

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: P970907

Luminaire Tested: **NAV-SB6C-740-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49815 lumens
Efficiency: N/A
Efficacy: 165.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

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

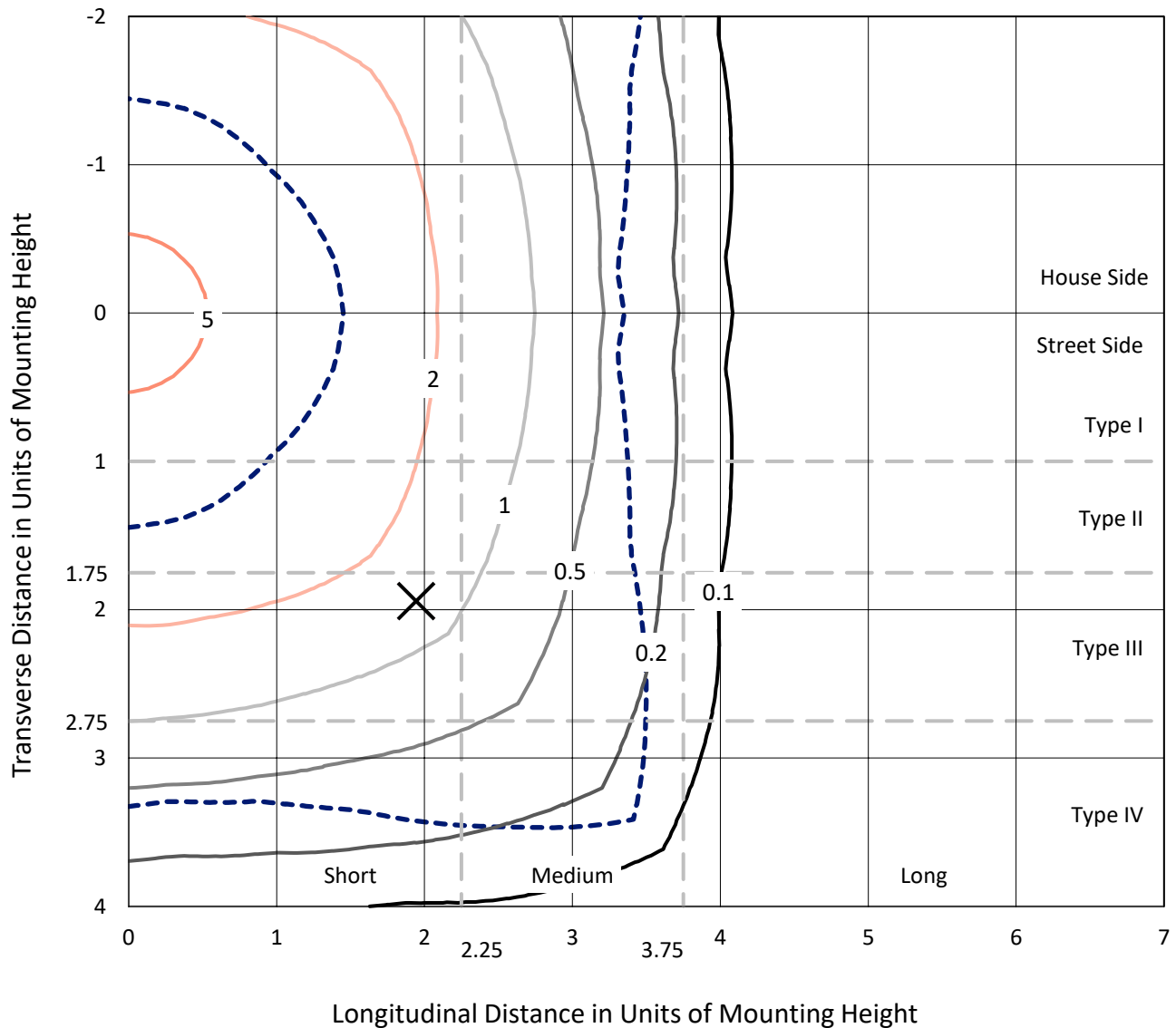


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Iso-Footcandle Lines of Horizontal Illumination

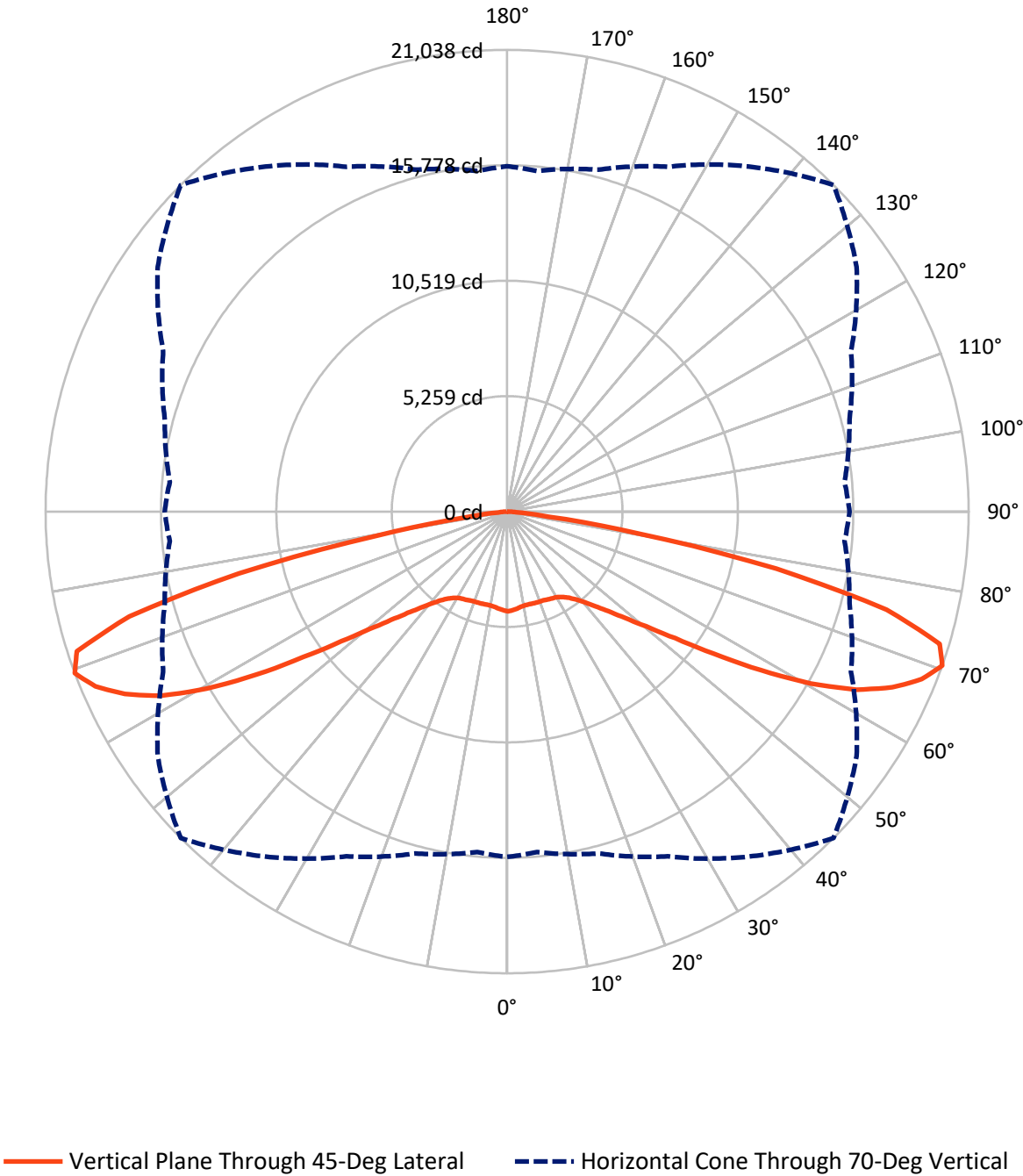
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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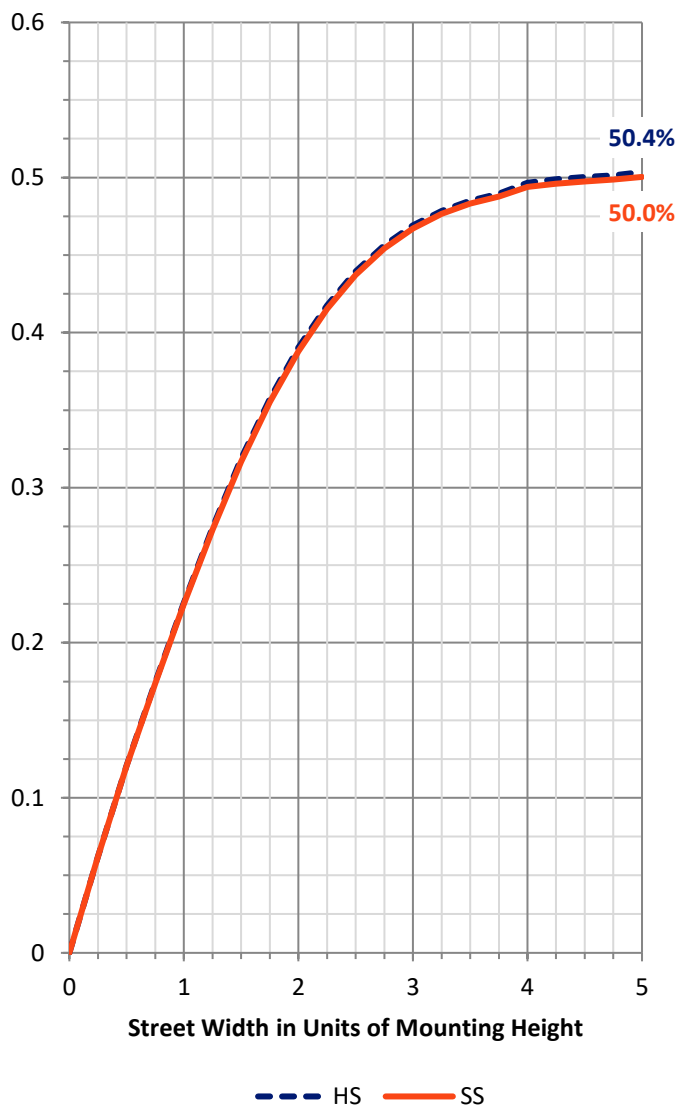
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24907.5	0.0	24907.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24907.5	0.0	24907.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	49815.0	0.0	49815.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.7	0.8
10°-20°	1241.2	2.5
20°-30°	2065.5	4.1
30°-40°	3123.7	6.3
40°-50°	5190.8	10.4
50°-60°	9794.9	19.7
60°-70°	16539.0	33.2
70°-80°	10867.8	21.8
80°-90°	569.4	1.1
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°	49815.0	100.0
0°-180°	49815.0	100.0

Coefficient of Utilization



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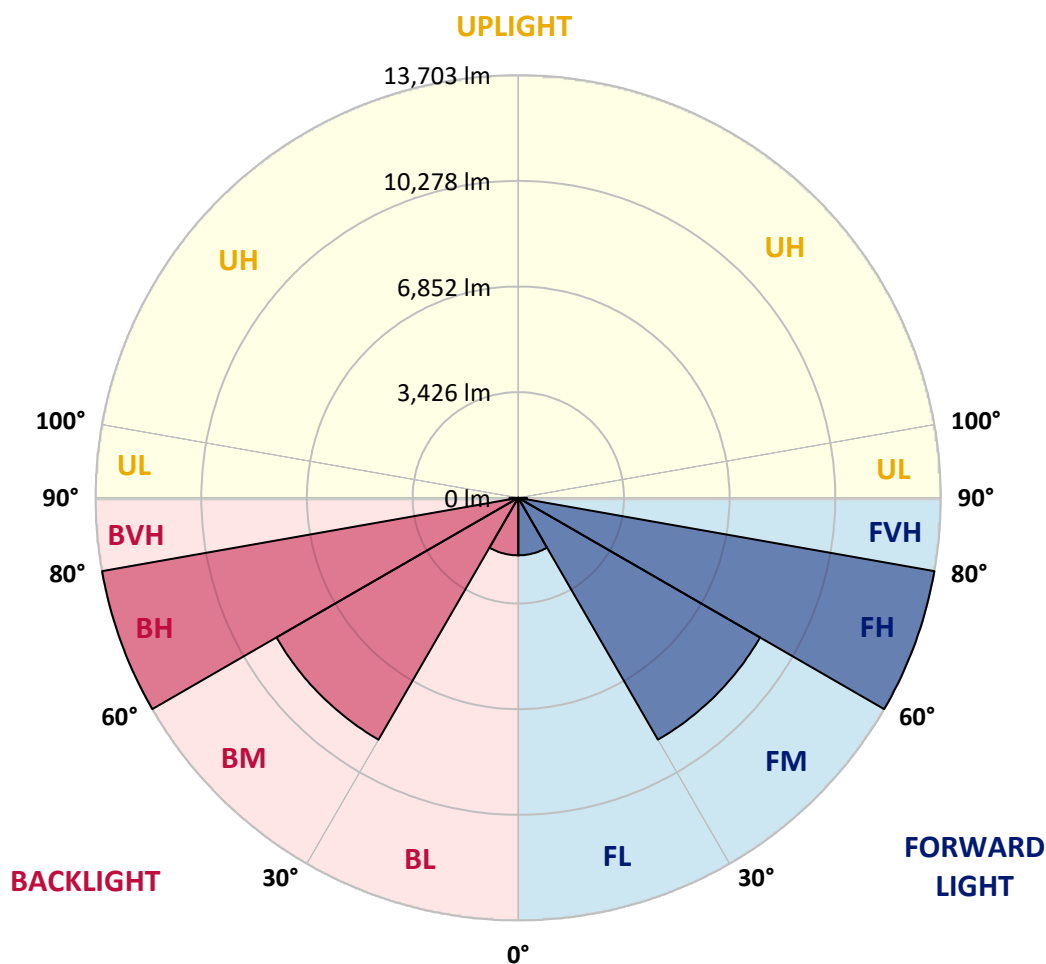
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1864.7	3.7			
FM	(30°-60°)	9054.7	18.2			
FH	(60°-80°)	13703.4	27.5			G5
FVH	(80°-90°)	284.7	0.6			G3/500
BL	(0°-30°)	1864.7	3.7	B3/2500		
BM	(30°-60°)	9054.7	18.2	B5		
BH	(60°-80°)	13703.4	27.5	B5		G5
BVH	(80°-90°)	284.7	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4544.1	4544.1	4544.1	4544.1	4544.1	4544.1	4544.1	4544.1	4544.1	4544.1	4544.1
2.5°	4515.6	4528.6	4523.4	4513.1	4513.1	4505.3	4513.1	4518.2	4526.0	4531.2	4528.6
5°	4456.1	4466.4	4463.9	4456.1	4458.6	4451.0	4456.1	4463.9	4469.0	4471.7	4471.7
7.5°	4404.3	4414.7	4409.4	4396.5	4396.5	4388.7	4391.4	4399.1	4406.9	4409.4	4409.4
10°	4391.4	4401.8	4386.2	4365.5	4357.7	4347.3	4349.9	4357.7	4373.3	4381.1	4381.1
12.5°	4396.5	4404.3	4388.7	4357.7	4349.9	4339.5	4339.5	4347.3	4368.0	4378.4	4381.1
15°	4412.1	4419.8	4396.5	4362.9	4355.1	4347.3	4344.8	4355.1	4378.4	4396.5	4399.1
17.5°	4440.6	4448.3	4412.1	4365.5	4355.1	4357.7	4355.1	4362.9	4399.1	4432.8	4432.8
20°	4466.4	4471.7	4422.5	4365.5	4355.1	4357.7	4355.1	4370.7	4417.2	4463.9	4466.4
22.5°	4474.2	4479.4	4432.8	4383.6	4375.8	4378.4	4375.8	4391.4	4435.4	4482.0	4482.0
25°	4476.8	4484.6	4448.3	4409.4	4422.5	4427.6	4422.5	4425.0	4458.6	4500.2	4497.5
27.5°	4515.6	4526.0	4492.4	4458.6	4466.4	4463.9	4471.7	4479.4	4505.3	4546.7	4536.3
30°	4595.9	4603.7	4575.2	4541.6	4536.3	4518.2	4541.6	4567.4	4595.9	4632.2	4624.4
32.5°	4728.0	4743.5	4707.2	4671.0	4647.7	4637.3	4655.4	4699.5	4738.4	4777.1	4761.6
35°	4948.1	4958.4	4924.7	4857.5	4816.0	4816.0	4831.5	4888.5	4950.6	4999.8	4981.7
37.5°	5258.8	5271.7	5212.1	5131.9	5069.8	5069.8	5090.5	5150.0	5243.2	5313.1	5287.3
40°	5636.8	5654.9	5579.8	5497.0	5437.4	5427.1	5453.0	5520.2	5608.3	5696.3	5667.8
42.5°	6092.5	6113.2	6014.8	5942.3	5895.7	5895.7	5908.7	5970.8	6051.1	6159.8	6152.0
45°	6675.1	6711.3	6576.7	6504.2	6460.2	6470.5	6478.3	6532.6	6605.2	6729.4	6724.3
47.5°	7369.0	7405.2	7262.8	7187.7	7180.0	7229.2	7198.1	7236.9	7275.8	7418.2	7376.7
50°	8156.1	8218.2	8119.8	8114.7	8130.2	8220.9	8148.3	8169.0	8125.1	8215.7	8161.4
52.5°	9119.3	9209.9	9191.8	9222.9	9396.4	9582.8	9417.1	9344.6	9178.9	9207.4	9111.5
55°	10287.1	10424.4	10450.2	10636.6	11030.2	11410.8	11058.7	10766.1	10414.0	10349.2	10248.3
57.5°	11615.4	11724.2	11848.4	12229.1	12964.4	13640.2	12964.4	12317.0	11763.0	11630.9	11537.7
60°	13044.7	13179.2	13298.4	13860.3	14952.9	15903.2	14932.2	13904.2	13171.6	12992.8	12837.5
62.5°	14580.0	14753.5	14836.4	15460.4	16734.4	17868.4	16752.4	15507.0	14694.0	14502.4	14347.0
65°	16053.3	16195.7	16289.0	16954.4	18171.3	19308.0	18254.2	17026.9	16190.6	15939.4	15815.1
67.5°	16739.5	16817.2	17045.0	17798.5	19082.7	20380.0	19300.2	17878.8	16944.1	16503.8	16509.1
70°	15734.9	15576.9	16125.8	17332.4	19191.5	21037.6	19440.0	17296.2	16151.7	15437.1	15608.0
72.5°	12159.1	11887.2	12840.1	14903.7	17948.7	20618.2	18073.0	15020.2	13433.0	11983.1	12342.9
75°	6615.6	6307.4	7622.7	10232.7	14313.4	17871.0	14642.2	10525.3	8487.5	6566.4	6993.6
77.5°	1866.8	1750.3	2811.9	4950.6	8609.3	12547.5	8940.7	5059.4	3334.9	1978.1	2198.3
80°	572.3	554.1	750.9	1491.4	3656.0	6009.7	3513.6	1509.5	955.4	603.3	636.9
82.5°	339.2	310.7	372.9	543.8	932.1	1887.5	906.2	567.0	455.7	305.6	331.4
85°	194.2	181.2	220.1	264.1	313.3	401.3	261.5	269.3	243.4	163.1	170.9
87.5°	80.3	72.5	85.5	82.8	72.5	93.2	69.9	82.8	98.4	64.8	59.6
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)