

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: P965203

Luminaire Tested: **NAV-SB3D-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965203
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3D-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27526.4 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

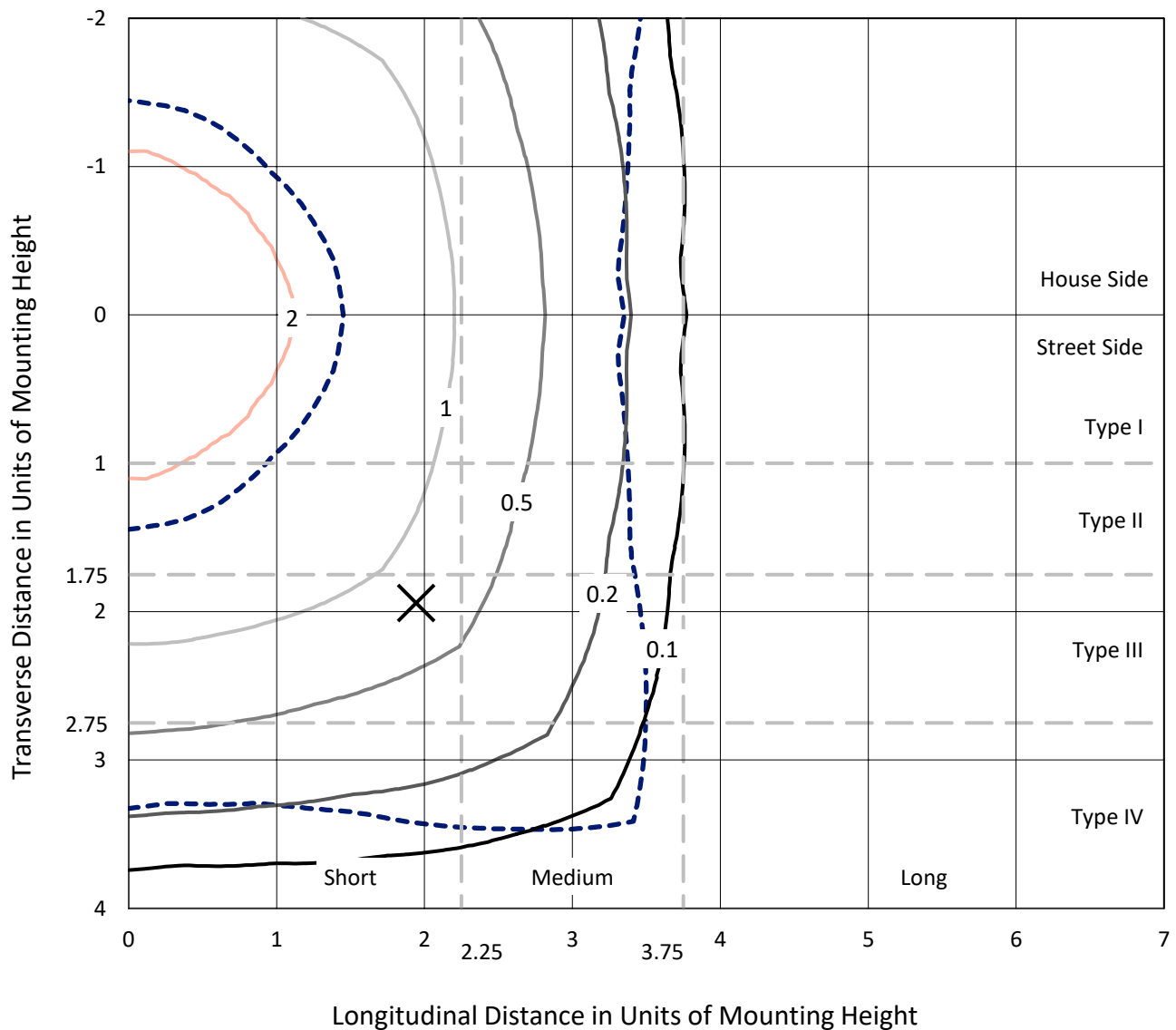
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

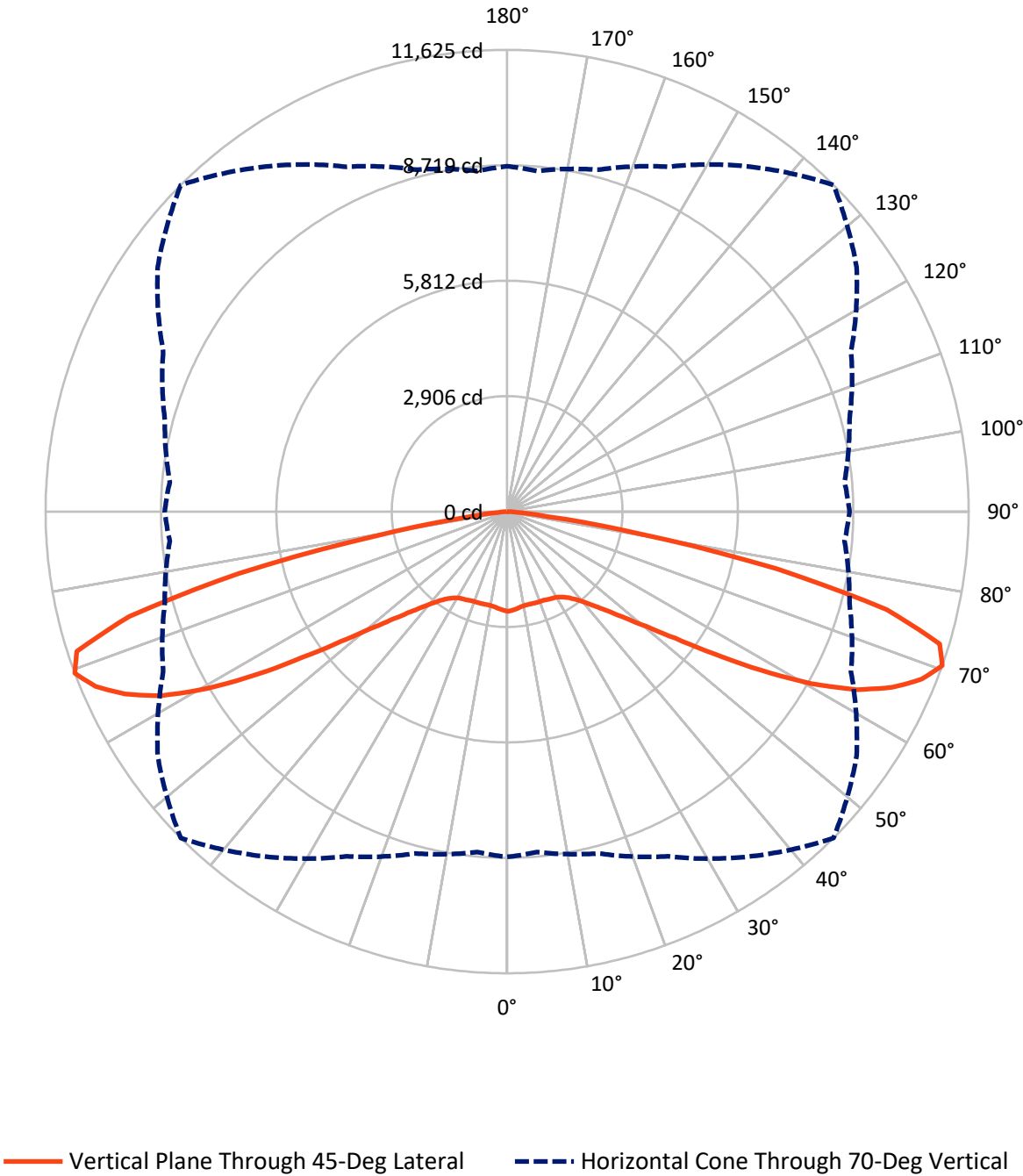
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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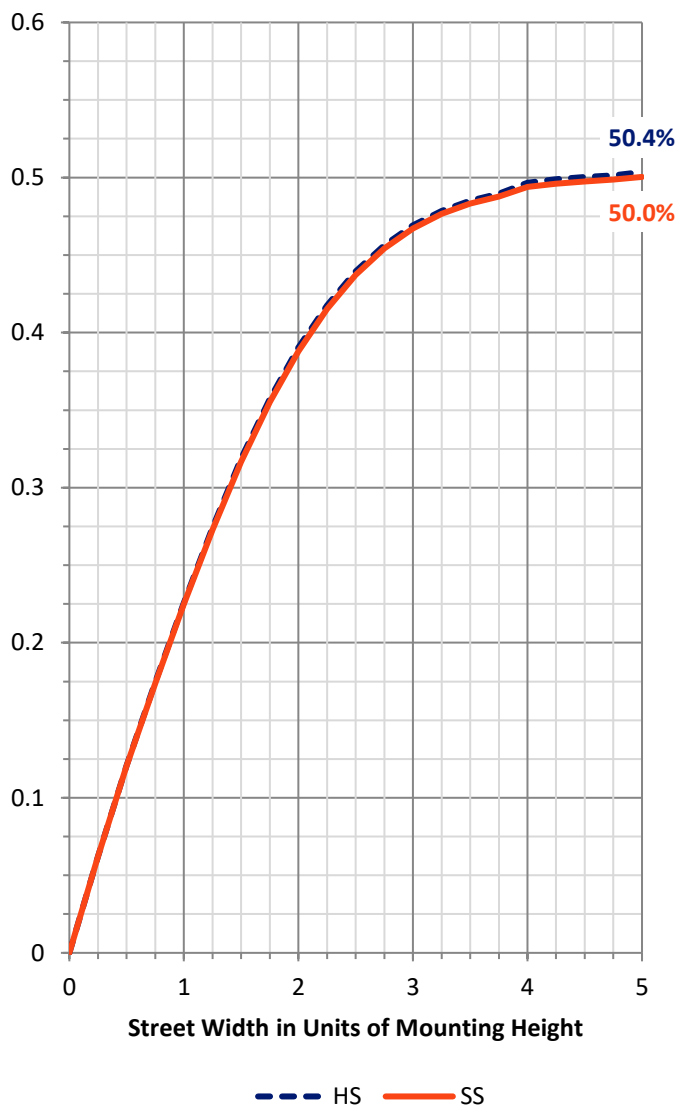
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13763.2	0.0	13763.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13763.2	0.0	13763.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	27526.4	0.0	27526.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.6	0.8
10°-20°	685.8	2.5
20°-30°	1141.3	4.1
30°-40°	1726.1	6.3
40°-50°	2868.3	10.4
50°-60°	5412.4	19.7
60°-70°	9139.0	33.2
70°-80°	6005.3	21.8
80°-90°	314.6	1.1
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°	27526.4	100.0
0°-180°	27526.4	100.0

Coefficient of Utilization



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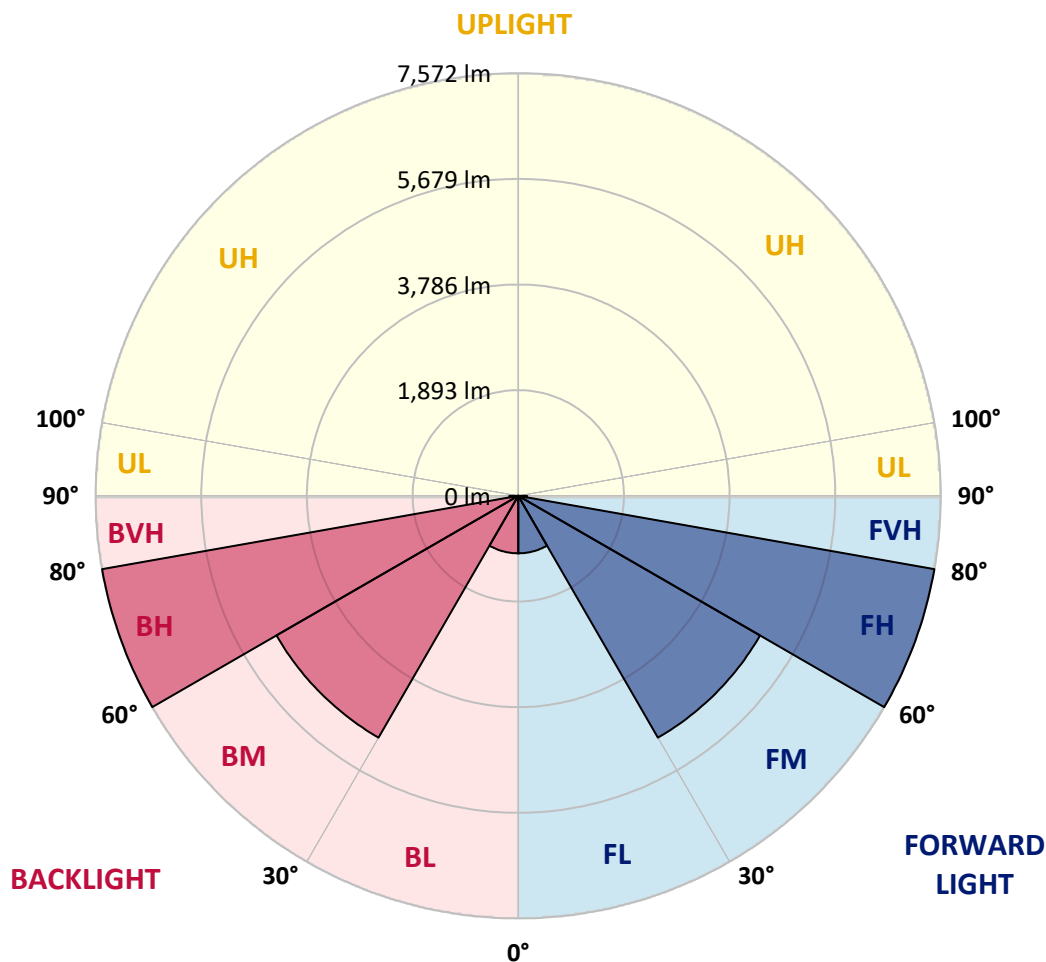
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1030.4	3.7			
FM	(30°-60°)	5003.4	18.2			
FH	(60°-80°)	7572.1	27.5			G4/12000
FVH	(80°-90°)	157.3	0.6			G2/225
BL	(0°-30°)	1030.4	3.7	B3/2500		
BM	(30°-60°)	5003.4	18.2	B4/8500		
BH	(60°-80°)	7572.1	27.5	B5		G4/12000
BVH	(80°-90°)	157.3	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2510.9	2510.9	2510.9	2510.9	2510.9	2510.9	2510.9	2510.9	2510.9	2510.9	2510.9
2.5°	2495.3	2502.3	2499.5	2493.8	2493.8	2489.5	2493.8	2496.7	2500.9	2503.8	2502.3
5°	2462.4	2468.0	2466.6	2462.4	2463.8	2459.5	2462.4	2466.6	2469.4	2470.9	2470.9
7.5°	2433.7	2439.4	2436.5	2429.5	2429.5	2425.1	2426.6	2430.8	2435.1	2436.5	2436.5
10°	2426.6	2432.2	2423.7	2412.2	2407.9	2402.2	2403.6	2407.9	2416.5	2420.8	2420.8
12.5°	2429.5	2433.7	2425.1	2407.9	2403.6	2397.9	2397.9	2402.2	2413.7	2419.4	2420.8
15°	2438.0	2442.3	2429.5	2410.8	2406.5	2402.2	2400.8	2406.5	2419.4	2429.5	2430.8
17.5°	2453.7	2458.1	2438.0	2412.2	2406.5	2407.9	2406.5	2410.8	2430.8	2449.4	2449.4
20°	2468.0	2470.9	2443.7	2412.2	2406.5	2407.9	2406.5	2415.1	2440.8	2466.6	2468.0
22.5°	2472.3	2475.2	2449.4	2422.3	2418.0	2419.4	2418.0	2426.6	2450.9	2476.6	2476.6
25°	2473.7	2478.0	2458.1	2436.5	2443.7	2446.6	2443.7	2445.1	2463.8	2486.6	2485.2
27.5°	2495.3	2500.9	2482.3	2463.8	2468.0	2466.6	2470.9	2475.2	2489.5	2512.4	2506.6
30°	2539.5	2543.8	2528.2	2509.5	2506.6	2496.7	2509.5	2523.9	2539.5	2559.6	2555.3
32.5°	2612.5	2621.1	2601.1	2581.1	2568.2	2562.5	2572.4	2596.8	2618.3	2639.7	2631.2
35°	2734.2	2739.9	2721.3	2684.1	2661.2	2661.2	2669.8	2701.3	2735.6	2762.8	2752.7
37.5°	2905.9	2913.0	2880.0	2835.8	2801.4	2801.4	2812.8	2845.7	2897.3	2935.9	2921.6
40°	3114.8	3124.7	3083.3	3037.5	3004.6	2998.8	3013.2	3050.4	3099.0	3147.7	3131.9
42.5°	3366.5	3378.0	3323.7	3283.6	3257.9	3257.9	3264.9	3299.3	3343.7	3403.7	3399.4
45°	3688.5	3708.4	3634.1	3594.1	3569.7	3575.4	3579.7	3609.7	3649.8	3718.5	3715.6
47.5°	4071.9	4091.9	4013.3	3971.8	3967.5	3994.6	3977.5	3998.9	4020.4	4099.1	4076.2
50°	4506.8	4541.2	4486.8	4484.0	4492.6	4542.6	4502.5	4514.0	4489.7	4539.7	4509.7
52.5°	5039.1	5089.1	5079.2	5096.3	5192.1	5295.2	5203.6	5163.5	5072.0	5087.7	5034.8
55°	5684.3	5760.2	5774.5	5877.6	6095.0	6305.3	6110.7	5949.0	5754.5	5718.7	5662.9
57.5°	6418.3	6478.4	6547.1	6757.4	7163.7	7537.1	7163.7	6806.1	6499.8	6427.0	6375.4
60°	7208.1	7282.5	7348.3	7658.8	8262.5	8787.6	8251.1	7683.1	7278.2	7179.5	7093.6
62.5°	8056.5	8152.4	8198.2	8543.0	9246.9	9873.6	9256.9	8568.7	8119.4	8013.7	7927.8
65°	8870.7	8949.3	9000.8	9368.5	10041.0	10669.1	10086.7	9408.6	8946.4	8807.7	8739.0
67.5°	9249.8	9292.6	9418.6	9835.0	10544.6	11261.4	10664.8	9879.3	9362.8	9119.5	9122.4
70°	8694.7	8607.3	8910.7	9577.4	10604.6	11624.8	10742.0	9557.4	8925.0	8530.2	8624.6
72.5°	6718.8	6568.5	7095.0	8235.4	9917.9	11393.1	9986.6	8299.7	7422.7	6621.5	6820.4
75°	3655.6	3485.3	4212.1	5654.3	7909.2	9875.1	8090.8	5816.0	4690.0	3628.4	3864.5
77.5°	1031.6	967.2	1553.8	2735.6	4757.2	6933.4	4940.4	2795.7	1842.8	1093.1	1214.7
80°	316.2	306.2	414.9	824.1	2020.2	3320.8	1941.6	834.1	528.0	333.3	352.0
82.5°	187.5	171.7	206.0	300.4	515.1	1043.0	500.7	313.3	251.8	168.8	183.2
85°	107.3	100.1	121.6	146.0	173.1	221.8	144.5	148.8	134.5	90.1	94.4
87.5°	44.4	40.1	47.3	45.8	40.1	51.6	38.6	45.8	54.3	35.8	32.9
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)