

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: P969867

Luminaire Tested: **NAV-SB6A-740-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29181.8 lumens
Efficiency: N/A
Efficacy: 170.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

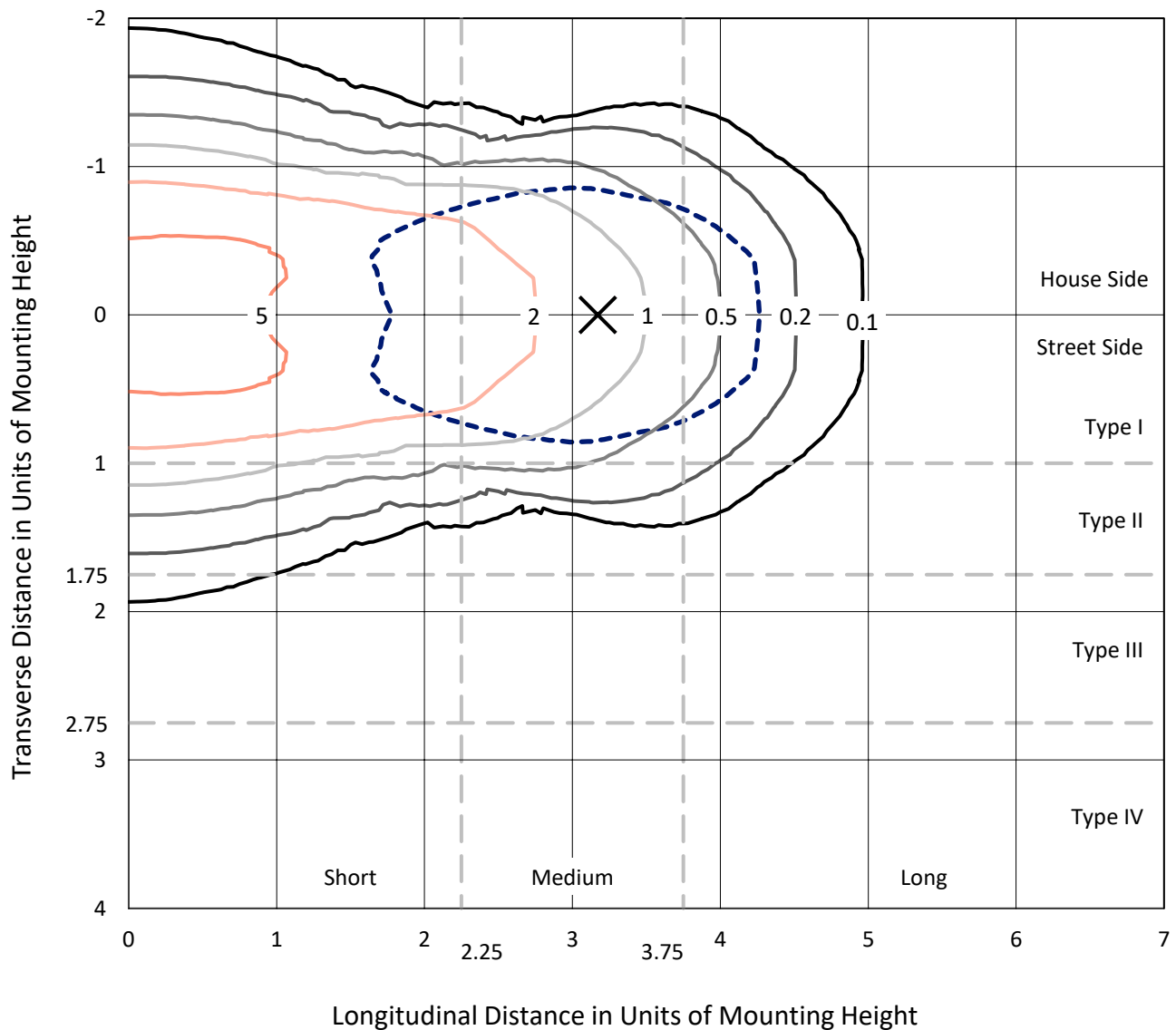
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

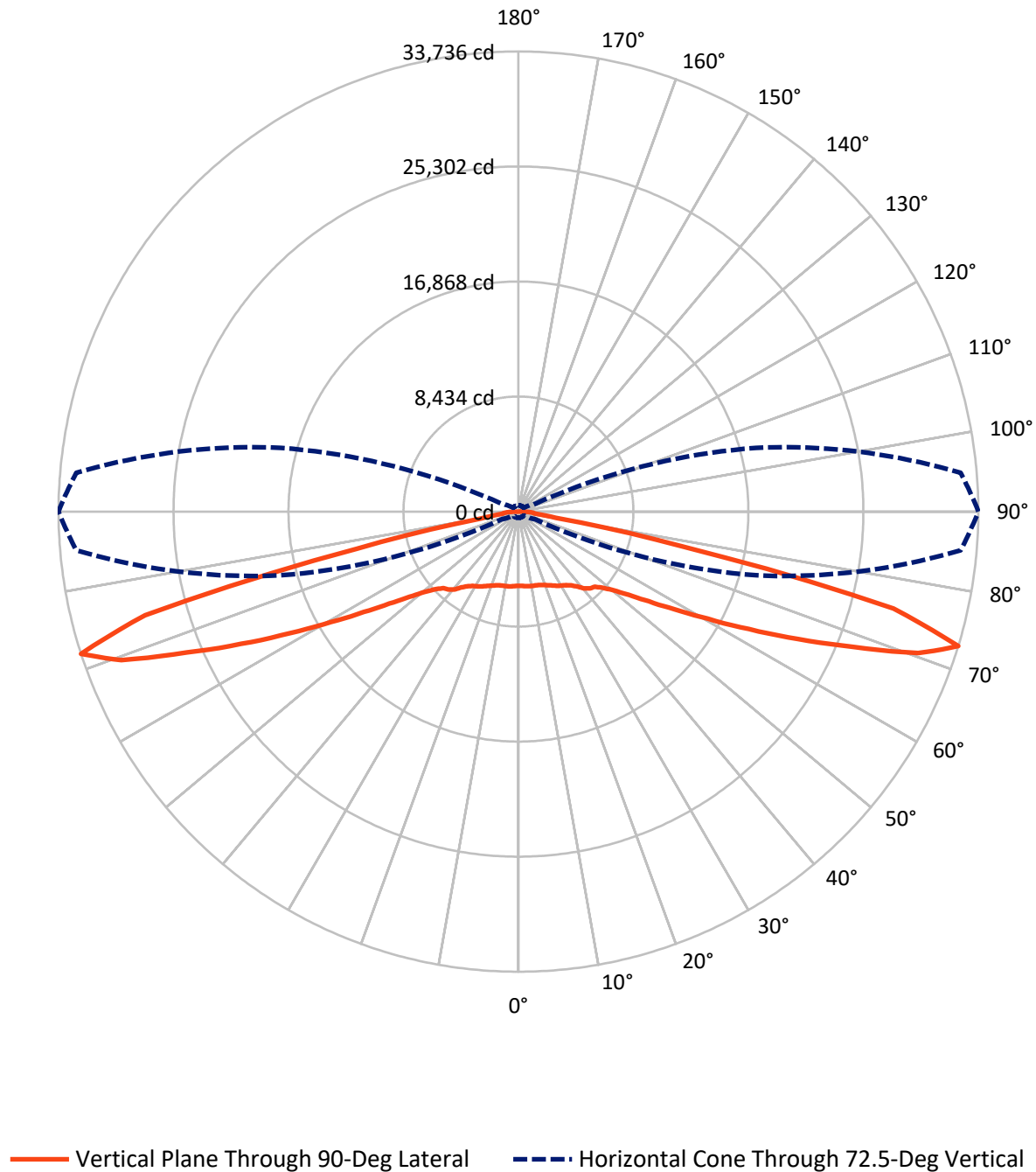
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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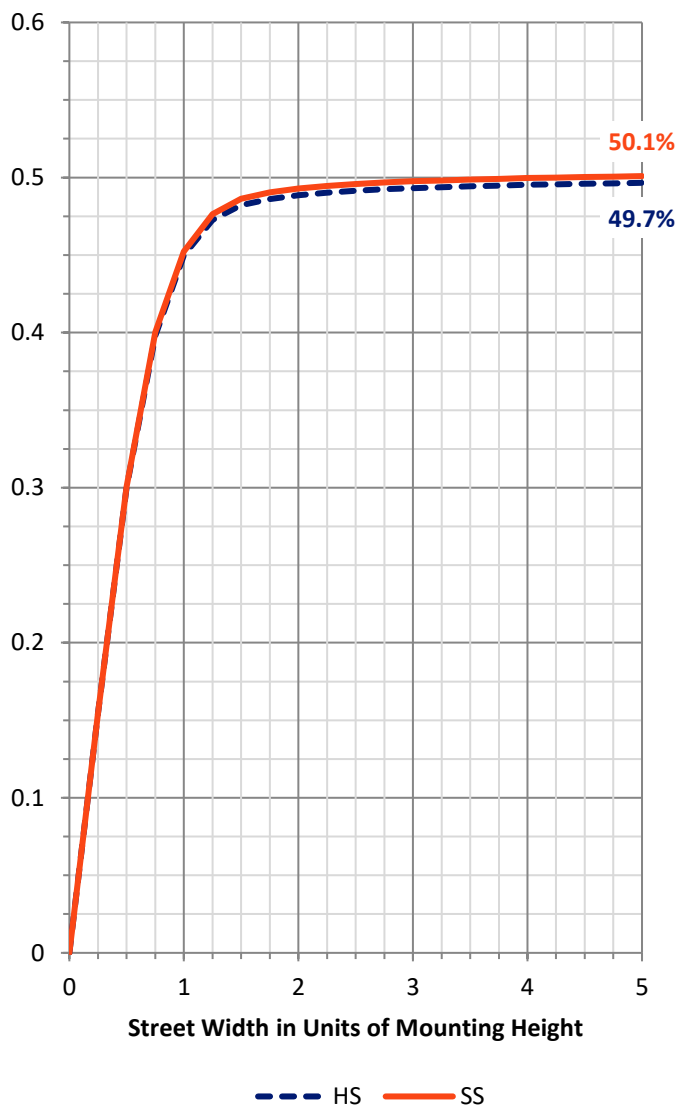
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14590.9	0.0	14590.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14590.9	0.0	14590.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	29181.8	0.0	29181.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.7	1.8
10°-20°	1616.6	5.5
20°-30°	2695.6	9.2
30°-40°	3707.3	12.7
40°-50°	4527.6	15.5
50°-60°	5236.6	17.9
60°-70°	6243.8	21.4
70°-80°	4357.8	14.9
80°-90°	267.7	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°	29181.8	100.0
0°-180°	29181.8	100.0

Coefficient of Utilization



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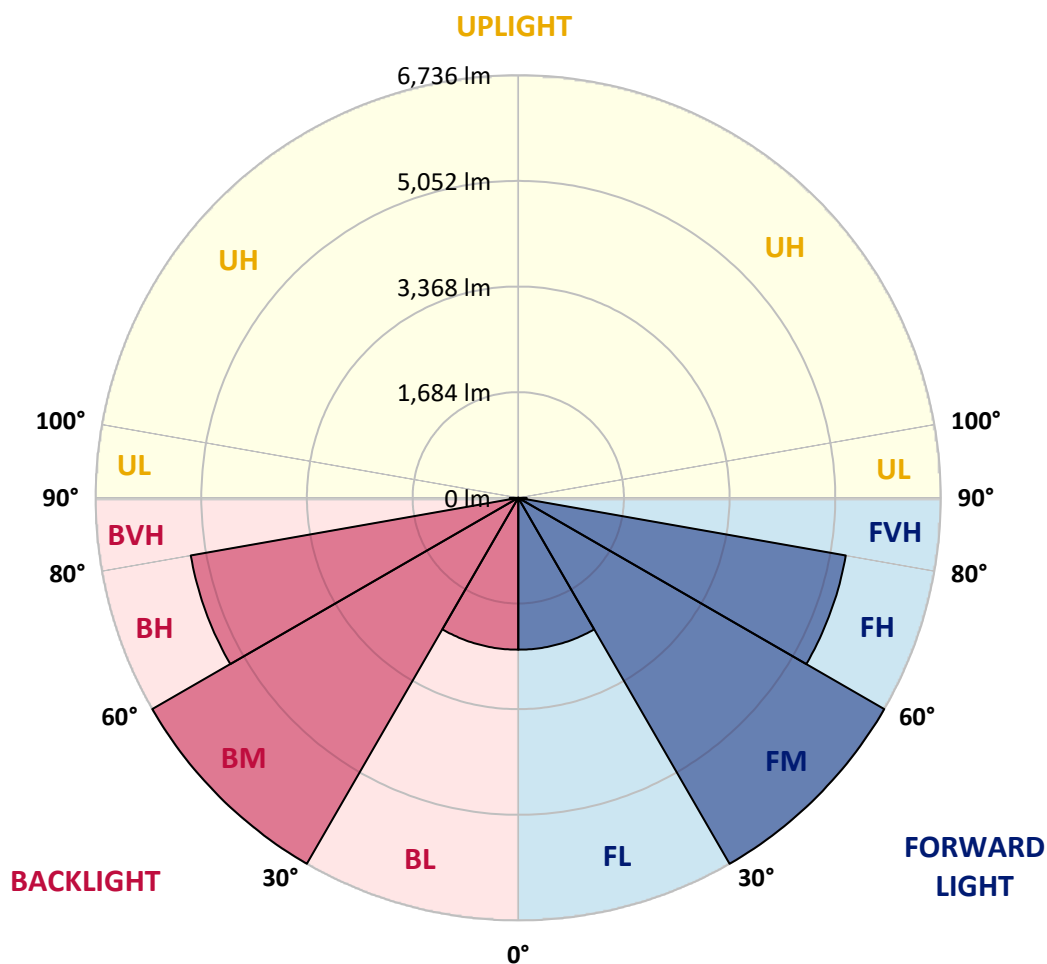
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2420.5	8.3			
FM	(30°-60°)	6735.8	23.1			
FH	(60°-80°)	5300.8	18.2			G3/7500
FVH	(80°-90°)	133.8	0.5			G2/225
BL	(0°-30°)	2420.5	8.3	B3/2500		
BM	(30°-60°)	6735.8	23.1	B4/8500		
BH	(60°-80°)	5300.8	18.2	B5		G5
BVH	(80°-90°)	133.8	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5452.9	5452.9	5452.9	5452.9	5452.9	5452.9	5452.9	5452.9	5452.9	5452.9	5452.9
2.5°	5457.6	5463.8	5463.8	5459.2	5470.0	5460.7	5460.7	5456.0	5460.7	5456.0	5456.0
5°	5485.5	5493.3	5496.4	5494.8	5508.8	5501.0	5501.0	5494.8	5496.4	5491.6	5491.6
7.5°	5538.2	5549.0	5555.3	5563.0	5583.2	5573.8	5567.7	5549.0	5541.4	5529.0	5529.0
10°	5555.3	5567.7	5587.9	5628.2	5674.7	5676.2	5657.6	5611.2	5575.5	5547.5	5542.9
12.5°	5502.5	5519.6	5561.4	5643.6	5747.6	5789.5	5760.0	5682.5	5612.7	5563.0	5555.3
15°	5435.9	5454.4	5518.1	5642.1	5795.7	5893.3	5890.3	5787.9	5676.2	5598.7	5586.2
17.5°	5331.9	5350.6	5442.0	5615.8	5832.9	5994.2	6037.6	5932.2	5775.5	5671.6	5654.5
20°	5144.3	5161.4	5288.5	5532.0	5845.3	6101.2	6214.4	6121.3	5925.9	5784.8	5758.4
22.5°	4900.8	4927.2	5076.0	5387.8	5815.8	6212.8	6416.0	6352.4	6101.2	5905.7	5870.1
25°	4640.3	4668.2	4841.9	5211.0	5739.8	6293.5	6654.8	6614.5	6299.8	6056.2	6006.6
27.5°	4415.4	4444.8	4634.0	5035.7	5621.9	6324.6	6890.6	6910.8	6540.1	6222.2	6169.5
30°	4238.6	4266.5	4468.1	4894.6	5470.0	6293.5	7096.9	7236.4	6785.1	6366.4	6290.4
32.5°	4044.8	4080.4	4292.9	4722.5	5290.0	6219.1	7276.8	7588.5	7068.9	6521.5	6425.3
35°	3799.7	3832.3	4055.6	4486.7	5054.4	6099.7	7427.2	7979.3	7475.3	6757.2	6650.2
37.5°	3501.9	3533.0	3754.7	4192.0	4820.2	5932.2	7541.9	8419.8	7959.1	7096.9	6954.2
40°	3202.6	3232.0	3439.9	3863.2	4539.4	5718.2	7582.3	8850.9	8514.4	7563.7	7411.7
42.5°	2928.1	2954.5	3145.2	3539.1	4224.6	5445.2	7529.5	9226.2	9012.2	7889.3	7694.0
45°	2675.2	2698.5	2867.5	3235.1	3897.4	5113.3	7371.4	9629.5	9604.7	8122.0	7858.4
47.5°	2386.8	2410.1	2585.4	2940.5	3570.2	4724.0	7103.0	10026.4	10428.1	8649.3	8345.3
50°	2034.7	2054.9	2234.8	2600.8	3230.5	4309.9	6730.9	10338.3	11467.3	9448.0	9066.5
52.5°	1617.6	1639.3	1814.6	2180.6	2827.3	3864.8	6240.8	10541.4	12667.7	10614.3	10144.3
55°	1203.5	1219.0	1370.9	1699.8	2327.9	3357.7	5626.6	10598.8	14029.3	12208.6	11620.8
57.5°	873.2	882.4	980.2	1225.2	1764.9	2723.3	4880.6	10449.9	15650.0	14252.6	13512.9
60°	707.2	710.3	739.7	848.3	1226.7	2006.8	3979.6	9938.1	17408.7	16887.6	15955.6
62.5°	642.1	642.1	649.8	679.3	829.7	1324.5	2889.3	8877.3	19294.6	20217.4	18968.9
65°	597.1	597.1	600.2	614.2	654.5	843.7	1823.9	7149.6	20884.3	24117.8	22539.0
67.5°	556.8	558.3	556.8	561.4	584.7	623.5	1057.7	4938.0	21740.4	28159.4	26455.0
70°	514.9	518.0	510.2	510.2	528.9	530.4	662.3	2707.8	21030.0	31546.6	31098.4
72.5°	465.2	470.0	457.6	454.4	468.3	462.2	497.8	1299.6	18055.4	32557.8	33736.4
75°	421.9	428.0	400.2	392.4	392.4	387.8	404.8	666.9	11718.5	26559.0	28407.6
77.5°	383.0	395.4	350.5	325.6	319.5	305.6	330.4	407.8	5125.7	12469.1	12210.1
80°	316.4	333.4	288.4	259.0	248.2	232.7	260.6	285.4	1524.5	2895.5	2773.0
82.5°	235.7	243.5	204.7	184.6	175.3	164.4	195.4	198.5	496.3	1025.1	1158.6
85°	150.5	153.5	125.7	108.5	103.9	99.2	124.0	108.5	189.2	753.7	1094.9
87.5°	52.7	60.5	48.1	43.5	46.5	38.7	57.4	32.6	52.7	532.0	659.2
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)