

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: P968689

Luminaire Tested: **NAV-SB5C-722-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968689
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-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31688.9 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

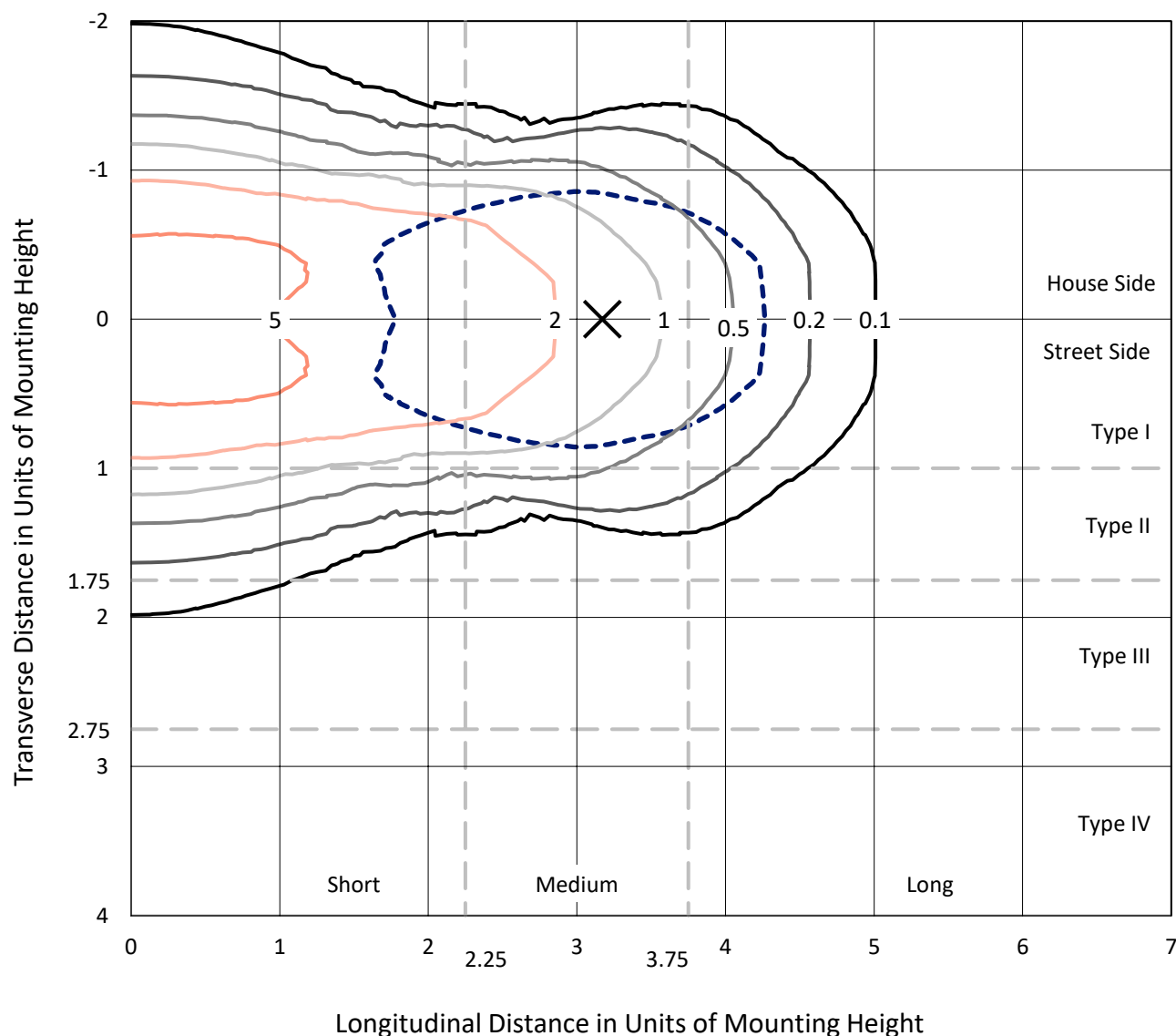
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

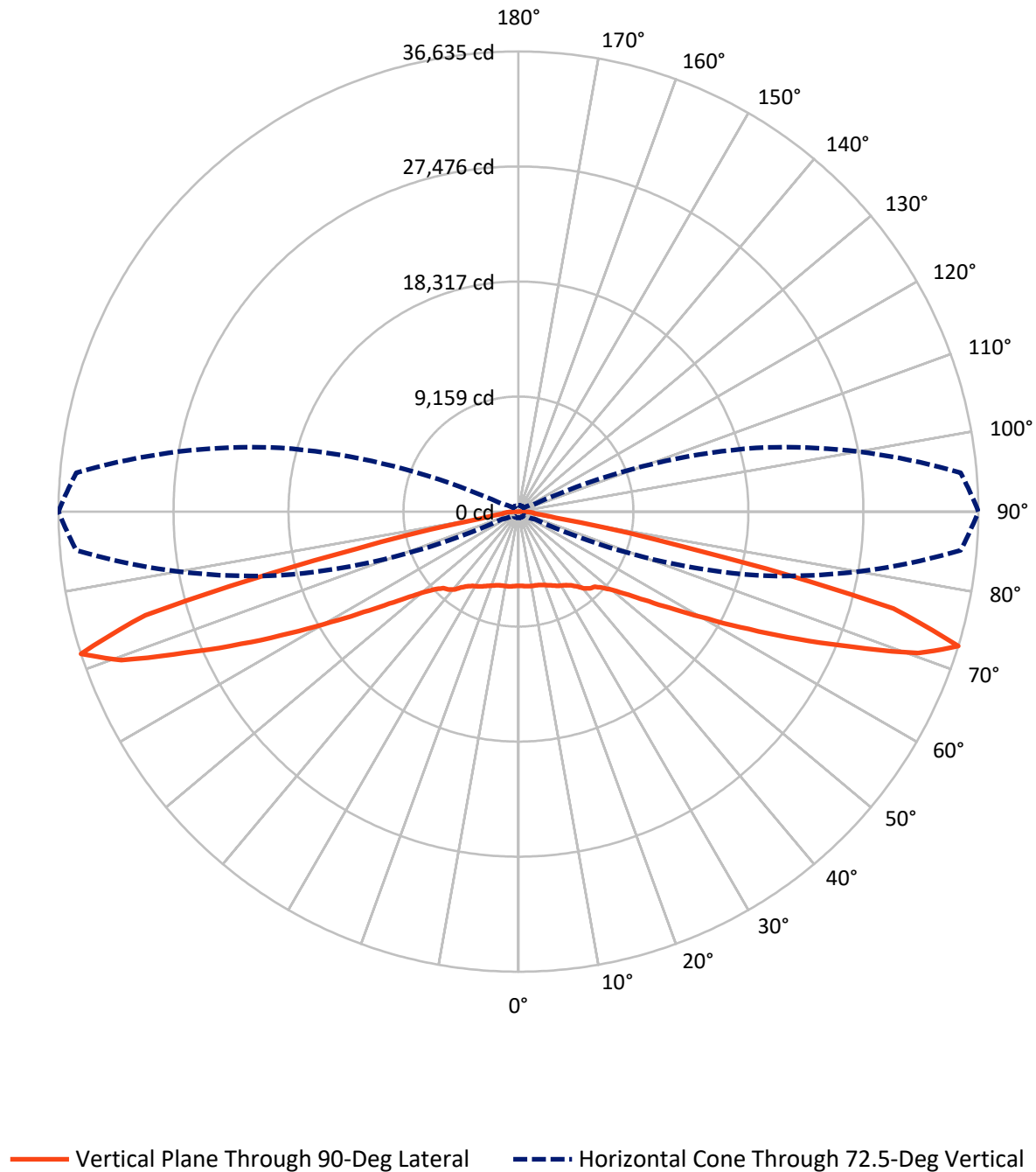
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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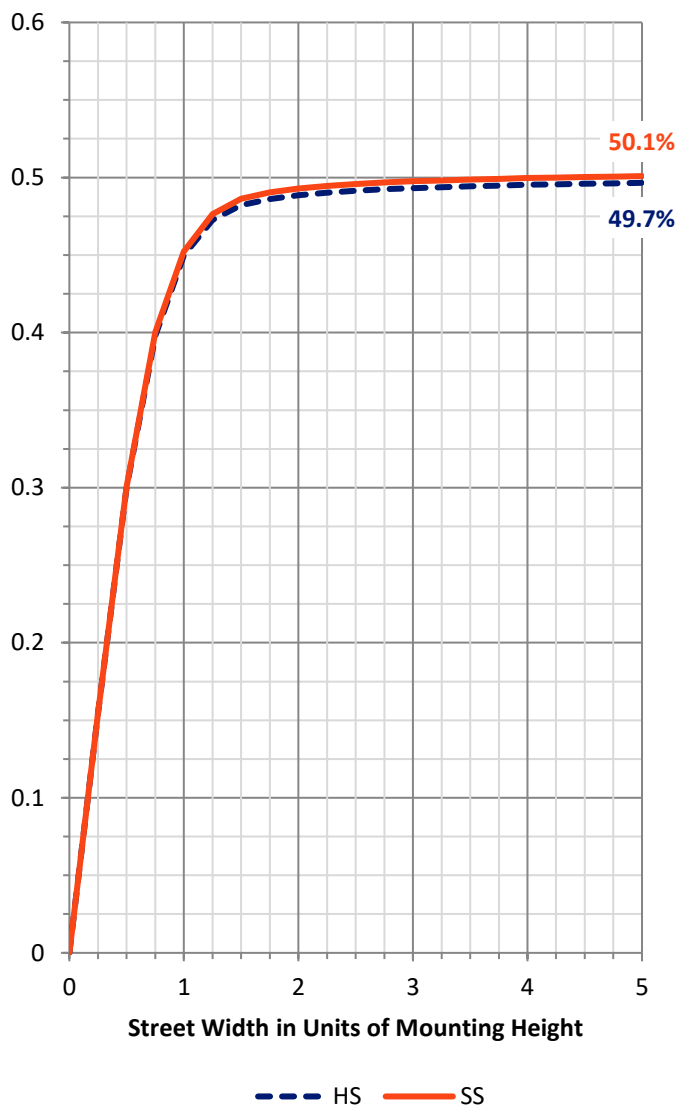
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15844.4	0.0	15844.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15844.4	0.0	15844.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	31688.9	0.0	31688.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.2	1.8
10°-20°	1755.5	5.5
20°-30°	2927.2	9.2
30°-40°	4025.8	12.7
40°-50°	4916.6	15.5
50°-60°	5686.6	17.9
60°-70°	6780.3	21.4
70°-80°	4732.2	14.9
80°-90°	290.7	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°	31688.9	100.0
0°-180°	31688.9	100.0

Coefficient of Utilization



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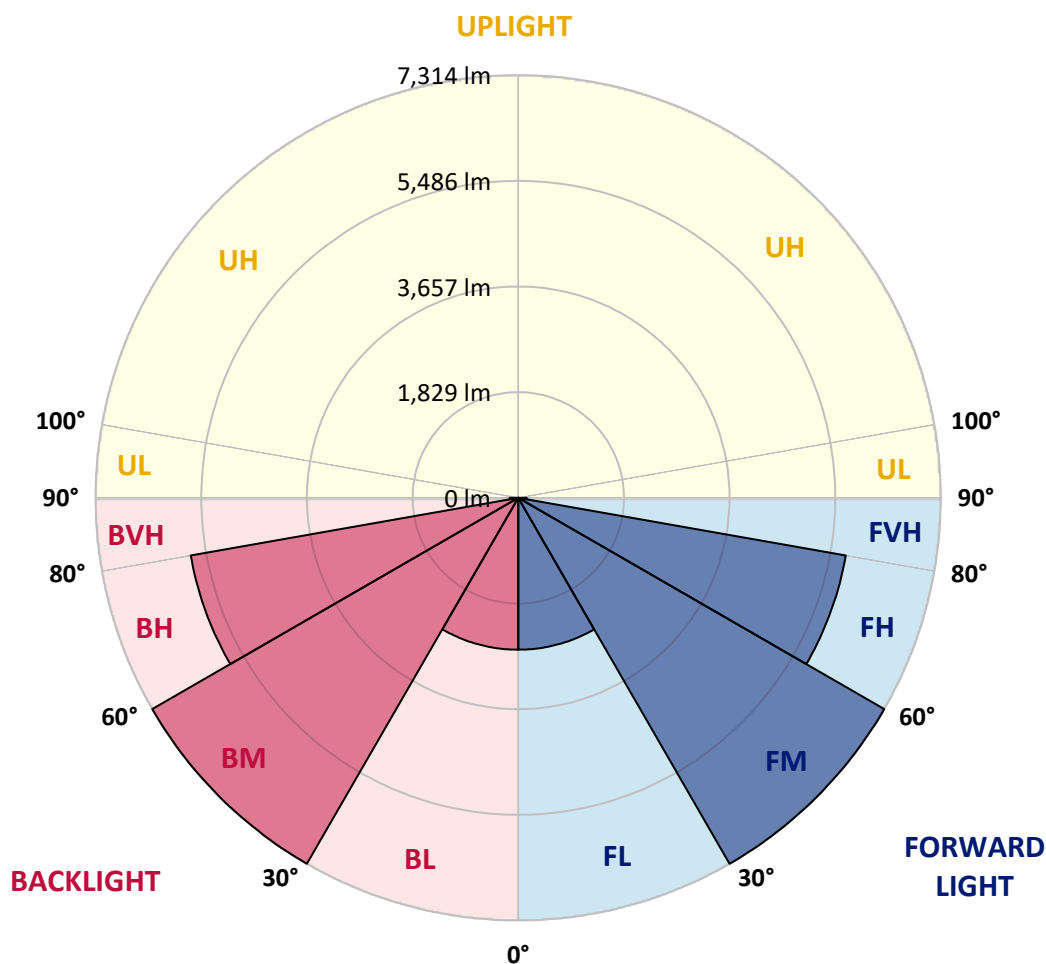
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2628.4	8.3			
FM	(30°-60°)	7314.5	23.1			
FH	(60°-80°)	5756.2	18.2			G3/7500
FVH	(80°-90°)	145.3	0.5			G2/225
BL	(0°-30°)	2628.4	8.3	B4/5000		
BM	(30°-60°)	7314.5	23.1	B4/8500		
BH	(60°-80°)	5756.2	18.2	B5		G5
BVH	(80°-90°)	145.3	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°	5921.4	5921.4	5921.4	5921.4	5921.4	5921.4	5921.4	5921.4	5921.4	5921.4	5921.4
2.5°	5926.4	5933.2	5933.2	5928.2	5940.0	5929.8	5929.8	5924.8	5929.8	5924.8	5924.8
5°	5956.8	5965.2	5968.6	5966.8	5982.0	5973.6	5973.6	5966.8	5968.6	5963.6	5963.6
7.5°	6014.0	6025.9	6032.5	6040.9	6062.9	6052.7	6046.1	6025.9	6017.4	6003.9	6003.9
10°	6032.5	6046.1	6067.9	6111.7	6162.2	6163.9	6143.7	6093.2	6054.5	6024.1	6019.1
12.5°	5975.3	5993.8	6039.3	6128.6	6241.4	6286.8	6254.9	6170.7	6094.9	6040.9	6032.5
15°	5902.9	5923.1	5992.2	6126.8	6293.6	6399.7	6396.3	6285.2	6163.9	6079.7	6066.3
17.5°	5790.0	5810.2	5909.6	6098.2	6334.0	6509.2	6556.3	6441.8	6271.7	6158.9	6140.4
20°	5586.2	5604.8	5742.9	6007.3	6347.5	6625.4	6748.3	6647.2	6435.1	6281.8	6253.2
22.5°	5321.9	5350.5	5512.1	5850.7	6315.5	6746.7	6967.2	6898.2	6625.4	6413.2	6374.5
25°	5038.9	5069.2	5257.8	5658.7	6232.9	6834.2	7226.6	7182.8	6841.0	6576.5	6522.7
27.5°	4794.7	4826.7	5032.1	5468.4	6105.0	6867.9	7482.6	7504.5	7102.0	6756.7	6699.5
30°	4602.8	4633.0	4851.9	5315.1	5940.0	6834.2	7706.6	7858.2	7368.1	6913.3	6830.8
32.5°	4392.2	4431.0	4661.7	5128.2	5744.6	6753.4	7901.9	8240.5	7676.2	7081.7	6977.4
35°	4126.1	4161.5	4404.0	4872.2	5488.6	6623.7	8065.3	8664.8	8117.5	7337.8	7221.5
37.5°	3802.7	3836.5	4077.2	4552.2	5234.3	6441.8	8190.0	9143.1	8643.0	7706.6	7551.7
40°	3477.7	3509.7	3735.4	4195.1	4929.4	6209.3	8233.7	9611.3	9245.9	8213.5	8048.5
42.5°	3179.7	3208.2	3415.4	3843.2	4587.6	5913.0	8176.4	10018.9	9786.5	8567.2	8355.0
45°	2905.2	2930.4	3114.0	3513.1	4232.2	5552.6	8004.6	10456.7	10429.8	8819.8	8533.5
47.5°	2591.9	2617.1	2807.5	3193.1	3876.9	5129.8	7713.3	10887.9	11324.1	9392.4	9062.3
50°	2209.6	2231.4	2426.8	2824.3	3508.1	4680.2	7309.2	11226.4	12452.4	10259.7	9845.4
52.5°	1756.5	1780.1	1970.5	2367.9	3070.2	4196.9	6777.0	11447.0	13756.0	11526.2	11015.9
55°	1306.9	1323.7	1488.8	1845.8	2527.9	3646.1	6110.0	11509.3	15234.7	13257.5	12619.2
57.5°	948.1	958.3	1064.4	1330.4	1916.5	2957.3	5300.0	11347.7	16994.6	15477.2	14673.8
60°	767.9	771.3	803.3	921.3	1332.2	2179.3	4321.5	10791.9	18904.4	18338.5	17326.3
62.5°	697.2	697.2	705.6	737.7	901.0	1438.3	3137.5	9639.9	20952.2	21954.4	20598.6
65°	648.4	648.4	651.8	666.9	710.7	916.1	1980.5	7763.9	22678.5	26189.9	24475.5
67.5°	604.6	606.3	604.6	609.7	634.9	677.0	1148.6	5362.3	23608.1	30578.7	28727.9
70°	559.1	562.5	554.1	554.1	574.3	575.9	719.1	2940.5	22836.8	34256.9	33770.2
72.5°	505.2	510.2	496.8	493.4	508.6	501.8	540.6	1411.3	19606.6	35355.0	36634.9
75°	458.1	464.8	434.5	426.1	426.1	421.1	439.5	724.2	12725.3	28840.7	30848.2
77.5°	415.9	429.5	380.6	353.6	347.0	331.8	358.7	442.9	5566.1	13540.5	13259.2
80°	343.6	362.1	313.2	281.3	269.5	252.7	282.9	309.9	1655.5	3144.3	3011.2
82.5°	255.9	264.4	222.3	200.4	190.3	178.6	212.2	215.6	538.9	1113.3	1258.1
85°	163.4	166.8	136.4	117.9	112.9	107.8	134.7	117.9	205.5	818.5	1189.0
87.5°	57.3	65.7	52.2	47.2	50.5	42.1	62.3	35.4	57.3	577.7	715.8
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)