

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: P966705

Luminaire Tested: **NAV-SB4C-740-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966705
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-SB4C-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32199.3 lumens
Efficiency: N/A
Efficacy: 160.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

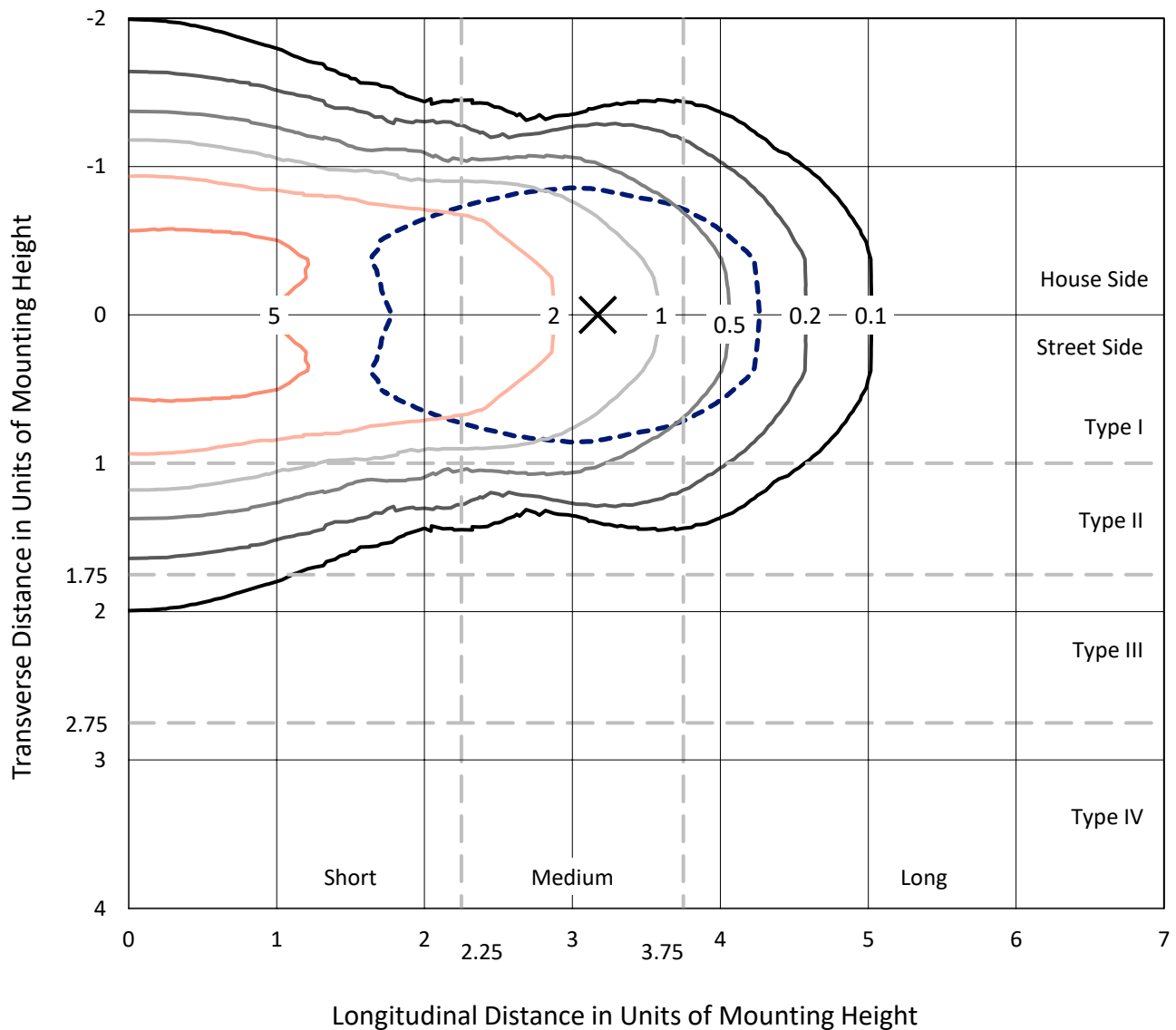
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

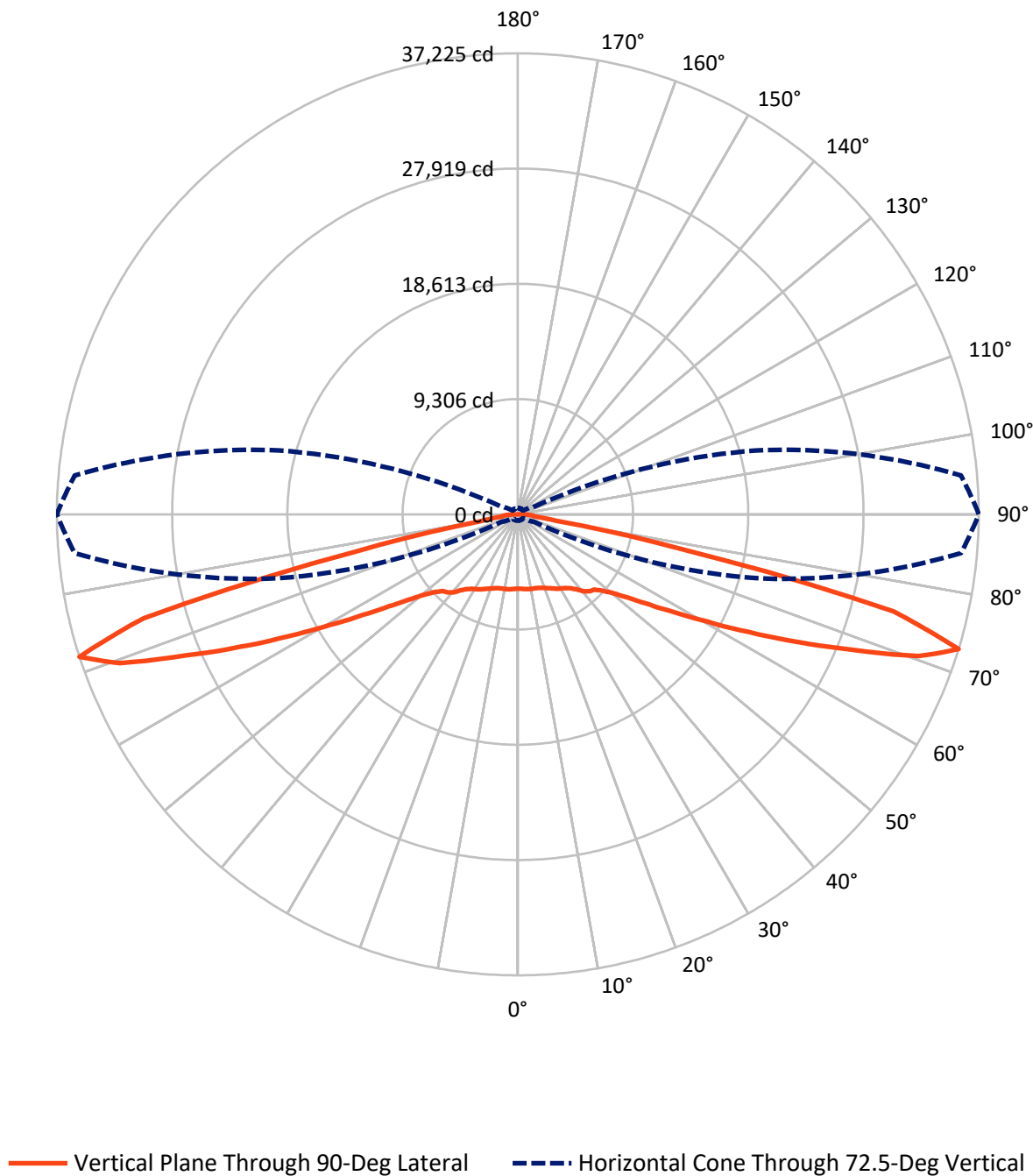
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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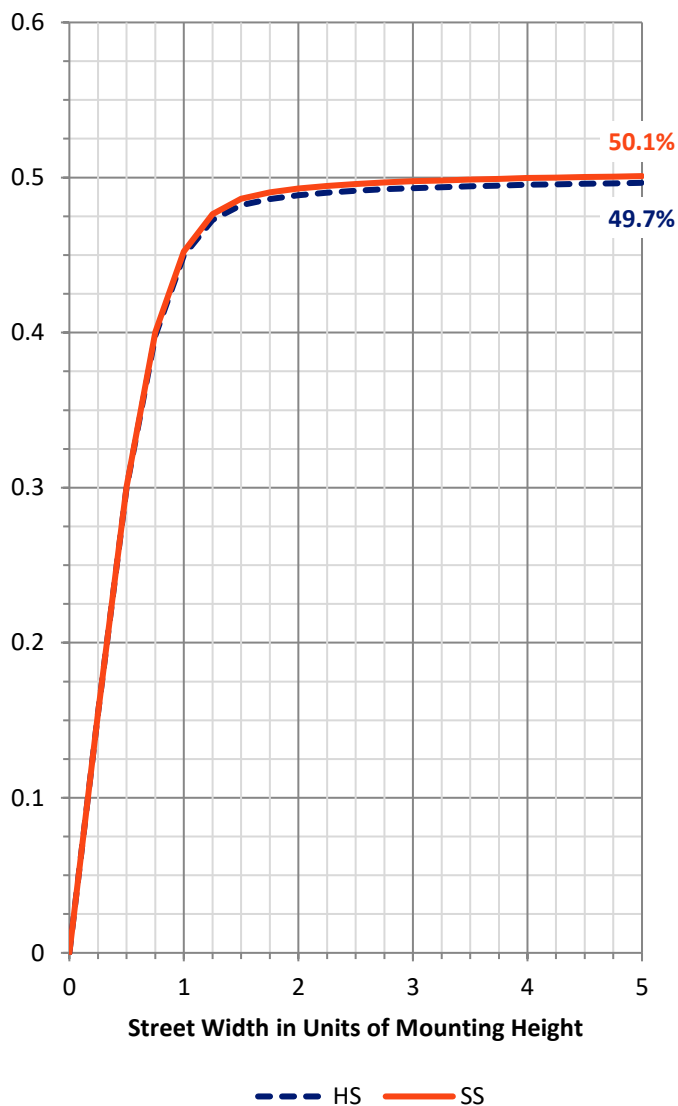
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16099.7	0.0	16099.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16099.7	0.0	16099.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	32199.3	0.0	32199.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.4	1.8
10°-20°	1783.8	5.5
20°-30°	2974.3	9.2
30°-40°	4090.6	12.7
40°-50°	4995.8	15.5
50°-60°	5778.1	17.9
60°-70°	6889.5	21.4
70°-80°	4808.4	14.9
80°-90°	295.3	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°	32199.3	100.0
0°-180°	32199.3	100.0

Coefficient of Utilization



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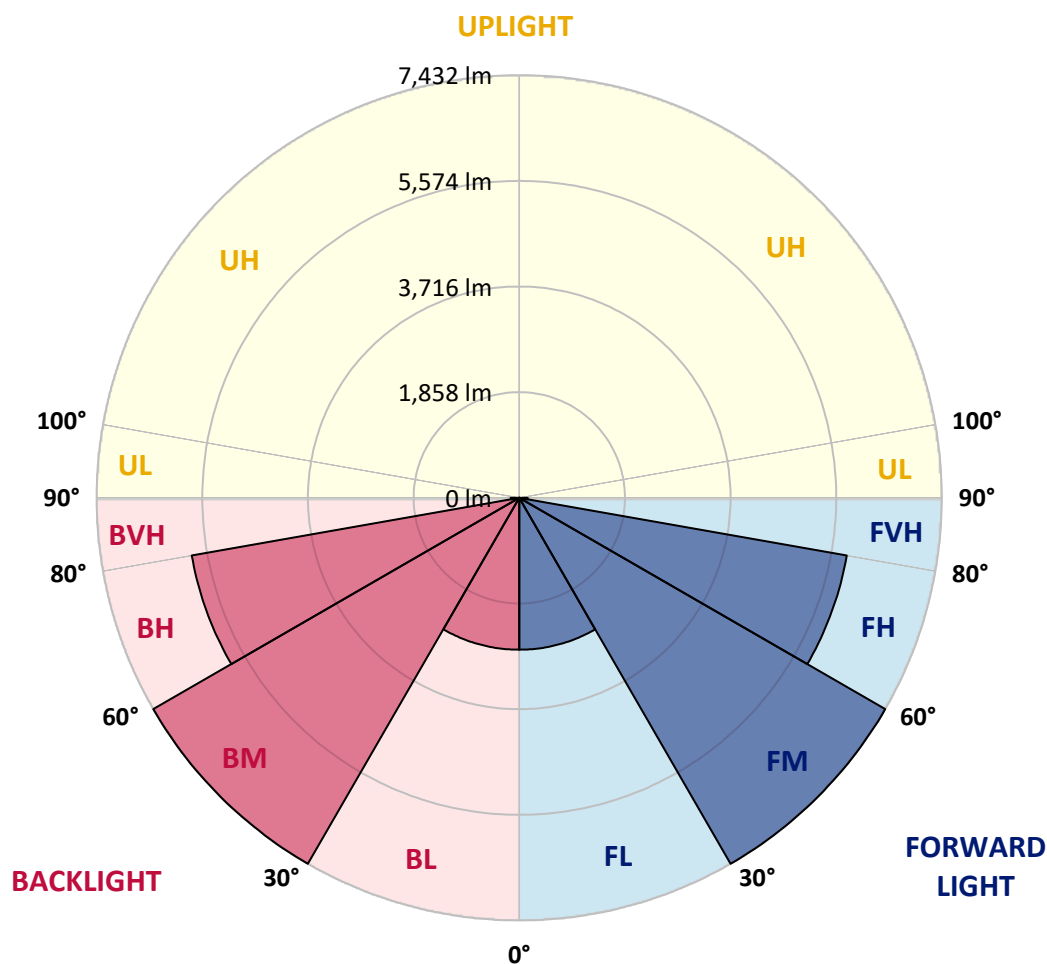
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2670.8	8.3			
FM	(30°-60°)	7432.3	23.1			
FH	(60°-80°)	5849.0	18.2			G3/7500
FVH	(80°-90°)	147.7	0.5			G2/225
BL	(0°-30°)	2670.8	8.3	B4/5000		
BM	(30°-60°)	7432.3	23.1	B4/8500		
BH	(60°-80°)	5849.0	18.2	B5		G5
BVH	(80°-90°)	147.7	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°	6016.7	6016.7	6016.7	6016.7	6016.7	6016.7	6016.7	6016.7	6016.7	6016.7	6016.7
2.5°	6021.9	6028.7	6028.7	6023.6	6035.6	6025.4	6025.4	6020.2	6025.4	6020.2	6020.2
5°	6052.7	6061.2	6064.7	6063.0	6078.4	6069.8	6069.8	6063.0	6064.7	6059.6	6059.6
7.5°	6110.9	6122.8	6129.7	6138.3	6160.6	6150.3	6143.4	6122.8	6114.3	6100.6	6100.6
10°	6129.7	6143.4	6165.7	6210.2	6261.5	6263.2	6242.7	6191.3	6151.9	6121.2	6116.1
12.5°	6071.6	6090.3	6136.6	6227.3	6341.9	6388.1	6355.6	6270.0	6193.0	6138.3	6129.7
15°	5998.0	6018.5	6088.7	6225.5	6395.0	6502.8	6499.3	6386.5	6263.2	6177.7	6163.9
17.5°	5883.3	5903.8	6004.9	6196.4	6436.1	6614.0	6661.9	6545.5	6372.7	6258.0	6239.3
20°	5676.2	5695.1	5835.4	6104.1	6449.7	6732.1	6857.0	6754.3	6538.7	6383.0	6353.9
22.5°	5407.6	5436.7	5600.9	5944.9	6417.2	6855.3	7079.5	7009.4	6732.1	6516.4	6477.1
25°	5120.1	5150.9	5342.5	5749.8	6333.4	6944.3	7343.0	7298.5	6951.1	6682.5	6627.8
27.5°	4871.9	4904.4	5113.2	5556.4	6203.3	6978.5	7603.1	7625.4	7216.4	6865.6	6807.4
30°	4676.9	4707.7	4930.1	5400.7	6035.6	6944.3	7830.7	7984.7	7486.8	7024.7	6940.9
32.5°	4463.0	4502.3	4736.7	5210.8	5837.1	6862.2	8029.2	8373.2	7799.9	7195.8	7089.7
35°	4192.6	4228.5	4474.9	4950.6	5577.0	6730.4	8195.2	8804.4	8248.3	7456.0	7337.9
37.5°	3864.0	3898.3	4142.9	4625.5	5318.6	6545.5	8321.9	9290.4	8782.2	7830.7	7673.3
40°	3533.8	3566.3	3795.6	4262.8	5008.9	6309.4	8366.4	9766.2	9394.8	8345.9	8178.1
42.5°	3230.9	3259.9	3470.4	3905.0	4661.5	6008.2	8308.1	10180.3	9944.1	8705.2	8489.6
45°	2951.9	2977.6	3164.1	3569.7	4300.4	5642.0	8133.6	10625.3	10597.8	8961.9	8671.0
47.5°	2633.6	2659.3	2852.7	3244.5	3939.3	5212.5	7837.6	11063.3	11506.5	9543.7	9208.3
50°	2245.2	2267.4	2465.9	2869.8	3564.5	4755.6	7426.8	11407.2	12653.0	10425.0	10004.0
52.5°	1784.8	1808.8	2002.1	2406.0	3119.6	4264.4	6886.2	11631.4	13977.6	11711.9	11193.3
55°	1327.9	1345.0	1512.8	1875.5	2568.6	3704.9	6208.4	11694.7	15480.1	13471.1	12822.4
57.5°	963.4	973.7	1081.5	1351.9	1947.4	3005.0	5385.3	11530.4	17268.3	15726.5	14910.2
60°	780.3	783.7	816.3	936.0	1353.6	2214.4	4391.1	10965.8	19208.9	18633.9	17605.4
62.5°	708.5	708.5	717.0	749.6	915.5	1461.4	3188.1	9795.2	21289.8	22308.0	20930.4
65°	658.9	658.9	662.3	677.6	722.1	930.9	2012.5	7888.9	23043.8	26611.8	24869.8
67.5°	614.4	616.0	614.4	619.5	645.1	687.9	1167.1	5448.7	23988.5	31071.3	29190.7
70°	568.2	571.5	563.0	563.0	583.5	585.3	730.7	2987.9	23204.7	34808.7	34314.1
72.5°	513.4	518.5	504.8	501.4	516.8	509.9	549.3	1434.1	19922.5	35924.5	37225.0
75°	465.5	472.3	441.5	433.0	433.0	427.8	446.6	735.8	12930.3	29305.4	31345.1
77.5°	422.7	436.3	386.7	359.4	352.5	337.1	364.5	450.1	5655.7	13758.6	13472.7
80°	349.1	367.9	318.3	285.8	273.8	256.7	287.5	314.9	1682.1	3194.9	3059.7
82.5°	260.1	268.7	225.9	203.7	193.4	181.4	215.7	219.0	547.6	1131.2	1278.3
85°	165.9	169.4	138.6	119.8	114.7	109.5	136.9	119.8	208.8	831.7	1208.2
87.5°	58.2	66.7	53.1	47.9	51.4	42.7	63.3	36.0	58.2	586.9	727.2
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)