

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: P967774

Luminaire Tested: **NAV-SB5A-750-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5A-750-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25733.7 lumens
Efficiency: N/A
Efficacy: 181.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 141.7
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

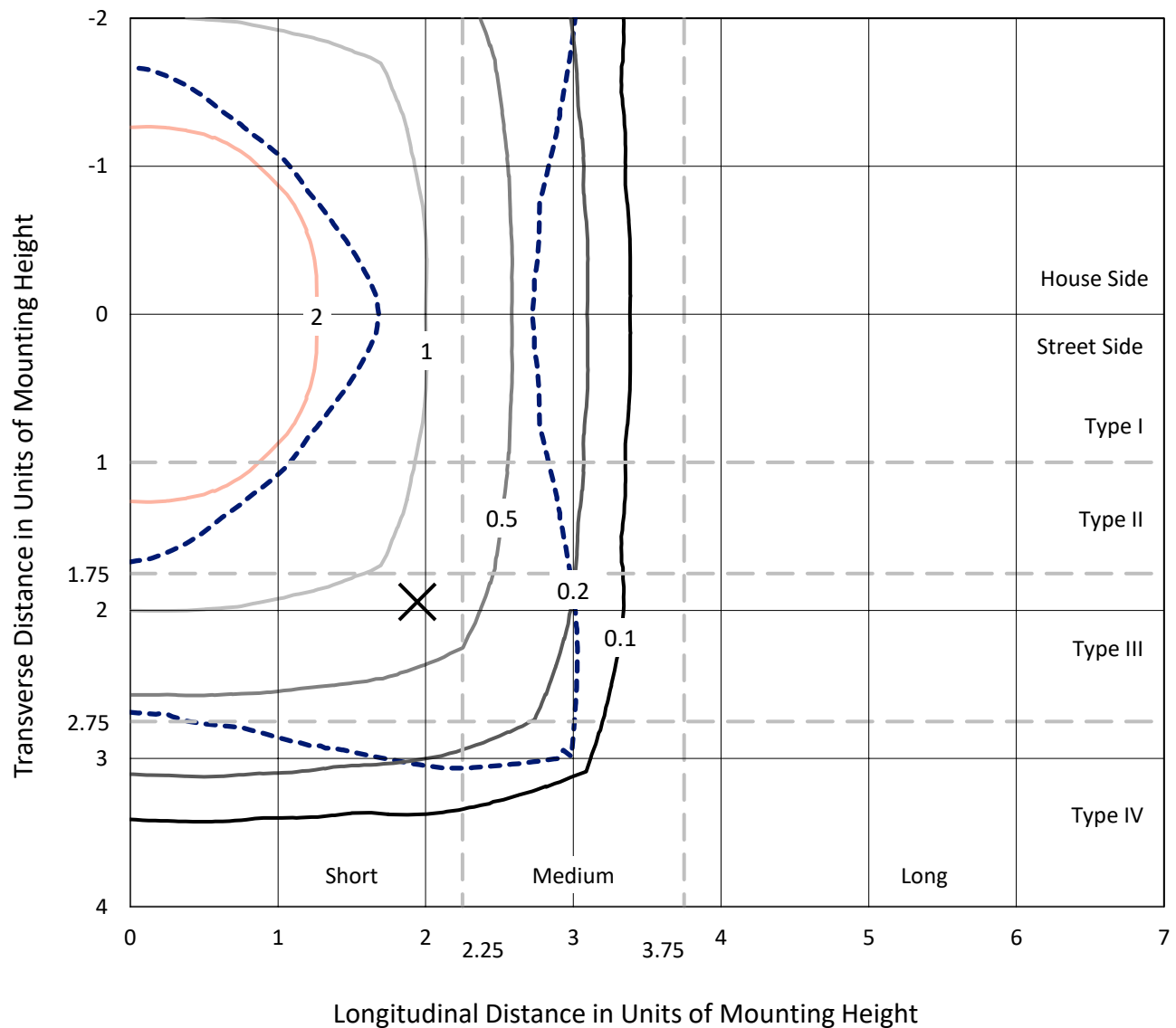


REPORT NUMBER: P967774

CATALOG NUMBER: NAV-SB5A-750-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

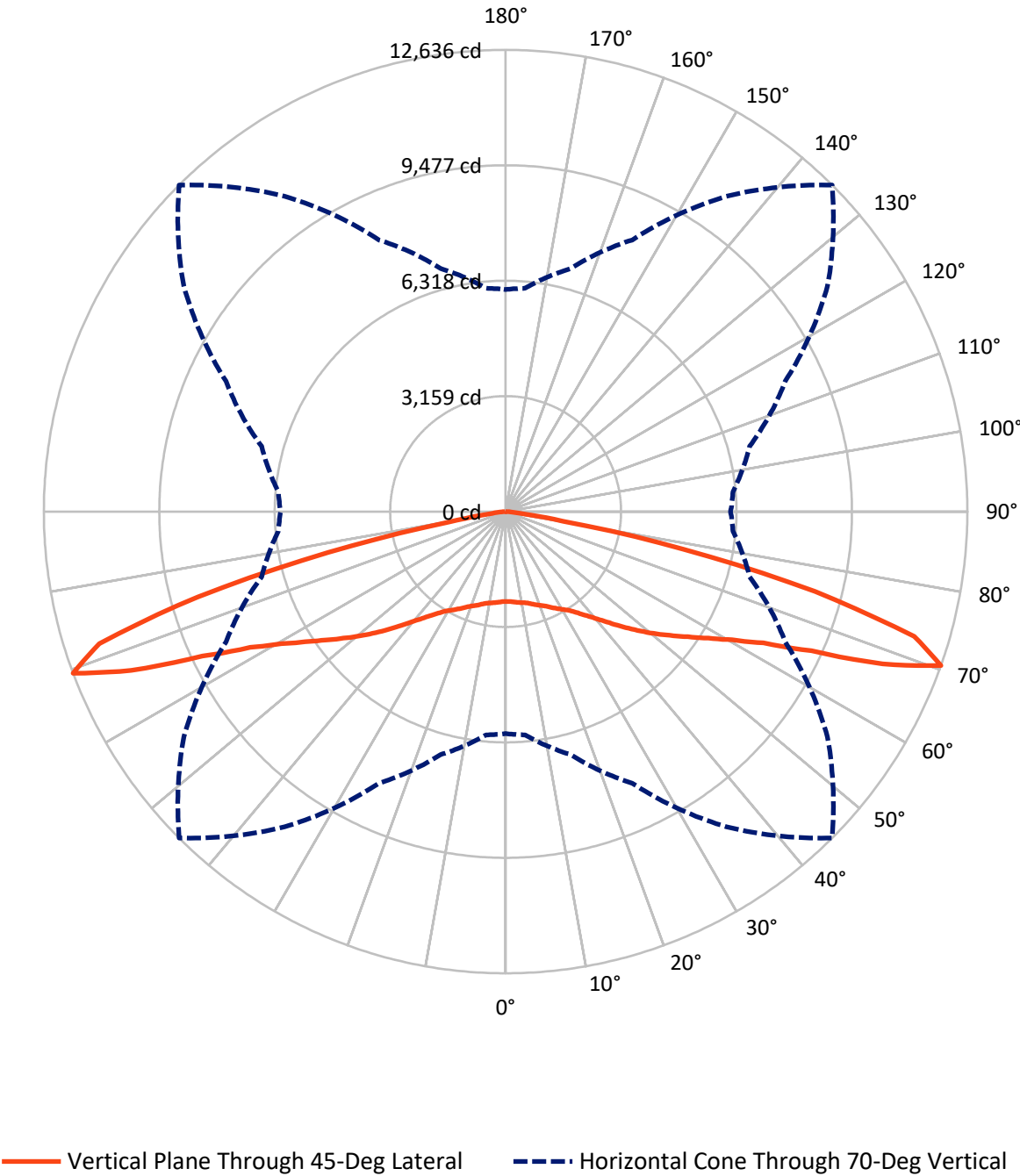
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type V - Short - N/A

REPORT NUMBER: P967774
CATALOG NUMBER: NAV-SB5A-750-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P967774

CATALOG NUMBER: NAV-SB5A-750-U-5MQ

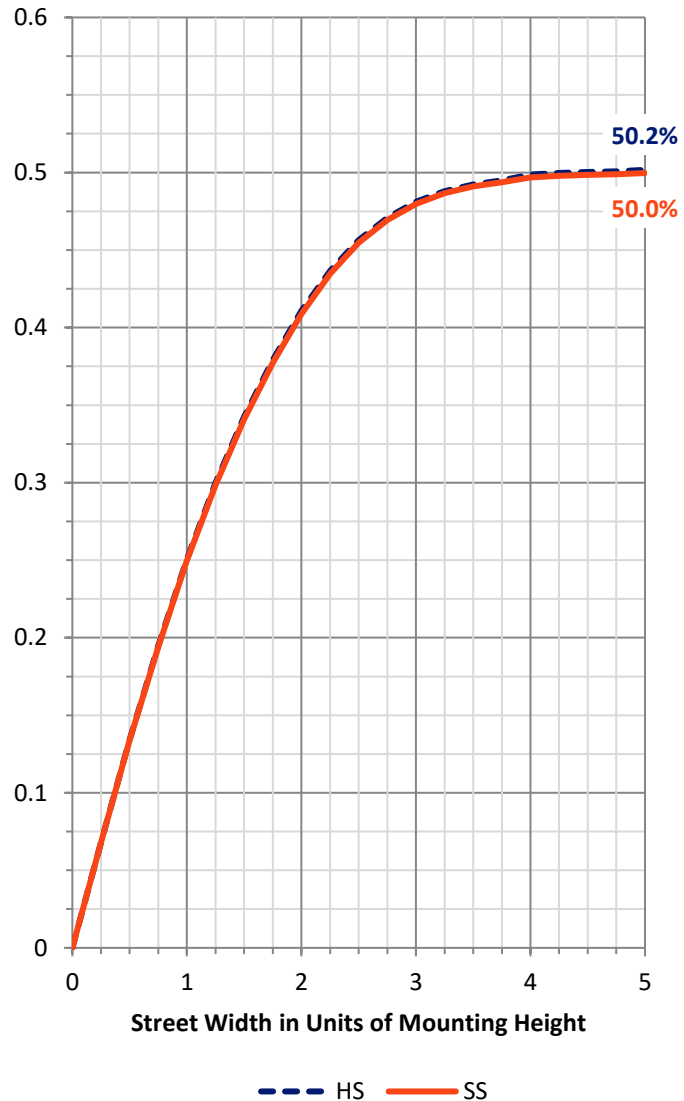
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12866.8	0.0	12866.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12866.8	0.0	12866.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	25733.7	0.0	25733.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.5	0.9
10°-20°	742.6	2.9
20°-30°	1327.1	5.2
30°-40°	2151.2	8.4
40°-50°	3504.0	13.6
50°-60°	5342.4	20.8
60°-70°	7947.7	30.9
70°-80°	4331.8	16.8
80°-90°	147.5	0.6
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°	25733.7	100.0
0°-180°	25733.7	100.0

Coefficient of Utilization



REPORT NUMBER: P967774

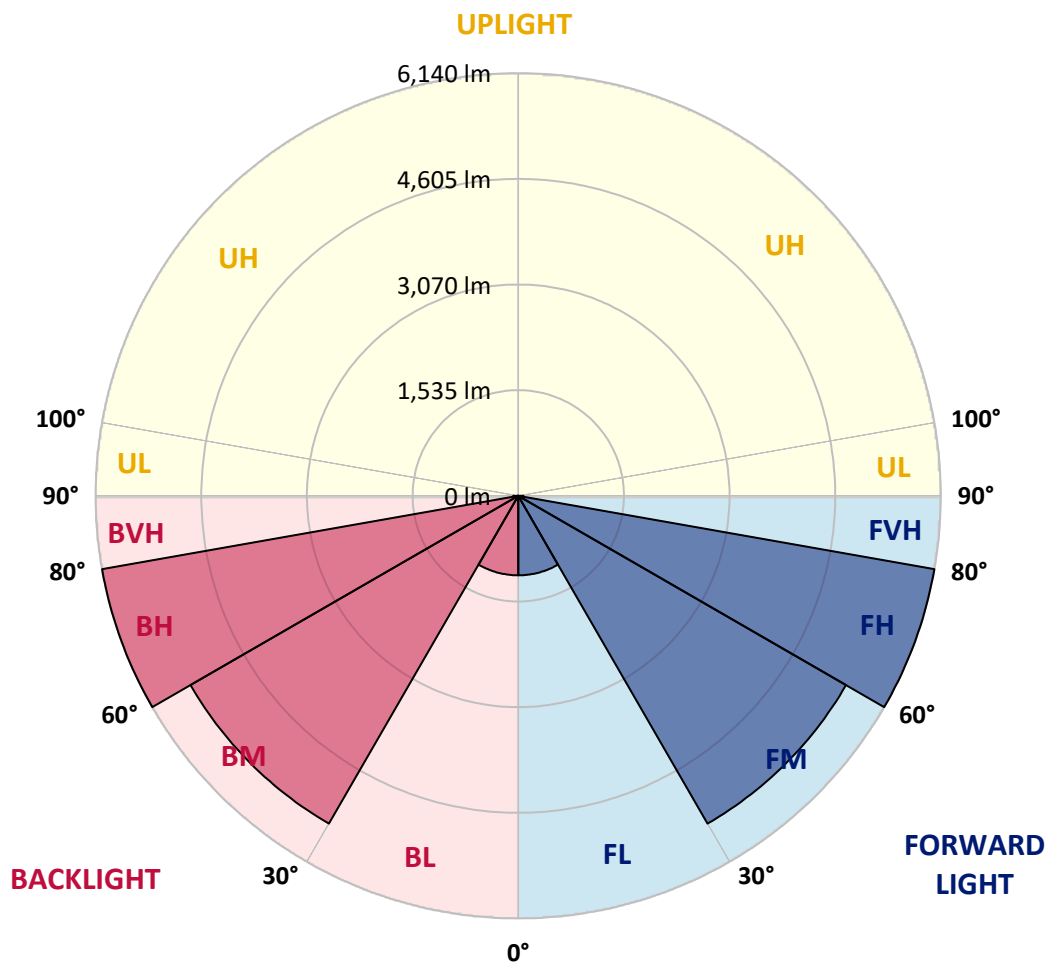
CATALOG NUMBER: NAV-SB5A-750-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1154.6	4.5			
FM	(30°-60°)	5498.8	21.4			
FH	(60°-80°)	6139.7	23.9			G3/7500
FVH	(80°-90°)	73.8	0.3			G1/100
BL	(0°-30°)	1154.6	4.5	B3/2500		
BM	(30°-60°)	5498.8	21.4	B4/8500		
BH	(60°-80°)	6139.7	23.9	B5		G3/7500
BVH	(80°-90°)	73.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



REPORT NUMBER: P967774

CATALOG NUMBER: NAV-SB5A-750-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0
2.5°	2476.6	2479.3	2474.0	2471.5	2468.9	2465.0	2466.4	2472.8	2477.9	2476.6	2477.9
5°	2497.3	2499.9	2496.0	2494.7	2489.5	2488.3	2488.3	2494.7	2498.6	2496.0	2497.3
7.5°	2520.6	2524.5	2518.0	2516.7	2514.1	2511.6	2510.2	2516.7	2520.6	2520.6	2520.6
10°	2542.5	2546.4	2541.3	2537.4	2534.8	2534.8	2532.2	2537.4	2543.8	2542.5	2542.5
12.5°	2565.8	2568.3	2563.2	2560.7	2560.7	2564.4	2560.7	2563.2	2568.3	2565.8	2564.4
15°	2594.2	2595.5	2594.2	2598.1	2604.5	2617.4	2605.9	2603.3	2605.9	2599.4	2599.4
17.5°	2633.0	2635.6	2640.7	2649.7	2658.8	2682.0	2661.4	2655.0	2655.0	2642.0	2642.0
20°	2680.8	2684.7	2692.4	2707.9	2719.5	2741.5	2720.9	2711.7	2707.9	2691.1	2691.1
22.5°	2731.1	2737.6	2749.3	2770.0	2790.6	2811.3	2790.6	2775.1	2763.5	2741.5	2740.2
25°	2789.3	2797.0	2815.2	2848.7	2877.2	2906.9	2882.3	2851.3	2828.1	2797.0	2795.8
27.5°	2871.9	2881.1	2903.0	2944.3	2980.5	3006.3	2983.1	2943.1	2910.7	2873.3	2871.9
30°	2988.3	2997.3	3023.1	3067.1	3091.6	3108.4	3092.9	3061.9	3023.1	2980.5	2980.5
32.5°	3138.1	3149.7	3178.2	3219.5	3224.6	3227.2	3222.1	3206.6	3178.2	3126.5	3127.8
35°	3328.1	3341.0	3373.3	3406.8	3401.7	3406.8	3399.1	3393.9	3373.3	3313.8	3313.8
37.5°	3560.5	3576.1	3609.6	3635.5	3622.6	3616.1	3617.4	3618.8	3607.1	3541.2	3541.2
40°	3830.6	3851.2	3875.8	3903.0	3881.0	3861.6	3874.5	3884.9	3874.5	3807.4	3807.4
42.5°	4108.4	4138.0	4164.0	4202.7	4184.6	4160.1	4178.1	4189.8	4167.8	4095.5	4100.6
45°	4417.1	4445.5	4479.1	4537.3	4524.3	4498.5	4524.3	4526.9	4489.5	4404.2	4413.2
47.5°	4736.2	4765.9	4816.4	4893.9	4888.7	4860.2	4893.9	4875.8	4828.0	4725.9	4719.4
50°	5038.6	5079.9	5157.4	5265.9	5276.3	5241.4	5286.6	5251.7	5171.6	5043.7	5041.2
52.5°	5322.8	5366.7	5489.5	5636.7	5674.2	5629.0	5689.7	5629.0	5508.9	5344.8	5329.3
55°	5621.2	5670.3	5816.3	6008.8	6083.8	6050.2	6107.0	6015.2	5844.8	5645.8	5618.6
57.5°	5972.7	6002.3	6176.8	6405.4	6532.0	6539.8	6565.6	6410.6	6203.9	5977.8	5946.7
60°	6353.8	6395.1	6585.0	6858.9	7059.2	7123.7	7096.6	6866.7	6626.3	6366.7	6325.4
62.5°	6842.1	6887.3	7114.7	7442.8	7759.4	7919.6	7813.7	7480.3	7183.2	6871.8	6817.6
65°	7246.4	7296.9	7707.7	8293.0	8869.1	9190.9	8924.7	8311.0	7776.2	7337.0	7264.6
67.5°	6953.2	7015.2	7659.9	8734.7	10167.6	11127.5	10216.7	8866.6	7818.8	7223.2	7134.1
70°	6077.2	6135.4	6887.3	8201.2	10533.2	12636.4	10752.8	8442.8	6911.9	6245.2	6156.0
72.5°	4034.7	4222.1	4983.0	6559.2	9405.3	11693.3	9498.4	6426.1	4622.5	4025.7	3895.2
75°	1338.4	1488.3	2007.7	3400.3	6299.4	8745.1	5997.2	3008.9	1590.4	1144.6	1082.6
77.5°	337.2	388.9	536.2	972.8	2512.8	4979.1	2262.2	794.6	432.8	302.3	270.0
80°	164.1	180.9	258.4	324.3	629.1	1582.6	590.4	304.9	204.1	157.6	144.7
82.5°	90.4	91.7	146.0	183.5	233.8	409.6	242.9	178.2	117.6	95.6	95.6
85°	55.6	54.2	77.5	98.2	98.2	146.0	116.2	98.2	67.1	59.4	62.0
87.5°	21.9	21.9	28.4	31.1	27.2	37.5	29.7	32.3	25.8	24.5	25.8
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)