

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: P967712

Luminaire Tested: **NAV-SB5A-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967712
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-735-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24323.2 lumens
Efficiency: N/A
Efficacy: 171.7 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



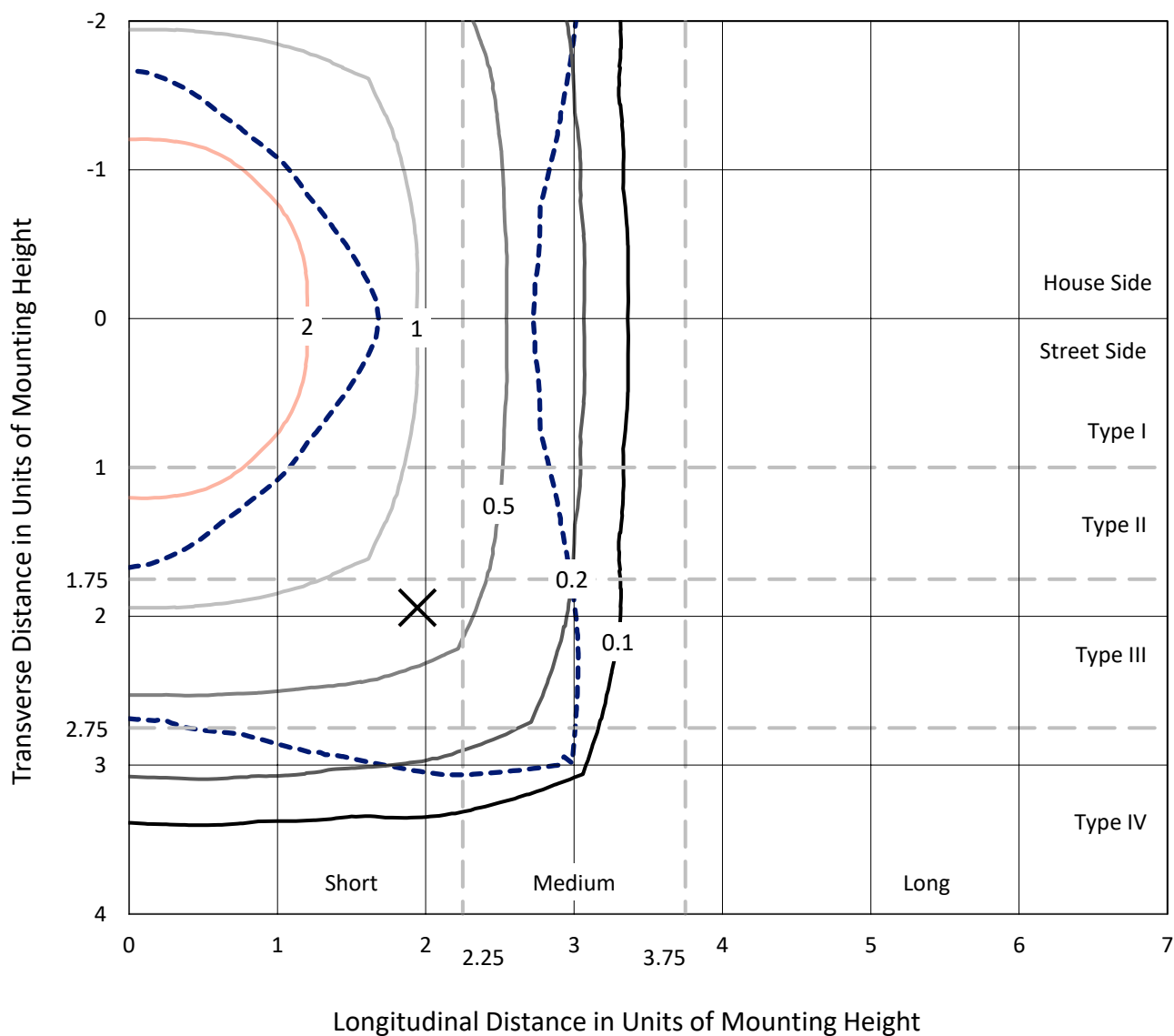
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

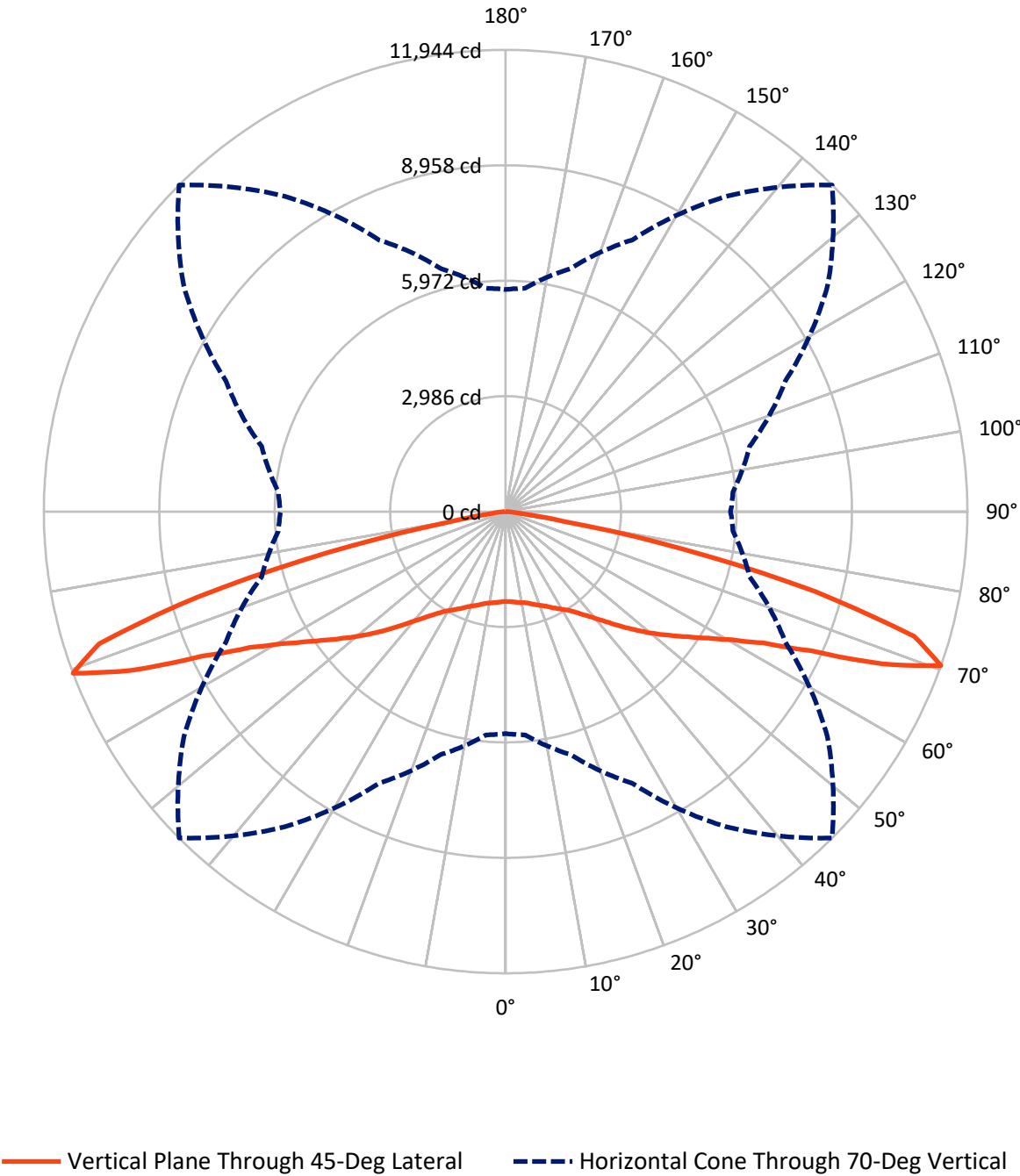


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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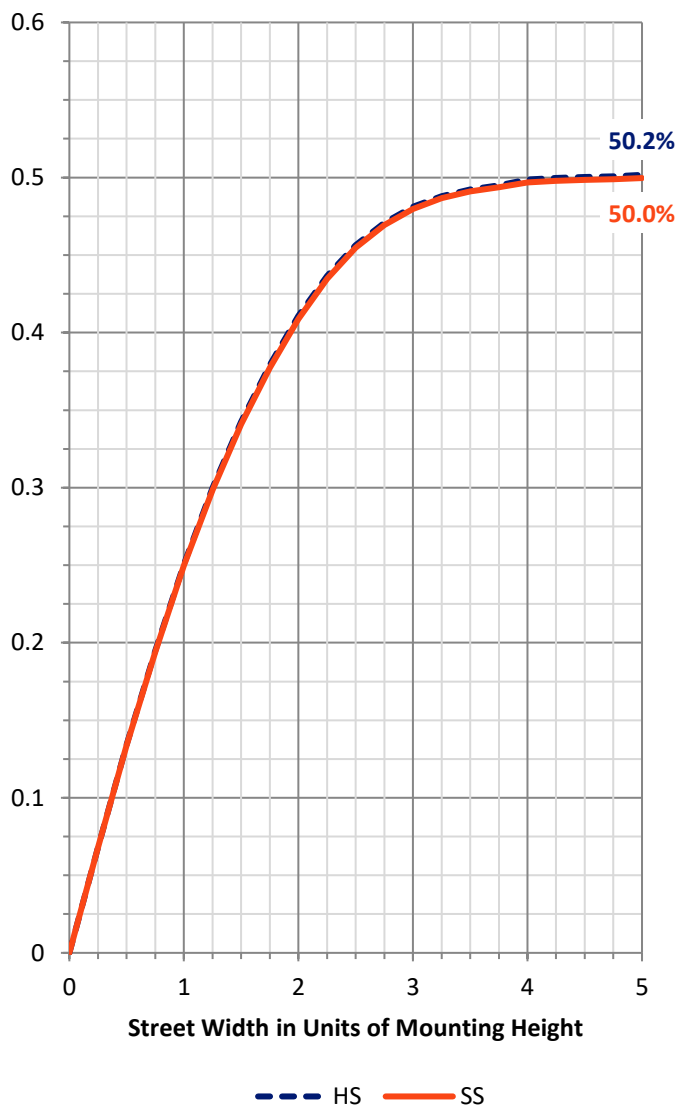
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12161.6	0.0	12161.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12161.6	0.0	12161.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	24323.2	0.0	24323.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.3	0.9
10°-20°	701.9	2.9
20°-30°	1254.4	5.2
30°-40°	2033.3	8.4
40°-50°	3311.9	13.6
50°-60°	5049.5	20.8
60°-70°	7512.1	30.9
70°-80°	4094.3	16.8
80°-90°	139.4	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°	24323.2	100.0
0°-180°	24323.2	100.0

Coefficient of Utilization



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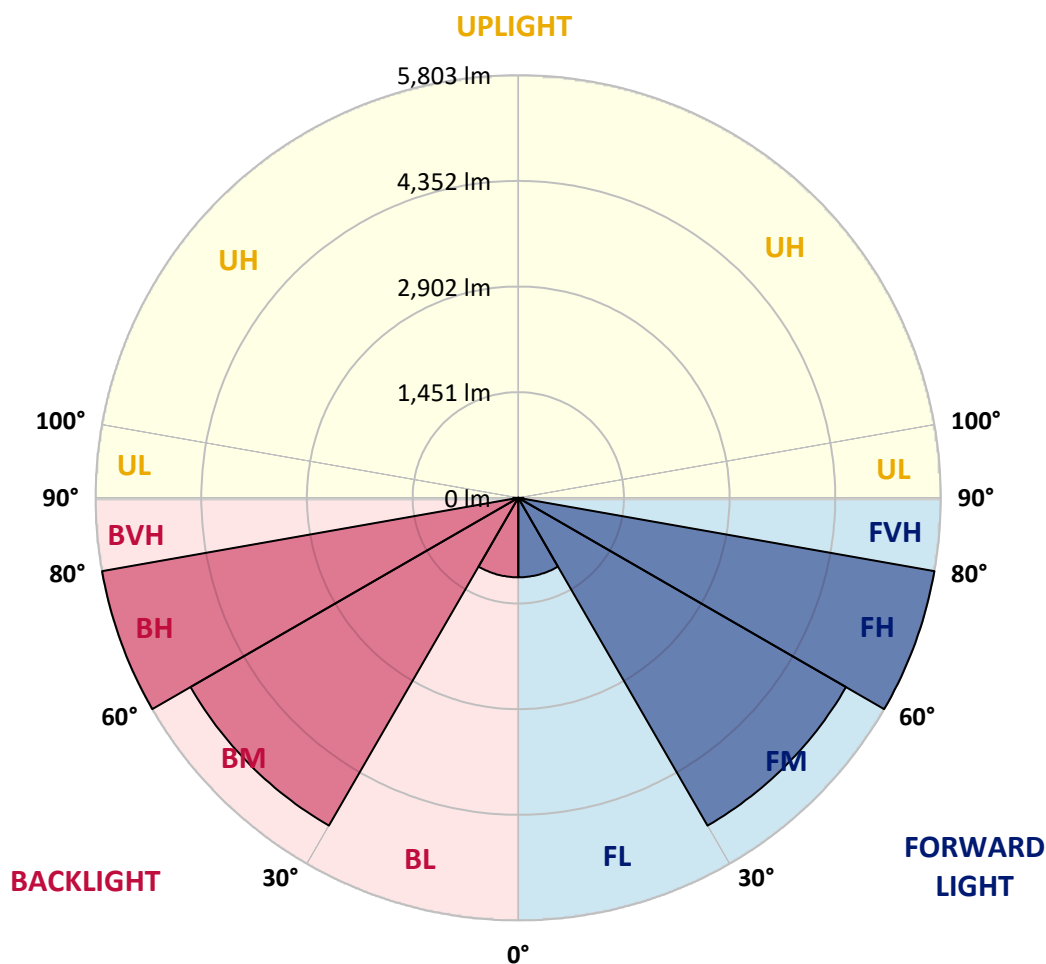
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1091.3	4.5			
FM	(30°-60°)	5197.4	21.4			
FH	(60°-80°)	5803.2	23.9			G3/7500
FVH	(80°-90°)	69.7	0.3			G1/100
BL	(0°-30°)	1091.3	4.5	B3/2500		
BM	(30°-60°)	5197.4	21.4	B4/8500		
BH	(60°-80°)	5803.2	23.9	B5		G3/7500
BVH	(80°-90°)	69.7	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2329.9	2329.9	2329.9	2329.9	2329.9	2329.9	2329.9	2329.9	2329.9	2329.9	2329.9
2.5°	2340.9	2343.4	2338.4	2336.0	2333.6	2329.9	2331.2	2337.2	2342.1	2340.9	2342.1
5°	2360.5	2362.9	2359.2	2358.0	2353.1	2351.9	2351.9	2358.0	2361.7	2359.2	2360.5
7.5°	2382.4	2386.1	2379.9	2378.7	2376.4	2373.9	2372.7	2378.7	2382.4	2382.4	2382.4
10°	2403.2	2406.8	2402.0	2398.3	2395.8	2395.8	2393.4	2398.3	2404.4	2403.2	2403.2
12.5°	2425.1	2427.6	2422.7	2420.2	2420.2	2423.9	2420.2	2422.7	2427.6	2425.1	2423.9
15°	2452.0	2453.2	2452.0	2455.7	2461.8	2474.0	2463.0	2460.6	2463.0	2456.9	2456.9
17.5°	2488.7	2491.1	2496.0	2504.6	2513.1	2535.0	2515.6	2509.4	2509.4	2497.2	2497.2
20°	2533.8	2537.5	2544.9	2559.5	2570.5	2591.2	2571.7	2563.1	2559.5	2543.6	2543.6
22.5°	2581.5	2587.6	2598.6	2618.1	2637.6	2657.2	2637.6	2623.0	2612.0	2591.2	2590.0
25°	2636.4	2643.8	2660.8	2692.6	2719.4	2747.5	2724.3	2695.0	2673.1	2643.8	2642.6
27.5°	2714.6	2723.1	2743.9	2783.0	2817.1	2841.6	2819.6	2781.7	2751.2	2715.8	2714.6
30°	2824.5	2833.0	2857.4	2899.0	2922.2	2938.1	2923.4	2894.1	2857.4	2817.1	2817.1
32.5°	2966.1	2977.1	3004.0	3043.0	3047.9	3050.4	3045.5	3030.8	3004.0	2955.2	2956.3
35°	3145.6	3157.8	3188.4	3220.1	3215.2	3220.1	3212.8	3207.9	3188.4	3132.2	3132.2
37.5°	3365.4	3380.0	3411.8	3436.2	3424.0	3418.0	3419.2	3420.4	3409.4	3347.1	3347.1
40°	3620.6	3640.2	3663.4	3689.1	3668.3	3649.9	3662.1	3672.0	3662.1	3598.7	3598.7
42.5°	3883.2	3911.3	3935.7	3972.3	3955.3	3932.0	3949.1	3960.1	3939.4	3871.0	3875.8
45°	4175.0	4201.9	4233.7	4288.6	4276.4	4252.0	4276.4	4278.9	4243.4	4162.8	4171.3
47.5°	4476.7	4504.8	4552.3	4625.6	4620.8	4593.8	4625.6	4608.5	4563.4	4466.8	4460.8
50°	4762.4	4801.5	4874.8	4977.3	4987.1	4954.1	4996.9	4963.9	4888.2	4767.3	4764.8
52.5°	5031.0	5072.6	5188.5	5327.7	5363.2	5320.5	5377.9	5320.5	5206.9	5051.8	5037.2
55°	5313.1	5359.5	5497.5	5679.5	5750.2	5718.6	5772.3	5685.6	5524.3	5336.4	5310.7
57.5°	5645.3	5673.4	5838.2	6054.4	6174.0	6181.4	6205.8	6059.3	5863.8	5650.2	5620.9
60°	6005.5	6044.6	6224.1	6483.0	6672.2	6733.3	6707.7	6490.3	6263.2	6017.8	5978.6
62.5°	6467.1	6509.9	6724.7	7034.9	7334.1	7485.6	7385.4	7070.3	6789.5	6495.2	6443.9
65°	6849.4	6896.9	7285.3	7838.5	8383.1	8687.1	8435.5	7855.5	7350.0	6934.8	6866.4
67.5°	6572.1	6630.7	7240.1	8256.1	9610.3	10517.6	9656.7	8380.6	7390.2	6827.3	6743.1
70°	5744.2	5799.1	6509.9	7751.8	9955.8	11943.9	10163.5	7980.0	6533.0	5903.0	5818.7
72.5°	3813.6	3990.6	4709.9	6199.7	8889.8	11052.5	8977.8	6073.9	4369.2	3805.0	3681.7
75°	1265.1	1406.7	1897.7	3214.0	5954.2	8265.8	5668.5	2844.0	1503.2	1081.9	1023.3
77.5°	318.7	367.6	506.8	919.5	2375.1	4706.2	2138.1	751.0	409.1	285.8	255.2
80°	155.1	171.0	244.3	306.5	594.7	1495.9	558.0	288.2	192.9	148.9	136.7
82.5°	85.5	86.7	138.0	173.4	221.0	387.1	229.6	168.5	111.1	90.4	90.4
85°	52.5	51.2	73.3	92.8	92.8	138.0	109.9	92.8	63.4	56.2	58.6
87.5°	20.8	20.8	26.9	29.3	25.6	35.4	28.1	30.5	24.4	23.2	24.4
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)