

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: P969480

Luminaire Tested: **NAV-SB5D-835-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969480
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-SB5D-835-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51211.1 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

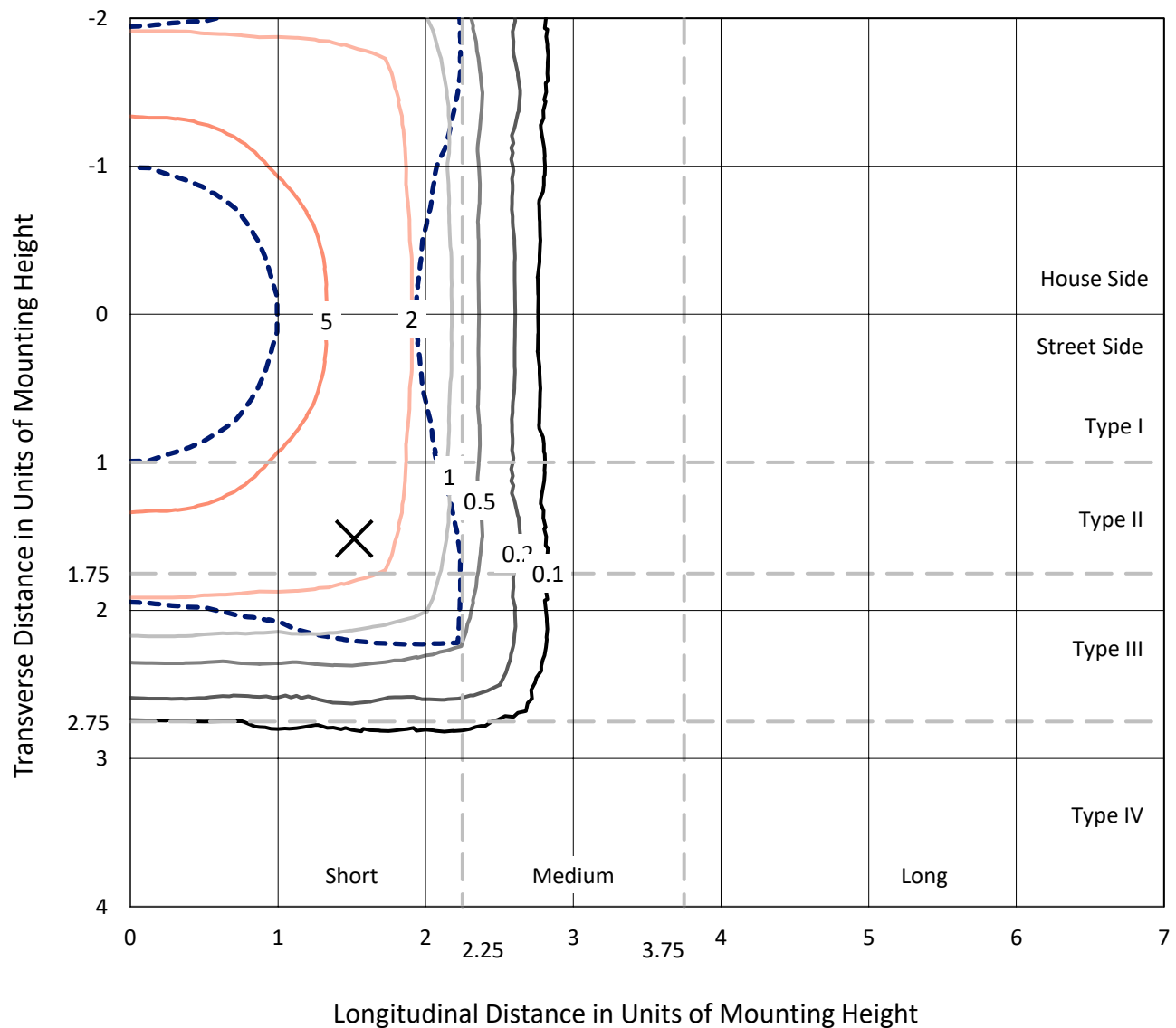
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

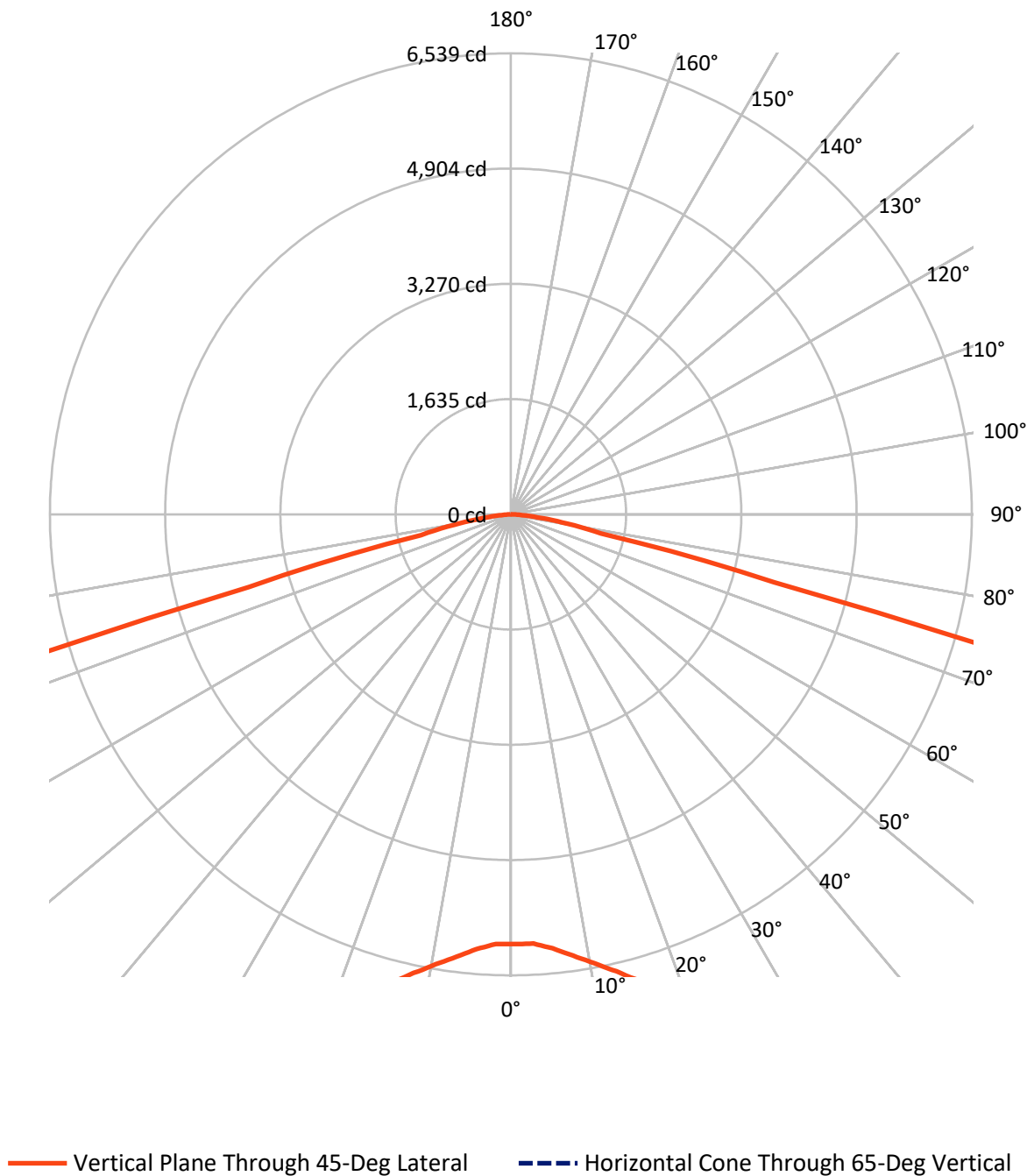
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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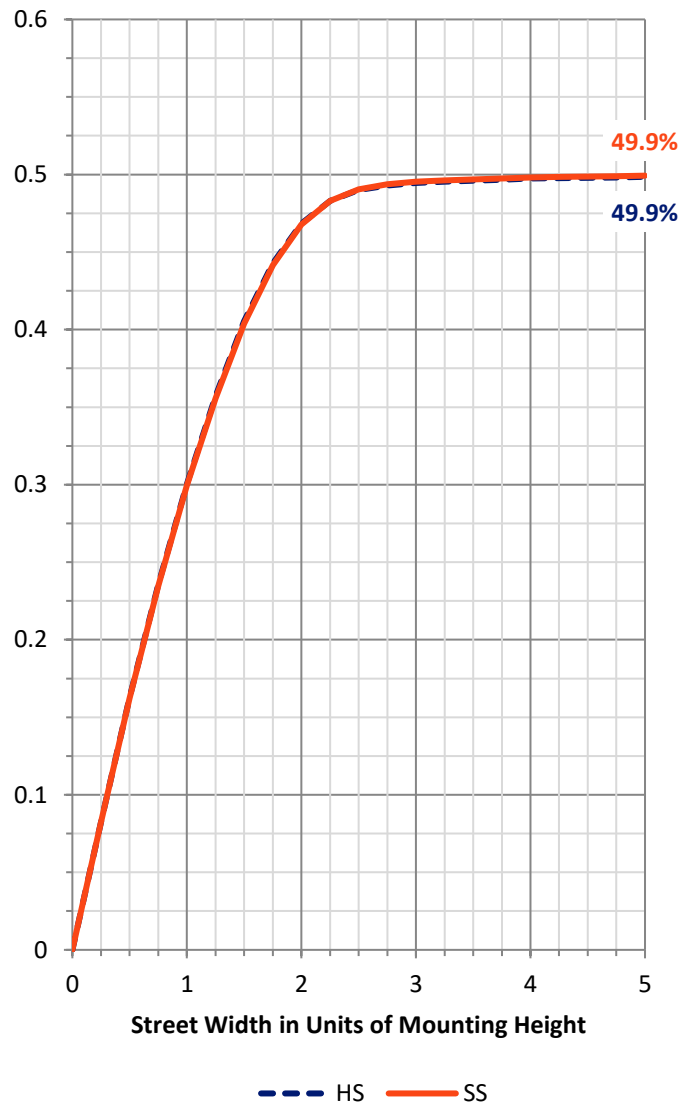
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25605.5	0.0	25605.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25605.5	0.0	25605.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	51211.1	0.0	51211.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.5	1.2
10°-20°	1962.7	3.8
20°-30°	3705.8	7.2
30°-40°	6068.0	11.8
40°-50°	9408.6	18.4
50°-60°	13898.4	27.1
60°-70°	13230.0	25.8
70°-80°	2134.8	4.2
80°-90°	201.2	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°	51211.1	100.0
0°-180°	51211.1	100.0

Coefficient of Utilization



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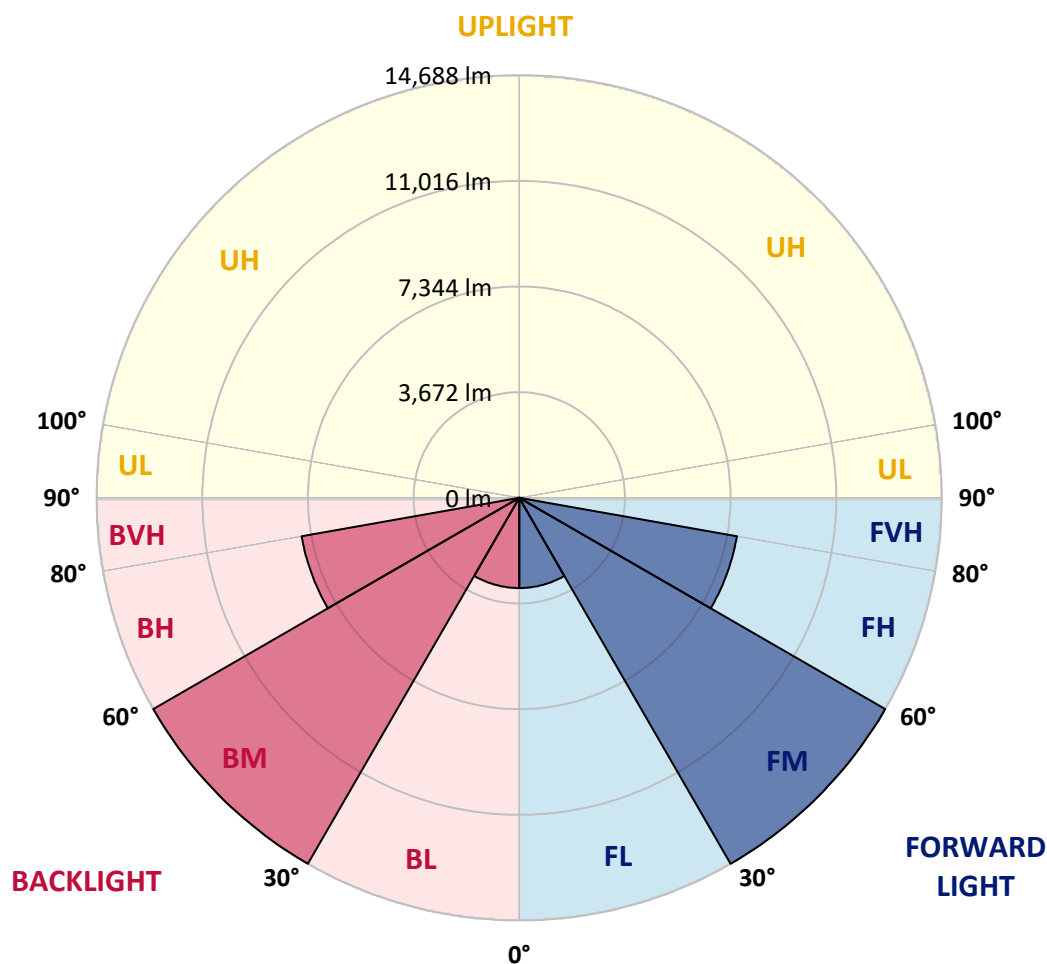
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3135.0	6.1			
FM	(30°-60°)	14687.5	28.7			
FH	(60°-80°)	7682.4	15.0			G4/12000
FVH	(80°-90°)	100.6	0.2			G2/225
BL	(0°-30°)	3135.0	6.1	B4/5000		
BM	(30°-60°)	14687.5	28.7	B5		
BH	(60°-80°)	7682.4	15.0	B5		G4/12000
BVH	(80°-90°)	100.6	0.2			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°	6094.6	6094.6	6094.6	6094.6	6094.6	6094.6	6094.6	6094.6	6094.6	6094.6	6094.6
2.5°	6135.8	6115.2	6130.6	6117.7	6107.5	6097.2	6102.3	6120.3	6128.1	6130.6	6130.6
5°	6218.0	6200.0	6207.7	6207.7	6189.7	6184.5	6187.1	6200.0	6215.4	6215.4	6215.4
7.5°	6351.6	6333.6	6351.6	6341.3	6325.9	6320.8	6318.2	6328.5	6351.6	6351.6	6343.8
10°	6513.5	6492.9	6503.1	6498.0	6480.0	6472.4	6469.8	6485.2	6505.8	6503.1	6498.0
12.5°	6690.7	6667.6	6680.4	6665.1	6659.9	6652.1	6652.1	6649.6	6662.5	6652.1	6657.4
15°	6888.6	6873.1	6878.3	6868.0	6875.7	6870.6	6850.1	6839.7	6844.8	6829.5	6832.0
17.5°	7122.4	7086.4	7104.4	7099.3	7099.3	7109.5	7076.2	7063.3	7073.5	7058.2	7071.0
20°	7392.2	7356.2	7363.9	7353.7	7340.7	7351.1	7310.0	7320.2	7327.9	7317.7	7340.7
22.5°	7687.7	7641.4	7638.8	7643.9	7615.7	7618.3	7590.0	7615.7	7631.1	7602.8	7631.1
25°	7990.8	7942.0	7975.4	7962.6	7926.6	7934.3	7913.7	7939.4	7952.3	7916.4	7957.5
27.5°	8312.0	8278.6	8309.5	8317.2	8273.5	8304.3	8273.5	8296.7	8309.5	8255.5	8296.7
30°	8687.2	8653.8	8682.1	8702.6	8651.2	8700.0	8674.3	8689.7	8692.3	8628.0	8666.6
32.5°	9095.6	9044.3	9116.2	9126.5	9070.0	9129.1	9095.6	9116.2	9129.1	9041.7	9100.9
35°	9594.2	9529.9	9612.1	9599.3	9550.4	9599.3	9568.5	9599.3	9630.1	9524.8	9589.0
37.5°	10131.2	10064.4	10151.7	10128.6	10082.3	10115.7	10097.8	10118.3	10167.2	10054.1	10123.4
40°	10722.1	10639.9	10758.1	10717.0	10673.3	10668.2	10678.4	10691.3	10755.5	10629.7	10670.8
42.5°	11354.2	11266.8	11444.1	11379.9	11318.3	11277.2	11310.6	11336.2	11397.9	11256.6	11331.1
45°	12076.2	11976.0	12207.2	12130.2	12032.5	11947.7	12001.7	12040.3	12130.2	11960.6	12048.0
47.5°	12872.7	12759.7	13006.3	12983.2	12823.9	12638.9	12762.3	12872.7	12939.5	12734.0	12803.4
50°	13651.3	13563.9	13887.6	13915.9	13720.6	13461.1	13633.2	13800.3	13818.2	13548.4	13581.9
52.5°	14381.0	14293.6	14763.8	14941.1	14766.4	14458.0	14640.5	14810.0	14673.9	14324.5	14334.7
55°	14964.2	14892.2	15490.9	15948.3	16007.4	15753.0	15861.0	15855.8	15408.7	14871.7	14889.7
57.5°	15105.5	15095.3	15850.7	16819.3	17436.0	17466.8	17253.5	16708.8	15745.3	15023.3	14977.1
60°	14463.2	14527.4	15565.4	17274.1	18918.5	19602.0	18679.6	17125.1	15362.5	14360.4	14242.2
62.5°	12541.3	12710.8	13962.1	16719.1	20115.8	22058.3	19823.0	16493.0	13790.0	12482.1	12405.1
65°	8987.8	9283.2	10665.6	14267.9	20008.0	24216.6	19658.5	14152.3	10768.3	9260.2	9149.7
67.5°	4077.7	4378.3	5552.5	9768.9	17392.3	23630.9	17351.2	9871.7	5830.0	4393.7	4329.5
70°	1477.4	1528.8	1906.5	3910.7	11115.2	18828.6	11590.6	3938.9	2027.2	1629.0	1608.4
72.5°	894.1	901.9	981.5	1400.4	3861.8	11431.3	4026.3	1446.6	1002.0	889.0	904.5
75°	567.8	562.7	698.8	855.6	1369.5	3856.7	1436.3	855.6	696.3	634.7	639.8
77.5°	408.6	421.4	501.0	639.8	863.4	1307.8	847.9	611.5	501.0	411.1	418.8
80°	305.8	313.4	364.9	498.5	606.4	814.5	539.6	452.2	377.7	257.0	264.7
82.5°	221.0	221.0	238.9	362.2	370.0	439.4	292.9	318.6	249.3	182.4	182.4
85°	131.0	128.4	149.0	215.9	192.7	161.8	133.7	195.3	156.7	113.1	110.5
87.5°	46.2	48.8	46.2	61.7	51.4	43.7	41.1	53.9	43.7	38.5	36.0
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)