

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: P968891

Luminaire Tested: **NAV-SB5C-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968891
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-SB5C-827-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35333.8 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

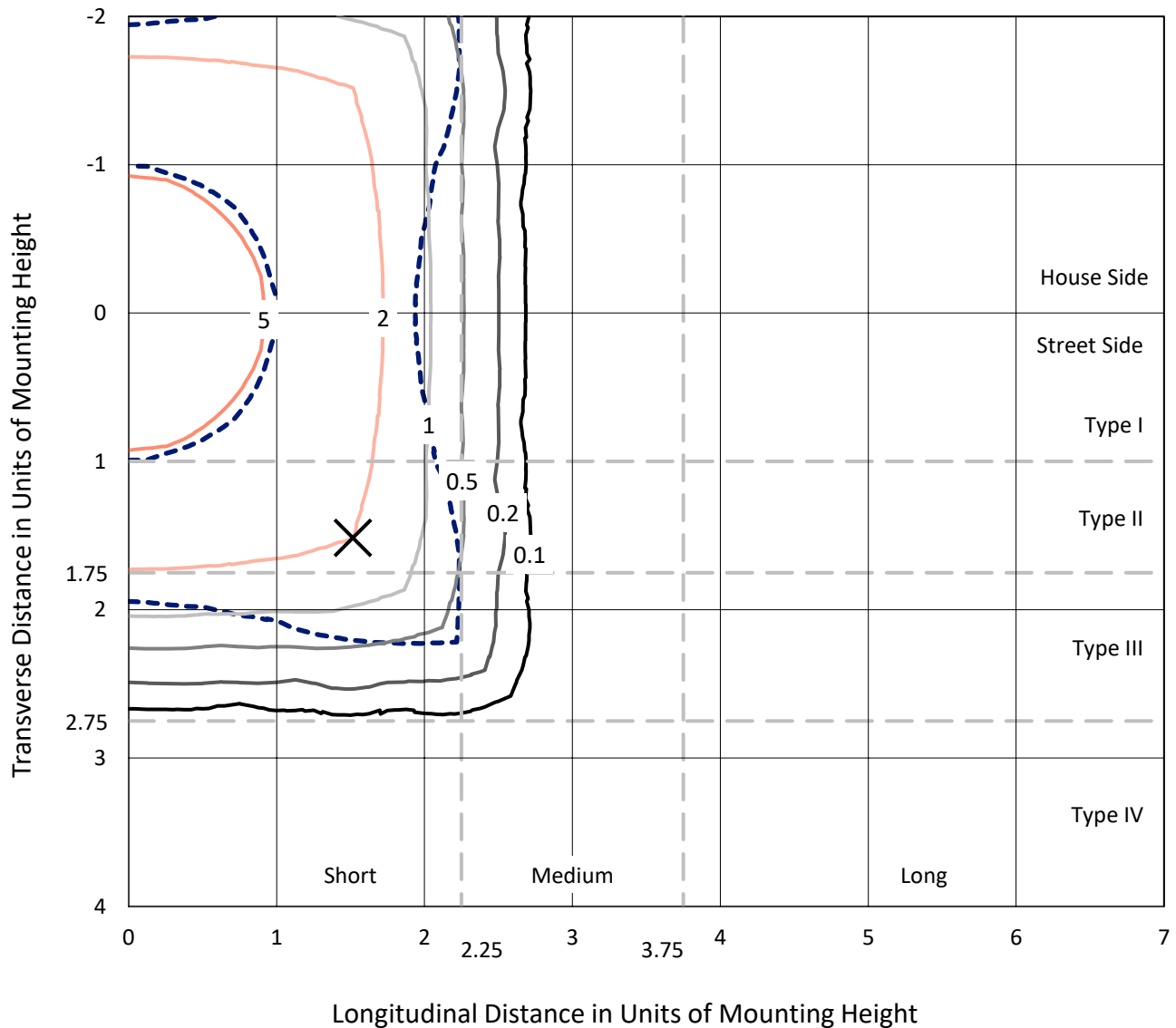
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

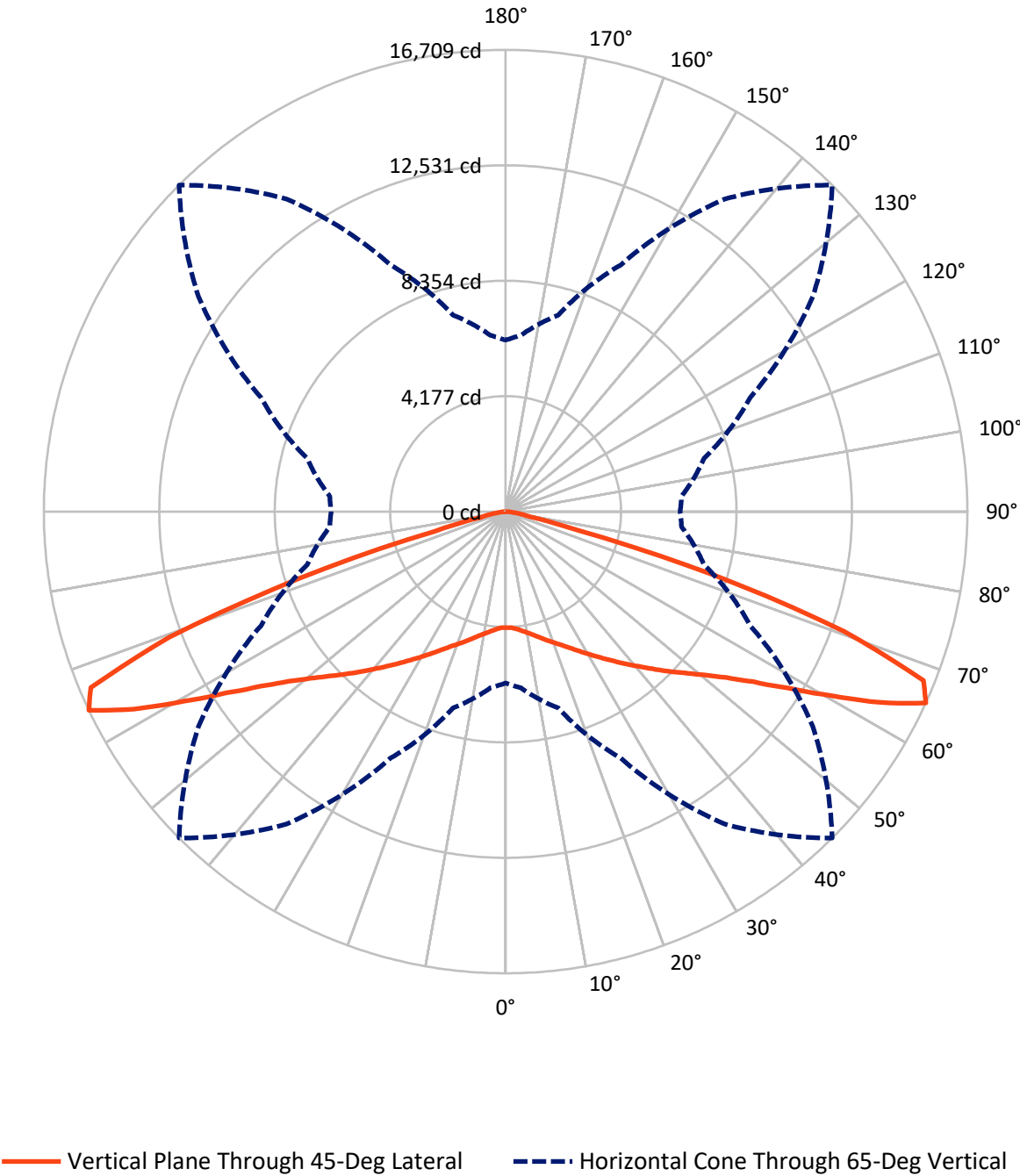
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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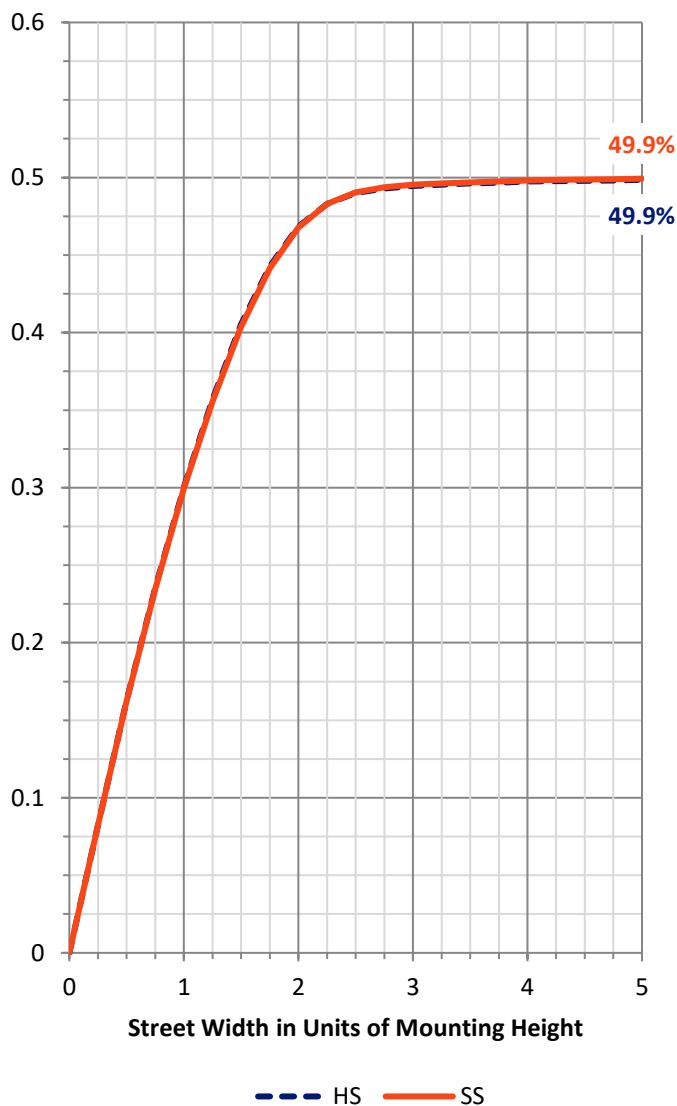
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17666.9	0.0	17666.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17666.9	0.0	17666.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	35333.8	0.0	35333.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.0	1.2
10°-20°	1354.2	3.8
20°-30°	2556.8	7.2
30°-40°	4186.7	11.8
40°-50°	6491.6	18.4
50°-60°	9589.4	27.1
60°-70°	9128.2	25.8
70°-80°	1473.0	4.2
80°-90°	138.8	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°	35333.8	100.0
0°-180°	35333.8	100.0

Coefficient of Utilization



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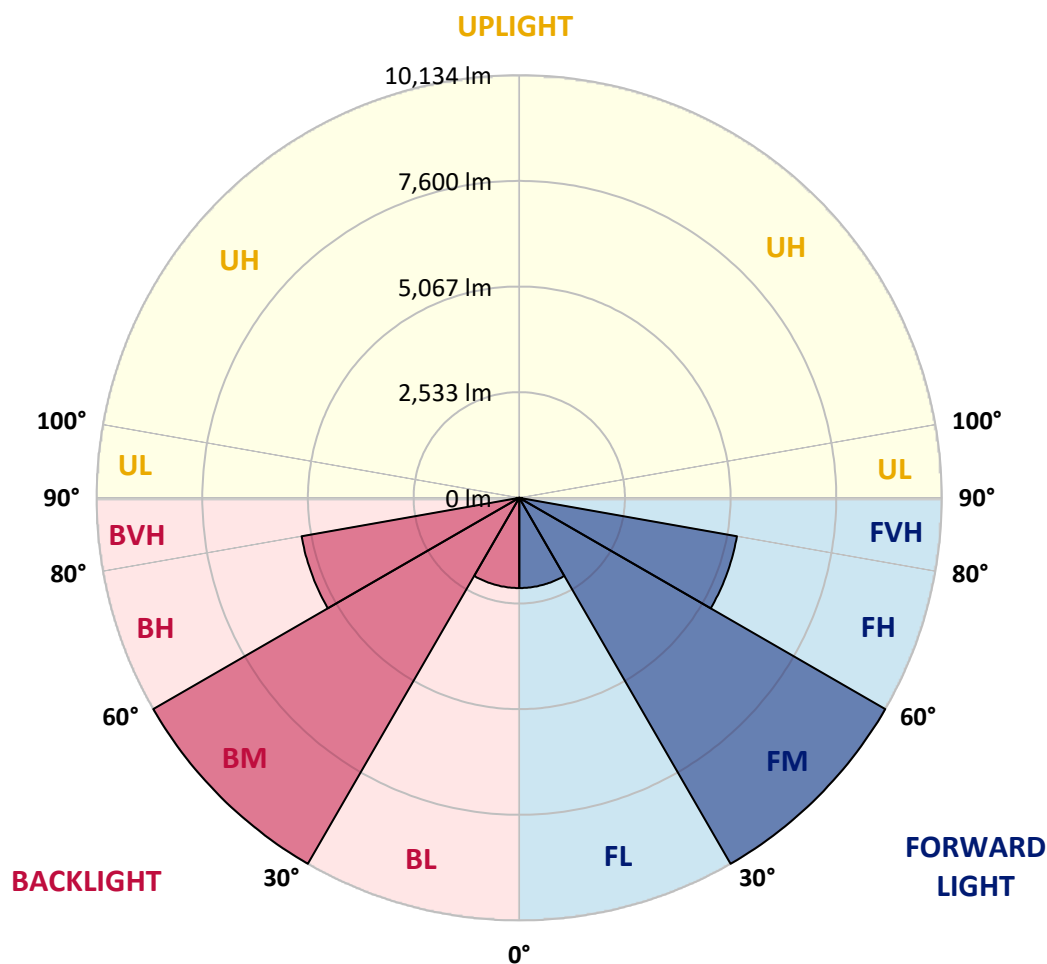
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2163.0	6.1			
FM	(30°-60°)	10133.9	28.7			
FH	(60°-80°)	5300.6	15.0			G3/7500
FVH	(80°-90°)	69.4	0.2			G1/100
BL	(0°-30°)	2163.0	6.1	B3/2500		
BM	(30°-60°)	10133.9	28.7	B5		
BH	(60°-80°)	5300.6	15.0	B5		G3/7500
BVH	(80°-90°)	69.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4205.1	4205.1	4205.1	4205.1	4205.1	4205.1	4205.1	4205.1	4205.1	4205.1	4205.1
2.5°	4233.5	4219.2	4229.9	4221.1	4214.0	4206.8	4210.4	4222.8	4228.1	4229.9	4229.9
5°	4290.1	4277.7	4283.1	4283.1	4270.7	4267.1	4268.9	4277.7	4288.4	4288.4	4288.4
7.5°	4382.4	4370.0	4382.4	4375.3	4364.7	4361.1	4359.3	4366.4	4382.4	4382.4	4377.1
10°	4494.0	4479.9	4486.9	4483.5	4470.9	4465.7	4463.9	4474.5	4488.7	4486.9	4483.5
12.5°	4616.4	4600.4	4609.3	4598.7	4595.1	4589.7	4589.7	4588.0	4596.8	4589.7	4593.3
15°	4752.8	4742.3	4745.8	4738.7	4744.0	4740.4	4726.3	4719.2	4722.7	4712.1	4713.9
17.5°	4914.2	4889.4	4901.8	4898.3	4898.3	4905.3	4882.3	4873.5	4880.5	4869.9	4878.7
20°	5100.3	5075.5	5080.8	5073.8	5064.8	5072.0	5043.6	5050.7	5056.0	5048.9	5064.8
22.5°	5304.2	5272.3	5270.5	5274.0	5254.6	5256.3	5236.8	5254.6	5265.2	5245.7	5265.2
25°	5513.4	5479.8	5502.7	5493.9	5469.1	5474.4	5460.2	5477.9	5486.8	5462.0	5490.3
27.5°	5735.0	5711.9	5733.2	5738.6	5708.4	5729.6	5708.4	5724.3	5733.2	5696.0	5724.3
30°	5993.8	5970.8	5990.3	6004.4	5969.0	6002.7	5985.0	5995.6	5997.4	5953.1	5979.6
32.5°	6275.7	6240.2	6289.9	6297.0	6257.9	6298.7	6275.7	6289.9	6298.7	6238.5	6279.3
35°	6619.7	6575.3	6632.1	6623.1	6589.5	6623.1	6601.9	6623.1	6644.5	6571.8	6616.1
37.5°	6990.1	6944.1	7004.3	6988.3	6956.5	6979.5	6967.1	6981.3	7015.0	6937.0	6984.9
40°	7397.8	7341.2	7422.7	7394.4	7364.2	7360.6	7367.7	7376.6	7420.9	7334.1	7362.5
42.5°	7834.0	7773.7	7896.1	7851.7	7809.2	7780.8	7803.8	7821.6	7864.1	7766.6	7818.1
45°	8332.1	8263.0	8422.5	8369.3	8302.0	8243.5	8280.8	8307.3	8369.3	8252.4	8312.6
47.5°	8881.7	8803.7	8973.9	8958.0	8848.0	8720.4	8805.5	8881.7	8927.9	8786.0	8833.9
50°	9418.8	9358.6	9582.0	9601.5	9466.7	9287.7	9406.4	9521.7	9534.1	9348.0	9371.0
52.5°	9922.3	9862.0	10186.4	10308.8	10188.3	9975.5	10101.4	10218.4	10124.4	9883.4	9890.4
55°	10324.7	10275.1	10688.2	11003.8	11044.5	10869.0	10943.5	10939.9	10631.5	10261.0	10273.4
57.5°	10422.3	10415.2	10936.3	11604.7	12030.2	12051.4	11904.3	11528.5	10863.7	10365.5	10333.6
60°	9979.1	10023.4	10739.6	11918.5	13053.1	13524.7	12888.2	11815.7	10599.5	9908.2	9826.6
62.5°	8653.0	8770.0	9633.4	11535.6	13879.2	15219.5	13677.1	11379.6	9514.6	8612.3	8559.1
65°	6201.2	6405.1	7358.9	9844.3	13804.8	16708.6	13563.7	9764.6	7429.8	6389.1	6313.0
67.5°	2813.4	3020.9	3831.0	6740.2	12000.1	16304.4	11971.7	6811.1	4022.5	3031.4	2987.2
70°	1019.4	1054.8	1315.4	2698.2	7669.2	12991.1	7997.0	2717.7	1398.7	1123.9	1109.8
72.5°	616.9	622.3	677.2	966.2	2664.5	7887.2	2778.0	998.0	691.4	613.4	624.0
75°	391.8	388.3	482.2	590.3	944.9	2661.0	991.0	590.3	480.4	437.9	441.5
77.5°	281.9	290.7	345.7	441.5	595.6	902.3	585.1	421.9	345.7	283.6	288.9
80°	210.9	216.3	251.7	343.9	418.4	562.0	372.3	312.0	260.6	177.3	182.6
82.5°	152.4	152.4	164.8	250.0	255.3	303.2	202.1	219.9	172.0	125.9	125.9
85°	90.4	88.7	102.8	148.9	132.9	111.7	92.1	134.7	108.1	78.0	76.3
87.5°	31.9	33.7	31.9	42.5	35.5	30.1	28.4	37.2	30.1	26.5	24.8
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)