

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: P316638

Luminaire Tested: **GAN-SA4B-830-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316638
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-SA4B-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 19244 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

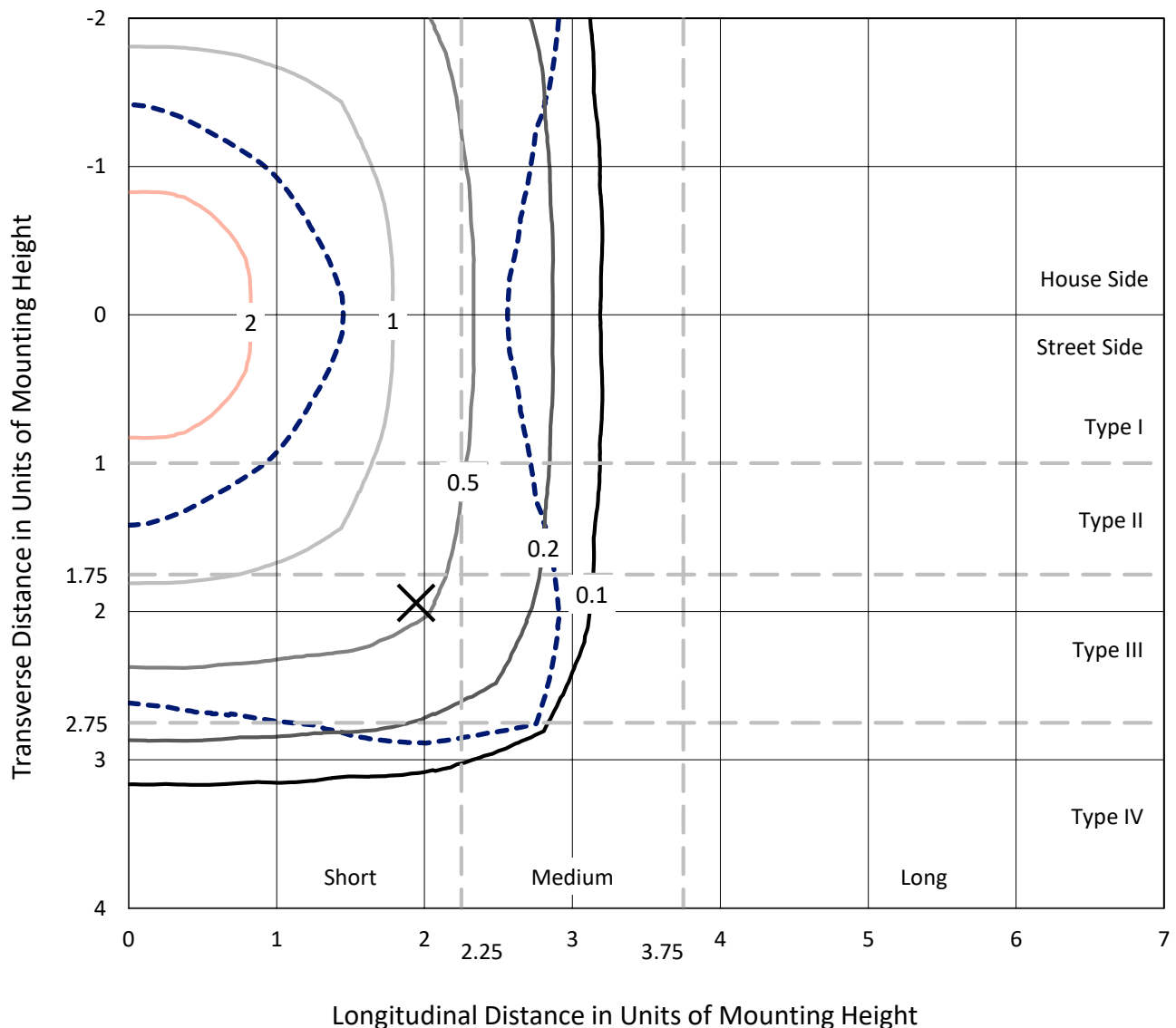
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P316638
 CATALOG NUMBER: GAN-SA4B-830-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

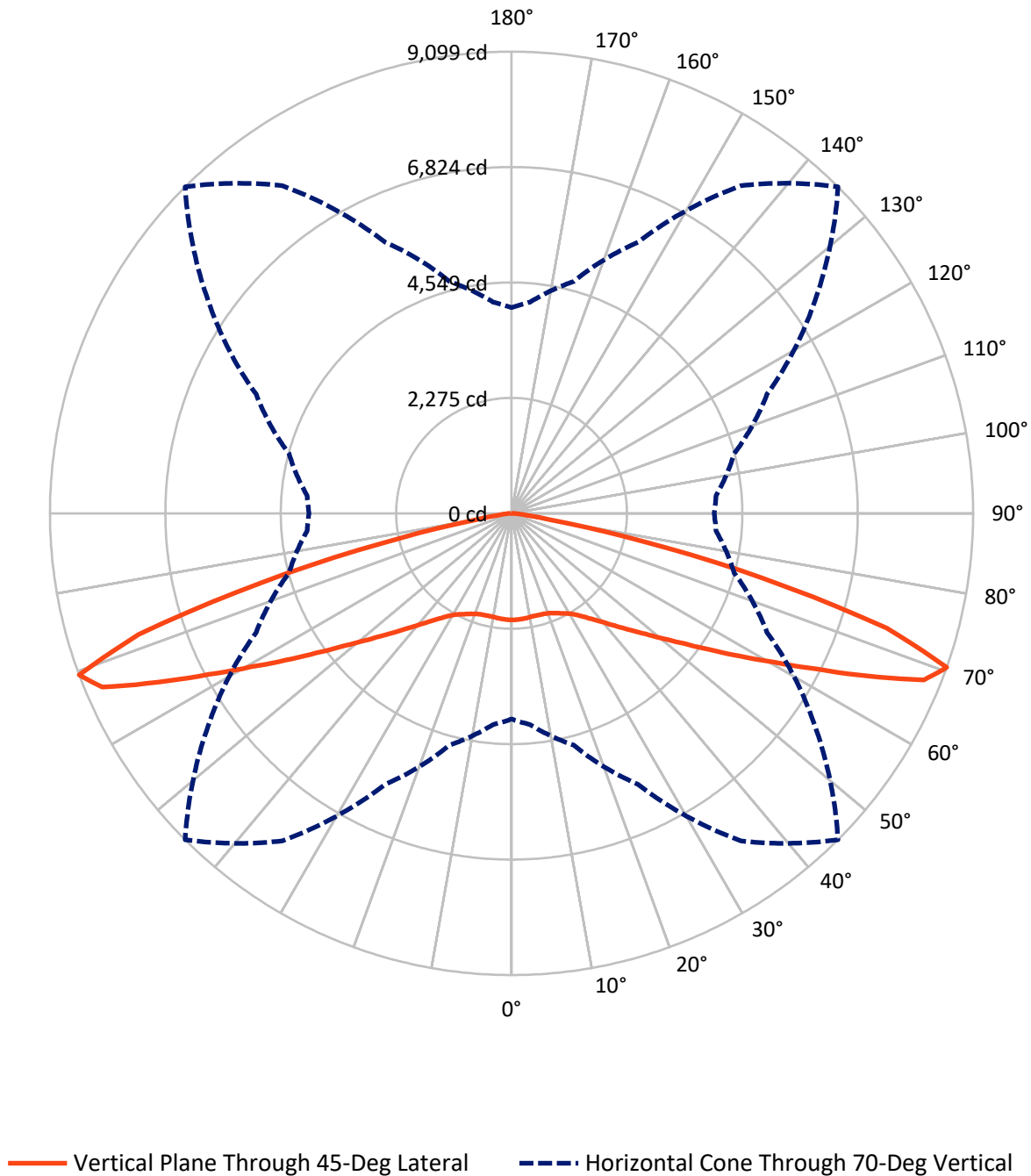
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - N/A

REPORT NUMBER: P316638
CATALOG NUMBER: GAN-SA4B-830-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P316638

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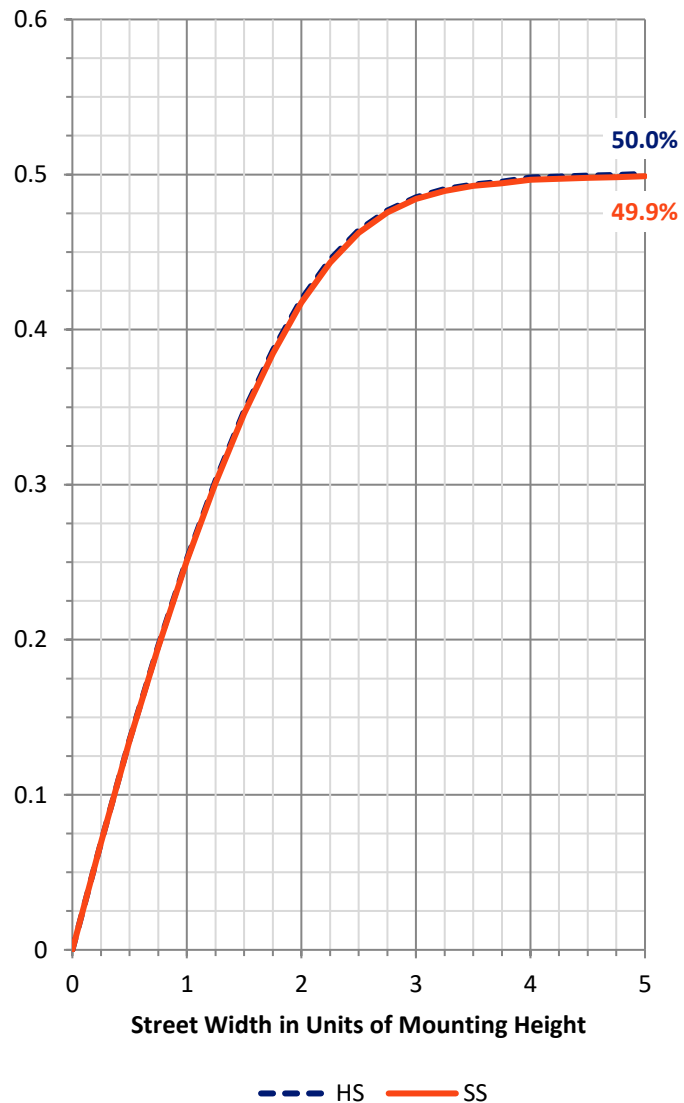
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9622.0	0.0	9622.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9622.0	0.0	9622.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19244.0	0.0	19244.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.1	1.0
10°-20°	584.4	3.0
20°-30°	994.8	5.2
30°-40°	1577.7	8.2
40°-50°	2567.5	13.3
50°-60°	4233.3	22.0
60°-70°	6214.6	32.3
70°-80°	2748.1	14.3
80°-90°	124.4	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°	19244.0	100.0
0°-180°	19244.0	100.0

Coefficient of Utilization



REPORT NUMBER: P316638

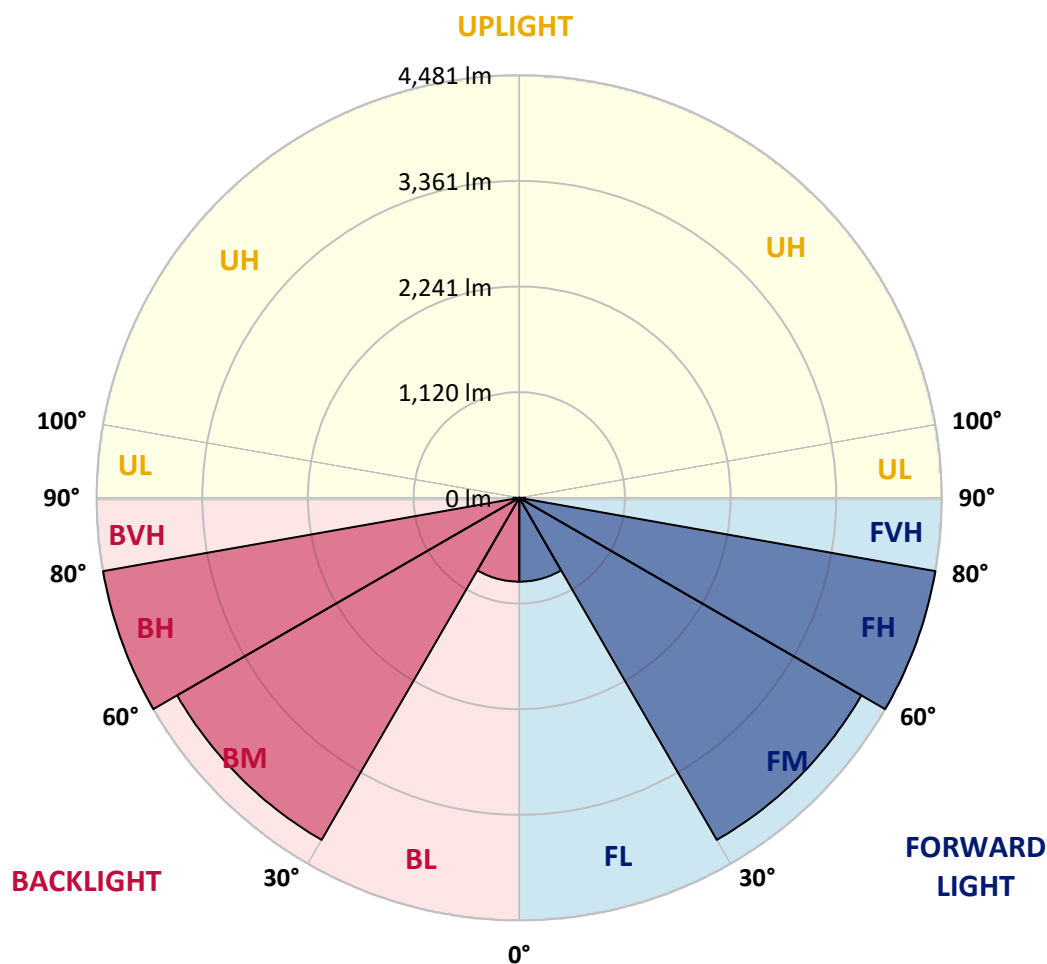
CATALOG NUMBER: GAN-SA4B-830-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	889.1	4.6			
FM	(30°-60°)	4189.3	21.8			
FH	(60°-80°)	4481.4	23.3			G2/5000
FVH	(80°-90°)	62.2	0.3			G1/100
BL	(0°-30°)	889.1	4.6	B2/1000		
BM	(30°-60°)	4189.3	21.8	B3/5000		
BH	(60°-80°)	4481.4	23.3	B4/5000		G2/5000
BVH	(80°-90°)	62.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7
2.5°	2098.6	2096.6	2101.1	2100.5	2096.6	2097.3	2097.3	2099.2	2099.2	2097.9	2097.9
5°	2090.9	2089.6	2094.7	2094.7	2090.9	2092.2	2093.5	2095.4	2094.7	2093.5	2092.8
7.5°	2081.4	2080.7	2085.8	2085.8	2083.3	2084.5	2083.3	2083.9	2082.6	2081.4	2079.5
10°	2065.4	2066.7	2071.2	2072.4	2072.4	2073.1	2071.8	2068.6	2066.7	2064.8	2062.9
12.5°	2050.8	2050.2	2056.5	2059.7	2064.8	2070.5	2066.7	2057.8	2054.0	2050.2	2048.9
15°	2041.2	2041.9	2048.2	2054.0	2062.9	2075.0	2070.5	2056.5	2048.9	2044.4	2043.2
17.5°	2039.3	2040.6	2048.9	2059.1	2068.6	2082.0	2079.5	2065.4	2052.7	2044.4	2042.5
20°	2043.8	2044.4	2057.2	2071.8	2088.4	2101.1	2095.4	2080.1	2062.9	2050.2	2047.0
22.5°	2052.1	2054.6	2070.5	2093.5	2118.9	2136.1	2129.1	2103.0	2076.3	2060.3	2055.9
25°	2078.2	2078.8	2100.5	2131.7	2162.2	2182.0	2173.7	2136.8	2102.4	2084.5	2078.8
27.5°	2132.3	2134.2	2155.9	2192.2	2218.3	2231.0	2225.9	2196.0	2166.7	2147.6	2149.5
30°	2210.7	2213.2	2237.4	2277.5	2293.4	2296.6	2295.4	2281.3	2254.6	2229.1	2231.0
32.5°	2306.2	2307.5	2339.9	2376.2	2389.0	2391.5	2389.0	2376.2	2344.4	2310.0	2311.9
35°	2429.1	2432.9	2464.1	2499.2	2509.4	2514.5	2510.0	2493.4	2460.3	2426.6	2425.3
37.5°	2580.7	2581.3	2613.8	2650.1	2662.8	2664.1	2659.0	2648.2	2606.8	2576.2	2574.3
40°	2756.5	2759.0	2797.2	2836.1	2841.2	2835.4	2842.4	2836.1	2793.4	2758.4	2764.1
42.5°	2970.5	2976.2	3022.1	3060.3	3045.6	3042.4	3046.9	3048.8	3014.4	2971.7	2967.9
45°	3219.5	3224.6	3281.9	3312.5	3302.9	3281.9	3290.8	3306.1	3258.3	3205.5	3210.6
47.5°	3503.5	3516.3	3577.4	3606.1	3582.5	3553.9	3571.1	3594.0	3537.9	3472.3	3469.2
50°	3819.4	3835.4	3916.9	3957.0	3933.4	3880.6	3909.2	3924.5	3843.6	3758.9	3751.9
52.5°	4156.4	4172.3	4274.8	4357.6	4342.3	4260.2	4300.3	4284.4	4191.4	4077.4	4068.5
55°	4537.9	4544.2	4655.0	4788.8	4804.1	4743.6	4741.0	4714.9	4577.3	4445.5	4439.1
57.5°	4930.2	4934.6	5077.9	5235.9	5307.9	5307.9	5236.5	5181.1	4998.3	4845.5	4829.6
60°	5353.7	5369.6	5528.2	5742.9	5911.0	5960.7	5834.6	5683.6	5484.9	5298.3	5279.8
62.5°	5730.8	5749.2	5991.9	6311.6	6581.6	6762.5	6454.3	6208.4	5846.7	5547.3	5512.3
65°	5778.5	5828.2	6181.7	6760.6	7365.0	7726.1	7135.1	6529.4	5870.2	5454.3	5418.7
67.5°	5277.3	5361.4	5839.0	6740.2	7989.2	8764.3	7570.1	6346.0	5447.3	4987.5	4948.0
70°	4055.1	4177.4	4728.3	5895.7	7881.5	9098.6	7297.5	5555.6	4541.7	4046.8	3991.4
72.5°	2224.7	2275.0	2770.5	4037.3	6318.6	7731.9	6086.8	4108.0	3011.9	2450.8	2357.8
75°	705.7	723.5	975.7	1652.1	3574.2	5121.3	3866.6	2016.4	1110.1	818.4	808.9
77.5°	313.4	315.3	352.8	482.1	1231.1	2594.7	1478.9	549.0	378.3	330.5	341.4
80°	198.1	198.1	218.5	238.8	335.0	753.4	400.0	261.1	222.9	207.0	211.4
82.5°	94.9	105.1	142.0	152.9	184.1	253.5	205.1	170.7	149.0	110.8	103.2
85°	62.4	52.2	89.8	101.3	107.0	121.6	119.1	112.7	97.4	55.4	61.8
87.5°	28.0	26.7	46.5	42.7	40.1	30.6	45.9	56.7	54.8	27.4	27.4
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)