

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: P970410

Luminaire Tested: **NAV-SB6B-750-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970410
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-SB6B-750-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38803.4 lumens
Efficiency: N/A
Efficacy: 176.1 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): 220.4
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

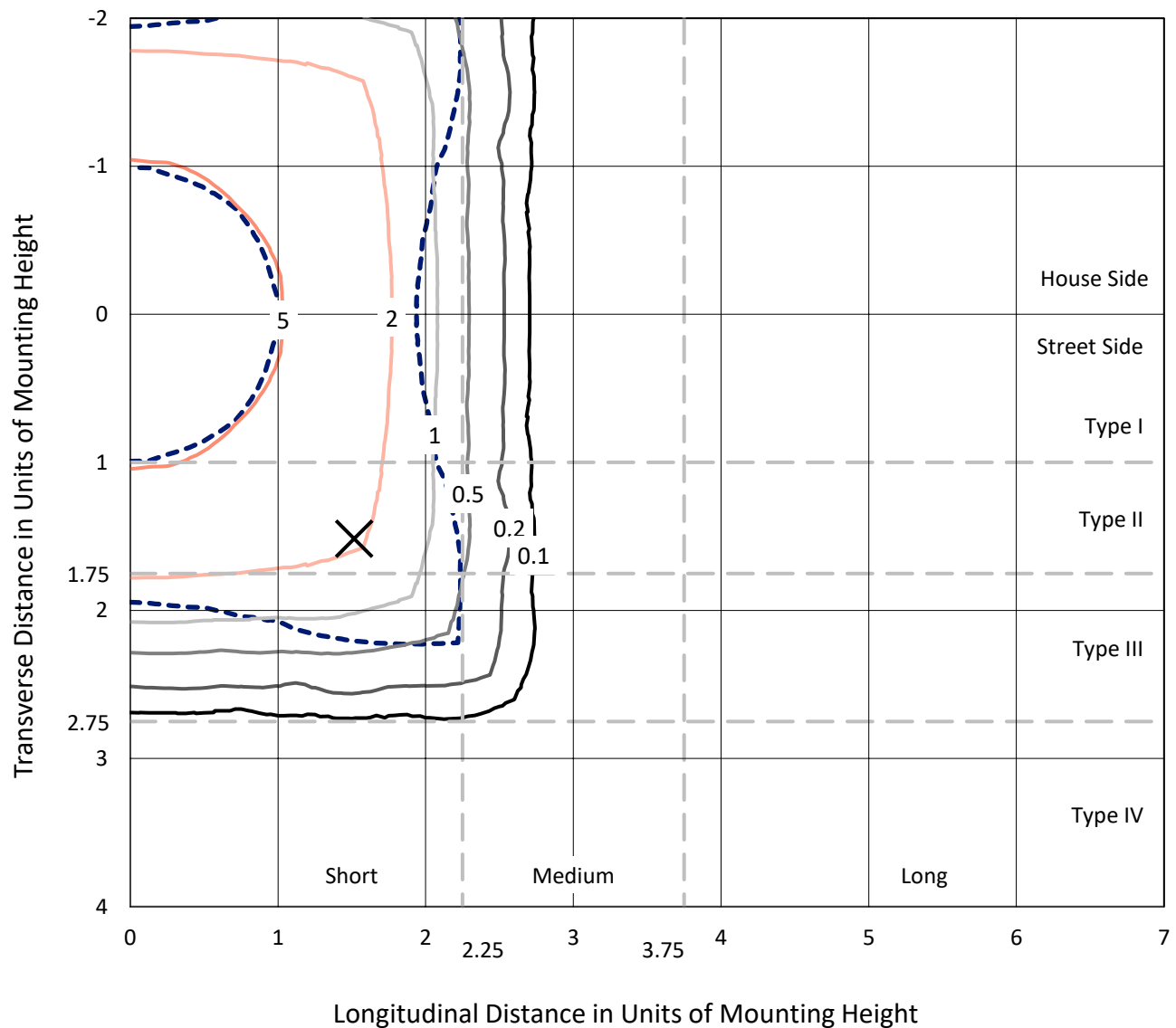


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Iso-Footcandle Lines of Horizontal Illumination

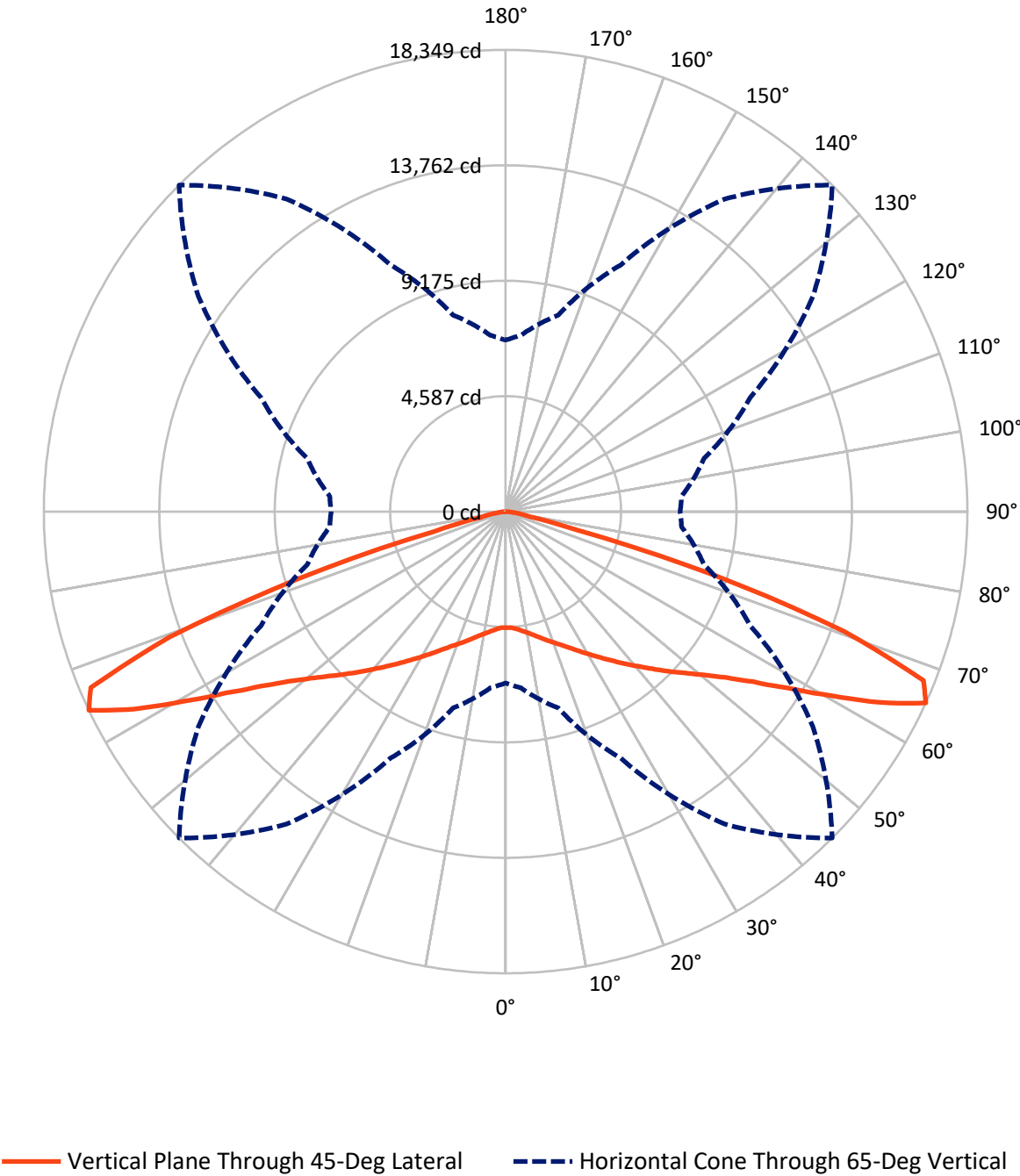
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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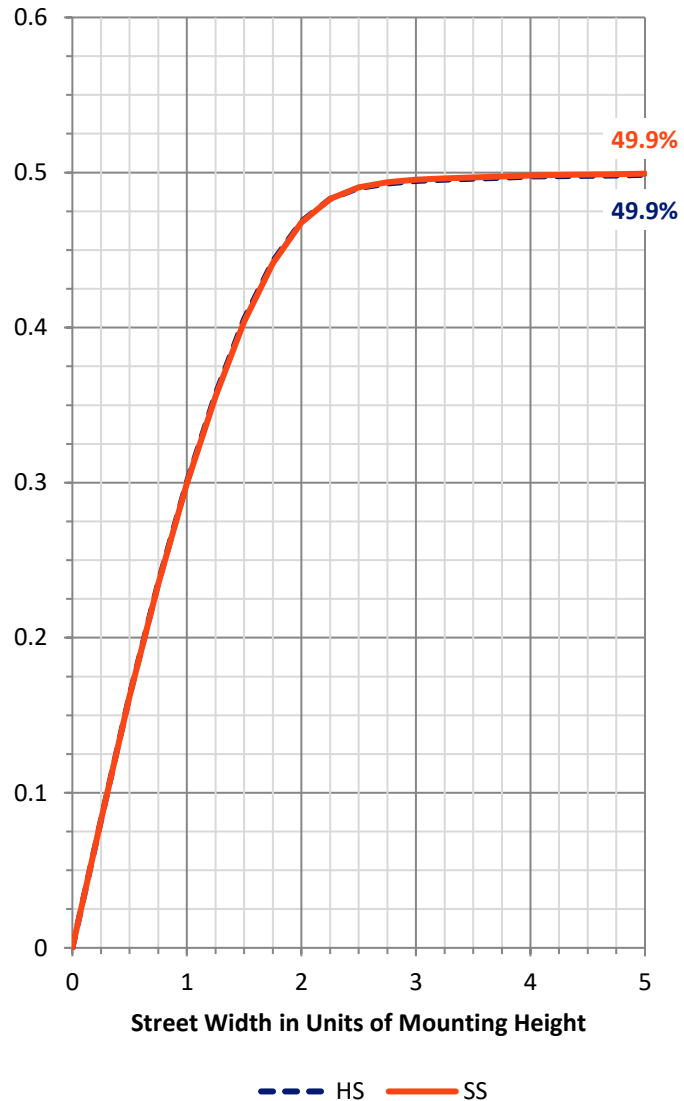
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19401.7	0.0	19401.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19401.7	0.0	19401.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	38803.4	0.0	38803.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.8	1.2
10°-20°	1487.2	3.8
20°-30°	2807.9	7.2
30°-40°	4597.9	11.8
40°-50°	7129.0	18.4
50°-60°	10531.1	27.1
60°-70°	10024.6	25.8
70°-80°	1617.6	4.2
80°-90°	152.5	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°	38803.4	100.0
0°-180°	38803.4	100.0

Coefficient of Utilization



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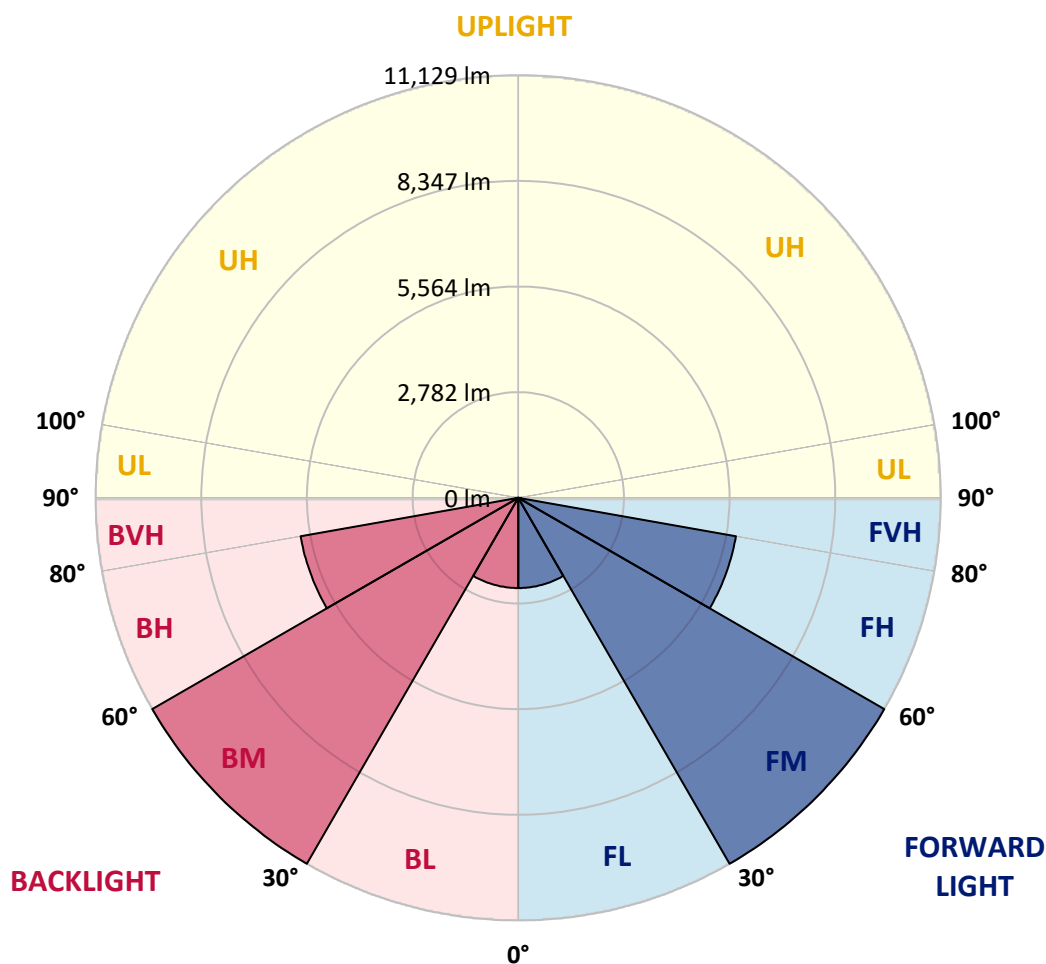
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2375.4	6.1			
FM	(30°-60°)	11129.0	28.7			
FH	(60°-80°)	5821.1	15.0			G3/7500
FVH	(80°-90°)	76.2	0.2			G1/100
BL	(0°-30°)	2375.4	6.1	B3/2500		
BM	(30°-60°)	11129.0	28.7	B5		
BH	(60°-80°)	5821.1	15.0	B5		G3/7500
BVH	(80°-90°)	76.2	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°	4618.0	4618.0	4618.0	4618.0	4618.0	4618.0	4618.0	4618.0	4618.0	4618.0	4618.0
2.5°	4649.2	4633.6	4645.3	4635.6	4627.8	4620.0	4623.9	4637.5	4643.4	4645.3	4645.3
5°	4711.4	4697.8	4703.6	4703.6	4690.0	4686.1	4688.0	4697.8	4709.5	4709.5	4709.5
7.5°	4812.7	4799.0	4812.7	4804.9	4793.2	4789.3	4787.4	4795.2	4812.7	4812.7	4806.8
10°	4935.4	4919.8	4927.6	4923.7	4910.1	4904.2	4902.3	4914.0	4929.5	4927.6	4923.7
12.5°	5069.6	5052.1	5061.9	5050.2	5046.3	5040.4	5040.4	5038.5	5048.2	5040.4	5044.3
15°	5219.6	5207.9	5211.8	5204.0	5209.9	5206.0	5190.4	5182.6	5186.5	5174.8	5176.8
17.5°	5396.7	5369.5	5383.1	5379.2	5379.2	5387.0	5361.7	5351.9	5359.7	5348.0	5357.8
20°	5601.2	5574.0	5579.8	5572.0	5562.3	5570.1	5538.9	5546.7	5552.5	5544.7	5562.3
22.5°	5825.1	5790.0	5788.1	5792.0	5770.5	5772.5	5751.1	5770.5	5782.2	5760.8	5782.2
25°	6054.8	6017.8	6043.1	6033.4	6006.1	6011.9	5996.4	6015.8	6025.6	5998.3	6029.5
27.5°	6298.1	6272.8	6296.2	6302.0	6268.9	6292.3	6268.9	6286.4	6296.2	6255.4	6286.4
30°	6582.3	6557.1	6578.6	6594.0	6555.2	6592.1	6572.7	6584.3	6586.2	6537.7	6566.9
32.5°	6892.0	6853.0	6907.5	6915.3	6872.5	6917.2	6892.0	6907.5	6917.2	6851.1	6895.9
35°	7269.6	7221.0	7283.2	7273.5	7236.5	7273.5	7250.1	7273.5	7296.9	7217.1	7265.7
37.5°	7676.5	7625.9	7692.1	7674.6	7639.5	7664.8	7651.2	7666.8	7703.8	7618.1	7670.7
40°	8124.4	8062.0	8151.6	8120.5	8087.4	8083.5	8091.2	8101.0	8149.7	8054.2	8085.4
42.5°	8603.2	8537.0	8671.4	8622.7	8576.0	8544.8	8570.1	8589.6	8636.3	8529.2	8585.7
45°	9150.3	9074.4	9249.6	9191.2	9117.3	9053.0	9093.9	9123.1	9191.2	9062.7	9129.0
47.5°	9753.9	9668.2	9855.1	9837.5	9716.9	9576.7	9670.2	9753.9	9804.4	9648.7	9701.3
50°	10343.8	10277.6	10522.9	10544.3	10396.4	10199.7	10330.2	10456.6	10470.3	10265.9	10291.2
52.5°	10896.7	10830.5	11186.7	11321.1	11188.7	10955.1	11093.3	11221.8	11118.6	10853.8	10861.6
55°	11338.7	11284.1	11737.7	12084.2	12129.0	11936.3	12018.1	12014.2	11675.5	11268.5	11282.2
57.5°	11445.7	11437.9	12010.3	12744.2	13211.5	13234.9	13073.3	12660.6	11930.5	11383.4	11348.4
60°	10959.0	11007.7	11794.2	13088.8	14334.8	14852.8	14153.8	12976.0	11640.4	10881.1	10791.5
62.5°	9502.7	9631.2	10579.3	12668.4	15242.2	16714.0	15020.1	12497.0	10448.8	9458.0	9399.6
65°	6810.2	7034.1	8081.5	10811.0	15160.4	18349.3	14895.6	10723.4	8159.4	7016.5	6932.8
67.5°	3089.7	3317.5	4207.2	7402.0	13178.4	17905.4	13147.3	7479.9	4417.4	3329.2	3280.5
70°	1119.5	1158.4	1444.6	2963.2	8422.2	14266.8	8782.4	2984.6	1536.1	1234.3	1218.7
72.5°	677.5	683.4	743.7	1061.1	2926.2	8661.7	3050.7	1096.1	759.3	673.6	685.3
75°	430.3	426.4	529.5	648.3	1037.7	2922.3	1088.3	648.3	527.6	480.9	484.7
77.5°	309.5	319.3	379.7	484.7	654.2	991.0	642.5	463.4	379.7	311.5	317.3
80°	231.6	237.5	276.4	377.7	459.5	617.2	408.9	342.7	286.2	194.6	200.5
82.5°	167.4	167.4	181.0	274.5	280.3	332.9	221.9	241.4	188.8	138.3	138.3
85°	99.3	97.4	113.0	163.5	146.1	122.7	101.3	148.0	118.8	85.7	83.7
87.5°	35.1	37.0	35.1	46.7	38.9	33.1	31.2	40.9	33.1	29.2	27.3
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)