

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: P966814

Luminaire Tested: **NAV-SB4C-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-830-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28967.5 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

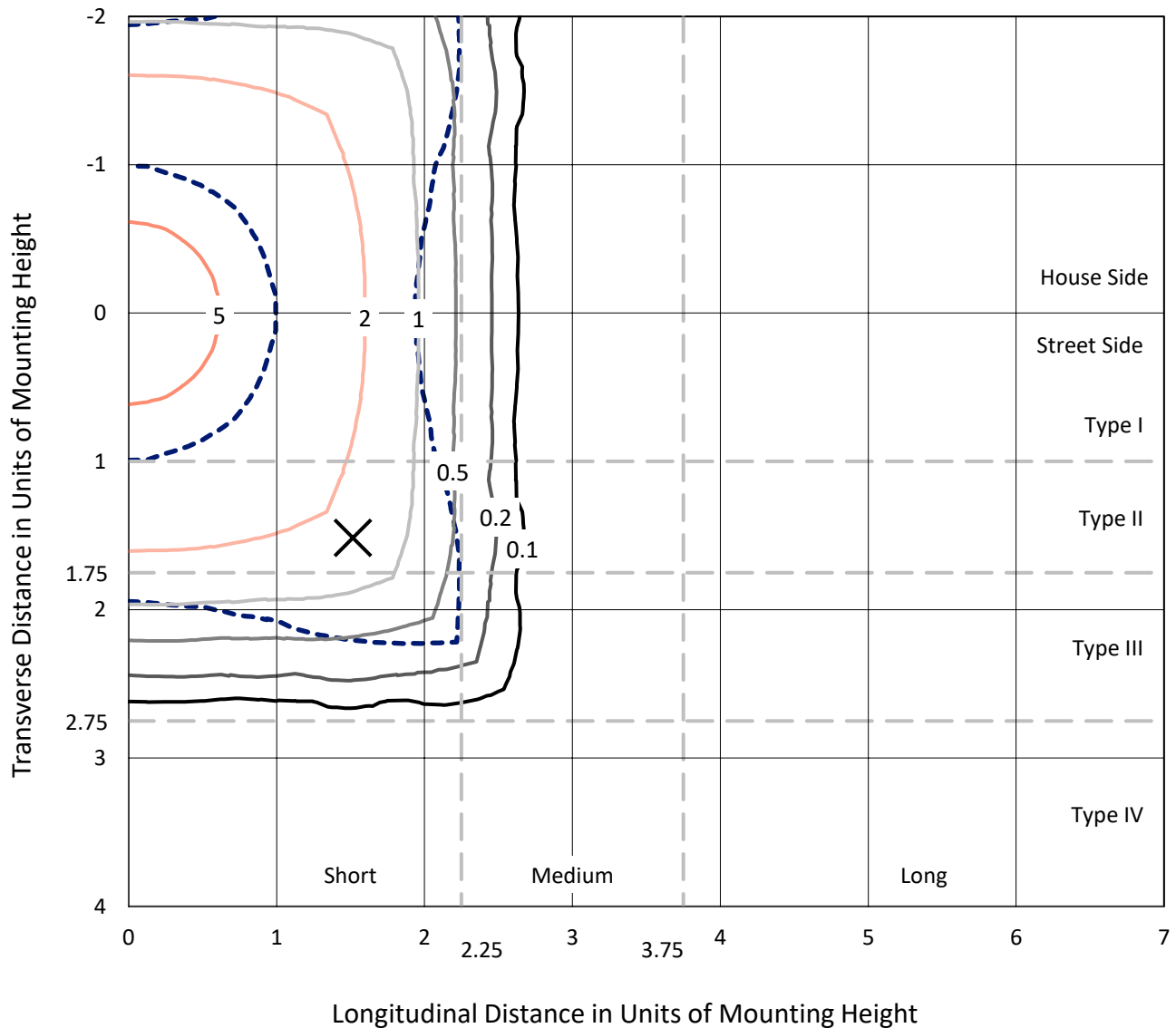
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

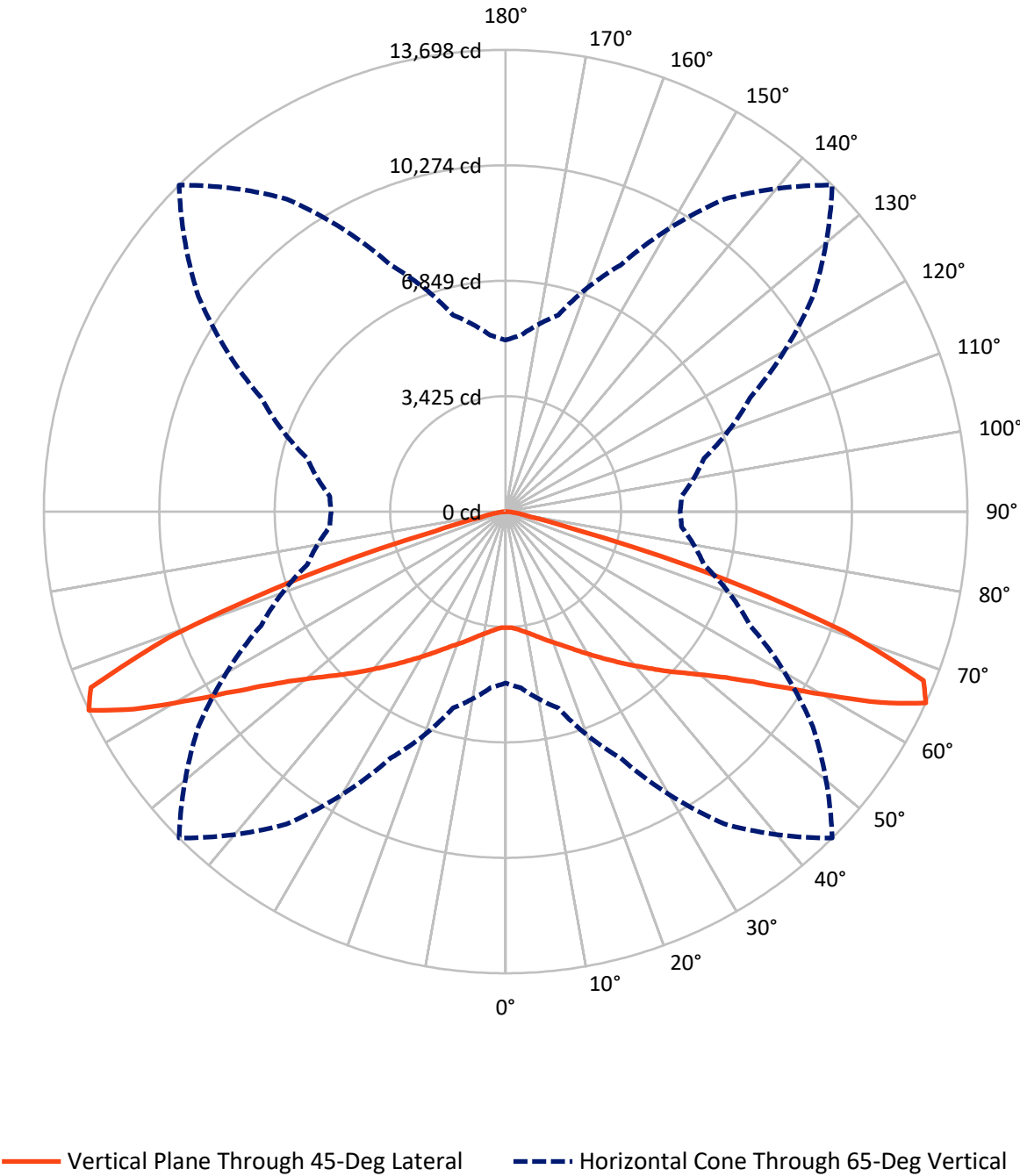
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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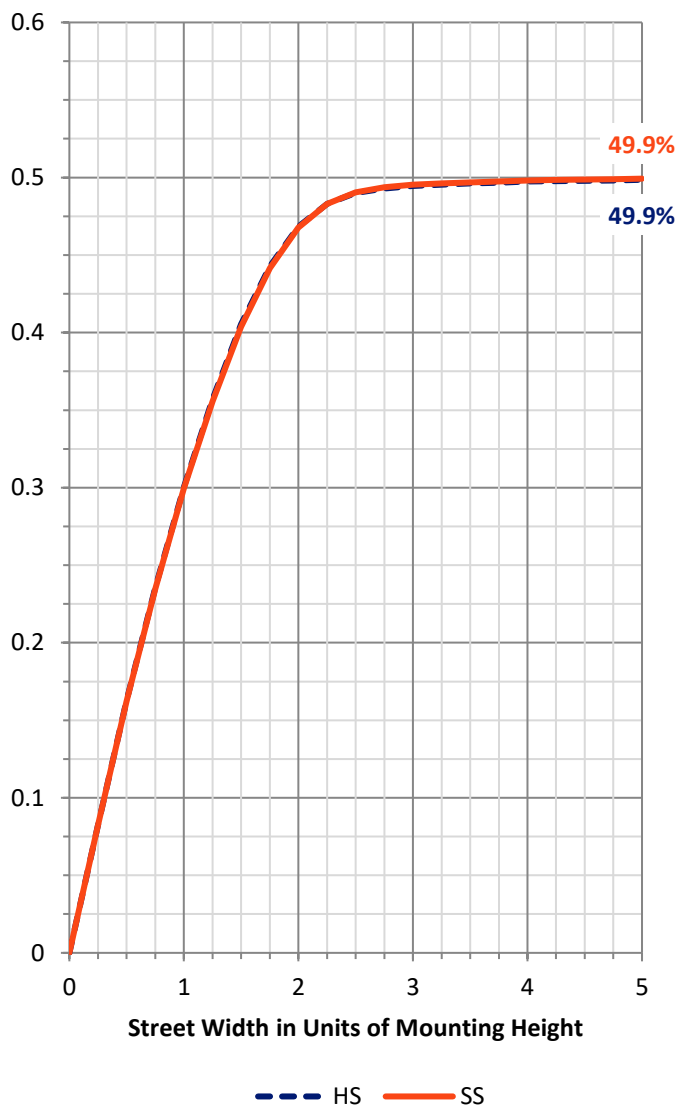
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14483.8	0.0	14483.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14483.8	0.0	14483.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	28967.5	0.0	28967.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.2	1.2
10°-20°	1110.2	3.8
20°-30°	2096.2	7.2
30°-40°	3432.4	11.8
40°-50°	5322.0	18.4
50°-60°	7861.6	27.1
60°-70°	7483.5	25.8
70°-80°	1207.6	4.2
80°-90°	113.8	0.4
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°	28967.5	100.0
0°-180°	28967.5	100.0

Coefficient of Utilization



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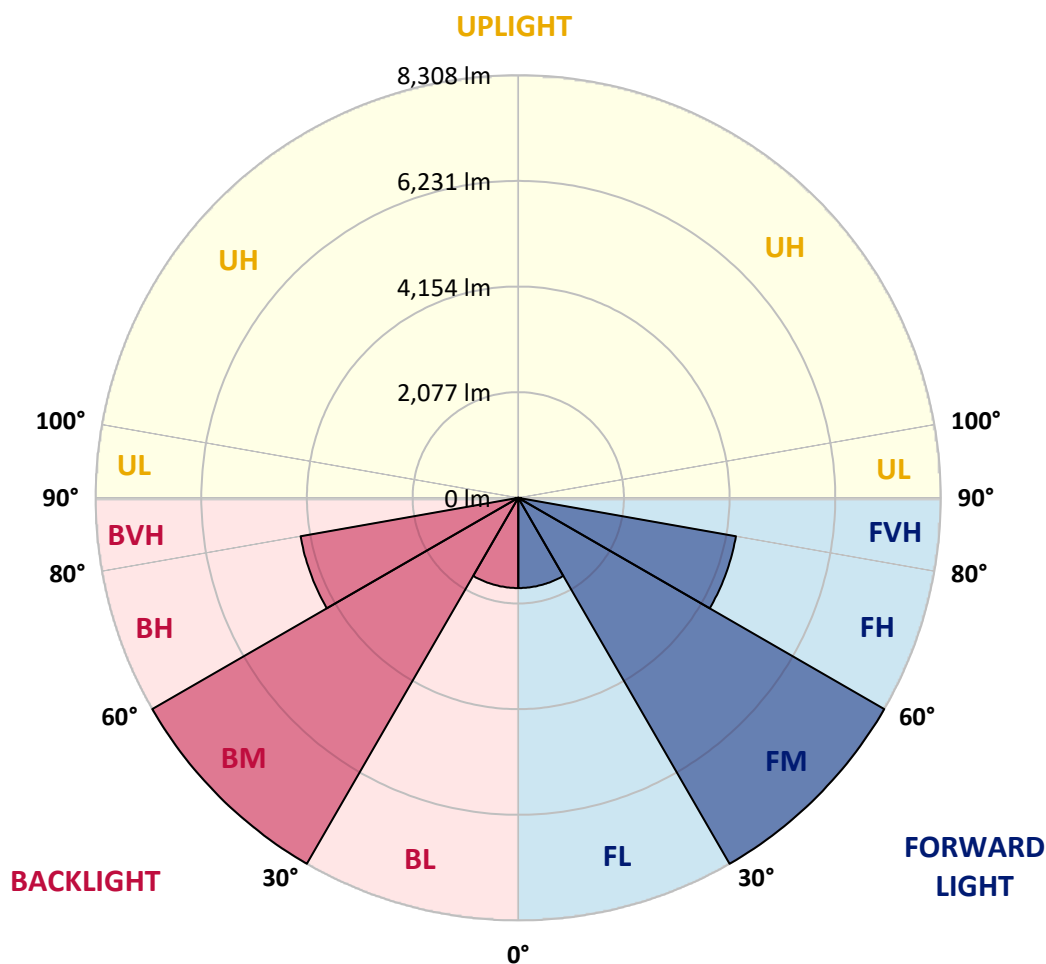
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1773.3	6.1			
FM	(30°-60°)	8308.0	28.7			
FH	(60°-80°)	4345.6	15.0			G2/5000
FVH	(80°-90°)	56.9	0.2			G1/100
BL	(0°-30°)	1773.3	6.1	B3/2500		
BM	(30°-60°)	8308.0	28.7	B4/8500		
BH	(60°-80°)	4345.6	15.0	B4/5000		G2/5000
BVH	(80°-90°)	56.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3447.4	3447.4	3447.4	3447.4	3447.4	3447.4	3447.4	3447.4	3447.4	3447.4	3447.4
2.5°	3470.6	3459.1	3467.8	3460.5	3454.7	3448.9	3451.8	3461.9	3466.3	3467.8	3467.8
5°	3517.2	3507.0	3511.3	3511.3	3501.2	3498.3	3499.8	3507.0	3515.7	3515.7	3515.7
7.5°	3592.7	3582.6	3592.7	3587.0	3578.3	3575.3	3573.9	3579.7	3592.7	3592.7	3588.4
10°	3684.4	3672.7	3678.5	3675.6	3665.4	3661.1	3659.7	3668.4	3680.0	3678.5	3675.6
12.5°	3784.6	3771.5	3778.8	3770.1	3767.2	3762.8	3762.8	3761.3	3768.6	3762.8	3765.7
15°	3896.5	3887.8	3890.7	3884.9	3889.3	3886.4	3874.7	3868.9	3871.8	3863.1	3864.6
17.5°	4028.8	4008.5	4018.6	4015.7	4015.7	4021.5	4002.6	3995.3	4001.2	3992.5	3999.8
20°	4181.4	4161.0	4165.4	4159.6	4152.3	4158.1	4134.8	4140.7	4145.1	4139.3	4152.3
22.5°	4348.6	4322.3	4320.9	4323.9	4307.9	4309.3	4293.3	4307.9	4316.6	4300.6	4316.6
25°	4520.0	4492.4	4511.3	4504.1	4483.7	4488.1	4476.4	4490.9	4498.2	4477.9	4501.1
27.5°	4701.7	4682.8	4700.2	4704.6	4679.9	4697.4	4679.9	4693.0	4700.2	4669.7	4693.0
30°	4913.8	4895.0	4911.0	4922.6	4893.6	4921.1	4906.6	4915.4	4916.8	4880.4	4902.3
32.5°	5145.0	5115.9	5156.6	5162.4	5130.4	5163.8	5145.0	5156.6	5163.8	5114.4	5147.9
35°	5427.0	5390.6	5437.1	5429.8	5402.3	5429.8	5412.4	5429.8	5447.3	5387.7	5424.0
37.5°	5730.7	5693.0	5742.4	5729.2	5703.1	5722.0	5711.8	5723.4	5751.1	5687.1	5726.4
40°	6064.9	6018.5	6085.3	6062.1	6037.4	6034.5	6040.2	6047.5	6083.9	6012.6	6035.9
42.5°	6422.5	6373.0	6473.4	6437.0	6402.2	6378.9	6397.7	6412.3	6447.2	6367.3	6409.4
45°	6830.9	6774.2	6905.0	6861.5	6806.2	6758.2	6788.8	6810.5	6861.5	6765.5	6814.9
47.5°	7281.5	7217.5	7357.0	7343.9	7253.8	7149.2	7219.0	7281.5	7319.2	7203.0	7242.2
50°	7721.8	7672.4	7855.5	7871.5	7761.1	7614.3	7711.7	7806.1	7816.3	7663.7	7682.6
52.5°	8134.6	8085.2	8351.2	8451.4	8352.6	8178.2	8281.4	8377.3	8300.2	8102.6	8108.5
55°	8464.6	8423.9	8762.4	9021.1	9054.5	8910.7	8971.7	8968.9	8716.0	8412.2	8422.3
57.5°	8544.4	8538.7	8965.9	9513.8	9862.7	9880.1	9759.4	9451.3	8906.3	8498.0	8471.7
60°	8181.1	8217.4	8804.5	9771.1	10701.3	11087.8	10566.1	9686.8	8689.7	8122.9	8056.1
62.5°	7093.9	7189.9	7897.7	9457.2	11378.5	12477.3	11212.9	9329.2	7800.4	7060.5	7016.9
65°	5083.9	5251.1	6032.9	8070.6	11317.5	13698.1	11119.8	8005.2	6091.2	5238.0	5175.5
67.5°	2306.6	2476.6	3140.8	5525.8	9837.9	13366.7	9814.7	5583.9	3297.7	2485.3	2448.9
70°	835.7	864.8	1078.4	2212.1	6287.3	10650.4	6556.2	2228.0	1146.8	921.5	909.8
72.5°	505.7	510.1	555.2	792.1	2184.5	6466.1	2277.4	818.3	566.8	502.9	511.6
75°	321.2	318.3	395.3	484.0	774.7	2181.5	812.4	484.0	393.9	359.0	361.9
77.5°	231.1	238.3	283.4	361.9	488.3	739.7	479.6	345.9	283.4	232.6	236.9
80°	172.9	177.3	206.3	282.0	343.0	460.7	305.2	255.8	213.6	145.3	149.6
82.5°	124.9	124.9	135.2	204.9	209.3	248.6	165.6	180.2	140.9	103.2	103.2
85°	74.1	72.7	84.3	122.1	109.0	91.5	75.5	110.5	88.7	64.0	62.5
87.5°	26.1	27.6	26.1	34.8	29.1	24.7	23.3	30.5	24.7	21.8	20.4
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)