

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: P971403

Luminaire Tested: **NAV-SB6D-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63978.4 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 440.1
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



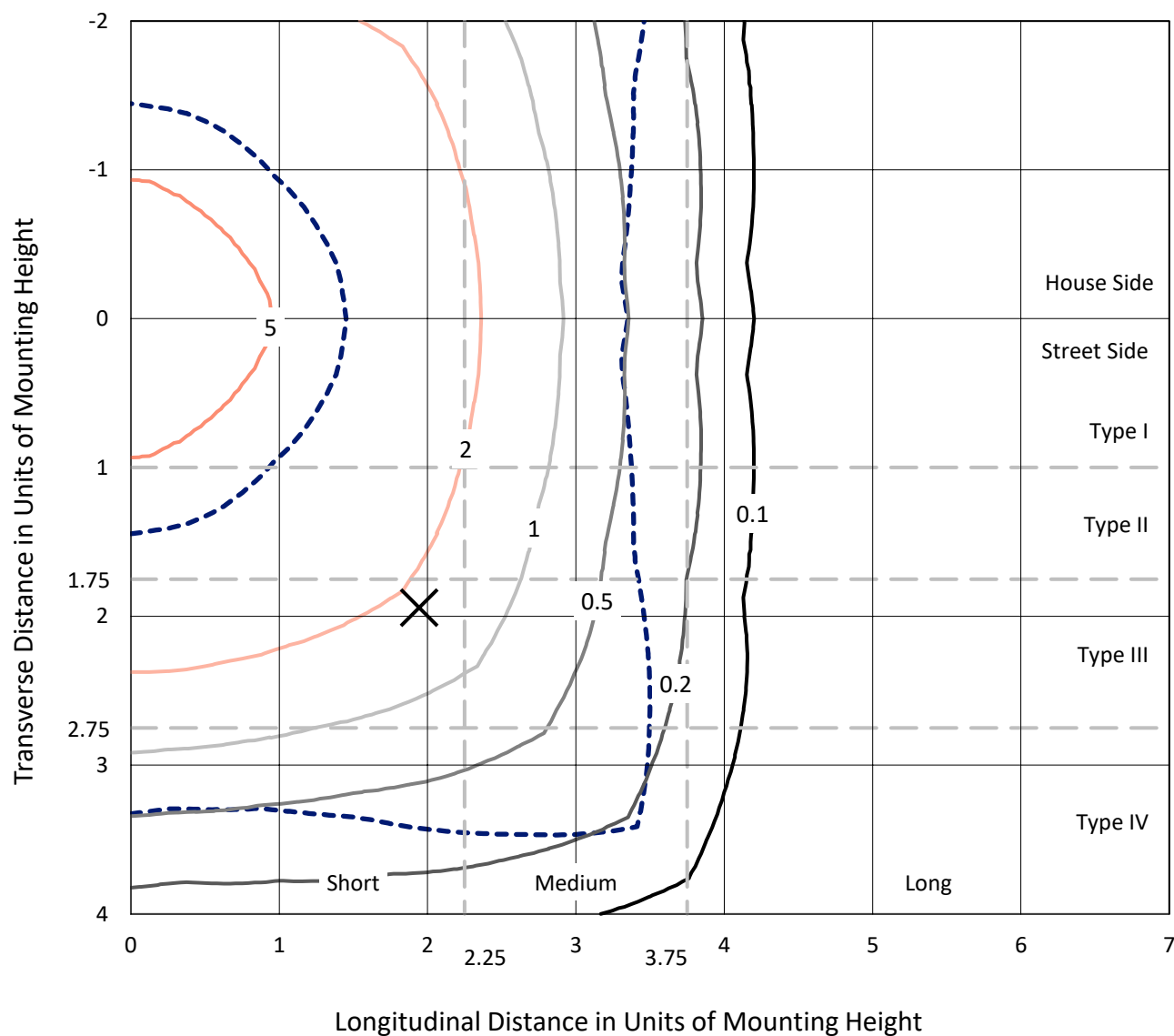
REPORT NUMBER: P971403

CATALOG NUMBER: NAV-SB6D-735-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

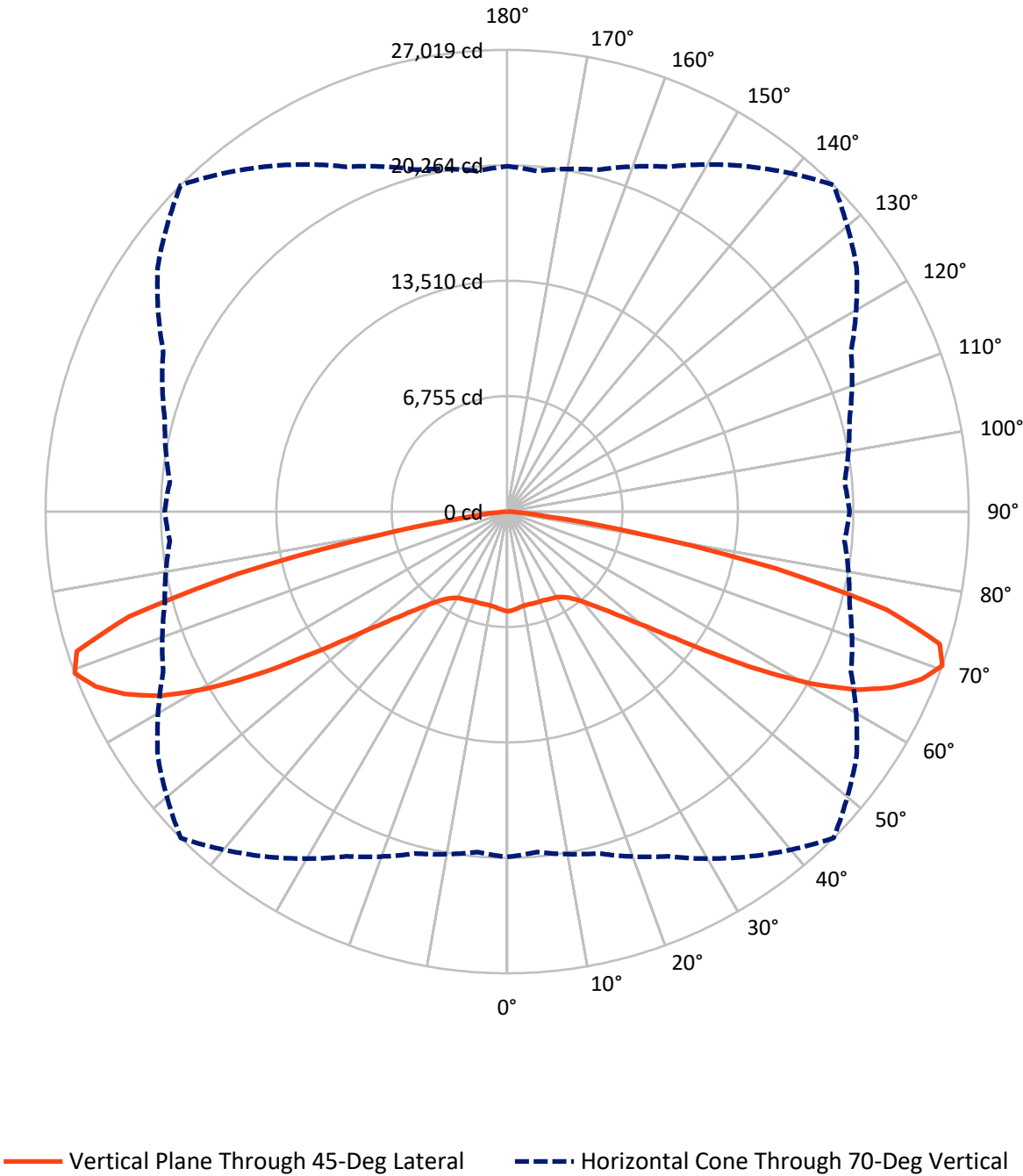


Based on 25 foot mounting height. Maximum calculated value = 9.3 fc

Type V - Short - N/A

REPORT NUMBER: P971403
CATALOG NUMBER: NAV-SB6D-735-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P971403

CATALOG NUMBER: NAV-SB6D-735-U-5WQ

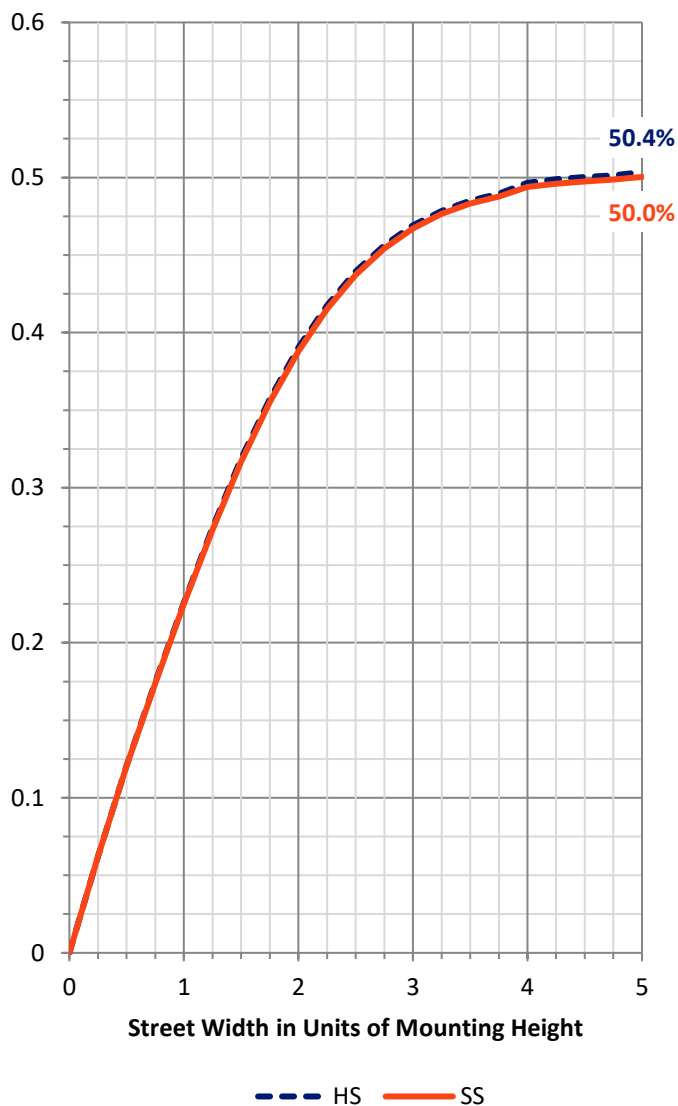
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31989.2	0.0	31989.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	31989.2	0.0	31989.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	63978.4	0.0	63978.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.9	0.8
10°-20°	1594.1	2.5
20°-30°	2652.8	4.1
30°-40°	4011.8	6.3
40°-50°	6666.7	10.4
50°-60°	12579.7	19.7
60°-70°	21241.4	33.2
70°-80°	13957.8	21.8
80°-90°	731.3	1.1
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°	63978.4	100.0
0°-180°	63978.4	100.0

Coefficient of Utilization



REPORT NUMBER: P971403

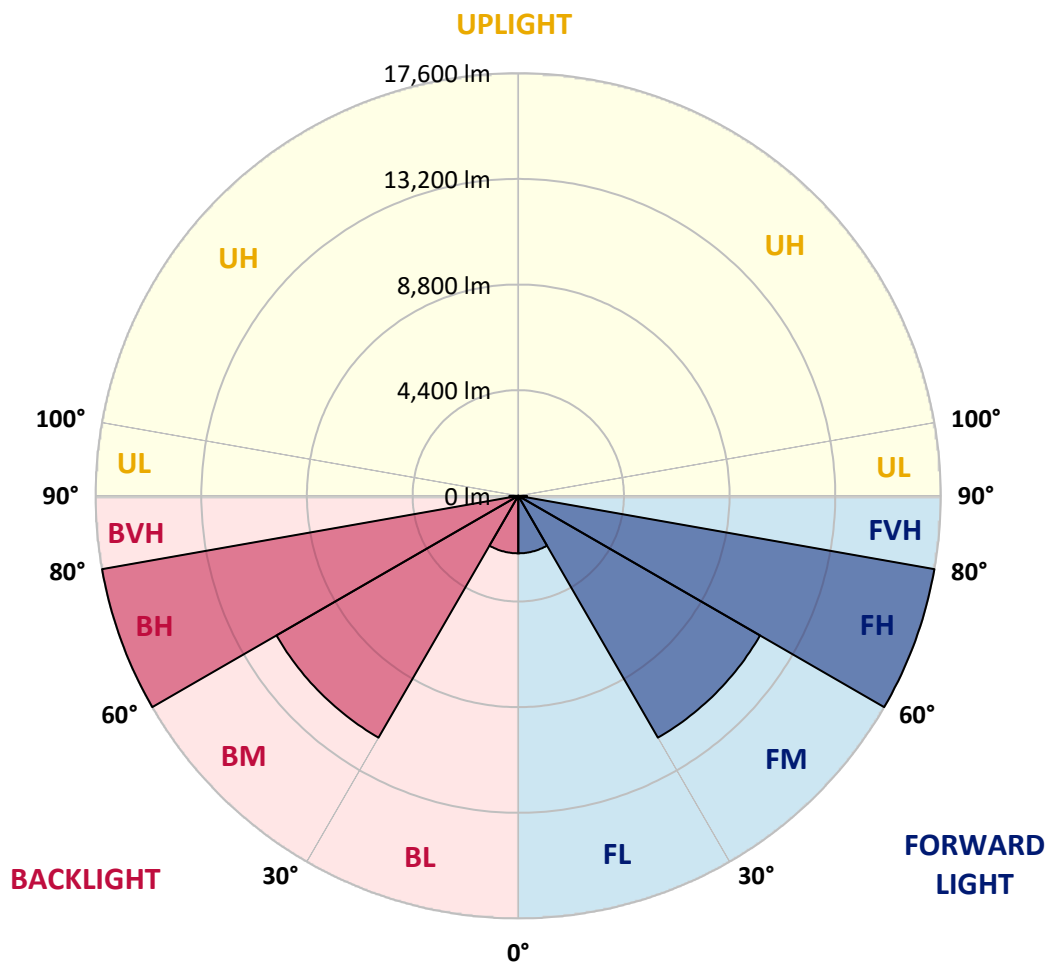
CATALOG NUMBER: NAV-SB6D-735-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2394.9	3.7			
FM	(30°-60°)	11629.1	18.2			
FH	(60°-80°)	17599.6	27.5			G5
FVH	(80°-90°)	365.6	0.6			G3/500
BL	(0°-30°)	2394.9	3.7	B3/2500		
BM	(30°-60°)	11629.1	18.2	B5		
BH	(60°-80°)	17599.6	27.5	B5		G5
BVH	(80°-90°)	365.6	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short



REPORT NUMBER: P971403

CATALOG NUMBER: NAV-SB6D-735-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5836.1	5836.1	5836.1	5836.1	5836.1	5836.1	5836.1	5836.1	5836.1	5836.1	5836.1
2.5°	5799.6	5816.2	5809.5	5796.2	5796.2	5786.2	5796.2	5802.8	5812.9	5819.5	5816.2
5°	5723.1	5736.3	5733.0	5723.1	5726.4	5716.4	5723.1	5733.0	5739.7	5743.0	5743.0
7.5°	5656.6	5669.9	5663.2	5646.6	5646.6	5636.6	5640.0	5649.9	5659.8	5663.2	5663.2
10°	5640.0	5653.2	5633.3	5606.6	5596.7	5583.4	5586.8	5596.7	5616.7	5626.6	5626.6
12.5°	5646.6	5656.6	5636.6	5596.7	5586.8	5573.4	5573.4	5583.4	5610.0	5623.3	5626.6
15°	5666.5	5676.6	5646.6	5603.4	5593.3	5583.4	5580.1	5593.3	5623.3	5646.6	5649.9
17.5°	5703.1	5713.0	5666.5	5606.6	5593.3	5596.7	5593.3	5603.4	5649.9	5693.2	5693.2
20°	5736.3	5743.0	5679.8	5606.6	5593.3	5596.7	5593.3	5613.3	5673.2	5733.0	5736.3
22.5°	5746.4	5753.0	5693.2	5629.9	5620.0	5623.3	5620.0	5640.0	5696.4	5756.3	5756.3
25°	5749.6	5759.7	5713.0	5663.2	5679.8	5686.5	5679.8	5683.1	5726.4	5779.6	5776.3
27.5°	5799.6	5812.9	5769.6	5726.4	5736.3	5733.0	5743.0	5753.0	5786.2	5839.4	5826.1
30°	5902.7	5912.6	5876.0	5832.8	5826.1	5802.8	5832.8	5866.1	5902.7	5949.2	5939.3
32.5°	6072.2	6092.2	6045.7	5999.0	5969.2	5955.9	5979.1	6035.6	6085.5	6135.4	6115.5
35°	6354.9	6368.2	6325.0	6238.5	6185.3	6185.3	6205.2	6278.4	6358.2	6421.4	6398.2
37.5°	6753.9	6770.5	6694.1	6591.0	6511.2	6511.2	6537.8	6614.2	6733.9	6823.7	6790.5
40°	7239.5	7262.7	7166.3	7059.9	6983.4	6970.1	7003.3	7089.8	7202.9	7315.9	7279.3
42.5°	7824.7	7851.3	7725.0	7631.8	7572.0	7572.0	7588.6	7668.4	7771.6	7911.2	7901.2
45°	8573.0	8619.5	8446.6	8353.4	8297.0	8310.3	8320.2	8390.0	8483.2	8642.8	8636.1
47.5°	9464.1	9510.7	9327.8	9231.4	9221.4	9284.6	9244.7	9294.6	9344.4	9527.4	9474.2
50°	10475.1	10554.9	10428.6	10421.9	10441.9	10558.2	10465.1	10491.7	10435.2	10551.6	10481.8
52.5°	11712.2	11828.5	11805.2	11845.2	12067.9	12307.4	12094.6	12001.4	11788.6	11825.2	11702.2
55°	13211.9	13388.1	13421.5	13660.9	14166.3	14655.1	14202.9	13827.1	13374.8	13291.7	13162.0
57.5°	14917.8	15057.6	15217.1	15706.0	16650.4	17518.4	16650.4	15819.0	15107.4	14937.8	14818.1
60°	16753.5	16926.4	17079.4	17801.0	19204.3	20424.8	19177.8	17857.6	16916.4	16687.0	16487.4
62.5°	18725.5	18948.3	19054.6	19856.1	21492.2	22948.7	21515.5	19916.0	18871.8	18625.7	18426.2
65°	20617.7	20800.5	20920.2	21774.9	23337.8	24797.7	23444.2	21868.0	20793.9	20471.3	20311.7
67.5°	21498.9	21598.6	21891.2	22858.9	24508.4	26174.4	24787.7	22962.0	21761.6	21196.3	21202.9
70°	20208.6	20005.7	20710.7	22260.4	24648.1	27019.1	24967.3	22213.8	20744.1	19826.2	20045.6
72.5°	15616.2	15267.1	16490.8	19141.2	23051.8	26480.4	23211.4	19290.8	17252.3	15390.1	15852.3
75°	8496.4	8100.8	9790.1	13142.0	18383.0	22952.1	18805.3	13517.9	10900.8	8433.3	8982.0
77.5°	2397.7	2248.0	3611.4	6358.2	11057.1	16115.0	11482.7	6497.9	4283.2	2540.7	2823.3
80°	734.9	711.7	964.4	1915.4	4695.5	7718.4	4512.6	1938.7	1227.1	774.8	818.1
82.5°	435.6	399.0	478.9	698.3	1197.2	2424.2	1163.9	728.3	585.3	392.4	425.7
85°	249.4	232.8	282.7	339.2	402.4	515.5	335.9	345.8	312.6	209.5	219.5
87.5°	103.1	93.1	109.8	106.4	93.1	119.7	89.8	106.4	126.4	83.1	76.5
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)