

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: P964551

Luminaire Tested: **NAV-SB3C-735-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964551
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-SB3C-735-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24134.7 lumens
Efficiency: N/A
Efficacy: 161.9 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): 149.1
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

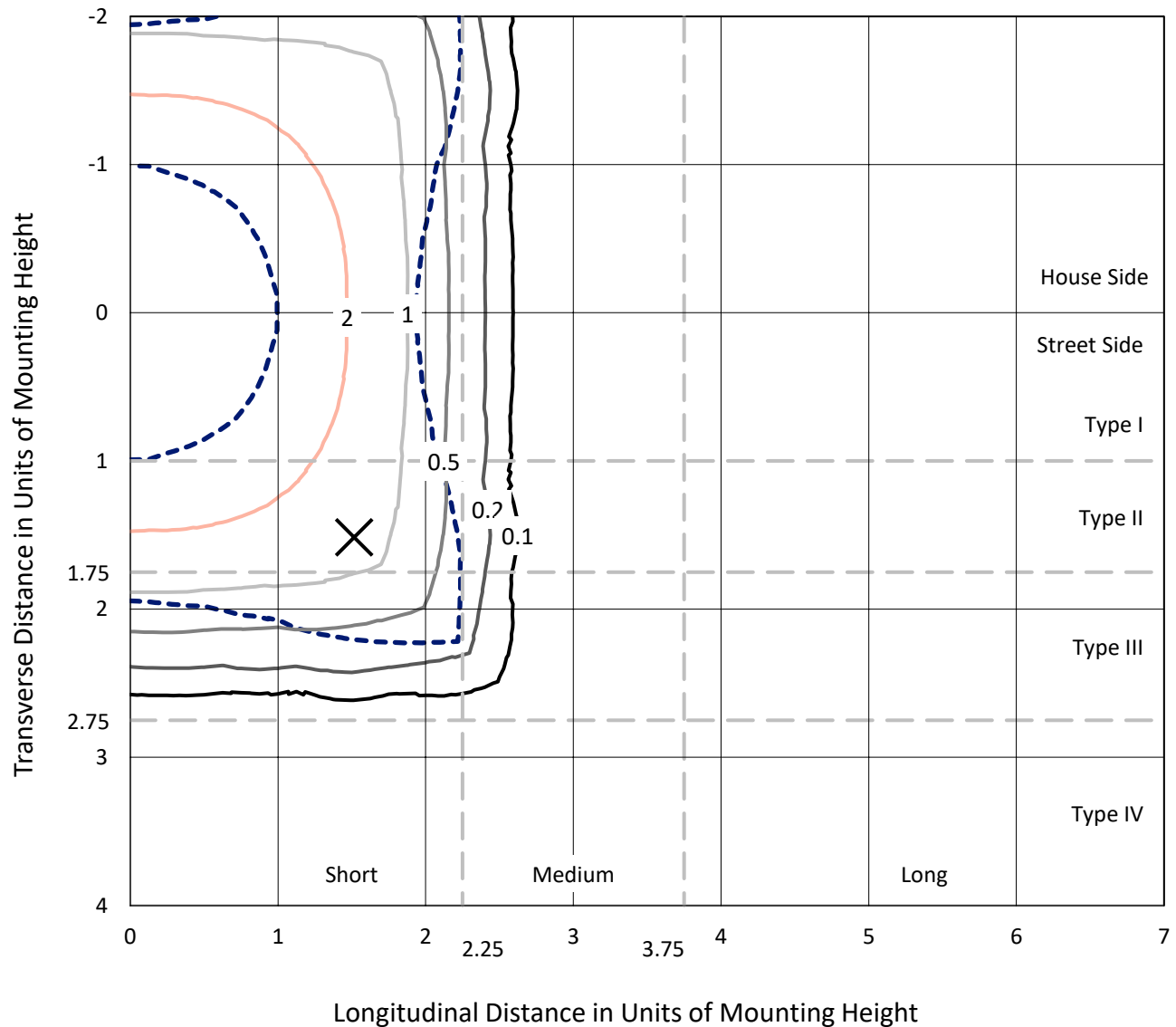


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Iso-Footcandle Lines of Horizontal Illumination

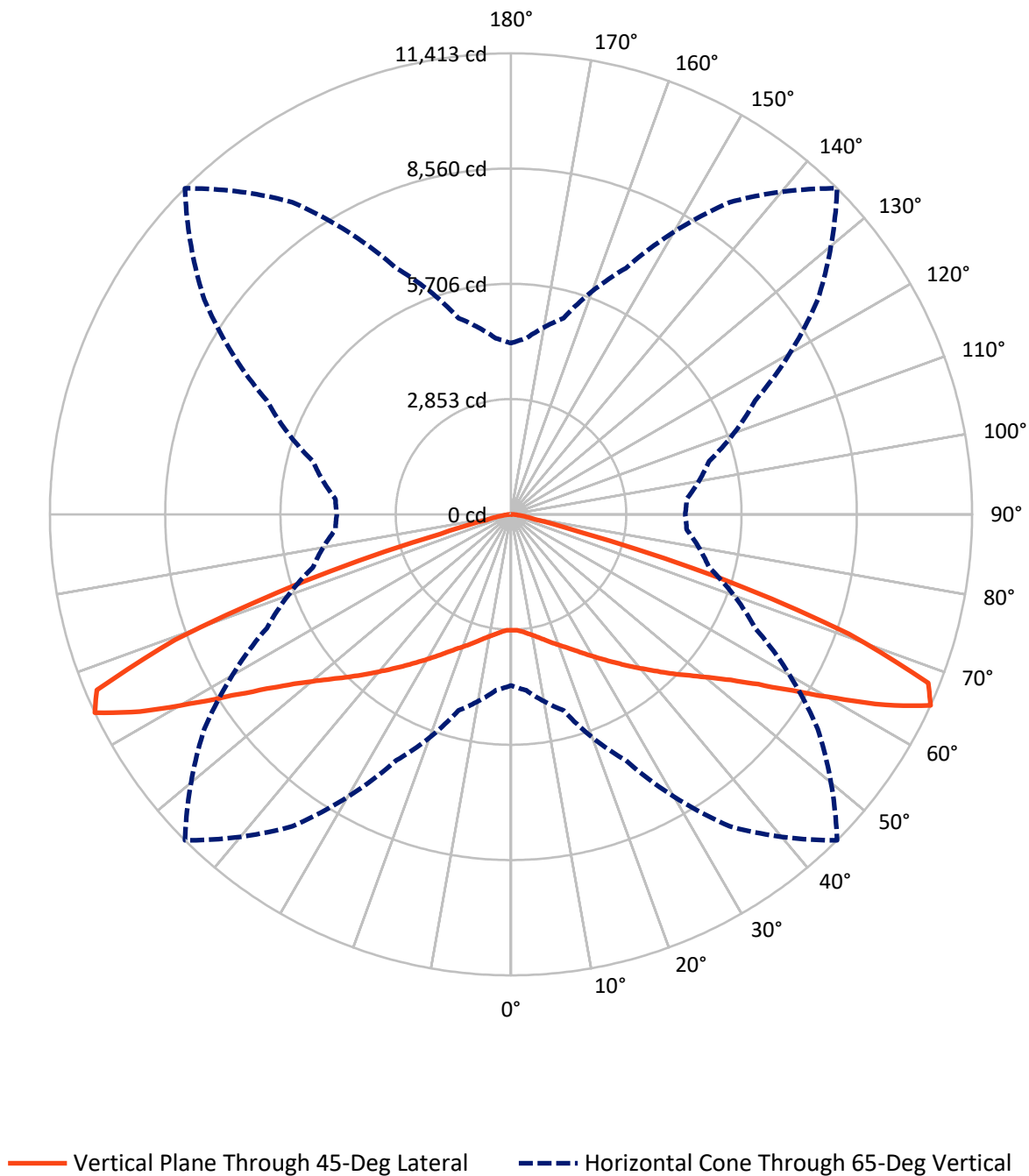
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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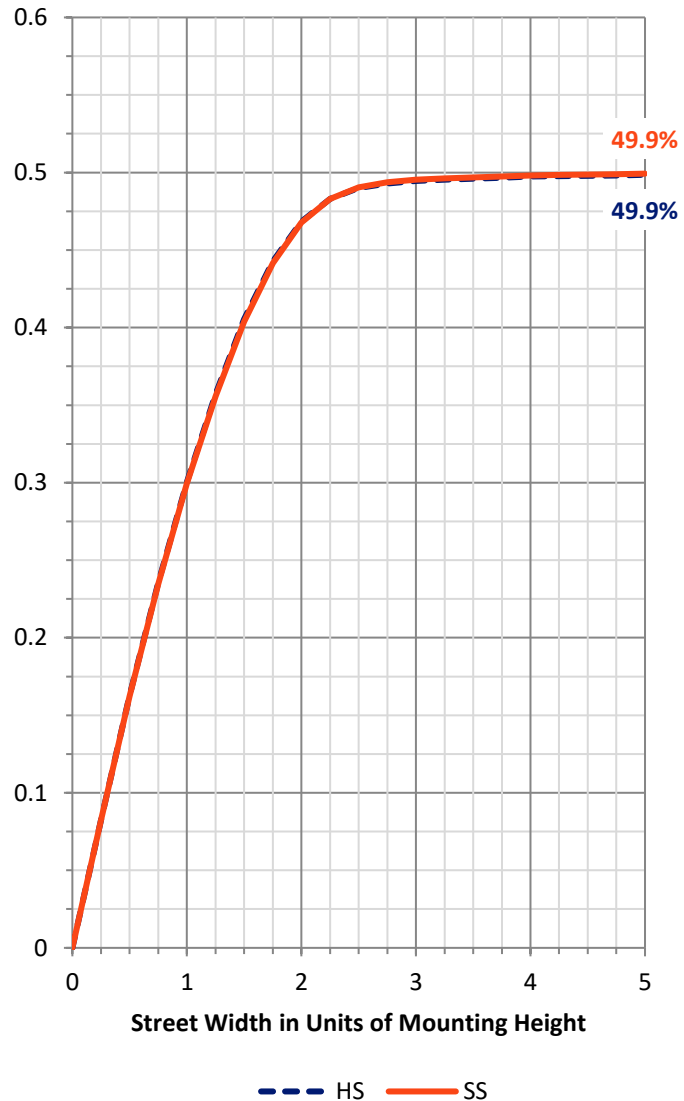
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12067.3	0.0	12067.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12067.3	0.0	12067.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	24134.7	0.0	24134.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.5	1.2
10°-20°	925.0	3.8
20°-30°	1746.4	7.2
30°-40°	2859.7	11.8
40°-50°	4434.1	18.4
50°-60°	6550.0	27.1
60°-70°	6235.0	25.8
70°-80°	1006.1	4.2
80°-90°	94.8	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°	24134.7	100.0
0°-180°	24134.7	100.0

Coefficient of Utilization



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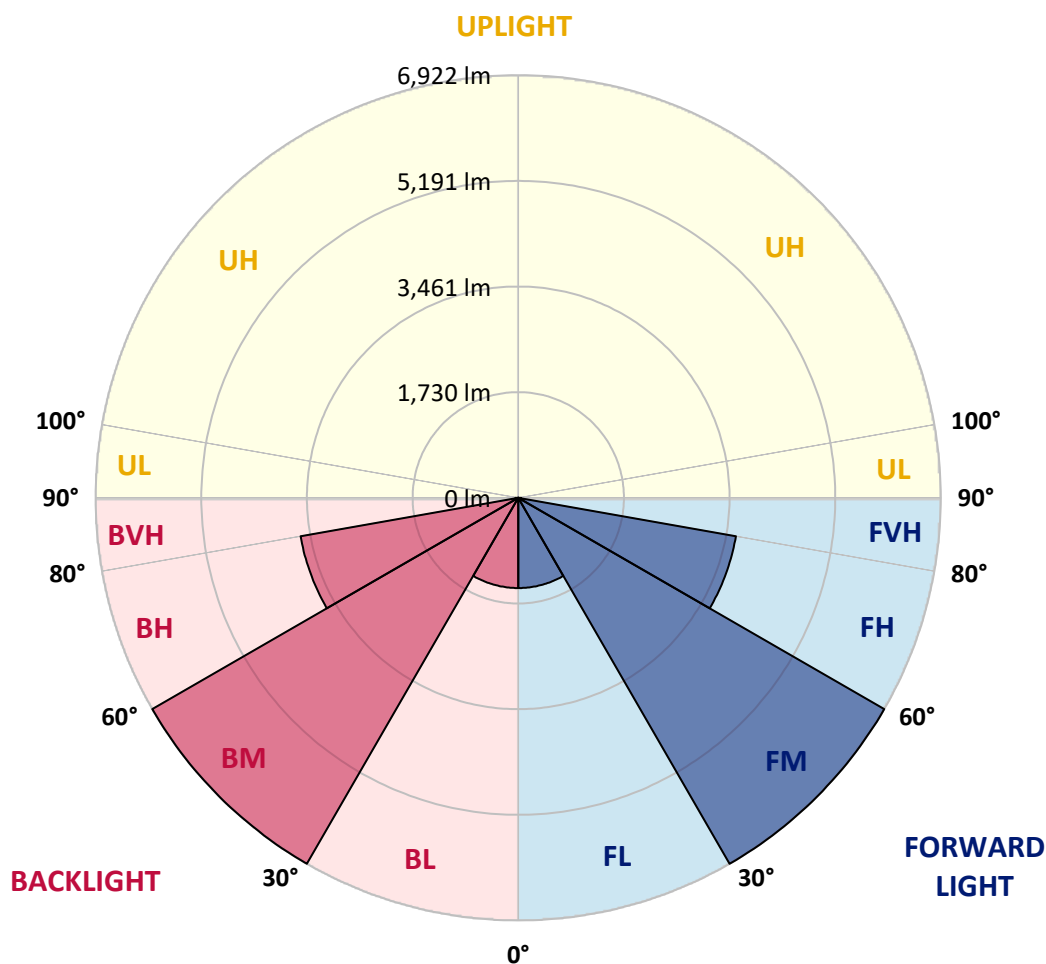
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1477.4	6.1			
FM	(30°-60°)	6921.9	28.7			
FH	(60°-80°)	3620.6	15.0			G2/5000
FVH	(80°-90°)	47.4	0.2			G1/100
BL	(0°-30°)	1477.4	6.1	B3/2500		
BM	(30°-60°)	6921.9	28.7	B4/8500		
BH	(60°-80°)	3620.6	15.0	B4/5000		G2/5000
BVH	(80°-90°)	47.4	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°	2872.3	2872.3	2872.3	2872.3	2872.3	2872.3	2872.3	2872.3	2872.3	2872.3	2872.3
2.5°	2891.6	2882.0	2889.2	2883.1	2878.3	2873.5	2875.9	2884.4	2888.0	2889.2	2889.2
5°	2930.4	2921.9	2925.6	2925.6	2917.0	2914.7	2915.8	2921.9	2929.1	2929.1	2929.1
7.5°	2993.3	2984.9	2993.3	2988.5	2981.2	2978.9	2977.6	2982.4	2993.3	2993.3	2989.7
10°	3069.7	3059.9	3064.7	3062.4	3053.9	3050.3	3049.1	3056.3	3066.0	3064.7	3062.4
12.5°	3153.2	3142.3	3148.4	3141.1	3138.7	3135.1	3135.1	3133.8	3139.9	3135.1	3137.4
15°	3246.5	3239.2	3241.6	3236.7	3240.3	3238.0	3228.2	3223.4	3225.9	3218.6	3219.8
17.5°	3356.7	3339.7	3348.2	3345.7	3345.7	3350.6	3334.8	3328.8	3333.6	3326.3	3332.4
20°	3483.8	3466.9	3470.4	3465.6	3459.6	3464.4	3445.0	3449.8	3453.5	3448.6	3459.6
22.5°	3623.1	3601.2	3600.0	3602.5	3589.1	3590.4	3577.0	3589.1	3596.4	3583.1	3596.4
25°	3766.0	3742.9	3758.7	3752.6	3735.6	3739.3	3729.6	3741.7	3747.7	3730.8	3750.2
27.5°	3917.2	3901.6	3916.1	3919.7	3899.1	3913.7	3899.1	3910.0	3916.1	3890.6	3910.0
30°	4094.1	4078.4	4091.6	4101.3	4077.1	4100.1	4088.0	4095.3	4096.5	4066.2	4084.4
32.5°	4286.5	4262.4	4296.3	4301.1	4274.5	4302.3	4286.5	4296.3	4302.3	4261.1	4289.0
35°	4521.5	4491.2	4530.0	4523.9	4501.0	4523.9	4509.4	4523.9	4538.5	4488.8	4519.1
37.5°	4774.6	4743.1	4784.3	4773.4	4751.6	4767.4	4758.9	4768.5	4791.6	4738.3	4771.0
40°	5053.1	5014.4	5070.1	5050.7	5030.1	5027.6	5032.5	5038.6	5068.8	5009.5	5028.9
42.5°	5351.0	5309.8	5393.3	5363.1	5334.0	5314.6	5330.4	5342.5	5371.6	5305.0	5340.0
45°	5691.2	5644.1	5753.0	5716.6	5670.7	5630.7	5656.2	5674.3	5716.6	5636.8	5677.9
47.5°	6066.7	6013.4	6129.6	6118.7	6043.6	5956.5	6014.6	6066.7	6098.1	6001.3	6034.0
50°	6433.5	6392.4	6544.9	6558.3	6466.2	6343.9	6425.0	6503.7	6512.2	6385.1	6400.8
52.5°	6777.4	6736.3	6957.9	7041.4	6959.0	6813.8	6899.7	6979.6	6915.5	6750.8	6755.7
55°	7052.3	7018.4	7300.6	7516.1	7543.9	7424.1	7474.9	7472.5	7261.8	7008.7	7017.2
57.5°	7118.9	7114.0	7470.1	7926.5	8217.2	8231.8	8131.2	7874.5	7420.4	7080.2	7058.4
60°	6816.1	6846.5	7335.6	8141.0	8915.9	9238.0	8803.3	8070.6	7240.0	6767.8	6712.0
62.5°	5910.5	5990.3	6580.1	7879.4	9480.1	10395.7	9342.2	7772.8	6498.9	5882.6	5846.3
65°	4235.7	4375.0	5026.5	6724.1	9429.3	11412.8	9264.7	6669.7	5074.9	4364.1	4312.1
67.5°	1921.7	2063.4	2616.7	4603.9	8196.6	11136.7	8177.2	4652.3	2747.5	2070.6	2040.4
70°	696.3	720.5	898.5	1843.0	5238.4	8873.5	5462.4	1856.3	955.4	767.7	758.0
72.5°	421.4	425.1	462.6	659.9	1820.0	5387.3	1897.5	681.7	472.2	419.0	426.2
75°	267.6	265.2	329.3	403.2	645.4	1817.5	676.9	403.2	328.2	299.1	301.6
77.5°	192.5	198.5	236.2	301.6	406.8	616.3	399.6	288.2	236.2	193.7	197.4
80°	144.1	147.7	172.0	234.9	285.8	383.9	254.3	213.1	178.0	121.1	124.7
82.5°	104.1	104.1	112.6	170.8	174.4	207.0	138.1	150.2	117.5	86.0	86.0
85°	61.7	60.6	70.2	101.7	90.8	76.3	62.9	92.0	73.9	53.3	52.1
87.5°	21.8	23.0	21.8	29.1	24.2	20.6	19.4	25.4	20.6	18.1	16.9
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)