

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: P968771

Luminaire Tested: **NAV-SB5C-735-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-735-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39929.9 lumens
Efficiency: N/A
Efficacy: 160.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

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

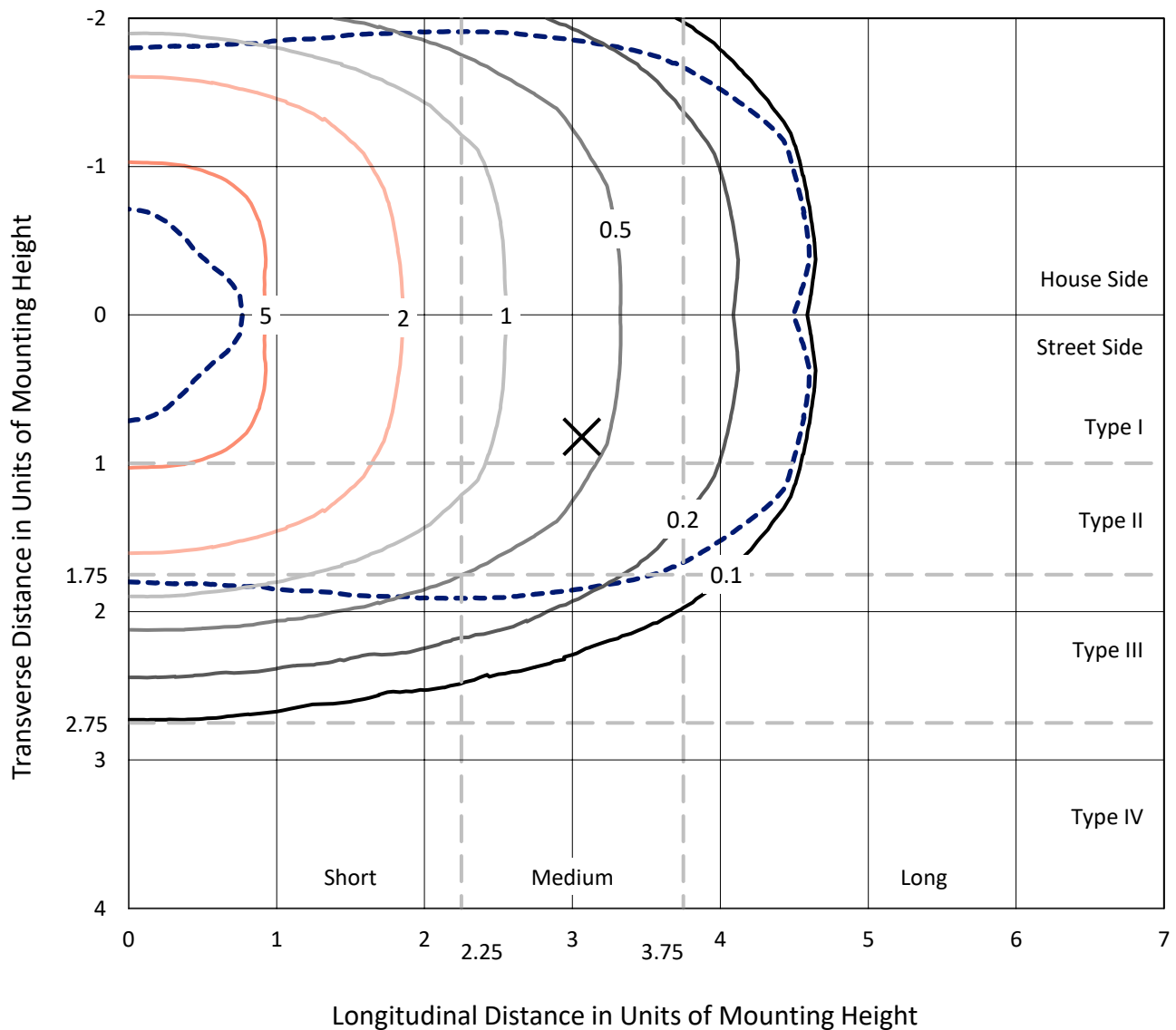


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Iso-Footcandle Lines of Horizontal Illumination

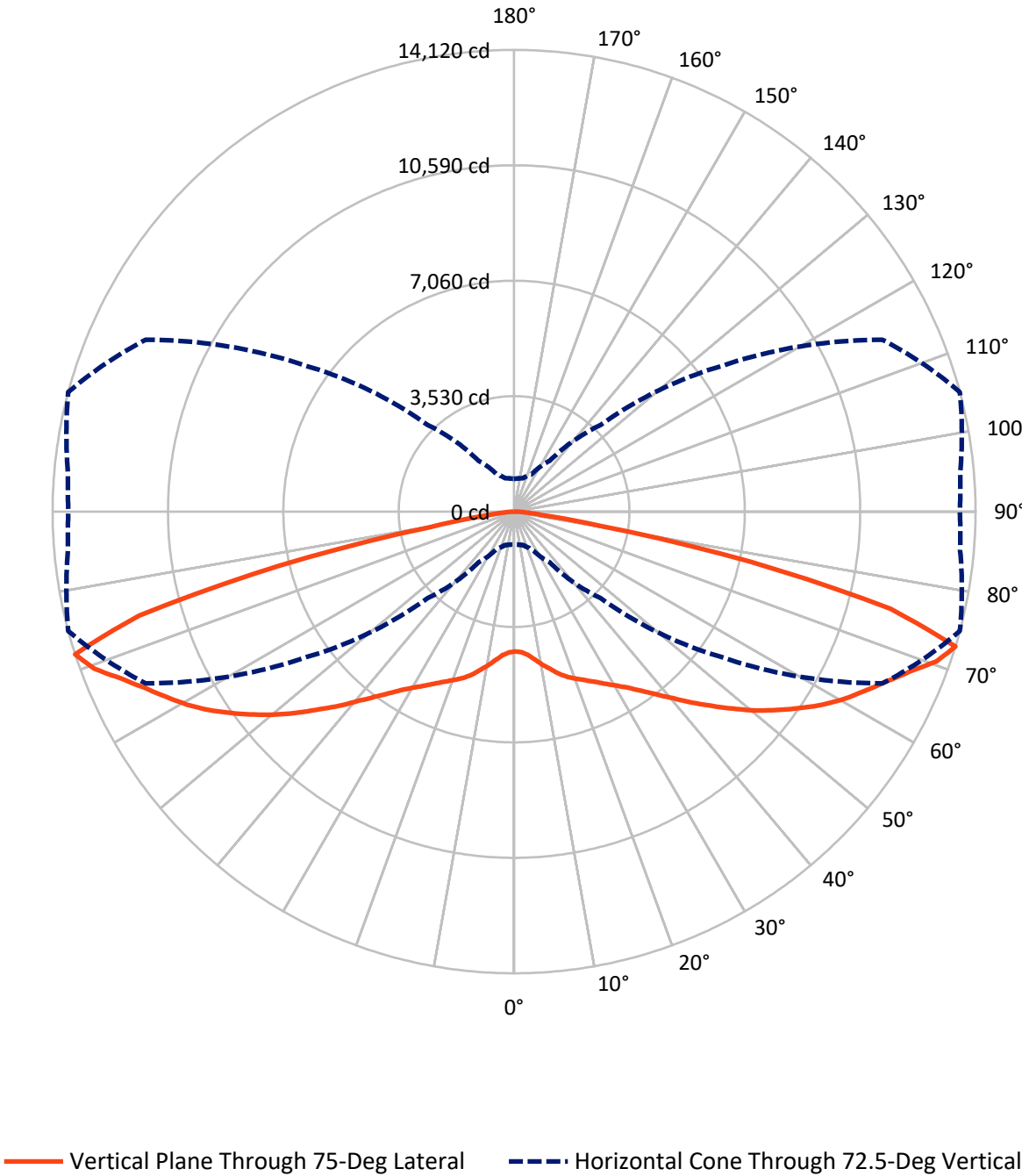
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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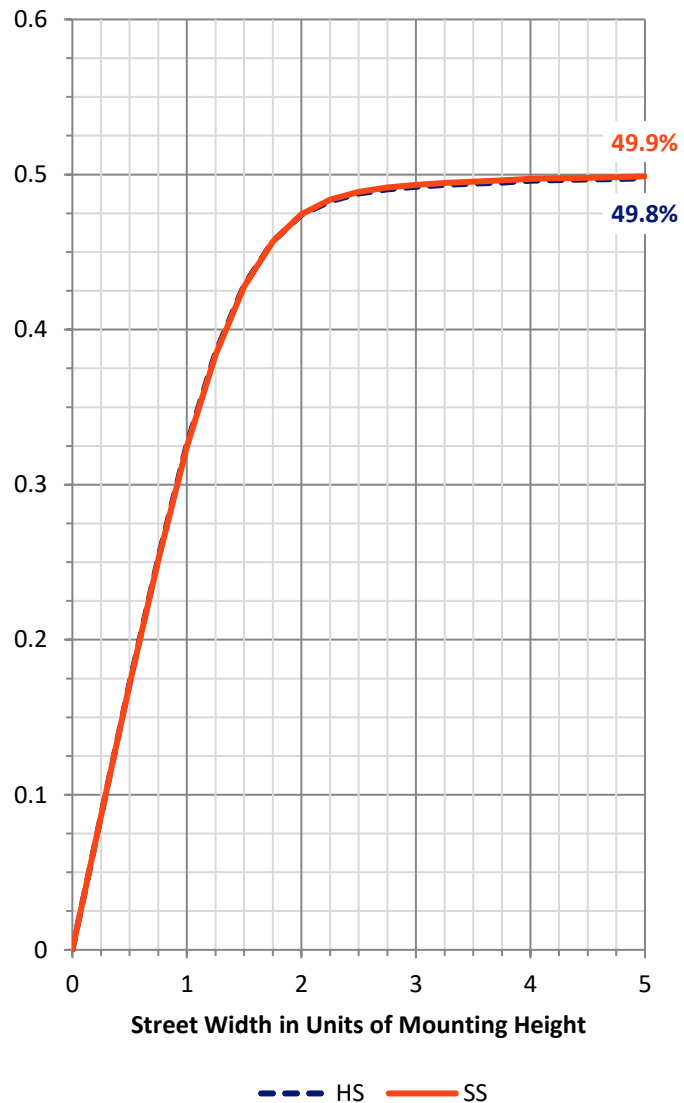
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19964.9	0.0	19964.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19964.9	0.0	19964.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	39929.9	0.0	39929.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.0	1.0
10°-20°	1381.9	3.5
20°-30°	2670.2	6.7
30°-40°	4508.9	11.3
40°-50°	7150.6	17.9
50°-60°	9573.8	24.0
60°-70°	9111.2	22.8
70°-80°	4754.4	11.9
80°-90°	359.9	0.9
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°	39929.9	100.0
0°-180°	39929.9	100.0

Coefficient of Utilization



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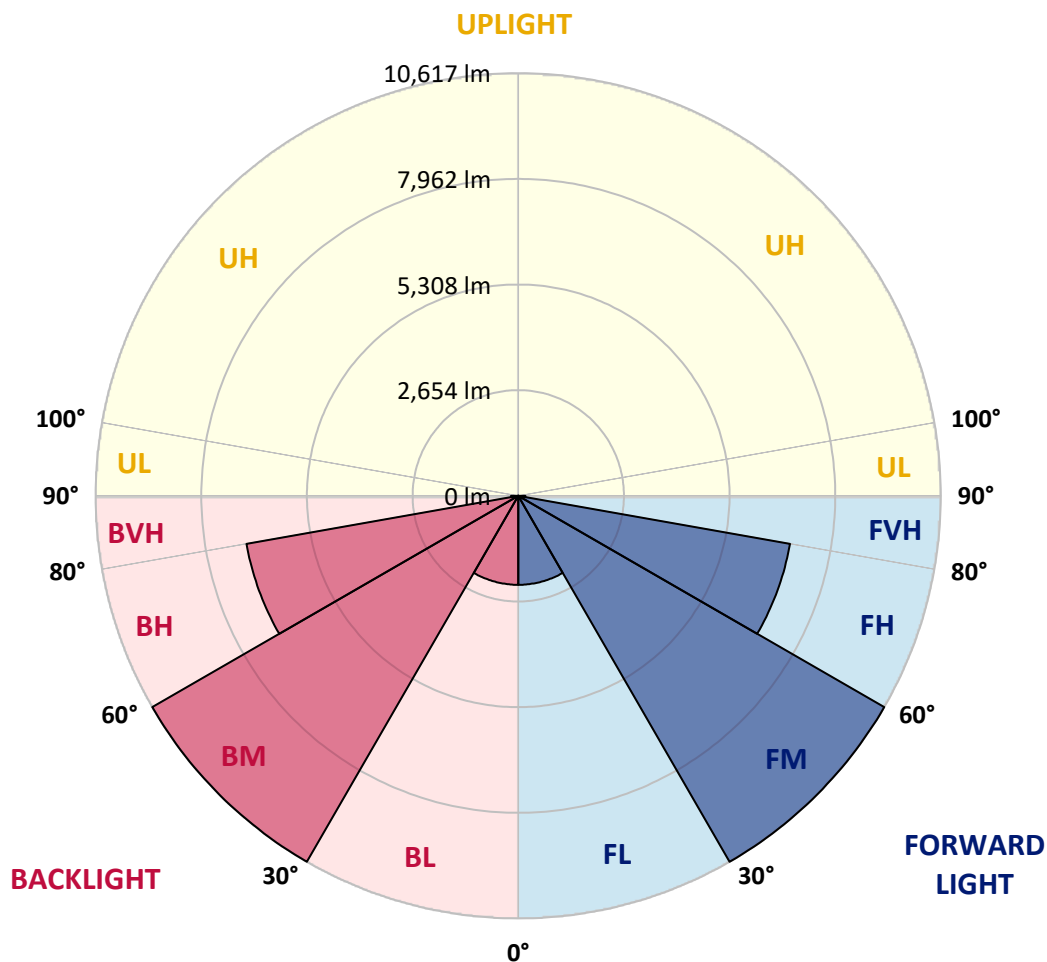
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2235.6	5.6			
FM	(30°-60°)	10616.6	26.6			
FH	(60°-80°)	6932.8	17.4			G3/7500
FVH	(80°-90°)	179.9	0.5			G2/225
BL	(0°-30°)	2235.6	5.6	B3/2500		
BM	(30°-60°)	10616.6	26.6	B5		
BH	(60°-80°)	6932.8	17.4	B5		G5
BVH	(80°-90°)	179.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4277.2	4277.2	4277.2	4277.2	4277.2	4277.2	4277.2	4277.2	4277.2	4277.2	4277.2
2.5°	4277.2	4273.1	4277.2	4281.3	4279.3	4279.3	4289.4	4295.6	4307.8	4305.7	4303.7
5°	4248.6	4246.7	4263.0	4281.3	4295.6	4320.1	4350.6	4373.1	4401.6	4407.7	4407.7
7.5°	4234.4	4228.2	4256.8	4289.4	4334.3	4395.4	4454.5	4515.7	4564.6	4580.9	4585.0
10°	4244.6	4246.7	4285.3	4346.5	4417.9	4503.5	4587.1	4691.0	4760.4	4776.7	4793.0
12.5°	4291.5	4287.4	4352.7	4450.4	4548.3	4656.4	4754.3	4868.4	4943.9	4982.6	4998.9
15°	4377.1	4369.0	4460.7	4605.4	4748.1	4874.6	4954.0	5062.1	5149.8	5198.7	5217.0
17.5°	4479.0	4483.1	4603.4	4791.0	4978.5	5121.2	5196.6	5251.7	5319.0	5361.8	5382.2
20°	4658.4	4666.6	4801.2	5023.4	5237.4	5400.5	5461.7	5441.3	5459.7	5492.3	5516.8
22.5°	4899.0	4903.1	5054.0	5294.5	5518.8	5698.2	5739.0	5655.3	5604.4	5626.8	5643.1
25°	5178.3	5204.8	5355.7	5602.3	5832.8	6004.0	6022.4	5895.9	5769.5	5775.7	5785.8
27.5°	5518.8	5543.2	5696.1	5940.8	6175.2	6324.0	6322.0	6152.8	5967.3	5920.4	5934.6
30°	5887.8	5914.2	6071.3	6324.0	6542.2	6672.6	6644.2	6442.3	6177.3	6089.6	6099.8
32.5°	6326.1	6342.4	6501.5	6754.2	6956.1	7060.0	7001.0	6752.2	6421.9	6322.0	6346.5
35°	6856.1	6880.6	6998.9	7237.4	7414.7	7500.4	7400.5	7106.9	6735.9	6623.8	6640.1
37.5°	7461.7	7445.4	7579.9	7791.9	7938.7	7991.7	7855.1	7506.5	7094.7	6962.2	6986.6
40°	8093.7	8085.5	8232.3	8436.2	8515.7	8548.3	8346.5	7965.3	7508.5	7365.9	7412.7
42.5°	8666.6	8660.4	8858.2	9084.5	9180.3	9143.6	8888.8	8452.5	7987.6	7824.5	7865.3
45°	9125.3	9117.1	9359.7	9677.7	9865.3	9804.1	9461.7	8990.7	8472.9	8303.6	8342.4
47.5°	9478.0	9482.1	9742.9	10136.4	10464.6	10487.1	10046.7	9539.1	9007.0	8815.4	8872.5
50°	9732.8	9745.0	10024.3	10460.6	10909.1	11106.9	10644.1	10101.8	9559.5	9343.4	9408.7
52.5°	9796.0	9818.4	10154.8	10666.6	11194.5	11571.7	11251.6	10642.1	10083.4	9877.5	9930.5
55°	9459.6	9504.4	9930.5	10650.2	11369.9	11877.5	11785.8	11190.4	10611.5	10399.4	10458.6
57.5°	8687.0	8750.1	9247.6	10187.4	11331.2	12087.5	12199.7	11716.5	11139.5	10935.6	10982.5
60°	7604.4	7679.8	8156.8	9182.4	10784.7	12165.0	12491.2	12228.1	11624.7	11426.9	11469.7
62.5°	5971.3	6069.2	6640.1	7842.9	9630.9	11804.1	12739.9	12690.9	12061.0	11814.4	11842.8
65°	3830.7	3934.7	4536.1	5957.1	8091.7	10699.2	12817.3	13141.5	12521.7	12177.2	12220.0
67.5°	2309.8	2356.8	2654.4	3610.6	5914.2	9033.5	12160.9	13641.0	13059.9	12631.8	12664.5
70°	1478.0	1504.6	1681.9	2120.2	3343.4	6591.2	10534.0	13734.8	13712.3	13098.7	13094.6
72.5°	1003.1	1011.2	1058.1	1255.8	1891.9	3745.1	7769.5	12434.1	14120.1	13700.2	13634.9
75°	733.9	778.8	854.2	888.9	1074.4	1871.5	4452.5	8735.9	11899.9	12083.4	11639.0
77.5°	546.3	548.4	652.4	693.2	766.6	996.9	1883.7	4876.5	7388.3	7757.3	6919.4
80°	462.8	438.3	436.2	558.6	577.0	621.8	841.9	1684.0	2646.2	1604.4	1213.0
82.5°	385.3	358.9	324.1	436.2	393.5	381.2	364.9	685.0	841.9	413.9	352.7
85°	269.1	256.9	244.7	285.5	224.3	191.7	175.4	320.1	354.8	175.4	155.0
87.5°	116.2	120.2	122.3	126.4	93.8	67.2	67.2	89.7	89.7	69.3	50.9
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)