

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: P968829

Luminaire Tested: **NAV-SB5C-750-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968829
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-SB5C-750-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42988.5 lumens
Efficiency: N/A
Efficacy: 172.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 249.5
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

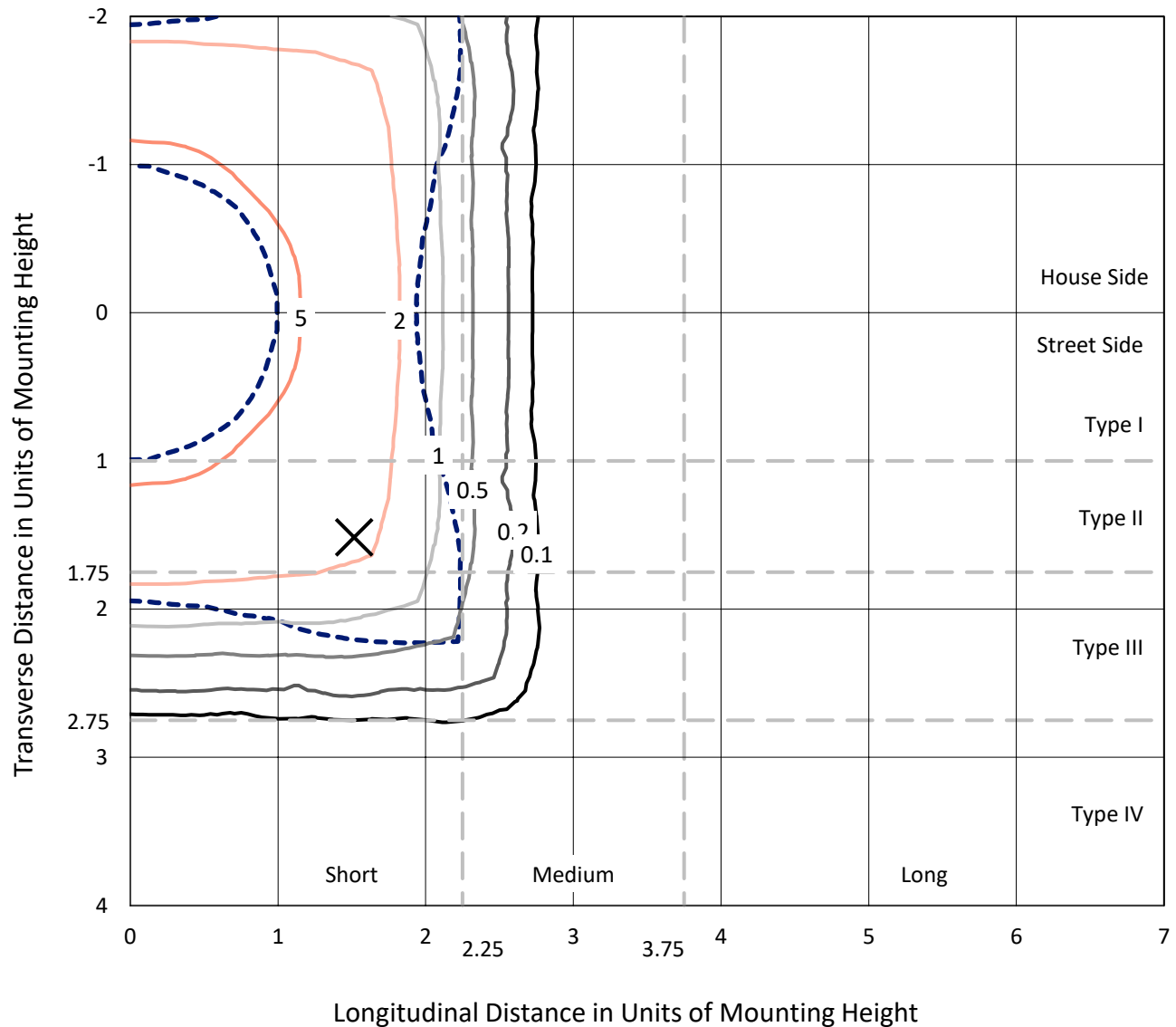


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Iso-Footcandle Lines of Horizontal Illumination

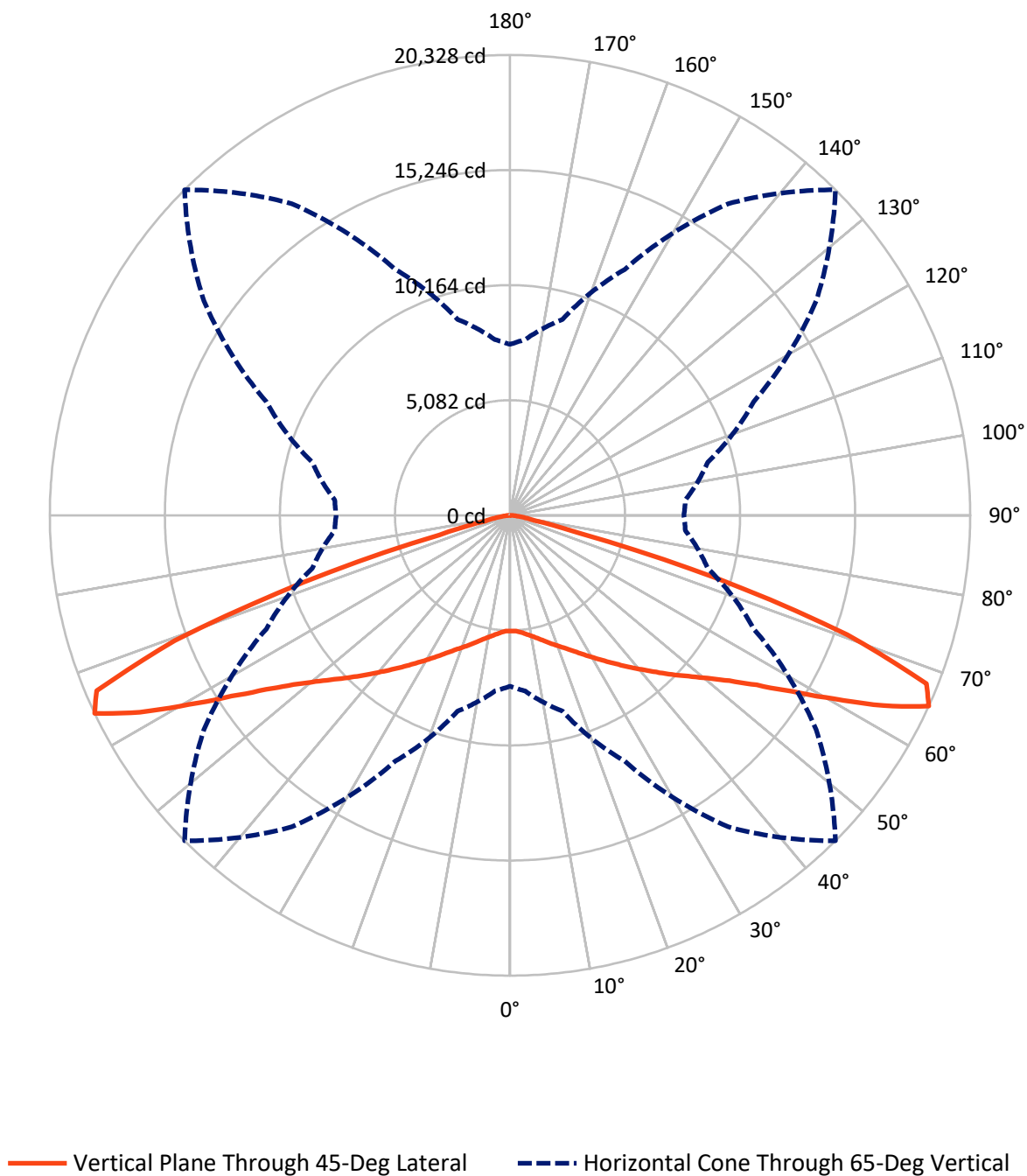
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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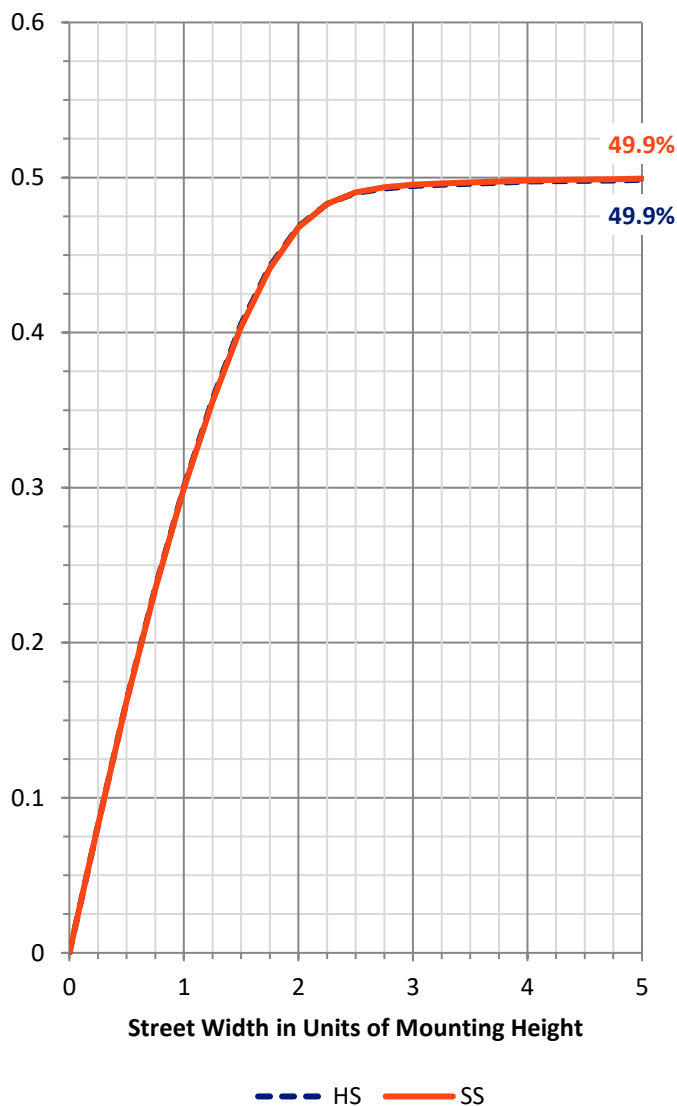
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21494.2	0.0	21494.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21494.2	0.0	21494.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	42988.5	0.0	42988.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.9	1.2
10°-20°	1647.5	3.8
20°-30°	3110.8	7.2
30°-40°	5093.8	11.8
40°-50°	7897.9	18.4
50°-60°	11666.9	27.1
60°-70°	11105.8	25.8
70°-80°	1792.1	4.2
80°-90°	168.9	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°	42988.5	100.0
0°-180°	42988.5	100.0

Coefficient of Utilization



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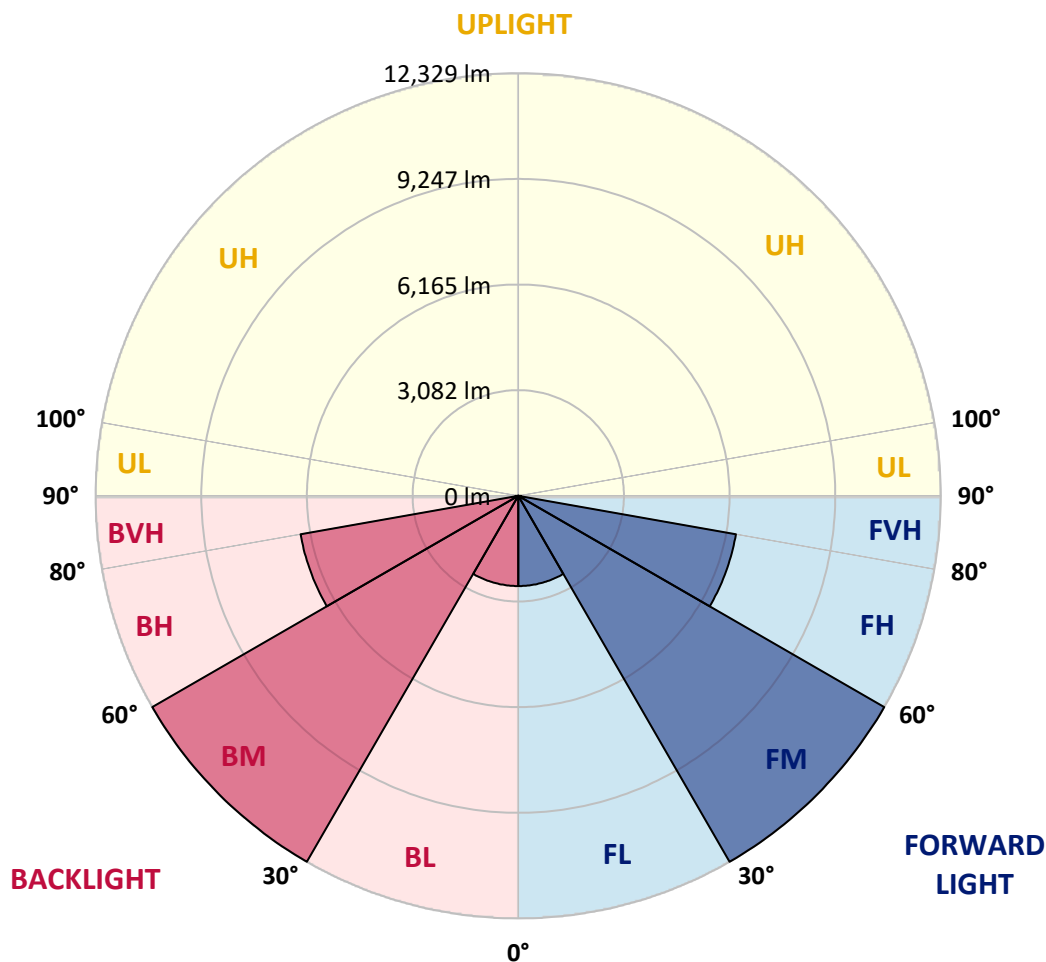
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2631.6	6.1			
FM	(30°-60°)	12329.3	28.7			
FH	(60°-80°)	6448.9	15.0			G3/7500
FVH	(80°-90°)	84.5	0.2			G1/100
BL	(0°-30°)	2631.6	6.1	B4/5000		
BM	(30°-60°)	12329.3	28.7	B5		
BH	(60°-80°)	6448.9	15.0	B5		G3/7500
BVH	(80°-90°)	84.5	0.2			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°	5116.1	5116.1	5116.1	5116.1	5116.1	5116.1	5116.1	5116.1	5116.1	5116.1	5116.1
2.5°	5150.5	5133.3	5146.2	5135.5	5126.8	5118.2	5122.5	5137.6	5144.1	5146.2	5146.2
5°	5219.6	5204.5	5211.0	5211.0	5195.8	5191.5	5193.7	5204.5	5217.5	5217.5	5217.5
7.5°	5331.7	5316.7	5331.7	5323.1	5310.2	5305.9	5303.7	5312.4	5331.7	5331.7	5325.3
10°	5467.7	5450.3	5459.0	5454.6	5439.6	5433.1	5431.0	5443.9	5461.2	5459.0	5454.6
12.5°	5616.5	5597.0	5607.8	5594.9	5590.6	5584.1	5584.1	5581.9	5592.7	5584.1	5588.4
15°	5782.5	5769.6	5773.9	5765.3	5771.8	5767.5	5750.1	5741.5	5745.8	5732.9	5735.1
17.5°	5978.8	5948.6	5963.7	5959.3	5959.3	5968.1	5940.0	5929.2	5937.8	5924.9	5935.7
20°	6205.2	6175.1	6181.6	6173.0	6162.1	6170.8	6136.3	6144.9	6151.3	6142.7	6162.1
22.5°	6453.3	6414.4	6412.3	6416.6	6392.9	6395.1	6371.4	6392.9	6405.8	6382.2	6405.8
25°	6707.8	6666.8	6694.9	6684.1	6653.9	6660.3	6643.1	6664.7	6675.5	6645.3	6679.8
27.5°	6977.4	6949.4	6975.2	6981.8	6945.1	6970.9	6945.1	6964.5	6975.2	6930.0	6964.5
30°	7292.4	7264.3	7288.1	7305.3	7262.1	7303.1	7281.5	7294.5	7296.7	7242.8	7275.0
32.5°	7635.2	7592.2	7652.5	7661.2	7613.7	7663.3	7635.2	7652.5	7663.3	7590.0	7639.6
35°	8053.7	7999.8	8068.8	8058.0	8017.0	8058.0	8032.1	8058.0	8083.9	7995.5	8049.4
37.5°	8504.5	8448.4	8521.7	8502.4	8463.5	8491.5	8476.4	8493.7	8534.7	8439.7	8498.0
40°	9000.5	8931.5	9030.8	8996.2	8959.6	8955.2	8963.9	8974.7	9028.6	8922.9	8957.4
42.5°	9531.2	9457.8	9606.6	9552.7	9500.9	9466.5	9494.5	9516.0	9567.9	9449.2	9511.7
45°	10137.2	10053.1	10247.2	10182.6	10100.6	10029.4	10074.6	10107.0	10182.6	10040.2	10113.5
47.5°	10805.9	10710.9	10918.0	10898.6	10764.9	10609.6	10713.1	10805.9	10861.9	10689.4	10747.6
50°	11459.4	11386.0	11657.8	11681.5	11517.6	11299.8	11444.2	11584.4	11599.6	11373.1	11401.2
52.5°	12071.9	11998.5	12393.3	12542.1	12395.4	12136.6	12289.7	12432.1	12317.8	12024.5	12033.1
55°	12561.5	12501.1	13003.7	13387.6	13437.2	13223.7	13314.2	13309.9	12934.7	12483.9	12499.0
57.5°	12680.2	12671.6	13305.6	14118.8	14636.4	14662.3	14483.2	14026.0	13217.2	12611.1	12572.3
60°	12140.9	12194.8	13066.2	14500.6	15880.9	16454.6	15680.3	14375.4	12895.8	12054.6	11955.5
62.5°	10527.6	10669.9	11720.4	14034.7	16886.1	18516.6	16640.2	13844.9	11575.8	10478.0	10413.3
65°	7544.7	7792.8	8953.1	11977.0	16795.4	20328.4	16502.1	11880.0	9039.4	7773.3	7680.5
67.5°	3422.9	3675.2	4661.0	8200.4	14599.8	19836.6	14565.2	8286.6	4893.9	3688.3	3634.3
70°	1240.1	1283.3	1600.4	3282.8	9330.6	15805.4	9729.6	3306.4	1701.8	1367.5	1350.2
72.5°	750.6	757.1	823.9	1175.5	3241.8	9595.8	3379.8	1214.3	841.2	746.3	759.2
75°	476.6	472.3	586.7	718.2	1149.6	3237.5	1205.7	718.2	584.6	532.7	537.1
77.5°	343.0	353.7	420.6	537.1	724.7	1097.9	711.8	513.3	420.6	345.1	351.6
80°	256.7	263.1	306.3	418.4	509.0	683.7	452.9	379.6	317.0	215.7	222.1
82.5°	185.5	185.5	200.6	304.1	310.6	368.8	245.9	267.4	209.2	153.1	153.1
85°	110.0	107.8	125.0	181.2	161.7	135.9	112.1	163.9	131.6	94.9	92.8
87.5°	38.8	41.0	38.8	51.8	43.2	36.7	34.5	45.3	36.7	32.4	30.2
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)