

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: P959404

Luminaire Tested: **NAV-SB1A-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-827-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

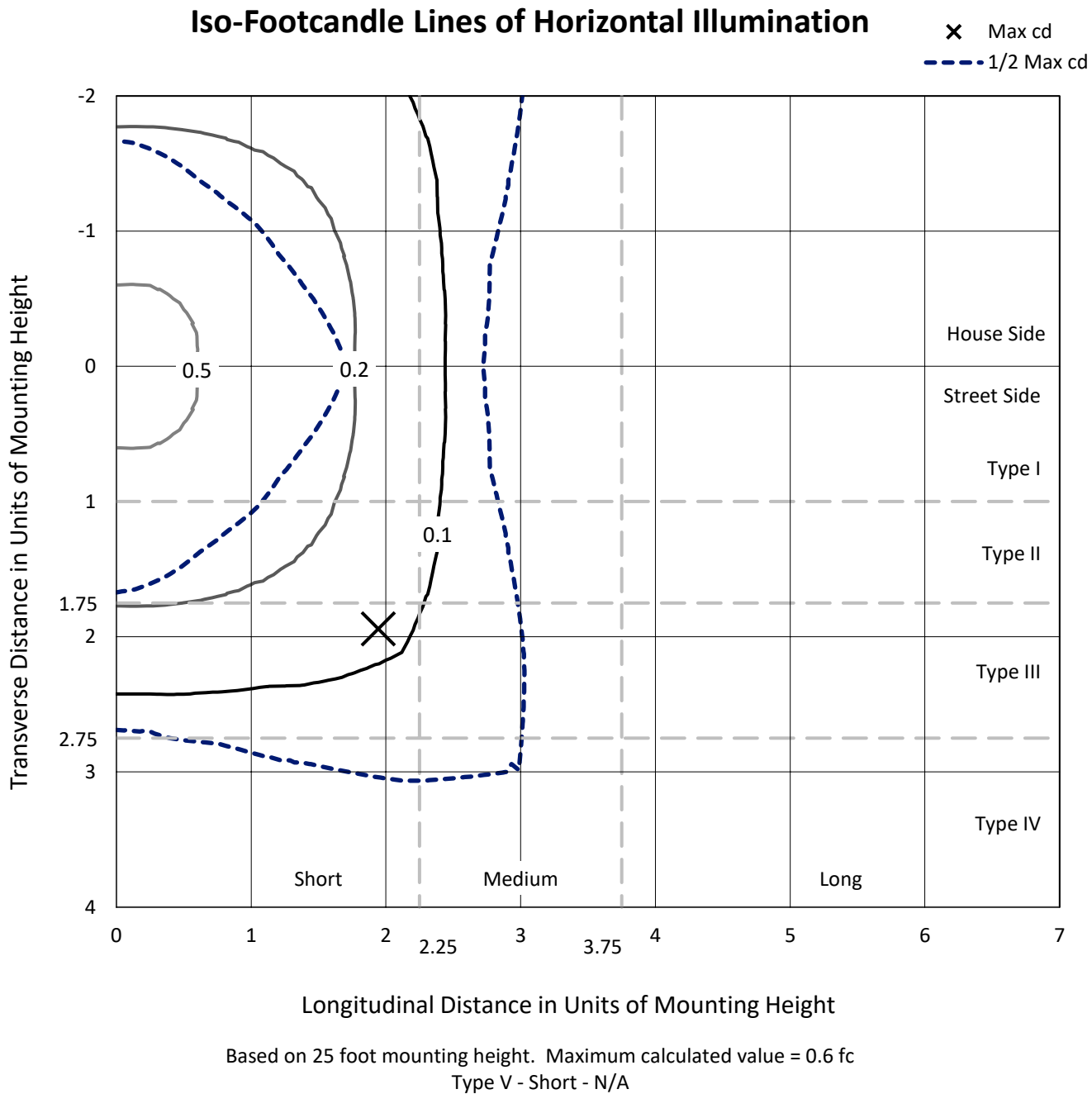
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4188.1 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 30.9
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



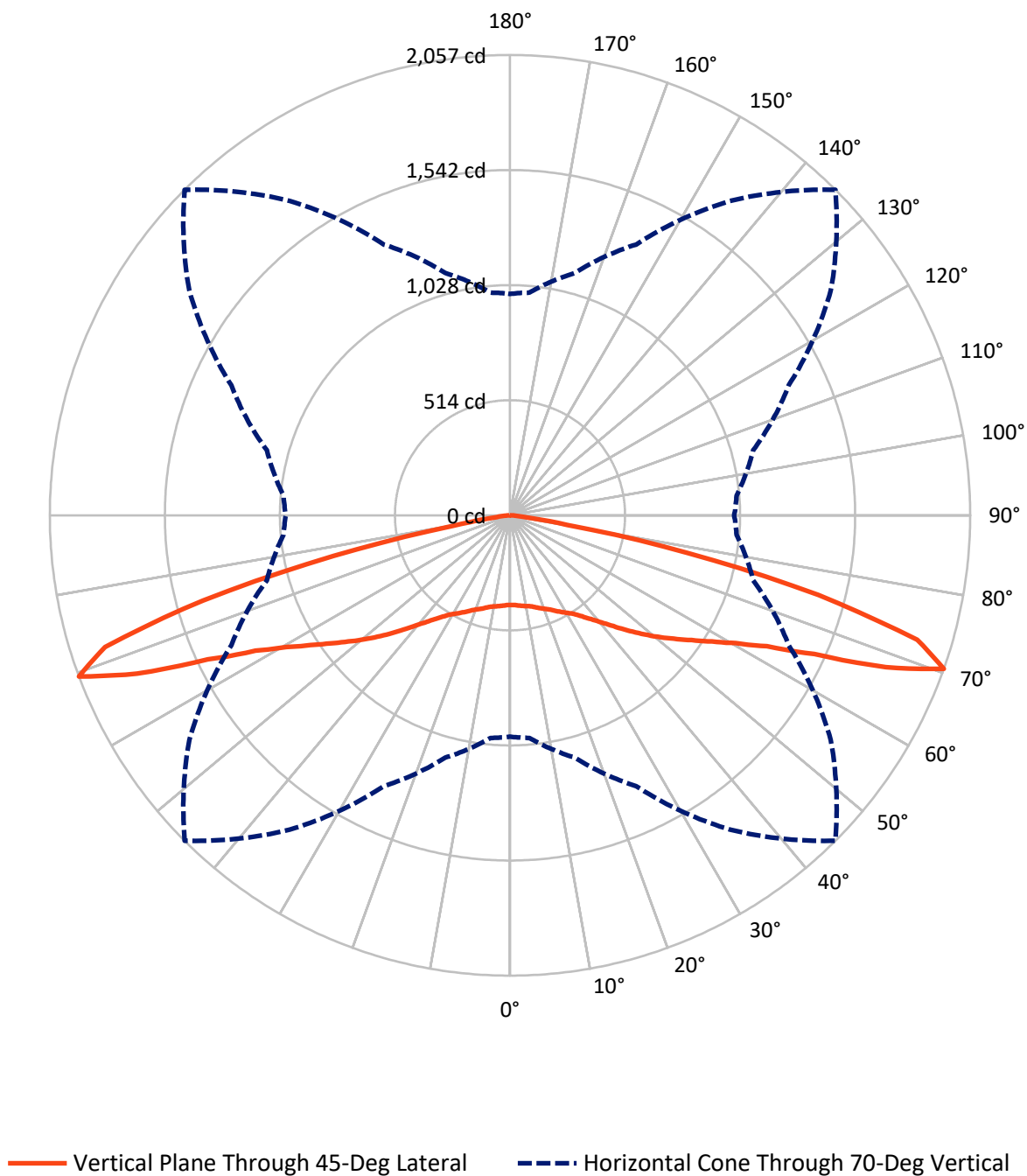
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Luminous Intensity Polar Plot



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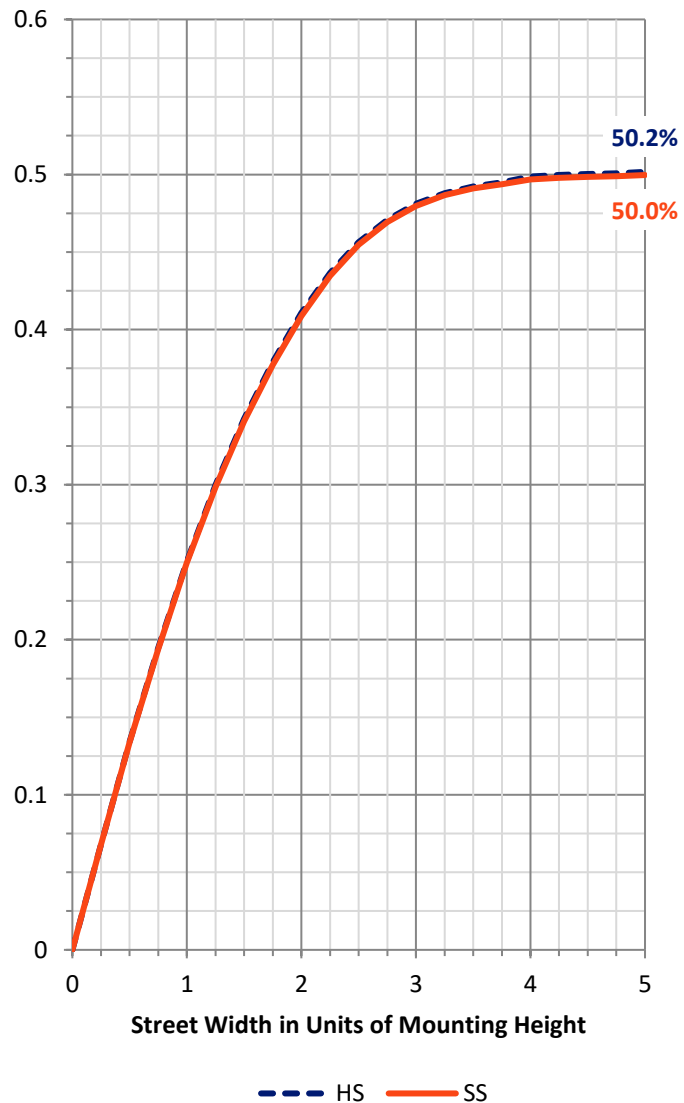
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2094.1	0.0	2094.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2094.1	0.0	2094.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	4188.1	0.0	4188.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	0.9
10°-20°	120.9	2.9
20°-30°	216.0	5.2
30°-40°	350.1	8.4
40°-50°	570.3	13.6
50°-60°	869.5	20.8
60°-70°	1293.5	30.9
70°-80°	705.0	16.8
80°-90°	24.0	0.6
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°	4188.1	100.0
0°-180°	4188.1	100.0

Coefficient of Utilization



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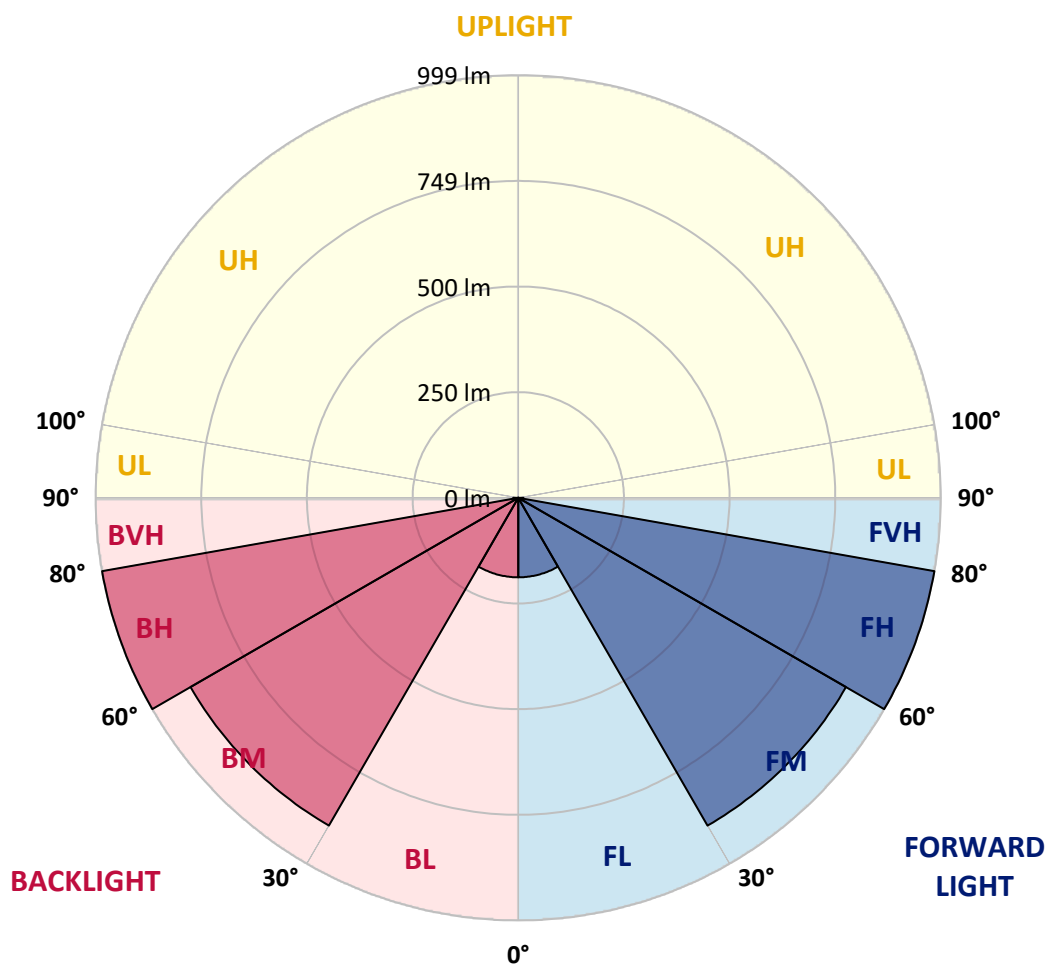
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	187.9	4.5			
FM	(30°-60°)	894.9	21.4			
FH	(60°-80°)	999.2	23.9			G1/1800
FVH	(80°-90°)	12.0	0.3			G1/100
BL	(0°-30°)	187.9	4.5	B1/500		
BM	(30°-60°)	894.9	21.4	B1/1000		
BH	(60°-80°)	999.2	23.9	B2/1000		G1/1800
BVH	(80°-90°)	12.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2
2.5°	403.0	403.5	402.6	402.2	401.8	401.2	401.4	402.4	403.2	403.0	403.2
5°	406.4	406.8	406.2	406.0	405.2	405.0	405.0	406.0	406.6	406.2	406.4
7.5°	410.2	410.8	409.8	409.6	409.2	408.8	408.6	409.6	410.2	410.2	410.2
10°	413.8	414.4	413.6	413.0	412.6	412.6	412.2	413.0	414.0	413.8	413.8
12.5°	417.6	418.0	417.2	416.8	416.8	417.4	416.8	417.2	418.0	417.6	417.4
15°	422.2	422.4	422.2	422.8	423.9	426.0	424.1	423.6	424.1	423.0	423.0
17.5°	428.6	429.0	429.8	431.2	432.8	436.5	433.2	432.1	432.1	430.0	430.0
20°	436.3	437.0	438.2	440.7	442.6	446.2	442.8	441.4	440.7	438.0	438.0
22.5°	444.5	445.6	447.4	450.8	454.2	457.6	454.2	451.6	449.8	446.2	446.0
25°	454.0	455.2	458.2	463.6	468.2	473.1	469.1	464.0	460.2	455.2	455.0
27.5°	467.4	468.8	472.4	479.2	485.0	489.2	485.5	479.0	473.8	467.6	467.4
30°	486.4	487.8	492.0	499.2	503.2	505.9	503.4	498.4	492.0	485.0	485.0
32.5°	510.8	512.6	517.2	524.0	524.8	525.2	524.4	521.8	517.2	508.8	509.0
35°	541.6	543.8	549.0	554.4	553.6	554.4	553.2	552.4	549.0	539.4	539.4
37.5°	579.5	582.0	587.4	591.6	589.6	588.6	588.8	589.0	587.0	576.4	576.4
40°	623.4	626.8	630.8	635.2	631.6	628.4	630.6	632.2	630.6	619.6	619.6
42.5°	668.6	673.4	677.6	684.0	681.0	677.0	680.0	681.9	678.3	666.6	667.4
45°	718.9	723.5	729.0	738.4	736.4	732.2	736.4	736.8	730.6	716.8	718.2
47.5°	770.8	775.6	783.8	796.4	795.6	791.0	796.4	793.6	785.8	769.2	768.1
50°	820.0	826.8	839.4	857.0	858.7	853.0	860.4	854.7	841.7	820.8	820.4
52.5°	866.3	873.4	893.4	917.4	923.5	916.1	926.0	916.1	896.6	869.8	867.4
55°	914.8	922.8	946.6	978.0	990.1	984.6	993.9	979.0	951.2	918.8	914.4
57.5°	972.0	976.9	1005.2	1042.5	1063.1	1064.4	1068.6	1043.3	1009.7	972.9	967.8
60°	1034.1	1040.8	1071.7	1116.3	1148.9	1159.4	1155.0	1117.6	1078.4	1036.2	1029.4
62.5°	1113.6	1120.9	1157.9	1211.3	1262.8	1288.9	1271.7	1217.4	1169.0	1118.4	1109.6
65°	1179.4	1187.6	1254.4	1349.7	1443.4	1495.8	1452.5	1352.6	1265.6	1194.1	1182.3
67.5°	1131.6	1141.7	1246.6	1421.6	1654.8	1811.0	1662.8	1443.0	1272.5	1175.6	1161.1
70°	989.1	998.6	1120.9	1334.8	1714.3	2056.6	1750.0	1374.1	1124.9	1016.4	1001.9
72.5°	656.6	687.2	811.0	1067.5	1530.7	1903.1	1545.8	1045.8	752.3	655.2	634.0
75°	217.8	242.2	326.8	553.4	1025.2	1423.3	976.0	489.7	258.8	186.2	176.2
77.5°	54.8	63.2	87.2	158.4	409.0	810.4	368.2	129.4	70.4	49.2	44.0
80°	26.8	29.4	42.0	52.8	102.4	257.6	96.0	49.6	33.2	25.6	23.6
82.5°	14.8	15.0	23.8	29.8	38.0	66.6	39.6	29.0	19.2	15.6	15.6
85°	9.0	8.8	12.6	16.0	16.0	23.8	19.0	16.0	11.0	9.6	10.0
87.5°	3.6	3.6	4.6	5.0	4.4	6.0	4.8	5.2	4.2	4.0	4.2
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)