

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: P968906

Luminaire Tested: **NAV-SB5C-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968906
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-SB5C-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33356.6 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

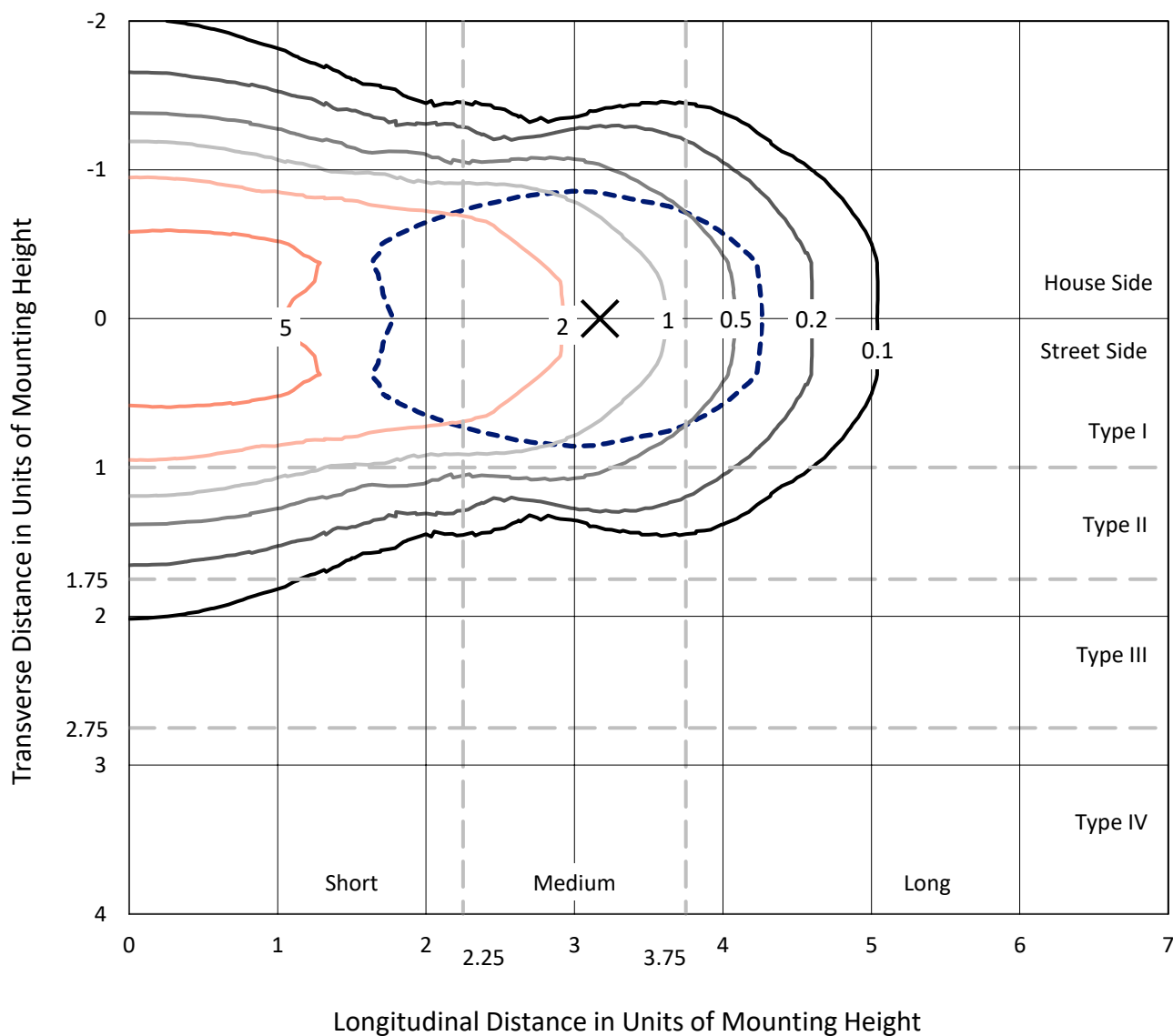
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P968906
 CATALOG NUMBER: NAV-SB5C-827-U-T1

Iso-Footcandle Lines of Horizontal Illumination

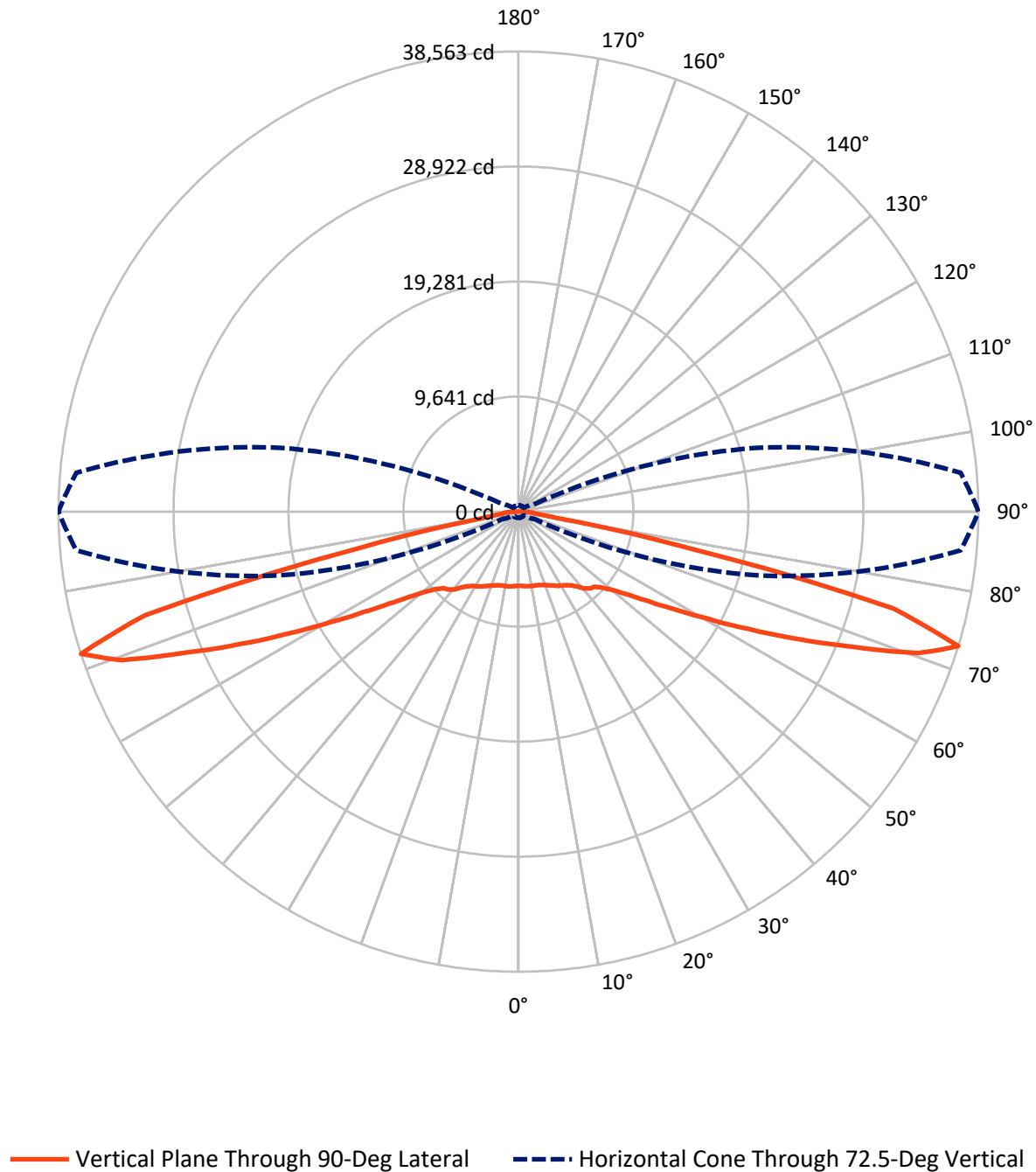
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type I - Short - N/A

REPORT NUMBER: P968906
CATALOG NUMBER: NAV-SB5C-827-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P968906

CATALOG NUMBER: NAV-SB5C-827-U-T1

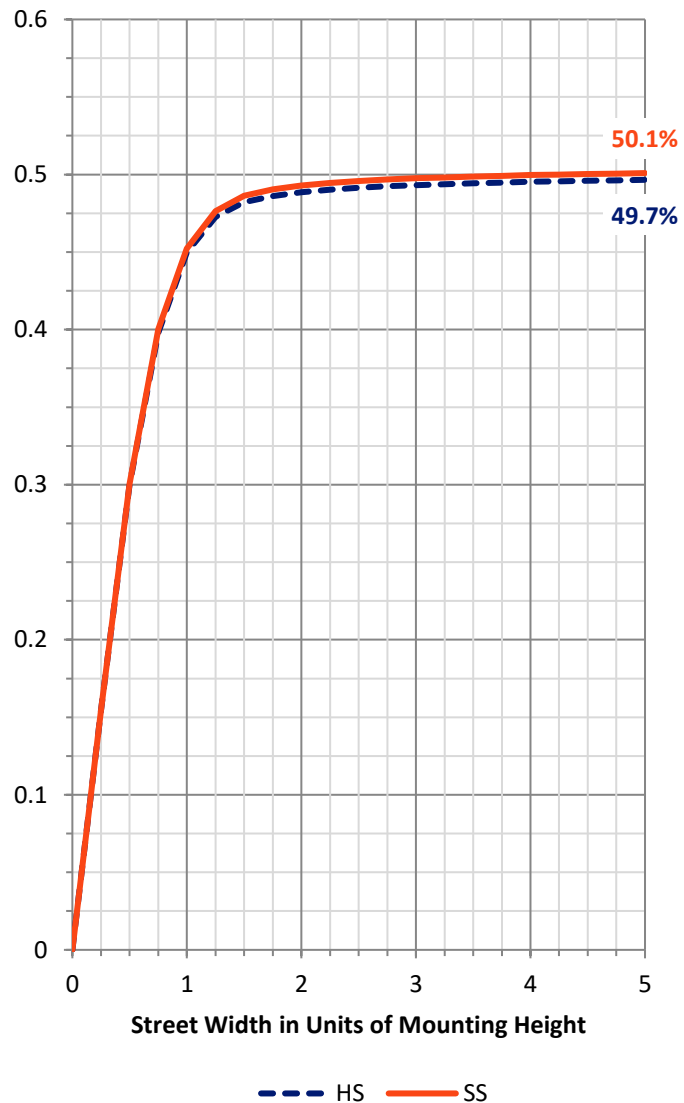
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16678.3	0.0	16678.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16678.3	0.0	16678.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	33356.6	0.0	33356.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.4	1.8
10°-20°	1847.9	5.5
20°-30°	3081.2	9.2
30°-40°	4237.7	12.7
40°-50°	5175.3	15.5
50°-60°	5985.8	17.9
60°-70°	7137.1	21.4
70°-80°	4981.2	14.9
80°-90°	305.9	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°	33356.6	100.0
0°-180°	33356.6	100.0

Coefficient of Utilization



REPORT NUMBER: P968906

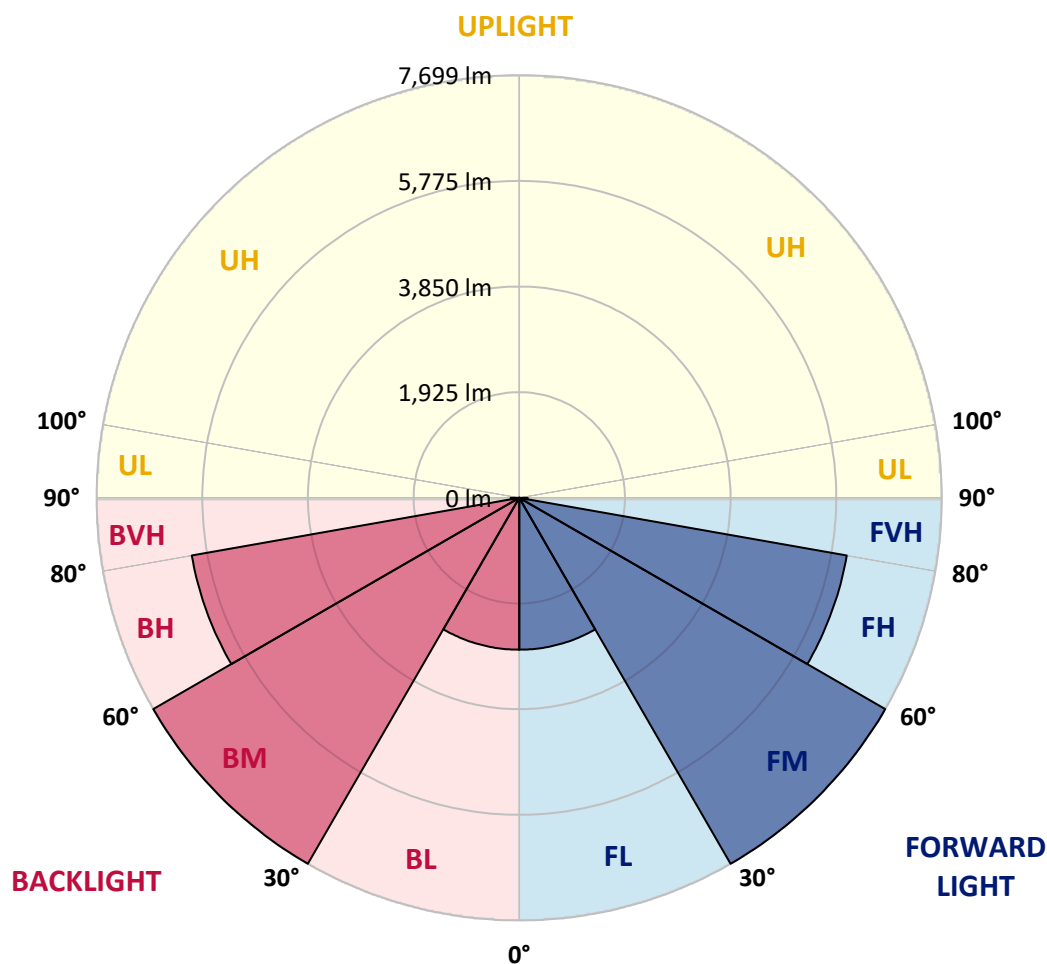
CATALOG NUMBER: NAV-SB5C-827-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2766.8	8.3			
FM	(30°-60°)	7699.4	23.1			
FH	(60°-80°)	6059.2	18.2			G3/7500
FVH	(80°-90°)	153.0	0.5			G2/225
BL	(0°-30°)	2766.8	8.3	B4/5000		
BM	(30°-60°)	7699.4	23.1	B4/8500		
BH	(60°-80°)	6059.2	18.2	B5		G5
BVH	(80°-90°)	153.0	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



REPORT NUMBER: P968906

CATALOG NUMBER: NAV-SB5C-827-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6233.0	6233.0	6233.0	6233.0	6233.0	6233.0	6233.0	6233.0	6233.0	6233.0	6233.0
2.5°	6238.4	6245.4	6245.4	6240.1	6252.5	6241.9	6241.9	6236.6	6241.9	6236.6	6236.6
5°	6270.2	6279.2	6282.6	6280.9	6296.9	6288.0	6288.0	6280.9	6282.6	6277.3	6277.3
7.5°	6330.5	6342.9	6350.1	6358.9	6382.0	6371.3	6364.2	6342.9	6334.1	6319.8	6319.8
10°	6350.1	6364.2	6387.3	6433.3	6486.5	6488.4	6467.0	6413.8	6373.0	6341.2	6335.8
12.5°	6289.7	6309.3	6357.2	6451.0	6569.8	6617.7	6584.0	6495.4	6415.6	6358.9	6350.1
15°	6213.5	6234.8	6307.4	6449.3	6624.8	6736.5	6732.9	6616.0	6488.4	6399.7	6385.4
17.5°	6094.8	6116.1	6220.6	6419.2	6667.3	6851.7	6901.3	6780.8	6601.7	6483.0	6463.4
20°	5880.2	5899.8	6045.1	6323.4	6681.6	6974.0	7103.5	6997.1	6773.7	6612.4	6582.2
22.5°	5601.9	5632.1	5802.2	6158.6	6647.8	7101.7	7333.9	7261.2	6974.0	6750.6	6709.9
25°	5304.1	5336.0	5534.6	5956.5	6561.0	7193.9	7606.9	7560.8	7200.9	6922.6	6865.9
27.5°	5047.1	5080.7	5297.0	5756.2	6426.2	7229.3	7876.4	7899.5	7475.7	7112.3	7052.0
30°	4845.0	4876.8	5107.4	5594.9	6252.5	7193.9	8112.2	8271.8	7755.9	7277.2	7190.3
32.5°	4623.4	4664.2	4907.0	5398.1	6046.9	7108.8	8317.8	8674.2	8080.3	7454.4	7344.5
35°	4343.2	4380.5	4635.8	5128.6	5777.4	6972.3	8489.8	9120.9	8544.7	7723.9	7601.6
37.5°	4002.9	4038.4	4291.9	4791.8	5509.8	6780.8	8621.0	9624.3	9097.8	8112.2	7949.1
40°	3660.8	3694.4	3932.0	4415.9	5188.9	6536.2	8667.0	10117.2	9732.5	8645.8	8472.0
42.5°	3346.9	3377.1	3595.2	4045.5	4829.0	6224.2	8606.7	10546.1	10301.6	9018.1	8794.7
45°	3058.0	3084.6	3277.8	3698.0	4455.0	5844.8	8425.9	11007.1	10978.7	9283.9	8982.6
47.5°	2728.2	2754.9	2955.2	3361.2	4080.9	5399.8	8119.2	11460.9	11920.0	9886.7	9539.3
50°	2325.8	2348.9	2554.5	2972.9	3692.7	4926.5	7693.8	11817.2	13107.8	10799.7	10363.6
52.5°	1849.0	1873.8	2074.1	2492.5	3231.7	4417.8	7133.6	12049.5	14479.9	12132.8	11595.6
55°	1375.7	1393.4	1567.1	1943.0	2660.9	3838.0	6431.6	12115.1	16036.4	13955.2	13283.3
57.5°	998.0	1008.7	1120.4	1400.5	2017.4	3112.9	5578.9	11944.8	17888.9	16291.7	15446.0
60°	808.4	811.9	845.6	969.6	1402.3	2294.0	4549.0	11359.9	19899.2	19303.6	18238.1
62.5°	733.9	733.9	742.8	776.4	948.4	1513.9	3302.7	10147.3	22054.9	23109.8	21682.6
65°	682.5	682.5	686.0	702.0	748.1	964.4	2084.7	8172.4	23872.0	27568.2	25763.6
67.5°	636.4	638.2	636.4	641.8	668.3	712.7	1209.0	5644.5	24850.6	32188.1	30239.8
70°	588.6	592.1	583.2	583.2	604.5	606.3	757.0	3095.2	24038.6	36059.7	35547.4
72.5°	531.9	537.1	523.0	519.5	535.4	528.3	569.1	1485.5	20638.5	37215.6	38562.9
75°	482.2	489.2	457.4	448.5	448.5	443.2	462.7	762.3	13395.0	30358.6	32471.7
77.5°	437.9	452.0	400.7	372.3	365.2	349.2	377.6	466.3	5859.0	14253.0	13956.9
80°	361.6	381.1	329.7	296.0	283.6	265.9	297.9	326.2	1742.6	3309.7	3169.7
82.5°	269.5	278.3	234.0	210.9	200.3	187.9	223.3	226.9	567.2	1171.8	1324.3
85°	172.0	175.5	143.6	124.1	118.8	113.5	141.9	124.1	216.3	861.5	1251.5
87.5°	60.3	69.2	54.9	49.6	53.2	44.3	65.6	37.2	60.3	608.0	753.4
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)