

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: P970487

Luminaire Tested: **NAV-SB6B-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970487
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-SB6B-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30108.4 lumens
Efficiency: N/A
Efficacy: 136.6 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): 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

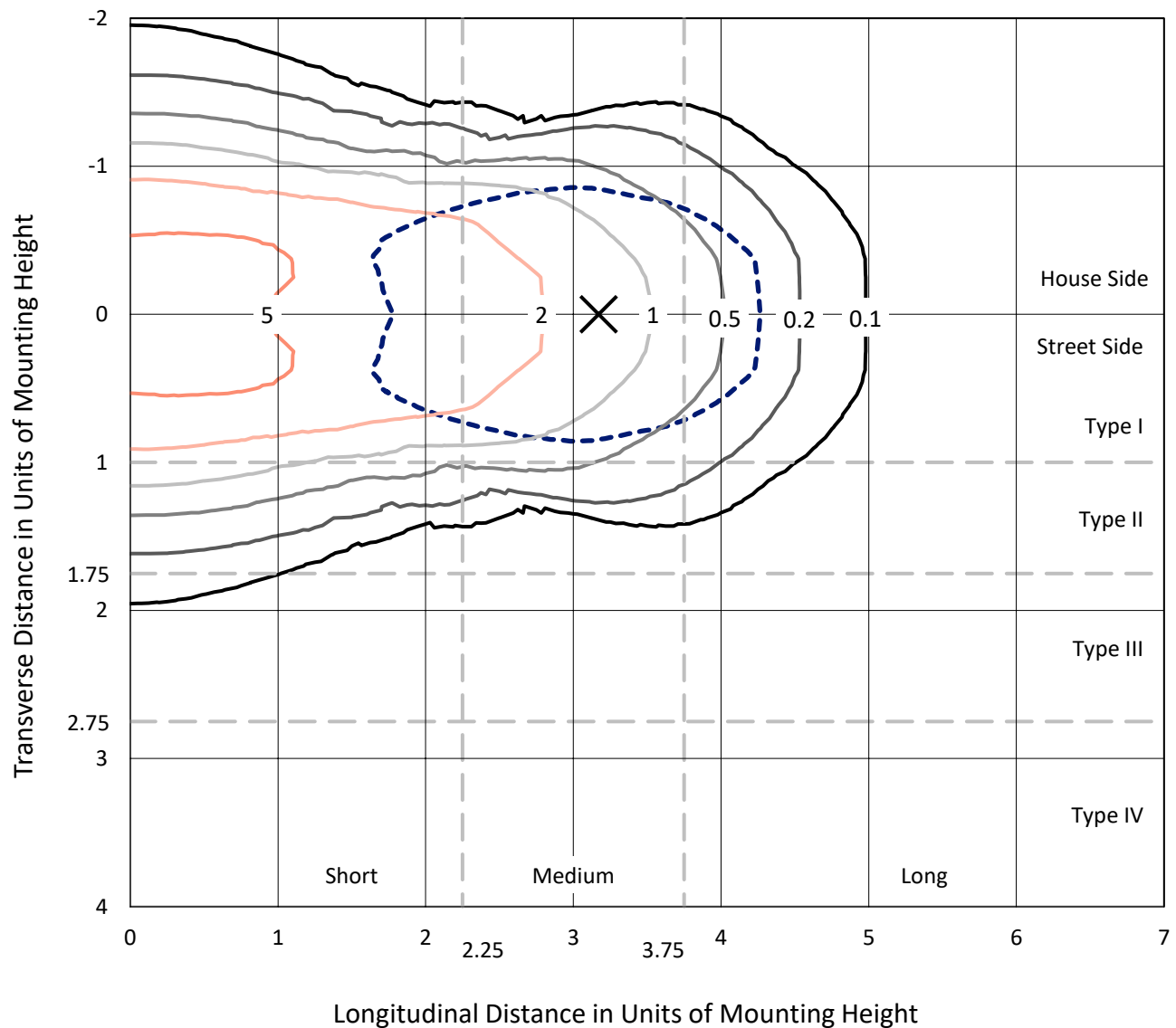


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Iso-Footcandle Lines of Horizontal Illumination

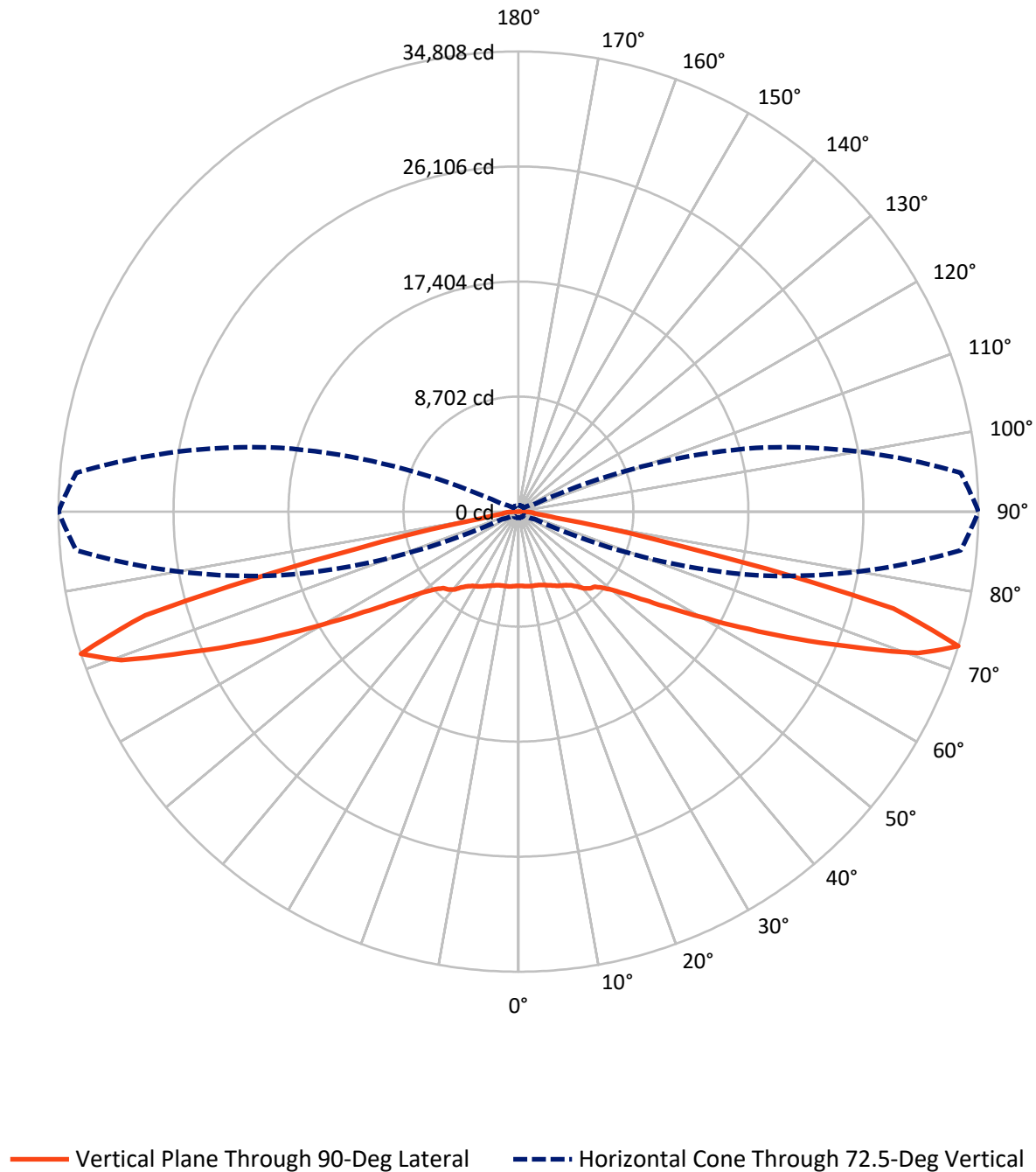
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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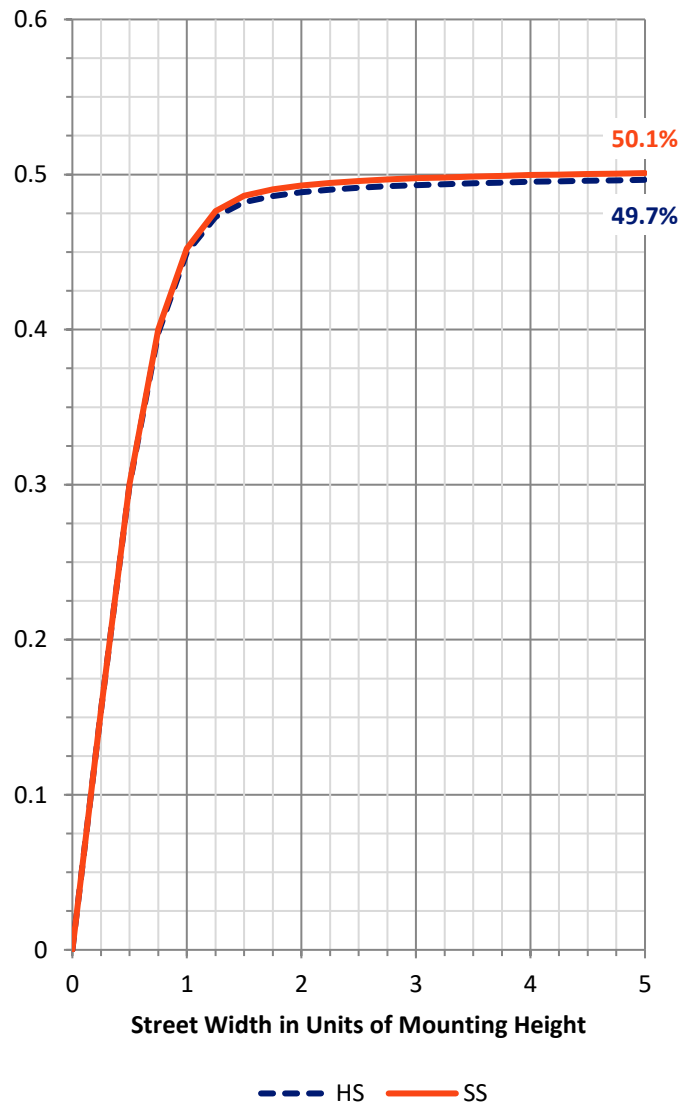
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15054.2	0.0	15054.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15054.2	0.0	15054.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	30108.4	0.0	30108.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.5	1.8
10°-20°	1668.0	5.5
20°-30°	2781.2	9.2
30°-40°	3825.0	12.7
40°-50°	4671.4	15.5
50°-60°	5402.9	17.9
60°-70°	6442.1	21.4
70°-80°	4496.2	14.9
80°-90°	276.2	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°	30108.4	100.0
0°-180°	30108.4	100.0

Coefficient of Utilization



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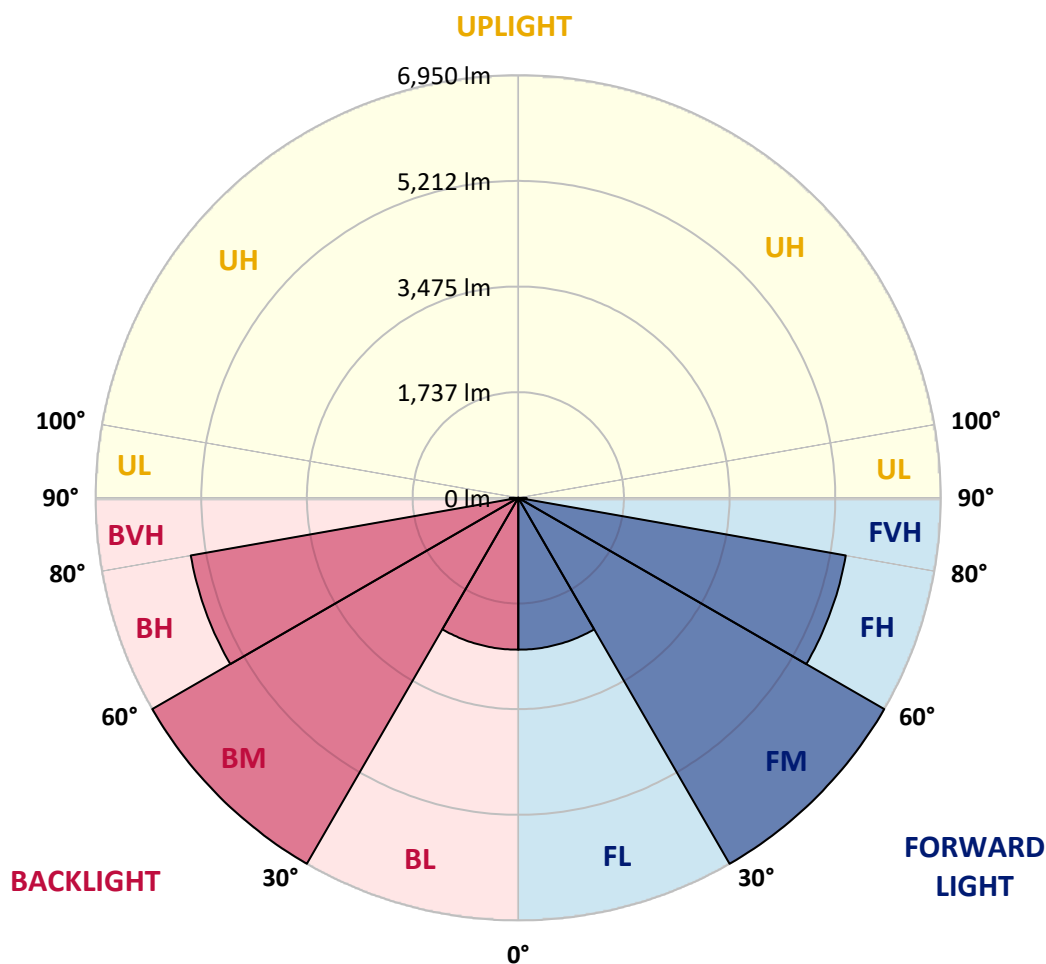
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2497.3	8.3			
FM	(30°-60°)	6949.6	23.1			
FH	(60°-80°)	5469.1	18.2			G3/7500
FVH	(80°-90°)	138.1	0.5			G2/225
BL	(0°-30°)	2497.3	8.3	B3/2500		
BM	(30°-60°)	6949.6	23.1	B4/8500		
BH	(60°-80°)	5469.1	18.2	B5		G5
BVH	(80°-90°)	138.1	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°	5626.0	5626.0	5626.0	5626.0	5626.0	5626.0	5626.0	5626.0	5626.0	5626.0	5626.0
2.5°	5630.8	5637.3	5637.3	5632.5	5643.6	5634.0	5634.0	5629.3	5634.0	5629.3	5629.3
5°	5659.6	5667.6	5670.9	5669.3	5683.6	5675.6	5675.6	5669.3	5670.9	5666.1	5666.1
7.5°	5714.1	5725.2	5731.7	5739.7	5760.5	5750.9	5744.5	5725.2	5717.2	5704.4	5704.4
10°	5731.7	5744.5	5765.3	5806.8	5854.9	5856.4	5837.3	5789.3	5752.5	5723.7	5718.9
12.5°	5677.3	5694.9	5738.1	5822.9	5930.1	5973.3	5942.8	5862.9	5790.8	5739.7	5731.7
15°	5608.5	5627.7	5693.3	5821.3	5979.6	6080.5	6077.3	5971.6	5856.4	5776.5	5763.7
17.5°	5501.3	5520.4	5614.8	5794.1	6018.1	6184.5	6229.3	6120.5	5958.9	5851.7	5834.1
20°	5307.7	5325.3	5456.5	5707.7	6030.9	6294.9	6411.7	6315.7	6114.1	5968.5	5941.3
22.5°	5056.4	5083.6	5237.2	5558.9	6000.5	6410.1	6619.8	6554.2	6294.9	6093.3	6056.5
25°	4787.6	4816.4	4995.6	5376.4	5922.0	6493.4	6866.2	6824.6	6499.7	6248.5	6197.4
27.5°	4555.6	4586.0	4781.2	5195.6	5800.5	6525.4	7109.4	7130.2	6747.8	6419.7	6365.4
30°	4373.2	4402.0	4609.9	5050.0	5643.6	6493.4	7322.2	7466.2	7000.5	6568.5	6490.1
32.5°	4173.2	4210.0	4429.1	4872.4	5458.0	6416.5	7507.8	7829.5	7293.4	6728.5	6629.4
35°	3920.3	3953.9	4184.4	4629.2	5214.8	6293.3	7663.0	8232.7	7712.6	6971.7	6861.4
37.5°	3613.1	3645.1	3873.9	4325.2	4973.2	6120.5	7781.4	8687.1	8211.9	7322.2	7175.0
40°	3304.3	3334.6	3549.1	3985.9	4683.6	5899.7	7823.0	9131.9	8784.8	7803.8	7647.0
42.5°	3021.1	3048.2	3245.0	3651.5	4358.7	5618.0	7768.7	9519.2	9298.4	8139.8	7938.2
45°	2760.2	2784.2	2958.7	3337.9	4021.2	5275.7	7605.4	9935.2	9909.6	8379.9	8107.9
47.5°	2462.6	2486.6	2667.5	3033.9	3683.5	4874.0	7328.6	10344.8	10759.3	8924.0	8610.3
50°	2099.4	2120.2	2305.8	2683.4	3333.1	4446.8	6944.6	10666.5	11831.4	9748.0	9354.4
52.5°	1668.9	1691.4	1872.2	2249.8	2917.0	3987.6	6438.9	10876.1	13069.9	10951.3	10466.5
55°	1241.7	1257.7	1414.5	1753.8	2401.8	3464.3	5805.3	10935.3	14474.7	12596.2	11989.8
57.5°	900.9	910.5	1011.3	1264.1	1820.9	2809.8	5035.6	10781.7	16146.9	14705.2	13941.9
60°	729.7	732.9	763.2	875.2	1265.7	2070.6	4105.9	10253.7	17961.5	17423.9	16462.1
62.5°	662.5	662.5	670.5	700.9	856.1	1366.5	2981.0	9159.2	19907.2	20859.4	19571.2
65°	616.0	616.0	619.2	633.7	675.3	870.4	1881.8	7376.6	21547.3	24883.6	23254.7
67.5°	574.4	576.0	574.4	579.2	603.2	643.3	1091.3	5094.9	22430.7	29053.6	27295.0
70°	531.3	534.4	526.4	526.4	545.6	547.2	683.3	2793.8	21697.8	32548.3	32085.9
72.5°	480.0	484.8	472.0	468.8	483.3	476.8	513.6	1340.9	18628.8	33591.6	34807.7
75°	435.2	441.7	412.9	404.9	404.9	400.1	417.6	688.1	12090.6	27402.2	29309.6
77.5°	395.2	408.1	361.6	336.0	329.6	315.2	340.8	420.9	5288.4	12865.1	12597.9
80°	326.5	344.0	297.7	267.2	256.0	240.1	268.9	294.4	1573.0	2987.5	2861.1
82.5°	243.2	251.2	211.3	190.4	180.8	169.6	201.6	204.8	512.1	1057.7	1195.3
85°	155.2	158.4	129.6	112.0	107.2	102.4	128.0	112.0	195.3	777.7	1129.7
87.5°	54.4	62.4	49.6	44.8	48.0	40.0	59.2	33.6	54.4	548.9	680.1
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)