

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: P971029

Luminaire Tested: **NAV-SB6C-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971029
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-SB6C-830-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43804.4 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 300.9
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



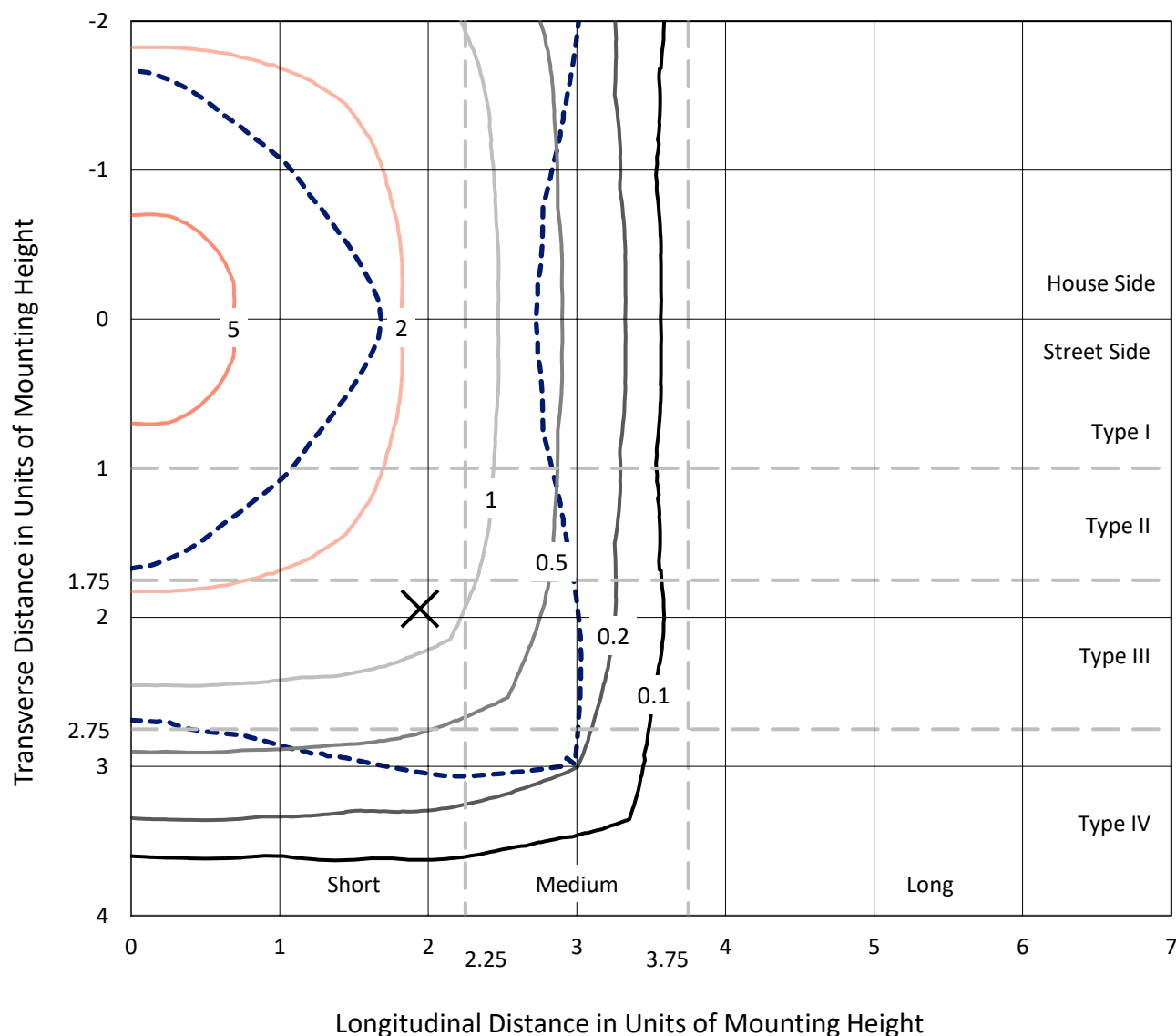
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

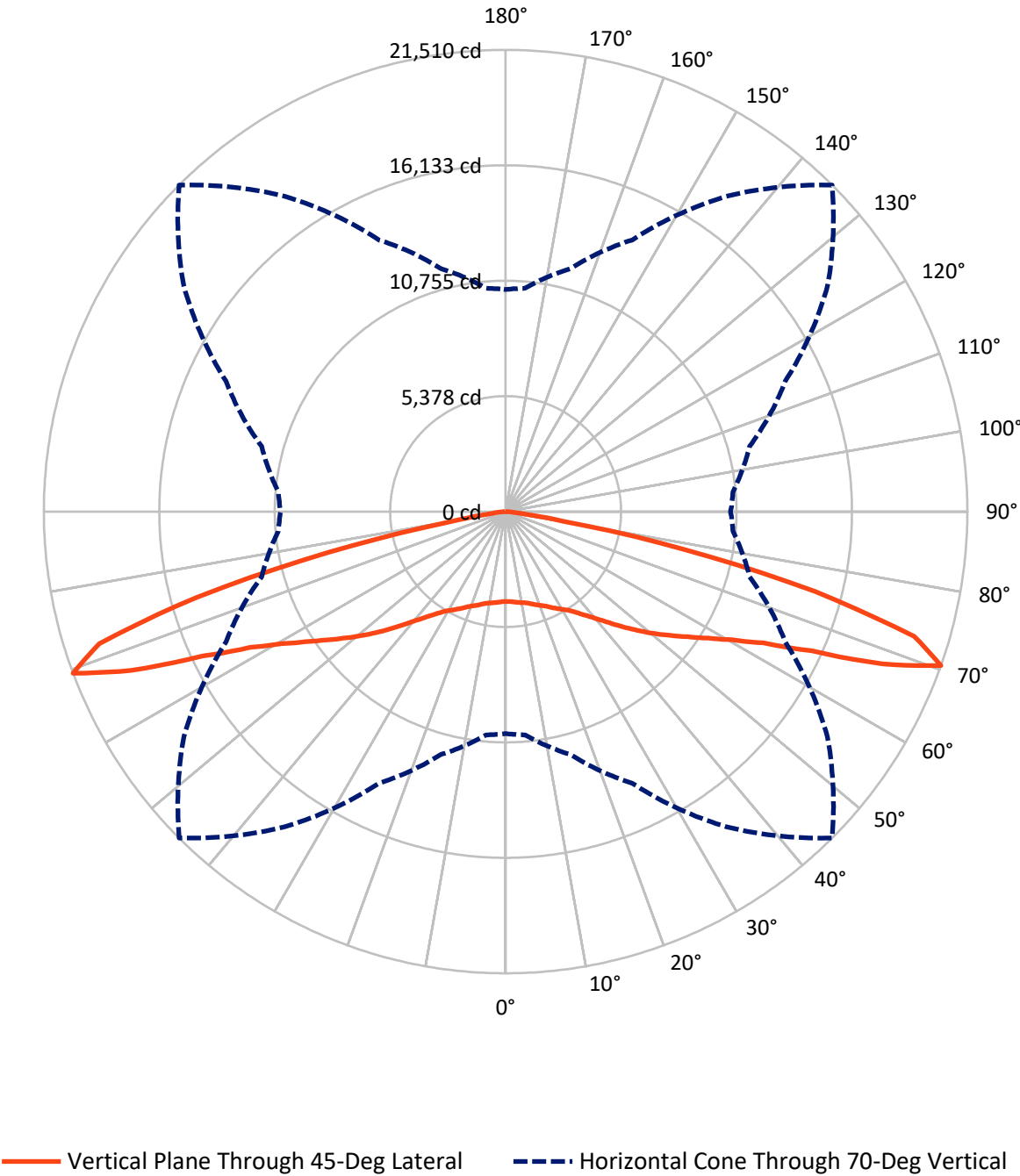


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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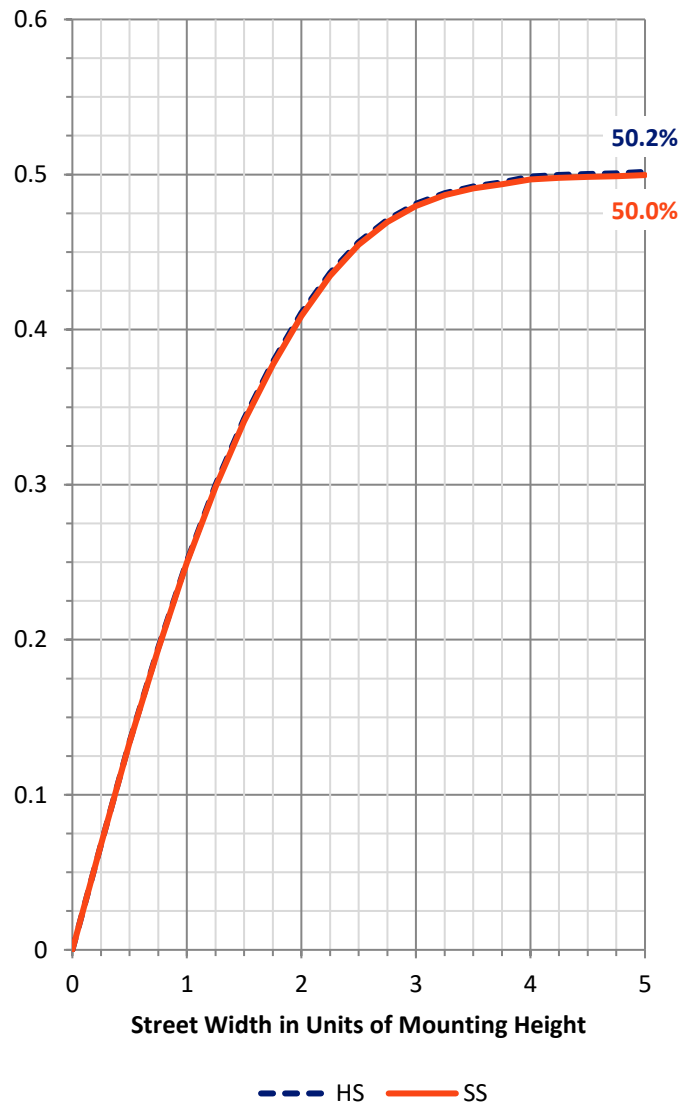
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21902.2	0.0	21902.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21902.2	0.0	21902.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	43804.4	0.0	43804.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.6	0.9
10°-20°	1264.1	2.9
20°-30°	2259.0	5.2
30°-40°	3661.8	8.4
40°-50°	5964.5	13.6
50°-60°	9093.9	20.8
60°-70°	13528.8	30.9
70°-80°	7373.6	16.8
80°-90°	251.1	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°	43804.4	100.0
0°-180°	43804.4	100.0

Coefficient of Utilization



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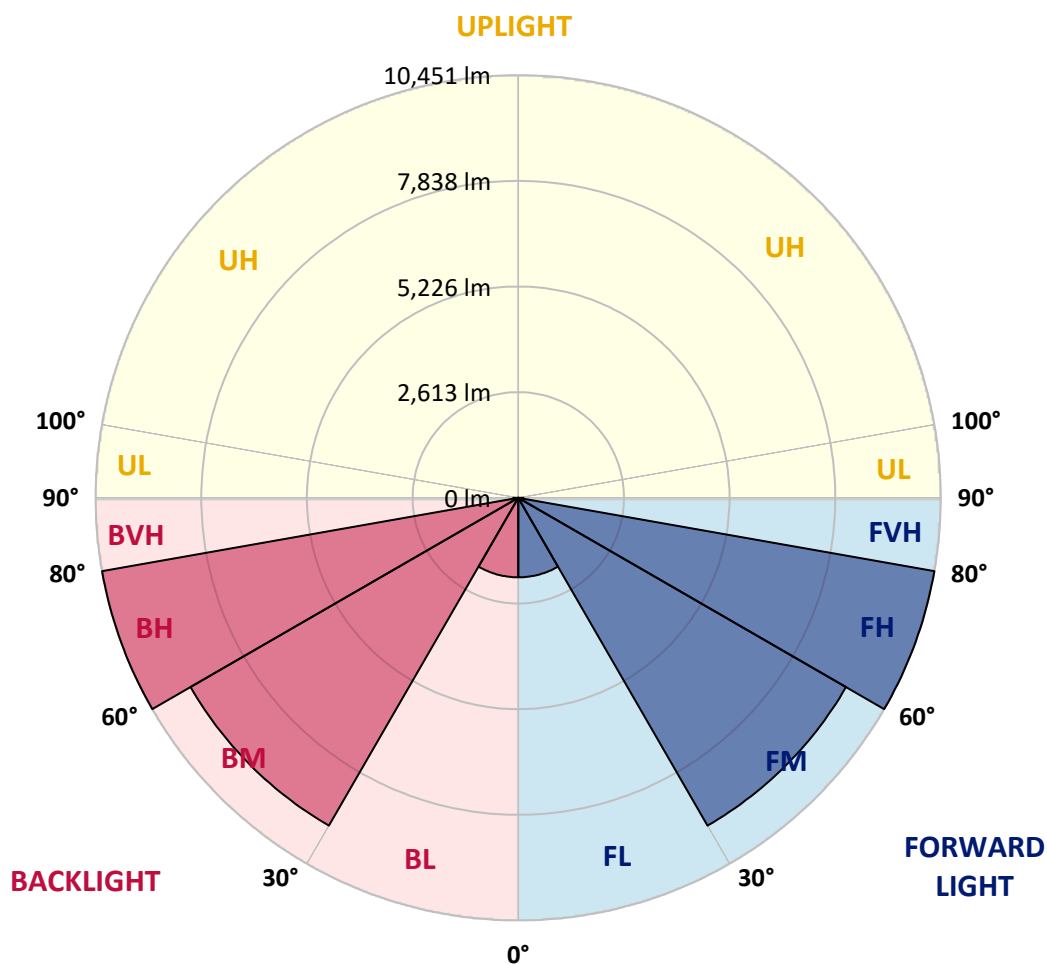
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1965.3	4.5			
FM	(30°-60°)	9360.1	21.4			
FH	(60°-80°)	10451.2	23.9			G4/12000
FVH	(80°-90°)	125.6	0.3			G2/225
BL	(0°-30°)	1965.3	4.5	B3/2500		
BM	(30°-60°)	9360.1	21.4	B5		
BH	(60°-80°)	10451.2	23.9	B5		G4/12000
BVH	(80°-90°)	125.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4196.0	4196.0	4196.0	4196.0	4196.0	4196.0	4196.0	4196.0	4196.0	4196.0	4196.0
2.5°	4215.8	4220.2	4211.4	4207.0	4202.6	4196.0	4198.2	4209.2	4218.0	4215.8	4218.0
5°	4251.0	4255.4	4248.8	4246.6	4237.8	4235.6	4235.6	4246.6	4253.2	4248.8	4251.0
7.5°	4290.5	4297.2	4286.1	4284.0	4279.6	4275.2	4273.0	4284.0	4290.5	4290.5	4290.5
10°	4328.0	4334.5	4325.8	4319.1	4314.7	4314.7	4310.3	4319.1	4330.1	4328.0	4328.0
12.5°	4367.5	4371.9	4363.1	4358.7	4358.7	4365.4	4358.7	4363.1	4371.9	4367.5	4365.4
15°	4415.9	4418.2	4415.9	4422.6	4433.5	4455.5	4435.7	4431.3	4435.7	4424.7	4424.7
17.5°	4481.9	4486.3	4495.1	4510.5	4525.9	4565.5	4530.3	4519.3	4519.3	4497.3	4497.3
20°	4563.3	4569.9	4583.1	4609.4	4629.2	4666.6	4631.5	4616.1	4609.4	4580.8	4580.8
22.5°	4649.0	4660.1	4679.8	4715.0	4750.2	4785.4	4750.2	4723.8	4704.0	4666.6	4664.5
25°	4748.0	4761.2	4792.0	4849.2	4897.6	4948.1	4906.4	4853.6	4814.0	4761.2	4759.0
27.5°	4888.7	4904.1	4941.5	5011.9	5073.4	5117.4	5077.8	5009.7	4954.7	4891.0	4888.7
30°	5086.7	5102.0	5146.0	5220.8	5262.6	5291.2	5264.8	5212.0	5146.0	5073.4	5073.4
32.5°	5341.8	5361.6	5410.0	5480.4	5489.1	5493.5	5484.7	5458.3	5410.0	5322.0	5324.2
35°	5665.1	5687.0	5742.0	5799.2	5790.4	5799.2	5786.0	5777.2	5742.0	5640.9	5640.9
37.5°	6060.9	6087.3	6144.5	6188.4	6166.5	6155.4	6157.7	6159.8	6140.1	6027.9	6027.9
40°	6520.5	6555.7	6597.5	6643.6	6606.3	6573.3	6595.3	6612.9	6595.3	6481.0	6481.0
42.5°	6993.4	7043.9	7087.9	7153.9	7123.1	7081.3	7112.1	7131.8	7094.5	6971.3	6980.1
45°	7519.0	7567.4	7624.5	7723.5	7701.4	7657.5	7701.4	7705.8	7642.1	7497.0	7512.3
47.5°	8062.1	8112.8	8198.5	8330.5	8321.7	8273.3	8330.5	8299.6	8218.2	8044.5	8033.5
50°	8576.8	8647.1	8779.0	8963.8	8981.4	8922.0	8999.0	8939.6	8803.2	8585.5	8581.1
52.5°	9060.6	9135.3	9344.2	9594.9	9658.8	9581.8	9685.1	9581.8	9377.2	9097.9	9071.6
55°	9568.6	9652.1	9900.7	10228.3	10355.9	10298.7	10395.4	10239.3	9949.1	9610.4	9564.2
57.5°	10166.8	10217.3	10514.2	10903.4	11119.0	11132.2	11176.2	10912.3	10560.4	10175.6	10122.8
60°	10815.5	10885.9	11209.2	11675.4	12016.3	12126.2	12080.0	11688.6	11279.5	10837.5	10767.1
62.5°	11646.8	11723.7	12110.8	12669.4	13208.2	13480.9	13300.6	12733.2	12227.3	11697.4	11604.9
65°	12335.2	12420.8	13120.2	14116.4	15097.2	15644.9	15191.8	14147.3	13236.7	12489.1	12365.9
67.5°	11835.9	11941.5	13038.8	14868.5	17307.4	18941.4	17391.0	15092.9	13309.3	12295.5	12143.8
70°	10344.9	10443.8	11723.7	13960.3	17929.8	21510.0	18303.6	14371.5	11765.6	10630.8	10479.0
72.5°	6868.0	7186.9	8482.2	11165.1	16009.9	19904.7	16168.2	10938.7	7868.6	6852.6	6630.5
75°	2278.4	2533.4	3417.5	5788.2	10723.1	14886.2	10208.5	5121.8	2707.1	1948.4	1843.0
77.5°	574.0	661.9	912.7	1656.0	4277.4	8475.6	3850.7	1352.5	736.8	514.7	459.6
80°	279.3	307.9	439.8	552.0	1071.0	2694.0	1005.0	519.0	347.5	268.3	246.3
82.5°	154.0	156.1	248.5	312.3	398.0	697.1	413.5	303.5	200.1	162.8	162.8
85°	94.6	92.4	131.9	167.2	167.2	248.5	197.9	167.2	114.4	101.2	105.6
87.5°	37.4	37.4	48.4	52.8	46.2	63.8	50.5	54.9	44.0	41.8	44.0
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)