

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: P316088

Luminaire Tested: **GAN-SA4C-727-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25132 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

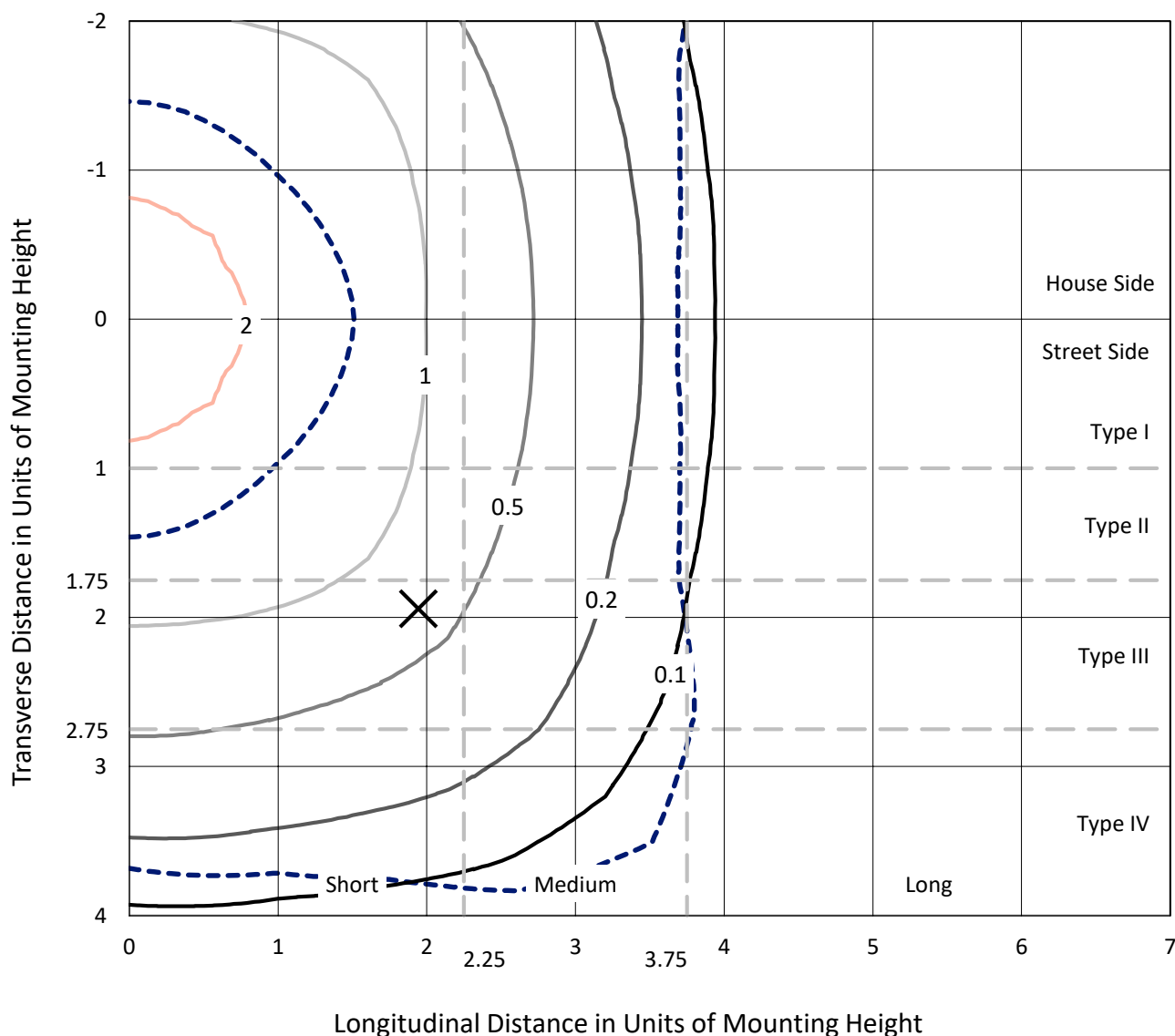
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

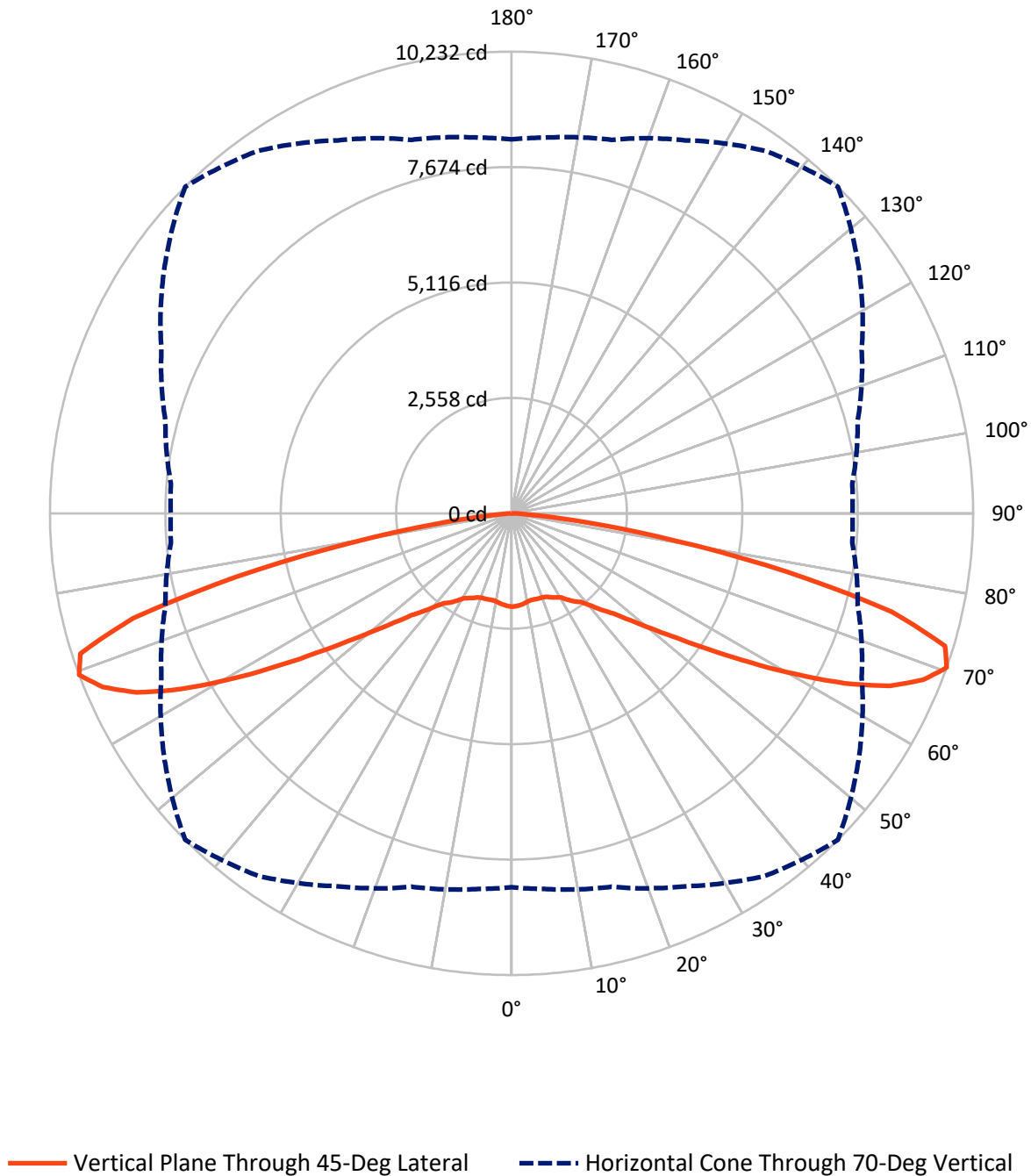
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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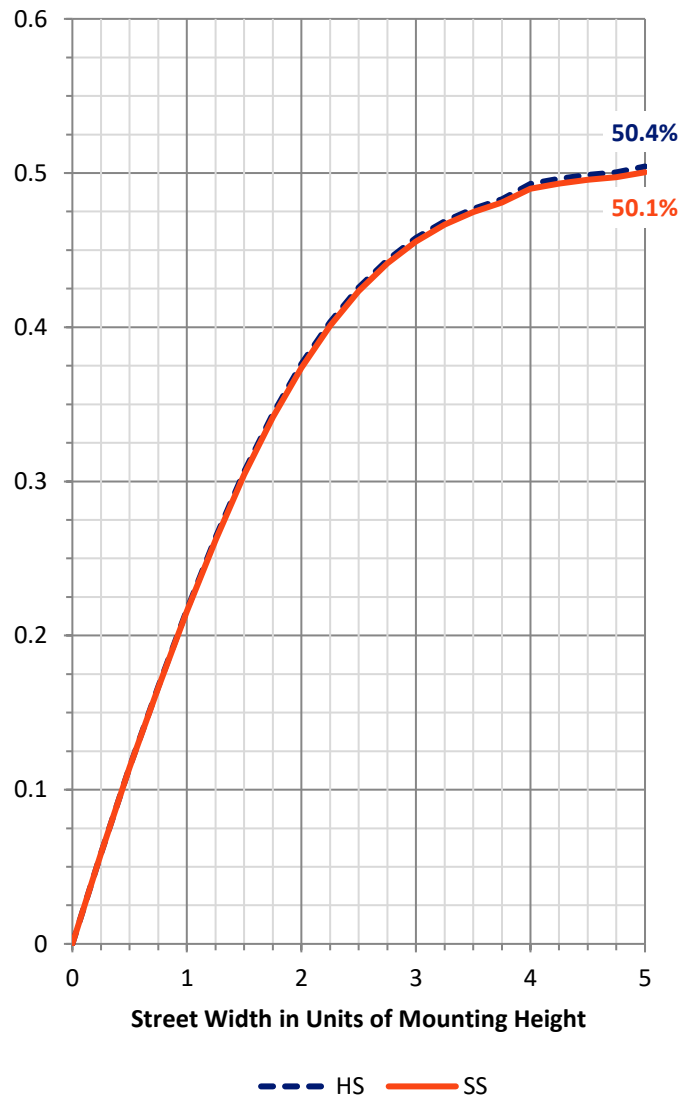
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12566.0	0.0	12566.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12566.0	0.0	12566.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25132.0	0.0	25132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.1	0.8
10°-20°	563.9	2.2
20°-30°	961.4	3.8
30°-40°	1502.3	6.0
40°-50°	2546.0	10.1
50°-60°	4642.8	18.5
60°-70°	7992.9	31.8
70°-80°	6265.1	24.9
80°-90°	464.6	1.8
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°	25132.0	100.0
0°-180°	25132.0	100.0

Coefficient of Utilization



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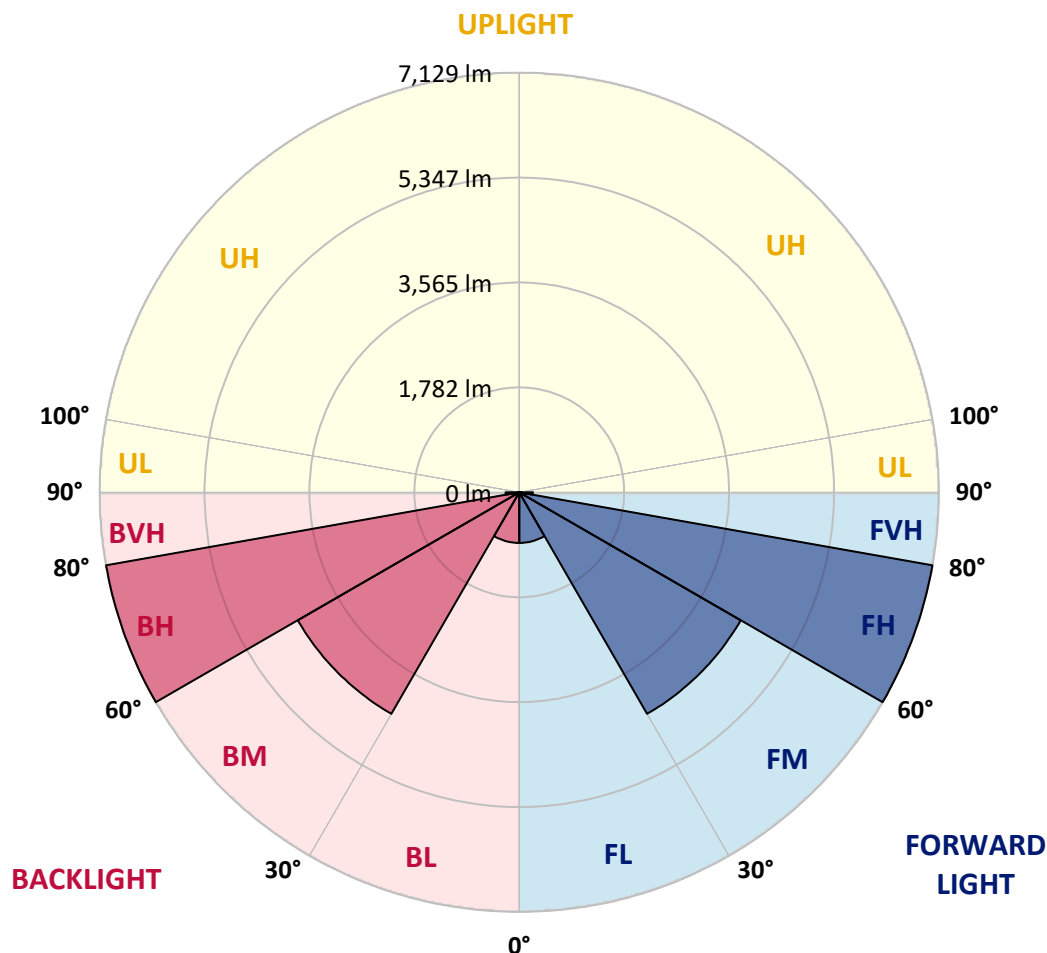
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	859.2	3.4			
FM	(30°-60°)	4345.5	17.3			
FH	(60°-80°)	7129.0	28.4			G3/7500
FVH	(80°-90°)	232.3	0.9			G3/500
BL	(0°-30°)	859.2	3.4	B2/1000		
BM	(30°-60°)	4345.5	17.3	B3/5000		
BH	(60°-80°)	7129.0	28.4	B5		G3/7500
BVH	(80°-90°)	232.3	0.9			G3/500
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°	2068.4	2068.4	2068.4	2068.4	2068.4	2068.4	2068.4	2068.4	2068.4	2068.4	2068.4
2.5°	2059.2	2061.7	2059.2	2060.9	2056.7	2058.4	2058.4	2058.4	2057.6	2058.4	2056.7
5°	2040.9	2042.6	2039.3	2040.9	2038.4	2040.9	2041.8	2040.9	2039.3	2040.1	2036.8
7.5°	2013.5	2015.2	2012.7	2015.2	2011.8	2016.0	2015.2	2012.7	2010.2	2010.2	2006.8
10°	1998.5	1999.4	1992.7	1990.2	1982.7	1984.4	1986.9	1989.4	1991.9	1996.9	1996.0
12.5°	1999.4	1999.4	1989.4	1978.6	1967.8	1970.3	1974.4	1983.6	1993.5	2002.7	2003.5
15°	2007.7	2006.8	1991.9	1974.4	1966.9	1974.4	1976.9	1982.7	1998.5	2014.3	2015.2
17.5°	2013.5	2013.5	1990.2	1970.3	1969.4	1981.1	1980.2	1982.7	2000.2	2023.5	2024.3
20°	2024.3	2024.3	1994.4	1972.8	1972.8	1985.2	1986.1	1990.2	2007.7	2033.5	2037.6
22.5°	2048.4	2049.2	2017.7	2000.2	2001.9	2009.3	2011.8	2018.5	2034.3	2062.5	2067.5
25°	2082.5	2084.2	2051.7	2041.8	2047.6	2061.7	2060.1	2065.0	2082.5	2109.9	2114.9
27.5°	2129.9	2125.7	2095.8	2091.6	2097.5	2107.4	2106.6	2107.4	2121.6	2146.5	2152.3
30°	2191.4	2189.7	2168.1	2170.6	2168.1	2164.8	2165.6	2172.3	2179.8	2199.7	2205.5
32.5°	2251.3	2252.9	2239.6	2252.1	2270.4	2282.9	2263.7	2245.4	2237.1	2247.9	2252.9
35°	2359.3	2363.5	2342.7	2334.4	2359.3	2395.9	2341.9	2311.9	2328.6	2342.7	2346.9
37.5°	2543.1	2545.6	2510.6	2477.4	2459.1	2494.0	2440.0	2442.5	2500.7	2527.3	2526.4
40°	2752.6	2753.4	2730.1	2701.0	2669.4	2677.7	2656.1	2662.8	2701.0	2725.1	2731.8
42.5°	3002.0	2999.5	2962.9	2921.3	2912.2	2920.5	2883.9	2878.9	2923.0	2966.2	2967.0
45°	3325.3	3319.5	3272.1	3226.4	3182.4	3164.1	3154.9	3179.0	3239.7	3279.6	3280.5
47.5°	3673.7	3657.9	3632.9	3596.4	3558.1	3539.8	3524.9	3536.5	3580.6	3596.4	3598.0
50°	4032.0	4035.3	4040.3	4026.2	4012.0	4006.2	3967.1	3944.7	3958.0	3928.9	3924.7
52.5°	4456.8	4463.4	4511.7	4552.4	4576.5	4589.0	4515.0	4437.7	4394.4	4337.9	4321.3
55°	4958.1	4968.9	5039.6	5152.6	5269.0	5330.5	5196.7	5052.0	4918.2	4812.6	4778.5
57.5°	5516.8	5535.9	5633.1	5850.1	6088.7	6234.2	6008.1	5745.4	5486.8	5334.7	5308.1
60°	6171.8	6190.1	6324.8	6635.7	7022.3	7240.9	6898.4	6468.6	6146.9	6001.4	5952.4
62.5°	6951.6	6953.3	7118.7	7482.0	7992.5	8296.7	7832.9	7258.4	6926.7	6751.3	6703.9
65°	7790.5	7794.6	7965.9	8358.3	8886.2	9217.0	8693.3	8094.7	7689.0	7430.5	7393.9
67.5°	8383.2	8400.7	8581.1	9053.3	9547.1	9845.5	9303.5	8626.8	8157.9	7849.5	7818.7
70°	8288.4	8356.6	8568.6	9119.8	9806.5	10232.1	9402.4	8563.6	7945.1	7581.0	7555.2
72.5°	7228.5	7359.0	7641.7	8364.9	9463.1	10049.2	8862.9	7669.9	6969.9	6659.8	6613.3
75°	4922.3	5134.3	5560.8	6604.1	8084.8	8700.8	7461.3	6115.3	5456.9	5027.9	4996.3
77.5°	2194.7	2242.9	2783.3	3984.6	5579.1	6248.3	5421.2	4000.4	3002.8	2395.1	2267.1
80°	611.9	619.3	826.3	1483.9	2792.5	3671.2	2997.8	1558.8	876.2	617.7	581.9
82.5°	194.5	211.2	257.7	384.9	938.6	1675.1	963.5	415.7	296.0	236.1	212.8
85°	94.8	93.9	130.5	156.3	239.4	370.8	255.2	192.9	168.8	112.2	101.4
87.5°	39.9	40.7	60.7	54.9	69.8	59.9	82.3	86.5	90.6	49.9	43.2
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)