

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: P968368

Luminaire Tested: **NAV-SB5B-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968368
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-SB5B-827-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26107.7 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 182.7
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

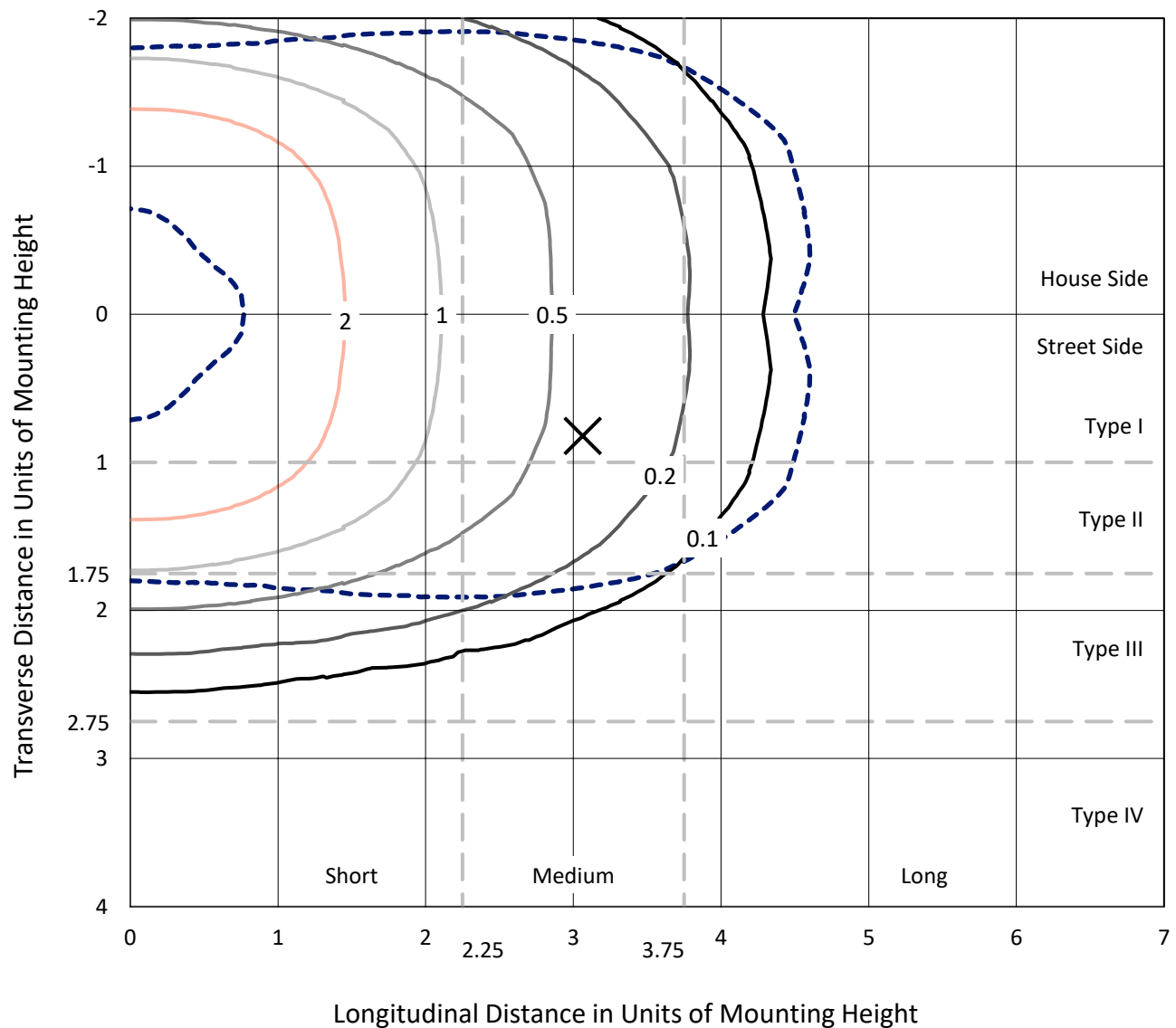


REPORT NUMBER: P968368

CATALOG NUMBER: NAV-SB5B-827-U-RW

Iso-Footcandle Lines of Horizontal Illumination

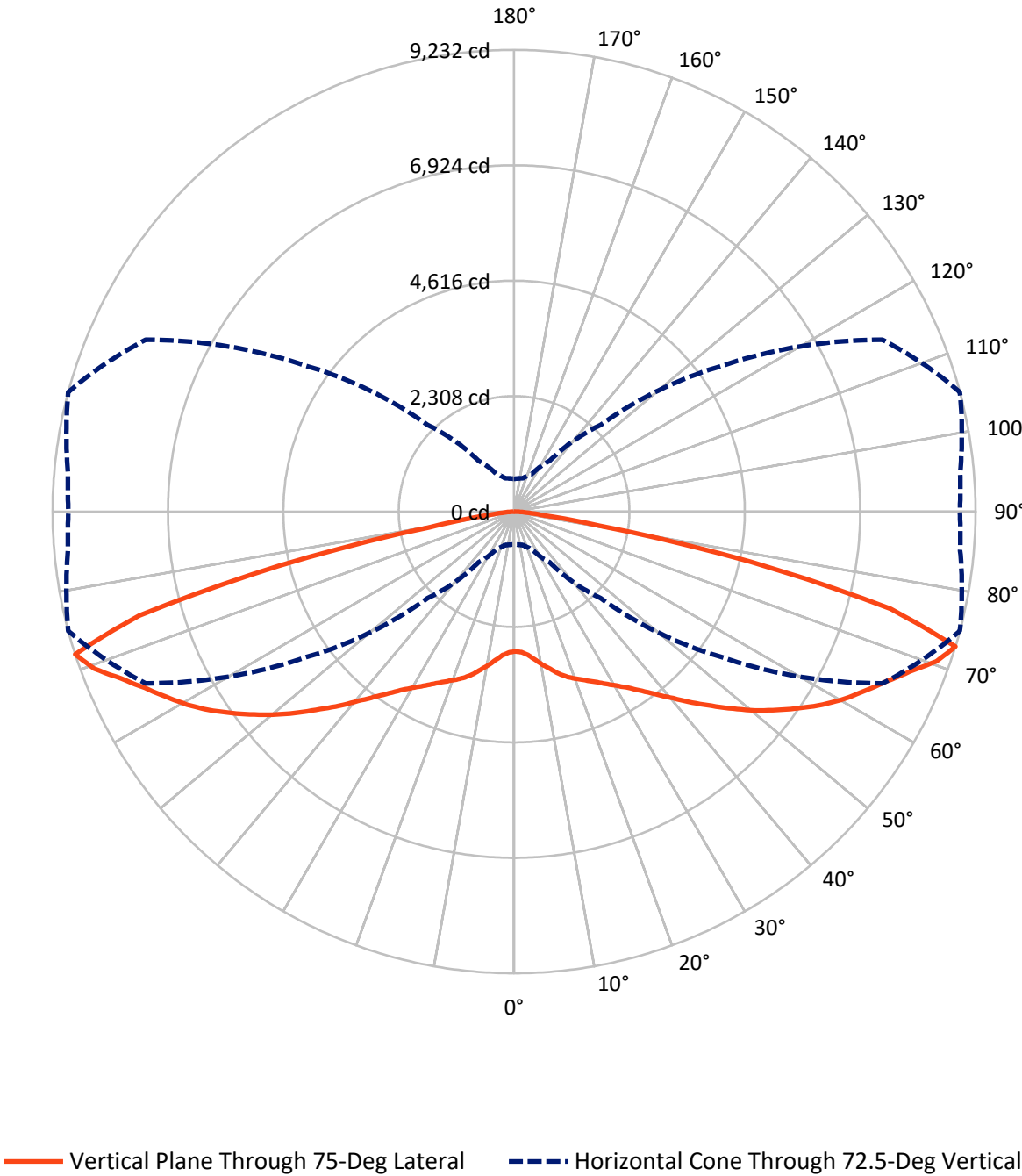
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type III - Medium - N/A

REPORT NUMBER: P968368
CATALOG NUMBER: NAV-SB5B-827-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P968368

CATALOG NUMBER: NAV-SB5B-827-U-RW

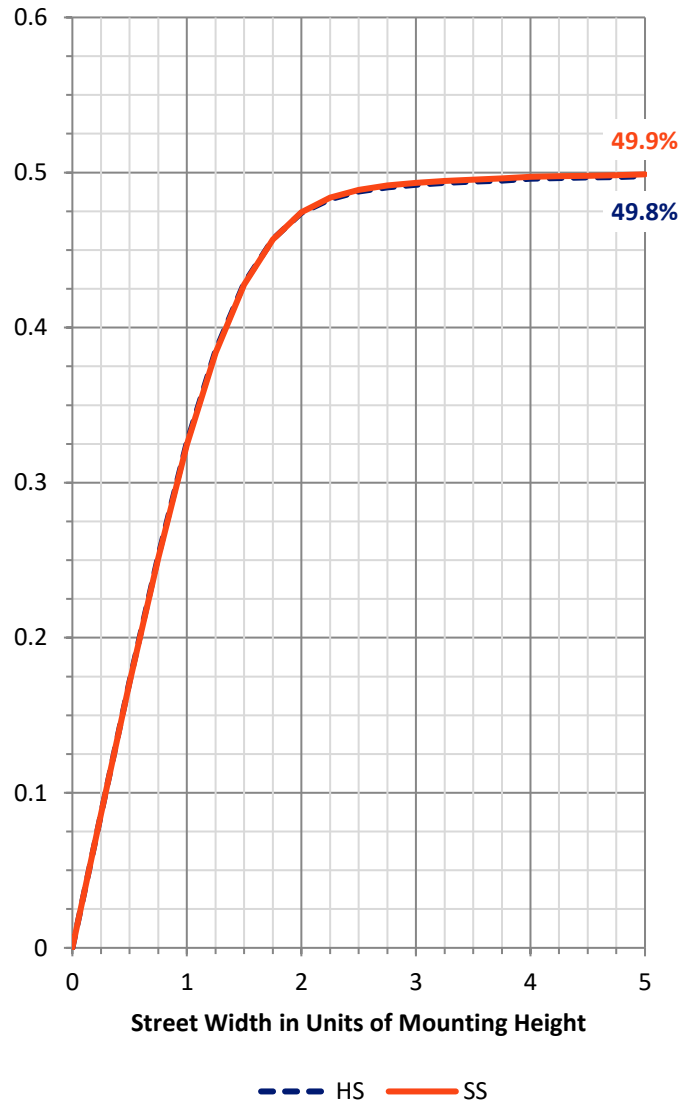
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13053.9	0.0	13053.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13053.9	0.0	13053.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	26107.7	0.0	26107.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.0	1.0
10°-20°	903.5	3.5
20°-30°	1745.9	6.7
30°-40°	2948.1	11.3
40°-50°	4675.3	17.9
50°-60°	6259.7	24.0
60°-70°	5957.3	22.8
70°-80°	3108.6	11.9
80°-90°	235.3	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°	26107.7	100.0
0°-180°	26107.7	100.0

Coefficient of Utilization



REPORT NUMBER: P968368

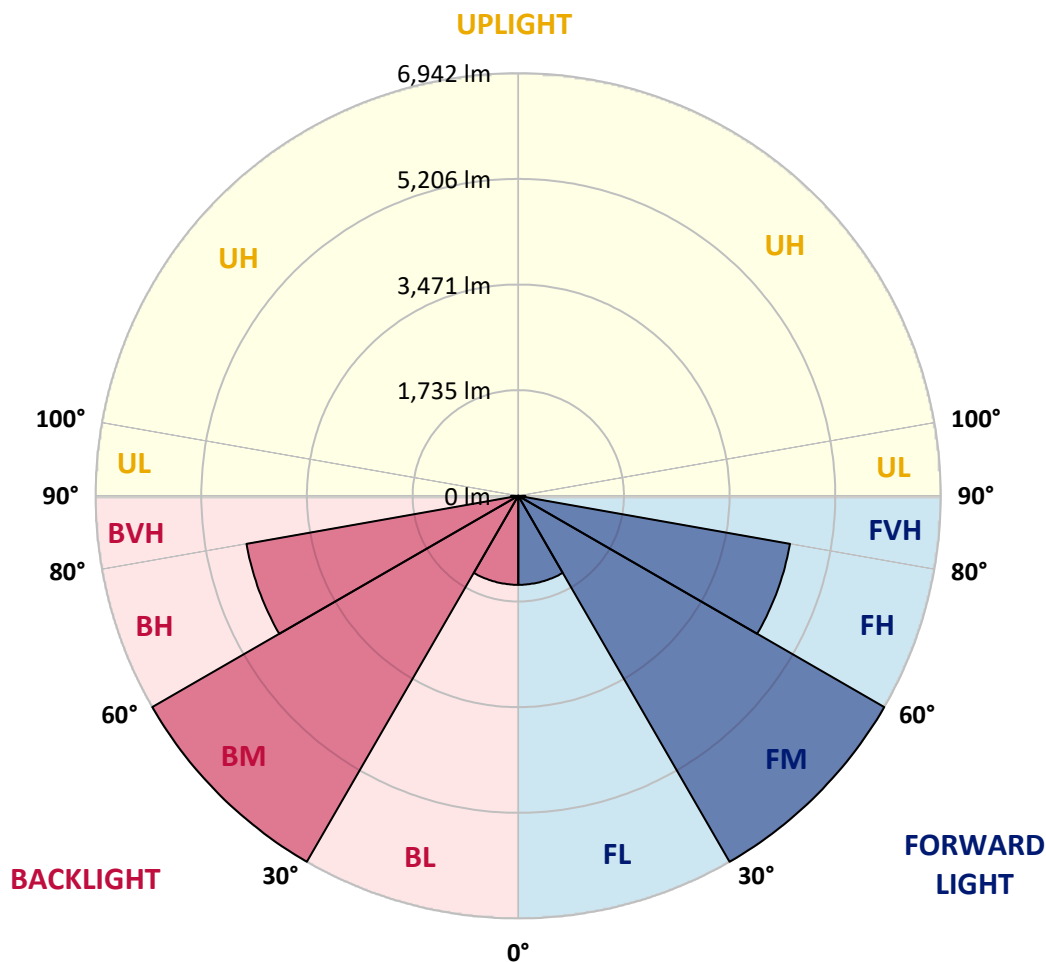
CATALOG NUMBER: NAV-SB5B-827-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1461.7	5.6			
FM	(30°-60°)	6941.6	26.6			
FH	(60°-80°)	4532.9	17.4			G2/5000
FVH	(80°-90°)	117.7	0.5			G2/225
BL	(0°-30°)	1461.7	5.6	B3/2500		
BM	(30°-60°)	6941.6	26.6	B4/8500		
BH	(60°-80°)	4532.9	17.4	B4/5000		G4/5000
BVH	(80°-90°)	117.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



REPORT NUMBER: P968368

CATALOG NUMBER: NAV-SB5B-827-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6
2.5°	2796.6	2793.9	2796.6	2799.3	2797.9	2797.9	2804.6	2808.6	2816.6	2815.3	2813.9
5°	2778.0	2776.6	2787.3	2799.3	2808.6	2824.6	2844.6	2859.2	2877.9	2881.9	2881.9
7.5°	2768.6	2764.6	2783.3	2804.6	2833.9	2873.9	2912.5	2952.6	2984.6	2995.3	2997.9
10°	2775.3	2776.6	2801.9	2841.9	2888.6	2944.6	2999.3	3067.2	3112.5	3123.2	3133.8
12.5°	2805.9	2803.3	2845.9	2909.9	2973.9	3044.6	3108.5	3183.1	3232.5	3257.9	3268.5
15°	2861.9	2856.6	2916.5	3011.2	3104.5	3187.1	3239.2	3309.8	3367.1	3399.1	3411.1
17.5°	2928.5	2931.2	3009.9	3132.5	3255.2	3348.5	3397.8	3433.7	3477.7	3505.8	3519.1
20°	3045.9	3051.2	3139.2	3284.5	3424.4	3531.1	3571.1	3557.8	3569.8	3591.1	3607.1
22.5°	3203.1	3205.8	3304.5	3461.7	3608.4	3725.7	3752.3	3697.7	3664.4	3679.0	3689.7
25°	3385.8	3403.1	3501.8	3663.0	3813.7	3925.6	3937.6	3855.0	3772.3	3776.4	3783.1
27.5°	3608.4	3624.4	3724.3	3884.3	4037.6	4135.0	4133.6	4022.9	3901.7	3871.0	3880.3
30°	3849.7	3867.0	3969.6	4135.0	4277.5	4362.9	4344.3	4212.2	4038.9	3981.6	3988.3
32.5°	4136.3	4146.9	4250.9	4416.2	4548.1	4616.2	4577.4	4414.9	4198.9	4133.6	4149.6
35°	4482.8	4498.8	4576.1	4732.1	4848.0	4904.1	4838.7	4646.8	4404.2	4330.8	4341.6
37.5°	4878.7	4868.0	4956.1	5094.7	5190.7	5225.3	5136.0	4908.1	4638.8	4552.1	4568.1
40°	5292.0	5286.6	5382.6	5515.9	5567.9	5589.2	5457.3	5208.0	4909.4	4816.1	4846.7
42.5°	5666.5	5662.5	5791.9	5939.8	6002.4	5978.4	5811.9	5526.6	5222.7	5116.0	5142.6
45°	5966.4	5961.1	6119.8	6327.7	6450.3	6410.3	6186.4	5878.5	5539.9	5429.2	5454.6
47.5°	6197.0	6199.7	6370.4	6627.6	6842.2	6856.9	6568.9	6237.0	5889.1	5763.9	5801.2
50°	6363.7	6371.7	6554.3	6839.5	7132.9	7262.1	6959.5	6605.0	6250.3	6109.1	6151.7
52.5°	6405.0	6419.7	6639.6	6974.2	7319.4	7566.0	7356.7	6958.2	6593.0	6458.3	6493.0
55°	6185.1	6214.4	6493.0	6963.5	7434.1	7766.0	7706.1	7316.8	6938.2	6799.5	6838.2
57.5°	5679.8	5721.1	6046.5	6661.0	7408.7	7903.3	7976.7	7660.6	7283.4	7150.2	7180.8
60°	4972.1	5021.4	5333.3	6003.7	7051.5	7953.9	8167.2	7995.3	7600.7	7471.4	7499.4
62.5°	3904.3	3968.3	4341.6	5128.0	6297.1	7718.0	8329.9	8297.9	7885.9	7724.7	7743.4
65°	2504.7	2572.6	2965.9	3895.0	5290.6	6995.5	8380.5	8592.5	8187.2	7961.9	7990.0
67.5°	1510.2	1541.0	1735.5	2360.7	3867.0	5906.5	7951.2	8919.0	8539.2	8259.2	8280.6
70°	966.4	983.8	1099.7	1386.3	2186.1	4309.5	6887.6	8980.3	8965.7	8564.5	8561.8
72.5°	655.8	661.1	691.8	821.1	1237.0	2448.7	5080.0	8129.9	9232.3	8957.7	8915.0
75°	479.9	509.2	558.5	581.2	702.5	1223.6	2911.2	5711.8	7780.7	7900.6	7610.0
77.5°	357.2	358.5	426.6	453.3	501.2	651.8	1231.6	3188.5	4830.7	5072.0	4524.1
80°	302.6	286.6	285.3	365.2	377.2	406.5	550.5	1101.1	1730.2	1049.1	793.1
82.5°	251.9	234.6	212.0	285.3	257.3	249.3	238.6	447.9	550.5	270.6	230.6
85°	176.0	168.0	160.0	186.7	146.7	125.3	114.6	209.3	232.0	114.6	101.3
87.5°	76.0	78.6	79.9	82.6	61.3	44.0	44.0	58.6	58.6	45.3	33.3
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)