

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: P316071

Luminaire Tested: **GAN-SA7A-727-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29036 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

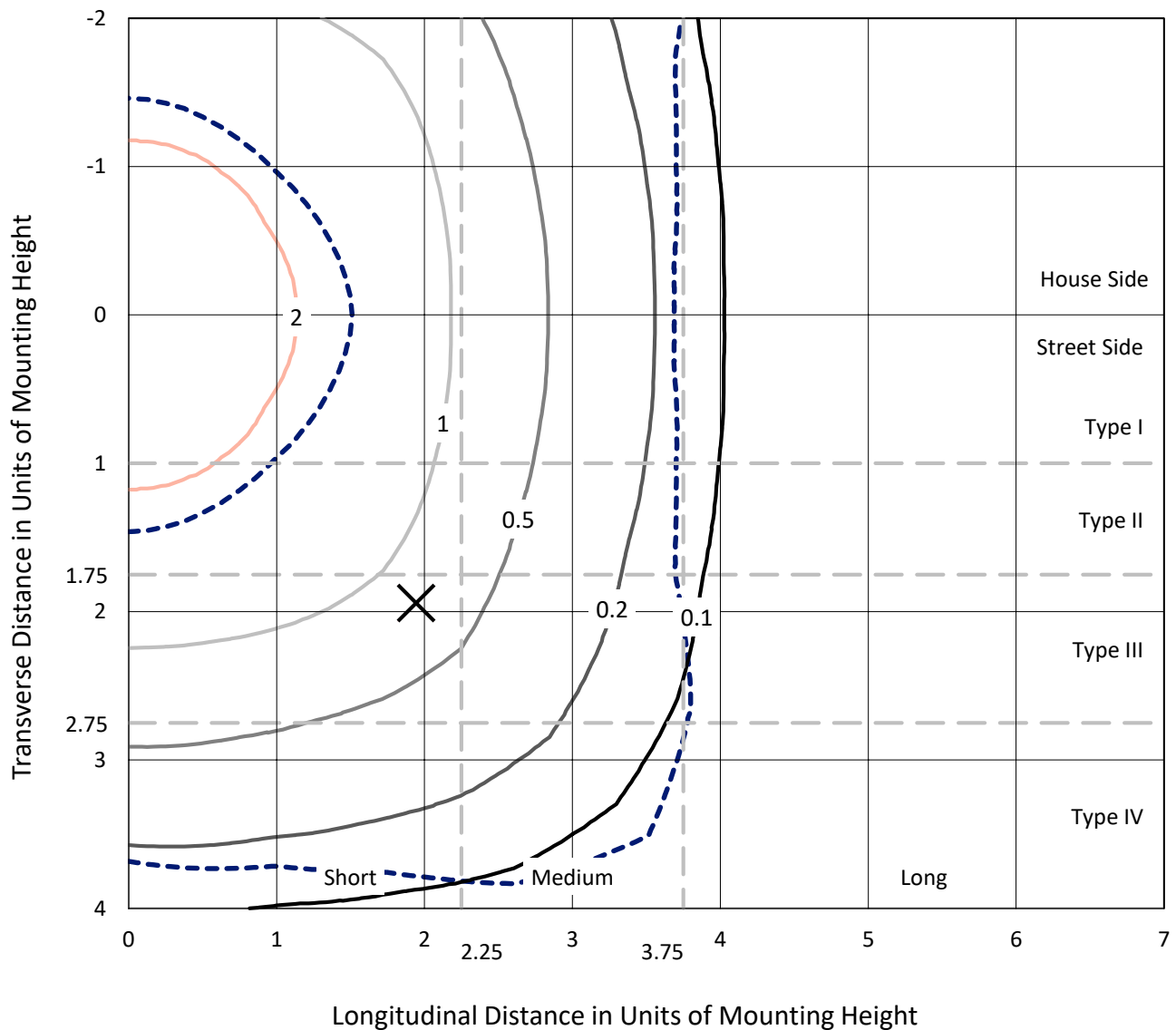
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

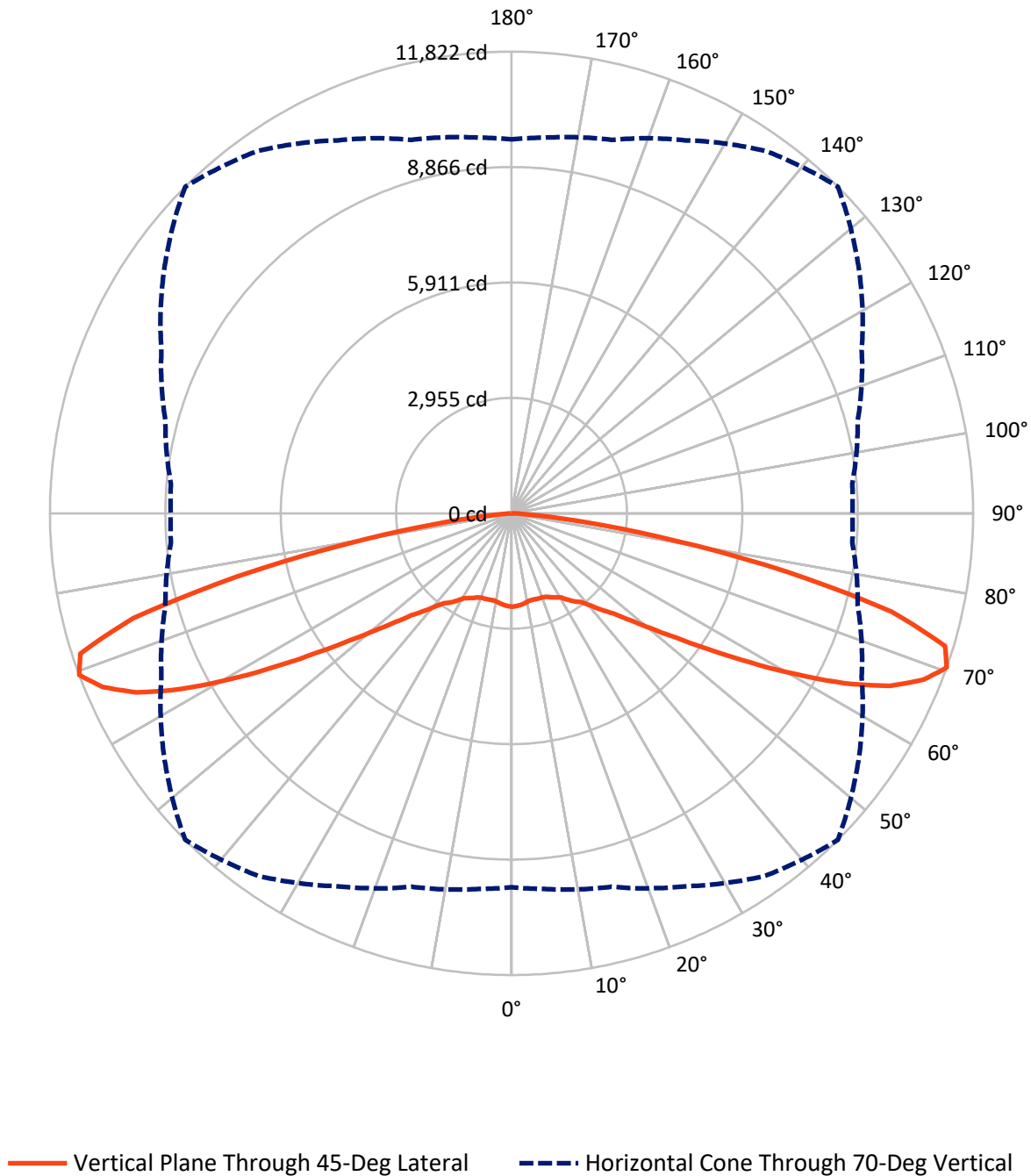
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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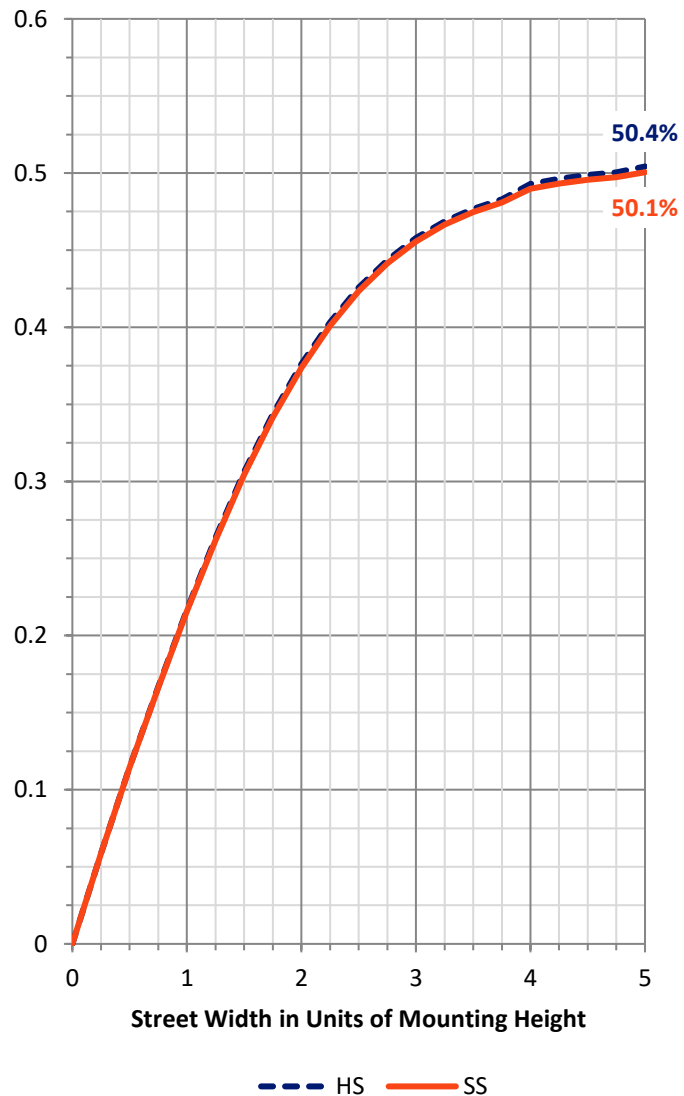
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14518.0	0.0	14518.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14518.0	0.0	14518.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29036.0	0.0	29036.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.0	0.8
10°-20°	651.5	2.2
20°-30°	1110.8	3.8
30°-40°	1735.6	6.0
40°-50°	2941.5	10.1
50°-60°	5364.0	18.5
60°-70°	9234.5	31.8
70°-80°	7238.4	24.9
80°-90°	536.7	1.8
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°	29036.0	100.0
0°-180°	29036.0	100.0

Coefficient of Utilization



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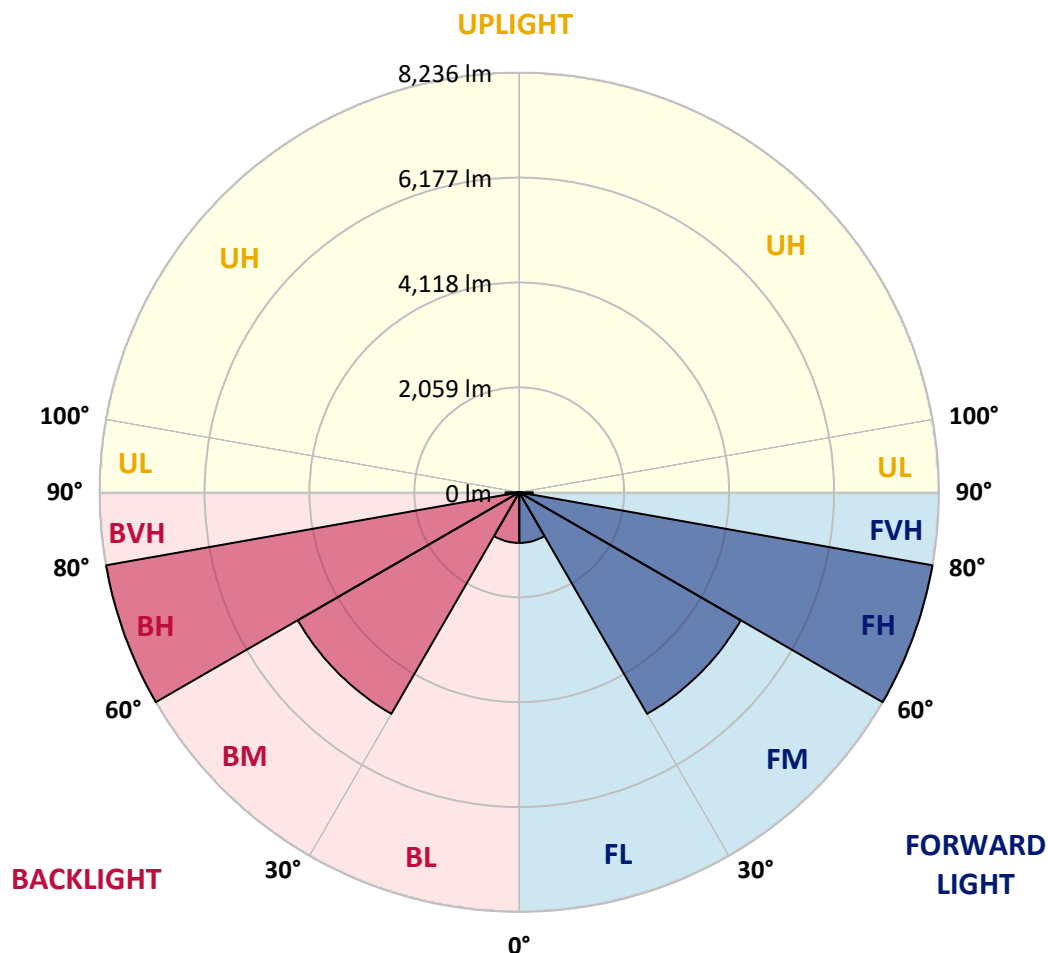
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	992.7	3.4			
FM	(30°-60°)	5020.6	17.3			
FH	(60°-80°)	8236.4	28.4			G4/12000
FVH	(80°-90°)	268.4	0.9			G3/500
BL	(0°-30°)	992.7	3.4	B2/1000		
BM	(30°-60°)	5020.6	17.3	B4/8500		
BH	(60°-80°)	8236.4	28.4	B5		G4/12000
BVH	(80°-90°)	268.4	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2389.7	2389.7	2389.7	2389.7	2389.7	2389.7	2389.7	2389.7	2389.7	2389.7	2389.7
2.5°	2379.1	2382.0	2379.1	2381.0	2376.2	2378.1	2378.1	2378.1	2377.2	2378.1	2376.2
5°	2358.0	2359.9	2356.1	2358.0	2355.1	2358.0	2358.9	2358.0	2356.1	2357.0	2353.2
7.5°	2326.3	2328.2	2325.3	2328.2	2324.4	2329.2	2328.2	2325.3	2322.4	2322.4	2318.6
10°	2309.0	2309.9	2302.3	2299.4	2290.7	2292.7	2295.5	2298.4	2301.3	2307.1	2306.1
12.5°	2309.9	2309.9	2298.4	2285.9	2273.4	2276.3	2281.1	2291.7	2303.2	2313.8	2314.7
15°	2319.6	2318.6	2301.3	2281.1	2272.5	2281.1	2284.0	2290.7	2309.0	2327.2	2328.2
17.5°	2326.3	2326.3	2299.4	2276.3	2275.4	2288.8	2287.9	2290.7	2310.9	2337.8	2338.8
20°	2338.8	2338.8	2304.2	2279.2	2279.2	2293.6	2294.6	2299.4	2319.6	2349.3	2354.1
22.5°	2366.6	2367.6	2331.1	2310.9	2312.8	2321.5	2324.4	2332.0	2350.3	2382.9	2388.7
25°	2406.0	2407.9	2370.5	2358.9	2365.7	2382.0	2380.1	2385.8	2406.0	2437.7	2443.5
27.5°	2460.7	2455.9	2421.4	2416.6	2423.3	2434.8	2433.8	2434.8	2451.1	2480.0	2486.7
30°	2531.8	2529.9	2504.9	2507.8	2504.9	2501.1	2502.0	2509.7	2518.4	2541.4	2548.1
32.5°	2601.0	2602.9	2587.5	2601.9	2623.1	2637.5	2615.4	2594.2	2584.6	2597.1	2602.9
35°	2725.8	2730.6	2706.6	2697.0	2725.8	2768.1	2705.7	2671.1	2690.3	2706.6	2711.4
37.5°	2938.1	2941.0	2900.6	2862.2	2841.1	2881.4	2819.0	2821.9	2889.1	2919.9	2918.9
40°	3180.1	3181.1	3154.2	3120.6	3084.1	3093.7	3068.7	3076.4	3120.6	3148.4	3156.1
42.5°	3468.3	3465.4	3423.1	3375.1	3364.6	3374.2	3331.9	3326.1	3377.0	3427.0	3427.9
45°	3841.9	3835.2	3780.4	3727.6	3676.7	3655.6	3645.0	3672.9	3743.0	3789.1	3790.0
47.5°	4244.3	4226.1	4197.3	4155.0	4110.8	4089.7	4072.4	4085.9	4136.8	4155.0	4156.9
50°	4658.3	4662.2	4667.9	4651.6	4635.3	4628.5	4583.4	4557.5	4572.8	4539.2	4534.4
52.5°	5149.1	5156.8	5212.5	5259.6	5287.4	5301.8	5216.4	5127.0	5077.1	5011.8	4992.6
55°	5728.3	5740.8	5822.4	5953.0	6087.5	6158.6	6003.9	5836.8	5682.2	5560.2	5520.8
57.5°	6373.7	6395.8	6508.2	6758.9	7034.5	7202.6	6941.4	6637.9	6339.1	6163.4	6132.6
60°	7130.6	7151.7	7307.3	7666.5	8113.1	8365.8	7970.0	7473.5	7101.8	6933.7	6877.0
62.5°	8031.5	8033.4	8224.6	8644.3	9234.0	9585.6	9049.6	8385.9	8002.7	7800.0	7745.3
65°	9000.6	9005.4	9203.3	9656.6	10266.5	10648.8	10043.7	9352.2	8883.5	8584.7	8542.5
67.5°	9685.5	9705.6	9914.0	10459.6	11030.1	11374.9	10748.7	9966.9	9425.2	9068.8	9033.3
70°	9576.0	9654.7	9899.6	10536.4	11329.8	11821.6	10863.0	9893.9	9179.3	8758.6	8728.8
72.5°	8351.3	8502.1	8828.7	9664.3	10933.1	11610.2	10239.6	8861.4	8052.6	7694.4	7640.6
75°	5687.0	5931.9	6424.6	7630.0	9340.6	10052.4	8620.3	7065.3	6304.6	5809.0	5772.5
77.5°	2535.7	2591.4	3215.7	4603.6	6445.8	7218.9	6263.3	4621.8	3469.2	2767.1	2619.2
80°	706.9	715.6	954.7	1714.5	3226.2	4241.5	3463.5	1800.9	1012.3	713.6	672.3
82.5°	224.8	244.0	297.7	444.7	1084.4	1935.4	1113.2	480.2	341.9	272.8	245.9
85°	109.5	108.5	150.8	180.6	276.6	428.4	294.9	222.8	195.0	129.7	117.2
87.5°	46.1	47.1	70.1	63.4	80.7	69.2	95.1	99.9	104.7	57.6	49.9
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)