

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: P969309

Luminaire Tested: **NAV-SB5D-735-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969309
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-SB5D-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52123.3 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

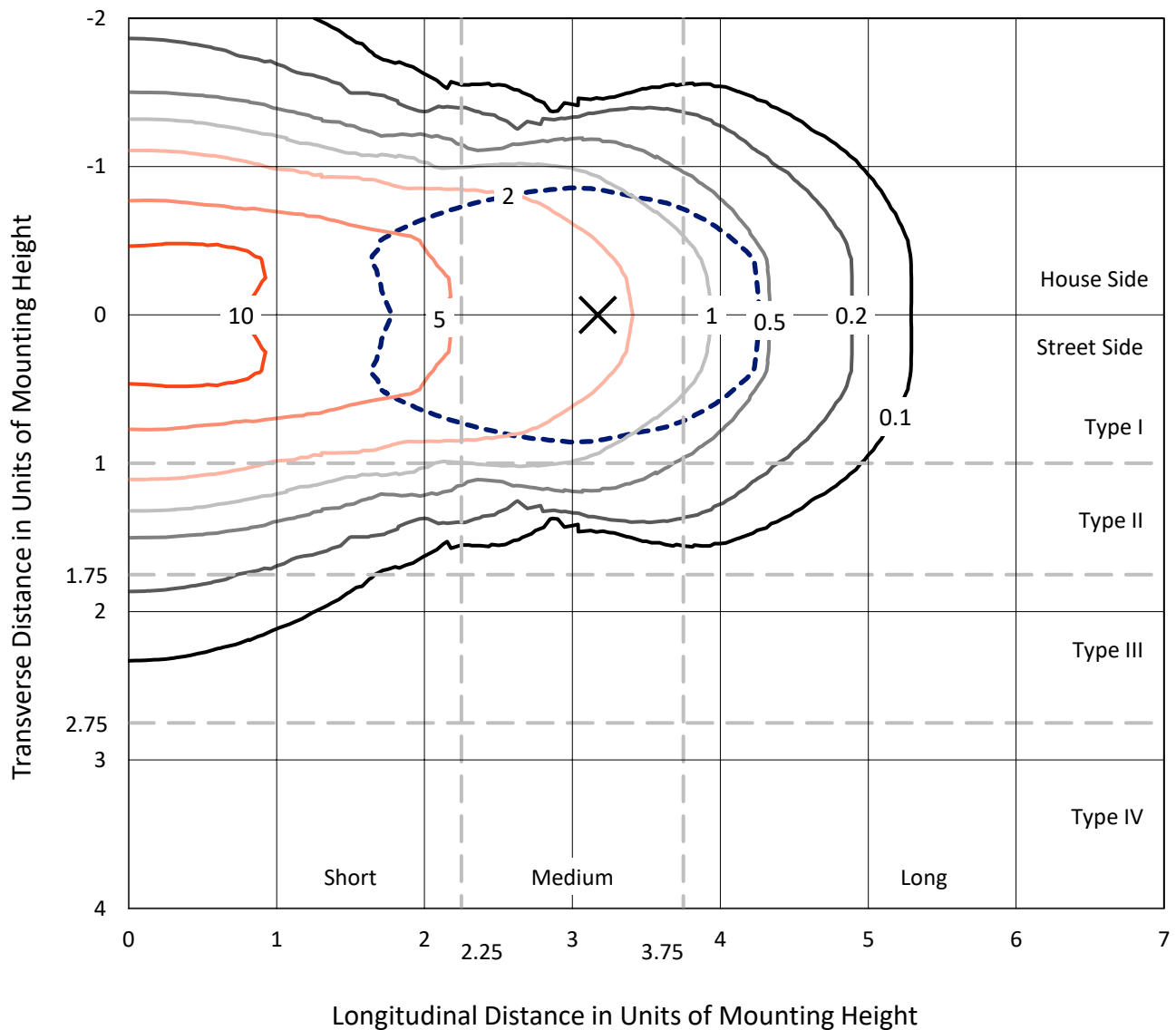
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

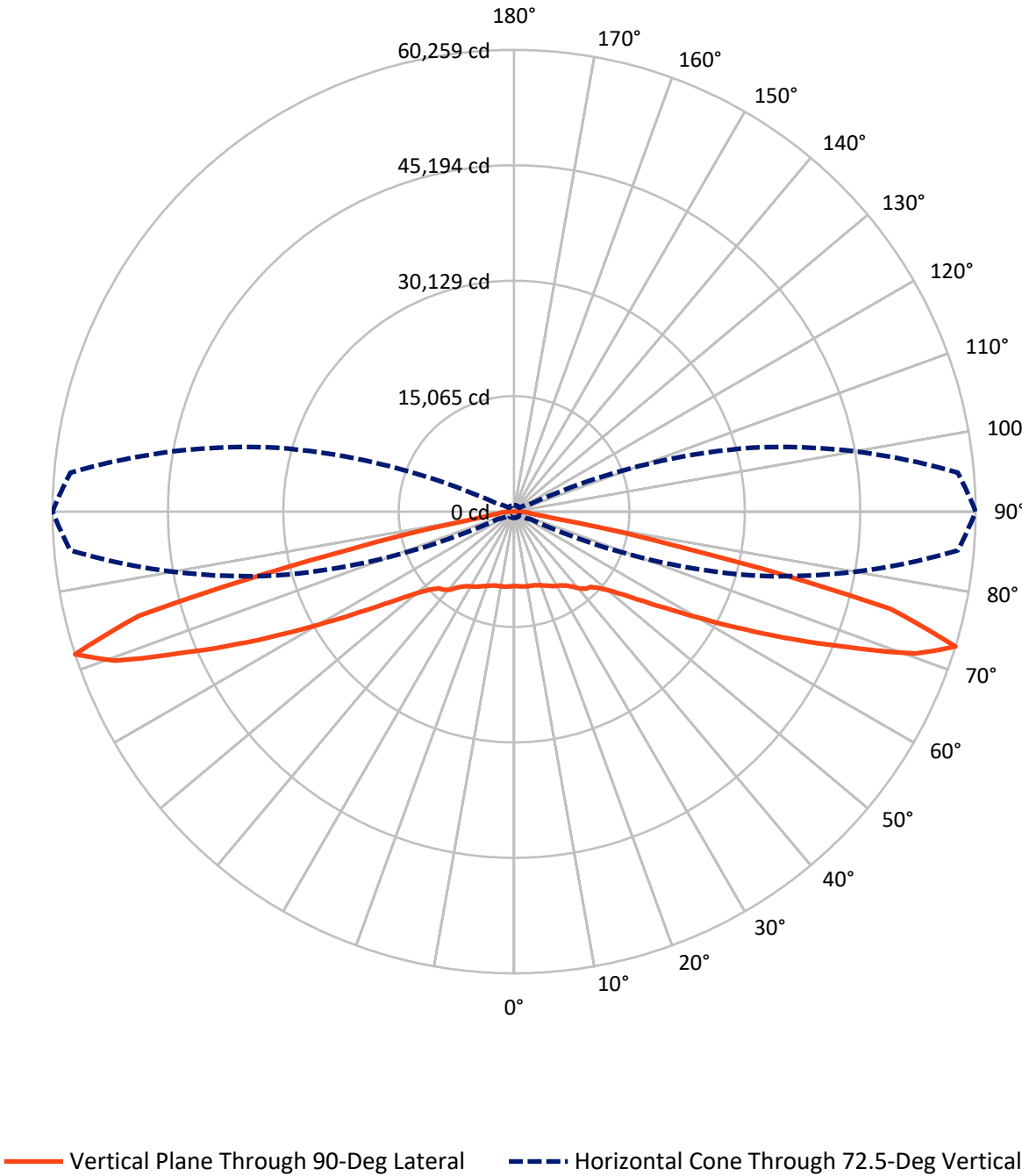
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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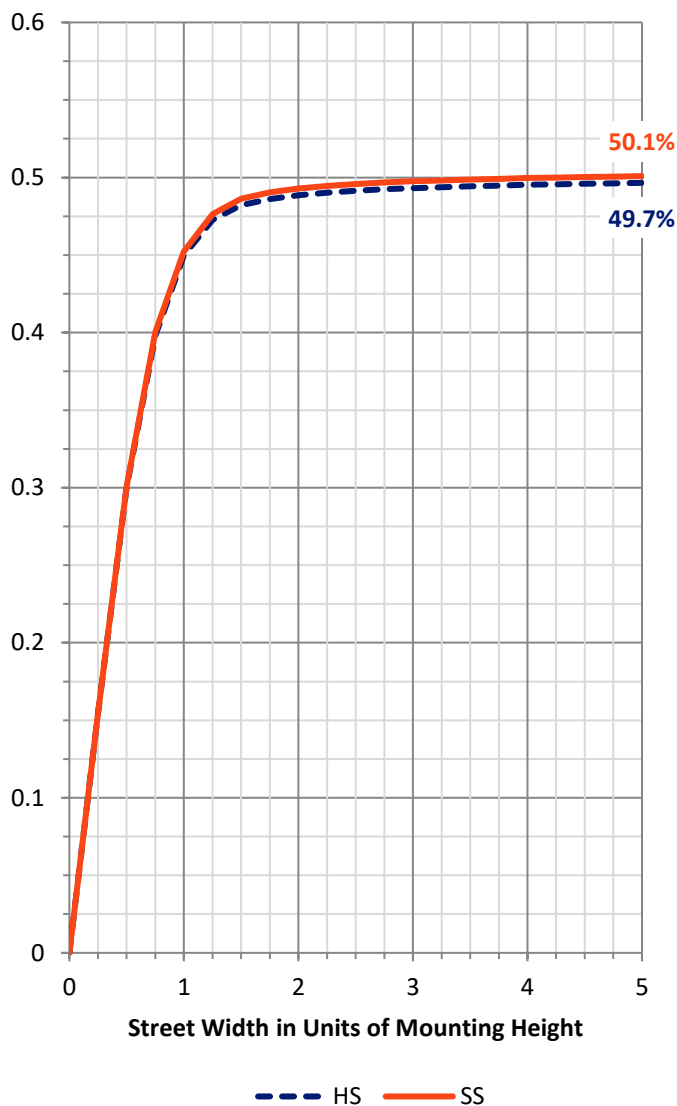
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26061.6	0.0	26061.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26061.6	0.0	26061.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	52123.3	0.0	52123.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	944.4	1.8
10°-20°	2887.6	5.5
20°-30°	4814.8	9.2
30°-40°	6621.8	12.7
40°-50°	8087.0	15.5
50°-60°	9353.5	17.9
60°-70°	11152.5	21.4
70°-80°	7783.7	14.9
80°-90°	478.1	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°	52123.3	100.0
0°-180°	52123.3	100.0

Coefficient of Utilization



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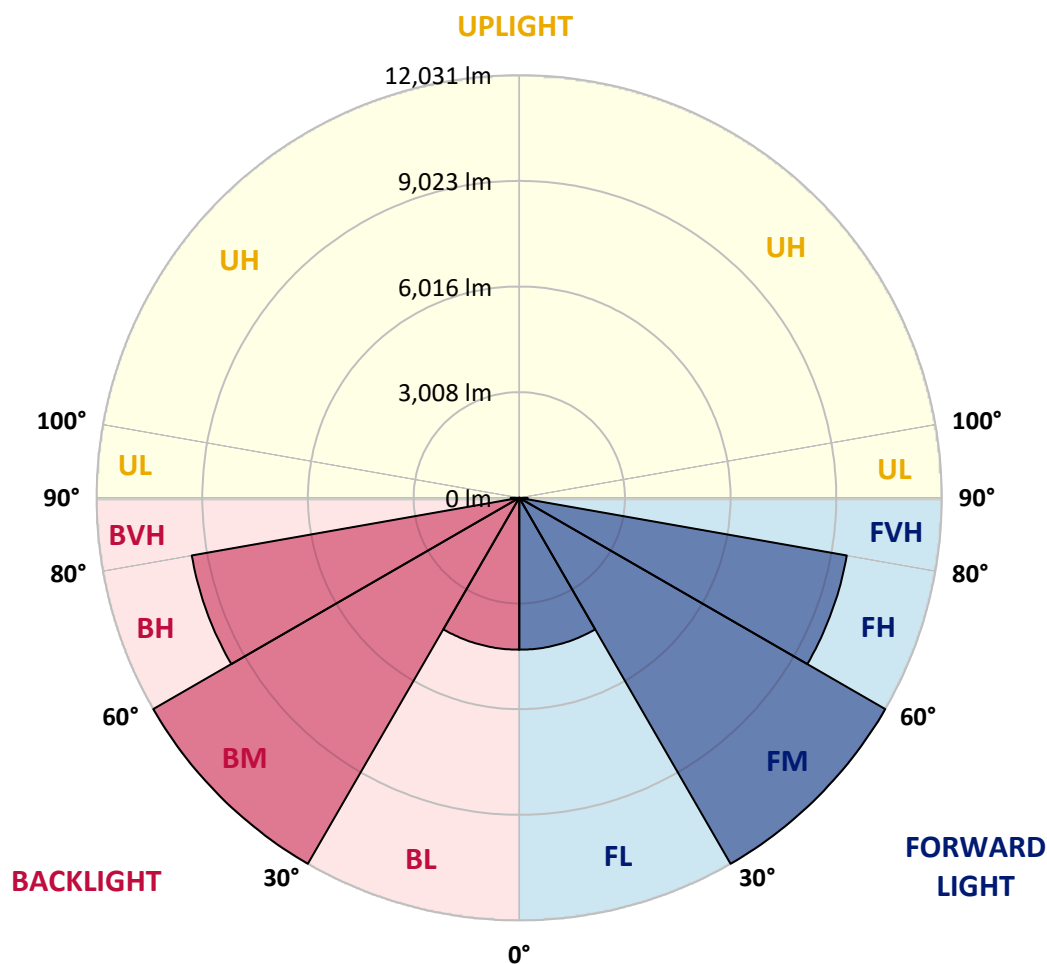
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4323.4	8.3			
FM	(30°-60°)	12031.1	23.1			
FH	(60°-80°)	9468.1	18.2			G4/12000
FVH	(80°-90°)	239.0	0.5			G3/500
BL	(0°-30°)	4323.4	8.3	B4/5000		
BM	(30°-60°)	12031.1	23.1	B5		
BH	(60°-80°)	9468.1	18.2	B5		G5
BVH	(80°-90°)	239.0	0.5			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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9739.8	9739.8	9739.8	9739.8	9739.8	9739.8	9739.8	9739.8	9739.8	9739.8	9739.8
2.5°	9748.1	9759.2	9759.2	9750.8	9770.3	9753.6	9753.6	9745.3	9753.6	9745.3	9745.3
5°	9798.0	9811.8	9817.3	9814.6	9839.5	9825.6	9825.6	9814.6	9817.3	9809.0	9809.0
7.5°	9892.2	9911.5	9922.6	9936.5	9972.4	9955.8	9944.8	9911.5	9897.7	9875.6	9875.6
10°	9922.6	9944.8	9980.8	10052.8	10135.9	10138.7	10105.5	10022.3	9958.6	9908.8	9900.5
12.5°	9828.4	9858.9	9933.7	10080.5	10266.1	10340.9	10288.2	10149.8	10025.1	9936.5	9922.6
15°	9709.3	9742.5	9856.1	10077.7	10352.0	10526.5	10521.0	10338.2	10138.7	10000.2	9978.1
17.5°	9523.7	9557.0	9720.4	10030.6	10418.5	10706.5	10784.1	10595.7	10316.0	10130.4	10099.9
20°	9188.5	9219.1	9446.2	9881.1	10440.6	10897.7	11099.9	10933.7	10584.7	10332.6	10285.5
22.5°	8753.6	8800.8	9066.6	9623.4	10388.0	11097.2	11460.0	11346.4	10897.7	10548.7	10484.9
25°	8288.3	8338.1	8648.3	9307.6	10252.3	11241.2	11886.6	11814.7	11252.2	10817.3	10728.8
27.5°	7886.6	7939.2	8277.2	8994.6	10041.7	11296.6	12307.7	12343.7	11681.6	11113.8	11019.6
30°	7570.8	7620.7	7980.8	8742.5	9770.3	11241.2	12676.2	12925.5	12119.3	11371.3	11235.6
32.5°	7224.5	7288.3	7667.7	8435.0	9449.0	11108.2	12997.5	13554.3	12626.3	11648.4	11476.6
35°	6786.8	6845.0	7243.9	8014.0	9027.9	10894.9	13266.2	14252.3	13352.1	12069.5	11878.3
37.5°	6255.0	6310.4	6706.5	7487.6	8609.6	10595.7	13471.2	15039.0	14216.3	12676.2	12421.3
40°	5720.3	5773.0	6144.2	6900.4	8108.2	10213.5	13543.2	15809.2	15208.0	13509.9	13238.5
42.5°	5230.1	5277.1	5617.8	6321.5	7545.8	9725.9	13449.0	16479.5	16097.2	14091.7	13742.6
45°	4778.4	4820.1	5122.0	5778.5	6961.4	9133.2	13166.4	17199.8	17155.4	14507.2	14036.2
47.5°	4263.3	4304.8	4617.8	5252.2	6376.8	8437.8	12687.2	17908.9	18626.4	15449.0	14906.1
50°	3634.4	3670.4	3991.8	4645.5	5770.2	7698.2	12022.3	18465.7	20482.4	16875.7	16194.2
52.5°	2889.3	2928.0	3241.0	3894.8	5050.0	6903.2	11147.0	18828.6	22626.5	18958.8	18119.4
55°	2149.6	2177.3	2448.8	3036.0	4158.0	5997.4	10050.0	18931.1	25058.6	21806.5	20756.7
57.5°	1559.5	1576.2	1750.7	2188.4	3152.4	4864.3	8717.6	18665.1	27953.4	25457.5	24136.2
60°	1263.2	1268.7	1321.3	1515.3	2191.1	3584.5	7108.2	17751.1	31094.7	30164.0	28499.1
62.5°	1146.9	1146.9	1160.7	1213.3	1482.0	2365.7	5160.8	15856.2	34463.3	36111.5	33881.5
65°	1066.5	1066.5	1072.0	1097.0	1169.0	1507.0	3257.7	12770.3	37302.6	43078.4	40258.3
67.5°	994.5	997.2	994.5	1002.8	1044.4	1113.6	1889.3	8820.1	38831.7	50297.3	47252.9
70°	919.7	925.3	911.3	911.3	944.6	947.4	1182.8	4836.7	37563.0	56347.3	55546.7
72.5°	831.1	839.4	817.2	811.7	836.6	825.5	889.2	2321.4	32249.9	58153.4	60258.7
75°	753.5	764.5	714.7	700.8	700.8	692.5	723.0	1191.2	20931.1	47438.5	50740.6
77.5°	684.2	706.4	626.1	581.7	570.6	545.7	590.0	728.6	9155.3	22271.9	21809.2
80°	565.1	595.6	515.3	462.6	443.2	415.5	465.4	509.7	2723.0	5171.8	4953.0
82.5°	421.1	434.9	365.6	329.6	313.0	293.7	349.0	354.5	886.4	1831.1	2069.3
85°	268.7	274.3	224.4	193.9	185.6	177.3	221.6	193.9	337.9	1346.2	1955.7
87.5°	94.2	108.0	85.9	77.6	83.1	69.3	102.5	58.2	94.2	950.2	1177.3
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)