

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P317228

Luminaire Tested: **GAN-SA4A-827-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14125 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

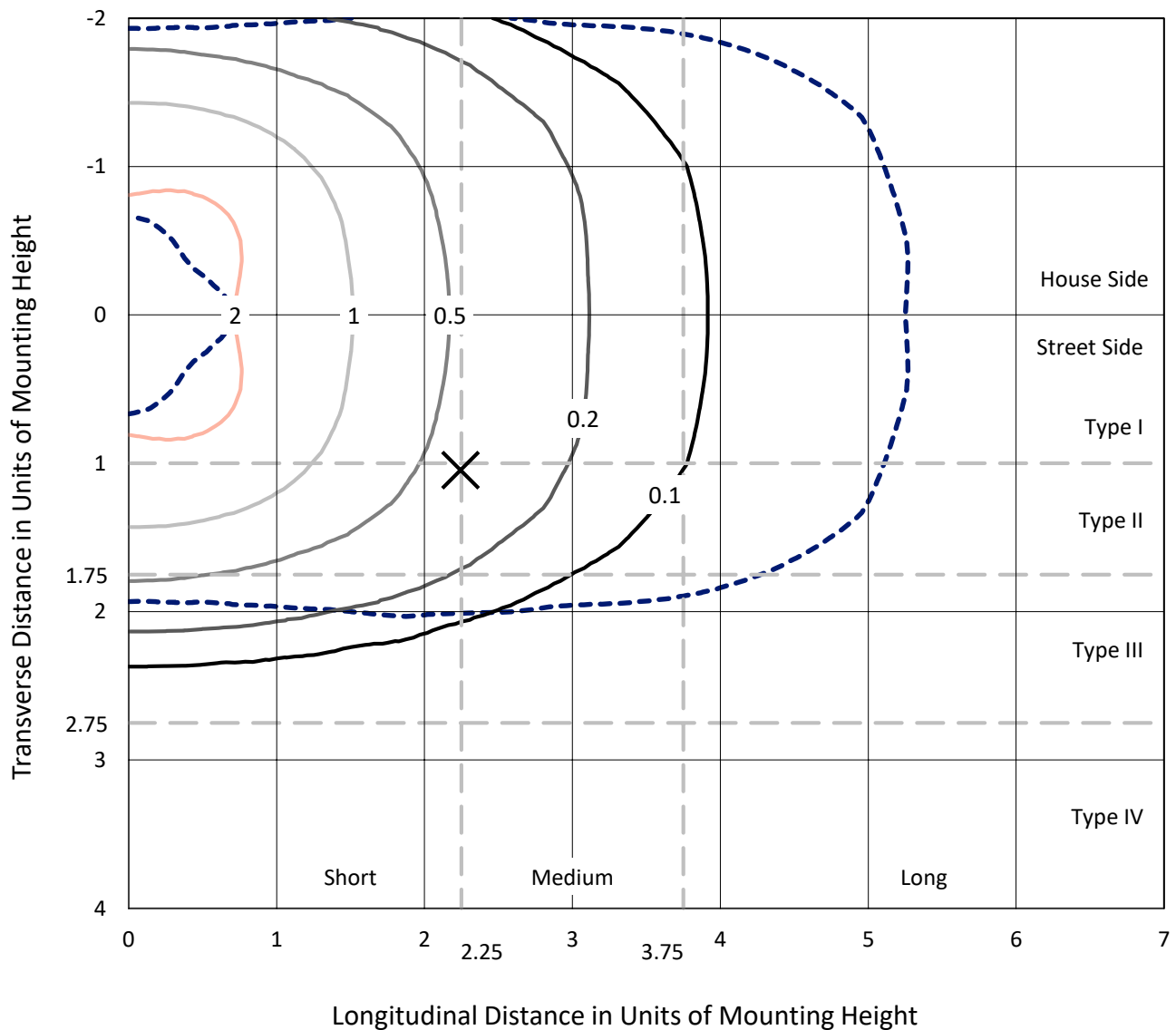


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Iso-Footcandle Lines of Horizontal Illumination

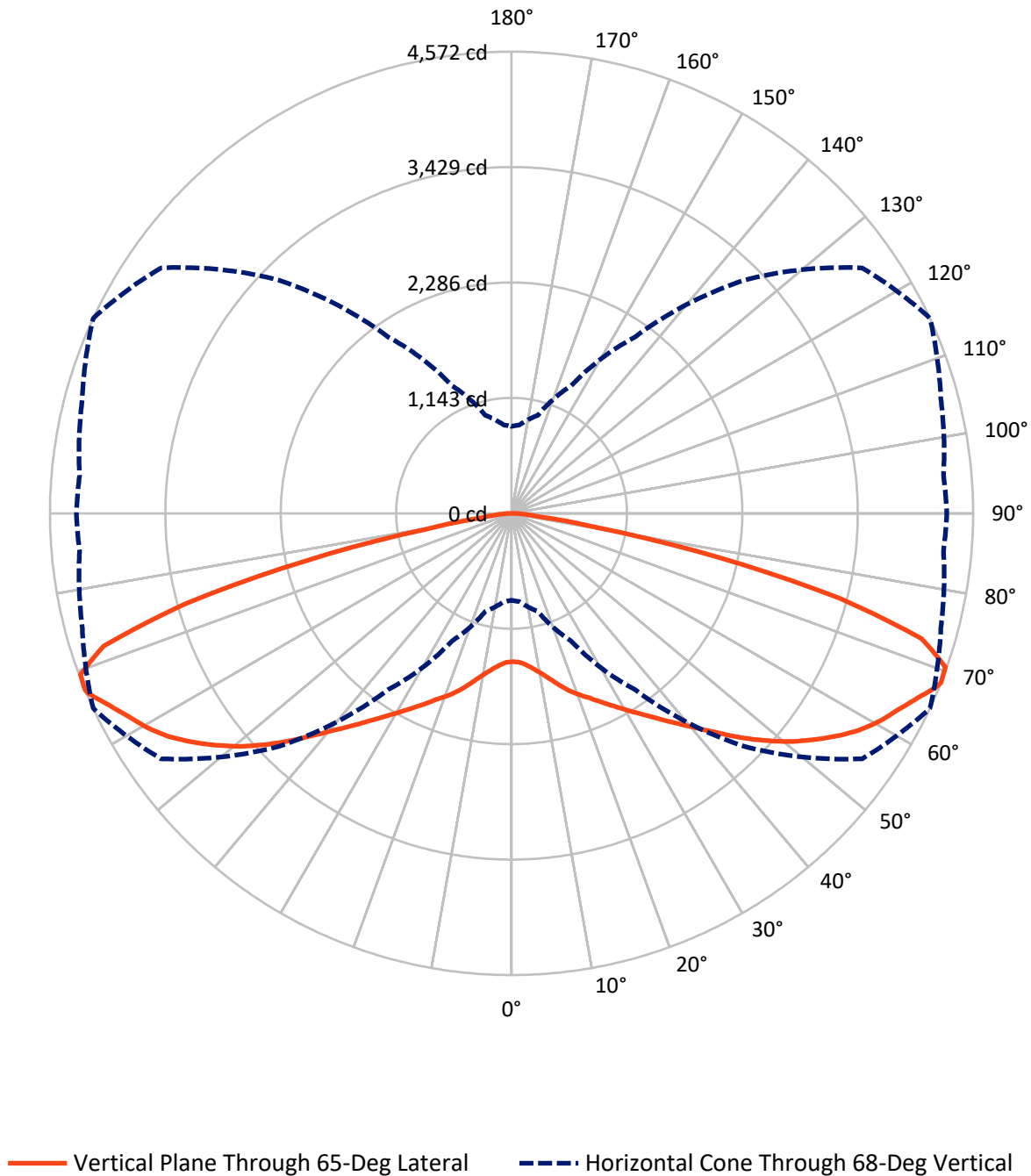
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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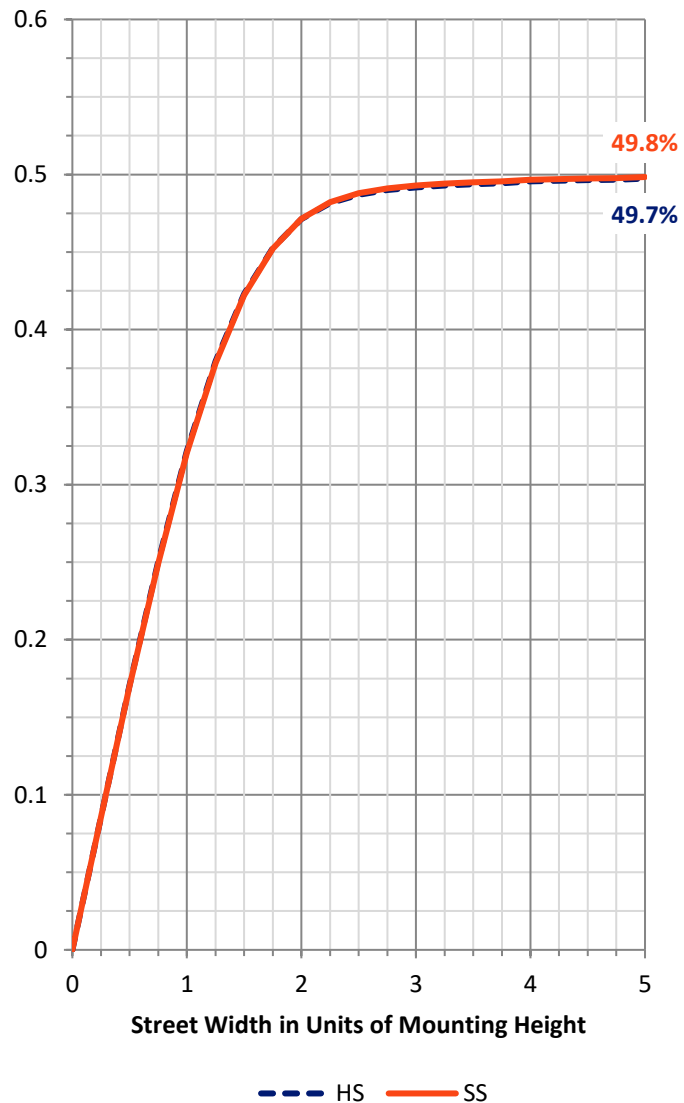
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7062.5	0.0	7062.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7062.5	0.0	7062.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14125.0	0.0	14125.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	1.0
10°-20°	481.5	3.4
20°-30°	938.8	6.6
30°-40°	1577.0	11.2
40°-50°	2484.9	17.6
50°-60°	3323.1	23.5
60°-70°	3230.4	22.9
70°-80°	1765.9	12.5
80°-90°	179.6	1.3
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°	14125.0	100.0
0°-180°	14125.0	100.0

Coefficient of Utilization



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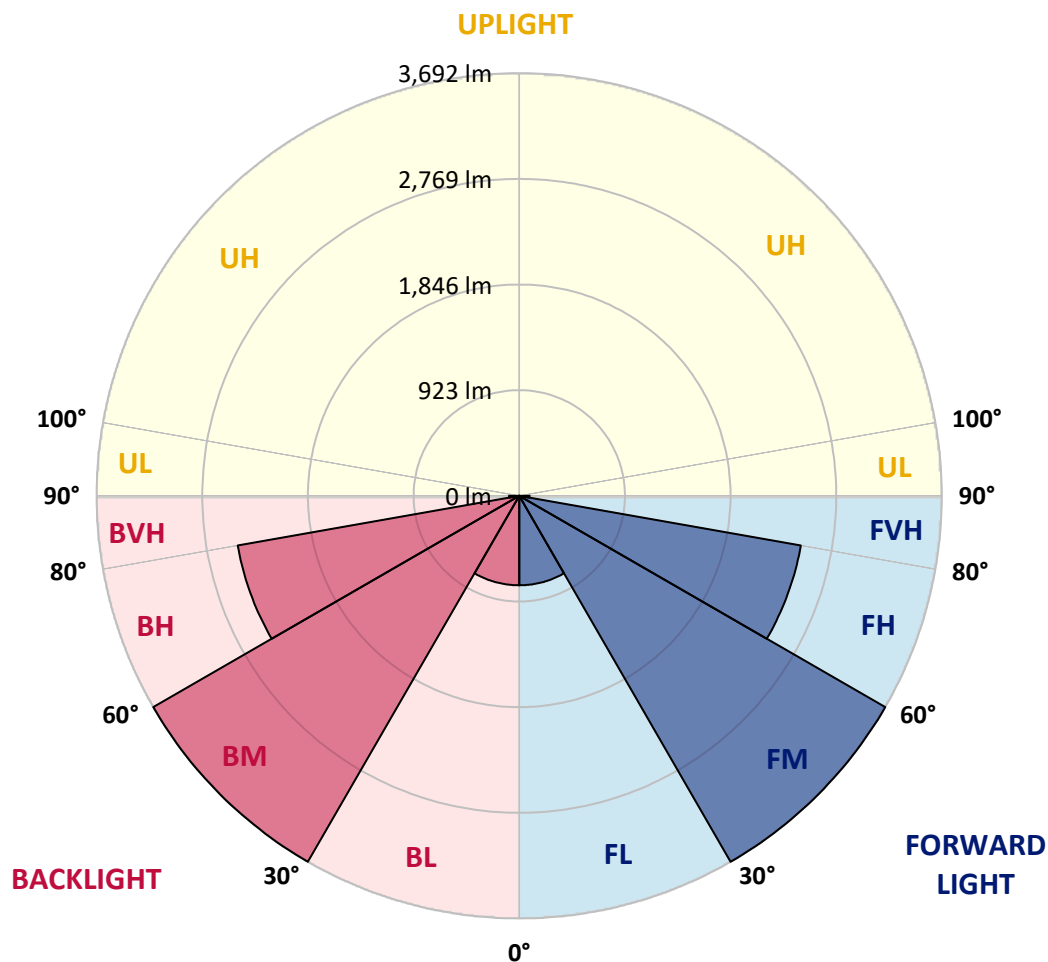
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	782.0	5.5			
FM	(30°-60°)	3692.5	26.1			
FH	(60°-80°)	2498.2	17.7			G2/5000
FVH	(80°-90°)	89.8	0.6			G1/100
BL	(0°-30°)	782.0	5.5	B2/1000		
BM	(30°-60°)	3692.5	26.1	B3/5000		
BH	(60°-80°)	2498.2	17.7	B3/2500		G3/2500
BVH	(80°-90°)	89.8	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1468.7	1468.7	1468.7	1468.7	1468.7	1468.7	1468.7	1468.7	1468.7	1468.7	1468.7
2.5°	1458.2	1458.7	1461.1	1463.9	1466.3	1472.5	1473.9	1476.2	1477.2	1479.6	1479.6
5°	1445.5	1446.4	1452.1	1459.7	1468.2	1483.3	1494.2	1506.6	1512.7	1519.3	1518.9
7.5°	1444.0	1446.4	1454.5	1466.8	1481.0	1506.1	1528.8	1553.4	1570.0	1585.2	1584.2
10°	1458.7	1462.5	1473.9	1492.3	1513.7	1544.9	1578.5	1611.7	1640.6	1663.8	1664.7
12.5°	1481.0	1485.7	1503.7	1531.7	1563.9	1604.1	1643.9	1681.3	1721.1	1755.7	1758.5
15°	1510.3	1516.5	1543.5	1585.2	1634.4	1682.3	1724.9	1763.3	1809.2	1857.0	1861.8
17.5°	1553.9	1562.4	1598.0	1654.3	1719.2	1771.8	1816.3	1845.2	1883.6	1932.8	1941.8
20°	1620.2	1631.1	1676.1	1743.4	1822.5	1877.4	1911.5	1917.7	1936.6	1980.6	1991.1
22.5°	1706.4	1715.9	1766.1	1846.1	1934.7	1994.4	2012.4	1987.7	1985.9	2021.4	2031.3
25°	1802.6	1811.1	1869.3	1959.3	2054.5	2120.4	2119.9	2072.0	2038.9	2066.4	2076.8
27.5°	1910.5	1923.8	1979.7	2074.4	2176.2	2241.1	2237.3	2163.5	2100.5	2107.6	2116.6
30°	2034.6	2049.3	2103.8	2199.9	2301.7	2365.2	2360.5	2262.9	2168.2	2149.2	2155.9
32.5°	2188.6	2206.1	2257.7	2352.4	2442.4	2499.7	2486.0	2370.9	2249.7	2208.4	2214.6
35°	2373.7	2384.2	2438.6	2531.9	2604.9	2644.2	2615.3	2495.9	2352.9	2303.2	2303.2
37.5°	2561.3	2569.3	2630.4	2720.9	2791.5	2812.3	2755.9	2632.8	2487.9	2417.3	2418.7
40°	2741.3	2763.0	2831.7	2924.5	2994.2	2999.9	2925.0	2789.1	2638.0	2565.1	2573.6
42.5°	2929.3	2950.6	3032.5	3137.7	3199.2	3208.7	3121.1	2964.3	2807.6	2748.4	2757.8
45°	3096.9	3114.0	3208.7	3330.9	3407.6	3432.3	3328.5	3165.1	2990.9	2933.1	2935.4
47.5°	3213.9	3236.2	3340.4	3484.4	3596.1	3634.0	3532.2	3360.7	3171.3	3101.2	3107.4
50°	3320.0	3331.9	3437.5	3594.7	3736.8	3814.9	3727.8	3554.0	3353.6	3279.3	3285.9
52.5°	3379.2	3394.4	3496.7	3660.5	3828.7	3954.7	3901.6	3727.8	3529.8	3457.4	3465.4
55°	3338.0	3349.4	3472.0	3675.2	3885.5	4040.8	4048.9	3897.8	3702.7	3639.2	3662.0
57.5°	3150.5	3164.7	3314.3	3580.5	3892.6	4099.1	4159.7	4055.5	3864.2	3812.6	3825.8
60°	2857.3	2866.3	3025.9	3325.2	3754.3	4123.3	4230.3	4184.4	4022.4	3970.8	3988.8
62.5°	2334.9	2348.2	2539.0	2940.2	3462.1	4051.7	4298.5	4290.9	4169.7	4122.3	4138.4
65°	1596.1	1619.3	1830.5	2337.7	3011.7	3832.9	4360.5	4415.0	4299.9	4240.2	4261.6
67.5°	963.8	980.8	1133.8	1543.5	2304.6	3391.5	4296.6	4556.1	4391.8	4295.7	4313.2
68°	861.5	877.1	1005.0	1392.9	2131.7	3267.0	4238.3	4572.2	4401.7	4294.7	4310.3
70°	520.5	530.9	616.6	861.0	1421.3	2591.6	3841.0	4559.0	4465.2	4308.0	4317.0
72.5°	339.1	342.4	356.6	441.9	726.0	1449.2	2882.9	4248.3	4560.4	4385.2	4383.7
75°	281.8	279.9	281.3	291.3	358.0	635.6	1684.6	3356.0	4347.3	4263.4	4233.6
77.5°	238.2	236.8	236.3	236.8	239.6	306.9	731.3	2090.5	3326.6	3771.4	3797.9
80°	192.8	190.9	197.0	194.2	185.7	190.9	306.4	869.5	1568.1	1687.0	1580.9
82.5°	140.2	133.1	159.6	152.0	144.9	134.5	169.1	280.9	374.2	256.7	180.4
85°	108.0	100.4	121.2	116.5	99.5	68.7	100.4	137.3	151.6	86.7	68.2
87.5°	44.0	46.4	87.6	69.1	58.3	33.2	41.2	54.9	73.9	36.9	28.4
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)