

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: LUMARK

Report Number: P967263

Luminaire Tested: **NAV-SB4D-750-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4D-750-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43751.1 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 293.6
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



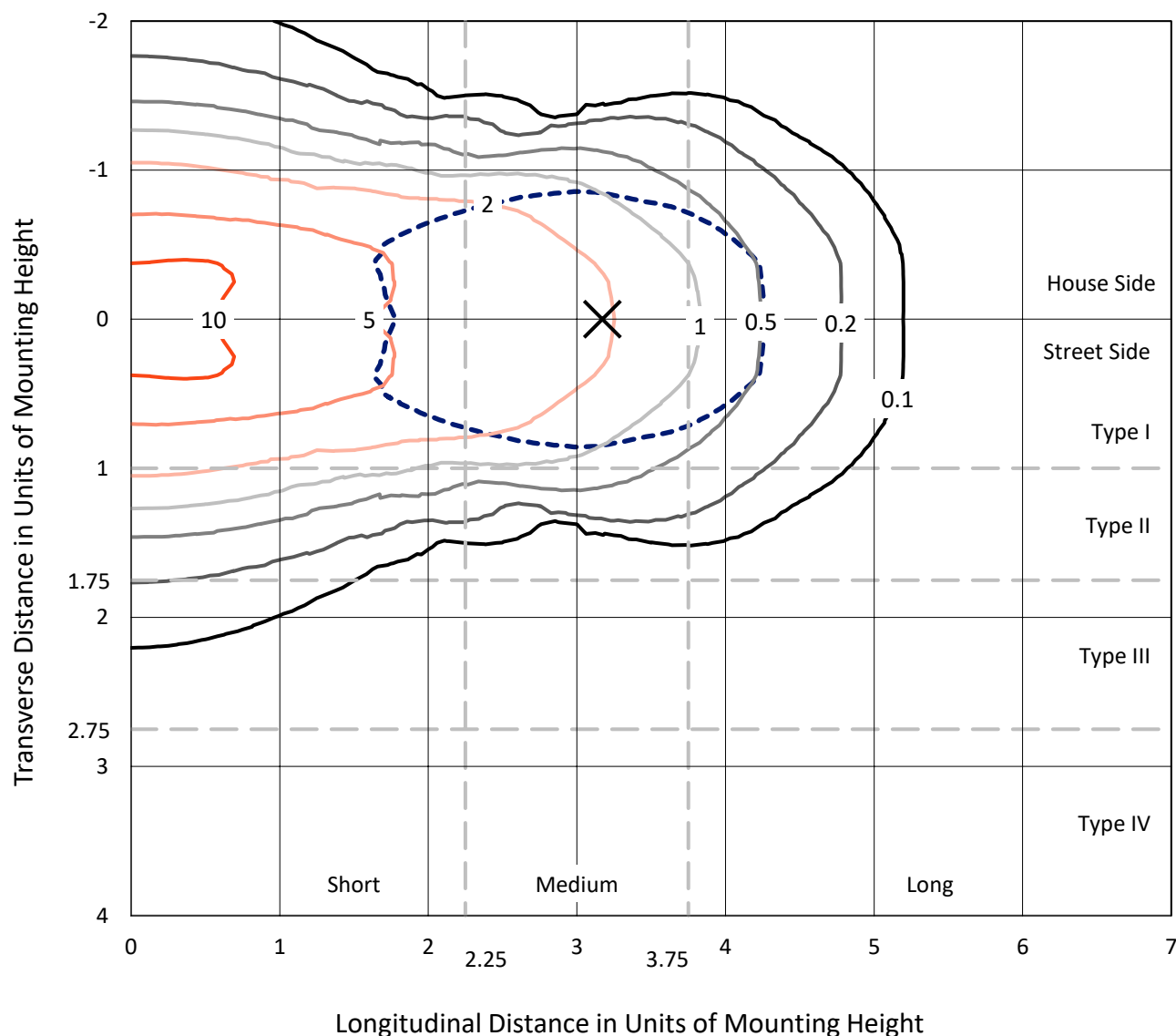
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

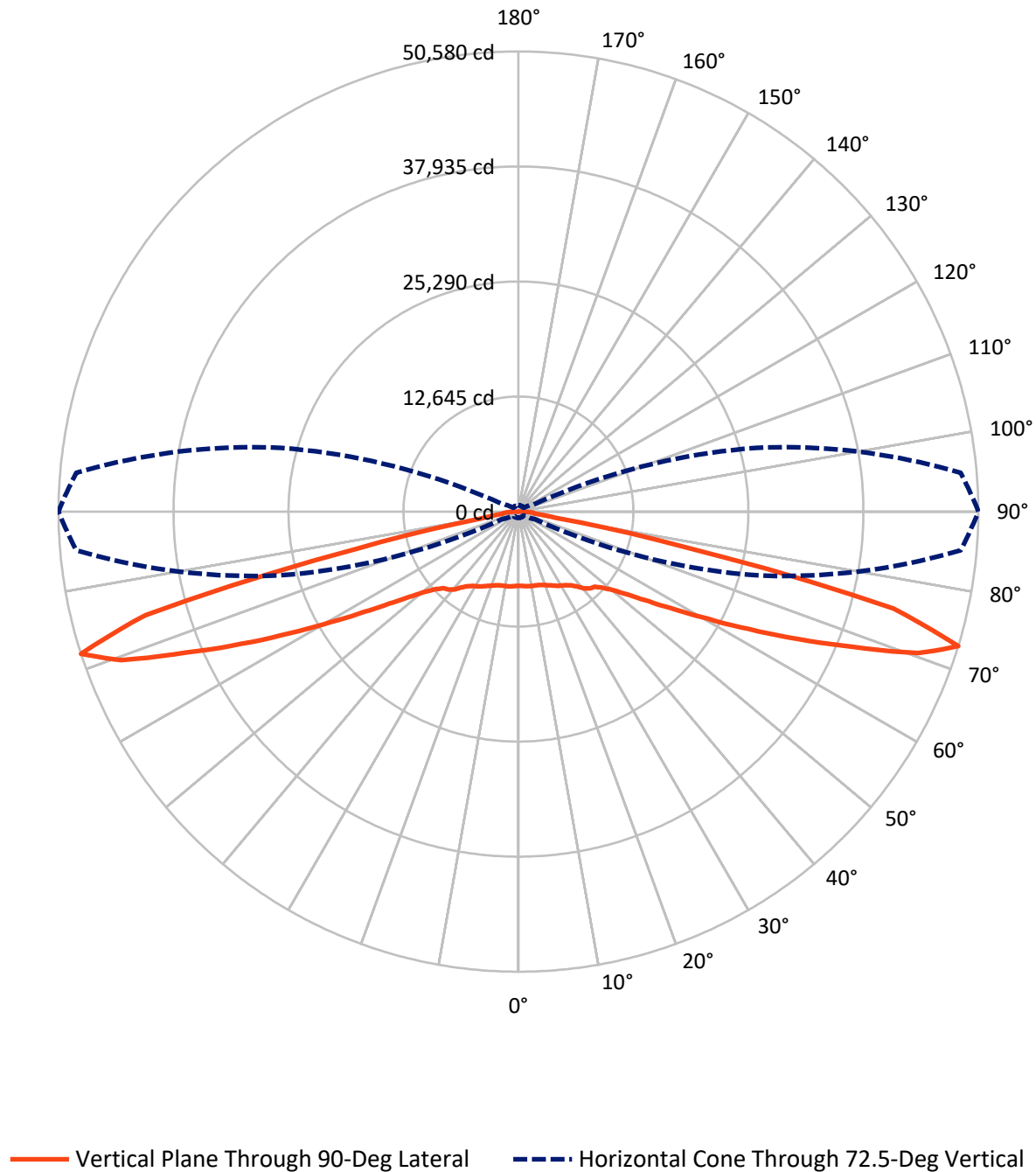


Based on 25 foot mounting height. Maximum calculated value = 13.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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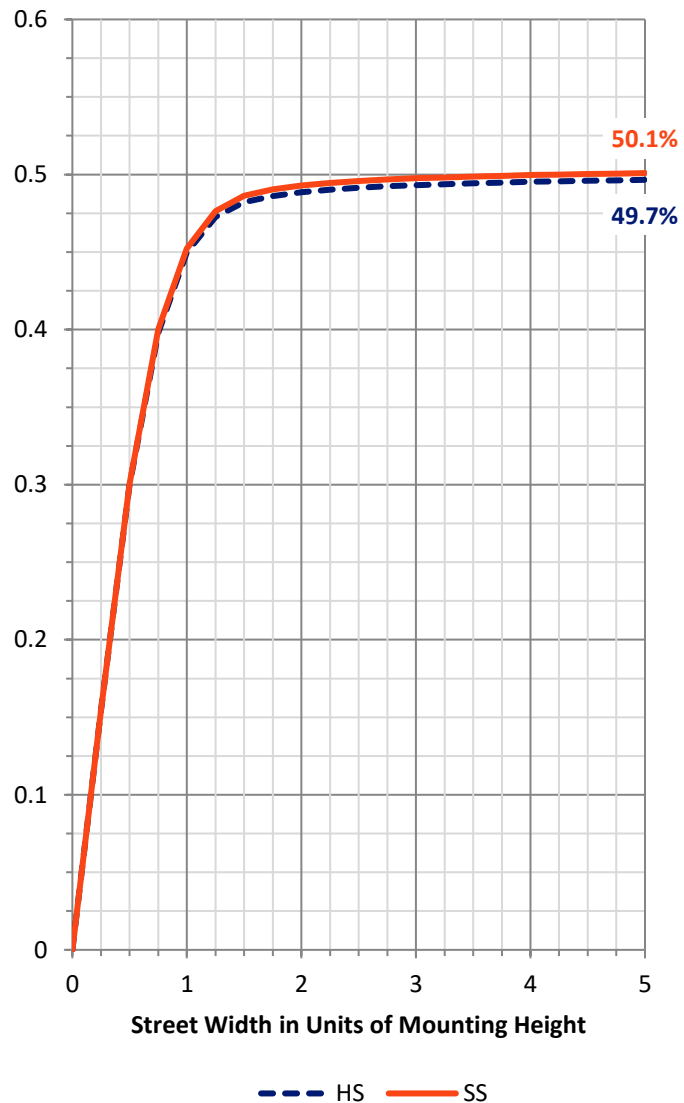
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21875.5	0.0	21875.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21875.5	0.0	21875.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	43751.1	0.0	43751.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	792.7	1.8
10°-20°	2423.8	5.5
20°-30°	4041.4	9.2
30°-40°	5558.2	12.7
40°-50°	6788.0	15.5
50°-60°	7851.1	17.9
60°-70°	9361.2	21.4
70°-80°	6533.5	14.9
80°-90°	401.3	0.9
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°	43751.1	100.0
0°-180°	43751.1	100.0

Coefficient of Utilization



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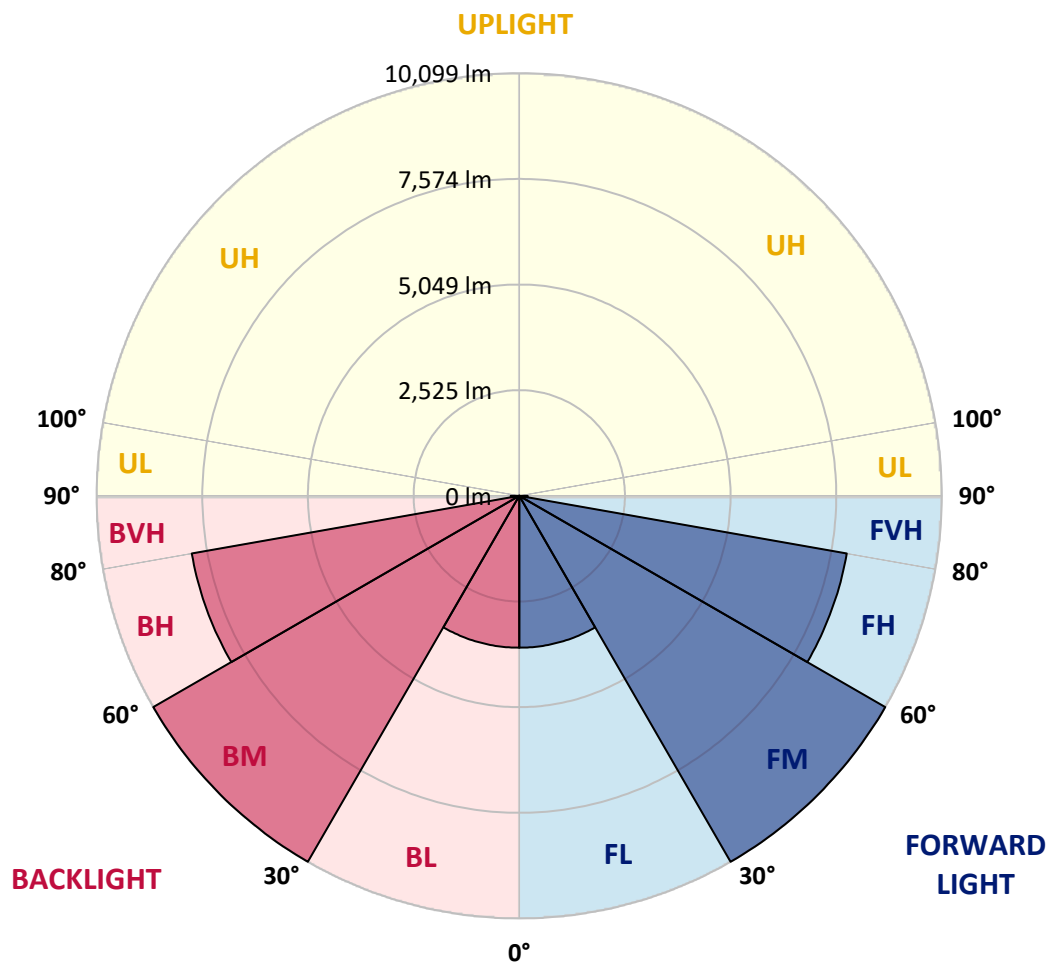
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3628.9	8.3			
FM	(30°-60°)	10098.7	23.1			
FH	(60°-80°)	7947.3	18.2			G4/12000
FVH	(80°-90°)	200.6	0.5			G2/225
BL	(0°-30°)	3628.9	8.3	B4/5000		
BM	(30°-60°)	10098.7	23.1	B5		
BH	(60°-80°)	7947.3	18.2	B5		G5
BVH	(80°-90°)	200.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8175.4	8175.4	8175.4	8175.4	8175.4	8175.4	8175.4	8175.4	8175.4	8175.4	8175.4
2.5°	8182.4	8191.6	8191.6	8184.6	8200.9	8187.0	8187.0	8180.0	8187.0	8180.0	8180.0
5°	8224.2	8235.8	8240.5	8238.1	8259.0	8247.5	8247.5	8238.1	8240.5	8233.5	8233.5
7.5°	8303.2	8319.5	8328.8	8340.4	8370.7	8356.7	8347.4	8319.5	8307.9	8289.3	8289.3
10°	8328.8	8347.4	8377.6	8438.1	8507.8	8510.2	8482.3	8412.5	8359.1	8317.2	8310.2
12.5°	8249.7	8275.3	8338.1	8461.4	8617.2	8679.9	8635.7	8519.5	8414.8	8340.4	8328.8
15°	8149.8	8177.7	8273.0	8459.0	8689.2	8835.7	8831.1	8677.5	8510.2	8393.9	8375.3
17.5°	7994.0	8021.9	8159.1	8419.5	8745.0	8986.9	9052.0	8893.8	8659.0	8503.2	8477.7
20°	7712.6	7738.2	7928.9	8293.9	8763.6	9147.3	9317.0	9177.5	8884.5	8672.9	8633.4
22.5°	7347.6	7387.1	7610.3	8077.7	8719.5	9314.7	9619.3	9524.0	9147.3	8854.4	8800.9
25°	6957.0	6998.8	7259.3	7812.7	8605.5	9435.6	9977.3	9916.9	9444.9	9079.9	9005.4
27.5°	6619.8	6663.9	6947.7	7549.8	8428.8	9482.1	10330.8	10361.0	9805.4	9328.6	9249.6
30°	6354.7	6396.6	6698.9	7338.3	8200.9	9435.6	10640.0	10849.3	10172.7	9544.9	9430.9
32.5°	6064.1	6117.6	6436.1	7080.2	7931.2	9324.0	10909.8	11377.1	10598.2	9777.4	9633.3
35°	5696.7	5745.5	6080.4	6726.8	7577.8	9144.9	11135.3	11963.1	11207.3	10130.8	9970.4
37.5°	5250.3	5296.8	5629.3	6285.0	7226.7	8893.8	11307.4	12623.4	11932.8	10640.0	10426.1
40°	4801.5	4845.7	5157.3	5792.1	6805.8	8573.0	11367.9	13269.9	12765.2	11339.9	11112.0
42.5°	4390.0	4429.4	4715.5	5306.1	6333.8	8163.7	11288.7	13832.6	13511.7	11828.2	11535.2
45°	4010.9	4045.8	4299.3	4850.3	5843.2	7666.2	11051.7	14437.1	14399.9	12177.0	11781.8
47.5°	3578.5	3613.3	3876.0	4408.5	5352.5	7082.5	10649.3	15032.3	15634.5	12967.6	12511.9
50°	3050.6	3080.8	3350.6	3899.3	4843.3	6461.7	10091.3	15499.7	17192.4	14165.0	13593.0
52.5°	2425.1	2457.7	2720.5	3269.2	4238.8	5794.3	9356.5	15804.3	18992.1	15913.5	15209.1
55°	1804.3	1827.6	2055.4	2548.4	3490.1	5034.0	8435.8	15890.4	21033.6	18303.8	17422.6
57.5°	1309.1	1323.1	1469.5	1836.9	2646.0	4083.0	7317.4	15667.1	23463.5	21368.5	20259.3
60°	1060.3	1065.0	1109.2	1271.9	1839.3	3008.8	5966.4	14899.8	26100.2	25318.9	23921.6
62.5°	962.6	962.6	974.3	1018.4	1243.9	1985.7	4331.9	13309.3	28927.7	30311.1	28439.3
65°	895.2	895.2	899.8	920.8	981.2	1265.0	2734.4	10719.1	31311.0	36158.9	33791.9
67.5°	834.8	837.1	834.8	841.7	876.6	934.7	1585.8	7403.4	32594.5	42218.4	39663.0
70°	771.9	776.6	765.0	765.0	792.8	795.2	992.8	4059.8	31529.5	47296.6	46624.6
72.5°	697.5	704.5	685.9	681.3	702.2	692.9	746.4	1948.5	27069.8	48812.7	50579.8
75°	632.4	641.8	599.9	588.2	588.2	581.3	606.9	999.8	17569.1	39818.8	42590.4
77.5°	574.3	593.0	525.5	488.3	479.0	458.1	495.3	611.5	7684.7	18694.5	18306.2
80°	474.4	499.9	432.4	388.3	372.1	348.8	390.6	427.8	2285.6	4341.1	4157.4
82.5°	353.4	365.1	306.9	276.6	262.7	246.5	292.9	297.7	744.0	1537.0	1737.0
85°	225.5	230.2	188.3	162.8	155.8	148.8	186.0	162.8	283.7	1130.1	1641.5
87.5°	79.0	90.7	72.1	65.1	69.8	58.1	86.0	48.8	79.0	797.6	988.2
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)