

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: P316548

Luminaire Tested: **GAN-SA4A-760-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316548
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-SA4A-760-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19748 lumens
Efficiency: N/A
Efficacy: 153.1 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): 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

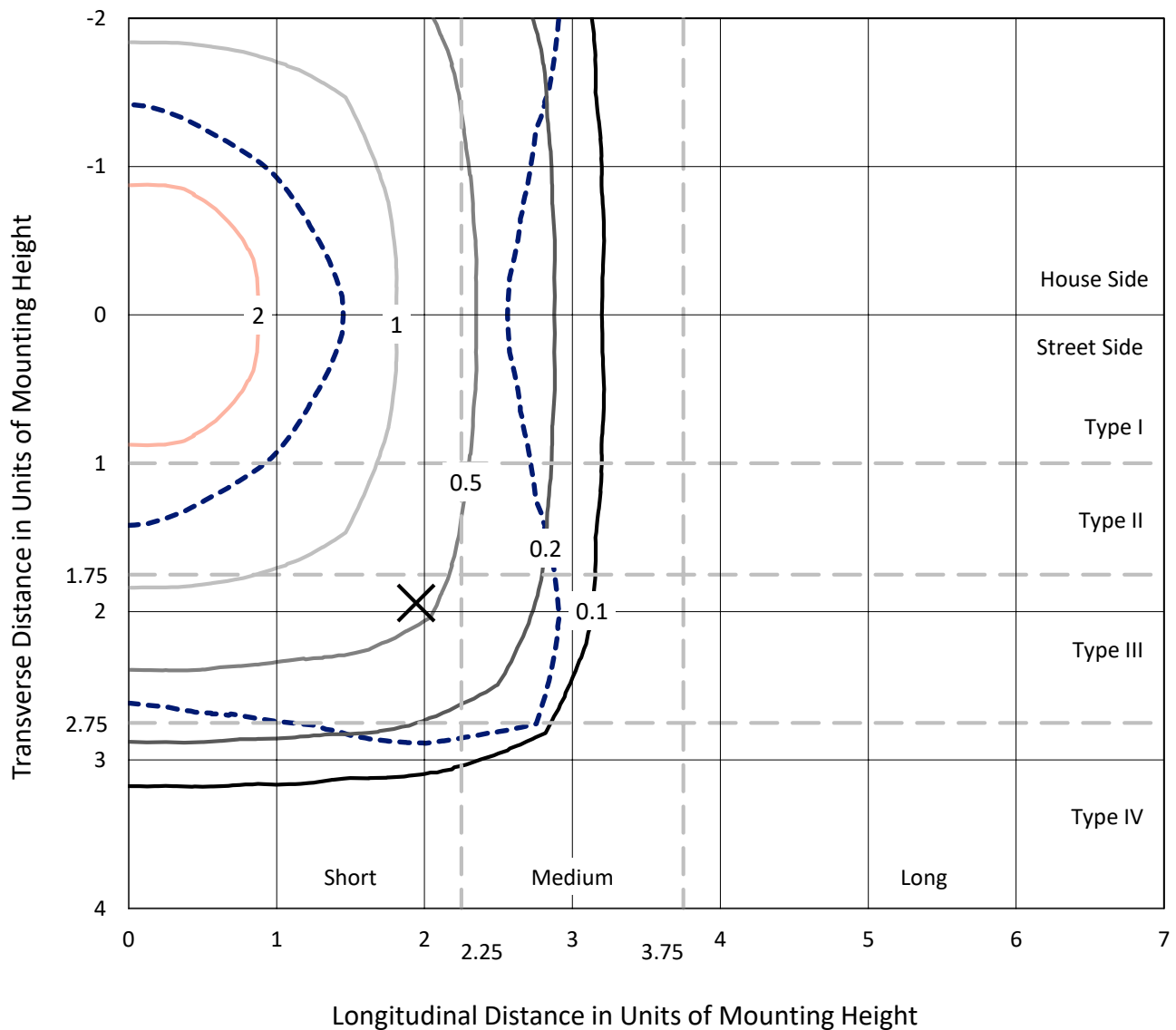


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Iso-Footcandle Lines of Horizontal Illumination

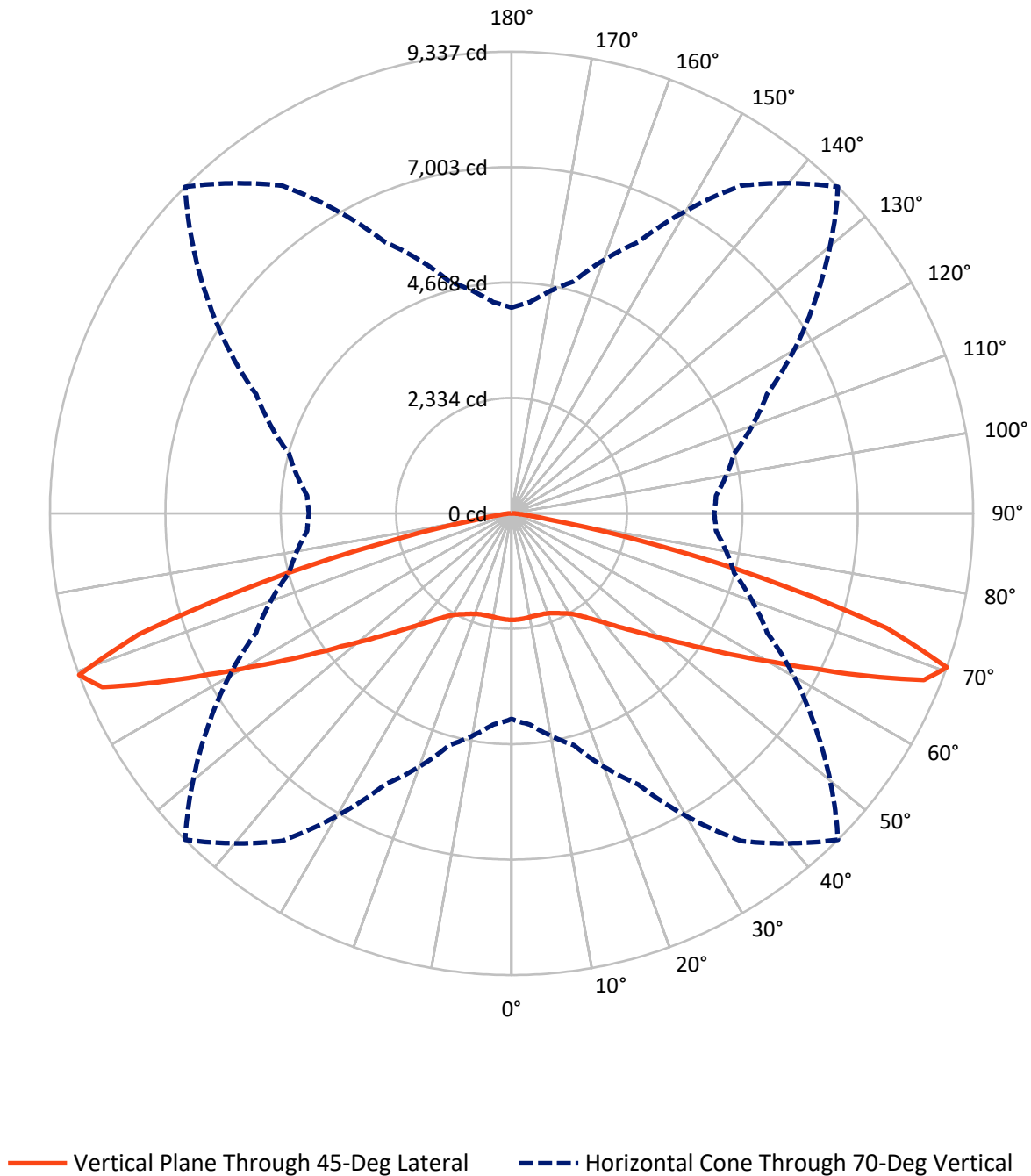
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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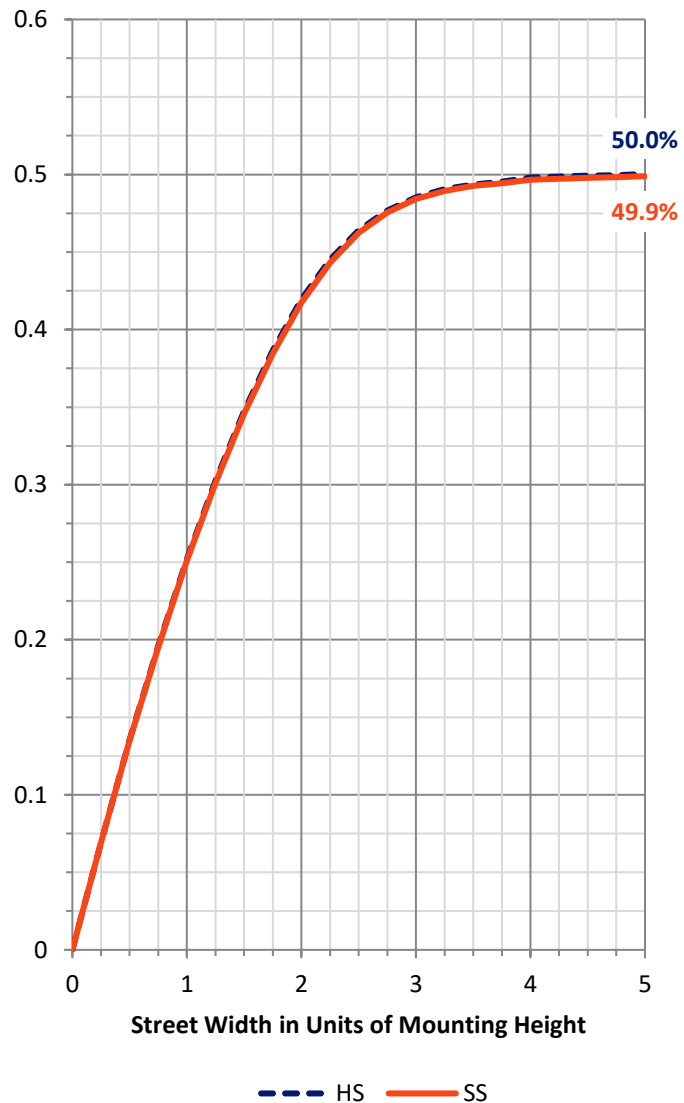
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9874.0	0.0	9874.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9874.0	0.0	9874.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19748.0	0.0	19748.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.3	1.0
10°-20°	599.7	3.0
20°-30°	1020.9	5.2
30°-40°	1619.1	8.2
40°-50°	2634.7	13.3
50°-60°	4344.2	22.0
60°-70°	6377.4	32.3
70°-80°	2820.1	14.3
80°-90°	127.7	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°	19748.0	100.0
0°-180°	19748.0	100.0

Coefficient of Utilization



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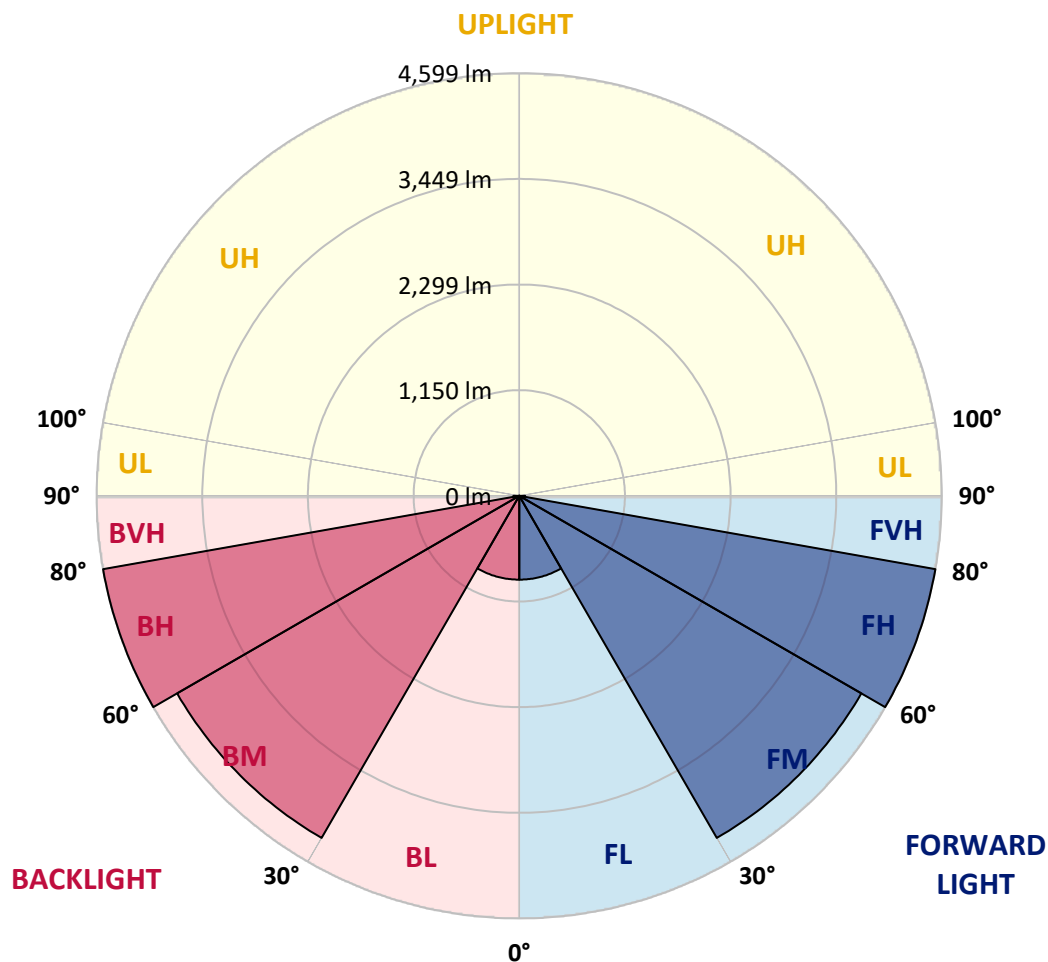
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	912.4	4.6			
FM	(30°-60°)	4299.0	21.8			
FH	(60°-80°)	4598.7	23.3			G2/5000
FVH	(80°-90°)	63.9	0.3			G1/100
BL	(0°-30°)	912.4	4.6	B2/1000		
BM	(30°-60°)	4299.0	21.8	B3/5000		
BH	(60°-80°)	4598.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2156.8	2156.8	2156.8	2156.8	2156.8	2156.8	2156.8	2156.8	2156.8	2156.8	2156.8
2.5°	2153.5	2151.6	2156.1	2155.5	2151.6	2152.2	2152.2	2154.2	2154.2	2152.9	2152.9
5°	2145.7	2144.4	2149.6	2149.6	2145.7	2147.0	2148.3	2150.3	2149.6	2148.3	2147.6
7.5°	2135.9	2135.2	2140.4	2140.4	2137.8	2139.1	2137.8	2138.5	2137.2	2135.9	2133.9
10°	2119.5	2120.8	2125.4	2126.7	2126.7	2127.4	2126.1	2122.8	2120.8	2118.9	2116.9
12.5°	2104.5	2103.8	2110.4	2113.7	2118.9	2124.8	2120.8	2111.7	2107.8	2103.8	2102.5
15°	2094.7	2095.4	2101.9	2107.8	2116.9	2129.3	2124.8	2110.4	2102.5	2098.0	2096.7
17.5°	2092.7	2094.0	2102.5	2113.0	2122.8	2136.5	2133.9	2119.5	2106.5	2098.0	2096.0
20°	2097.3	2098.0	2111.0	2126.1	2143.1	2156.1	2150.3	2134.6	2116.9	2103.8	2100.6
22.5°	2105.8	2108.4	2124.8	2148.3	2174.4	2192.1	2184.9	2158.1	2130.6	2114.3	2109.7
25°	2132.6	2133.3	2155.5	2187.5	2218.9	2239.1	2230.6	2192.7	2157.4	2139.1	2133.3
27.5°	2188.2	2190.1	2212.3	2249.6	2276.4	2289.5	2284.2	2253.5	2223.5	2203.8	2205.8
30°	2268.5	2271.2	2296.0	2337.2	2353.5	2356.8	2355.5	2341.1	2313.6	2287.5	2289.5
32.5°	2366.6	2367.9	2401.2	2438.5	2451.6	2454.2	2451.6	2438.5	2405.8	2370.5	2372.5
35°	2492.7	2496.6	2528.7	2564.6	2575.1	2580.3	2575.7	2558.7	2524.8	2490.1	2488.8
37.5°	2648.3	2648.9	2682.3	2719.5	2732.6	2733.9	2728.7	2717.6	2675.1	2643.7	2641.7
40°	2828.7	2831.3	2870.5	2910.4	2915.6	2909.7	2916.9	2910.4	2866.6	2830.6	2836.5
42.5°	3048.3	3054.1	3101.2	3140.4	3125.4	3122.1	3126.7	3128.7	3093.4	3049.6	3045.6
45°	3303.8	3309.0	3367.9	3399.2	3389.4	3367.9	3377.0	3392.7	3343.7	3289.4	3294.7
47.5°	3595.3	3608.4	3671.1	3700.5	3676.3	3646.9	3664.6	3688.1	3630.6	3563.3	3560.0
50°	3919.5	3935.8	4019.5	4060.6	4036.5	3982.2	4011.6	4027.3	3944.3	3857.4	3850.2
52.5°	4265.2	4281.6	4386.8	4471.7	4456.1	4371.7	4412.9	4396.6	4301.2	4184.2	4175.0
55°	4656.7	4663.2	4777.0	4914.2	4929.9	4867.8	4865.2	4838.4	4697.2	4561.9	4555.4
57.5°	5059.3	5063.9	5210.9	5373.0	5446.9	5446.9	5373.7	5316.8	5129.2	4972.4	4956.0
60°	5493.9	5510.3	5673.0	5893.3	6065.8	6116.8	5987.4	5832.5	5628.6	5437.1	5418.1
62.5°	5880.8	5899.8	6148.8	6476.9	6754.0	6939.6	6623.3	6371.0	5999.8	5692.6	5656.7
65°	5929.9	5980.8	6343.6	6937.7	7557.9	7928.5	7322.0	6700.4	6024.0	5597.2	5560.6
67.5°	5415.5	5501.8	5992.0	6916.8	8198.4	8993.8	7768.4	6512.2	5590.0	5118.1	5077.6
70°	4161.3	4286.8	4852.1	6050.1	8088.0	9336.9	7488.6	5701.1	4660.6	4152.8	4095.9
72.5°	2282.9	2334.6	2843.0	4143.0	6484.1	7934.4	6246.2	4215.5	3090.7	2514.9	2419.5
75°	724.2	742.5	1001.3	1695.4	3667.8	5255.4	3967.8	2069.2	1139.2	839.8	830.0
77.5°	321.6	323.5	362.1	494.8	1263.4	2662.7	1517.6	563.4	388.2	339.2	350.3
80°	203.3	203.3	224.2	245.1	343.8	773.2	410.4	268.0	228.8	212.4	217.0
82.5°	97.4	107.8	145.7	156.9	188.9	260.1	210.5	175.2	152.9	113.7	105.9
85°	64.1	53.6	92.2	103.9	109.8	124.8	122.2	115.7	100.0	56.9	63.4
87.5°	28.8	27.5	47.7	43.8	41.2	31.4	47.1	58.2	56.2	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)