

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: P965636

Luminaire Tested: **NAV-SB4A-740-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4A-740-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20429.3 lumens
Efficiency: N/A
Efficacy: 179.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

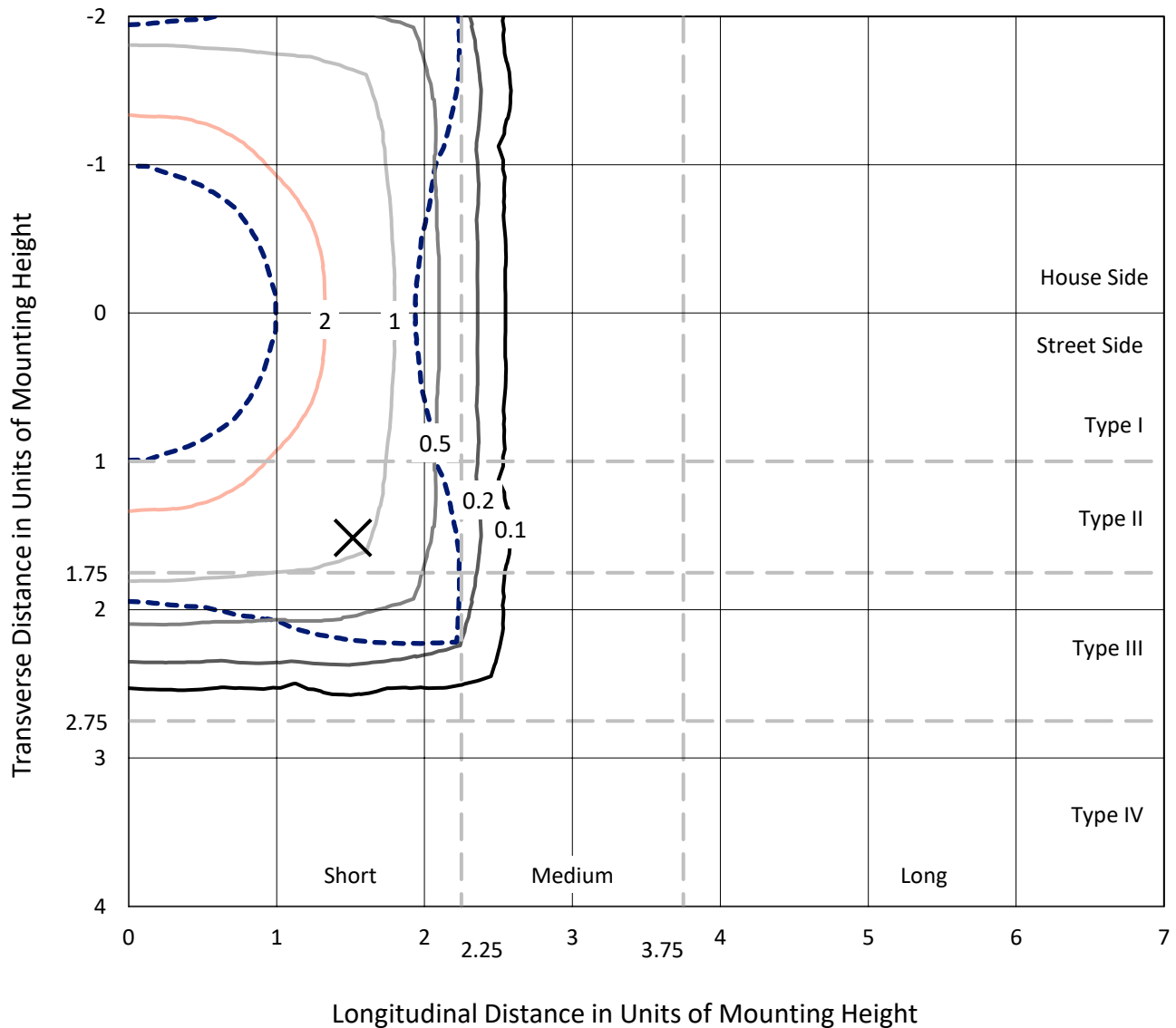
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

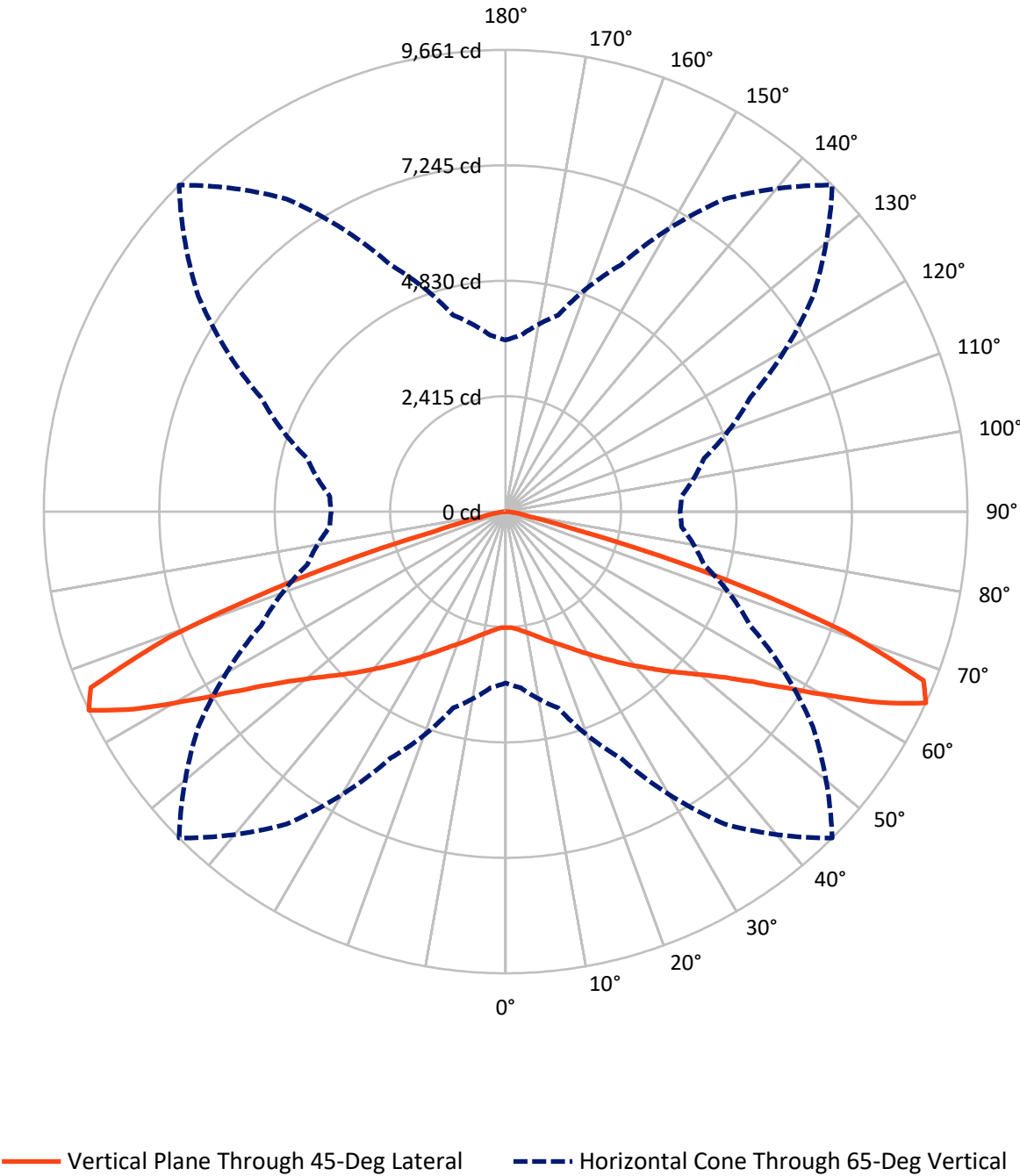
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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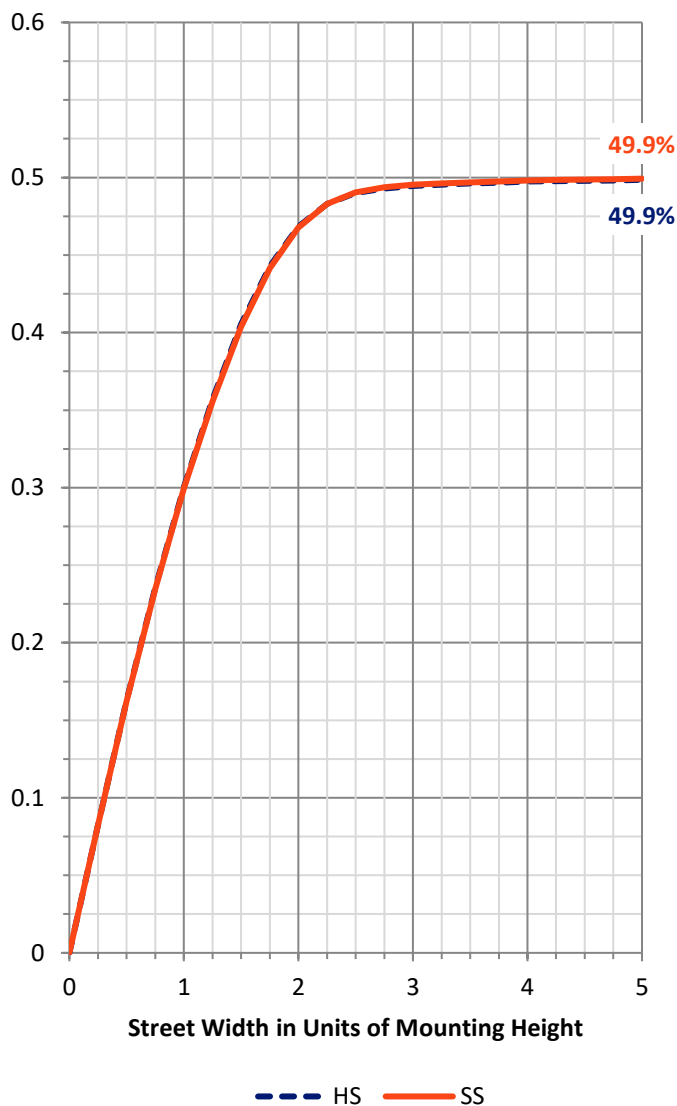
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10214.7	0.0	10214.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10214.7	0.0	10214.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	20429.3	0.0	20429.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.9	1.2
10°-20°	783.0	3.8
20°-30°	1478.3	7.2
30°-40°	2420.7	11.8
40°-50°	3753.3	18.4
50°-60°	5544.4	27.1
60°-70°	5277.8	25.8
70°-80°	851.6	4.2
80°-90°	80.3	0.4
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°	20429.3	100.0
0°-180°	20429.3	100.0

Coefficient of Utilization



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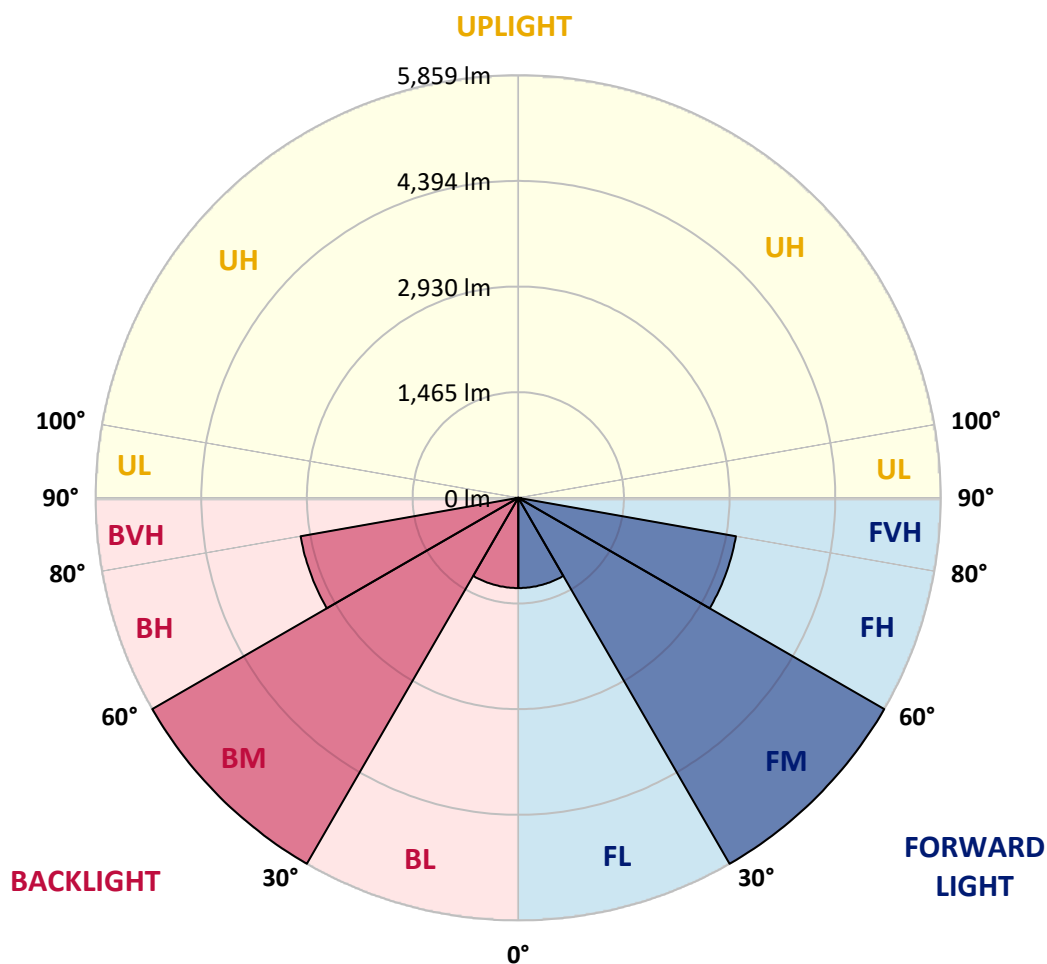
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1250.6	6.1			
FM	(30°-60°)	5859.2	28.7			
FH	(60°-80°)	3064.7	15.0			G2/5000
FVH	(80°-90°)	40.1	0.2			G1/100
BL	(0°-30°)	1250.6	6.1	B3/2500		
BM	(30°-60°)	5859.2	28.7	B4/8500		
BH	(60°-80°)	3064.7	15.0	B4/5000		G2/5000
BVH	(80°-90°)	40.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3
2.5°	2447.7	2439.5	2445.6	2440.5	2436.4	2432.3	2434.4	2441.5	2444.6	2445.6	2445.6
5°	2480.5	2473.3	2476.4	2476.4	2469.2	2467.2	2468.2	2473.3	2479.5	2479.5	2479.5
7.5°	2533.8	2526.6	2533.8	2529.7	2523.5	2521.5	2520.5	2524.6	2533.8	2533.8	2530.7
10°	2598.4	2590.2	2594.3	2592.2	2585.0	2582.0	2581.0	2587.1	2595.3	2594.3	2592.2
12.5°	2669.1	2659.9	2665.0	2658.8	2656.8	2653.7	2653.7	2652.7	2657.8	2653.7	2655.8
15°	2748.0	2741.9	2743.9	2739.8	2742.9	2740.8	2732.6	2728.5	2730.6	2724.4	2725.5
17.5°	2841.3	2827.0	2834.1	2832.1	2832.1	2836.2	2822.8	2817.7	2821.8	2815.7	2820.8
20°	2948.9	2934.6	2937.6	2933.5	2928.4	2932.5	2916.1	2920.2	2923.3	2919.2	2928.4
22.5°	3066.8	3048.4	3047.3	3049.4	3038.1	3039.1	3027.8	3038.1	3044.2	3033.0	3044.2
25°	3187.7	3168.3	3181.6	3176.5	3162.1	3165.2	3157.0	3167.2	3172.4	3158.0	3174.4
27.5°	3315.9	3302.6	3314.8	3317.9	3300.5	3312.8	3300.5	3309.7	3314.8	3293.3	3309.7
30°	3465.5	3452.2	3463.5	3471.7	3451.2	3470.6	3460.4	3466.6	3467.6	3442.0	3457.3
32.5°	3628.5	3608.0	3636.7	3640.8	3618.2	3641.8	3628.5	3636.7	3641.8	3607.0	3630.6
35°	3827.3	3801.7	3834.5	3829.4	3809.9	3829.4	3817.1	3829.4	3841.7	3799.7	3825.3
37.5°	4041.6	4014.9	4049.8	4040.6	4022.1	4035.4	4028.2	4036.4	4055.9	4010.8	4038.5
40°	4277.3	4244.5	4291.7	4275.3	4257.8	4255.8	4259.9	4265.0	4290.6	4240.4	4256.8
42.5°	4529.5	4494.6	4565.3	4539.7	4515.1	4498.7	4512.0	4522.3	4546.9	4490.5	4520.2
45°	4817.5	4777.5	4869.8	4839.0	4800.1	4766.2	4787.8	4803.2	4839.0	4771.4	4806.2
47.5°	5135.2	5090.2	5188.5	5179.3	5115.8	5042.0	5091.2	5135.2	5161.9	5079.9	5107.6
50°	5445.8	5411.0	5540.1	5551.4	5473.5	5370.0	5438.6	5505.3	5512.4	5404.8	5418.2
52.5°	5736.9	5702.1	5889.6	5960.4	5890.7	5767.7	5840.4	5908.1	5853.8	5714.4	5718.5
55°	5969.6	5940.9	6179.7	6362.2	6385.7	6284.3	6327.3	6325.3	6146.9	5932.7	5939.9
57.5°	6026.0	6021.9	6323.2	6709.6	6955.6	6968.0	6882.9	6665.6	6281.2	5993.2	5974.7
60°	5769.7	5795.3	6209.4	6891.1	7547.1	7819.7	7451.7	6831.6	6128.5	5728.7	5681.6
62.5°	5003.0	5070.7	5569.8	6669.7	8024.7	8799.6	7907.9	6579.5	5501.2	4979.4	4948.7
65°	3585.4	3703.3	4254.8	5691.8	7981.7	9660.6	7842.3	5645.7	4295.8	3694.1	3650.0
67.5°	1626.7	1746.6	2215.0	3897.0	6938.2	9426.9	6921.8	3938.0	2325.7	1752.7	1727.1
70°	589.4	609.9	760.6	1560.0	4434.2	7511.2	4623.8	1571.3	808.7	649.8	641.6
72.5°	356.7	359.8	391.5	558.6	1540.6	4560.2	1606.2	577.1	399.7	354.6	360.8
75°	226.5	224.5	278.8	341.3	546.3	1538.5	573.0	341.3	277.8	253.2	255.2
77.5°	163.0	168.1	199.9	255.2	344.4	521.7	338.2	244.0	199.9	164.0	167.1
80°	122.0	125.0	145.5	198.8	241.9	324.9	215.2	180.4	150.7	102.5	105.6
82.5°	88.1	88.1	95.3	144.5	147.6	175.3	116.8	127.1	99.4	72.8	72.8
85°	52.3	51.2	59.4	86.1	76.9	64.6	53.3	77.9	62.5	45.1	44.1
87.5°	18.4	19.5	18.4	24.6	20.5	17.4	16.4	21.5	17.4	15.4	14.3
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)