

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: P963528

Luminaire Tested: **NAV-SB3A-740-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963528
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-SB3A-740-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 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: 15294 lumens
Efficiency: N/A
Efficacy: 180.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

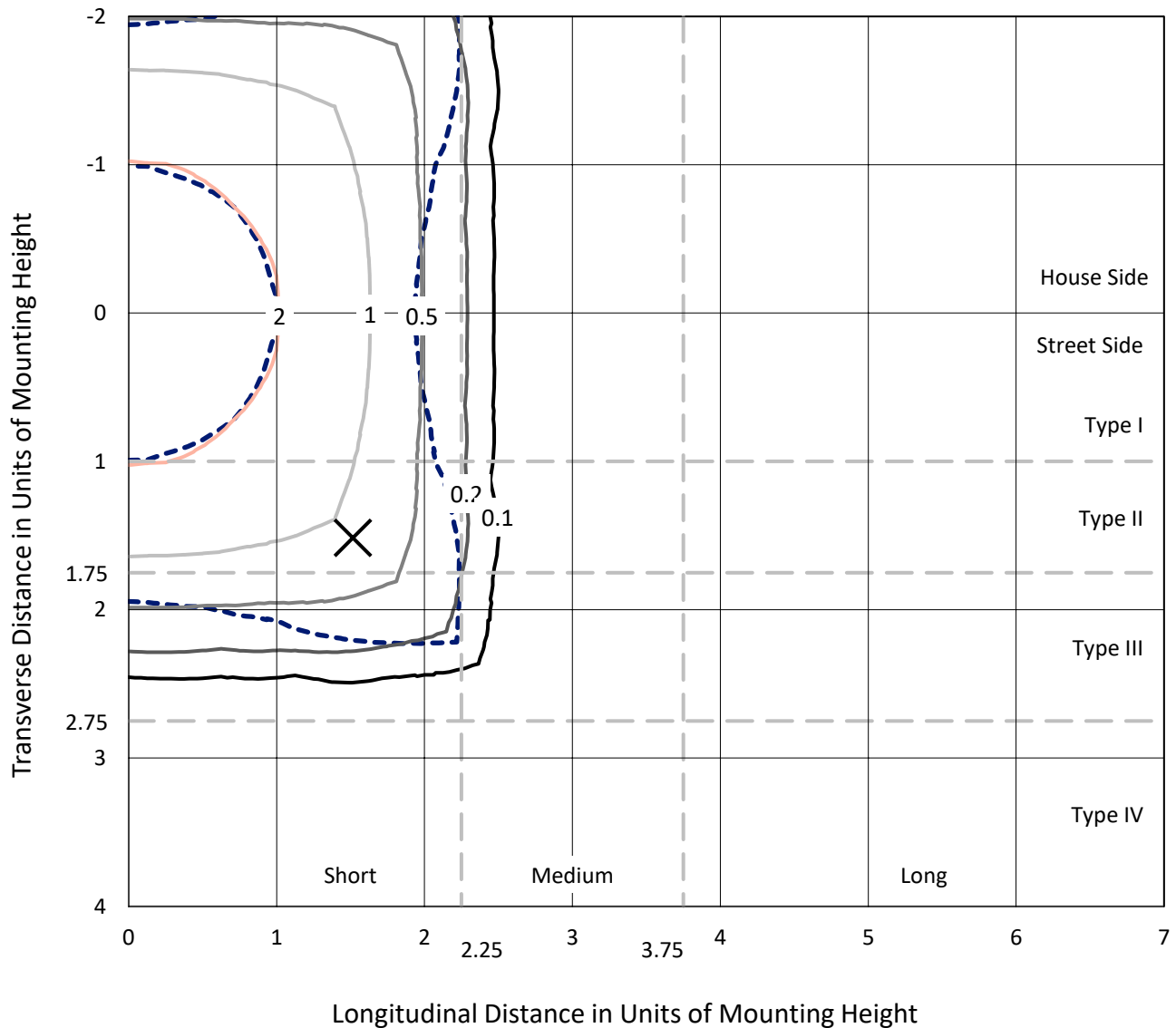
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

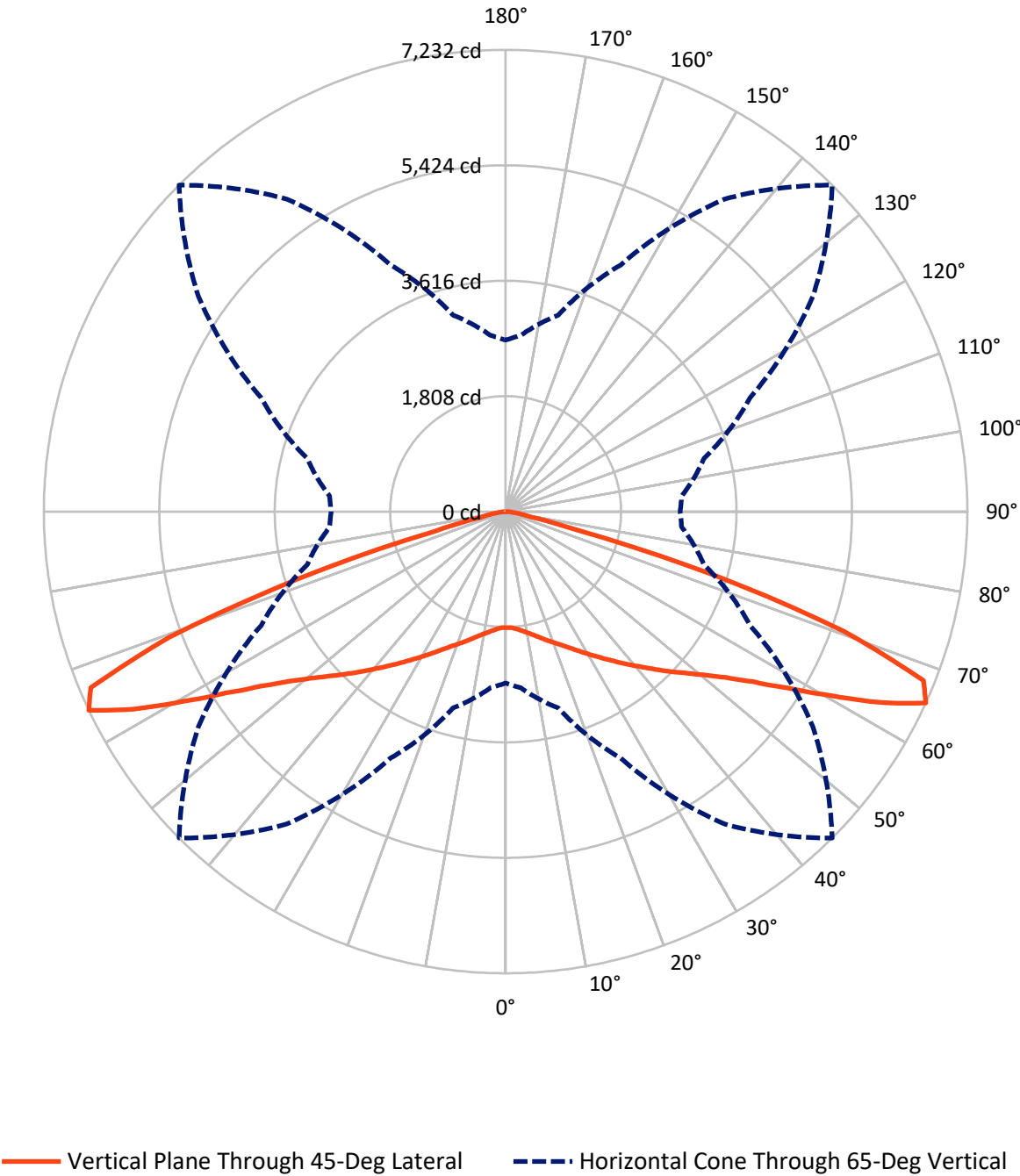
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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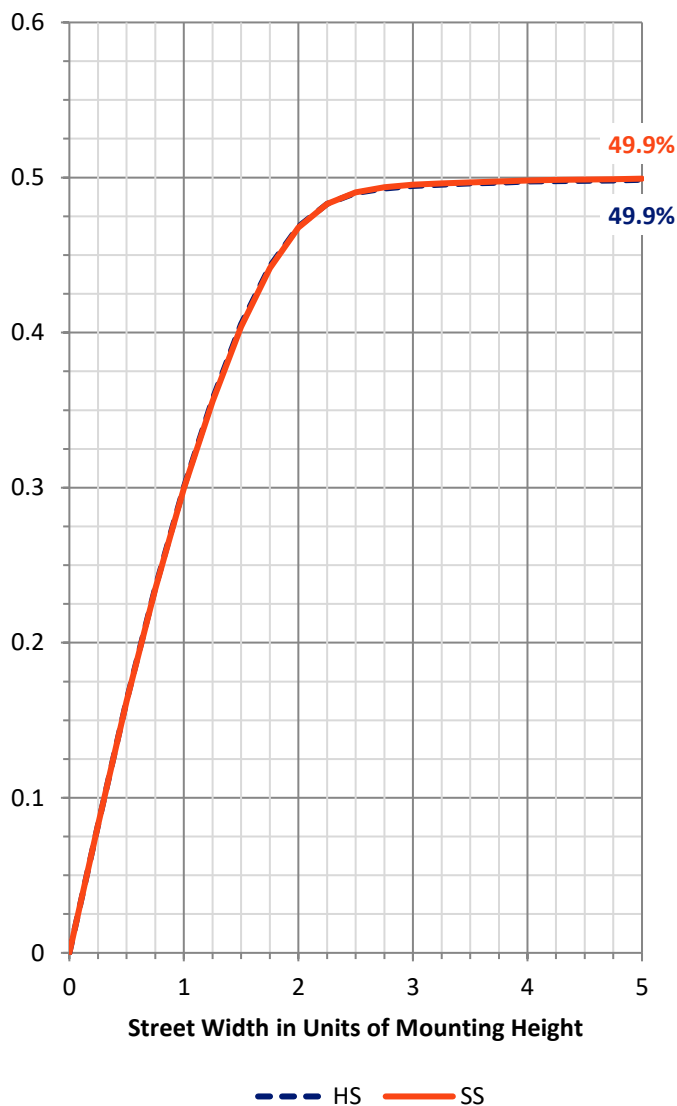
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7647.0	0.0	7647.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7647.0	0.0	7647.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15294.0	0.0	15294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.6	1.2
10°-20°	586.1	3.8
20°-30°	1106.7	7.2
30°-40°	1812.2	11.8
40°-50°	2809.8	18.4
50°-60°	4150.7	27.1
60°-70°	3951.1	25.8
70°-80°	637.6	4.2
80°-90°	60.1	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°	15294.0	100.0
0°-180°	15294.0	100.0

Coefficient of Utilization



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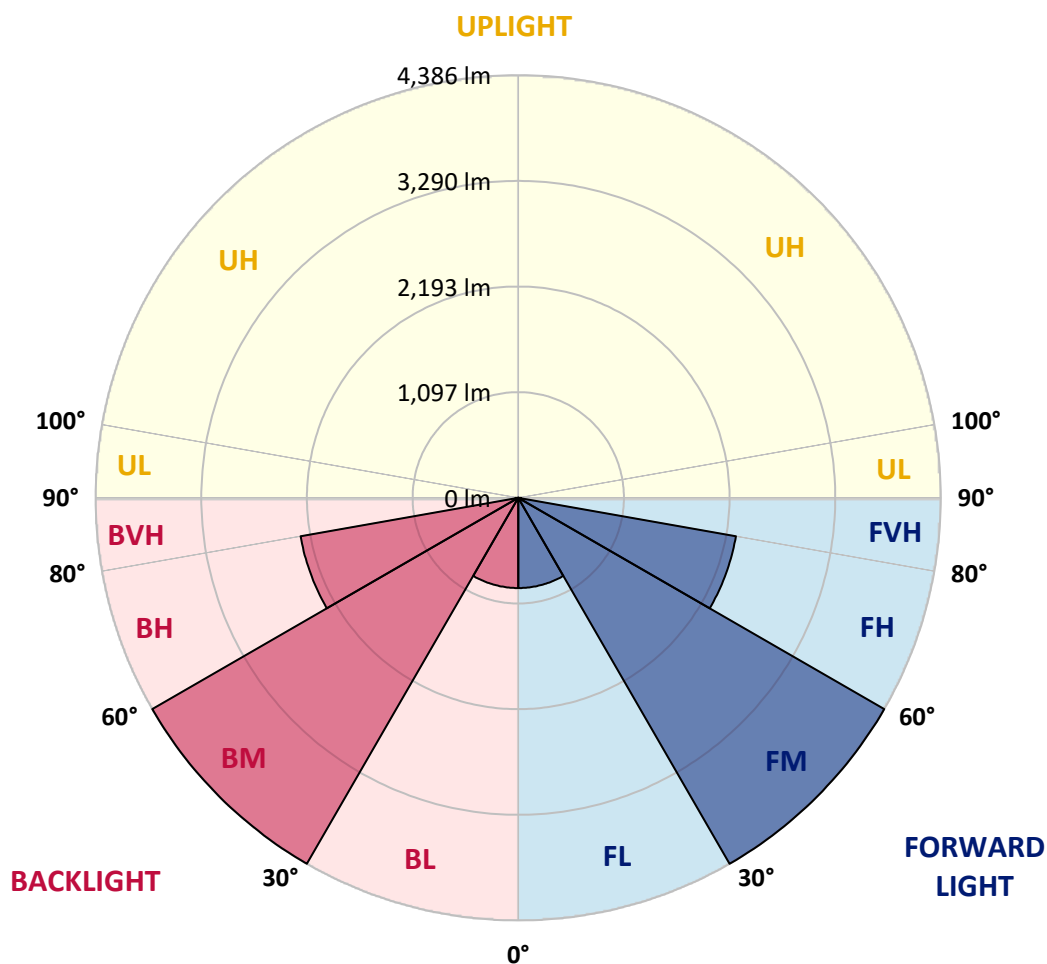
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	936.2	6.1			
FM	(30°-60°)	4386.4	28.7			
FH	(60°-80°)	2294.3	15.0			G2/5000
FVH	(80°-90°)	30.0	0.2			G1/100
BL	(0°-30°)	936.2	6.1	B2/1000		
BM	(30°-60°)	4386.4	28.7	B3/5000		
BH	(60°-80°)	2294.3	15.0	B3/2500		G2/5000
BVH	(80°-90°)	30.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1	1820.1
2.5°	1832.4	1826.2	1830.9	1827.1	1824.0	1820.9	1822.4	1827.8	1830.1	1830.9	1830.9
5°	1857.0	1851.6	1853.9	1853.9	1848.5	1847.0	1847.8	1851.6	1856.2	1856.2	1856.2
7.5°	1896.9	1891.5	1896.9	1893.8	1889.2	1887.6	1886.9	1890.0	1896.9	1896.9	1894.6
10°	1945.2	1939.1	1942.2	1940.6	1935.2	1932.9	1932.1	1936.7	1942.9	1942.2	1940.6
12.5°	1998.1	1991.3	1995.1	1990.4	1988.9	1986.7	1986.7	1985.9	1989.7	1986.7	1988.2
15°	2057.3	2052.7	2054.2	2051.1	2053.4	2051.8	2045.7	2042.7	2044.2	2039.6	2040.4
17.5°	2127.1	2116.3	2121.8	2120.2	2120.2	2123.3	2113.2	2109.4	2112.5	2107.9	2111.7
20°	2207.6	2196.9	2199.2	2196.2	2192.3	2195.3	2183.0	2186.1	2188.5	2185.4	2192.3
22.5°	2295.9	2282.1	2281.3	2282.9	2274.4	2275.2	2266.8	2274.4	2279.0	2270.6	2279.0
25°	2386.4	2371.8	2381.8	2378.0	2367.2	2369.6	2363.4	2371.1	2374.9	2364.2	2376.5
27.5°	2482.3	2472.4	2481.6	2483.9	2470.9	2480.1	2470.9	2477.7	2481.6	2465.4	2477.7
30°	2594.4	2584.4	2592.8	2599.0	2583.6	2598.3	2590.6	2595.2	2595.9	2576.7	2588.2
32.5°	2716.4	2701.1	2722.5	2725.6	2708.8	2726.4	2716.4	2722.5	2726.4	2700.3	2717.9
35°	2865.3	2846.1	2870.6	2866.8	2852.3	2866.8	2857.6	2866.8	2876.0	2844.6	2863.7
37.5°	3025.6	3005.7	3031.7	3024.9	3011.0	3021.1	3015.7	3021.8	3036.4	3002.6	3023.3
40°	3202.1	3177.6	3212.9	3200.6	3187.5	3186.0	3189.1	3192.9	3212.1	3174.5	3186.8
42.5°	3390.9	3364.8	3417.8	3398.6	3380.1	3367.8	3377.9	3385.6	3403.9	3361.7	3384.0
45°	3606.6	3576.6	3645.6	3622.7	3593.4	3568.1	3584.2	3595.8	3622.7	3572.0	3598.1
47.5°	3844.4	3810.6	3884.3	3877.4	3829.8	3774.6	3811.4	3844.4	3864.4	3803.0	3823.7
50°	4076.9	4050.8	4147.5	4156.0	4097.6	4020.2	4071.5	4121.4	4126.8	4046.2	4056.2
52.5°	4294.9	4268.7	4409.1	4462.1	4410.0	4317.8	4372.3	4423.0	4382.3	4277.9	4281.0
55°	4469.0	4447.6	4626.3	4762.9	4780.6	4704.5	4736.8	4735.3	4601.7	4441.4	4446.8
57.5°	4511.2	4508.2	4733.8	5023.0	5207.2	5216.4	5152.7	4990.0	4702.3	4486.6	4472.9
60°	4319.3	4338.5	4648.6	5158.8	5650.0	5854.1	5578.6	5114.3	4588.0	4288.7	4253.4
62.5°	3745.5	3796.1	4169.8	4993.1	6007.5	6587.7	5920.1	4925.6	4118.3	3727.7	3704.8
65°	2684.2	2772.4	3185.3	4261.0	5975.3	7232.2	5871.0	4226.5	3215.9	2765.6	2732.5
67.5°	1217.8	1307.6	1658.2	2917.5	5194.2	7057.2	5181.9	2948.1	1741.1	1312.2	1292.9
70°	441.3	456.5	569.4	1167.9	3319.6	5623.2	3461.5	1176.3	605.5	486.5	480.3
72.5°	267.0	269.4	293.2	418.2	1153.3	3414.0	1202.4	432.0	299.3	265.5	270.1
75°	169.5	168.0	208.7	255.5	409.0	1151.8	429.0	255.5	208.0	189.5	191.1
77.5°	122.0	125.9	149.6	191.1	257.8	390.6	253.2	182.7	149.6	122.8	125.0
80°	91.3	93.6	109.0	148.8	181.1	243.2	161.1	135.1	112.7	76.8	79.0
82.5°	66.0	66.0	71.3	108.2	110.5	131.2	87.4	95.1	74.4	54.5	54.5
85°	39.2	38.3	44.5	64.5	57.5	48.4	39.9	58.3	46.8	33.7	33.0
87.5°	13.8	14.6	13.8	18.4	15.4	13.0	12.3	16.1	13.0	11.5	10.8
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)