

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: P966844

Luminaire Tested: **NAV-SB4C-835-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966844
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-SB4C-835-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29883.8 lumens
Efficiency: N/A
Efficacy: 148.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 200.7
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



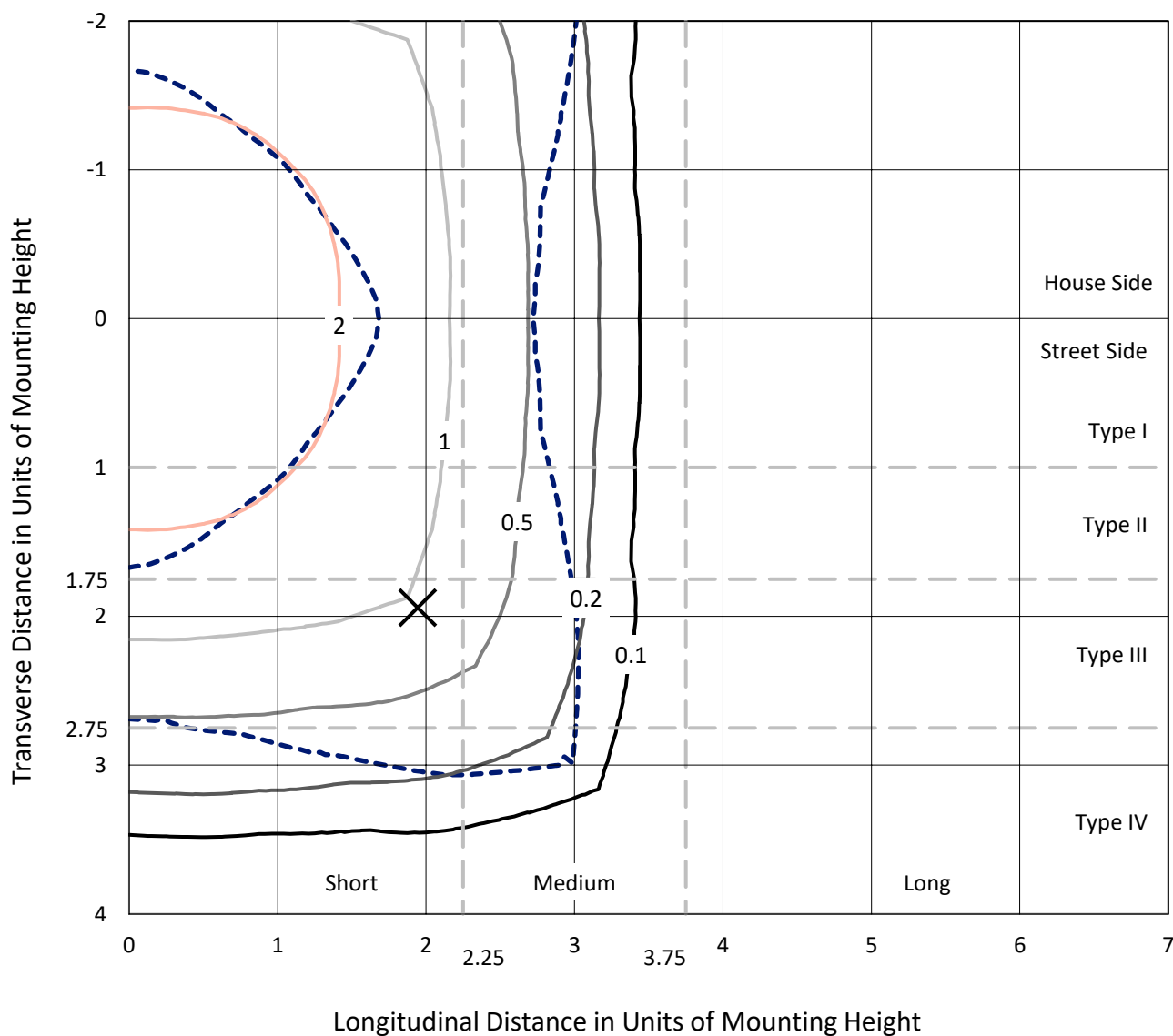
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

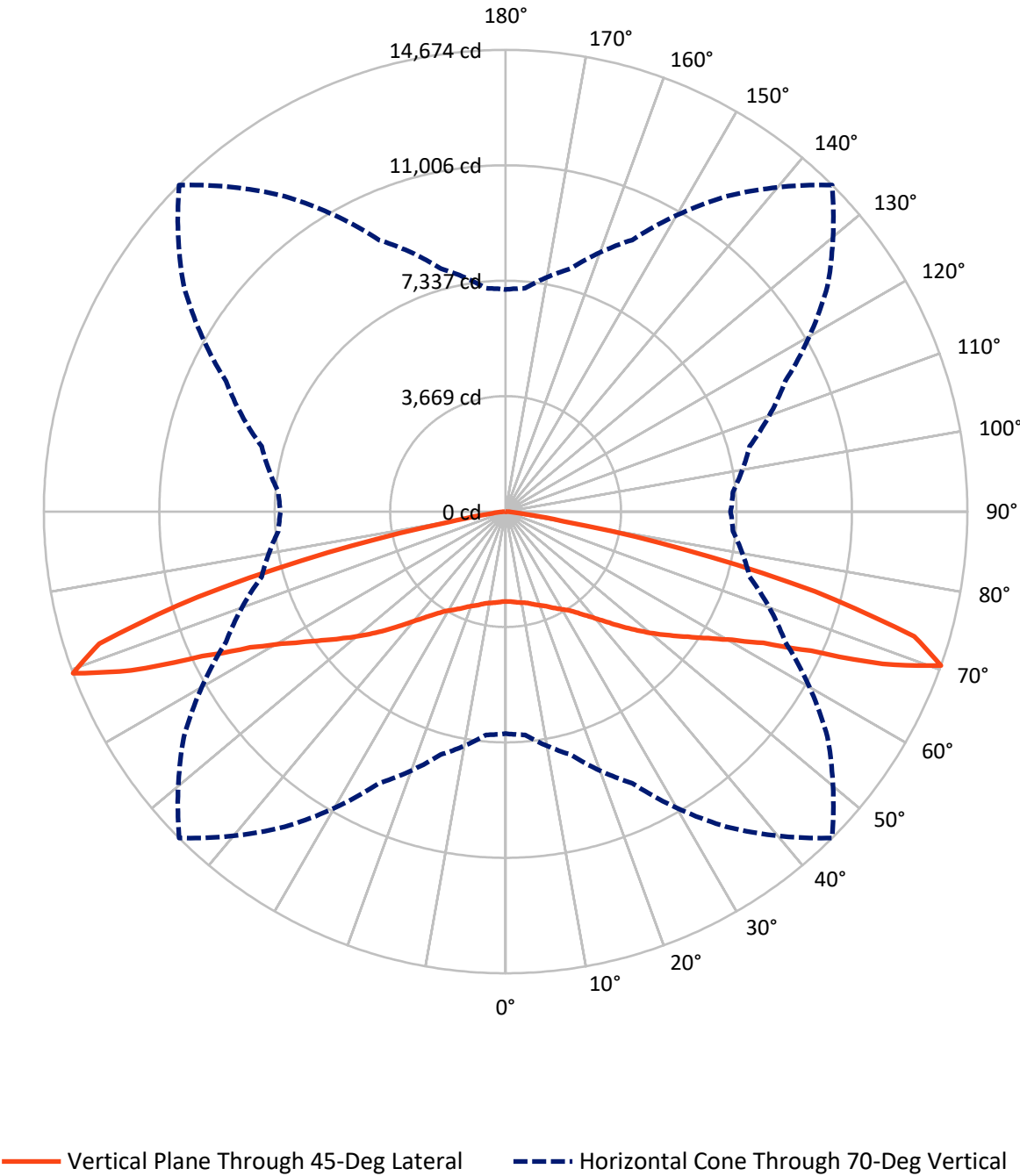


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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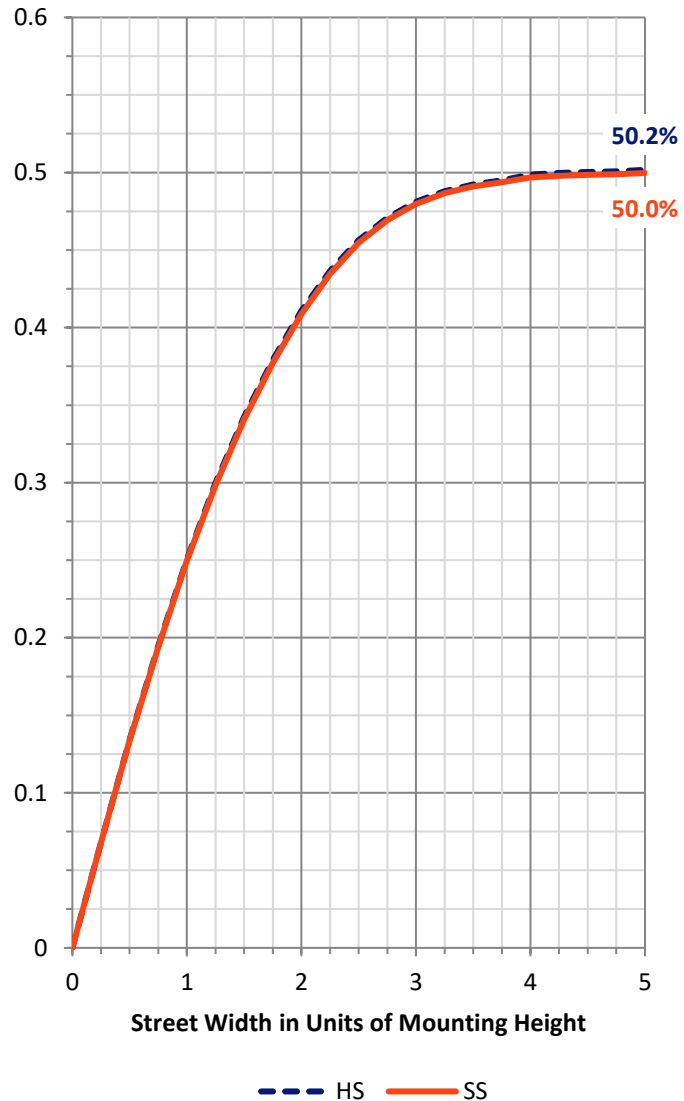
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14941.9	0.0	14941.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14941.9	0.0	14941.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	29883.8	0.0	29883.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.1	0.9
10°-20°	862.4	2.9
20°-30°	1541.1	5.2
30°-40°	2498.1	8.4
40°-50°	4069.1	13.6
50°-60°	6203.9	20.8
60°-70°	9229.5	30.9
70°-80°	5030.4	16.8
80°-90°	171.3	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°	29883.8	100.0
0°-180°	29883.8	100.0

Coefficient of Utilization



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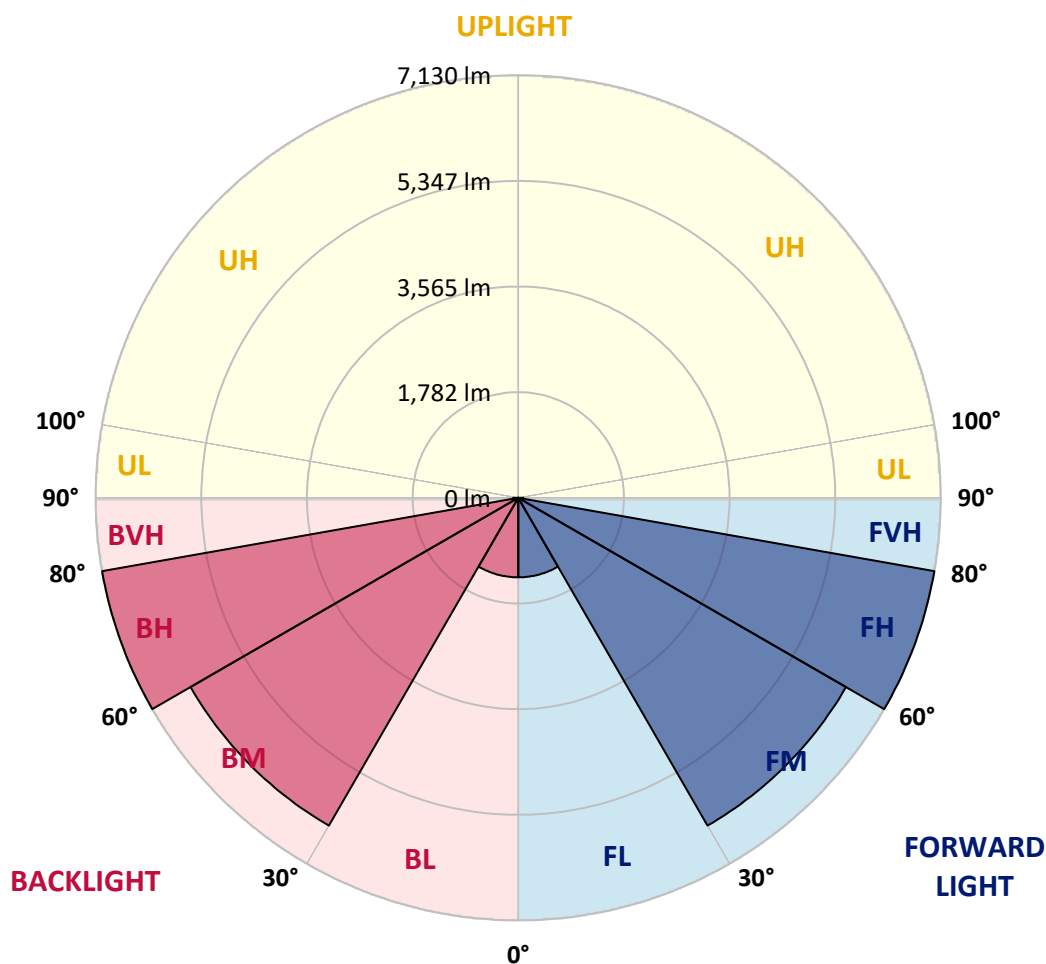
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1340.8	4.5			
FM	(30°-60°)	6385.6	21.4			
FH	(60°-80°)	7129.9	23.9			G3/7500
FVH	(80°-90°)	85.6	0.3			G1/100
BL	(0°-30°)	1340.8	4.5	B3/2500		
BM	(30°-60°)	6385.6	21.4	B4/8500		
BH	(60°-80°)	7129.9	23.9	B5		G3/7500
BVH	(80°-90°)	85.6	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°	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5	2862.5
2.5°	2876.0	2879.0	2873.1	2870.1	2867.0	2862.5	2864.1	2871.5	2877.6	2876.0	2877.6
5°	2900.0	2903.1	2898.6	2897.1	2891.1	2889.6	2889.6	2897.1	2901.6	2898.6	2900.0
7.5°	2927.1	2931.6	2924.1	2922.6	2919.6	2916.5	2915.1	2922.6	2927.1	2927.1	2927.1
10°	2952.6	2957.1	2951.1	2946.6	2943.6	2943.6	2940.6	2946.6	2954.0	2952.6	2952.6
12.5°	2979.6	2982.5	2976.6	2973.6	2973.6	2978.1	2973.6	2976.6	2982.5	2979.6	2978.1
15°	3012.6	3014.1	3012.6	3017.1	3024.6	3039.6	3026.1	3023.1	3026.1	3018.6	3018.6
17.5°	3057.6	3060.6	3066.6	3077.2	3087.6	3114.6	3090.6	3083.1	3083.1	3068.1	3068.1
20°	3113.1	3117.6	3126.7	3144.6	3158.1	3183.6	3159.7	3149.1	3144.6	3125.1	3125.1
22.5°	3171.7	3179.1	3192.7	3216.7	3240.6	3264.6	3240.6	3222.6	3209.2	3183.6	3182.1
25°	3239.1	3248.1	3269.1	3308.2	3341.2	3375.6	3347.1	3311.2	3284.1	3248.1	3246.7
27.5°	3335.1	3345.7	3371.1	3419.2	3461.2	3491.2	3464.2	3417.7	3380.1	3336.7	3335.1
30°	3470.1	3480.7	3510.7	3561.7	3590.2	3609.7	3591.7	3555.7	3510.7	3461.2	3461.2
32.5°	3644.2	3657.7	3690.7	3738.8	3744.7	3747.7	3741.8	3723.7	3690.7	3630.8	3632.2
35°	3864.8	3879.7	3917.2	3956.3	3950.2	3956.3	3947.3	3941.3	3917.2	3848.3	3848.3
37.5°	4134.8	4152.8	4191.8	4221.9	4206.8	4199.3	4200.9	4202.3	4188.9	4112.3	4112.3
40°	4448.4	4472.4	4500.9	4532.3	4506.9	4484.4	4499.3	4511.4	4499.3	4421.3	4421.3
42.5°	4771.0	4805.4	4835.4	4880.4	4859.4	4830.9	4851.9	4865.5	4839.9	4755.9	4761.9
45°	5129.5	5162.5	5201.6	5269.0	5254.0	5224.0	5254.0	5257.0	5213.6	5114.5	5125.0
47.5°	5500.0	5534.6	5593.1	5683.1	5677.2	5644.2	5683.1	5662.1	5606.6	5488.1	5480.6
50°	5851.1	5899.2	5989.2	6115.3	6127.2	6086.7	6139.2	6098.7	6005.7	5857.2	5854.2
52.5°	6181.3	6232.2	6374.8	6545.8	6589.3	6536.8	6607.4	6536.8	6397.2	6206.7	6188.7
55°	6527.8	6584.8	6754.3	6977.9	7064.9	7025.9	7091.9	6985.4	6787.3	6556.3	6524.7
57.5°	6935.9	6970.4	7173.0	7438.4	7585.5	7594.5	7624.5	7444.5	7204.4	6941.9	6905.8
60°	7378.5	7426.4	7647.0	7965.1	8197.6	8272.7	8241.1	7974.1	7695.0	7393.4	7345.5
62.5°	7945.6	7998.1	8262.1	8643.2	9010.8	9196.8	9073.8	8686.7	8341.7	7980.0	7917.1
65°	8415.1	8473.7	8950.8	9630.4	10299.5	10673.1	10364.1	9651.4	9030.2	8520.2	8436.2
67.5°	8074.6	8146.6	8895.3	10143.5	11807.4	12922.1	11864.4	10296.5	9079.8	8388.2	8284.7
70°	7057.4	7124.9	7998.1	9523.9	12231.9	14674.4	12487.0	9804.4	8026.6	7252.4	7148.9
72.5°	4685.4	4903.0	5786.6	7617.0	10922.2	13579.2	11030.2	7462.5	5368.0	4674.9	4523.4
75°	1554.3	1728.4	2331.5	3948.8	7315.4	10155.5	6964.4	3494.2	1846.8	1329.2	1257.3
77.5°	391.5	451.6	622.6	1129.8	2918.1	5782.1	2627.0	922.7	502.6	351.1	313.5
80°	190.5	210.0	300.0	376.6	730.6	1837.8	685.6	354.0	237.1	183.1	168.0
82.5°	105.1	106.5	169.5	213.0	271.5	475.6	282.1	207.0	136.5	111.0	111.0
85°	64.5	63.0	90.0	114.0	114.0	169.5	135.0	114.0	78.0	69.0	72.1
87.5°	25.5	25.5	33.0	36.0	31.5	43.5	34.5	37.5	30.0	28.5	30.0
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)