

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: P964706

Luminaire Tested: **NAV-SB3C-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964706
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-SB3C-830-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21685.9 lumens
Efficiency: N/A
Efficacy: 145.4 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): 149.1
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

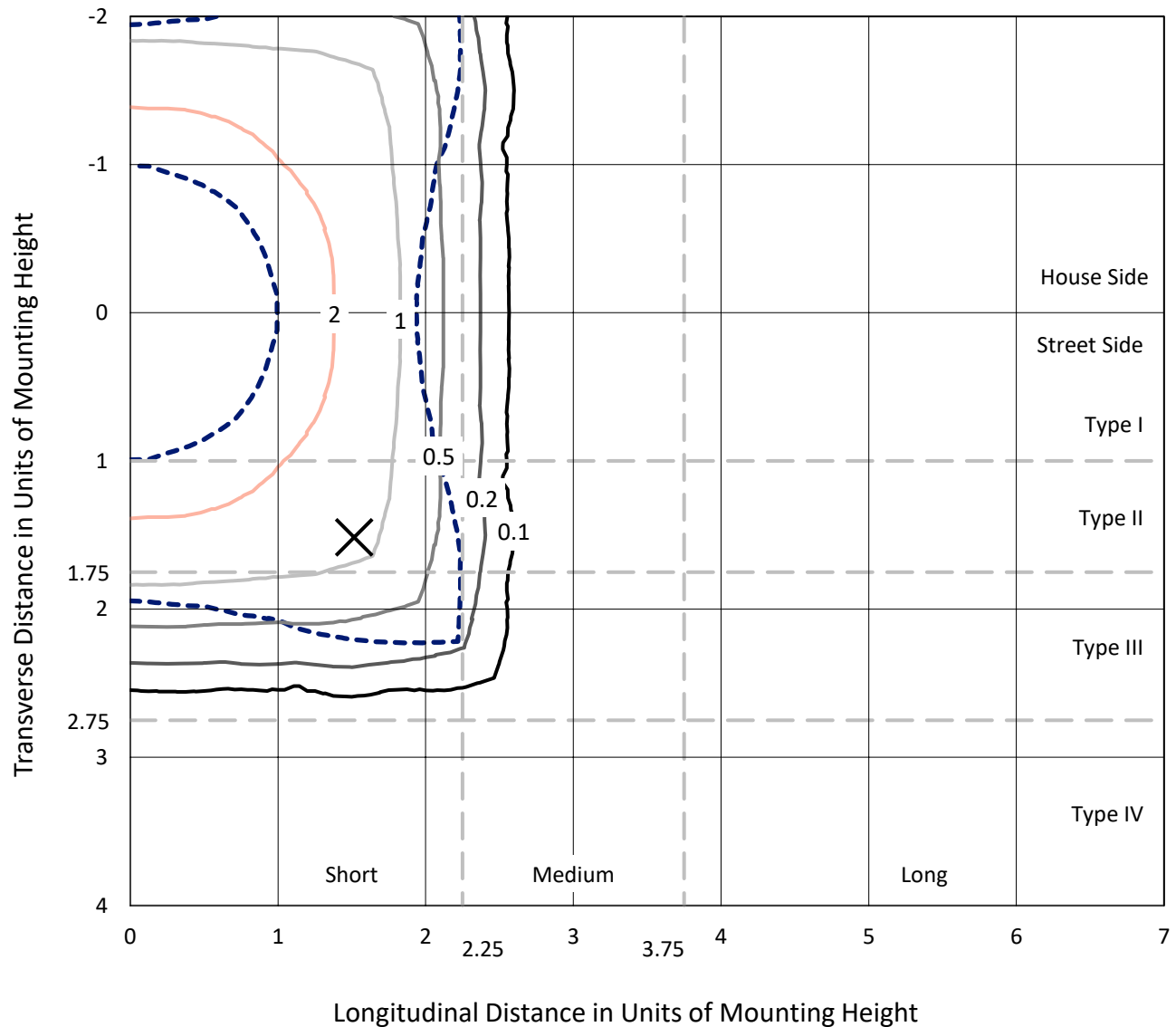


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Iso-Footcandle Lines of Horizontal Illumination

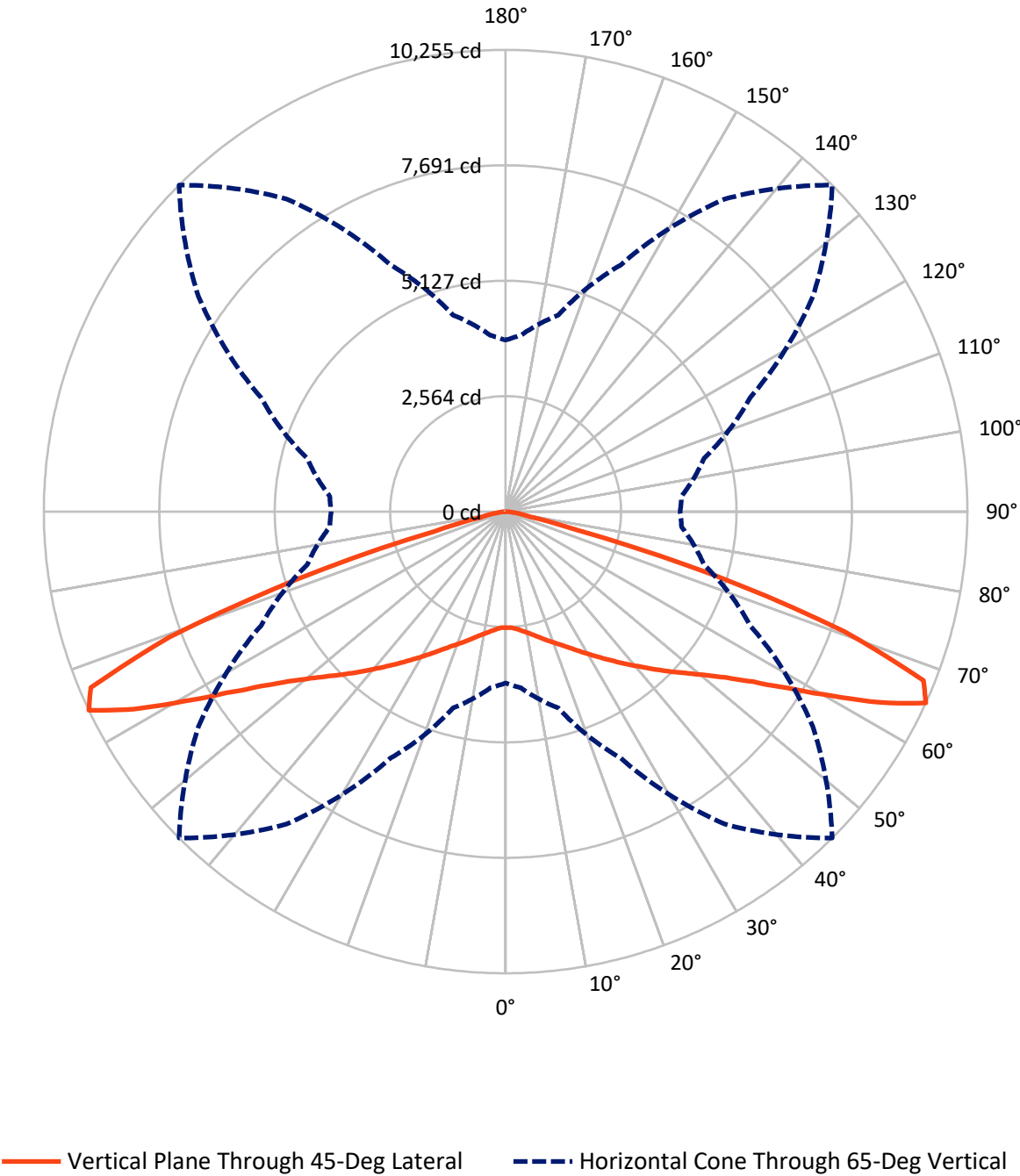
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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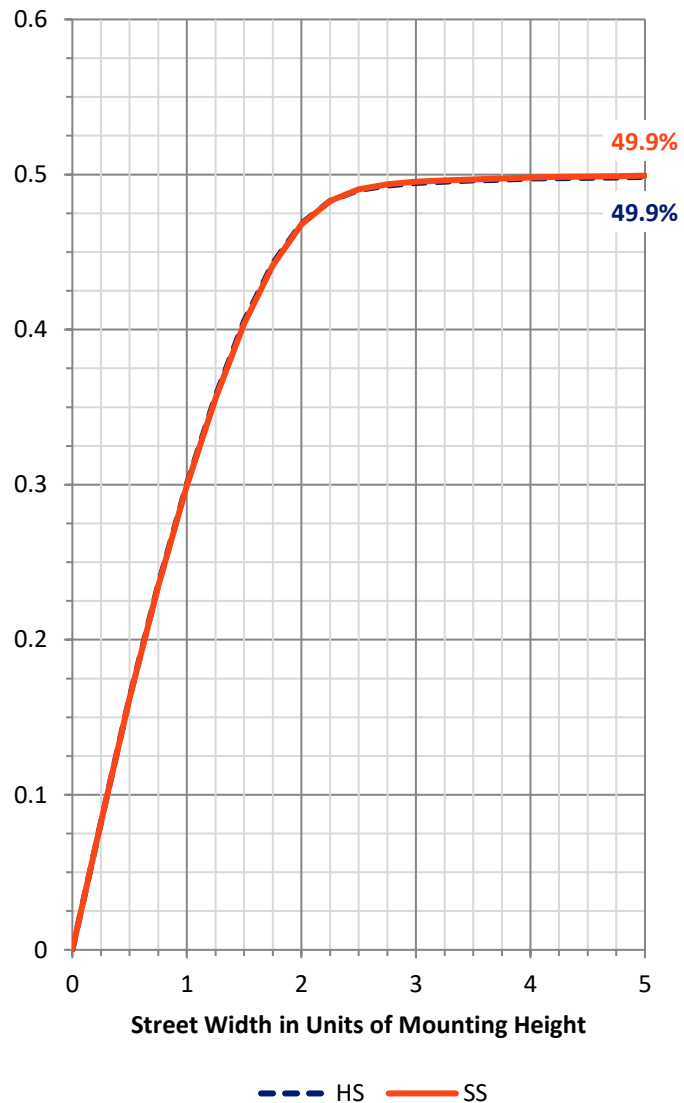
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10843.0	0.0	10843.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10843.0	0.0	10843.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21685.9	0.0	21685.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.7	1.2
10°-20°	831.1	3.8
20°-30°	1569.3	7.2
30°-40°	2569.6	11.8
40°-50°	3984.2	18.4
50°-60°	5885.5	27.1
60°-70°	5602.4	25.8
70°-80°	904.0	4.2
80°-90°	85.2	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°	21685.9	100.0
0°-180°	21685.9	100.0

Coefficient of Utilization



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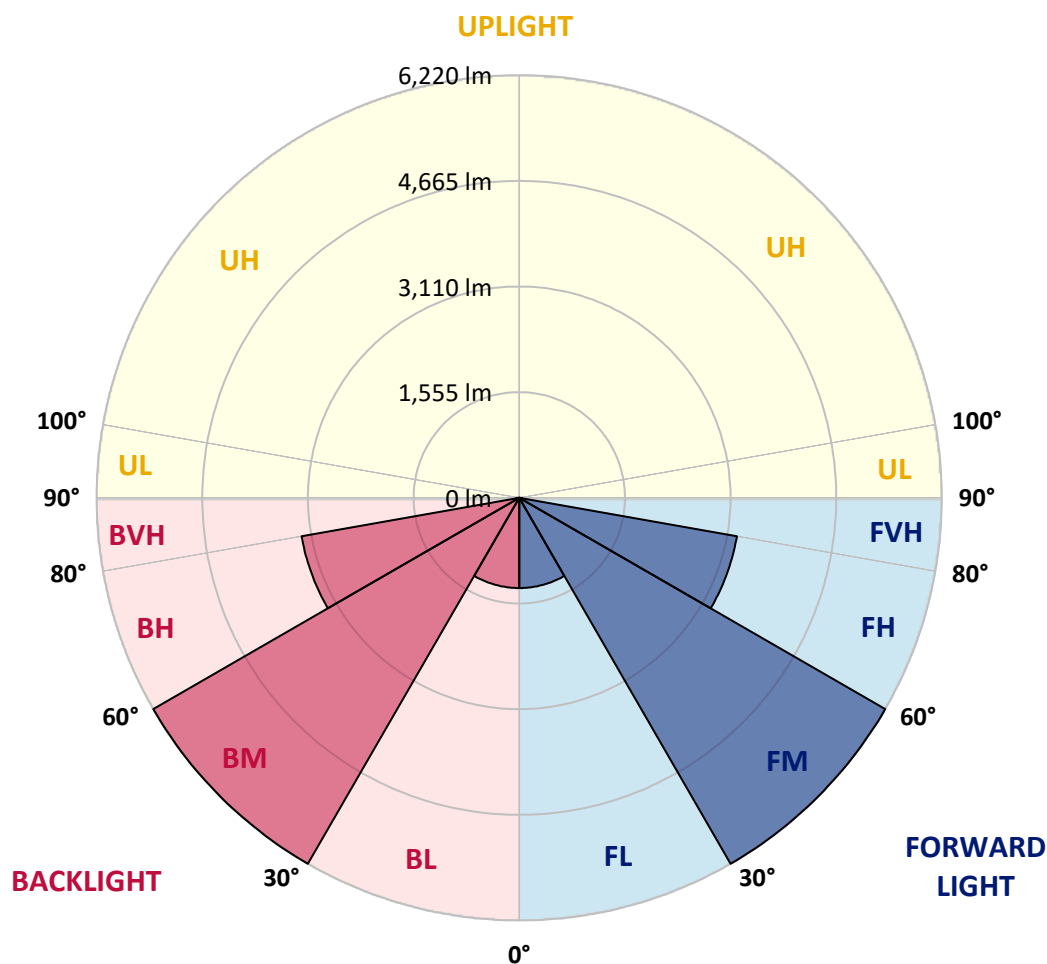
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1327.5	6.1			
FM	(30°-60°)	6219.6	28.7			
FH	(60°-80°)	3253.2	15.0			G2/5000
FVH	(80°-90°)	42.6	0.2			G1/100
BL	(0°-30°)	1327.5	6.1	B3/2500		
BM	(30°-60°)	6219.6	28.7	B4/8500		
BH	(60°-80°)	3253.2	15.0	B4/5000		G2/5000
BVH	(80°-90°)	42.6	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°	2580.8	2580.8	2580.8	2580.8	2580.8	2580.8	2580.8	2580.8	2580.8	2580.8	2580.8
2.5°	2598.3	2589.6	2596.1	2590.6	2586.3	2582.0	2584.1	2591.7	2595.0	2596.1	2596.1
5°	2633.0	2625.4	2628.7	2628.7	2621.1	2618.9	2620.0	2625.4	2632.0	2632.0	2632.0
7.5°	2689.6	2682.0	2689.6	2685.3	2678.7	2676.6	2675.5	2679.9	2689.6	2689.6	2686.4
10°	2758.2	2749.5	2753.9	2751.7	2744.0	2740.7	2739.7	2746.2	2754.9	2753.9	2751.7
12.5°	2833.3	2823.5	2828.9	2822.3	2820.2	2816.9	2816.9	2815.9	2821.3	2816.9	2819.2
15°	2917.0	2910.5	2912.7	2908.3	2911.6	2909.5	2900.7	2896.3	2898.6	2892.0	2893.1
17.5°	3016.1	3000.8	3008.5	3006.2	3006.2	3010.6	2996.5	2991.1	2995.4	2988.9	2994.3
20°	3130.4	3115.1	3118.4	3114.0	3108.5	3112.9	3095.5	3099.8	3103.1	3098.8	3108.5
22.5°	3255.4	3235.8	3234.8	3237.0	3225.0	3226.1	3214.1	3225.0	3231.5	3219.5	3231.5
25°	3383.8	3363.1	3377.3	3371.8	3356.6	3359.8	3351.1	3362.1	3367.5	3352.3	3369.7
27.5°	3519.8	3505.7	3518.7	3522.0	3503.6	3516.6	3503.6	3513.3	3518.7	3495.9	3513.3
30°	3678.7	3664.6	3676.5	3685.2	3663.5	3684.2	3673.2	3679.7	3680.9	3653.6	3670.0
32.5°	3851.6	3829.9	3860.4	3864.8	3840.8	3865.8	3851.6	3860.4	3865.8	3828.8	3853.9
35°	4062.8	4035.5	4070.4	4064.9	4044.2	4064.9	4051.9	4064.9	4078.0	4033.4	4060.5
37.5°	4290.1	4261.8	4298.8	4289.1	4269.5	4283.7	4276.0	4284.7	4305.4	4257.5	4286.9
40°	4540.4	4505.6	4555.6	4538.2	4519.7	4517.6	4521.9	4527.3	4554.6	4501.3	4518.6
42.5°	4808.1	4771.1	4846.2	4818.9	4792.8	4775.5	4789.6	4800.5	4826.5	4766.8	4798.2
45°	5113.8	5071.4	5169.3	5136.7	5095.3	5059.4	5082.3	5098.6	5136.7	5064.8	5101.8
47.5°	5451.2	5403.2	5507.6	5497.9	5430.4	5352.1	5404.3	5451.2	5479.3	5392.3	5421.7
50°	5780.8	5743.8	5880.8	5892.8	5810.1	5700.2	5773.2	5843.9	5851.5	5737.2	5751.4
52.5°	6089.8	6052.8	6251.9	6327.0	6253.0	6122.4	6199.7	6271.5	6213.9	6065.8	6070.2
55°	6336.8	6306.3	6559.8	6753.5	6778.5	6670.8	6716.5	6714.4	6525.0	6297.6	6305.2
57.5°	6396.6	6392.3	6712.1	7122.3	7383.5	7396.5	7306.2	7075.6	6667.5	6361.8	6342.2
60°	6124.6	6151.8	6591.4	7314.9	8011.3	8300.7	7910.1	7251.8	6505.5	6081.1	6031.0
62.5°	5310.7	5382.6	5912.4	7079.9	8518.3	9340.8	8394.2	6984.1	5839.5	5285.7	5253.1
65°	3806.0	3931.1	4516.5	6041.9	8472.6	10254.8	8324.6	5993.0	4560.0	3921.3	3874.5
67.5°	1726.7	1854.0	2351.2	4136.7	7364.9	10006.8	7347.6	4180.3	2468.8	1860.6	1833.3
70°	625.7	647.4	807.3	1656.0	4706.9	7973.2	4908.2	1668.0	858.4	689.8	681.1
72.5°	378.6	381.9	415.6	593.0	1635.3	4840.7	1705.0	612.5	424.4	376.5	383.0
75°	240.5	238.3	295.9	362.3	579.9	1633.1	608.2	362.3	294.9	268.8	270.9
77.5°	173.0	178.5	212.2	270.9	365.6	553.8	359.1	258.9	212.2	174.0	177.3
80°	129.5	132.7	154.5	211.0	256.8	344.9	228.5	191.5	159.9	108.9	112.0
82.5°	93.6	93.6	101.2	153.4	156.7	186.0	124.0	134.9	105.6	77.3	77.3
85°	55.5	54.4	63.1	91.4	81.6	68.6	56.6	82.7	66.4	47.9	46.7
87.5°	19.6	20.7	19.6	26.1	21.7	18.4	17.4	22.9	18.4	16.3	15.3
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)