

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: P630160

Luminaire Tested: GWS-SA1D-727-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630160
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-727-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5164 lumens
Efficiency: N/A
Efficacy: 116.6 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

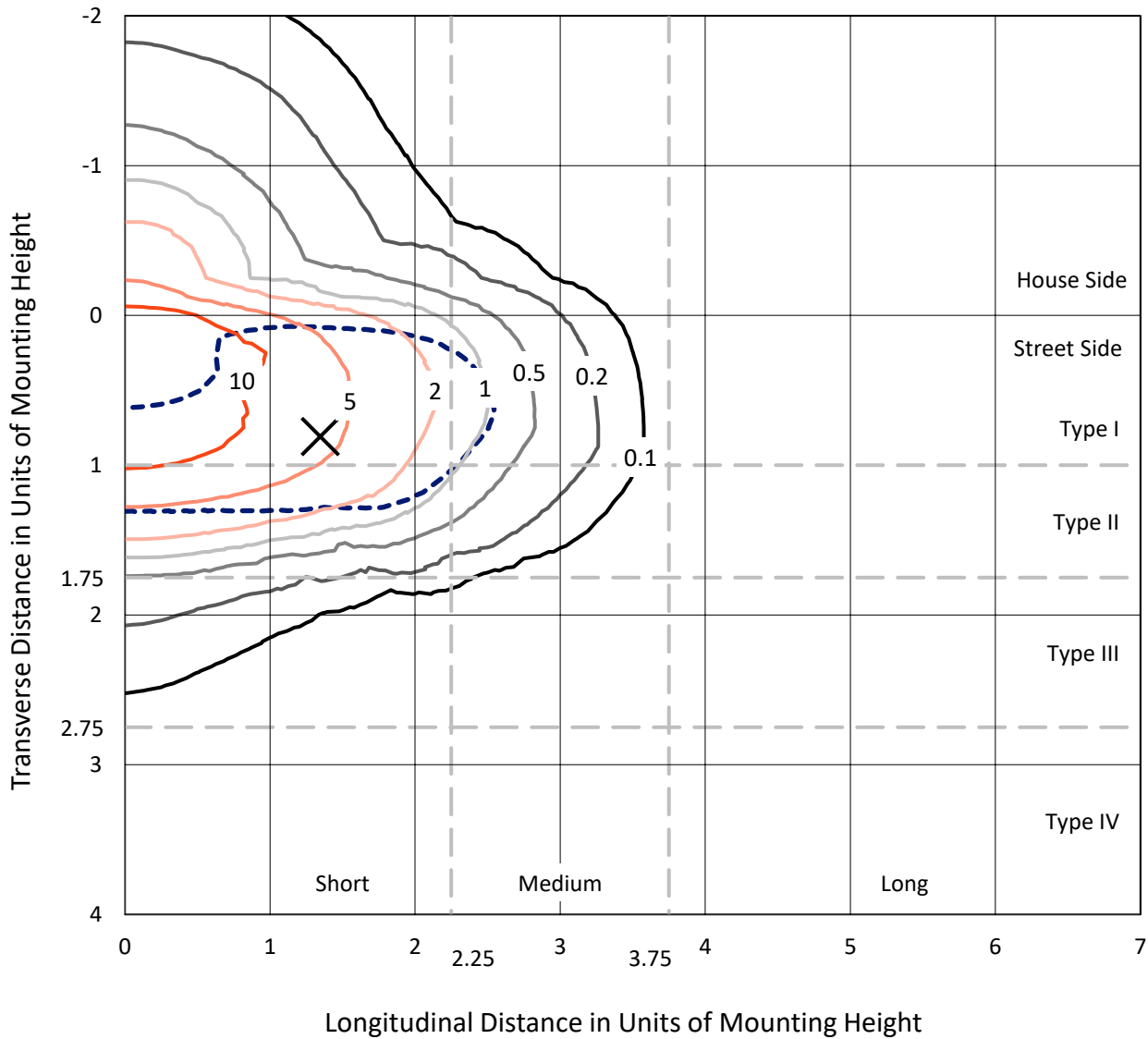
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

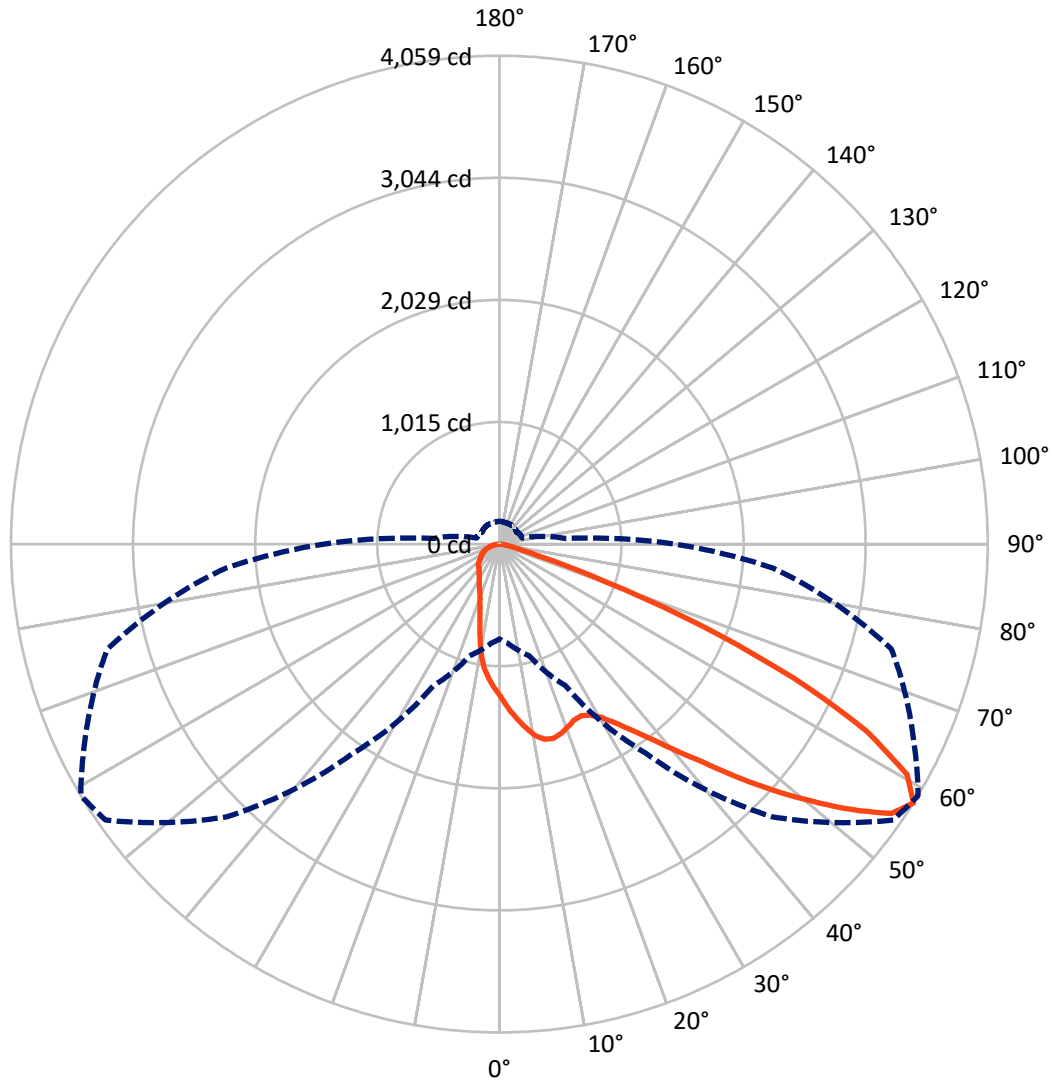
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 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	801.4	0.0	801.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	4362.6	0.0	4362.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	5164.0	0.0	5164.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	2.3
10°-20°	298.3	5.8
20°-30°	483.5	9.4
30°-40°	777.8	15.1
40°-50°	1207.8	23.4
50°-60°	1300.9	25.2
60°-70°	755.0	14.6
70°-80°	197.1	3.8
80°-90°	26.0	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°	5164.0	100.0
0°-180°	5164.0	100.0

Coefficient of Utilization



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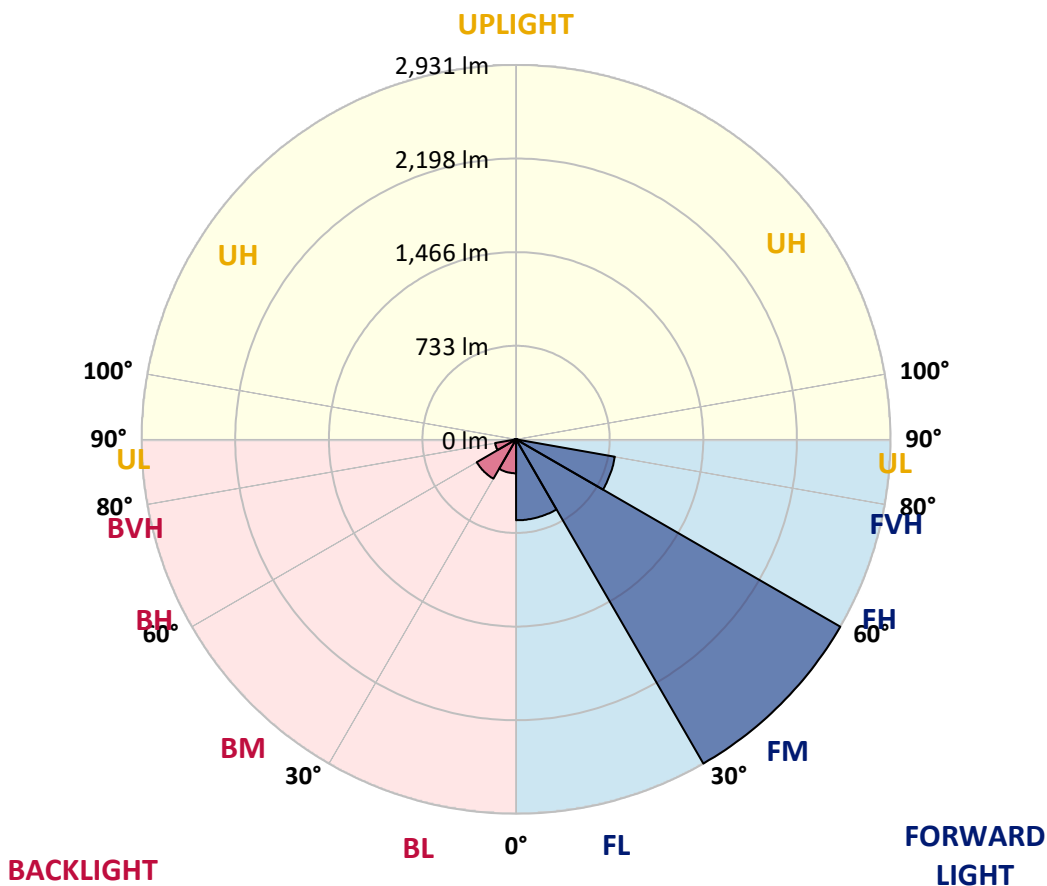
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	633.6	12.3			
FM (30°-60°)	2931.1	56.8			
FH (60°-80°)	785.4	15.2			G1/1800
FVH (80°-90°)	12.4	0.2			G1/100
BL (0°-30°)	265.9	5.1	B1/500		
BM (30°-60°)	355.3	6.9	B1/1000		
BH (60°-80°)	166.7	3.2	B1/500		G1/500
BVH (80°-90°)	13.5	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°	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7
2.5°	1437.8	1425.8	1434.2	1419.3	1413.1	1396.7	1375.6	1361.5	1339.6	1311.3	1286.6
5°	1580.7	1572.3	1574.1	1558.1	1543.9	1516.7	1473.4	1449.4	1412.3	1355.3	1302.2
7.5°	1576.3	1586.1	1591.6	1605.4	1609.4	1606.8	1567.9	1534.5	1493.8	1408.0	1328.0
10°	1413.1	1431.6	1448.3	1495.6	1553.0	1625.7	1634.8	1614.8	1573.8	1475.2	1358.9
12.5°	1235.3	1249.5	1264.4	1321.1	1409.1	1554.5	1653.0	1665.4	1649.0	1541.8	1393.8
15°	1148.1	1154.6	1168.8	1206.2	1276.4	1437.8	1621.4	1675.5	1705.0	1612.3	1433.1
17.5°	1144.4	1147.3	1154.2	1174.2	1222.9	1347.6	1564.3	1655.2	1749.0	1686.8	1478.9
20°	1219.7	1212.0	1207.7	1207.3	1231.3	1317.5	1509.0	1622.5	1769.7	1763.2	1528.0
22.5°	1324.0	1326.6	1317.1	1293.8	1290.9	1338.9	1481.4	1589.4	1775.9	1830.8	1573.4
25°	1472.0	1484.7	1456.7	1412.3	1390.5	1401.1	1498.5	1579.2	1775.2	1887.1	1601.8
27.5°	1644.6	1654.5	1626.1	1567.9	1522.9	1497.4	1549.4	1609.4	1781.3	1935.8	1618.8
30°	1841.3	1844.6	1805.7	1744.6	1678.8	1624.3	1634.1	1671.6	1813.0	1999.8	1638.8
32.5°	2081.6	2095.4	2036.5	1939.8	1847.9	1778.1	1747.9	1771.9	1881.3	2075.4	1669.7
35°	2386.6	2391.4	2316.5	2178.0	2047.8	1951.1	1887.9	1900.6	1985.3	2181.2	1716.3
37.5°	2674.2	2678.9	2599.3	2470.6	2284.5	2152.1	2060.5	2054.7	2118.3	2330.6	1792.2
40°	2856.7	2870.1	2834.5	2753.8	2576.0	2397.5	2273.2	2253.2	2292.8	2513.5	1898.0
42.5°	2954.8	2960.7	2959.9	2970.5	2864.7	2687.3	2513.1	2473.2	2499.7	2710.9	2004.9
45°	2955.6	2970.1	3009.0	3110.4	3115.2	3004.6	2816.3	2753.8	2729.4	2909.8	2116.5
47.5°	2823.2	2838.9	2945.8	3145.3	3292.6	3317.7	3179.5	3054.1	2951.6	3081.0	2208.1
50°	2422.6	2461.9	2665.5	3018.5	3327.5	3568.5	3526.0	3355.8	3149.0	3213.3	2265.6
52.5°	2074.7	2073.3	2198.7	2660.0	3181.7	3679.0	3861.1	3666.3	3344.2	3297.3	2280.1
55°	1519.2	1527.6	1655.9	2034.4	2792.7	3572.1	4045.5	3952.0	3568.1	3342.0	2274.3
57.5°	787.8	829.2	960.8	1298.2	2122.0	3204.2	3996.4	4058.5	3795.7	3373.6	2281.9
60°	398.1	390.1	437.3	619.8	1229.5	2502.6	3693.9	3892.0	3836.8	3398.4	2286.7
62.5°	265.7	263.6	250.5	287.2	502.4	1482.1	3149.0	3426.7	3551.4	3340.2	2226.3
65°	230.1	225.8	201.8	200.3	243.9	614.7	2308.1	2693.8	2935.2	3081.7	2082.0
67.5°	207.2	200.7	176.3	164.3	175.2	270.1	1300.7	1806.8	2167.4	2606.2	1765.7
70°	185.0	181.8	157.4	140.0	138.9	164.7	479.1	932.5	1326.2	1778.1	1290.9
72.5°	165.8	160.0	139.2	122.5	114.2	116.7	207.9	359.2	686.4	1109.2	772.2
75°	143.6	139.2	121.1	104.3	94.2	85.4	126.9	166.1	313.0	527.1	364.6
77.5°	110.9	108.0	95.6	82.9	77.1	63.6	77.1	104.7	144.7	222.1	189.8
80°	64.3	66.2	71.3	64.7	56.7	45.4	50.2	60.3	86.9	120.3	107.6
82.5°	32.4	34.5	46.2	37.4	33.8	26.5	29.8	35.6	45.4	66.5	42.2
85°	2.5	2.5	8.4	9.5	11.6	9.5	12.0	14.5	20.7	26.5	14.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.8	3.3	6.2	4.0
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°	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7
2.5°	1269.8	1251.3	1229.1	1210.9	1183.0	1168.0	1149.1	1125.9	1116.4	1112.1	1109.5
5°	1272.4	1239.7	1192.4	1148.8	1100.4	1062.3	1019.7	975.4	949.9	943.7	939.4
7.5°	1281.8	1236.0	1160.8	1088.8	999.0	915.8	834.7	754.3	713.3	697.6	696.2
10°	1294.9	1234.6	1128.8	1009.2	857.6	726.0	631.1	568.2	541.7	532.9	530.0
12.5°	1311.3	1233.5	1086.6	898.7	694.4	570.0	515.9	505.7	509.3	508.6	508.6
15°	1332.0	1234.9	1035.7	773.6	561.7	494.8	495.9	507.9	519.1	521.0	521.0
17.5°	1354.5	1233.5	961.9	648.2	482.1	477.0	493.7	510.4	520.6	522.0	522.0
20°	1378.9	1226.6	868.9	530.0	447.2	465.7	483.9	497.0	503.1	504.6	504.6
22.5°	1393.4	1206.9	767.8	448.6	425.0	447.9	459.9	473.3	474.1	462.4	462.1
25°	1391.3	1170.2	652.6	396.3	401.3	421.3	436.6	427.2	415.5	409.0	407.9
27.5°	1377.4	1115.0	535.1	356.6	373.4	395.9	391.2	383.2	380.3	373.0	372.3
30°	1360.0	1047.0	429.7	325.7	344.3	365.0	357.7	357.0	354.1	346.1	346.1
32.5°	1343.3	976.8	350.1	302.8	325.7	327.2	337.4	338.1	336.6	322.8	321.4
35°	1338.5	906.7	296.3	284.7	307.6	306.8	321.4	321.0	295.9	276.7	276.3
37.5°	1352.7	835.4	264.3	269.7	282.5	291.9	303.6	282.5	274.1	262.5	261.7
40°	1382.9	769.6	247.9	261.0	266.5	280.3	262.1	263.6	261.4	252.7	251.6
42.5°	1422.9	713.6	238.8	258.1	257.4	261.0	241.0	246.8	250.1	243.6	242.5
45°	1461.4	664.9	234.1	247.2	250.8	229.8	225.8	231.2	236.3	233.8	232.7
47.5°	1489.8	622.7	231.6	232.3	242.5	219.2	212.7	215.2	221.4	222.5	222.1
50°	1498.5	586.8	228.7	219.9	217.8	208.7	203.6	202.9	210.1	215.2	215.9
52.5°	1481.8	554.8	221.0	209.0	198.5	199.9	198.1	194.5	201.8	208.7	209.4
55°	1457.1	536.6	209.0	198.5	186.1	191.9	192.7	189.4	194.1	198.9	198.9
57.5°	1458.9	547.1	197.4	188.7	175.2	182.9	186.9	185.4	185.4	189.0	189.4
60°	1470.9	562.4	189.8	176.3	164.3	172.3	181.4	180.0	176.7	181.4	181.4
62.5°	1436.3	542.0	184.7	164.3	152.7	162.1	173.0	172.3	168.7	176.3	177.0
65°	1334.5	487.5	178.9	149.4	141.1	152.0	161.4	164.0	160.7	170.9	172.7
67.5°	1118.6	410.1	167.6	135.2	129.4	139.6	148.7	152.3	149.8	161.8	163.2
70°	834.0	331.9	149.8	119.6	115.2	124.3	132.7	134.1	134.5	148.7	150.1
72.5°	531.9	258.1	126.1	102.2	98.9	105.8	112.0	117.8	120.3	133.8	133.4
75°	296.6	191.9	101.4	86.5	80.7	86.2	93.4	100.3	107.6	127.2	129.4
77.5°	170.9	134.9	80.3	69.4	62.5	68.3	74.5	84.3	106.2	123.2	121.1
80°	96.3	87.6	60.7	50.9	46.5	50.9	55.6	74.2	83.6	90.9	92.0
82.5°	45.1	49.1	41.4	31.3	31.3	34.2	38.5	57.4	63.3	51.6	45.1
85°	16.4	22.2	20.4	16.0	14.2	13.8	24.0	32.7	20.4	18.2	15.6
87.5°	4.4	6.2	5.8	4.0	2.2	1.8	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)