

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: P316589

Luminaire Tested: **GAN-SA5A-827-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316589
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-SA5A-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 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: 17987 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

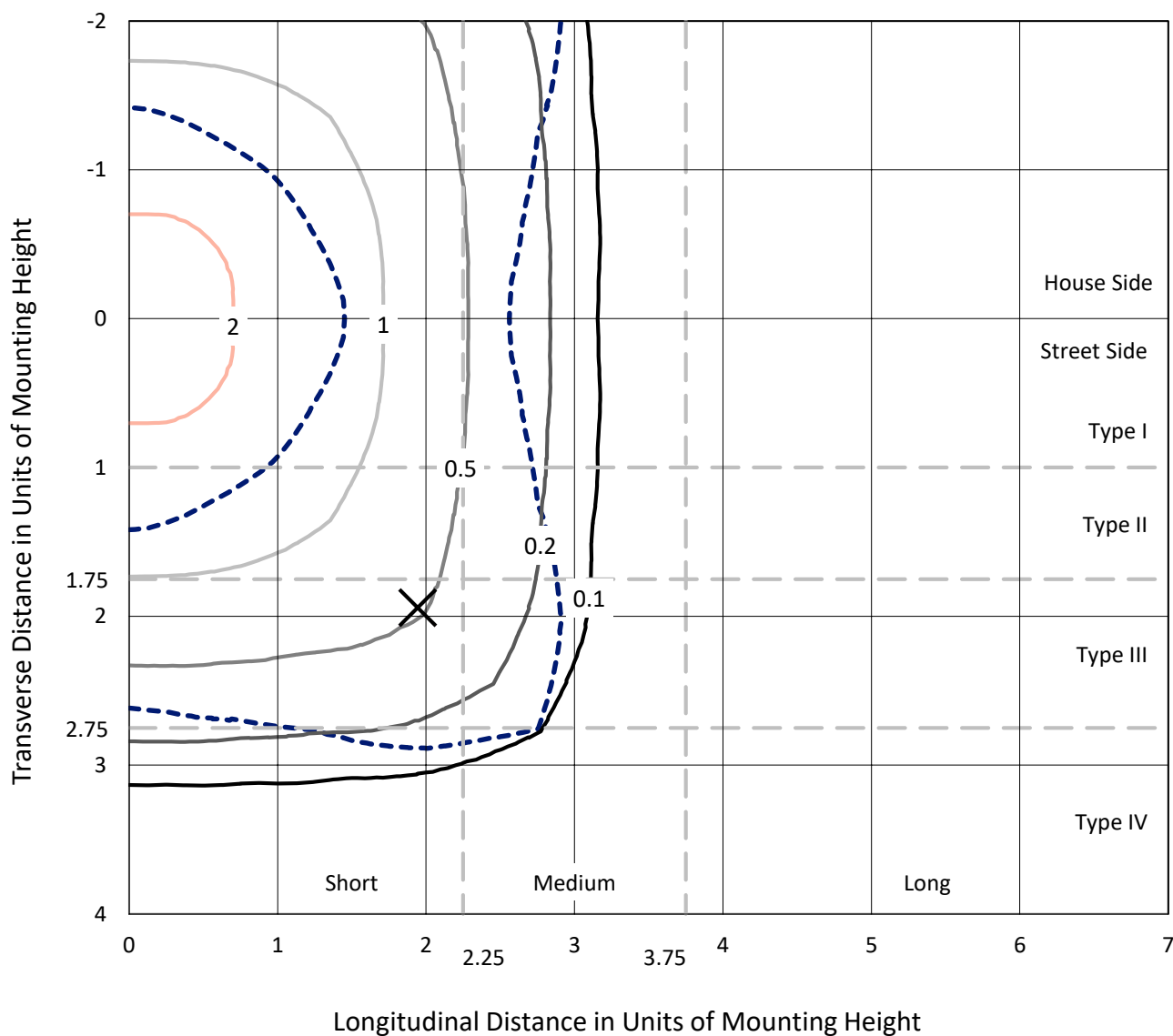
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

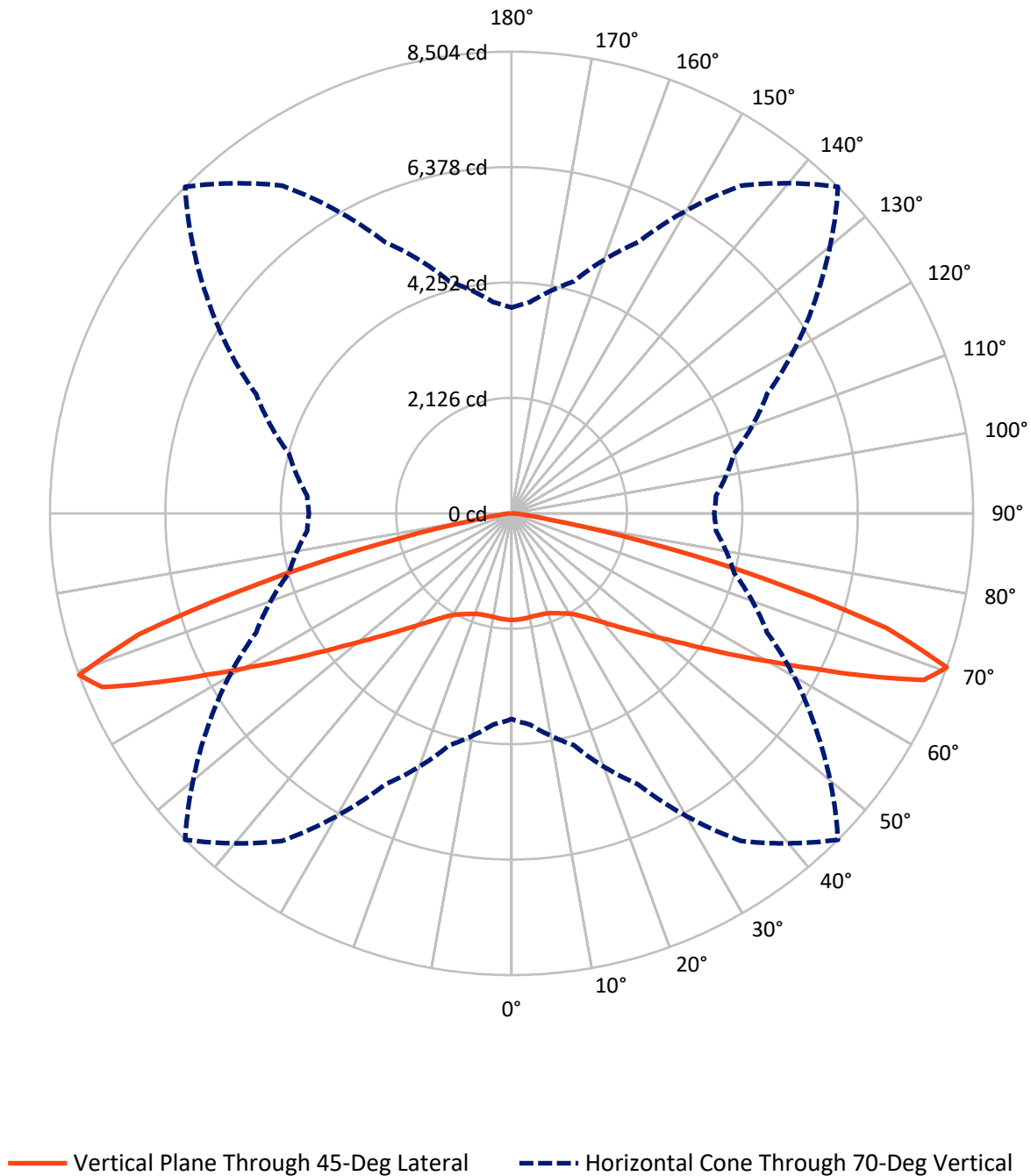
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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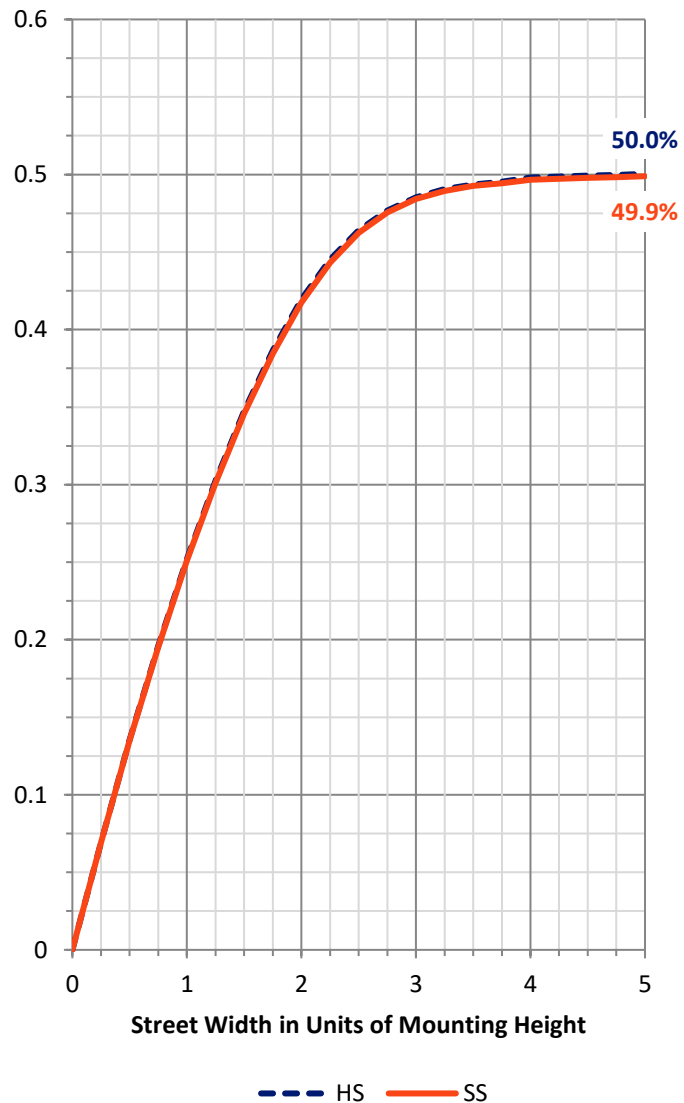
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8993.5	0.0	8993.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8993.5	0.0	8993.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17987.0	0.0	17987.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	1.0
10°-20°	546.2	3.0
20°-30°	929.8	5.2
30°-40°	1474.7	8.2
40°-50°	2399.8	13.3
50°-60°	3956.8	22.0
60°-70°	5808.7	32.3
70°-80°	2568.6	14.3
80°-90°	116.3	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°	17987.0	100.0
0°-180°	17987.0	100.0

Coefficient of Utilization



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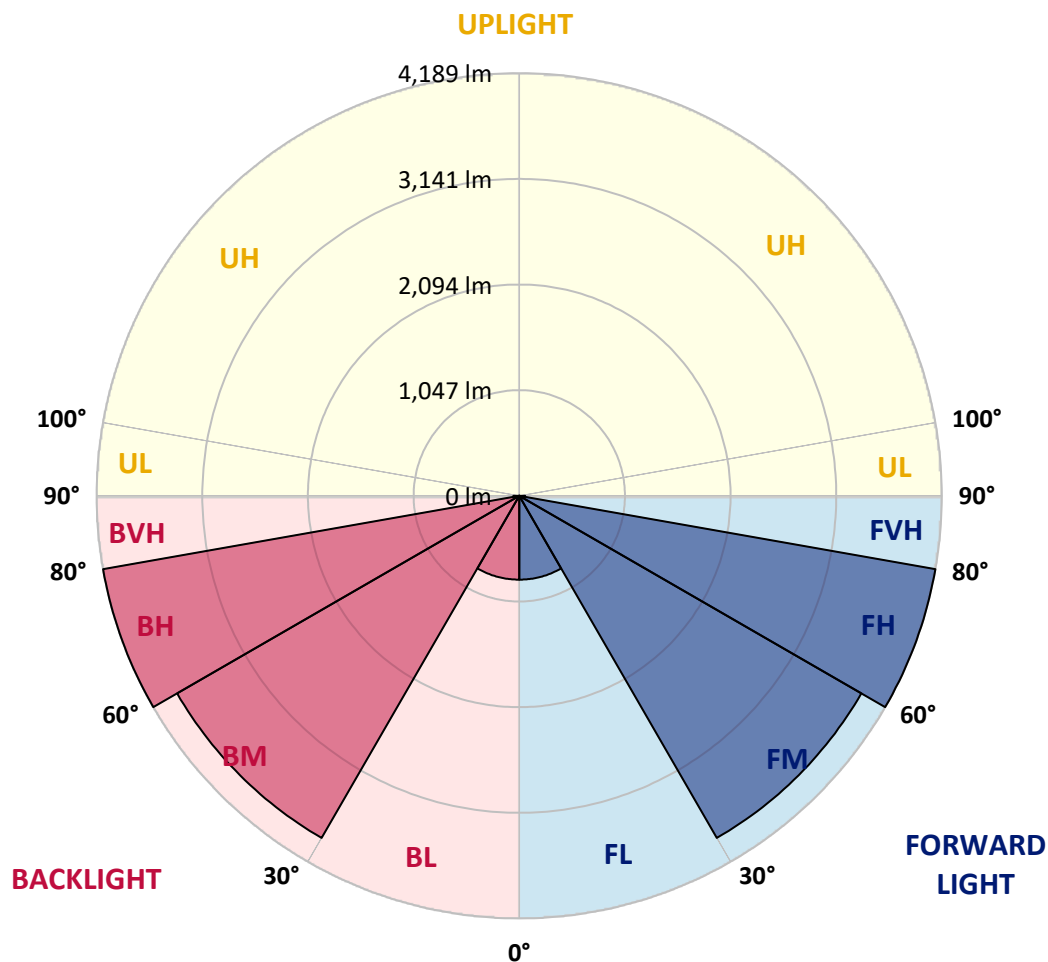
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	831.0	4.6			
FM	(30°-60°)	3915.6	21.8			
FH	(60°-80°)	4188.6	23.3			G2/5000
FVH	(80°-90°)	58.2	0.3			G1/100
BL	(0°-30°)	831.0	4.6	B2/1000		
BM	(30°-60°)	3915.6	21.8	B3/5000		
BH	(60°-80°)	4188.6	23.3	B4/5000		G2/5000
BVH	(80°-90°)	58.2	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°	1964.5	1964.5	1964.5	1964.5	1964.5	1964.5	1964.5	1964.5	1964.5	1964.5	1964.5
2.5°	1961.5	1959.7	1963.9	1963.3	1959.7	1960.3	1960.3	1962.1	1962.1	1960.9	1960.9
5°	1954.3	1953.1	1957.9	1957.9	1954.3	1955.5	1956.7	1958.5	1957.9	1956.7	1956.1
7.5°	1945.4	1944.8	1949.6	1949.6	1947.2	1948.4	1947.2	1947.8	1946.6	1945.4	1943.6
10°	1930.5	1931.7	1935.9	1937.1	1937.1	1937.7	1936.5	1933.5	1931.7	1929.9	1928.1
12.5°	1916.8	1916.2	1922.2	1925.2	1929.9	1935.3	1931.7	1923.4	1919.8	1916.2	1915.1
15°	1907.9	1908.5	1914.5	1919.8	1928.1	1939.5	1935.3	1922.2	1915.1	1910.9	1909.7
17.5°	1906.1	1907.3	1915.1	1924.6	1933.5	1946.0	1943.6	1930.5	1918.6	1910.9	1909.1
20°	1910.3	1910.9	1922.8	1936.5	1952.0	1963.9	1958.5	1944.2	1928.1	1916.2	1913.3
22.5°	1918.0	1920.4	1935.3	1956.7	1980.5	1996.6	1990.1	1965.7	1940.6	1925.8	1921.6
25°	1942.4	1943.0	1963.3	1992.4	2021.0	2039.5	2031.7	1997.2	1965.1	1948.4	1943.0
27.5°	1993.0	1994.8	2015.1	2049.0	2073.4	2085.3	2080.5	2052.6	2025.2	2007.3	2009.1
30°	2066.3	2068.6	2091.3	2128.8	2143.6	2146.6	2145.4	2132.3	2107.3	2083.5	2085.3
32.5°	2155.5	2156.7	2187.1	2221.0	2232.9	2235.3	2232.9	2221.0	2191.3	2159.1	2160.9
35°	2270.4	2274.0	2303.2	2335.9	2345.4	2350.2	2346.0	2330.6	2299.6	2268.1	2266.9
37.5°	2412.1	2412.7	2443.1	2477.0	2488.9	2490.1	2485.3	2475.2	2436.5	2408.0	2406.2
40°	2576.4	2578.8	2614.5	2650.8	2655.6	2650.2	2656.8	2650.8	2610.9	2578.2	2583.6
42.5°	2776.4	2781.8	2824.7	2860.4	2846.7	2843.7	2847.9	2849.7	2817.5	2777.6	2774.1
45°	3009.2	3014.0	3067.5	3096.1	3087.2	3067.5	3075.9	3090.2	3045.5	2996.1	3000.9
47.5°	3274.7	3286.6	3343.7	3370.5	3348.5	3321.7	3337.8	3359.2	3306.8	3245.5	3242.6
50°	3570.0	3584.8	3661.0	3698.5	3676.5	3627.1	3653.9	3668.2	3592.6	3513.4	3506.9
52.5°	3884.9	3899.8	3995.6	4073.0	4058.7	3981.9	4019.4	4004.5	3917.6	3811.1	3802.7
55°	4241.4	4247.4	4351.0	4476.0	4490.3	4433.7	4431.3	4406.9	4278.4	4155.1	4149.2
57.5°	4608.1	4612.3	4746.3	4893.9	4961.2	4961.2	4894.5	4842.7	4671.8	4529.0	4514.1
60°	5004.0	5018.9	5167.1	5367.7	5524.9	5571.3	5453.5	5312.4	5126.6	4952.2	4935.0
62.5°	5356.4	5373.7	5600.5	5899.3	6151.7	6320.8	6032.7	5802.9	5464.8	5185.0	5152.2
65°	5401.1	5447.5	5777.9	6319.0	6883.9	7221.5	6669.0	6102.9	5486.8	5098.1	5064.7
67.5°	4932.6	5011.2	5457.6	6300.0	7467.3	8191.8	7075.6	5931.5	5091.5	4661.7	4624.8
70°	3790.2	3904.5	4419.4	5510.6	7366.7	8504.3	6820.8	5192.7	4245.0	3782.5	3730.7
72.5°	2079.4	2126.4	2589.5	3773.5	5905.9	7226.8	5689.2	3839.6	2815.1	2290.7	2203.8
75°	659.6	676.3	912.0	1544.2	3340.8	4786.7	3614.0	1884.7	1037.6	764.9	756.0
77.5°	292.9	294.7	329.8	450.6	1150.7	2425.2	1382.3	513.1	353.6	309.0	319.1
80°	185.1	185.1	204.2	223.2	313.1	704.2	373.8	244.1	208.4	193.5	197.6
82.5°	88.7	98.2	132.7	142.9	172.0	236.9	191.7	159.5	139.3	103.6	96.4
85°	58.3	48.8	83.9	94.7	100.0	113.7	111.3	105.4	91.1	51.8	57.7
87.5°	26.2	25.0	43.5	39.9	37.5	28.6	42.9	53.0	51.2	25.6	25.6
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)