

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: P316657

Luminaire Tested: **GAN-SA3D-830-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316657
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-SA3D-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19775 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

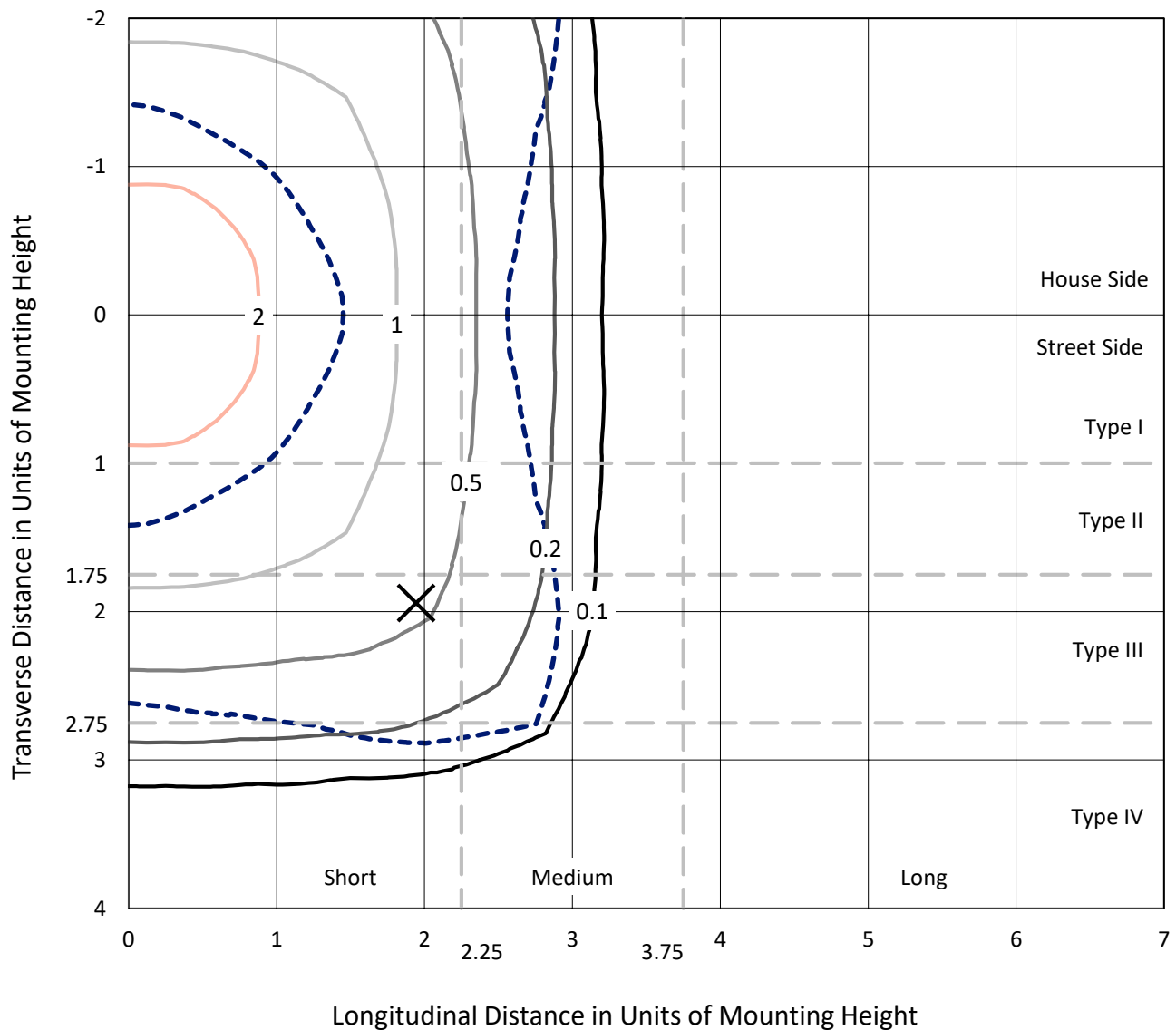
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P316657
 CATALOG NUMBER: GAN-SA3D-830-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

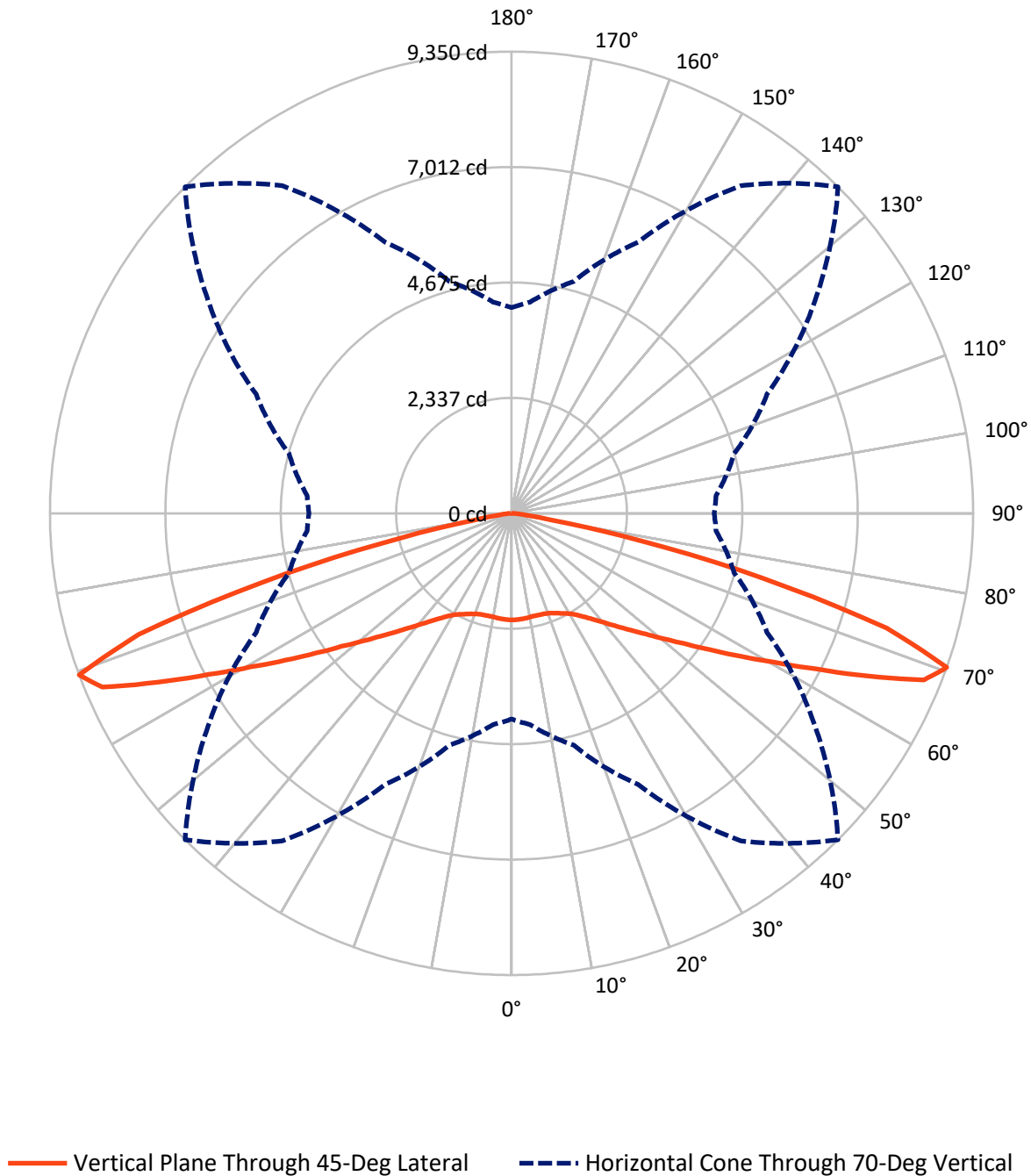
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

REPORT NUMBER: P316657
CATALOG NUMBER: GAN-SA3D-830-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P316657

CATALOG NUMBER: GAN-SA3D-830-U-5MQ

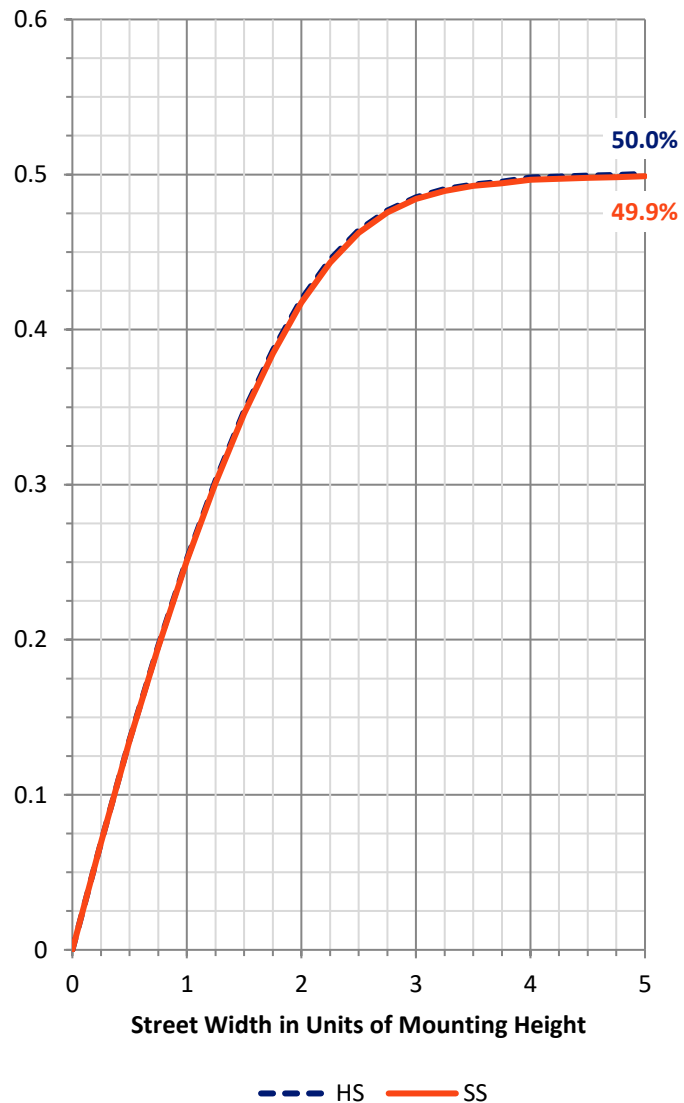
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9887.5	0.0	9887.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9887.5	0.0	9887.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19775.0	0.0	19775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.6	1.0
10°-20°	600.5	3.0
20°-30°	1022.3	5.2
30°-40°	1621.3	8.2
40°-50°	2638.3	13.3
50°-60°	4350.1	22.0
60°-70°	6386.1	32.3
70°-80°	2823.9	14.3
80°-90°	127.9	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°	19775.0	100.0
0°-180°	19775.0	100.0

Coefficient of Utilization



REPORT NUMBER: P316657

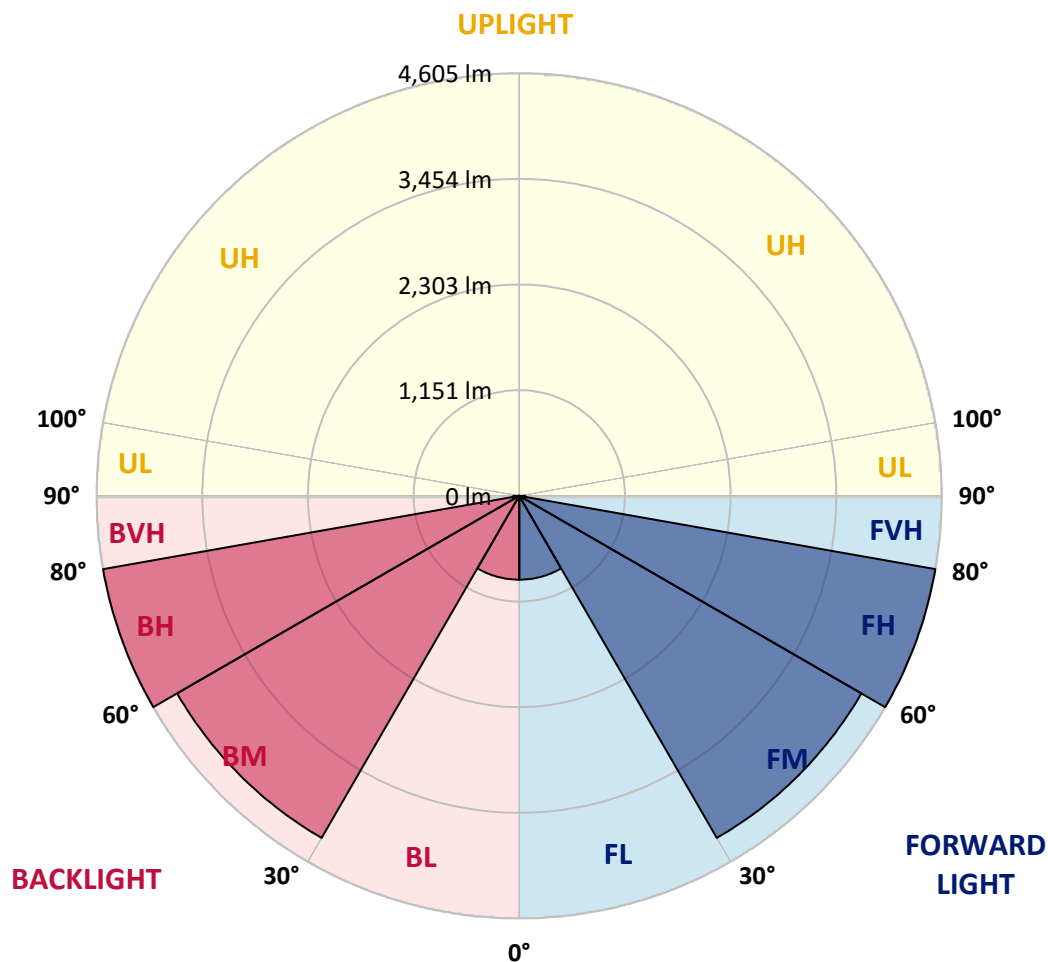
CATALOG NUMBER: GAN-SA3D-830-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	913.7	4.6			
FM	(30°-60°)	4304.9	21.8			
FH	(60°-80°)	4605.0	23.3			G2/5000
FVH	(80°-90°)	63.9	0.3			G1/100
BL	(0°-30°)	913.7	4.6	B2/1000		
BM	(30°-60°)	4304.9	21.8	B3/5000		
BH	(60°-80°)	4605.0	23.3	B4/5000		G2/5000
BVH	(80°-90°)	63.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P316657

CATALOG NUMBER: GAN-SA3D-830-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2159.7	2159.7	2159.7	2159.7	2159.7	2159.7	2159.7	2159.7	2159.7	2159.7	2159.7
2.5°	2156.5	2154.5	2159.1	2158.4	2154.5	2155.2	2155.2	2157.1	2157.1	2155.8	2155.8
5°	2148.6	2147.3	2152.5	2152.5	2148.6	2149.9	2151.2	2153.2	2152.5	2151.2	2150.6
7.5°	2138.8	2138.1	2143.4	2143.4	2140.8	2142.1	2140.8	2141.4	2140.1	2138.8	2136.8
10°	2122.4	2123.7	2128.3	2129.6	2129.6	2130.3	2129.0	2125.7	2123.7	2121.8	2119.8
12.5°	2107.4	2106.7	2113.3	2116.5	2121.8	2127.7	2123.7	2114.6	2110.7	2106.7	2105.4
15°	2097.6	2098.2	2104.8	2110.7	2119.8	2132.3	2127.7	2113.3	2105.4	2100.8	2099.5
17.5°	2095.6	2096.9	2105.4	2115.9	2125.7	2139.4	2136.8	2122.4	2109.3	2100.8	2098.9
20°	2100.2	2100.8	2113.9	2129.0	2146.0	2159.1	2153.2	2137.5	2119.8	2106.7	2103.5
22.5°	2108.7	2111.3	2127.7	2151.2	2177.4	2195.1	2187.9	2161.0	2133.6	2117.2	2112.6
25°	2135.5	2136.2	2158.4	2190.5	2221.9	2242.2	2233.7	2195.7	2160.4	2142.1	2136.2
27.5°	2191.2	2193.1	2215.4	2252.7	2279.5	2292.6	2287.4	2256.6	2226.5	2206.9	2208.8
30°	2271.7	2274.3	2299.1	2340.4	2356.7	2360.0	2358.7	2344.3	2316.8	2290.6	2292.6
32.5°	2369.8	2371.1	2404.5	2441.8	2454.9	2457.5	2454.9	2441.8	2409.1	2373.7	2375.7
35°	2496.1	2500.1	2532.1	2568.1	2578.6	2583.8	2579.3	2562.2	2528.2	2493.5	2492.2
37.5°	2651.9	2652.6	2685.9	2723.2	2736.3	2737.6	2732.4	2721.3	2678.7	2647.3	2645.4
40°	2832.5	2835.1	2874.4	2914.3	2919.6	2913.7	2920.9	2914.3	2870.5	2834.5	2840.4
42.5°	3052.4	3058.3	3105.4	3144.7	3129.7	3126.4	3131.0	3132.9	3097.6	3053.7	3049.8
45°	3308.3	3313.6	3372.5	3403.9	3394.1	3372.5	3381.6	3397.3	3348.2	3293.9	3299.2
47.5°	3600.2	3613.3	3676.1	3705.6	3681.4	3651.9	3669.6	3693.2	3635.6	3568.1	3564.9
50°	3924.8	3941.2	4025.0	4066.2	4042.0	3987.7	4017.1	4032.8	3949.7	3862.7	3855.5
52.5°	4271.0	4287.4	4392.8	4477.9	4462.1	4377.7	4419.0	4402.6	4307.0	4189.9	4180.7
55°	4663.1	4669.6	4783.5	4920.9	4936.6	4874.5	4871.8	4845.0	4703.6	4568.2	4561.6
57.5°	5066.2	5070.8	5218.1	5380.4	5454.3	5454.3	5381.0	5324.1	5136.2	4979.2	4962.8
60°	5501.4	5517.8	5680.8	5901.3	6074.1	6125.1	5995.6	5840.5	5636.3	5444.5	5425.5
62.5°	5888.9	5907.9	6157.2	6485.8	6763.3	6949.1	6632.4	6379.7	6008.0	5700.4	5664.4
65°	5938.0	5989.0	6352.2	6947.2	7568.2	7939.3	7332.0	6709.6	6032.2	5604.8	5568.2
67.5°	5422.9	5509.3	6000.1	6926.2	8209.6	9006.1	7779.0	6521.1	5597.6	5125.1	5084.5
70°	4167.0	4292.6	4858.8	6058.4	8099.0	9349.7	7498.9	5708.9	4667.0	4158.5	4101.5
72.5°	2286.0	2337.8	2846.9	4148.7	6493.0	7945.2	6254.7	4221.3	3095.0	2518.4	2422.8
75°	725.1	743.5	1002.6	1697.7	3672.9	5262.6	3973.3	2072.0	1140.7	841.0	831.2
77.5°	322.0	324.0	362.6	495.4	1265.1	2666.3	1519.7	564.1	388.8	339.7	350.8
80°	203.5	203.5	224.5	245.4	344.2	774.2	411.0	268.3	229.1	212.7	217.3
82.5°	97.5	108.0	145.9	157.1	189.1	260.5	210.7	175.4	153.1	113.9	106.0
85°	64.1	53.7	92.3	104.1	110.0	125.0	122.4	115.8	100.1	56.9	63.5
87.5°	28.8	27.5	47.8	43.8	41.2	31.4	47.1	58.2	56.3	28.1	28.1
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)