

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: P970937

Luminaire Tested: **NAV-SB6C-750-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-750-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51606.7 lumens
Efficiency: N/A
Efficacy: 171.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 300.9
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

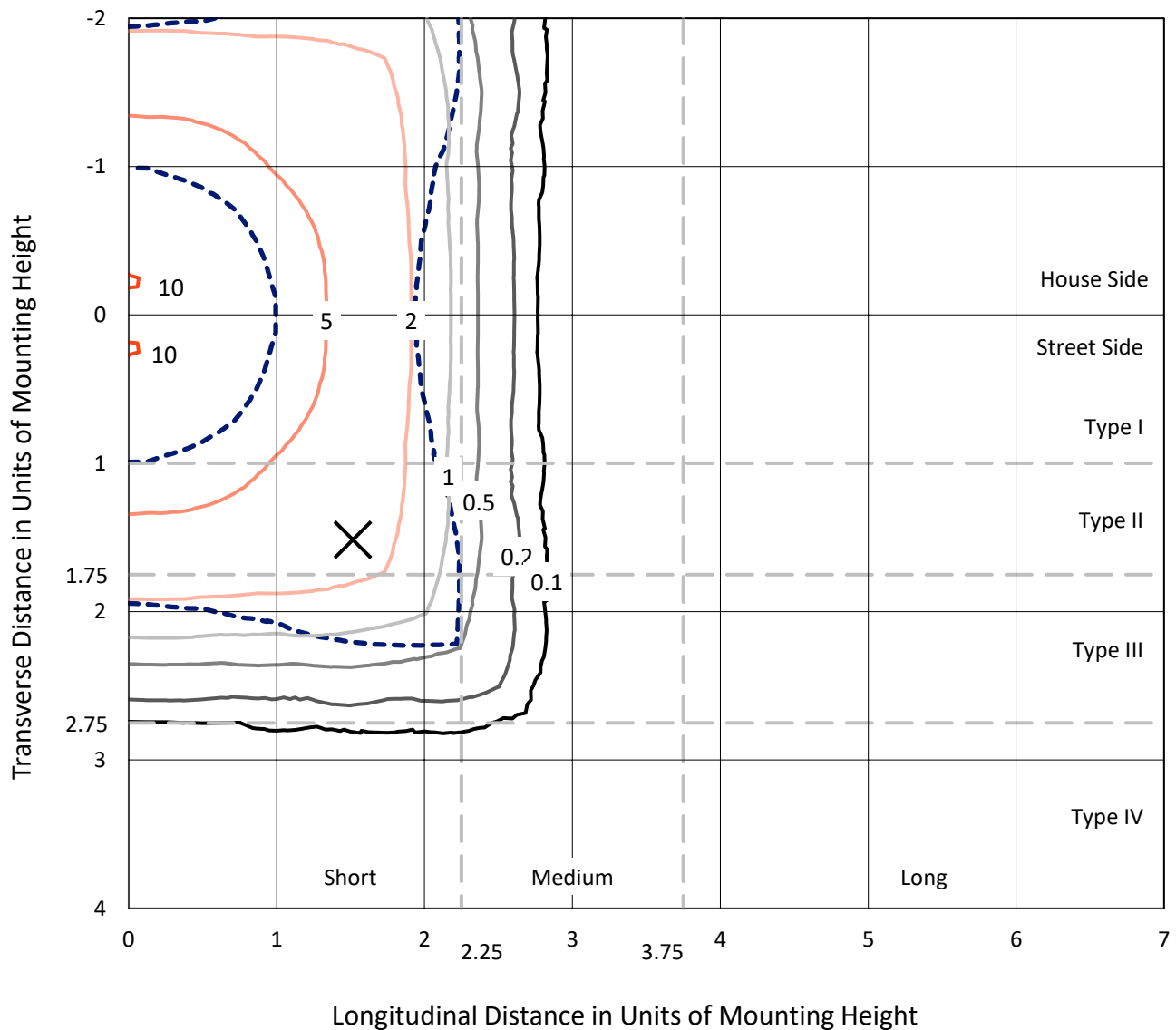


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Iso-Footcandle Lines of Horizontal Illumination

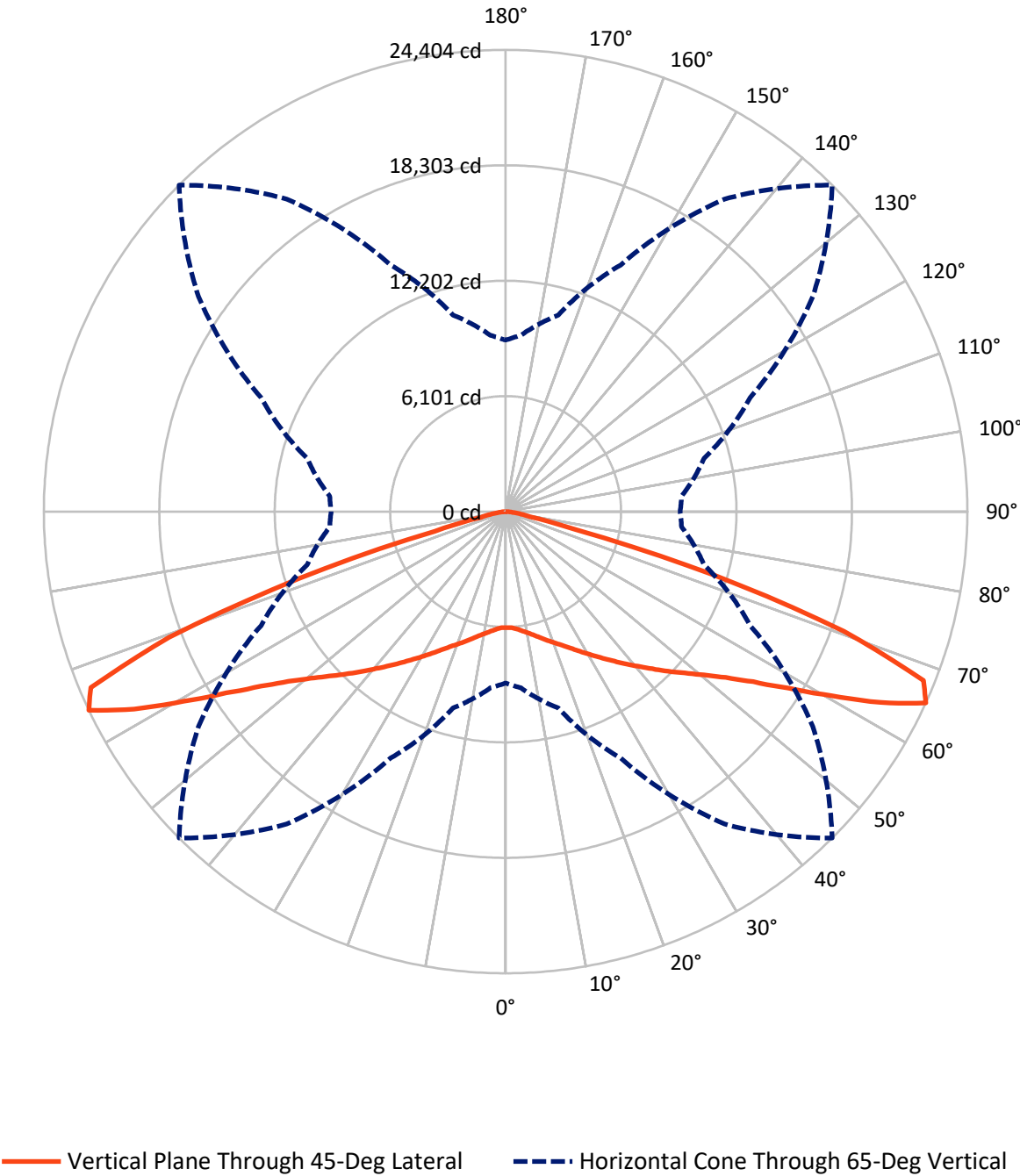
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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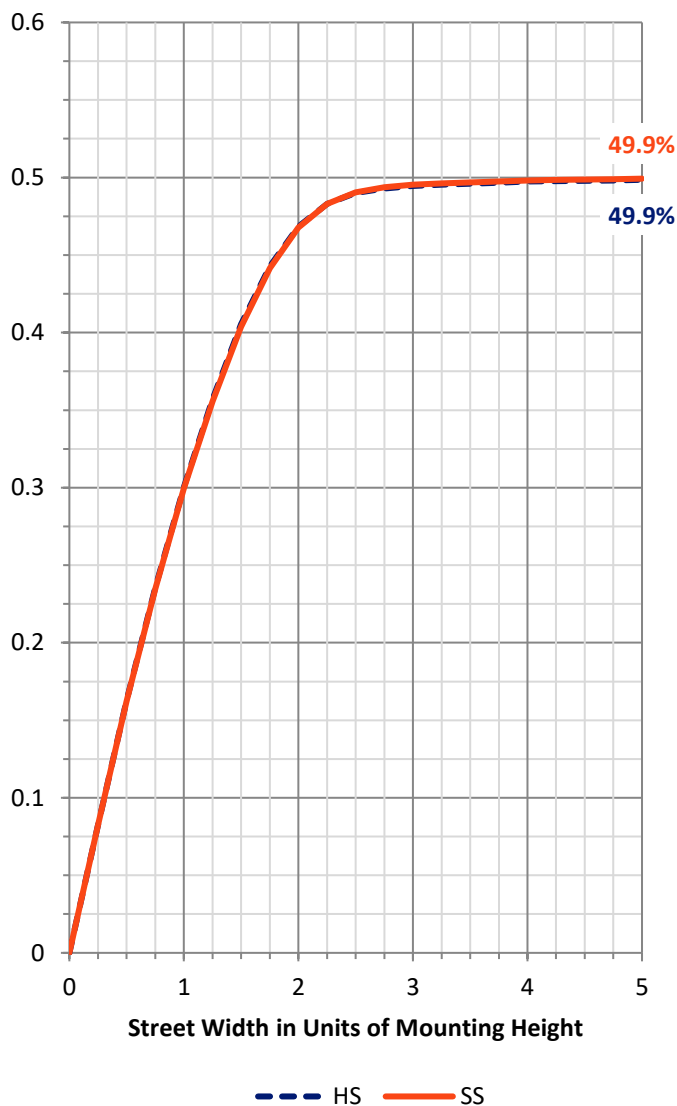
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25803.4	0.0	25803.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25803.4	0.0	25803.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	51606.7	0.0	51606.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.1	1.2
10°-20°	1977.8	3.8
20°-30°	3734.4	7.2
30°-40°	6114.9	11.8
40°-50°	9481.3	18.4
50°-60°	14005.8	27.1
60°-70°	13332.2	25.8
70°-80°	2151.3	4.2
80°-90°	202.8	0.4
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°	51606.7	100.0
0°-180°	51606.7	100.0

Coefficient of Utilization



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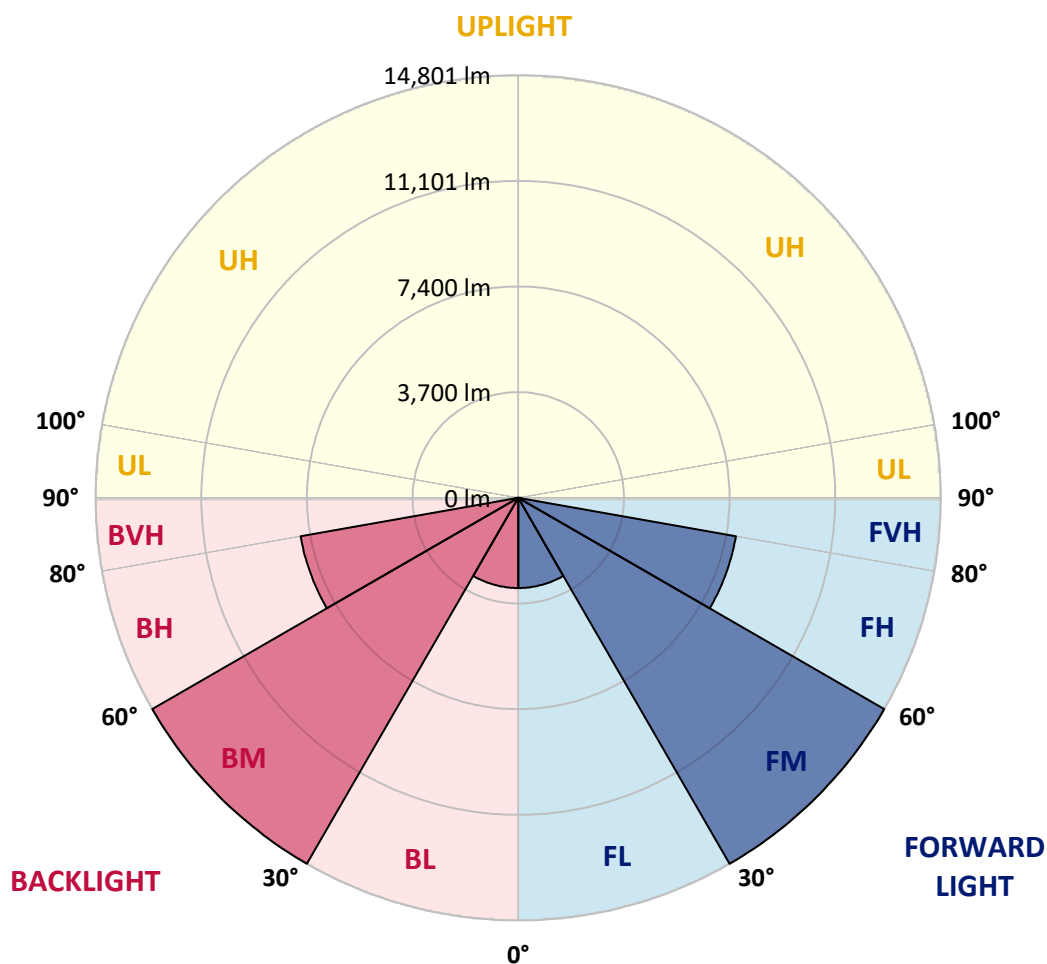
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3159.2	6.1			
FM	(30°-60°)	14801.0	28.7			
FH	(60°-80°)	7741.8	15.0			G4/12000
FVH	(80°-90°)	101.4	0.2			G2/225
BL	(0°-30°)	3159.2	6.1	B4/5000		
BM	(30°-60°)	14801.0	28.7	B5		
BH	(60°-80°)	7741.8	15.0	B5		G4/12000
BVH	(80°-90°)	101.4	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7	6141.7
2.5°	6183.1	6162.4	6178.0	6165.1	6154.6	6144.3	6149.5	6167.6	6175.4	6178.0	6178.0
5°	6266.0	6247.9	6255.7	6255.7	6237.5	6232.3	6235.0	6247.9	6263.4	6263.4	6263.4
7.5°	6400.6	6382.5	6400.6	6390.3	6374.8	6369.6	6367.0	6377.3	6400.6	6400.6	6392.8
10°	6563.8	6543.1	6553.4	6548.2	6530.1	6522.4	6519.7	6535.3	6556.0	6553.4	6548.2
12.5°	6742.4	6719.1	6732.1	6716.5	6711.4	6703.6	6703.6	6701.0	6714.0	6703.6	6708.7
15°	6941.8	6926.2	6931.5	6921.1	6928.9	6923.7	6903.0	6892.6	6897.7	6882.3	6884.8
17.5°	7177.5	7141.2	7159.3	7154.1	7154.1	7164.4	7130.8	7117.9	7128.3	7112.7	7125.6
20°	7449.3	7413.0	7420.8	7410.4	7397.5	7407.9	7366.5	7376.8	7384.5	7374.2	7397.5
22.5°	7747.1	7700.4	7697.9	7703.1	7674.6	7677.1	7648.7	7674.6	7690.1	7661.6	7690.1
25°	8052.6	8003.4	8037.0	8024.1	7987.8	7995.6	7974.9	8000.8	8013.8	7977.5	8018.9
27.5°	8376.2	8342.6	8373.6	8381.4	8337.5	8368.5	8337.5	8360.7	8373.6	8319.3	8360.7
30°	8754.3	8720.6	8749.1	8769.8	8718.0	8767.2	8741.3	8756.9	8759.4	8694.8	8733.5
32.5°	9166.0	9114.2	9186.7	9197.0	9140.0	9199.6	9166.0	9186.7	9199.6	9111.6	9171.2
35°	9668.3	9603.5	9686.5	9673.4	9624.2	9673.4	9642.4	9673.4	9704.5	9598.4	9663.1
37.5°	10209.4	10142.1	10230.1	10206.8	10160.2	10193.9	10175.8	10196.5	10245.7	10131.7	10201.6
40°	10804.9	10722.1	10841.2	10799.8	10755.7	10750.6	10761.0	10773.9	10838.7	10711.8	10753.2
42.5°	11441.9	11353.9	11532.6	11467.8	11405.7	11364.3	11397.9	11423.8	11485.9	11343.6	11418.6
45°	12169.5	12068.6	12301.5	12223.8	12125.4	12040.1	12094.4	12133.2	12223.8	12053.0	12141.0
47.5°	12972.2	12858.2	13106.8	13083.5	12923.0	12736.5	12860.9	12972.2	13039.5	12832.4	12902.3
50°	13756.7	13668.7	13994.9	14023.4	13826.6	13565.2	13738.6	13906.9	13925.0	13653.1	13686.8
52.5°	14492.1	14404.0	14877.9	15056.5	14880.4	14569.8	14753.5	14924.5	14787.3	14435.1	14445.4
55°	15079.8	15007.3	15610.6	16071.5	16131.0	15874.7	15983.4	15978.3	15527.7	14986.6	15004.8
57.5°	15222.3	15211.9	15973.1	16949.3	17570.7	17601.7	17386.9	16837.9	15867.0	15139.4	15092.8
60°	14574.9	14639.7	15685.7	17407.6	19064.7	19753.4	18823.9	17257.4	15481.2	14471.4	14352.3
62.5°	12638.1	12809.0	14070.0	16848.3	20271.3	22228.8	19976.1	16620.5	13896.5	12578.6	12500.9
65°	9057.2	9355.0	10748.0	14378.1	20162.6	24403.7	19810.4	14261.6	10851.6	9331.7	9220.4
67.5°	4109.1	4412.1	5595.4	9844.3	17526.7	23813.4	17485.3	9947.9	5875.0	4427.6	4362.9
70°	1488.8	1540.6	1921.3	3940.8	11201.1	18974.1	11680.1	3969.3	2042.9	1641.5	1620.8
72.5°	901.1	908.9	989.1	1411.1	3891.6	11519.6	4057.4	1457.8	1009.8	895.8	911.4
75°	572.3	567.0	704.3	862.2	1380.1	3886.5	1447.4	862.2	701.7	639.5	644.7
77.5°	411.7	424.7	504.9	644.7	870.0	1317.9	854.4	616.2	504.9	414.3	422.1
80°	308.1	315.9	367.7	502.4	611.1	820.8	543.8	455.7	380.6	258.9	266.7
82.5°	222.6	222.6	240.8	365.1	372.9	442.8	295.2	321.0	251.1	183.9	183.9
85°	132.0	129.5	150.2	217.5	194.2	163.1	134.7	196.8	158.0	113.9	111.3
87.5°	46.6	49.2	46.6	62.1	51.8	44.0	41.4	54.3	44.0	38.8	36.3
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)