

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: P317238

Luminaire Tested: **GAN-SA4B-827-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17322 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

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



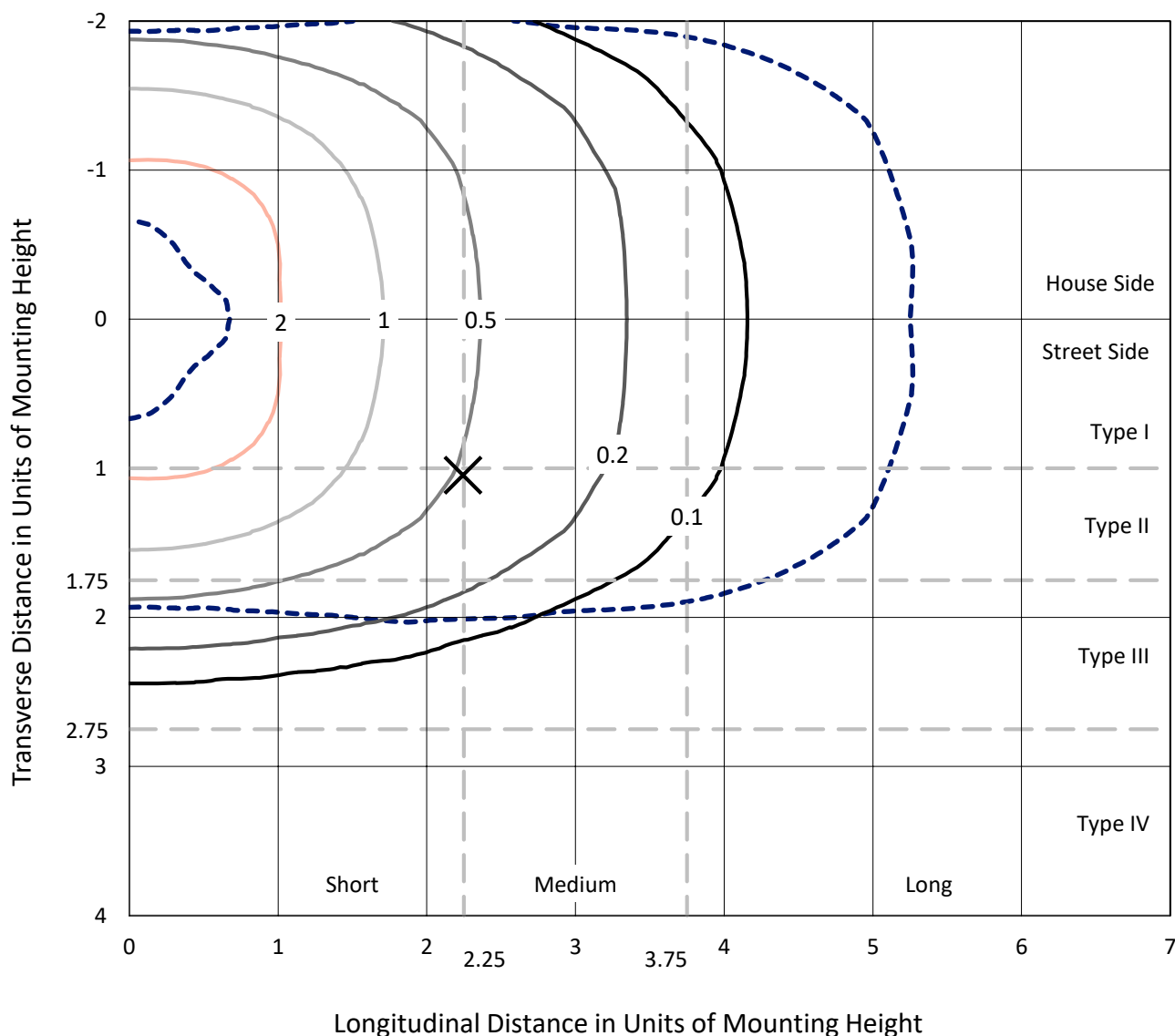
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

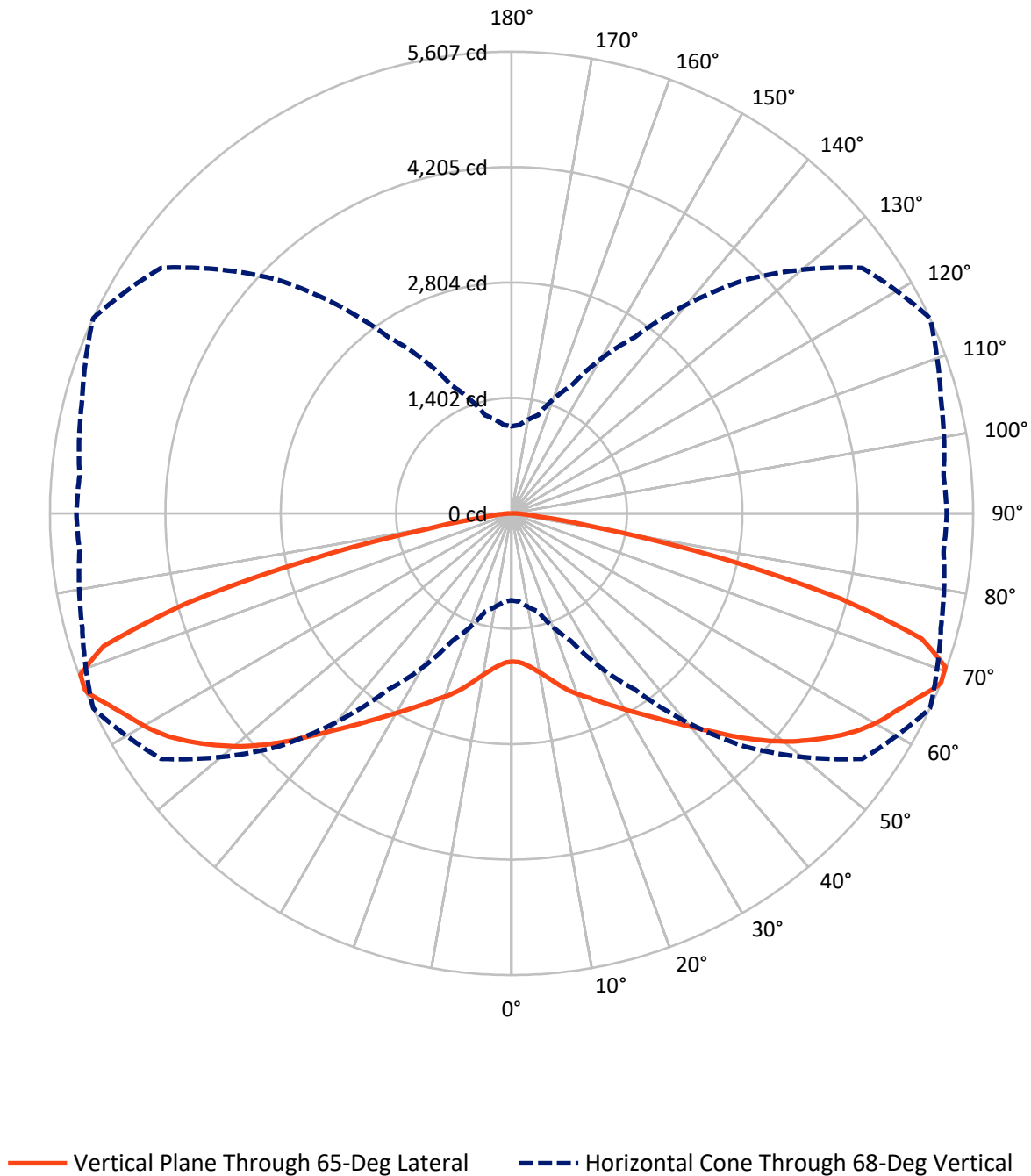
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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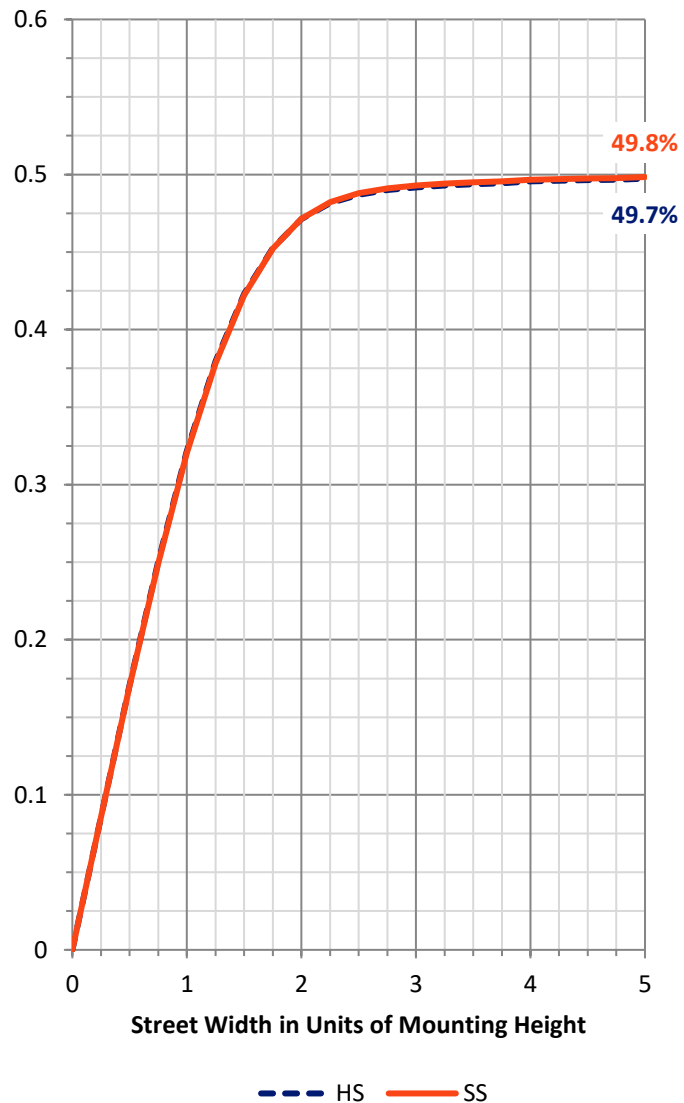
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8661.0	0.0	8661.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8661.0	0.0	8661.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17322.0	0.0	17322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.3	1.0
10°-20°	590.5	3.4
20°-30°	1151.2	6.6
30°-40°	1934.0	11.2
40°-50°	3047.3	17.6
50°-60°	4075.2	23.5
60°-70°	3961.6	22.9
70°-80°	2165.6	12.5
80°-90°	220.2	1.3
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°	17322.0	100.0
0°-180°	17322.0	100.0

Coefficient of Utilization



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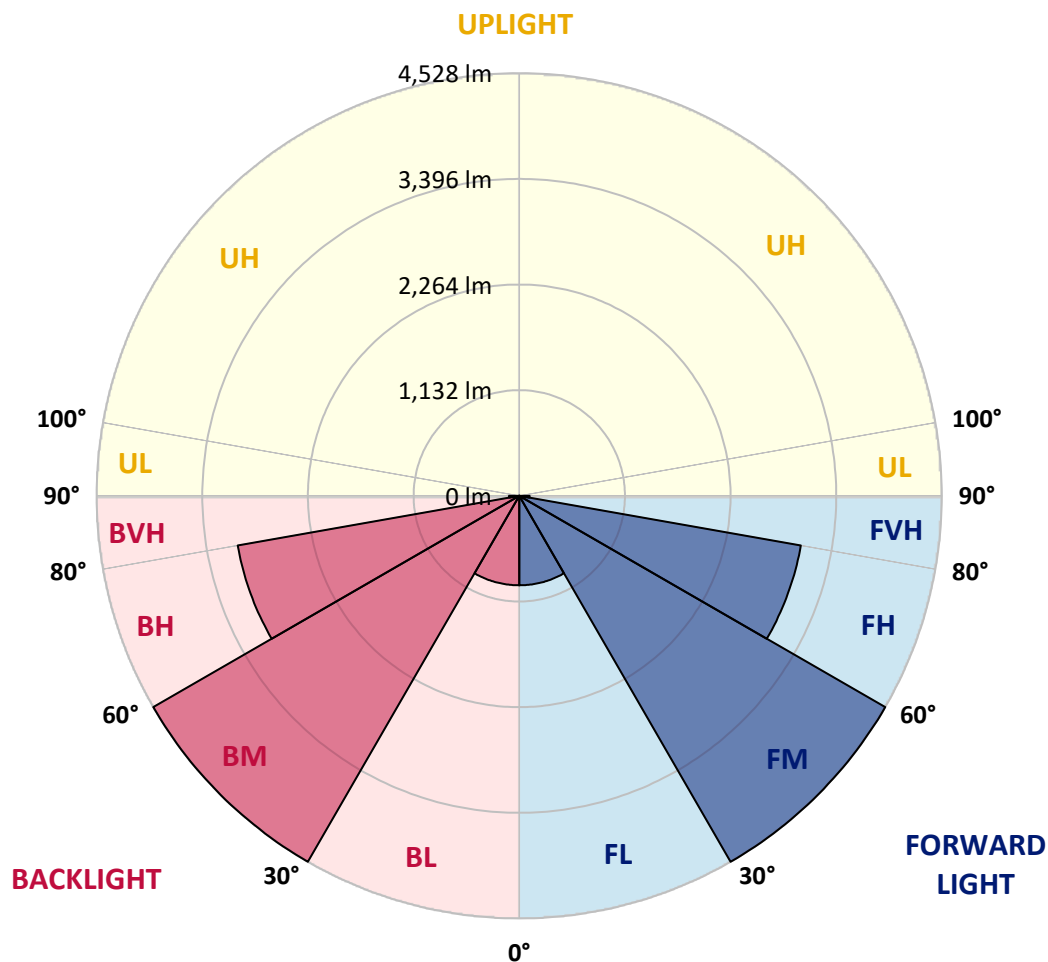
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	959.0	5.5			
FM	(30°-60°)	4528.2	26.1			
FH	(60°-80°)	3063.6	17.7			G2/5000
FVH	(80°-90°)	110.1	0.6			G2/225
BL	(0°-30°)	959.0	5.5	B2/1000		
BM	(30°-60°)	4528.2	26.1	B3/5000		
BH	(60°-80°)	3063.6	17.7	B4/5000		G4/5000
BVH	(80°-90°)	110.1	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1801.1	1801.1	1801.1	1801.1	1801.1	1801.1	1801.1	1801.1	1801.1	1801.1	1801.1
2.5°	1788.3	1788.9	1791.8	1795.3	1798.2	1805.7	1807.5	1810.4	1811.5	1814.4	1814.4
5°	1772.6	1773.8	1780.8	1790.0	1800.5	1819.1	1832.4	1847.5	1855.1	1863.2	1862.6
7.5°	1770.9	1773.8	1783.7	1798.8	1816.2	1847.0	1874.8	1905.0	1925.4	1944.0	1942.8
10°	1788.9	1793.5	1807.5	1830.1	1856.3	1894.6	1935.8	1976.5	2011.9	2040.4	2041.5
12.5°	1816.2	1822.0	1844.1	1878.3	1917.8	1967.2	2016.0	2061.9	2110.7	2153.0	2156.5
15°	1852.2	1859.7	1892.8	1944.0	2004.4	2063.0	2115.3	2162.3	2218.7	2277.3	2283.1
17.5°	1905.6	1916.1	1959.6	2028.8	2108.3	2172.8	2227.4	2262.8	2309.9	2370.3	2381.3
20°	1986.9	2000.3	2055.5	2137.9	2234.9	2302.3	2344.1	2351.7	2374.9	2428.9	2441.7
22.5°	2092.6	2104.3	2165.8	2264.0	2372.6	2445.8	2467.8	2437.6	2435.3	2478.9	2491.1
25°	2210.5	2221.0	2292.4	2402.8	2519.5	2600.3	2599.7	2541.0	2500.4	2534.1	2546.8
27.5°	2343.0	2359.2	2427.8	2543.9	2668.8	2748.4	2743.7	2653.1	2575.9	2584.6	2595.6
30°	2495.1	2513.1	2579.9	2697.8	2822.7	2900.5	2894.7	2775.1	2658.9	2635.7	2643.8
32.5°	2683.9	2705.4	2768.7	2884.9	2995.2	3065.5	3048.7	2907.5	2758.8	2708.3	2715.9
35°	2911.0	2923.8	2990.6	3105.0	3194.4	3242.6	3207.2	3060.8	2885.4	2824.5	2824.5
37.5°	3141.0	3150.9	3225.8	3336.7	3423.3	3448.8	3379.7	3228.7	3051.0	2964.4	2966.2
40°	3361.7	3388.4	3472.6	3586.5	3671.9	3678.8	3587.1	3420.4	3235.1	3145.6	3156.1
42.5°	3592.3	3618.4	3718.9	3847.8	3923.3	3935.0	3827.5	3635.3	3443.0	3370.4	3382.0
45°	3797.9	3818.8	3935.0	4084.8	4178.9	4209.1	4081.9	3881.5	3667.8	3596.9	3599.8
47.5°	3941.4	3968.6	4096.4	4273.0	4410.1	4456.5	4331.7	4121.4	3889.1	3803.1	3810.7
50°	4071.5	4086.0	4215.5	4408.3	4582.6	4678.4	4571.5	4358.4	4112.7	4021.5	4029.6
52.5°	4144.1	4162.6	4288.1	4489.1	4695.2	4849.7	4784.7	4571.5	4328.7	4239.9	4249.8
55°	4093.5	4107.5	4257.9	4507.1	4764.9	4955.4	4965.3	4780.0	4540.7	4462.9	4490.8
57.5°	3863.5	3880.9	4064.5	4390.9	4773.6	5026.9	5101.2	4973.4	4738.8	4675.5	4691.8
60°	3504.0	3515.0	3710.8	4077.8	4604.1	5056.5	5187.8	5131.4	4932.8	4869.5	4891.6
62.5°	2863.4	2879.6	3113.7	3605.6	4245.7	4968.8	5271.4	5262.1	5113.4	5055.3	5075.1
65°	1957.3	1985.8	2244.8	2866.9	3693.3	4700.5	5347.5	5414.3	5273.1	5200.0	5226.1
67.5°	1181.9	1202.8	1390.5	1892.8	2826.2	4159.2	5269.1	5587.4	5385.8	5267.9	5289.4
68°	1056.5	1075.7	1232.5	1708.2	2614.2	4006.4	5197.6	5607.1	5398.0	5266.8	5285.9
70°	638.3	651.1	756.2	1055.9	1743.0	3178.2	4710.3	5590.8	5475.8	5283.0	5294.0
72.5°	415.9	419.9	437.3	541.9	890.4	1777.3	3535.4	5209.8	5592.6	5377.7	5375.9
75°	345.6	343.3	345.0	357.2	439.1	779.4	2065.9	4115.6	5331.2	5228.4	5191.8
77.5°	292.1	290.4	289.8	290.4	293.9	376.4	896.8	2563.7	4079.6	4625.0	4657.5
80°	236.4	234.1	241.6	238.1	227.7	234.1	375.8	1066.4	1923.0	2068.8	1938.7
82.5°	171.9	163.2	195.7	186.4	177.7	164.9	207.3	344.4	458.8	314.8	221.3
85°	132.4	123.1	148.7	142.9	122.0	84.2	123.1	168.4	185.9	106.3	83.6
87.5°	54.0	56.9	107.4	84.8	71.4	40.7	50.5	67.4	90.6	45.3	34.8
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)