

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: P316599

Luminaire Tested: **GAN-SA5B-827-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22057 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

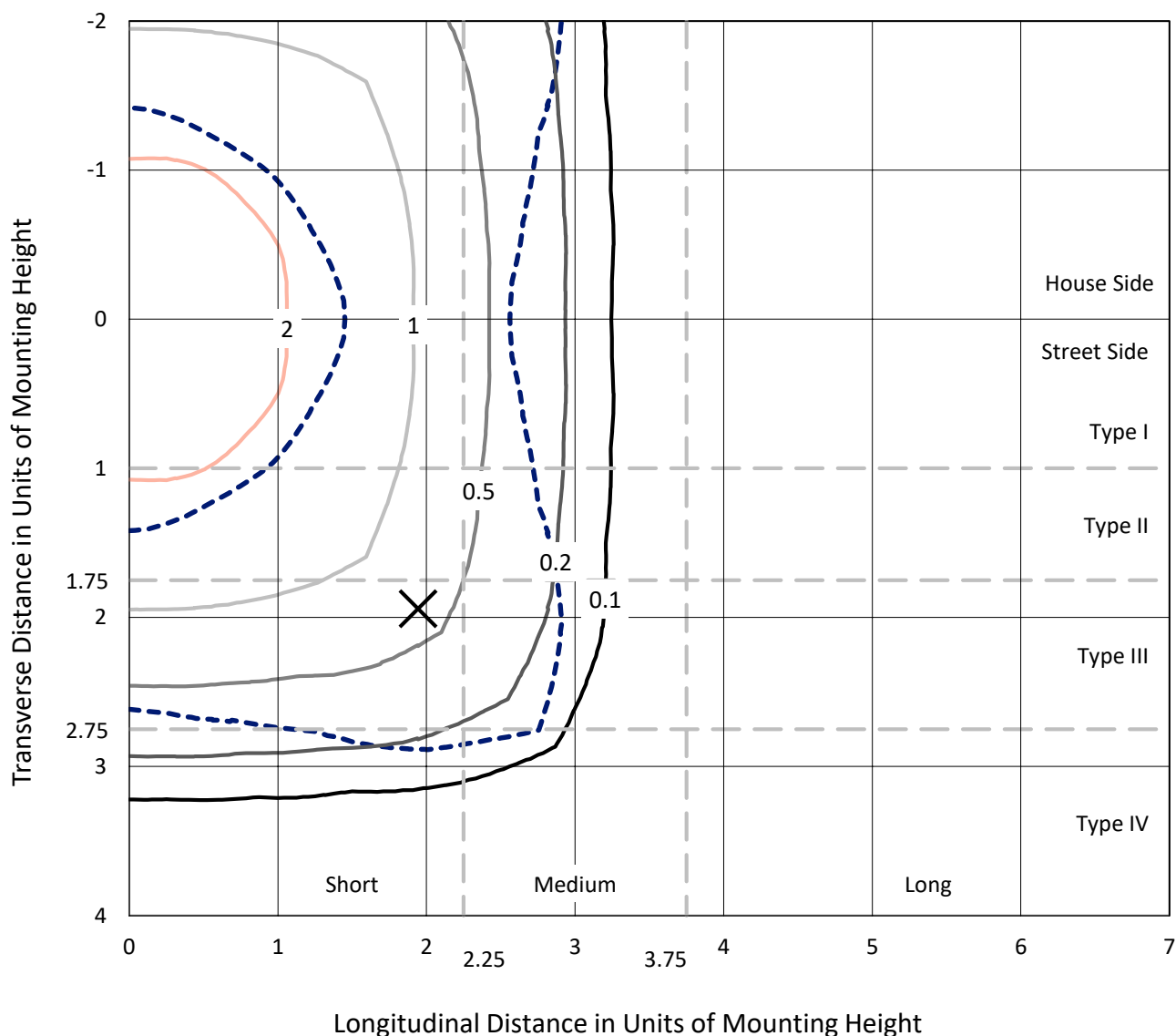
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

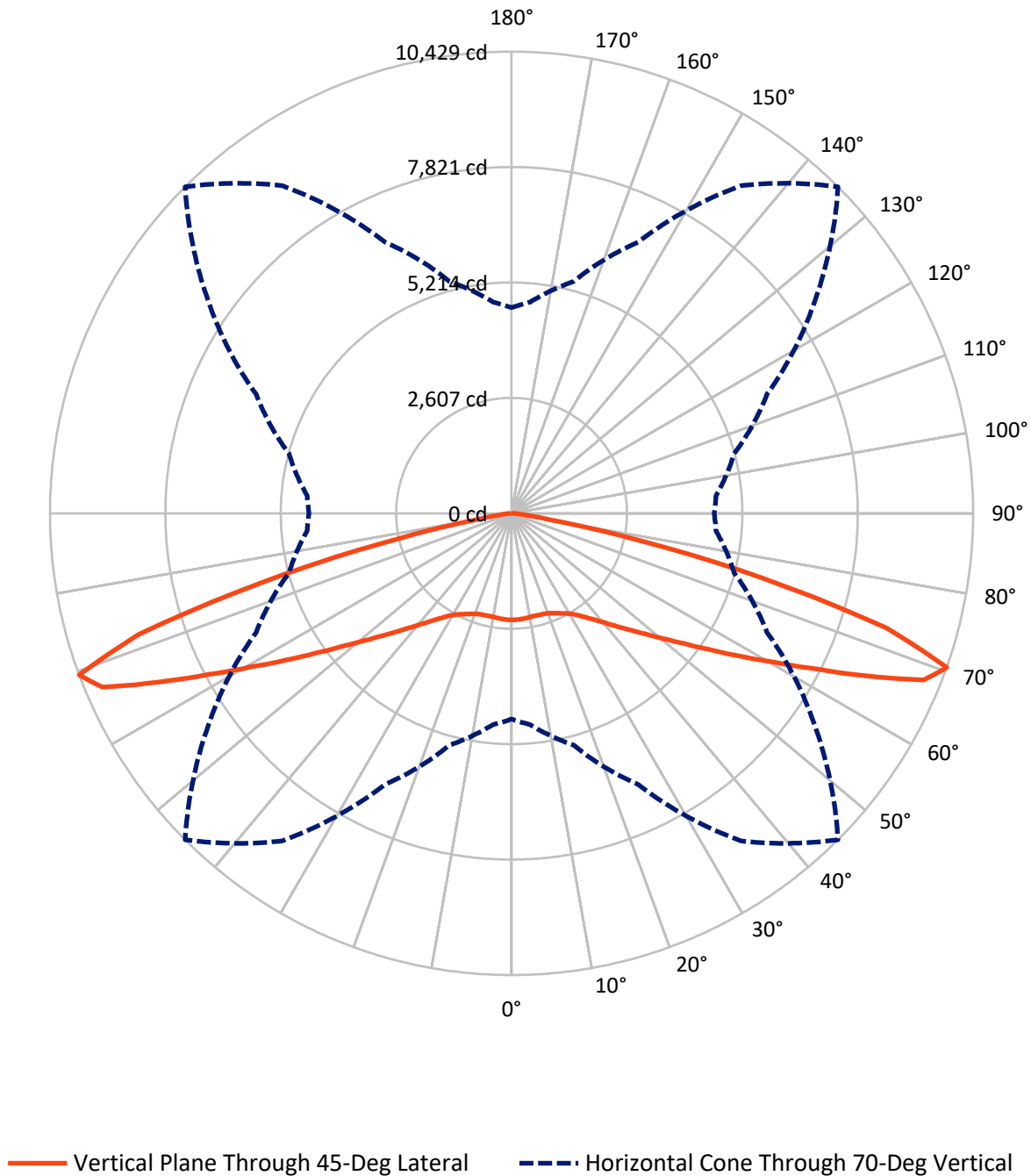
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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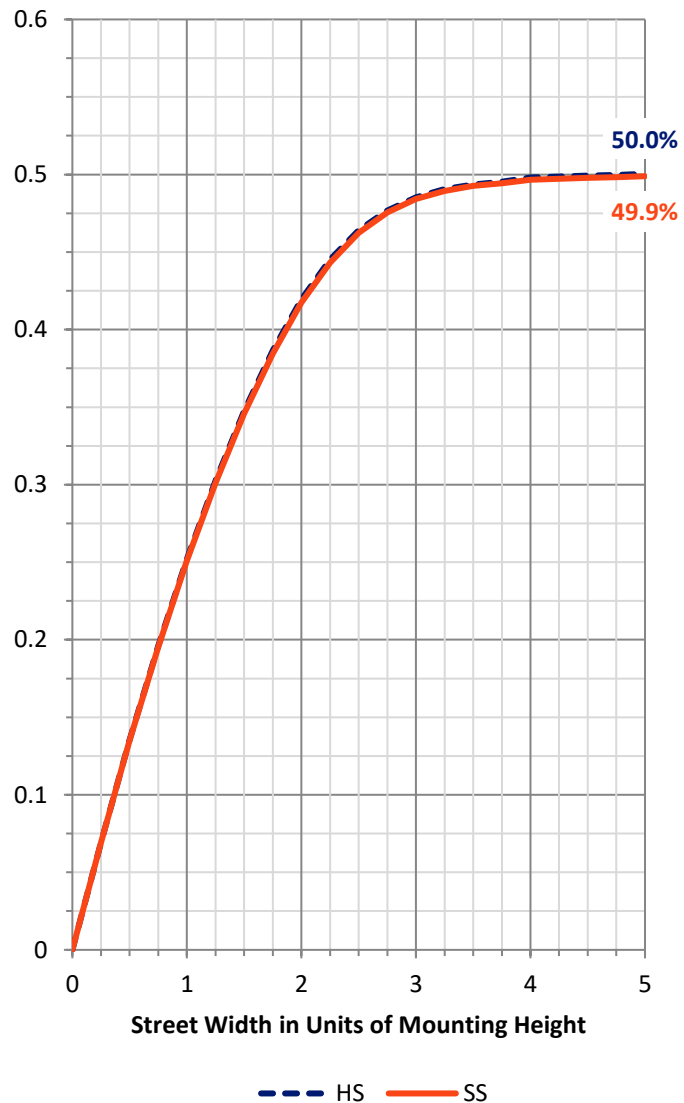
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11028.5	0.0	11028.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11028.5	0.0	11028.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22057.0	0.0	22057.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.2	1.0
10°-20°	669.8	3.0
20°-30°	1140.2	5.2
30°-40°	1808.4	8.2
40°-50°	2942.8	13.3
50°-60°	4852.1	22.0
60°-70°	7123.1	32.3
70°-80°	3149.8	14.3
80°-90°	142.6	0.6
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°	22057.0	100.0
0°-180°	22057.0	100.0

Coefficient of Utilization



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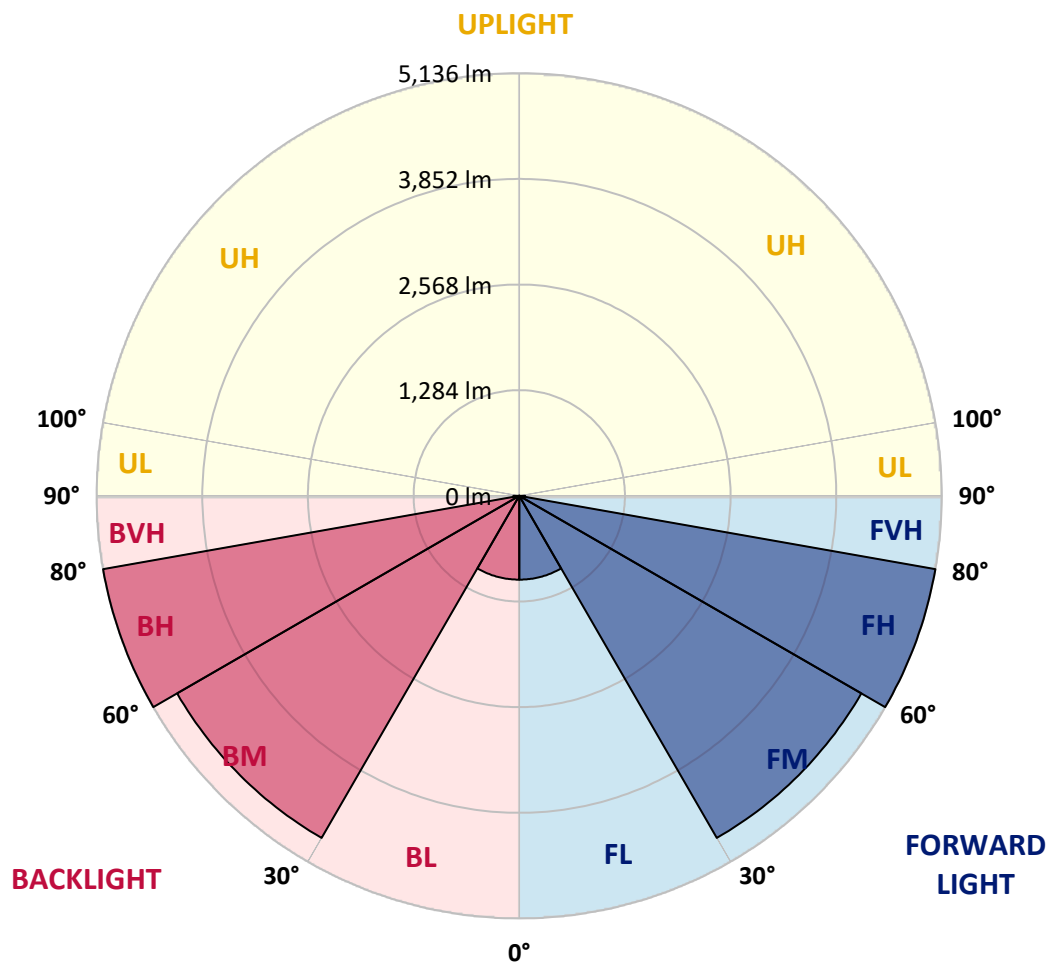
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1019.1	4.6			
FM	(30°-60°)	4801.6	21.8			
FH	(60°-80°)	5136.4	23.3			G3/7500
FVH	(80°-90°)	71.3	0.3			G1/100
BL	(0°-30°)	1019.1	4.6	B3/2500		
BM	(30°-60°)	4801.6	21.8	B3/5000		
BH	(60°-80°)	5136.4	23.3	B5		G3/7500
BVH	(80°-90°)	71.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0
2.5°	2405.3	2403.1	2408.2	2407.5	2403.1	2403.9	2403.9	2406.0	2406.0	2404.6	2404.6
5°	2396.6	2395.1	2400.9	2400.9	2396.6	2398.0	2399.5	2401.7	2400.9	2399.5	2398.7
7.5°	2385.6	2384.9	2390.7	2390.7	2387.8	2389.3	2387.8	2388.5	2387.1	2385.6	2383.4
10°	2367.4	2368.8	2373.9	2375.4	2375.4	2376.1	2374.7	2371.0	2368.8	2366.6	2364.4
12.5°	2350.6	2349.8	2357.1	2360.8	2366.6	2373.2	2368.8	2358.6	2354.2	2349.8	2348.4
15°	2339.6	2340.3	2347.6	2354.2	2364.4	2378.3	2373.2	2357.1	2348.4	2343.3	2341.8
17.5°	2337.4	2338.9	2348.4	2360.1	2371.0	2386.3	2383.4	2367.4	2352.8	2343.3	2341.1
20°	2342.5	2343.3	2357.9	2374.7	2393.6	2408.2	2401.7	2384.1	2364.4	2349.8	2346.2
22.5°	2352.0	2354.9	2373.2	2399.5	2428.7	2448.4	2440.4	2410.4	2379.8	2361.5	2356.4
25°	2382.0	2382.7	2407.5	2443.3	2478.3	2500.9	2491.5	2449.1	2409.7	2389.3	2382.7
27.5°	2444.0	2446.2	2471.0	2512.6	2542.6	2557.2	2551.3	2517.0	2483.4	2461.5	2463.7
30°	2533.8	2536.7	2564.5	2610.4	2628.7	2632.3	2630.9	2614.8	2584.2	2555.0	2557.2
32.5°	2643.3	2644.8	2682.0	2723.6	2738.2	2741.1	2738.2	2723.6	2687.1	2647.7	2649.9
35°	2784.2	2788.6	2824.3	2864.5	2876.2	2882.0	2876.9	2857.9	2820.0	2781.3	2779.8
37.5°	2957.9	2958.7	2995.9	3037.5	3052.1	3053.5	3047.7	3035.3	2987.8	2952.8	2950.6
40°	3159.4	3162.3	3206.1	3250.6	3256.5	3249.9	3257.9	3250.6	3201.7	3161.6	3168.2
42.5°	3404.7	3411.2	3463.8	3507.6	3490.8	3487.2	3492.3	3494.5	3455.0	3406.1	3401.8
45°	3690.1	3695.9	3761.6	3796.7	3785.7	3761.6	3771.9	3789.4	3734.6	3674.0	3679.9
47.5°	4015.7	4030.3	4100.4	4133.2	4106.2	4073.3	4093.1	4119.3	4055.1	3979.9	3976.3
50°	4377.8	4396.0	4489.4	4535.4	4508.4	4447.8	4480.7	4498.2	4405.5	4308.4	4300.4
52.5°	4763.9	4782.2	4899.7	4994.6	4977.1	4882.9	4928.9	4910.6	4804.1	4673.4	4663.2
55°	5201.2	5208.5	5335.5	5488.8	5506.3	5437.0	5434.0	5404.1	5246.4	5095.3	5088.0
57.5°	5650.9	5656.0	5820.2	6001.2	6083.7	6083.7	6002.0	5938.5	5729.0	5553.8	5535.5
60°	6136.3	6154.5	6336.3	6582.3	6775.0	6832.0	6687.4	6514.4	6286.7	6072.8	6051.6
62.5°	6568.5	6589.6	6867.7	7234.2	7543.7	7751.0	7397.7	7115.9	6701.3	6358.2	6318.1
65°	6623.2	6680.1	7085.3	7748.8	8441.6	8855.5	8178.1	7483.9	6728.3	6251.6	6210.8
67.5°	6048.7	6145.1	6692.6	7725.5	9157.0	10045.4	8676.7	7273.6	6243.6	5716.6	5671.3
70°	4647.8	4788.0	5419.4	6757.5	9033.6	10428.6	8364.2	6367.7	5205.6	4638.4	4574.8
72.5°	2549.9	2607.5	3175.5	4627.4	7242.2	8862.1	6976.5	4708.4	3452.1	2809.0	2702.4
75°	808.8	829.3	1118.3	1893.6	4096.7	5869.9	4431.8	2311.1	1272.4	938.0	927.1
77.5°	359.2	361.3	404.4	552.6	1411.1	2974.0	1695.0	629.3	433.6	378.9	391.3
80°	227.0	227.0	250.4	273.7	384.0	863.6	458.4	299.3	255.5	237.2	242.4
82.5°	108.8	120.4	162.8	175.2	211.0	290.5	235.1	195.6	170.8	127.0	118.3
85°	71.5	59.9	102.9	116.1	122.6	139.4	136.5	129.2	111.7	63.5	70.8
87.5°	32.1	30.7	53.3	48.9	46.0	35.0	52.6	65.0	62.8	31.4	31.4
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)