

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: P630270

Luminaire Tested: GWS-SA1D-735-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630270
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-SA1D-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: 6090.2 lumens
Efficiency: N/A
Efficacy: 137.5 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): 44.3
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

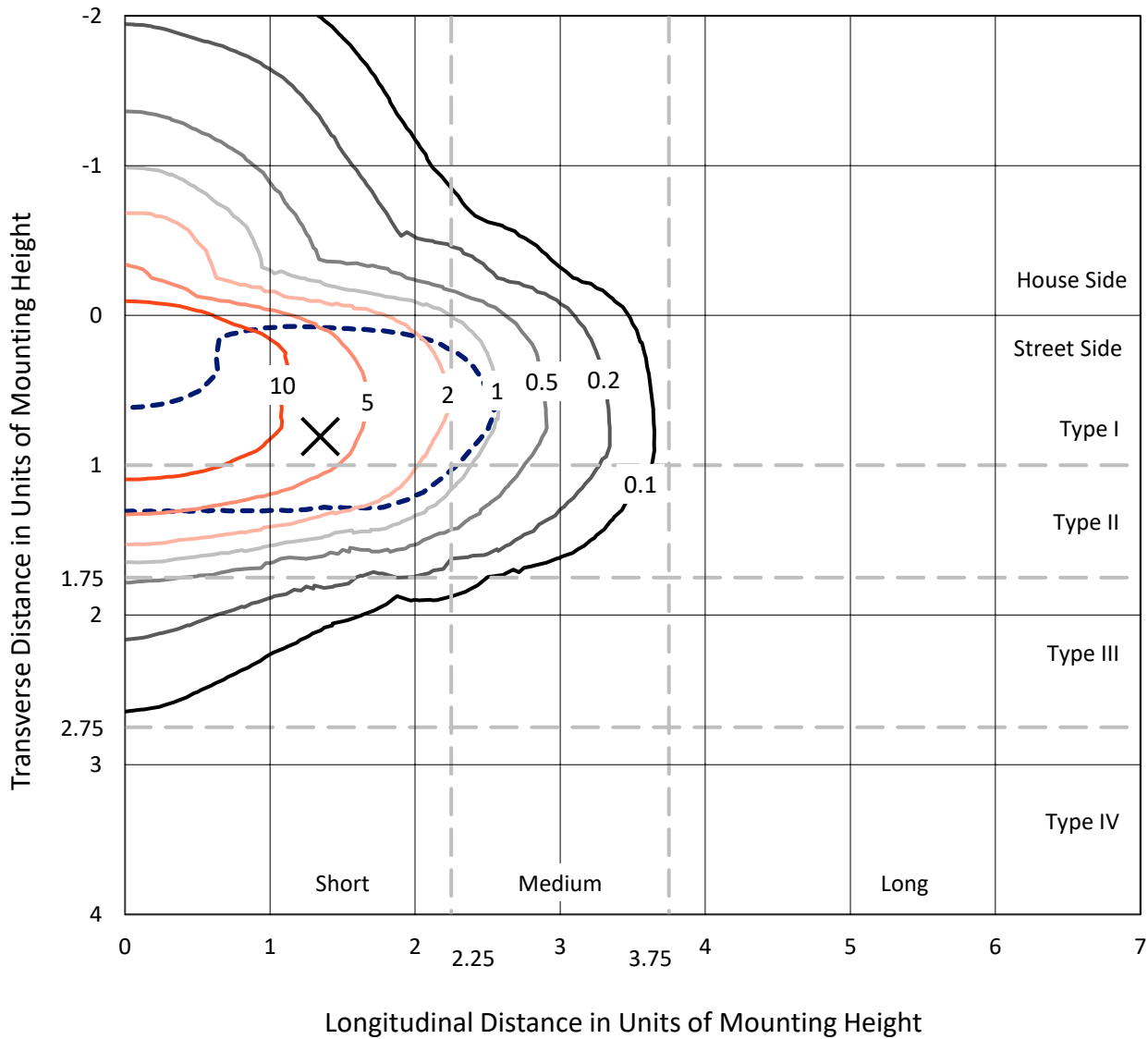


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Iso-Footcandle Lines of Horizontal Illumination

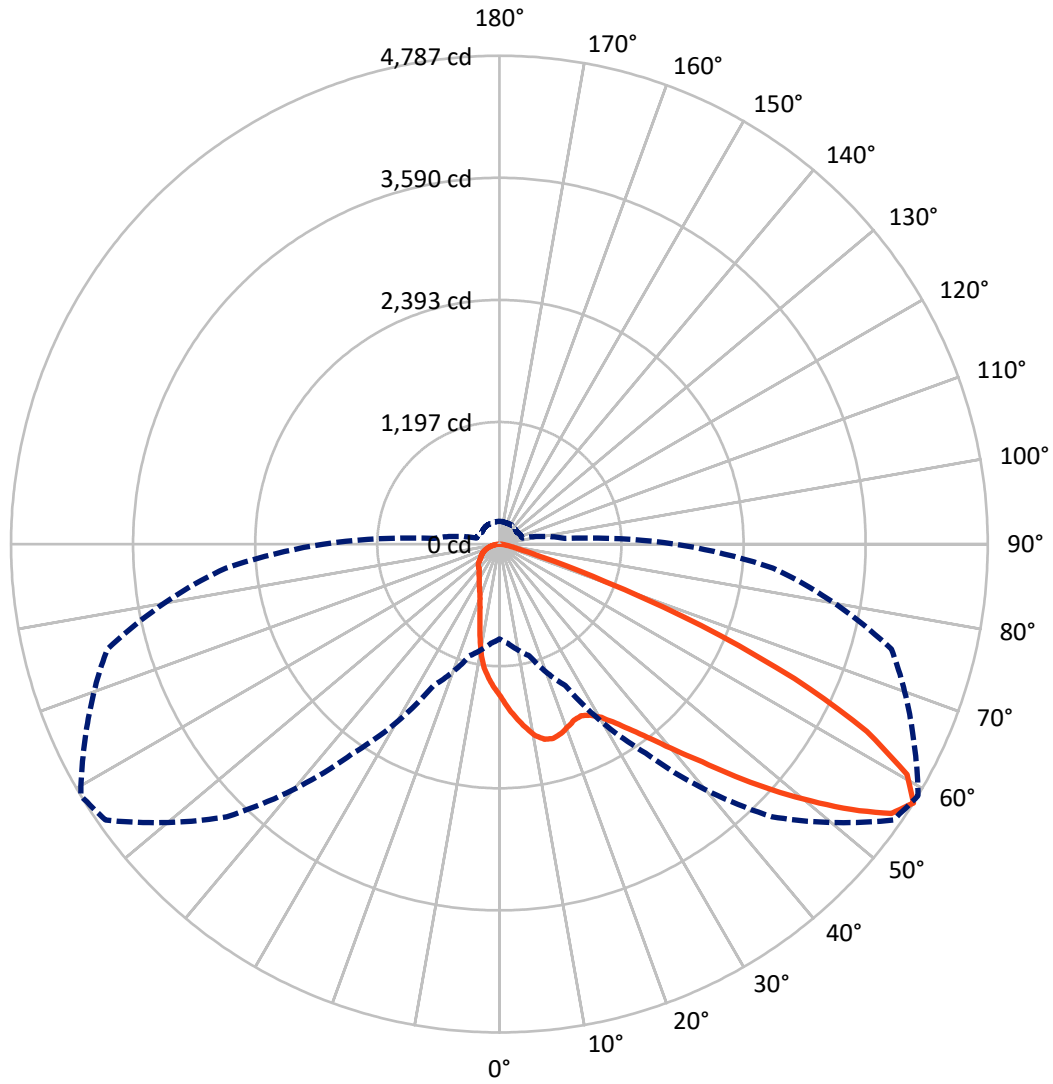
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.3 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	945.2	0.0	945.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	5145.0	0.0	5145.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	6090.2	0.0	6090.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.8	2.3
10°-20°	351.8	5.8
20°-30°	570.2	9.4
30°-40°	917.3	15.1
40°-50°	1424.4	23.4
50°-60°	1534.3	25.2
60°-70°	890.4	14.6
70°-80°	232.5	3.8
80°-90°	30.6	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°	6090.2	100.0
0°-180°	6090.2	100.0

Coefficient of Utilization



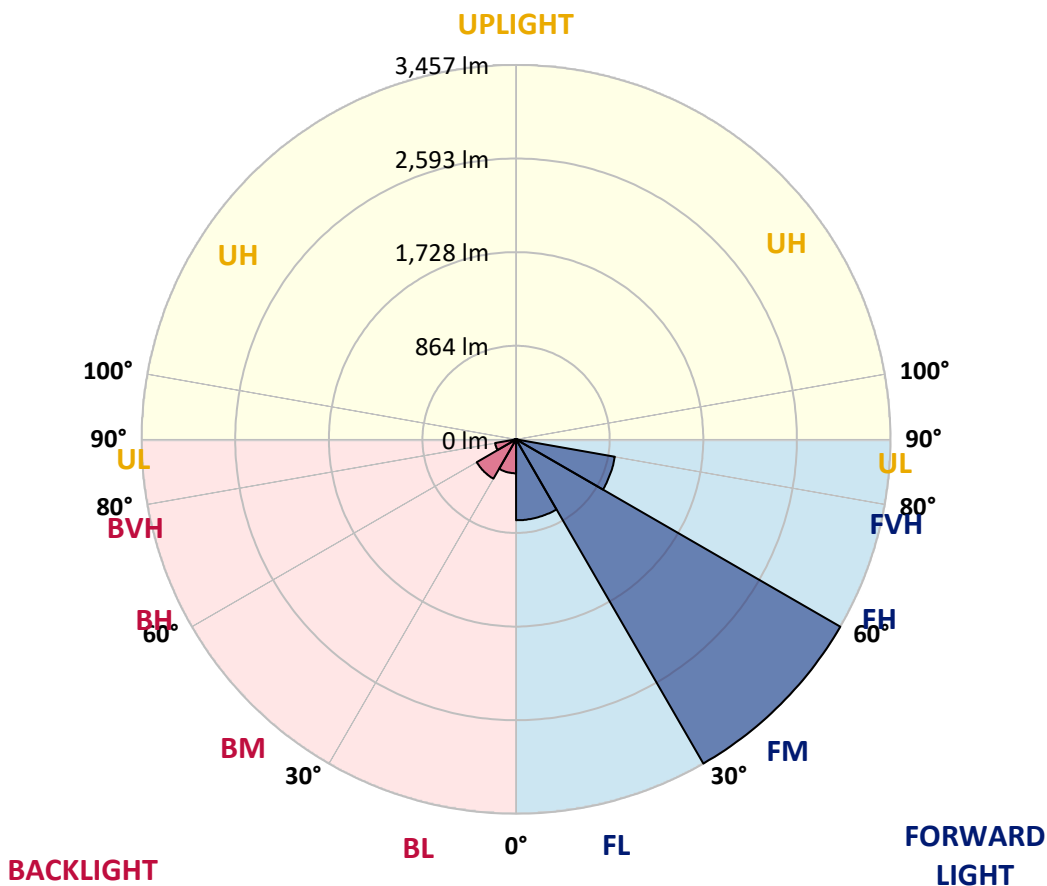
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	747.2	12.3			
FM (30°-60°)	3456.9	56.8			
FH (60°-80°)	926.3	15.2			G1/1800
FVH (80°-90°)	14.7	0.2			G1/100
BL (0°-30°)	313.6	5.1	B1/500		
BM (30°-60°)	419.1	6.9	B1/1000		
BH (60°-80°)	196.6	3.2	B1/500		G1/500
BVH (80°-90°)	16.0	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°	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0
2.5°	1695.7	1681.5	1691.4	1673.8	1666.5	1647.2	1622.4	1605.6	1579.9	1546.5	1517.3
5°	1864.2	1854.3	1856.5	1837.6	1820.9	1788.7	1737.7	1709.4	1665.7	1598.3	1535.8
7.5°	1859.0	1870.6	1877.0	1893.3	1898.0	1895.0	1849.2	1809.7	1761.7	1660.5	1566.2
10°	1666.5	1688.4	1708.1	1763.8	1831.6	1917.3	1928.1	1904.5	1856.0	1739.8	1602.6
12.5°	1456.9	1473.6	1491.2	1558.0	1661.8	1833.3	1949.5	1964.1	1944.8	1818.3	1643.8
15°	1354.0	1361.7	1378.4	1422.6	1505.3	1695.7	1912.2	1976.1	2010.8	1901.5	1690.1
17.5°	1349.7	1353.1	1361.3	1384.8	1442.3	1589.3	1844.9	1952.1	2062.7	1989.4	1744.1
20°	1438.4	1429.4	1424.3	1423.9	1452.1	1553.8	1779.7	1913.5	2087.1	2079.4	1802.0
22.5°	1561.5	1564.5	1553.3	1525.9	1522.5	1579.1	1747.1	1874.5	2094.4	2159.1	1855.6
25°	1736.0	1751.0	1718.0	1665.7	1639.9	1652.4	1767.3	1862.5	2093.5	2225.6	1889.0
27.5°	1939.6	1951.2	1917.8	1849.2	1796.0	1766.0	1827.3	1898.0	2100.8	2283.0	1909.2
30°	2171.6	2175.4	2129.6	2057.5	1979.9	1915.6	1927.2	1971.4	2138.1	2358.5	1932.8
32.5°	2455.0	2471.3	2401.8	2287.8	2179.3	2097.0	2061.4	2089.7	2218.7	2447.7	1969.2
35°	2814.7	2820.3	2731.9	2568.6	2415.1	2301.1	2226.5	2241.5	2341.4	2572.5	2024.1
37.5°	3153.8	3159.4	3065.5	2913.7	2694.2	2538.2	2430.1	2423.2	2498.3	2748.7	2113.7
40°	3369.1	3384.9	3342.9	3247.7	3038.1	2827.6	2680.9	2657.3	2704.1	2964.3	2238.5
42.5°	3484.8	3491.7	3490.8	3503.2	3378.5	3169.3	2963.9	2916.7	2948.0	3197.1	2364.5
45°	3485.7	3502.8	3548.7	3668.3	3673.9	3543.6	3321.5	3247.7	3219.0	3431.6	2496.1
47.5°	3329.6	3348.0	3474.1	3709.5	3883.1	3912.7	3749.8	3601.9	3481.0	3633.6	2604.2
50°	2857.1	2903.4	3143.5	3559.8	3924.3	4208.5	4158.4	3957.7	3713.8	3789.6	2671.9
52.5°	2446.8	2445.1	2593.0	3137.1	3752.3	4338.9	4553.7	4323.9	3944.0	3888.7	2689.1
55°	1791.7	1801.6	1952.9	2399.2	3293.6	4212.8	4771.0	4660.9	4208.1	3941.4	2682.2
57.5°	929.1	978.0	1133.2	1531.0	2502.6	3778.9	4713.2	4786.5	4476.5	3978.7	2691.2
60°	469.5	460.0	515.8	731.0	1450.0	2951.5	4356.4	4590.1	4524.9	4007.9	2696.8
62.5°	313.4	310.8	295.4	338.7	592.5	1748.0	3713.8	4041.3	4188.4	3939.3	2625.6
65°	271.4	266.2	238.0	236.2	287.7	725.0	2722.1	3177.0	3461.7	3634.4	2455.4
67.5°	244.4	236.7	207.9	193.8	206.7	318.6	1534.0	2130.8	2556.2	3073.6	2082.4
70°	218.2	214.4	185.6	165.1	163.8	194.2	565.1	1099.7	1564.0	2097.0	1522.5
72.5°	195.5	188.6	164.2	144.5	134.6	137.6	245.2	423.6	809.5	1308.1	910.6
75°	169.4	164.2	142.8	123.0	111.0	100.8	149.6	195.9	369.1	621.7	430.0
77.5°	130.8	127.3	112.8	97.8	90.9	75.0	90.9	123.5	170.6	262.0	223.8
80°	75.9	78.0	84.0	76.3	66.9	53.6	59.2	71.2	102.5	141.9	126.9
82.5°	38.2	40.7	54.5	44.2	39.9	31.3	35.2	42.0	53.6	78.5	49.7
85°	3.0	3.0	9.9	11.1	13.7	11.1	14.1	17.1	24.4	31.3	16.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.1	3.9	7.3	4.7
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°	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0	1495.0
2.5°	1497.6	1475.7	1449.6	1428.1	1395.1	1377.5	1355.3	1327.8	1316.7	1311.5	1308.5
5°	1500.6	1462.0	1406.3	1354.8	1297.8	1252.8	1202.6	1150.3	1120.3	1113.0	1107.9
7.5°	1511.7	1457.7	1369.0	1284.1	1178.2	1080.0	984.4	889.6	841.2	822.8	821.0
10°	1527.2	1456.0	1331.2	1190.2	1011.4	856.2	744.3	670.1	638.8	628.5	625.1
12.5°	1546.5	1454.7	1281.5	1059.8	818.9	672.3	608.4	596.4	600.7	599.8	599.8
15°	1570.9	1456.4	1221.5	912.4	662.4	583.5	584.8	599.0	612.2	614.4	614.4
17.5°	1597.5	1454.7	1134.5	764.4	568.5	562.5	582.2	602.0	614.0	615.7	615.7
20°	1626.2	1446.6	1024.7	625.1	527.4	549.2	570.7	586.1	593.4	595.1	595.1
22.5°	1643.4	1423.4	905.5	529.1	501.2	528.2	542.4	558.2	559.1	545.4	544.9
25°	1640.8	1380.1	769.6	467.3	473.3	496.9	514.9	503.8	490.1	482.3	481.0
27.5°	1624.5	1315.0	631.1	420.6	440.3	466.9	461.3	451.9	448.5	439.9	439.0
30°	1603.9	1234.8	506.8	384.2	406.0	430.5	421.9	421.0	417.6	408.2	408.2
32.5°	1584.2	1152.0	412.9	357.1	384.2	385.9	397.9	398.7	397.0	380.7	379.0
35°	1578.6	1069.3	349.4	335.7	362.7	361.9	379.0	378.6	349.0	326.3	325.8
37.5°	1595.3	985.2	311.7	318.1	333.1	344.3	358.0	333.1	323.3	309.6	308.7
40°	1630.9	907.6	292.4	307.8	314.3	330.6	309.1	310.8	308.3	298.0	296.7
42.5°	1678.1	841.6	281.7	304.4	303.5	307.8	284.3	291.1	295.0	287.3	286.0
45°	1723.5	784.2	276.1	291.5	295.8	271.0	266.2	272.7	278.7	275.7	274.4
47.5°	1757.0	734.4	273.1	274.0	286.0	258.5	250.8	253.8	261.1	262.4	262.0
50°	1767.3	692.0	269.7	259.4	256.8	246.1	240.1	239.2	247.8	253.8	254.7
52.5°	1747.6	654.3	260.7	246.5	234.1	235.8	233.7	229.4	238.0	246.1	247.0
55°	1718.4	632.8	246.5	234.1	219.5	226.4	227.2	223.4	228.9	234.5	234.5
57.5°	1720.5	645.3	232.8	222.5	206.7	215.7	220.4	218.7	218.7	222.9	223.4
60°	1734.7	663.3	223.8	207.9	193.8	203.2	213.9	212.2	208.4	213.9	213.9
62.5°	1694.0	639.3	217.8	193.8	180.1	191.2	204.1	203.2	198.9	207.9	208.8
65°	1573.9	574.9	210.9	176.2	166.4	179.2	190.4	193.4	189.5	201.5	203.7
67.5°	1319.2	483.6	197.6	159.5	152.6	164.6	175.4	179.6	176.6	190.8	192.5
70°	983.5	391.4	176.6	141.1	135.9	146.6	156.5	158.2	158.6	175.4	177.1
72.5°	627.2	304.4	148.8	120.5	116.6	124.8	132.1	138.9	141.9	157.8	157.3
75°	349.9	226.4	119.6	102.0	95.2	101.6	110.2	118.3	126.9	150.1	152.6
77.5°	201.5	159.1	94.8	81.9	73.7	80.6	87.9	99.5	125.2	145.3	142.8
80°	113.6	103.3	71.6	60.0	54.9	60.0	65.6	87.5	98.6	107.2	108.5
82.5°	53.2	57.9	48.9	36.9	36.9	40.3	45.4	67.7	74.6	60.9	53.2
85°	19.3	26.2	24.0	18.9	16.7	16.3	28.3	38.6	24.0	21.4	18.4
87.5°	5.1	7.3	6.9	4.7	2.6	2.1	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)