

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: P317298

Luminaire Tested: **GAN-SA4D-830-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317298
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-SA4D-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25424 lumens
Efficiency: N/A
Efficacy: 98.5 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): 258
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

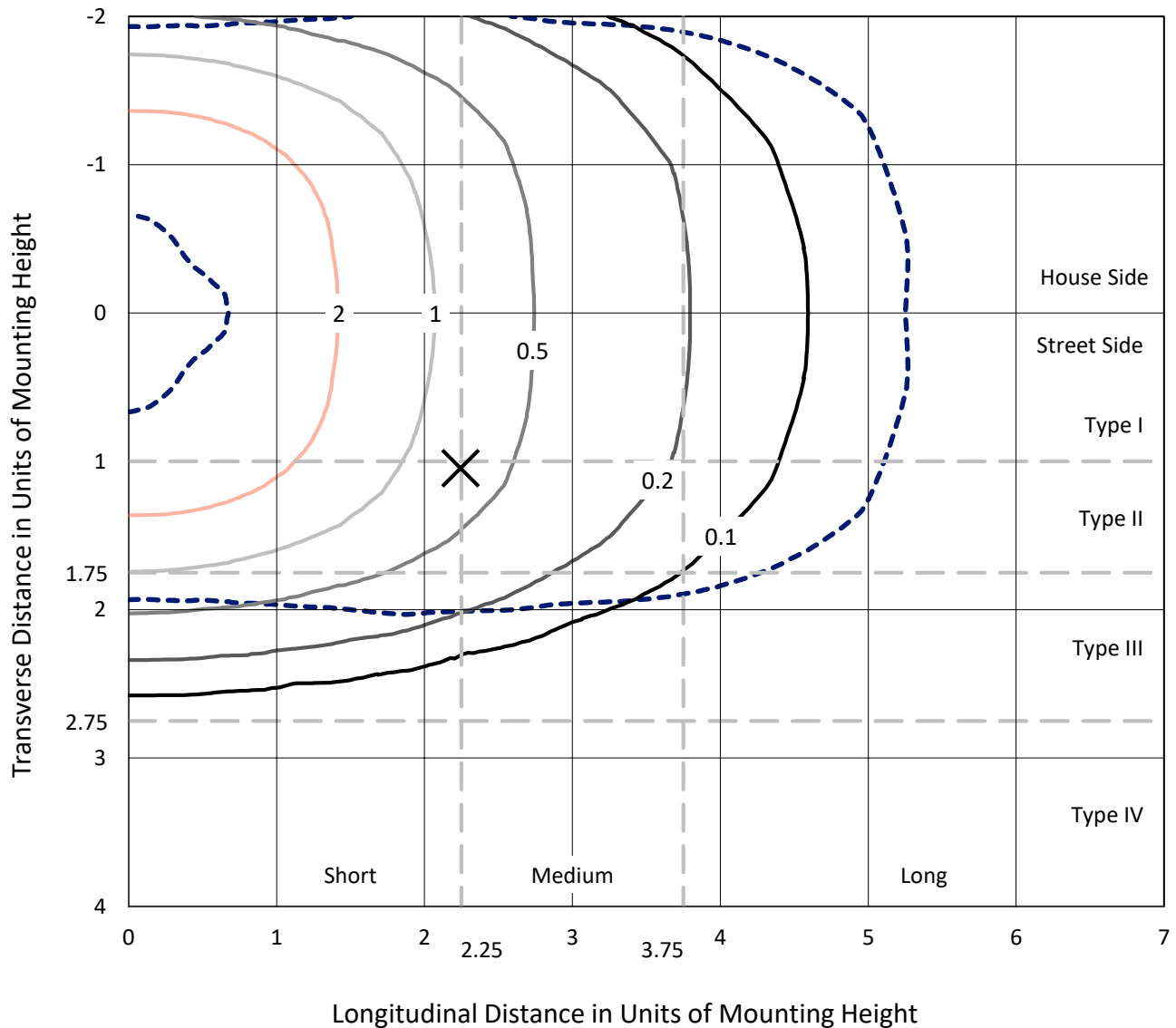


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Iso-Footcandle Lines of Horizontal Illumination

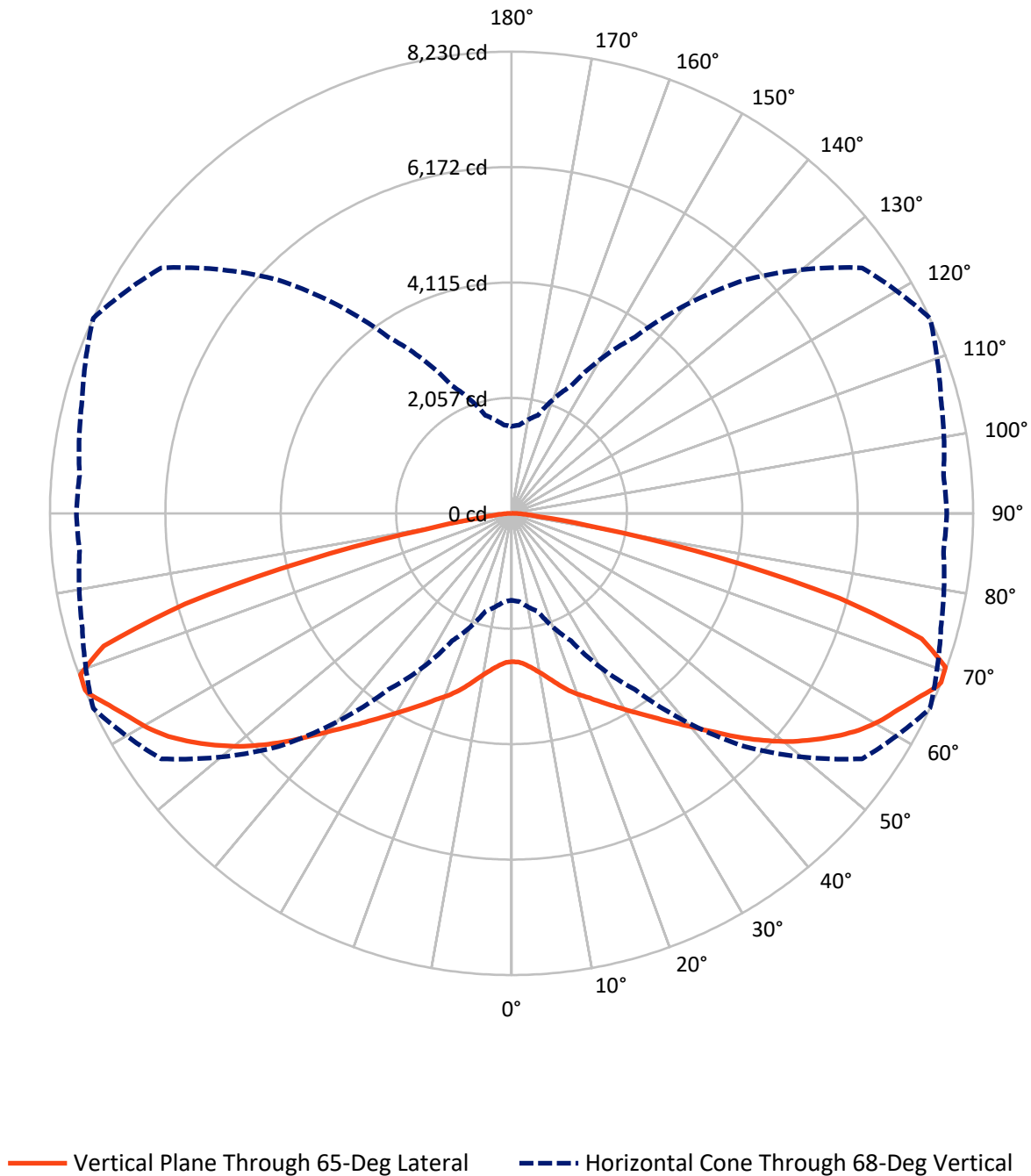
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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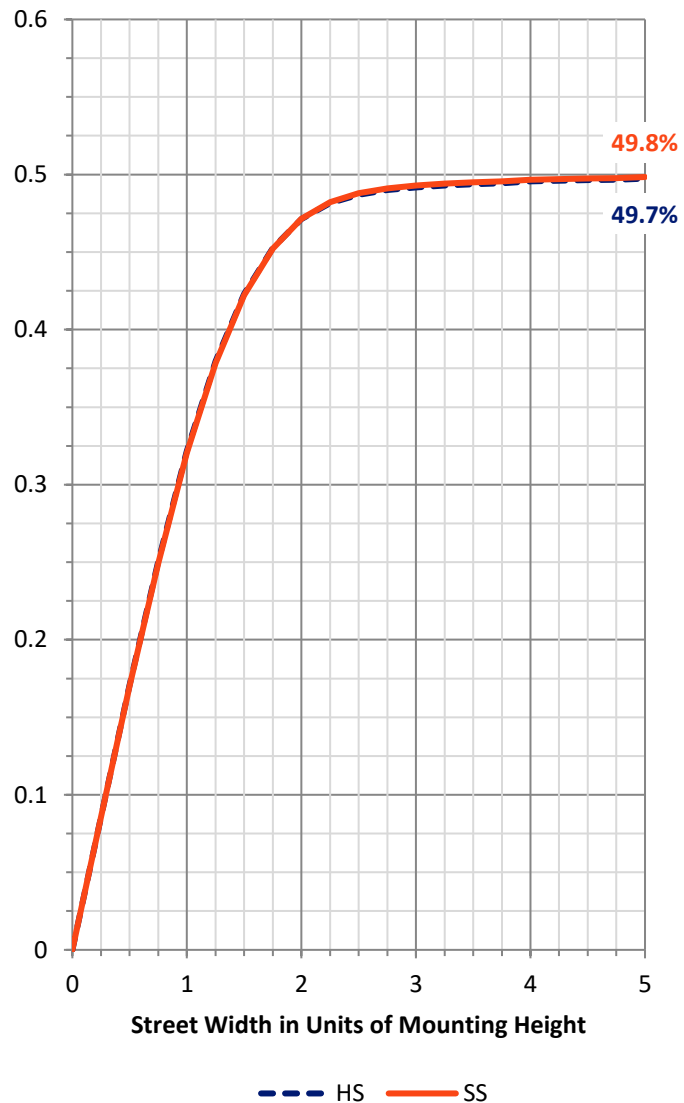
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12712.0	0.0	12712.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12712.0	0.0	12712.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25424.0	0.0	25424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.8	1.0
10°-20°	866.6	3.4
20°-30°	1689.7	6.6
30°-40°	2838.6	11.2
40°-50°	4472.6	17.6
50°-60°	5981.3	23.5
60°-70°	5814.6	22.9
70°-80°	3178.5	12.5
80°-90°	323.3	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°	25424.0	100.0
0°-180°	25424.0	100.0

Coefficient of Utilization



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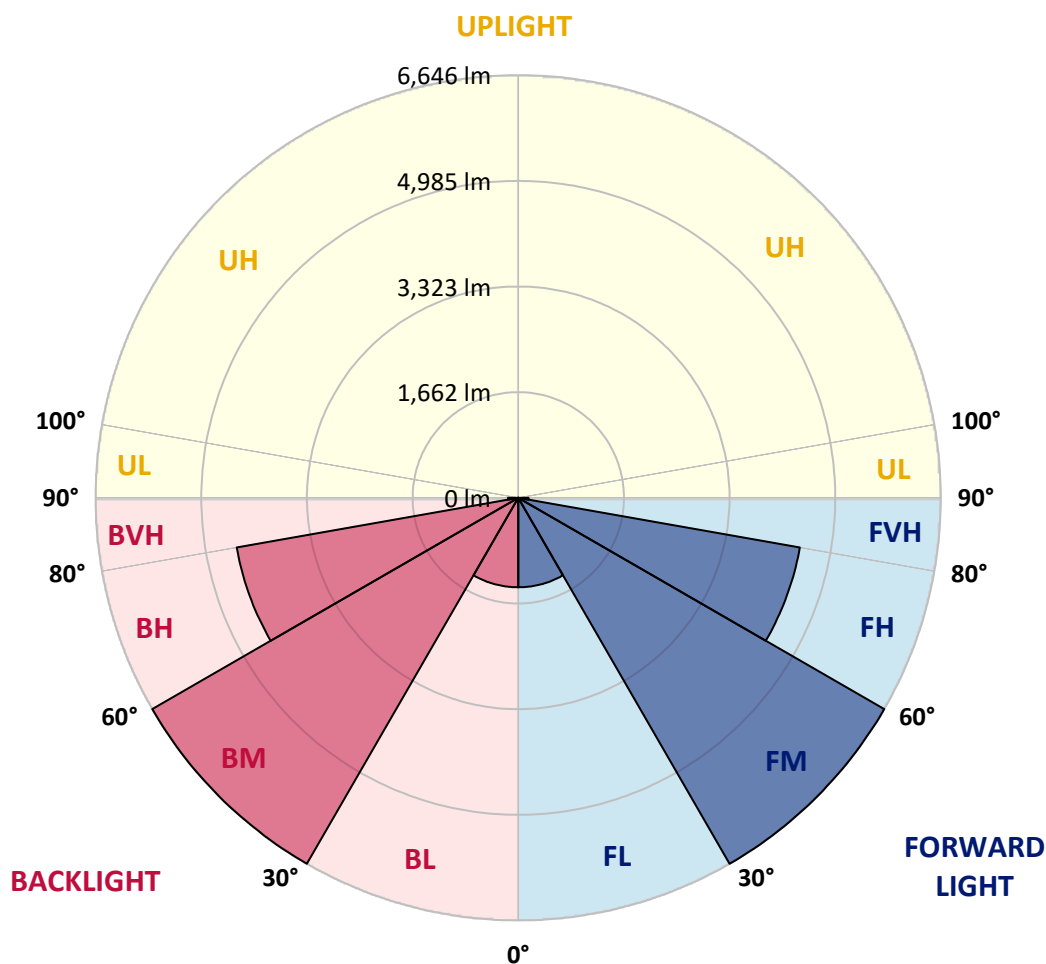
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1407.6	5.5			
FM	(30°-60°)	6646.2	26.1			
FH	(60°-80°)	4496.6	17.7			G2/5000
FVH	(80°-90°)	161.6	0.6			G2/225
BL	(0°-30°)	1407.6	5.5	B3/2500		
BM	(30°-60°)	6646.2	26.1	B4/8500		
BH	(60°-80°)	4496.6	17.7	B4/5000		G4/5000
BVH	(80°-90°)	161.6	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°	2643.5	2643.5	2643.5	2643.5	2643.5	2643.5	2643.5	2643.5	2643.5	2643.5	2643.5
2.5°	2624.7	2625.6	2629.9	2635.0	2639.2	2650.3	2652.9	2657.1	2658.8	2663.1	2663.1
5°	2601.7	2603.4	2613.7	2627.3	2642.6	2669.9	2689.5	2711.7	2722.8	2734.7	2733.9
7.5°	2599.2	2603.4	2617.9	2640.1	2665.7	2710.8	2751.8	2796.1	2825.9	2853.2	2851.5
10°	2625.6	2632.4	2652.9	2686.1	2724.5	2780.7	2841.3	2900.9	2952.9	2994.7	2996.4
12.5°	2665.7	2674.2	2706.6	2756.9	2814.8	2887.3	2958.9	3026.3	3097.9	3160.1	3165.2
15°	2718.5	2729.6	2778.2	2853.2	2941.9	3028.0	3104.7	3173.7	3256.4	3342.5	3351.0
17.5°	2796.9	2812.3	2876.2	2977.7	3094.5	3189.1	3269.2	3321.2	3390.3	3478.9	3495.1
20°	2916.3	2935.9	3016.9	3137.9	3280.3	3379.2	3440.6	3451.6	3485.7	3565.0	3583.8
22.5°	3071.4	3088.5	3178.8	3322.9	3482.3	3589.7	3622.1	3577.8	3574.4	3638.3	3656.2
25°	3244.5	3259.8	3364.7	3526.7	3698.0	3816.5	3815.6	3729.5	3669.9	3719.3	3738.1
27.5°	3438.8	3462.7	3563.3	3733.8	3917.1	4033.9	4027.1	3894.1	3780.7	3793.5	3809.7
30°	3662.2	3688.6	3786.7	3959.7	4143.0	4257.2	4248.7	4073.1	3902.6	3868.5	3880.4
32.5°	3939.2	3970.8	4063.7	4234.2	4396.2	4499.3	4474.6	4267.4	4049.2	3975.1	3986.1
35°	4272.6	4291.3	4389.3	4557.3	4688.6	4759.3	4707.3	4492.5	4235.1	4145.5	4145.5
37.5°	4610.1	4624.6	4734.6	4897.4	5024.4	5061.9	4960.5	4738.9	4478.0	4351.0	4353.5
40°	4934.1	4973.3	5096.9	5264.0	5389.3	5399.5	5264.8	5020.2	4748.2	4617.0	4632.3
42.5°	5272.5	5310.9	5458.3	5647.6	5758.4	5775.5	5617.8	5335.6	5053.4	4946.9	4963.9
45°	5574.3	5605.0	5775.5	5995.4	6133.5	6177.8	5991.1	5697.0	5383.3	5279.3	5283.6
47.5°	5784.8	5824.9	6012.4	6271.6	6472.8	6541.0	6357.7	6049.1	5708.1	5581.9	5593.0
50°	5975.8	5997.1	6187.2	6470.2	6726.0	6866.6	6709.8	6396.9	6036.3	5902.5	5914.4
52.5°	6082.3	6109.6	6293.8	6588.7	6891.3	7118.1	7022.6	6709.8	6353.4	6223.0	6237.5
55°	6008.2	6028.6	6249.4	6615.1	6993.6	7273.2	7287.7	7015.8	6664.6	6550.4	6591.3
57.5°	5670.6	5696.2	5965.6	6444.6	7006.4	7378.1	7487.2	7299.7	6955.3	6862.4	6886.2
60°	5142.9	5159.1	5446.4	5985.2	6757.5	7421.6	7614.2	7531.5	7240.0	7147.1	7179.5
62.5°	4202.7	4226.5	4570.1	5292.1	6231.5	7292.8	7737.0	7723.3	7505.1	7419.9	7448.8
65°	2872.8	2914.6	3294.8	4207.8	5420.8	6899.0	7848.7	7946.7	7739.5	7632.1	7670.5
67.5°	1734.8	1765.5	2040.8	2778.2	4148.1	6104.5	7733.6	8200.7	7904.9	7731.9	7763.4
68°	1550.6	1578.8	1808.9	2507.1	3837.0	5880.3	7628.7	8229.7	7922.8	7730.2	7758.3
70°	936.9	955.6	1109.9	1549.8	2558.3	4664.7	6913.5	8205.8	8037.1	7754.0	7770.2
72.5°	610.4	616.3	641.9	795.4	1306.8	2608.5	5189.0	7646.6	8208.4	7893.0	7890.4
75°	507.2	503.8	506.4	524.3	644.5	1144.0	3032.2	6040.6	7824.8	7673.9	7620.2
77.5°	428.8	426.2	425.4	426.2	431.3	552.4	1316.2	3762.8	5987.7	6788.2	6835.9
80°	347.0	343.5	354.6	349.5	334.2	343.5	551.5	1565.1	2822.5	3036.5	2845.5
82.5°	252.3	239.5	287.3	273.6	260.9	242.1	304.3	505.5	673.4	462.0	324.8
85°	194.4	180.7	218.2	209.7	179.0	123.6	180.7	247.2	272.8	156.0	122.8
87.5°	79.3	83.5	157.7	124.5	104.9	59.7	74.2	98.9	133.0	66.5	51.1
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)