

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: P841522

Luminaire Tested: **ARCH4-190-730-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-190-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29271 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G3

Input Watts (W): 190
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

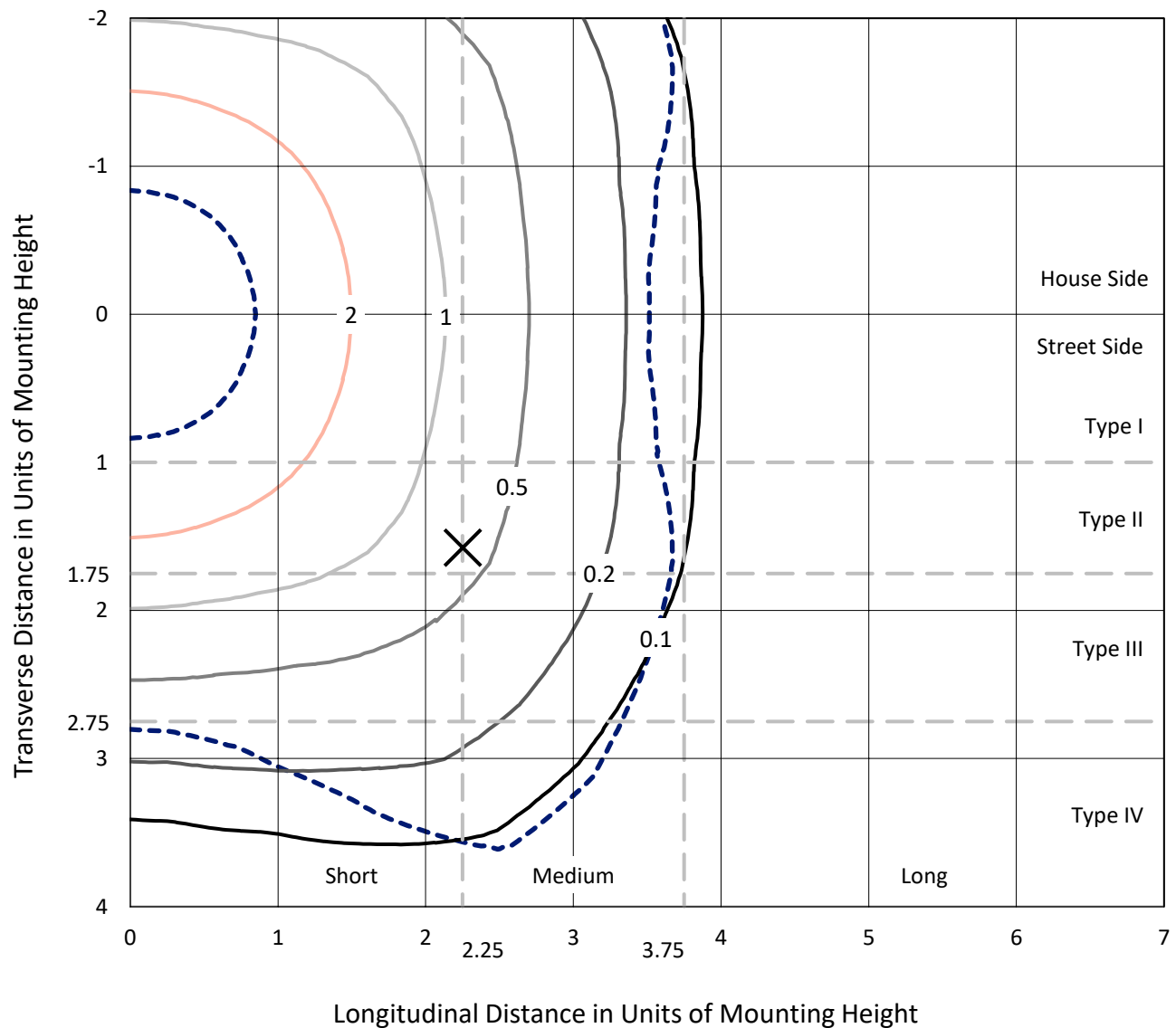


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Iso-Footcandle Lines of Horizontal Illumination

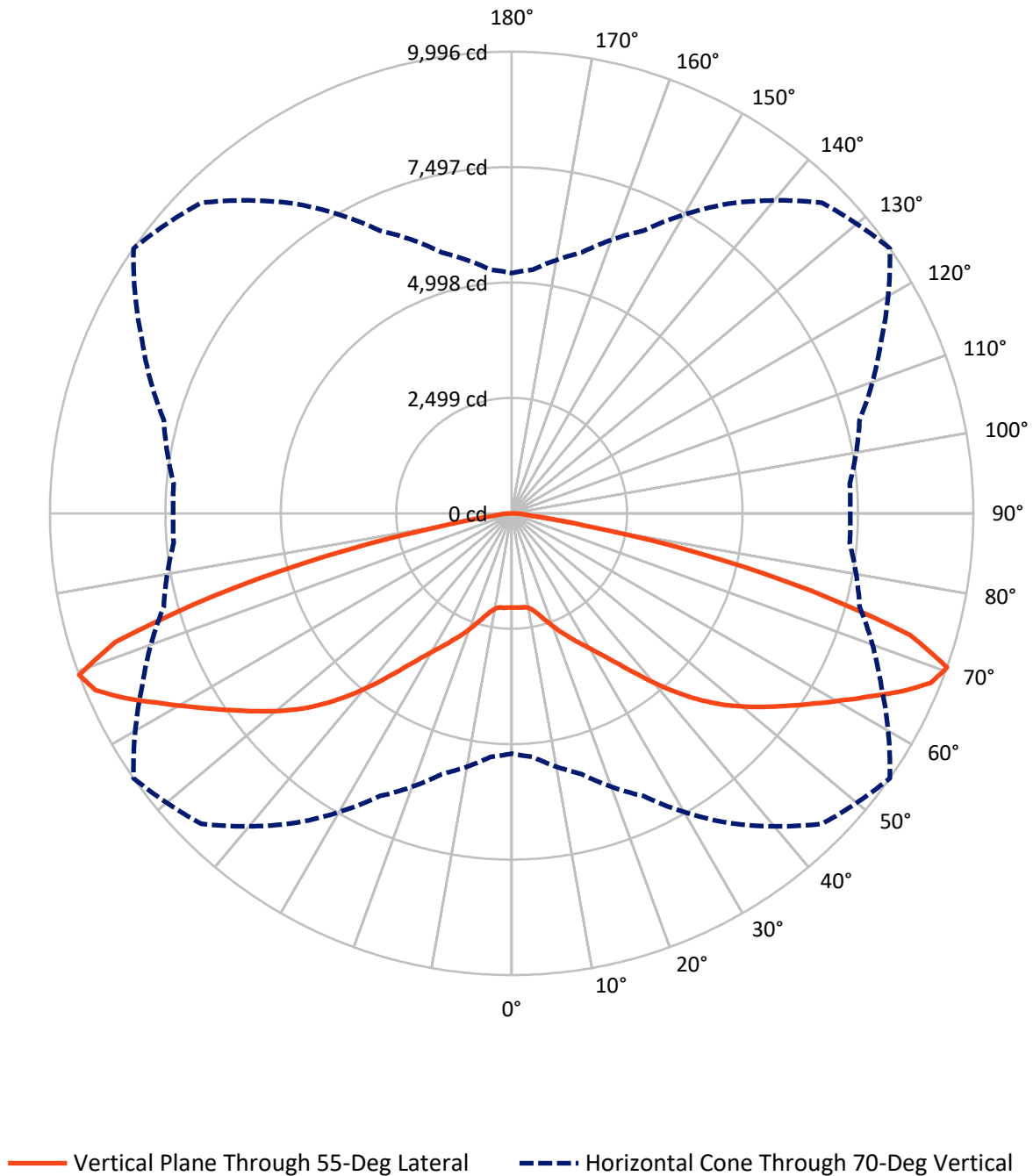
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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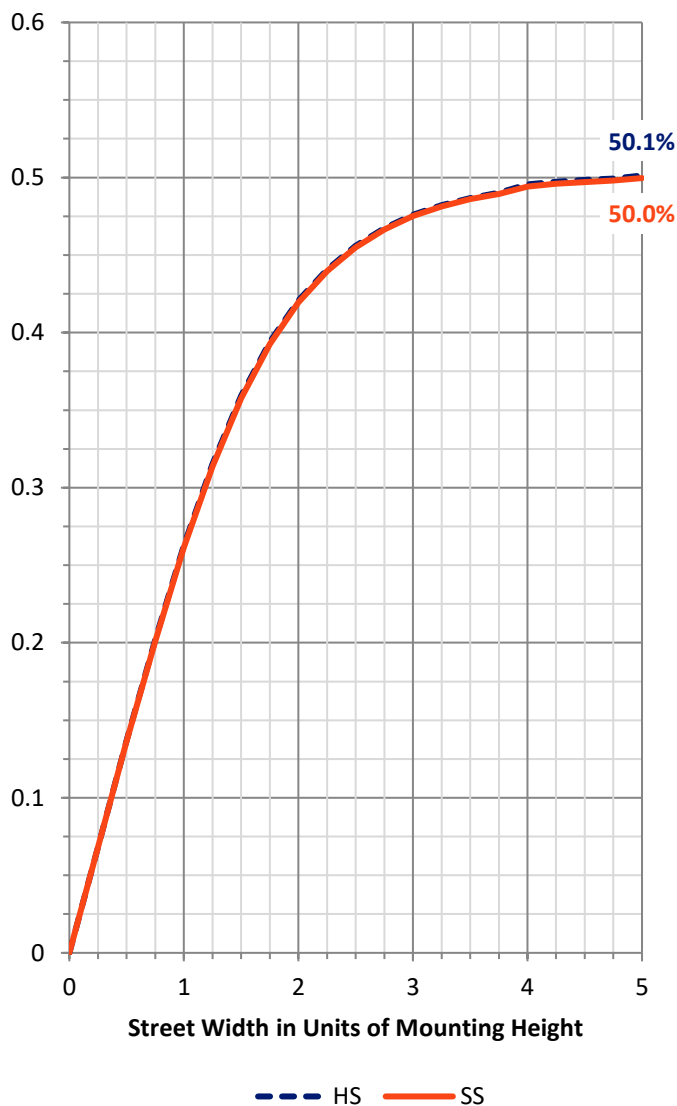
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14635.5	0.0	14635.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14635.5	0.0	14635.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29271.0	0.0	29271.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.0	0.7
10°-20°	670.4	2.3
20°-30°	1393.1	4.8
30°-40°	2572.9	8.8
40°-50°	4520.0	15.4
50°-60°	6518.9	22.3
60°-70°	7978.4	27.3
70°-80°	5076.9	17.3
80°-90°	343.5	1.2
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°	29271.0	100.0
0°-180°	29271.0	100.0

Coefficient of Utilization



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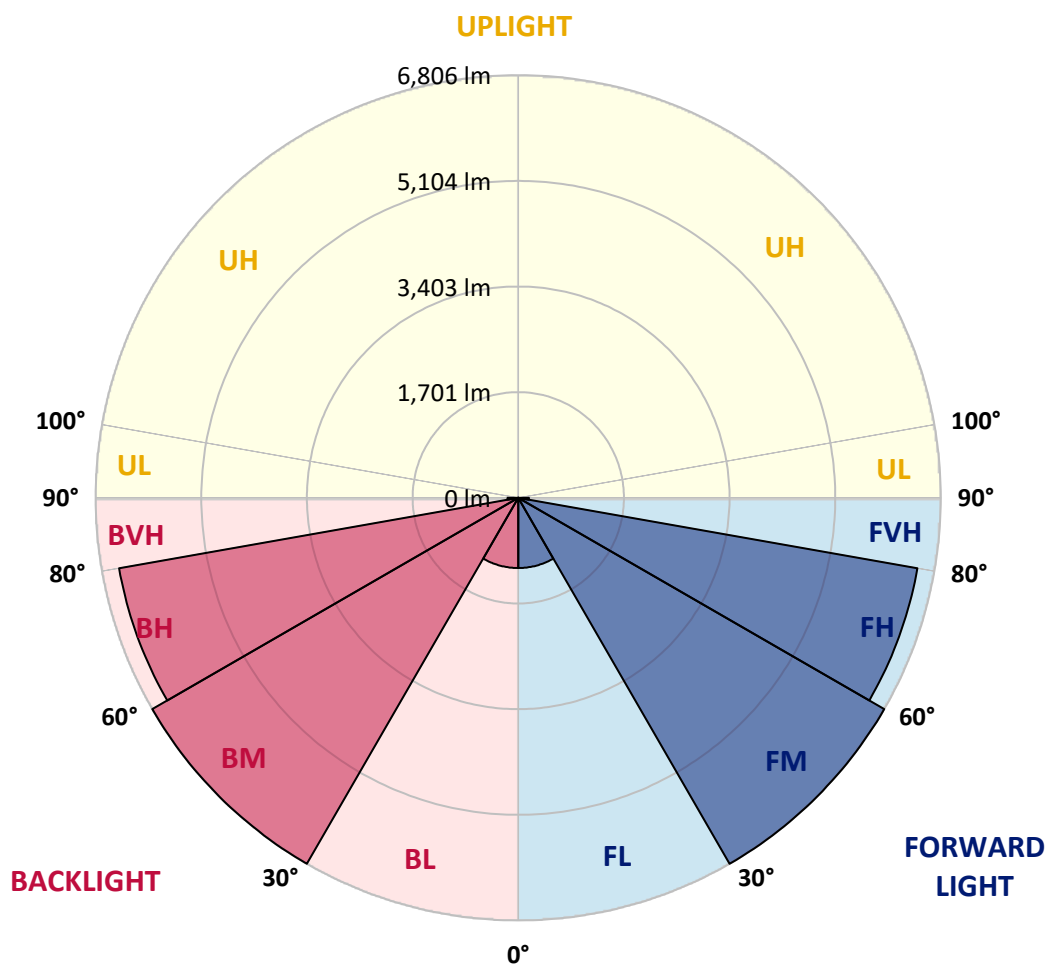
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1130.2	3.9			
FM	(30°-60°)	6805.9	23.3			
FH	(60°-80°)	6527.6	22.3			G3/7500
FVH	(80°-90°)	171.8	0.6			G2/225
BL	(0°-30°)	1130.2	3.9	B3/2500		
BM	(30°-60°)	6805.9	23.3	B4/8500		
BH	(60°-80°)	6527.6	22.3	B5		G3/7500
BVH	(80°-90°)	171.8	0.6			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5
2.5°	2067.7	2067.7	2062.2	2062.2	2051.3	2045.9	2040.5	2040.5	2035.0	2035.0	2029.6
5°	2078.6	2078.6	2078.6	2073.1	2067.7	2062.2	2051.3	2040.5	2035.0	2029.6	2024.1
7.5°	2084.0	2084.0	2078.6	2078.6	2073.1	2067.7	2051.3	2035.0	2029.6	2024.1	2024.1
10°	2127.5	2122.1	2116.6	2105.8	2105.8	2105.8	2084.0	2067.7	2062.2	2062.2	2062.2
12.5°	2230.9	2225.5	2214.6	2198.3	2198.3	2203.7	2171.1	2149.3	2149.3	2143.8	2143.8
15°	2383.3	2377.8	2366.9	2339.7	2334.3	2345.2	2296.2	2274.4	2274.4	2274.4	2269.0
17.5°	2551.9	2541.1	2524.7	2503.0	2503.0	2503.0	2454.0	2426.8	2410.5	2410.5	2405.0
20°	2693.4	2688.0	2688.0	2682.5	2698.9	2698.9	2633.6	2590.0	2551.9	2530.2	2524.7
22.5°	2818.6	2813.1	2824.0	2845.8	2878.4	2889.3	2813.1	2747.8	2688.0	2644.4	2633.6
25°	2987.2	2981.8	2976.4	3009.0	3063.4	3079.7	2998.1	2916.5	2856.7	2834.9	2824.0
27.5°	3166.8	3172.2	3177.7	3210.3	3253.9	3281.1	3199.4	3123.3	3074.3	3041.7	3030.8
30°	3368.1	3379.0	3395.3	3444.3	3477.0	3487.8	3417.1	3362.7	3319.2	3291.9	3275.6
32.5°	3623.9	3645.6	3667.4	3710.9	3727.2	3716.4	3683.7	3645.6	3613.0	3574.9	3569.5
35°	4004.8	4026.5	4021.1	4037.4	4042.8	4032.0	4015.6	3993.9	3977.5	3928.6	3923.1
37.5°	4483.6	4505.3	4472.7	4456.4	4418.3	4423.7	4418.3	4434.6	4440.1	4391.1	4385.6
40°	4967.9	4989.6	4946.1	4902.6	4864.5	4848.1	4875.4	4929.8	4929.8	4897.1	4897.1
42.5°	5484.8	5501.1	5430.4	5375.9	5327.0	5316.1	5332.4	5397.7	5414.0	5408.6	5408.6
45°	6001.7	5990.8	5898.3	5843.9	5800.4	5773.2	5778.6	5827.6	5860.2	5876.5	5876.5
47.5°	6398.9	6382.6	6306.4	6262.9	6235.7	6197.6	6197.6	6224.8	6241.1	6246.5	6246.5
50°	6714.5	6698.2	6622.0	6616.5	6616.5	6600.2	6583.9	6578.5	6567.6	6573.0	6573.0
52.5°	6986.6	6964.8	6910.4	6921.3	6970.2	6981.1	6959.3	6915.8	6872.3	6856.0	6861.4
55°	7280.4	7247.7	7204.2	7236.8	7334.8	7378.3	7345.7	7258.6	7182.4	7133.5	7133.5
57.5°	7514.4	7476.3	7476.3	7568.8	7748.3	7835.4	7764.6	7601.4	7470.8	7416.4	7421.9
60°	7351.1	7318.5	7449.1	7857.1	8194.5	8341.4	8221.7	7933.3	7721.1	7655.8	7666.7
62.5°	7030.1	7008.3	7171.6	7802.7	8597.2	8901.9	8722.3	8308.8	7993.2	7917.0	7917.0
65°	6556.7	6551.3	6779.8	7557.9	8689.7	9440.6	9288.2	8716.9	8308.8	8205.4	8227.2
67.5°	6067.0	6067.0	6273.7	7138.9	8580.8	9669.1	9788.8	9086.9	8461.1	8205.4	8210.8
70°	5201.8	5294.3	5843.9	6752.6	8183.6	9505.8	9995.6	8825.7	7797.3	7345.7	7329.3
72.5°	3428.0	3547.7	4641.4	6077.9	7791.9	8912.8	9021.6	7753.8	6475.1	5947.3	5920.1
75°	2067.7	2171.1	3009.0	4744.8	6850.5	7177.0	6698.2	6077.9	4837.3	4423.7	4423.7
77.5°	609.4	680.2	1387.5	3009.0	4739.3	4717.6	4129.9	3580.3	2862.1	2432.2	2464.9
80°	359.1	370.0	451.6	1371.2	1964.3	2067.7	1594.3	995.7	995.7	740.0	718.2
82.5°	277.5	277.5	288.4	342.8	473.4	527.8	402.7	342.8	391.8	331.9	315.6
85°	195.9	195.9	195.9	201.3	206.8	212.2	223.1	228.5	250.3	206.8	195.9
87.5°	59.9	65.3	70.7	81.6	97.9	103.4	108.8	97.9	97.9	92.5	87.1
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)