

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: P968813

Luminaire Tested: **NAV-SB5C-740-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968813
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-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40583.9 lumens
Efficiency: N/A
Efficacy: 162.7 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



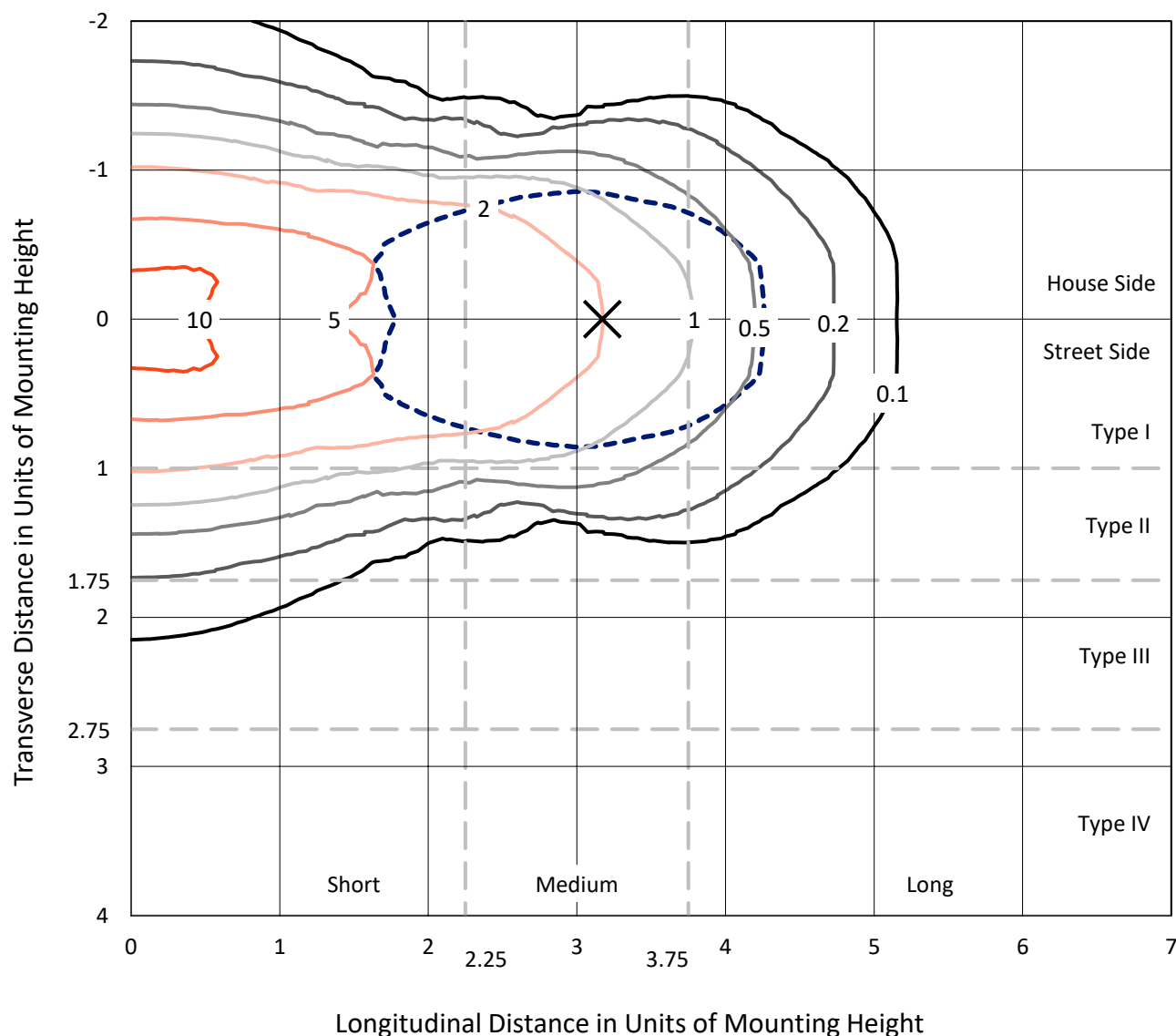
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

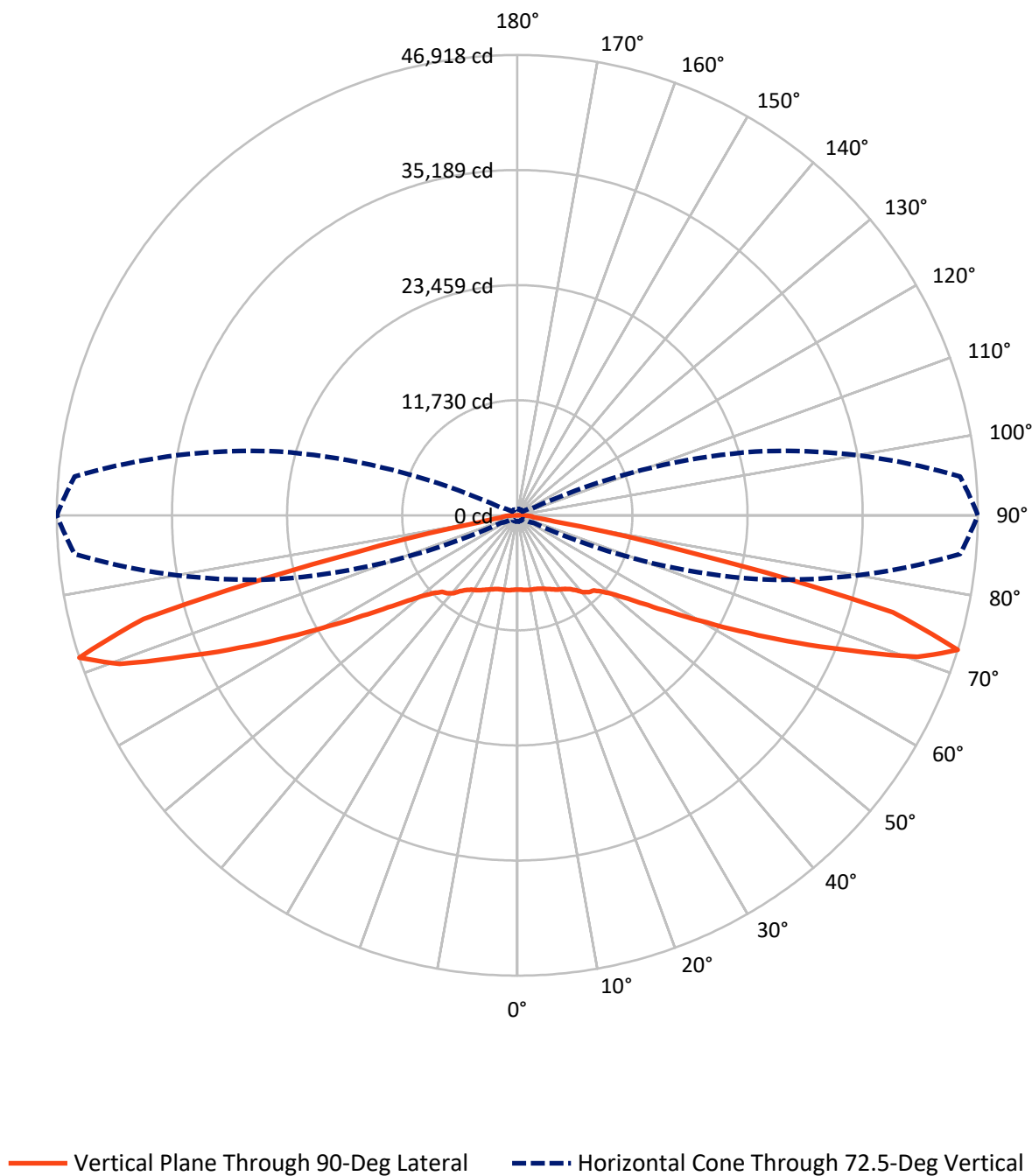


Based on 25 foot mounting height. Maximum calculated value = 12.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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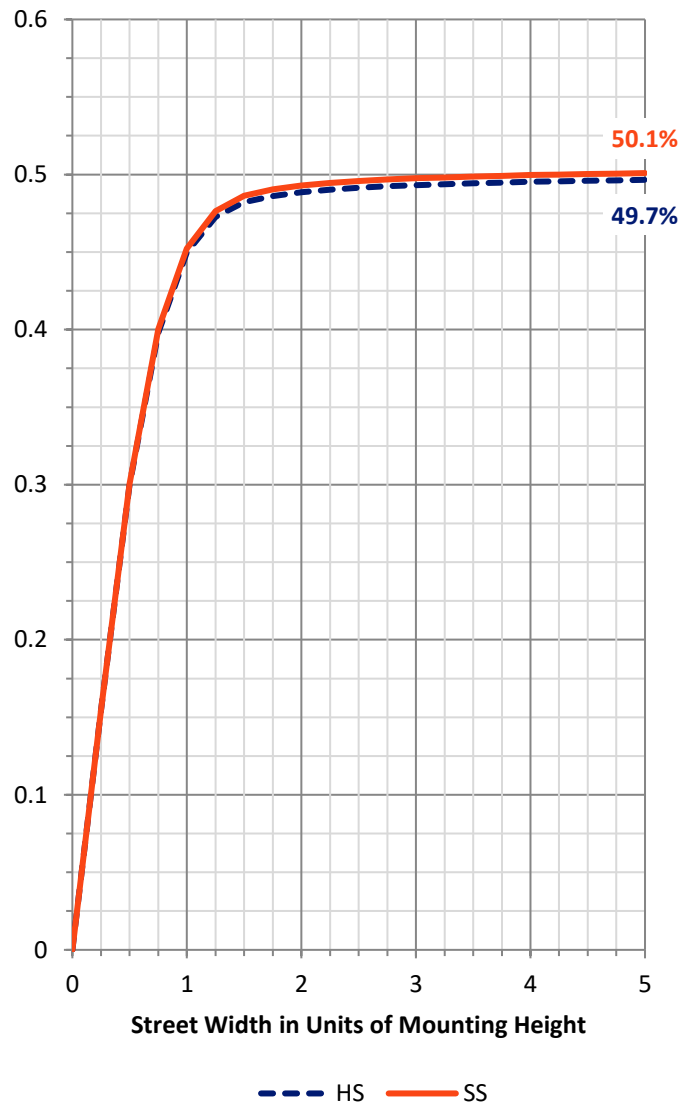
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20291.9	0.0	20291.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20291.9	0.0	20291.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	40583.9	0.0	40583.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.3	1.8
10°-20°	2248.3	5.5
20°-30°	3748.8	9.2
30°-40°	5155.8	12.7
40°-50°	6296.6	15.5
50°-60°	7282.8	17.9
60°-70°	8683.5	21.4
70°-80°	6060.5	14.9
80°-90°	372.2	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°	40583.9	100.0
0°-180°	40583.9	100.0

Coefficient of Utilization



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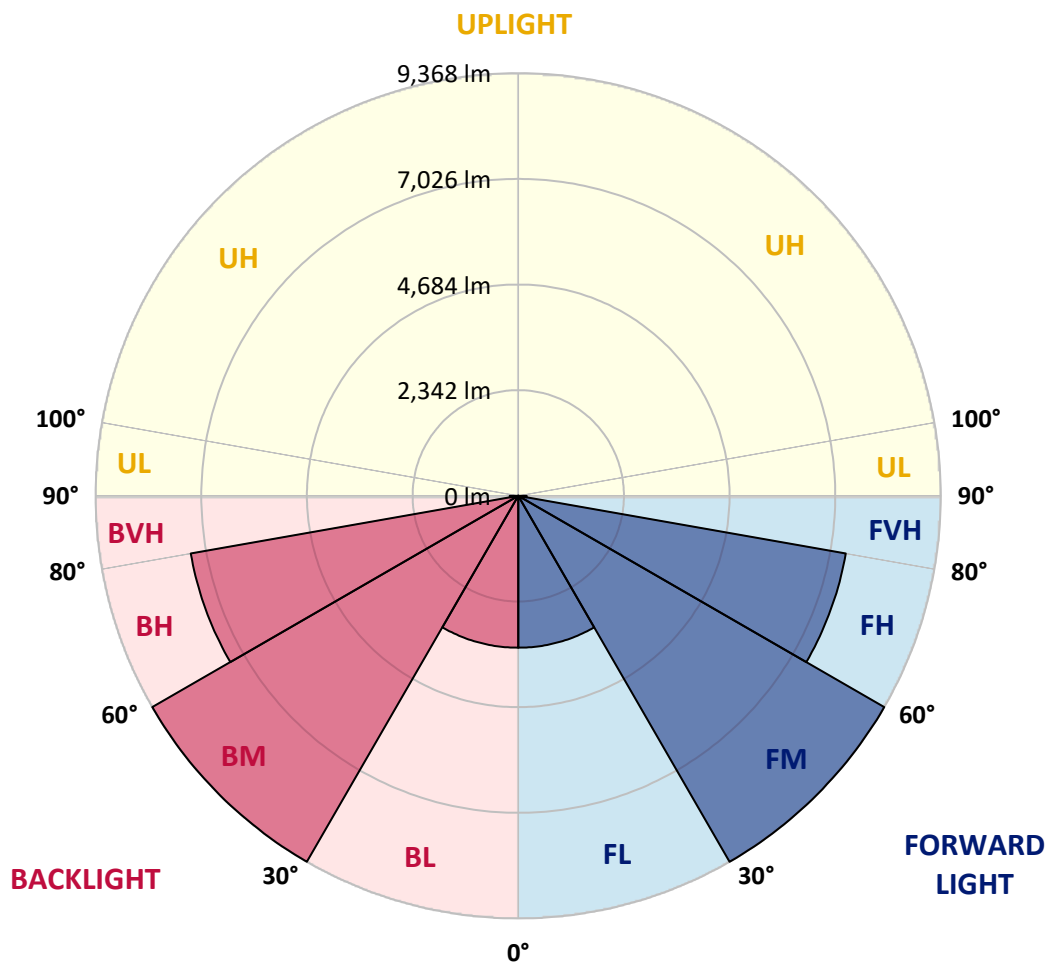
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3366.2	8.3			
FM	(30°-60°)	9367.6	23.1			
FH	(60°-80°)	7372.0	18.2			G3/7500
FVH	(80°-90°)	186.1	0.5			G2/225
BL	(0°-30°)	3366.2	8.3	B4/5000		
BM	(30°-60°)	9367.6	23.1	B5		
BH	(60°-80°)	7372.0	18.2	B5		G5
BVH	(80°-90°)	186.1	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°	7583.6	7583.6	7583.6	7583.6	7583.6	7583.6	7583.6	7583.6	7583.6	7583.6	7583.6
2.5°	7590.0	7598.6	7598.6	7592.2	7607.2	7594.3	7594.3	7587.9	7594.3	7587.9	7587.9
5°	7628.8	7639.6	7643.9	7641.8	7661.2	7650.4	7650.4	7641.8	7643.9	7637.5	7637.5
7.5°	7702.2	7717.2	7725.8	7736.7	7764.7	7751.8	7743.2	7717.2	7706.5	7689.2	7689.2
10°	7725.8	7743.2	7771.1	7827.2	7892.0	7894.1	7868.2	7803.5	7753.9	7715.1	7708.6
12.5°	7652.5	7676.2	7734.5	7848.8	7993.4	8051.6	8010.6	7902.7	7805.7	7736.7	7725.8
15°	7559.8	7585.7	7674.1	7846.7	8060.2	8196.1	8191.8	8049.4	7894.1	7786.3	7769.0
17.5°	7415.3	7441.2	7568.4	7810.0	8112.0	8336.2	8396.7	8250.0	8032.1	7887.7	7863.9
20°	7154.3	7178.1	7354.9	7693.5	8129.2	8485.1	8642.5	8513.1	8241.4	8045.1	8008.4
22.5°	6815.6	6852.3	7059.4	7493.0	8088.3	8640.3	8922.9	8834.5	8485.1	8213.3	8163.7
25°	6453.3	6492.1	6733.7	7247.1	7982.5	8752.6	9255.1	9199.0	8761.2	8422.5	8353.5
27.5°	6140.6	6181.6	6444.7	7003.3	7818.6	8795.6	9582.9	9611.0	9095.4	8653.4	8580.0
30°	5894.7	5933.5	6214.0	6807.0	7607.2	8752.6	9869.8	10063.9	9436.3	8853.9	8748.3
32.5°	5625.1	5674.7	5970.2	6567.7	7357.0	8649.1	10120.0	10553.5	9831.0	9069.6	8935.8
35°	5284.3	5329.6	5640.2	6239.8	7029.2	8482.9	10329.2	11097.1	10396.1	9397.4	9248.6
37.5°	4870.2	4913.3	5221.8	5830.0	6703.5	8250.0	10488.8	11709.6	11069.0	9869.8	9671.4
40°	4453.9	4494.9	4783.9	5372.7	6313.2	7952.4	10544.9	12309.2	11841.2	10519.0	10307.6
42.5°	4072.1	4108.8	4374.1	4921.9	5875.3	7572.7	10471.6	12831.2	12533.5	10971.9	10700.2
45°	3720.5	3752.9	3988.1	4499.2	5420.2	7111.1	10251.5	13391.9	13357.4	11295.5	10928.9
47.5°	3319.4	3351.7	3595.5	4089.4	4965.1	6569.8	9878.4	13944.1	14502.7	12028.8	11606.1
50°	2829.8	2857.8	3108.0	3617.0	4492.8	5993.9	9360.8	14377.7	15947.9	13139.6	12609.0
52.5°	2249.6	2279.8	2523.5	3032.6	3932.0	5374.9	8679.2	14660.2	17617.2	14761.5	14108.0
55°	1673.7	1695.2	1906.7	2364.0	3237.5	4669.6	7825.1	14740.0	19511.0	16978.8	16161.4
57.5°	1214.3	1227.2	1363.1	1704.0	2454.5	3787.5	6787.7	14533.0	21764.8	19821.6	18792.8
60°	983.5	987.8	1028.8	1179.8	1706.1	2791.0	5534.5	13821.2	24210.8	23486.0	22189.8
62.5°	893.0	893.0	903.7	944.7	1153.9	1841.9	4018.2	12345.8	26833.5	28116.9	26380.5
65°	830.4	830.4	834.7	854.1	910.2	1173.3	2536.5	9943.1	29044.3	33541.4	31345.6
67.5°	774.3	776.4	774.3	780.7	813.1	867.0	1471.0	6867.4	30234.8	39162.1	36791.8
70°	716.1	720.4	709.6	709.6	735.5	737.7	921.0	3765.8	29247.0	43872.7	43249.4
72.5°	647.1	653.5	636.3	631.9	651.4	642.8	692.4	1807.5	25110.1	45279.0	46918.1
75°	586.7	595.3	556.5	545.7	545.7	539.3	562.9	927.4	16297.2	36936.2	39507.2
77.5°	532.8	550.0	487.5	452.9	444.3	424.9	459.4	567.2	7128.5	17341.2	16981.0
80°	440.0	463.7	401.2	360.2	345.1	323.5	362.3	396.9	2120.2	4026.8	3856.5
82.5°	327.8	338.7	284.7	256.7	243.7	228.7	271.7	276.0	690.2	1425.7	1611.2
85°	209.2	213.5	174.7	151.0	144.5	138.1	172.5	151.0	263.1	1048.3	1522.7
87.5°	73.3	84.2	66.8	60.4	64.7	53.9	79.8	45.3	73.3	739.8	916.7
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)