

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: P968396

Luminaire Tested: **NAV-SB5B-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968396
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-SB5B-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26499.3 lumens
Efficiency: N/A
Efficacy: 145.0 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): 182.7
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



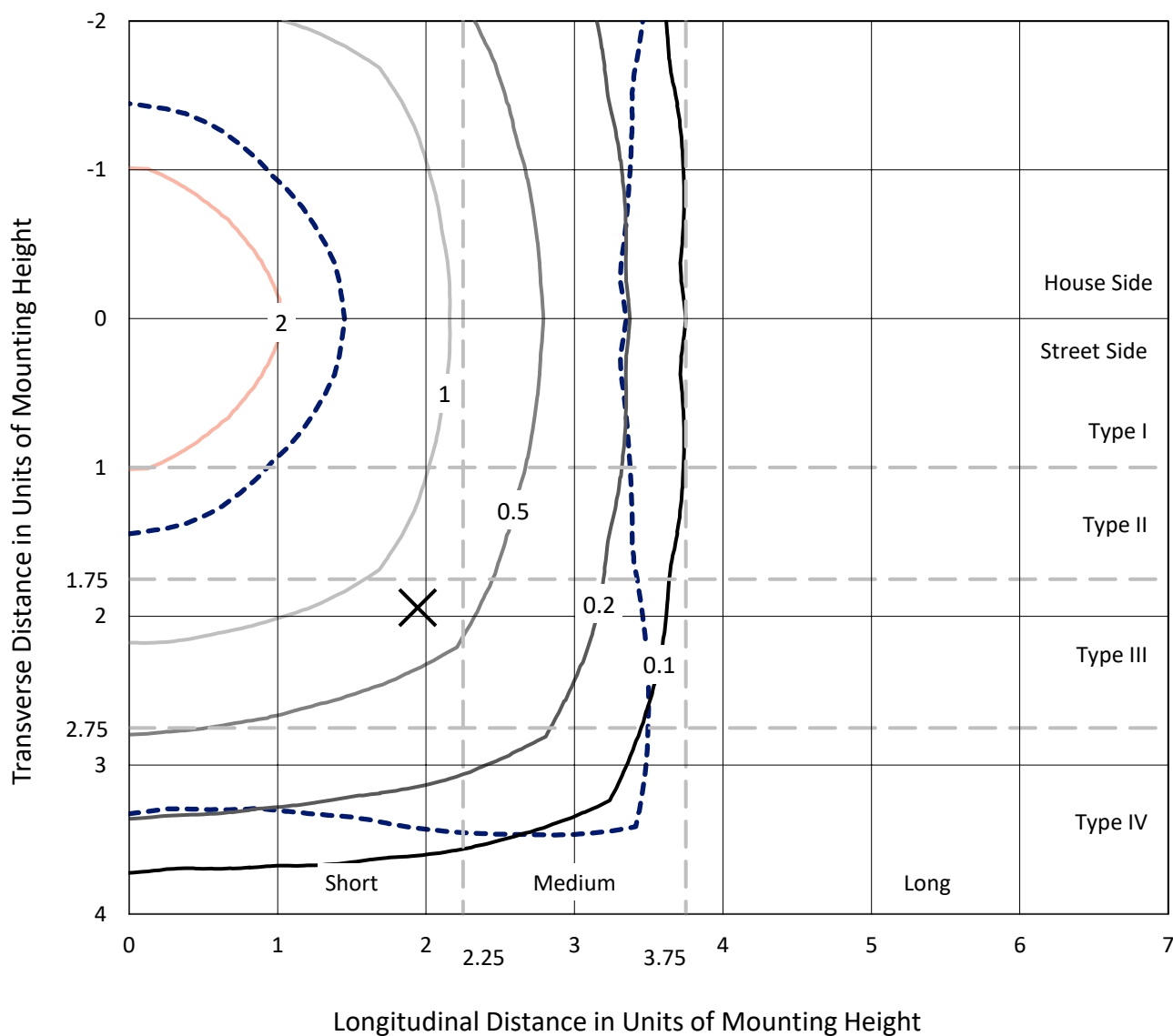
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

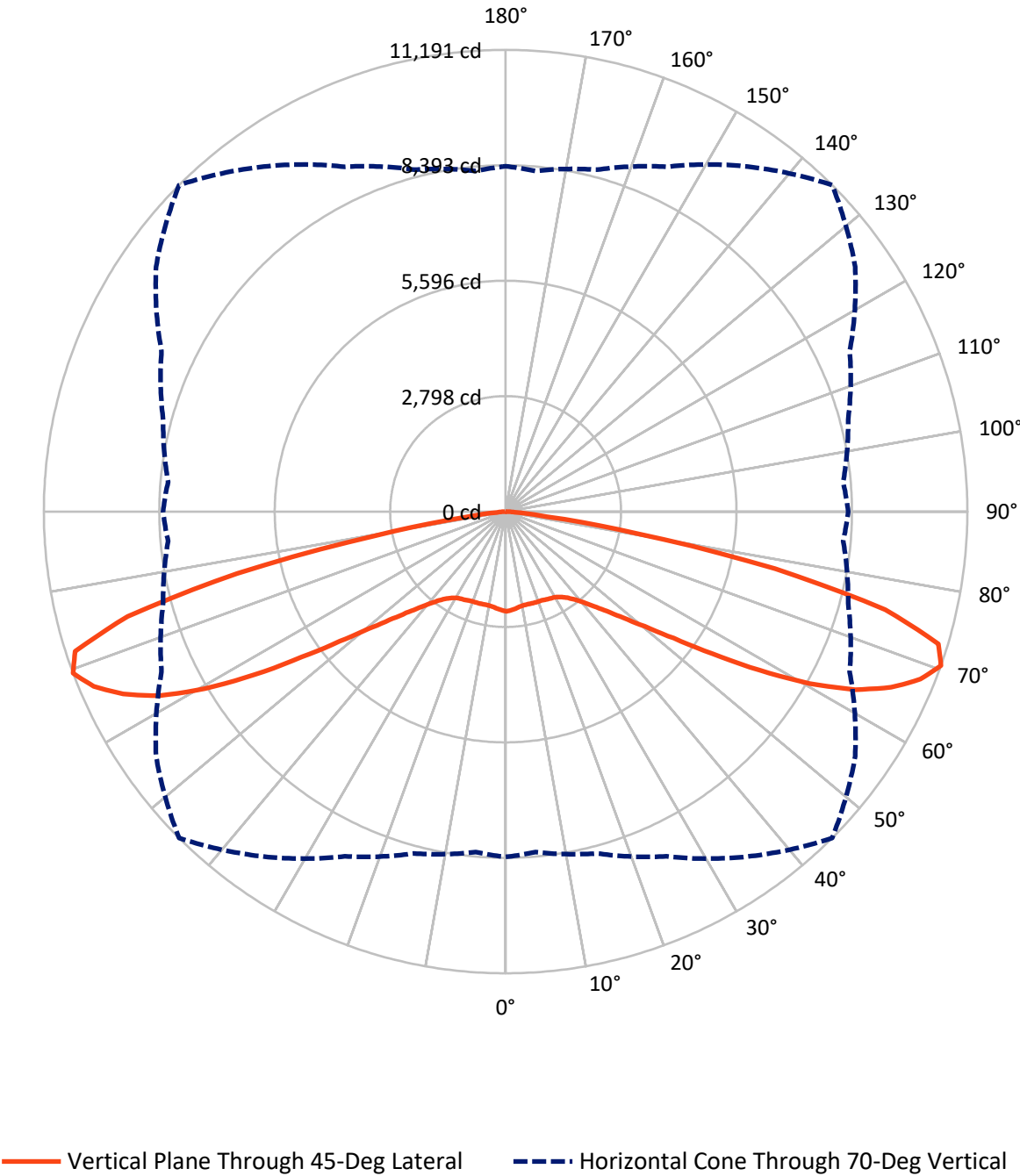


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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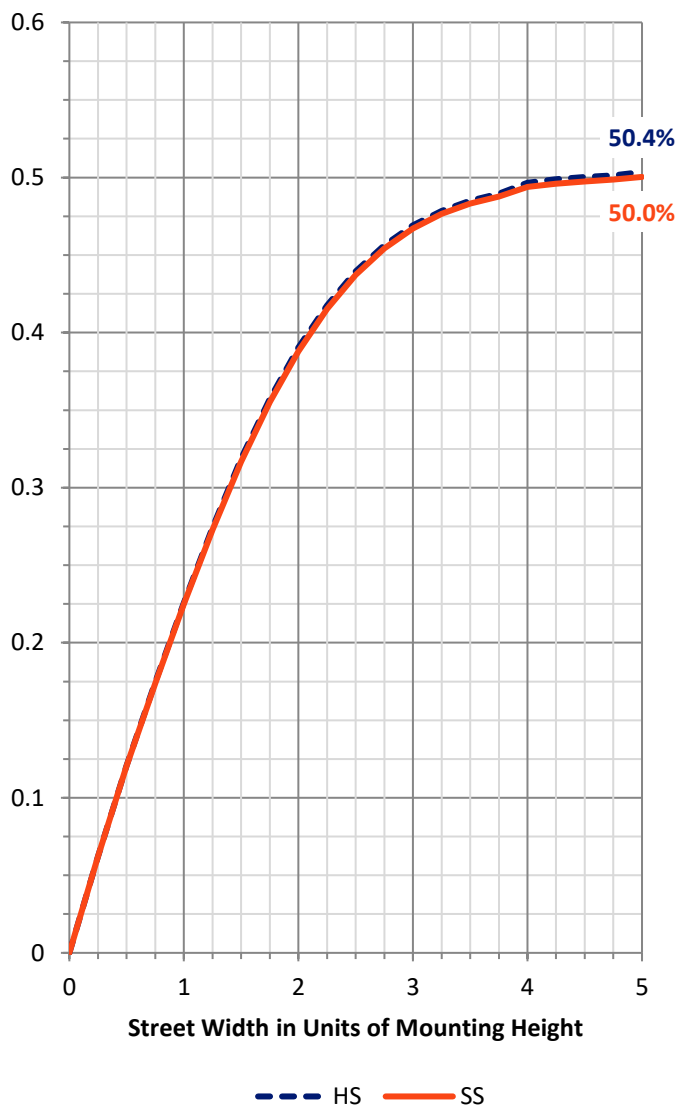
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13249.7	0.0	13249.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13249.7	0.0	13249.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	26499.3	0.0	26499.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.9	0.8
10°-20°	660.3	2.5
20°-30°	1098.8	4.1
30°-40°	1661.7	6.3
40°-50°	2761.3	10.4
50°-60°	5210.4	19.7
60°-70°	8798.0	33.2
70°-80°	5781.2	21.8
80°-90°	302.9	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°	26499.3	100.0
0°-180°	26499.3	100.0

Coefficient of Utilization



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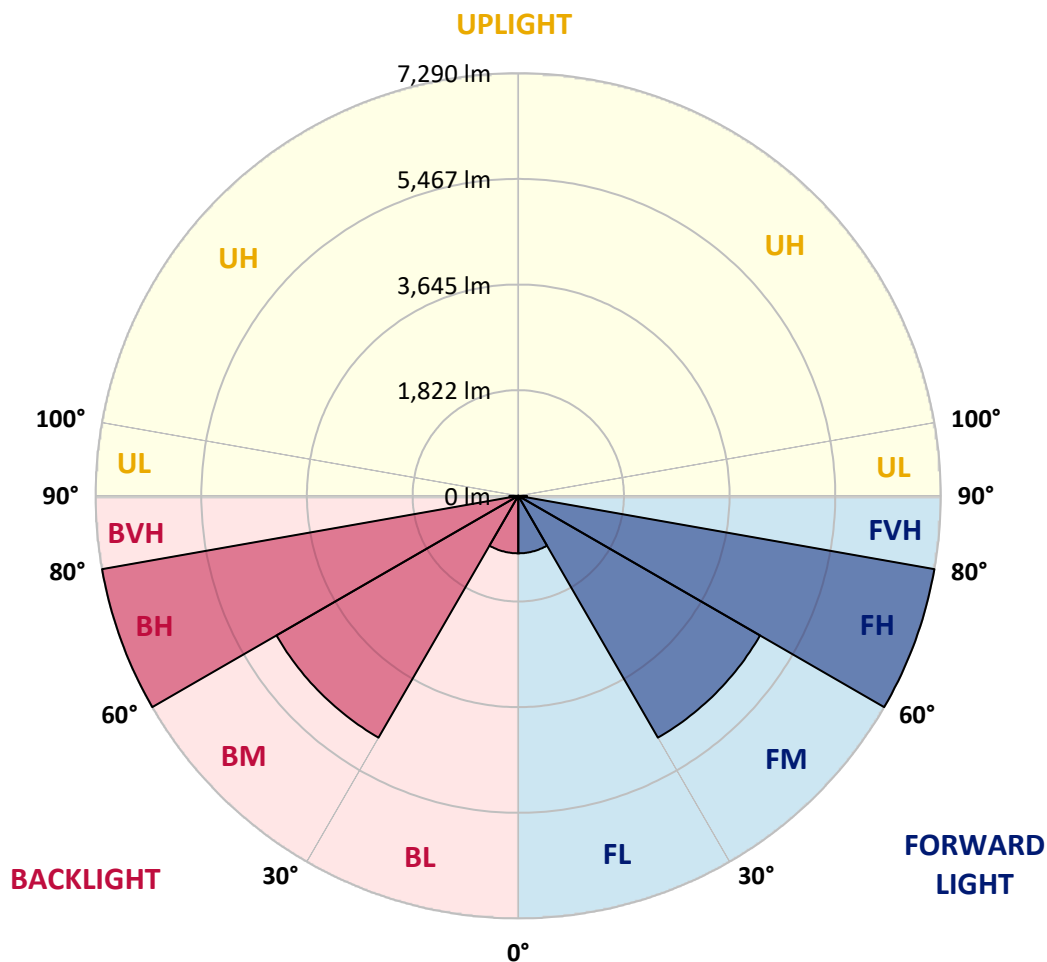
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	991.9	3.7			
FM	(30°-60°)	4816.7	18.2			
FH	(60°-80°)	7289.6	27.5			G3/7500
FVH	(80°-90°)	151.4	0.6			G2/225
BL	(0°-30°)	991.9	3.7	B2/1000		
BM	(30°-60°)	4816.7	18.2	B3/5000		
BH	(60°-80°)	7289.6	27.5	B5		G3/7500
BVH	(80°-90°)	151.4	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-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2417.3	2417.3	2417.3	2417.3	2417.3	2417.3	2417.3	2417.3	2417.3	2417.3	2417.3
2.5°	2402.1	2409.1	2406.3	2400.8	2400.8	2396.7	2400.8	2403.5	2407.6	2410.4	2409.1
5°	2370.4	2376.0	2374.6	2370.4	2371.8	2367.6	2370.4	2374.6	2377.3	2378.7	2378.7
7.5°	2342.9	2348.4	2345.6	2338.7	2338.7	2334.6	2336.0	2340.2	2344.3	2345.6	2345.6
10°	2336.0	2341.5	2333.2	2322.2	2318.1	2312.6	2313.9	2318.1	2326.3	2330.5	2330.5
12.5°	2338.7	2342.9	2334.6	2318.1	2313.9	2308.5	2308.5	2312.6	2323.6	2329.1	2330.5
15°	2347.0	2351.1	2338.7	2320.9	2316.7	2312.6	2311.2	2316.7	2329.1	2338.7	2340.2
17.5°	2362.2	2366.3	2347.0	2322.2	2316.7	2318.1	2316.7	2320.9	2340.2	2358.0	2358.0
20°	2376.0	2378.7	2352.6	2322.2	2316.7	2318.1	2316.7	2325.0	2349.8	2374.6	2376.0
22.5°	2380.0	2382.8	2358.0	2331.9	2327.8	2329.1	2327.8	2336.0	2359.4	2384.3	2384.3
25°	2381.5	2385.6	2366.3	2345.6	2352.6	2355.2	2352.6	2353.9	2371.8	2393.9	2392.5
27.5°	2402.1	2407.6	2389.7	2371.8	2376.0	2374.6	2378.7	2382.8	2396.7	2418.7	2413.2
30°	2444.8	2448.9	2433.8	2415.9	2413.2	2403.5	2415.9	2429.7	2444.8	2464.1	2460.0
32.5°	2515.0	2523.3	2504.1	2484.8	2472.4	2466.9	2476.5	2499.9	2520.6	2541.3	2533.0
35°	2632.1	2637.6	2619.7	2583.9	2561.9	2561.9	2570.2	2600.4	2633.5	2659.7	2650.0
37.5°	2797.4	2804.3	2772.6	2729.9	2696.9	2696.9	2707.8	2739.6	2789.1	2826.3	2812.6
40°	2998.5	3008.2	2968.2	2924.1	2892.4	2886.9	2900.7	2936.5	2983.4	3030.2	3015.0
42.5°	3240.9	3251.9	3199.6	3161.0	3136.3	3136.3	3143.2	3176.2	3218.9	3276.7	3272.6
45°	3550.8	3570.1	3498.5	3459.9	3436.5	3442.1	3446.2	3475.1	3513.7	3579.8	3577.0
47.5°	3920.0	3939.3	3863.5	3823.6	3819.5	3845.6	3829.1	3849.7	3870.4	3946.1	3924.1
50°	4338.7	4371.7	4319.5	4316.7	4324.9	4373.2	4334.5	4345.6	4322.1	4370.4	4341.5
52.5°	4851.1	4899.3	4889.7	4906.2	4998.4	5097.6	5009.5	4970.9	4882.8	4897.9	4846.9
55°	5472.3	5545.2	5559.1	5658.2	5867.6	6070.0	5882.7	5727.1	5539.7	5505.3	5451.6
57.5°	6178.8	6236.7	6302.8	6505.3	6896.5	7256.0	6896.5	6552.1	6257.3	6187.1	6137.5
60°	6939.1	7010.8	7074.1	7373.0	7954.3	8459.7	7943.2	7396.4	7006.7	6911.6	6829.0
62.5°	7756.0	7848.2	7892.3	8224.2	8901.9	9505.1	8911.6	8249.0	7816.5	7714.6	7631.9
65°	8539.7	8615.4	8664.9	9019.0	9666.4	10271.0	9710.4	9057.5	8612.7	8479.0	8412.9
67.5°	8904.7	8946.0	9067.2	9468.0	10151.2	10841.2	10266.9	9510.7	9013.4	8779.3	8782.1
70°	8370.3	8286.2	8578.2	9220.1	10209.0	11191.1	10341.2	9200.8	8592.0	8211.8	8302.7
72.5°	6468.1	6323.4	6830.3	7928.1	9547.9	10967.9	9614.0	7990.1	7145.8	6374.5	6565.8
75°	3519.1	3355.2	4055.0	5443.4	7614.1	9506.6	7789.0	5599.0	4515.0	3493.0	3720.2
77.5°	993.1	931.1	1495.8	2633.5	4579.7	6674.7	4756.0	2691.3	1774.1	1052.3	1169.4
80°	304.4	294.8	399.4	793.3	1944.8	3196.9	1869.1	803.0	508.3	320.9	338.9
82.5°	180.4	165.3	198.3	289.3	495.9	1004.1	482.1	301.7	242.4	162.6	176.3
85°	103.3	96.5	117.1	140.5	166.7	213.5	139.1	143.3	129.5	86.8	90.9
87.5°	42.7	38.5	45.4	44.1	38.5	49.6	37.2	44.1	52.4	34.4	31.7
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)