

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: P964117

Luminaire Tested: **NAV-SB3B-760-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964117
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-SB3B-760-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19199.3 lumens
Efficiency: N/A
Efficacy: 175.8 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): 109.2
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

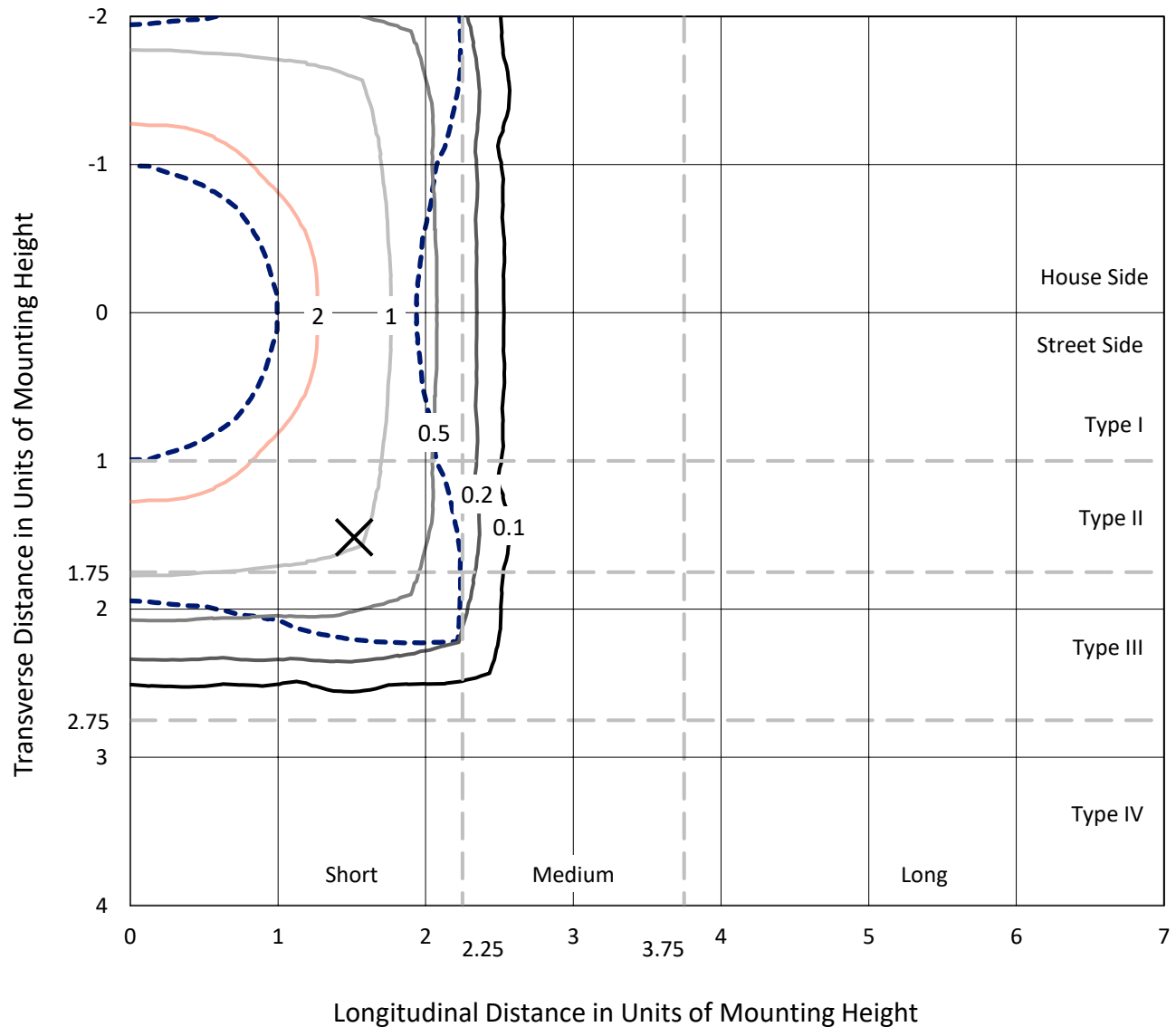


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Iso-Footcandle Lines of Horizontal Illumination

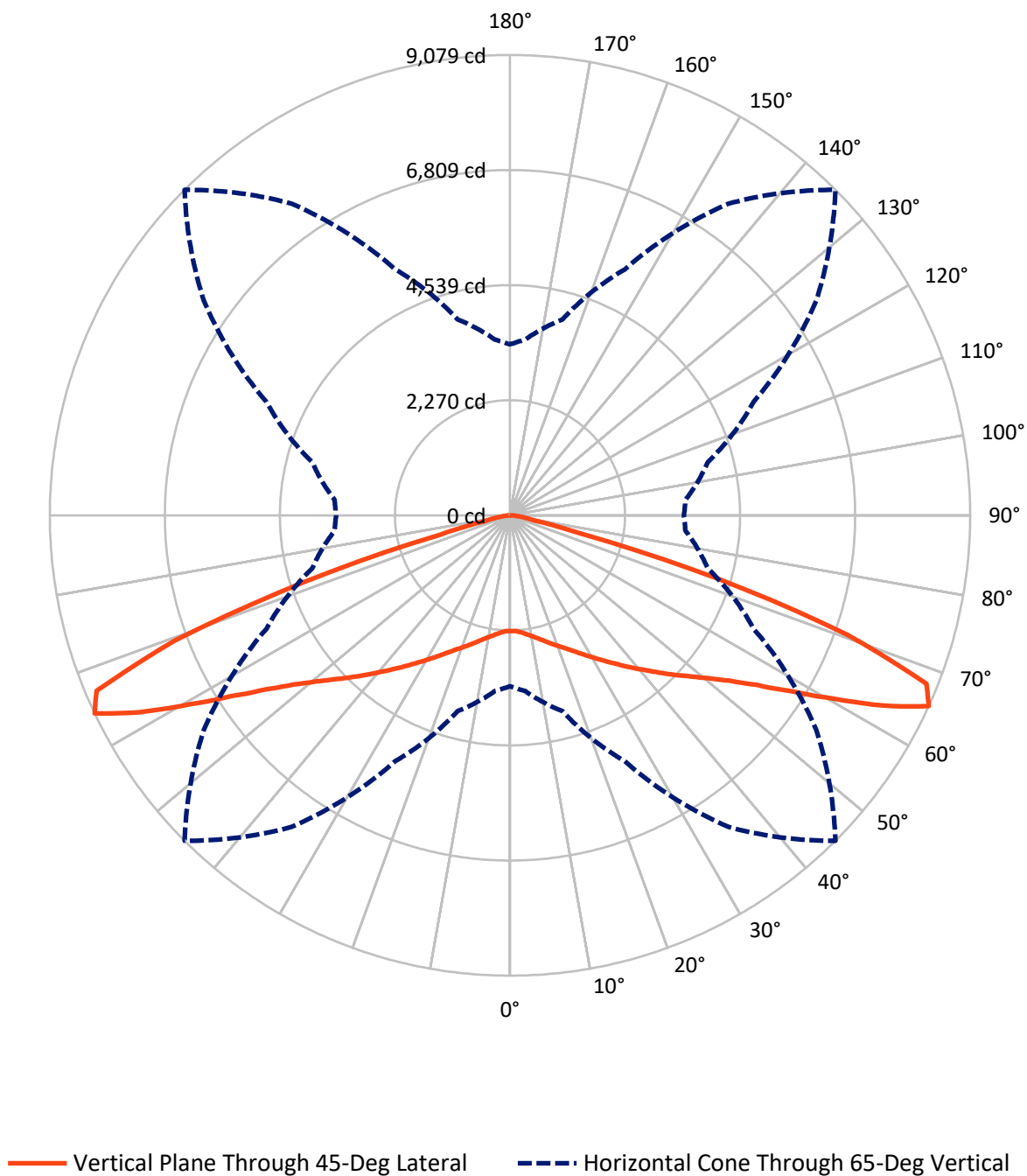
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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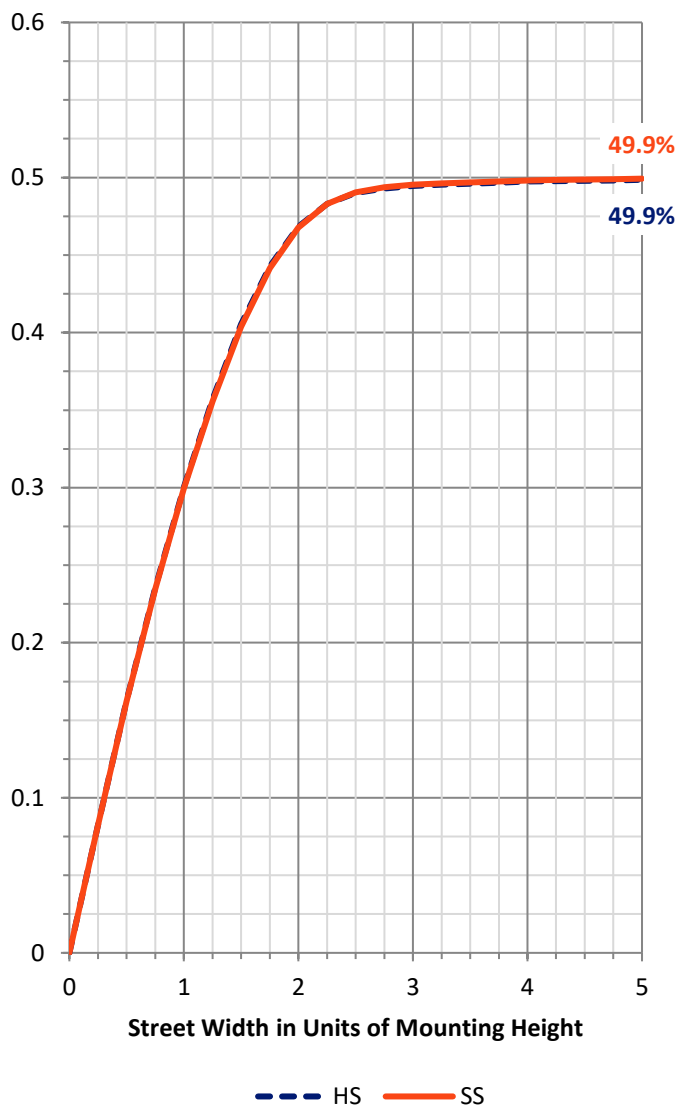
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9599.6	0.0	9599.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9599.6	0.0	9599.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	19199.3	0.0	19199.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.5	1.2
10°-20°	735.8	3.8
20°-30°	1389.3	7.2
30°-40°	2274.9	11.8
40°-50°	3527.3	18.4
50°-60°	5210.6	27.1
60°-70°	4960.0	25.8
70°-80°	800.4	4.2
80°-90°	75.4	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°	19199.3	100.0
0°-180°	19199.3	100.0

Coefficient of Utilization



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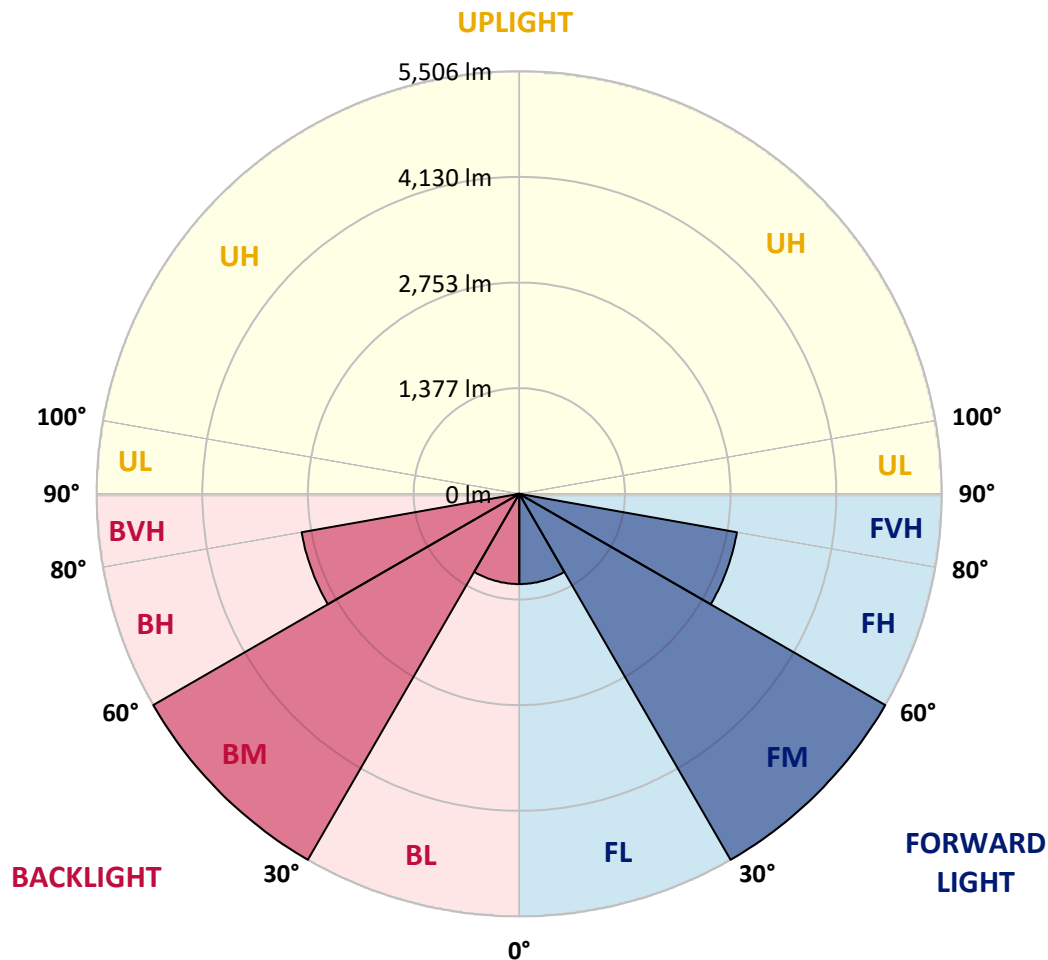
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1175.3	6.1			
FM	(30°-60°)	5506.4	28.7			
FH	(60°-80°)	2880.2	15.0			G2/5000
FVH	(80°-90°)	37.7	0.2			G1/100
BL	(0°-30°)	1175.3	6.1	B3/2500		
BM	(30°-60°)	5506.4	28.7	B4/8500		
BH	(60°-80°)	2880.2	15.0	B4/5000		G2/5000
BVH	(80°-90°)	37.7	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°	2284.9	2284.9	2284.9	2284.9	2284.9	2284.9	2284.9	2284.9	2284.9	2284.9	2284.9
2.5°	2300.3	2292.6	2298.4	2293.5	2289.7	2285.9	2287.8	2294.6	2297.4	2298.4	2298.4
5°	2331.2	2324.4	2327.3	2327.3	2320.5	2318.7	2319.6	2324.4	2330.1	2330.1	2330.1
7.5°	2381.3	2374.5	2381.3	2377.4	2371.6	2369.7	2368.7	2372.6	2381.3	2381.3	2378.3
10°	2442.0	2434.2	2438.1	2436.1	2429.4	2426.5	2425.6	2431.3	2439.0	2438.1	2436.1
12.5°	2508.4	2499.7	2504.5	2498.7	2496.8	2493.9	2493.9	2493.0	2497.8	2493.9	2495.9
15°	2582.6	2576.7	2578.7	2574.9	2577.8	2575.8	2568.1	2564.2	2566.2	2560.4	2561.4
17.5°	2670.2	2656.7	2663.5	2661.5	2661.5	2665.4	2652.9	2648.1	2651.9	2646.1	2651.0
20°	2771.4	2757.9	2760.7	2756.9	2752.1	2755.9	2740.5	2744.4	2747.3	2743.4	2752.1
22.5°	2882.1	2864.8	2863.8	2865.8	2855.1	2856.2	2845.5	2855.1	2861.0	2850.3	2861.0
25°	2995.8	2977.5	2990.0	2985.2	2971.7	2974.7	2966.9	2976.5	2981.3	2967.9	2983.3
27.5°	3116.2	3103.7	3115.3	3118.2	3101.8	3113.3	3101.8	3110.5	3115.3	3095.0	3110.5
30°	3256.8	3244.3	3254.9	3262.7	3243.4	3261.7	3252.0	3257.9	3258.8	3234.7	3249.1
32.5°	3410.0	3390.8	3417.8	3421.6	3400.4	3422.6	3410.0	3417.8	3422.6	3389.8	3411.9
35°	3596.9	3572.8	3603.6	3598.8	3580.5	3598.8	3587.3	3598.8	3610.4	3570.9	3595.0
37.5°	3798.2	3773.1	3805.9	3797.2	3779.9	3792.4	3785.7	3793.4	3811.7	3769.3	3795.4
40°	4019.7	3989.0	4033.3	4017.9	4001.5	3999.6	4003.4	4008.3	4032.3	3985.1	4000.5
42.5°	4256.7	4224.0	4290.4	4266.4	4243.3	4227.8	4240.3	4250.0	4273.1	4220.1	4248.1
45°	4527.4	4489.9	4576.5	4547.6	4511.0	4479.2	4499.4	4513.9	4547.6	4484.1	4516.9
47.5°	4826.0	4783.7	4876.1	4867.4	4807.8	4738.4	4784.6	4826.0	4851.1	4774.0	4800.1
50°	5117.9	5085.1	5206.6	5217.1	5144.0	5046.6	5111.2	5173.8	5180.6	5079.4	5091.9
52.5°	5391.5	5358.7	5535.0	5601.5	5536.0	5420.4	5488.8	5552.3	5501.3	5370.3	5374.2
55°	5610.1	5583.2	5807.6	5979.1	6001.3	5905.8	5946.3	5944.4	5776.8	5575.5	5582.3
57.5°	5663.1	5659.3	5942.5	6305.7	6536.8	6548.4	6468.5	6264.2	5903.0	5632.3	5615.0
60°	5422.4	5446.4	5835.5	6476.2	7092.7	7348.8	7003.1	6420.3	5759.5	5383.8	5339.4
62.5°	4701.8	4765.3	5234.5	6268.1	7541.5	8269.8	7431.8	6183.3	5169.9	4679.6	4650.7
65°	3369.6	3480.4	3998.6	5349.1	7501.1	9078.9	7370.1	5305.8	4037.2	3471.7	3430.3
67.5°	1528.7	1641.4	2081.7	3662.4	6520.4	8859.3	6505.1	3701.0	2185.7	1647.2	1623.1
70°	553.9	573.2	714.7	1466.2	4167.1	7059.0	4345.4	1476.7	760.0	610.7	603.0
72.5°	335.2	338.1	368.0	525.0	1447.8	4285.6	1509.4	542.3	375.7	333.3	339.1
75°	212.9	210.9	262.0	320.7	513.4	1445.9	538.4	320.7	261.1	237.9	239.8
77.5°	153.1	158.0	187.9	239.8	323.7	490.4	317.9	229.3	187.9	154.2	157.0
80°	114.6	117.6	136.7	186.9	227.3	305.3	202.3	169.5	141.6	96.4	99.2
82.5°	82.8	82.8	89.6	135.8	138.7	164.7	109.8	119.4	93.5	68.4	68.4
85°	49.1	48.2	55.9	80.9	72.3	60.7	50.1	73.2	58.7	42.4	41.4
87.5°	17.3	18.3	17.3	23.2	19.3	16.4	15.4	20.2	16.4	14.5	13.5
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)