

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: P317278

Luminaire Tested: **GAN-SA4B-830-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317278
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-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18724 lumens
Efficiency: N/A
Efficacy: 109.5 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



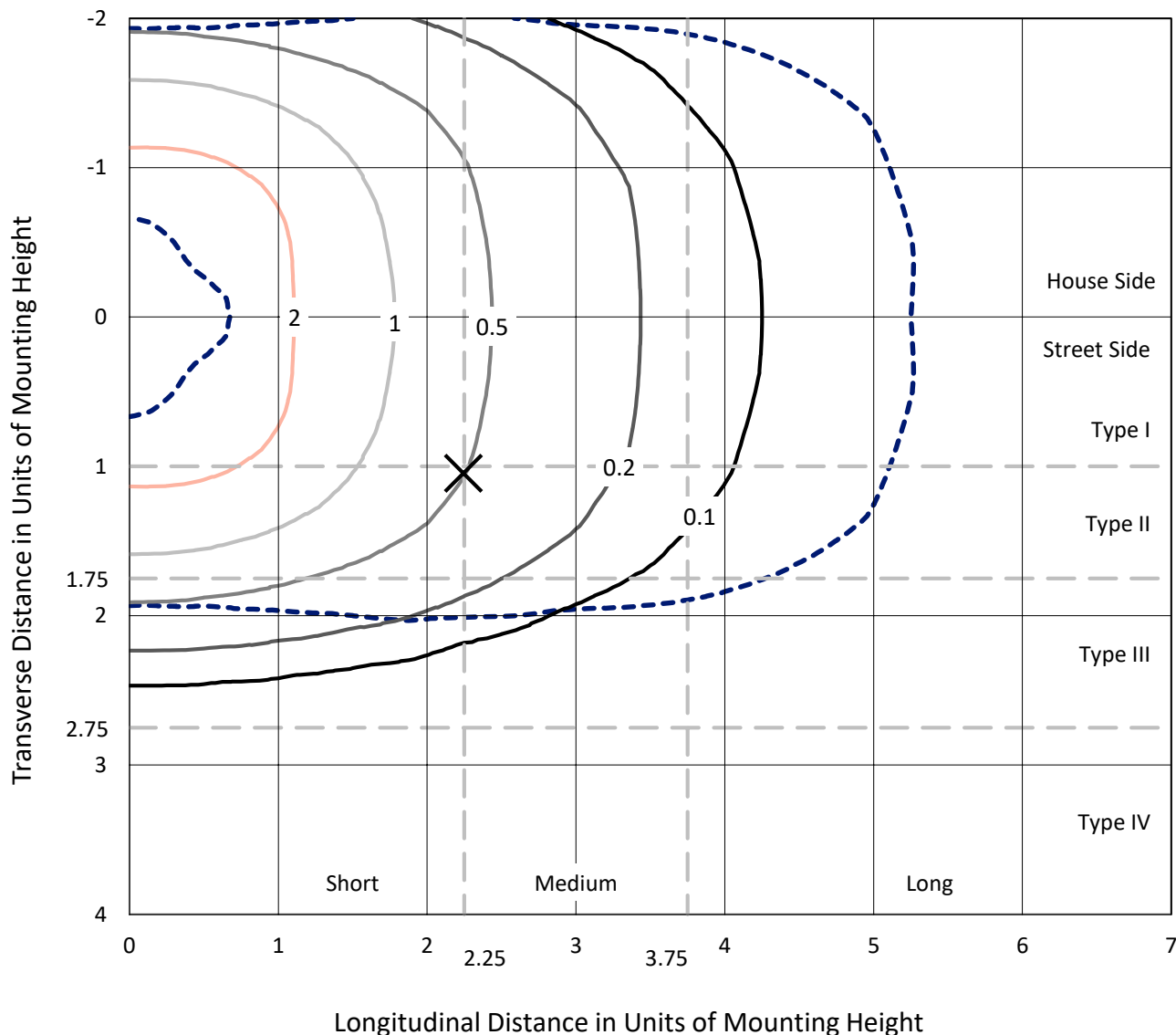
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

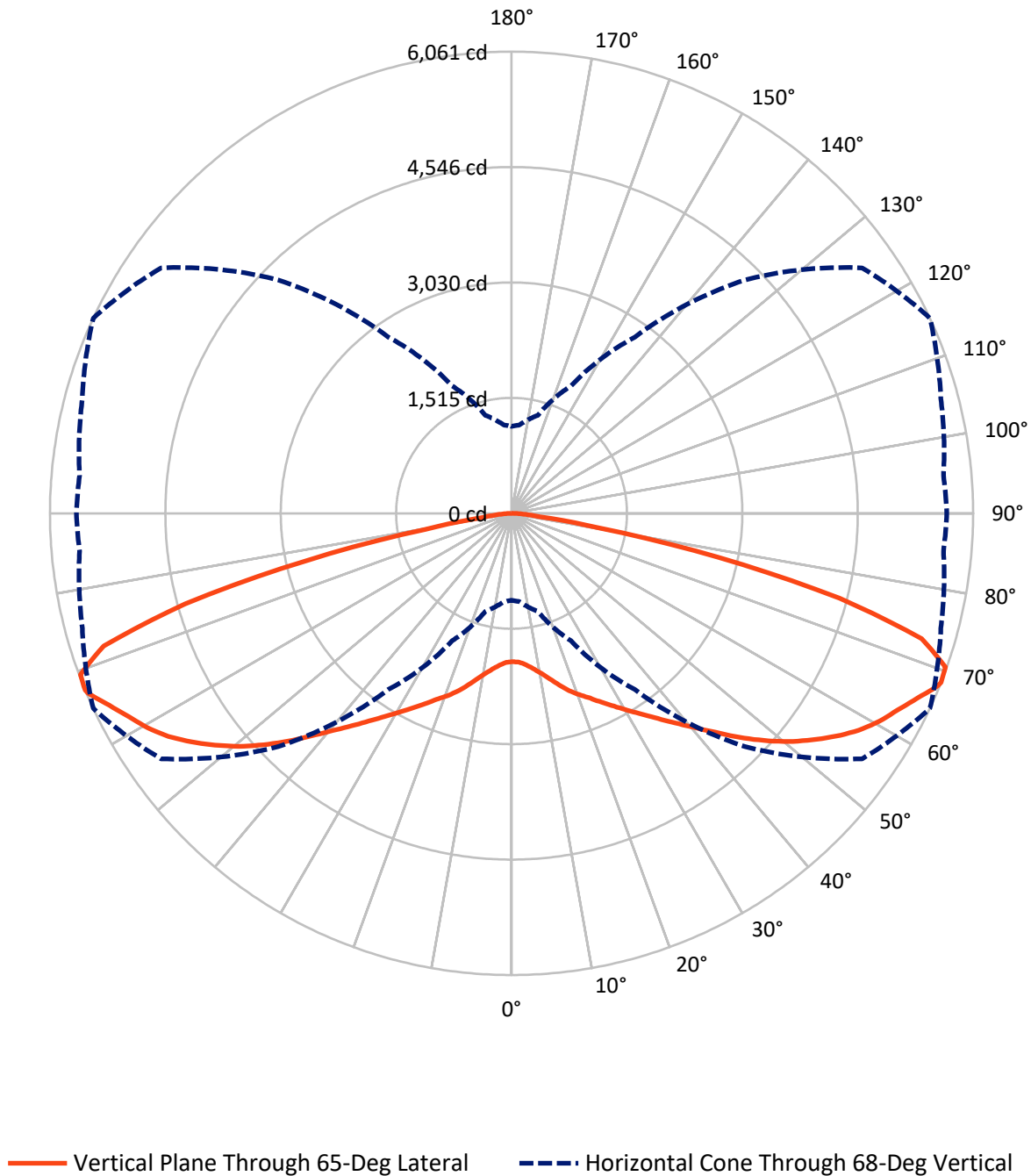
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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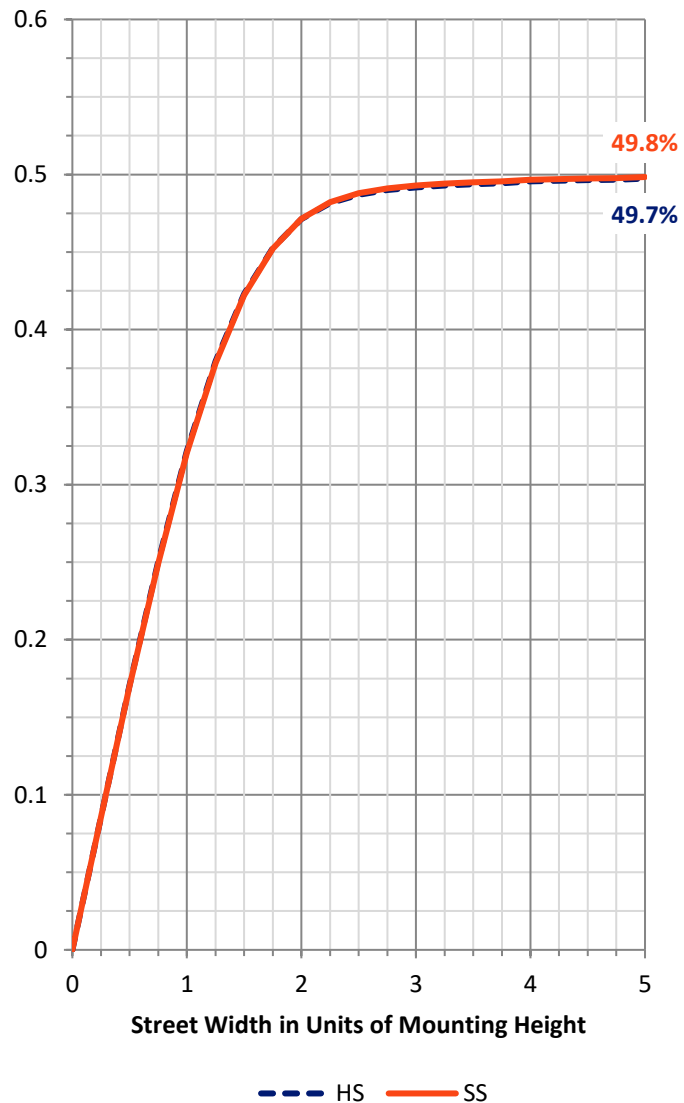
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9362.0	0.0	9362.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9362.0	0.0	9362.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18724.0	0.0	18724.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.6	1.0
10°-20°	638.2	3.4
20°-30°	1244.4	6.6
30°-40°	2090.5	11.2
40°-50°	3293.9	17.6
50°-60°	4405.1	23.5
60°-70°	4282.3	22.9
70°-80°	2340.9	12.5
80°-90°	238.1	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°	18724.0	100.0
0°-180°	18724.0	100.0

Coefficient of Utilization



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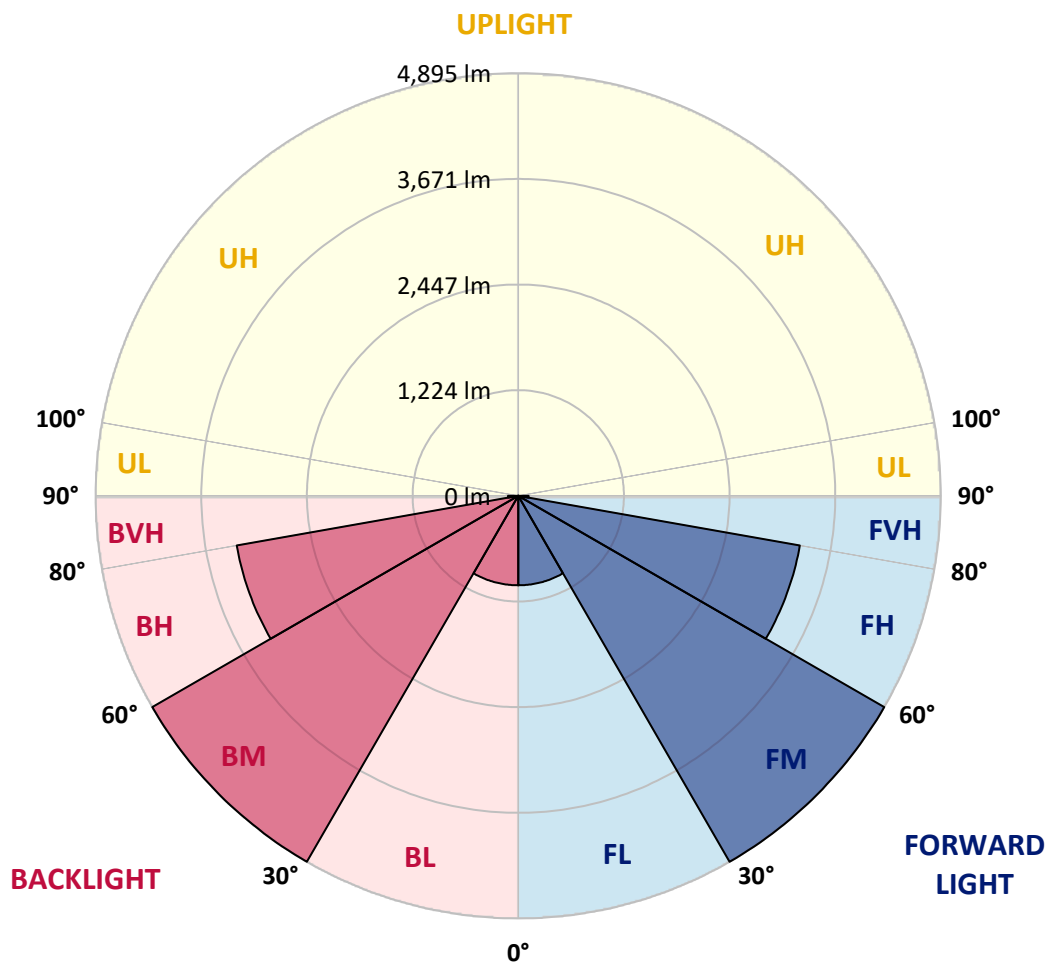
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1036.6	5.5			
FM	(30°-60°)	4894.7	26.1			
FH	(60°-80°)	3311.6	17.7			G2/5000
FVH	(80°-90°)	119.0	0.6			G2/225
BL	(0°-30°)	1036.6	5.5	B3/2500		
BM	(30°-60°)	4894.7	26.1	B3/5000		
BH	(60°-80°)	3311.6	17.7	B4/5000		G4/5000
BVH	(80°-90°)	119.0	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°	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9
2.5°	1933.0	1933.7	1936.8	1940.6	1943.7	1951.9	1953.8	1956.9	1958.2	1961.3	1961.3
5°	1916.1	1917.3	1924.9	1934.9	1946.2	1966.3	1980.8	1997.1	2005.2	2014.0	2013.4
7.5°	1914.2	1917.3	1928.0	1944.3	1963.2	1996.5	2026.6	2059.2	2081.2	2101.3	2100.0
10°	1933.7	1938.7	1953.8	1978.2	2006.5	2047.9	2092.5	2136.5	2174.8	2205.5	2206.8
12.5°	1963.2	1969.5	1993.3	2030.4	2073.0	2126.4	2179.1	2228.7	2281.5	2327.3	2331.1
15°	2002.1	2010.3	2046.1	2101.3	2166.6	2230.0	2286.5	2337.4	2398.3	2461.7	2467.9
17.5°	2059.9	2071.2	2118.2	2193.0	2279.0	2348.7	2407.7	2446.0	2496.8	2562.1	2574.0
20°	2147.8	2162.2	2221.8	2311.0	2415.8	2488.7	2533.9	2542.0	2567.1	2625.5	2639.3
22.5°	2262.0	2274.6	2341.1	2447.2	2564.6	2643.7	2667.6	2634.9	2632.4	2679.5	2692.7
25°	2389.5	2400.8	2478.0	2597.3	2723.5	2810.7	2810.1	2746.7	2702.7	2739.2	2753.0
27.5°	2532.6	2550.2	2624.3	2749.8	2884.8	2970.8	2965.8	2867.9	2784.4	2793.8	2805.7
30°	2697.1	2716.6	2788.8	2916.2	3051.2	3135.3	3129.0	2999.7	2874.1	2849.0	2857.8
32.5°	2901.1	2924.4	2992.8	3118.4	3237.6	3313.6	3295.4	3142.8	2982.1	2927.5	2935.7
35°	3146.6	3160.4	3232.6	3356.3	3453.0	3505.1	3466.8	3308.6	3119.0	3053.1	3053.1
37.5°	3395.2	3405.9	3486.9	3606.8	3700.3	3728.0	3653.3	3490.0	3297.9	3204.4	3206.3
40°	3633.8	3662.7	3753.7	3876.8	3969.0	3976.6	3877.4	3697.2	3496.9	3400.2	3411.5
42.5°	3883.0	3911.3	4019.9	4159.3	4240.9	4253.4	4137.3	3929.5	3721.7	3643.2	3655.8
45°	4105.3	4127.9	4253.4	4415.4	4517.1	4549.8	4412.3	4195.7	3964.7	3888.1	3891.2
47.5°	4260.4	4289.9	4428.0	4618.8	4767.0	4817.2	4682.2	4455.0	4203.9	4110.9	4119.1
50°	4401.0	4416.7	4556.7	4765.1	4953.5	5057.1	4941.5	4711.1	4445.6	4347.0	4355.8
52.5°	4479.5	4499.6	4635.2	4852.4	5075.3	5242.3	5171.9	4941.5	4679.1	4583.1	4593.7
55°	4424.8	4439.9	4602.5	4871.8	5150.6	5356.5	5367.2	5166.9	4908.3	4824.1	4854.3
57.5°	4176.2	4195.1	4393.5	4746.3	5160.0	5433.7	5514.1	5376.0	5122.3	5053.9	5071.5
60°	3787.6	3799.5	4011.1	4407.9	4976.7	5465.8	5607.6	5546.7	5332.0	5263.6	5287.5
62.5°	3095.1	3112.7	3365.7	3897.5	4589.3	5371.0	5698.1	5688.0	5527.3	5464.5	5485.9
65°	2115.7	2146.5	2426.5	3098.9	3992.3	5080.9	5780.3	5852.5	5699.9	5620.8	5649.1
67.5°	1277.6	1300.2	1503.0	2046.1	3054.9	4495.8	5695.5	6039.6	5821.7	5694.3	5717.5
68°	1142.0	1162.7	1332.2	1846.4	2825.8	4330.7	5618.3	6060.9	5834.9	5693.0	5713.7
70°	690.0	703.8	817.4	1141.4	1884.1	3435.4	5091.6	6043.4	5919.0	5710.6	5722.5
72.5°	449.5	453.9	472.7	585.8	962.4	1921.1	3821.5	5631.5	6045.2	5812.9	5811.1
75°	373.6	371.0	372.9	386.1	474.6	842.5	2233.1	4448.7	5762.7	5651.6	5612.0
77.5°	315.8	313.9	313.3	313.9	317.7	406.8	969.3	2771.2	4409.8	4999.3	5034.5
80°	255.5	253.0	261.2	257.4	246.1	253.0	406.2	1152.7	2078.7	2236.3	2095.6
82.5°	185.8	176.4	211.6	201.5	192.1	178.3	224.1	372.3	496.0	340.3	239.2
85°	143.1	133.1	160.7	154.4	131.8	91.0	133.1	182.1	200.9	114.9	90.4
87.5°	58.4	61.5	116.1	91.7	77.2	43.9	54.6	72.8	97.9	49.0	37.7
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)