	10.2	11.6	14.2	11.6	14.7	17.8	25.4	32.5	17.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.2	4.0	7.6	4.9
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°	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3	1551.3
2.5°	1554.0	1531.3	1504.1	1481.9	1447.6	1429.4	1406.3	1377.8	1366.2	1360.9	1357.8
5°	1557.1	1517.0	1459.2	1405.8	1346.6	1299.9	1247.9	1193.6	1162.5	1154.9	1149.6
7.5°	1568.6	1512.6	1420.5	1332.4	1222.5	1120.6	1021.4	923.1	872.8	853.7	851.9
10°	1584.7	1510.8	1381.3	1235.0	1049.5	888.4	772.3	695.3	662.9	652.2	648.6
12.5°	1604.7	1509.5	1329.7	1099.7	849.7	697.6	631.3	618.8	623.3	622.4	622.4
15°	1630.0	1511.2	1267.5	946.7	687.3	605.5	606.8	621.5	635.3	637.5	637.5
17.5°	1657.6	1509.5	1177.1	793.2	589.9	583.7	604.1	624.6	637.1	638.8	638.8
20°	1687.4	1501.0	1063.3	648.6	547.2	569.9	592.1	608.1	615.7	617.5	617.5
22.5°	1705.2	1477.0	939.6	549.0	520.1	548.1	562.8	579.2	580.1	565.9	565.4
25°	1702.5	1432.1	798.6	484.9	491.1	515.6	534.3	522.7	508.5	500.5	499.2
27.5°	1685.6	1364.4	654.9	436.4	456.9	484.5	478.7	468.9	465.3	456.4	455.6
30°	1664.3	1281.2	525.8	398.6	421.3	446.7	437.8	436.9	433.3	423.5	423.5
32.5°	1643.8	1195.4	428.4	370.6	398.6	400.4	412.8	413.7	412.0	395.1	393.3
35°	1638.0	1109.5	362.6	348.3	376.4	375.5	393.3	392.8	362.1	338.6	338.1
37.5°	1655.4	1022.3	323.4	330.1	345.7	357.2	371.5	345.7	335.4	321.2	320.3
40°	1692.3	941.8	303.4	319.4	326.1	343.0	320.8	322.5	319.9	309.2	307.9
42.5°	1741.2	873.3	292.3	315.9	315.0	319.4	295.0	302.1	306.1	298.1	296.7
45°	1788.4	813.7	286.5	302.5	307.0	281.2	276.3	282.9	289.2	286.1	284.7
47.5°	1823.1	762.1	283.4	284.3	296.7	268.3	260.3	263.4	270.9	272.3	271.8
50°	1833.8	718.0	279.8	269.2	266.5	255.4	249.1	248.2	257.1	263.4	264.3
52.5°	1813.3	678.9	270.5	255.8	242.9	244.7	242.5	238.0	246.9	255.4	256.2
55°	1783.1	656.6	255.8	242.9	227.8	234.9	235.8	231.8	237.6	243.3	243.3
57.5°	1785.3	669.5	241.6	230.9	214.4	223.8	228.7	226.9	226.9	231.3	231.8
60°	1800.0	688.2	232.2	215.8	201.1	210.9	222.0	220.2	216.2	222.0	222.0
62.5°	1757.7	663.3	226.0	201.1	186.8	198.4	211.8	210.9	206.4	215.8	216.7
65°	1633.1	596.6	218.9	182.8	172.6	186.0	197.5	200.6	196.6	209.1	211.3
67.5°	1368.9	501.8	205.1	165.5	158.4	170.8	182.0	186.4	183.3	198.0	199.7
70°	1020.5	406.2	183.3	146.4	141.0	152.1	162.4	164.2	164.6	182.0	183.7
72.5°	650.9	315.9	154.4	125.0	121.0	129.5	137.0	144.1	147.3	163.7	163.3
75°	363.0	234.9	124.1	105.9	98.8	105.4	114.3	122.8	131.7	155.7	158.4
77.5°	209.1	165.0	98.3	85.0	76.5	83.6	91.2	103.2	129.9	150.8	148.1
80°	117.9	107.2	74.3	62.3	56.9	62.3	68.1	90.8	102.3	111.2	112.6
82.5°	55.2	60.1	50.7	38.3	38.3	41.8	47.2	70.3	77.4	63.2	55.2
85°	20.0	27.1	24.9	19.6	17.4	16.9	29.4	40.0	24.9	22.2	19.1
87.5°	5.3	7.6	7.1	4.9	2.7	2.2	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)