

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: P966690

Luminaire Tested: **NAV-SB4C-740-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966690
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-SB4C-740-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34106.9 lumens
Efficiency: N/A
Efficacy: 169.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

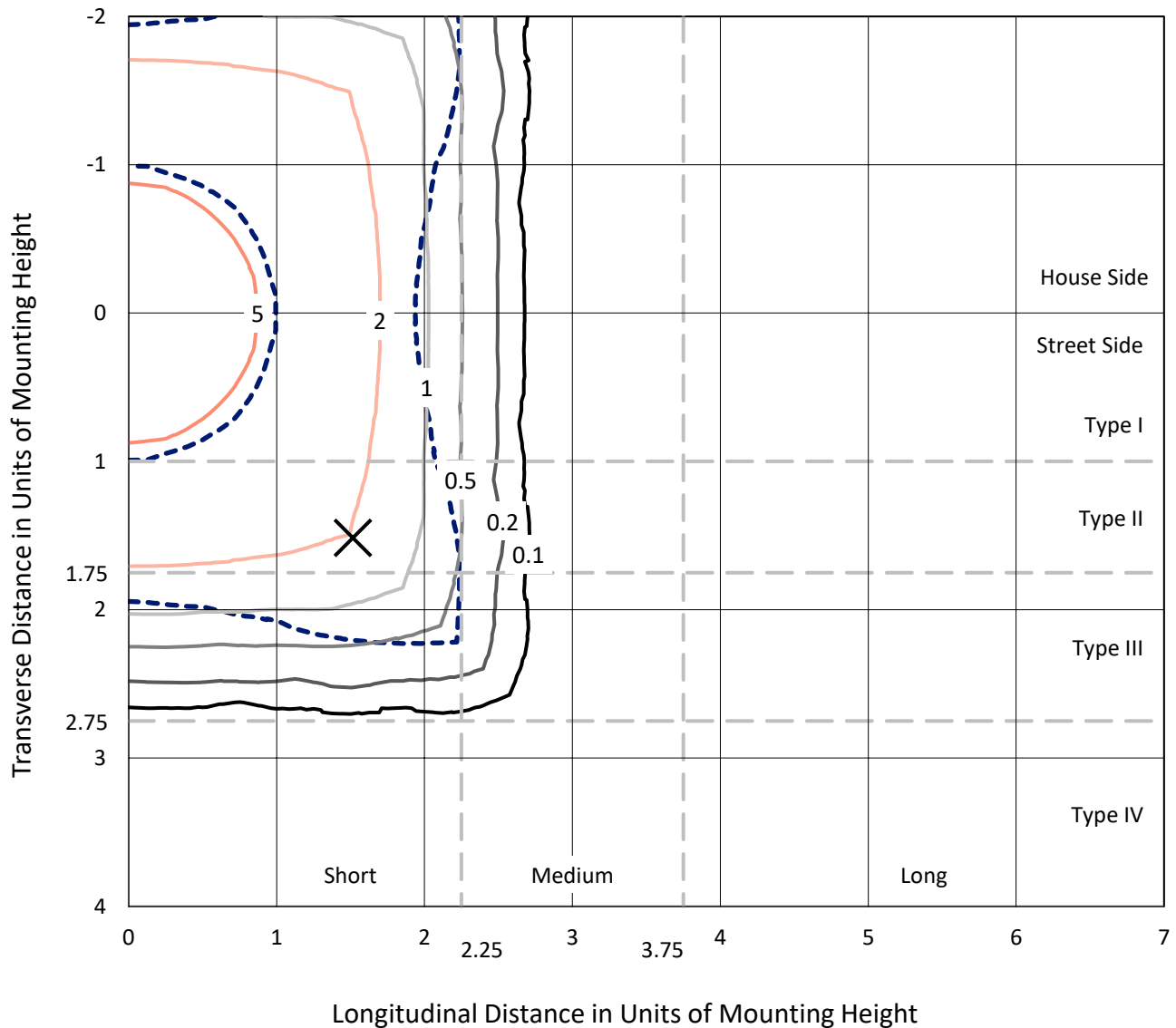
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

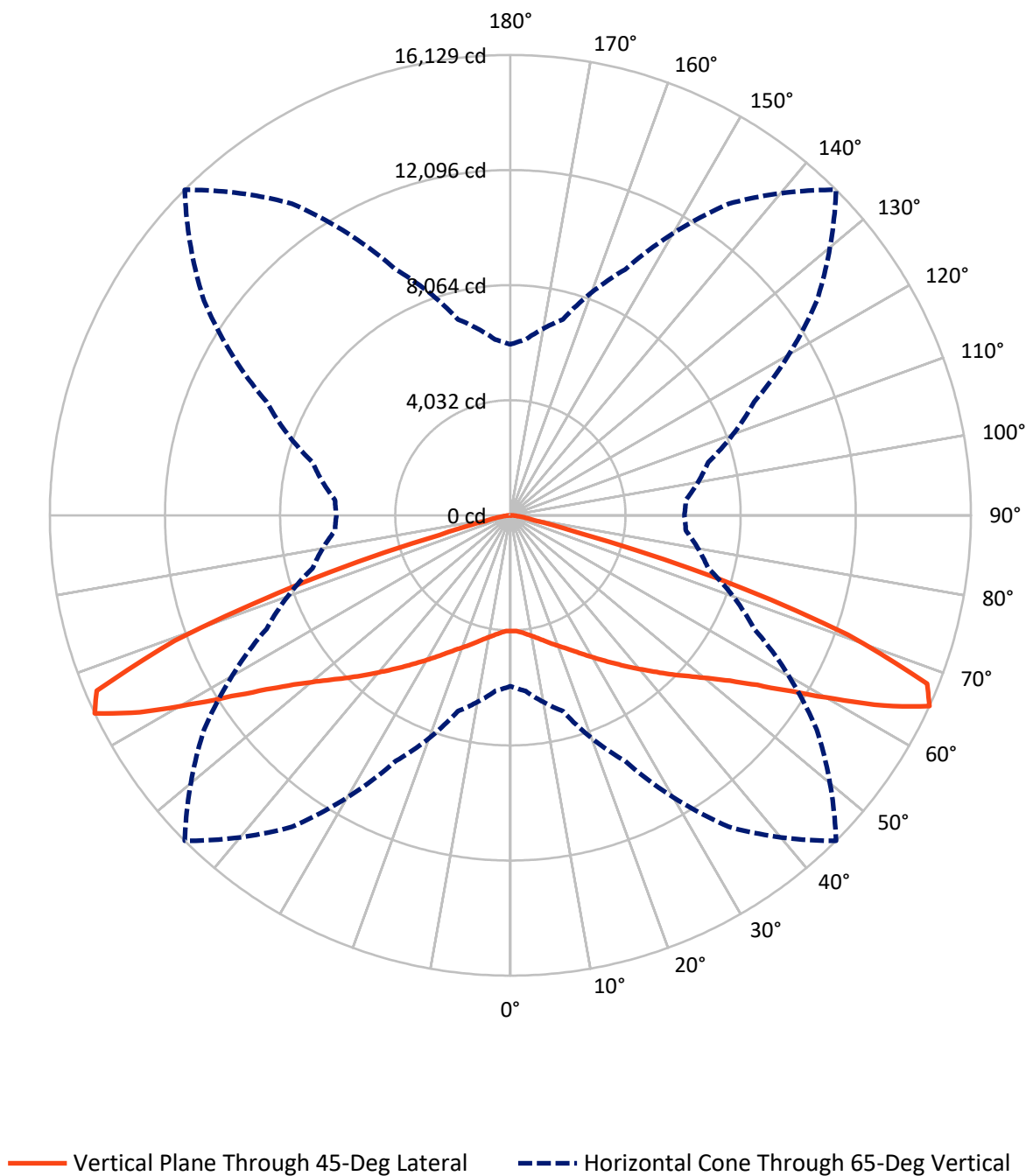
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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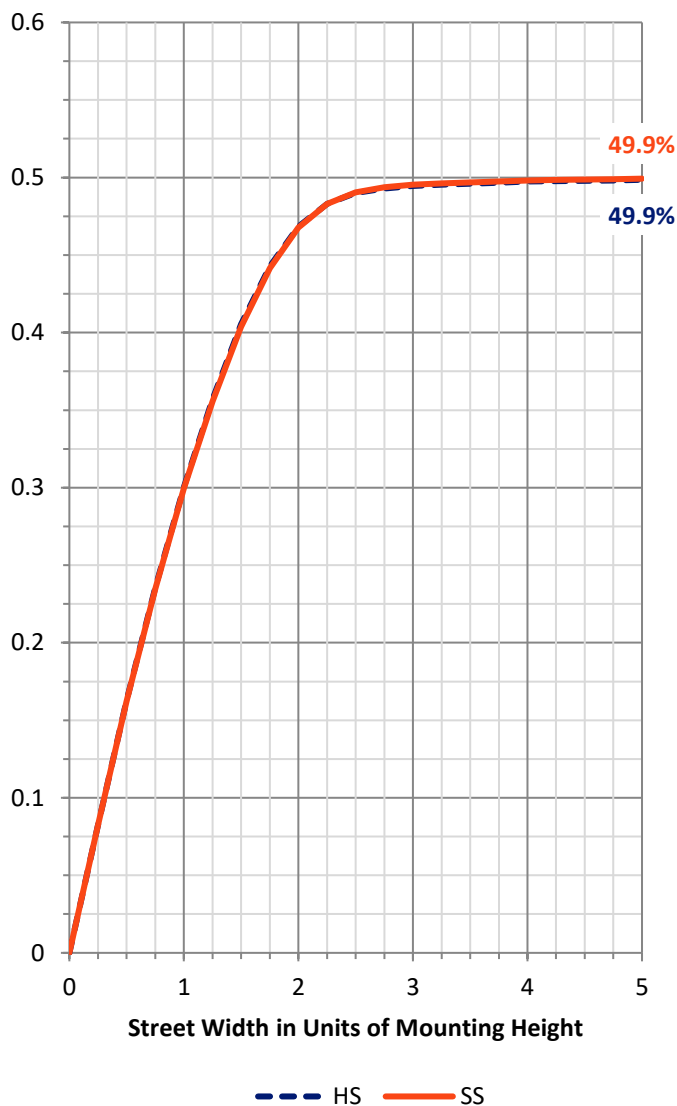
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17053.4	0.0	17053.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17053.4	0.0	17053.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	34106.9	0.0	34106.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.6	1.2
10°-20°	1307.2	3.8
20°-30°	2468.1	7.2
30°-40°	4041.4	11.8
40°-50°	6266.2	18.4
50°-60°	9256.4	27.1
60°-70°	8811.3	25.8
70°-80°	1421.8	4.2
80°-90°	134.0	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°	34106.9	100.0
0°-180°	34106.9	100.0

Coefficient of Utilization



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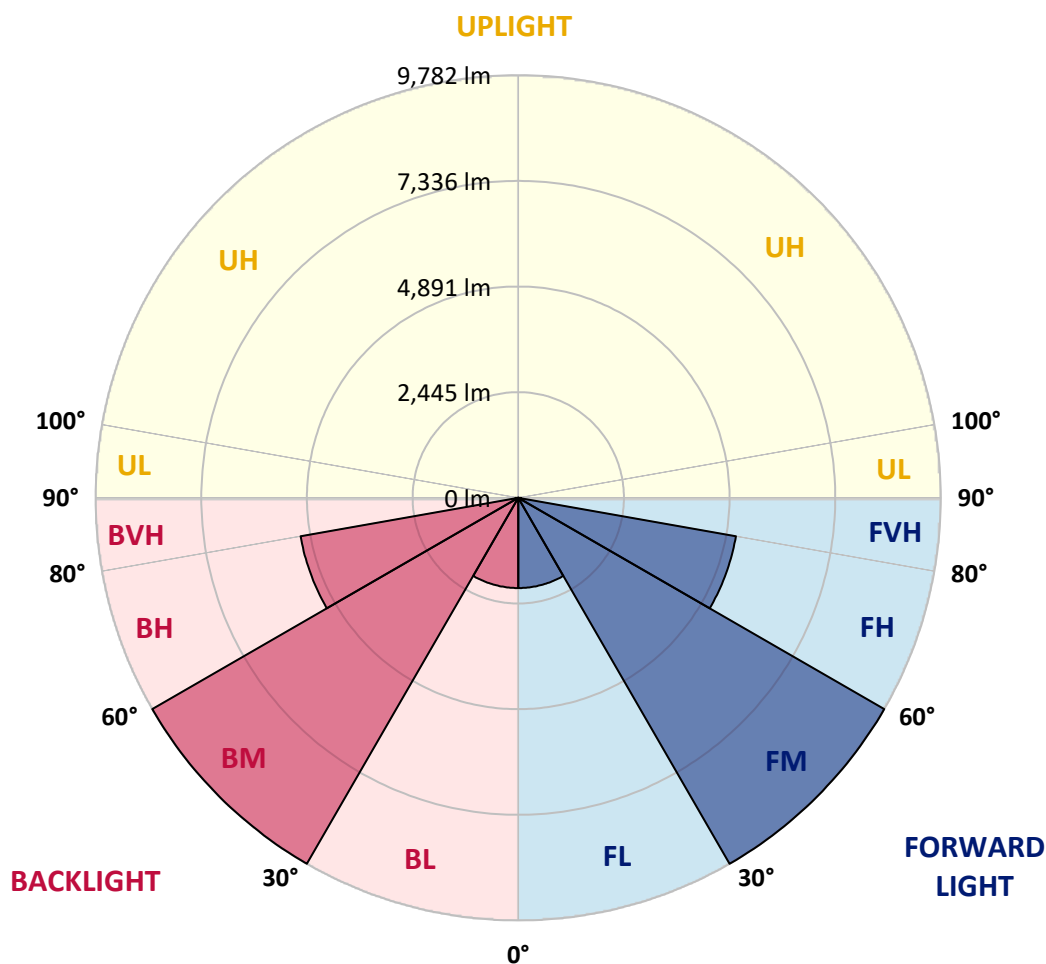
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2087.9	6.1			
FM	(30°-60°)	9782.0	28.7			
FH	(60°-80°)	5116.5	15.0			G3/7500
FVH	(80°-90°)	67.0	0.2			G1/100
BL	(0°-30°)	2087.9	6.1	B3/2500		
BM	(30°-60°)	9782.0	28.7	B5		
BH	(60°-80°)	5116.5	15.0	B5		G3/7500
BVH	(80°-90°)	67.0	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°	4059.1	4059.1	4059.1	4059.1	4059.1	4059.1	4059.1	4059.1	4059.1	4059.1	4059.1
2.5°	4086.5	4072.7	4083.0	4074.5	4067.6	4060.7	4064.2	4076.2	4081.3	4083.0	4083.0
5°	4141.2	4129.2	4134.3	4134.3	4122.3	4119.0	4120.7	4129.2	4139.5	4139.5	4139.5
7.5°	4230.2	4218.2	4230.2	4223.3	4213.1	4209.7	4207.9	4214.8	4230.2	4230.2	4225.0
10°	4338.0	4324.3	4331.1	4327.8	4315.8	4310.6	4308.9	4319.1	4332.9	4331.1	4327.8
12.5°	4456.1	4440.7	4449.2	4439.0	4435.5	4430.4	4430.4	4428.7	4437.2	4430.4	4433.8
15°	4587.8	4577.5	4581.0	4574.2	4579.3	4575.8	4562.2	4555.3	4558.8	4548.4	4550.2
17.5°	4743.6	4719.6	4731.6	4728.1	4728.1	4735.0	4712.7	4704.2	4711.0	4700.8	4709.4
20°	4923.3	4899.3	4904.4	4897.6	4889.0	4895.8	4868.4	4875.3	4880.4	4873.6	4889.0
22.5°	5120.0	5089.2	5087.5	5091.0	5072.1	5073.9	5055.0	5072.1	5082.4	5063.6	5082.4
25°	5321.9	5289.4	5311.7	5303.1	5279.2	5284.3	5270.7	5287.8	5296.3	5272.3	5299.7
27.5°	5535.8	5513.6	5534.2	5539.3	5510.2	5530.7	5510.2	5525.6	5534.2	5498.2	5525.6
30°	5785.7	5763.5	5782.2	5796.0	5761.7	5794.2	5777.1	5787.5	5789.1	5746.4	5772.0
32.5°	6057.7	6023.5	6071.5	6078.4	6040.6	6080.0	6057.7	6071.5	6080.0	6021.9	6061.2
35°	6389.7	6347.0	6401.7	6393.2	6360.6	6393.2	6372.6	6393.2	6413.7	6343.5	6386.4
37.5°	6747.4	6702.9	6761.1	6745.7	6714.9	6737.1	6725.1	6738.9	6771.4	6696.1	6742.2
40°	7141.0	7086.2	7165.0	7137.6	7108.5	7105.1	7111.9	7120.5	7163.2	7079.4	7106.7
42.5°	7561.9	7503.8	7621.9	7579.1	7538.1	7510.6	7532.8	7549.9	7591.0	7497.0	7546.6
45°	8042.9	7976.0	8130.1	8078.7	8013.8	7957.3	7993.2	8018.9	8078.7	7965.8	8024.0
47.5°	8573.3	8498.0	8662.3	8646.9	8540.8	8417.6	8499.7	8573.3	8617.8	8480.8	8527.1
50°	9091.9	9033.6	9249.3	9268.0	9138.0	8965.2	9079.9	9191.1	9203.1	9023.4	9045.6
52.5°	9577.8	9519.6	9832.8	9950.9	9834.5	9629.2	9750.6	9863.6	9772.9	9540.2	9547.0
55°	9966.3	9918.3	10317.0	10621.7	10661.0	10491.6	10563.4	10560.1	10262.3	9904.7	9916.7
57.5°	10060.4	10053.5	10556.7	11201.8	11612.4	11633.0	11491.0	11128.2	10486.5	10005.6	9974.8
60°	9632.5	9675.4	10366.6	11504.7	12599.8	13055.0	12440.7	11405.4	10231.6	9564.1	9485.3
62.5°	8352.5	8465.5	9298.9	11135.0	13397.3	14691.0	13202.2	10984.4	9184.2	8313.2	8261.9
65°	5985.9	6182.7	7103.4	9502.5	13325.4	16128.5	13092.7	9425.5	7171.8	6167.3	6093.7
67.5°	2715.7	2915.9	3698.0	6506.1	11583.4	15738.3	11556.0	6574.6	3882.8	2926.2	2883.4
70°	984.0	1018.2	1269.8	2604.5	7402.9	12540.0	7719.4	2623.3	1350.1	1085.0	1071.2
72.5°	595.5	600.6	653.6	932.6	2572.0	7613.3	2681.5	963.4	667.4	592.0	602.4
75°	378.2	374.7	465.5	569.8	912.0	2568.5	956.6	569.8	463.7	422.7	426.1
77.5°	272.1	280.6	333.7	426.1	575.0	871.0	564.7	407.2	333.7	273.8	278.9
80°	203.7	208.8	243.0	332.0	403.8	542.4	359.4	301.1	251.5	171.2	176.3
82.5°	147.2	147.2	159.2	241.3	246.4	292.6	195.1	212.2	165.9	121.5	121.5
85°	87.2	85.6	99.2	143.7	128.3	107.8	89.0	130.1	104.3	75.3	73.6
87.5°	30.9	32.5	30.9	41.1	34.2	29.1	27.4	36.0	29.1	25.6	24.0
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)