

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: P968895

Luminaire Tested: **NAV-SB5C-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-827-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34721.9 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

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

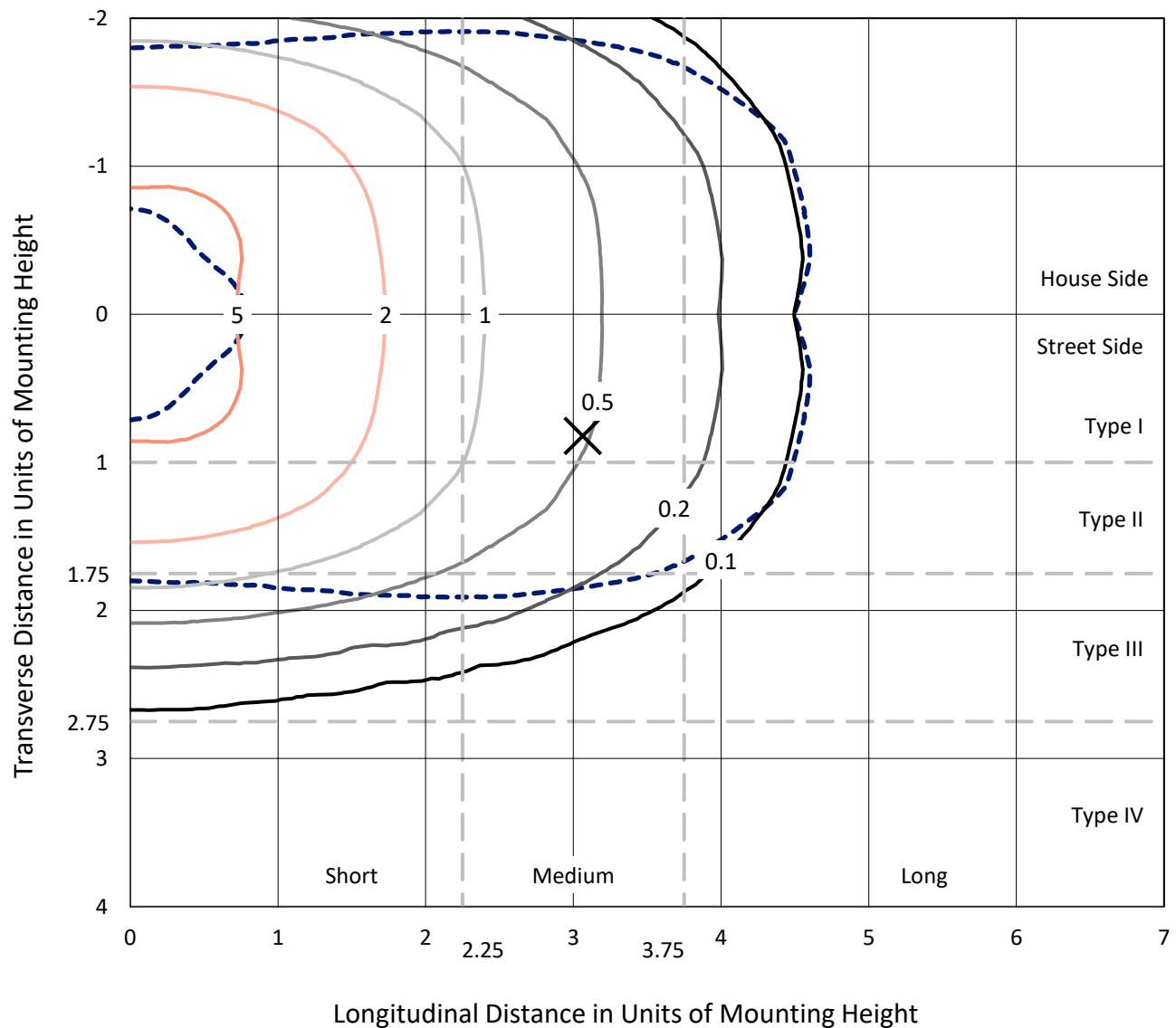


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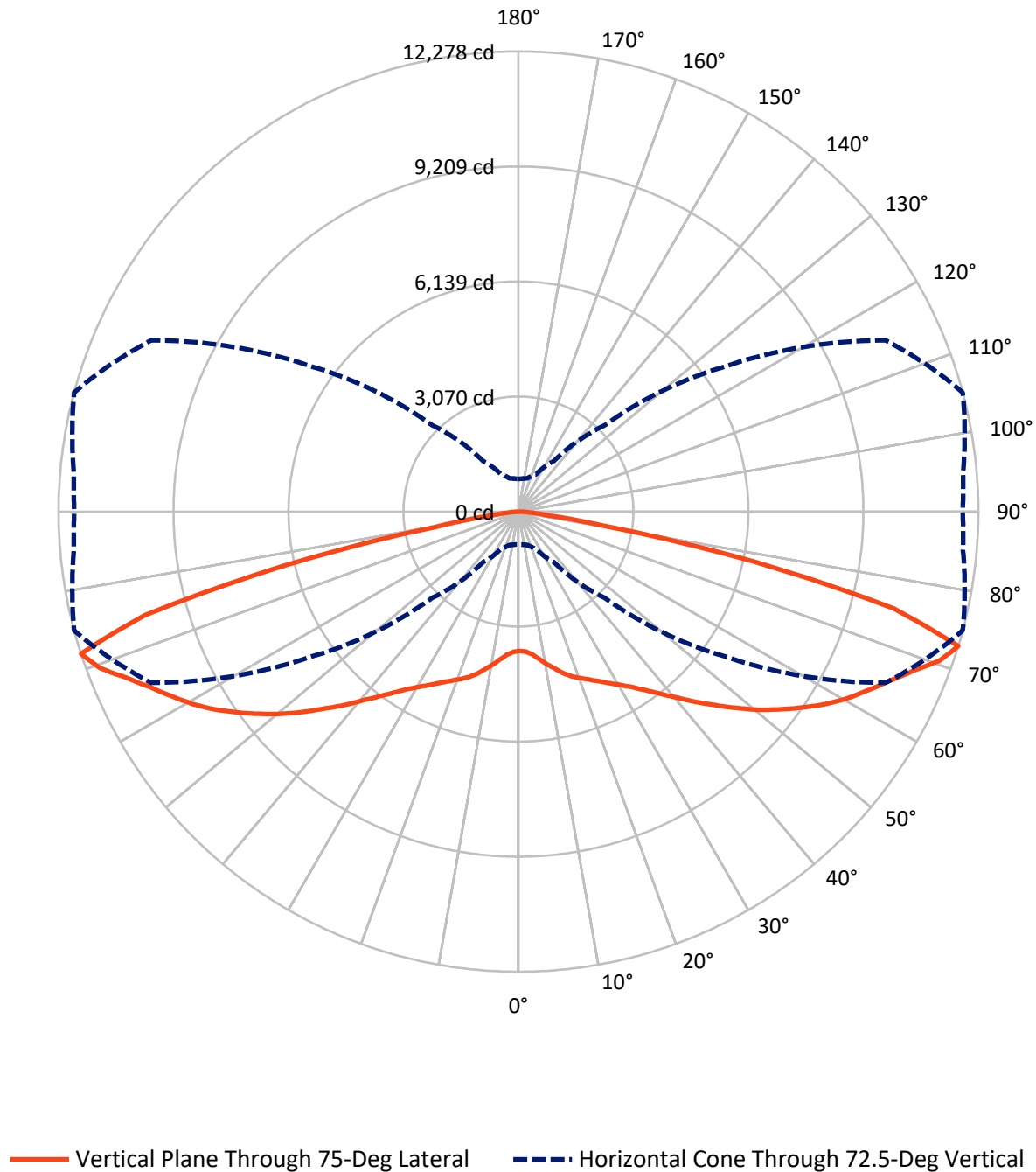
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



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Luminous Intensity Polar Plot



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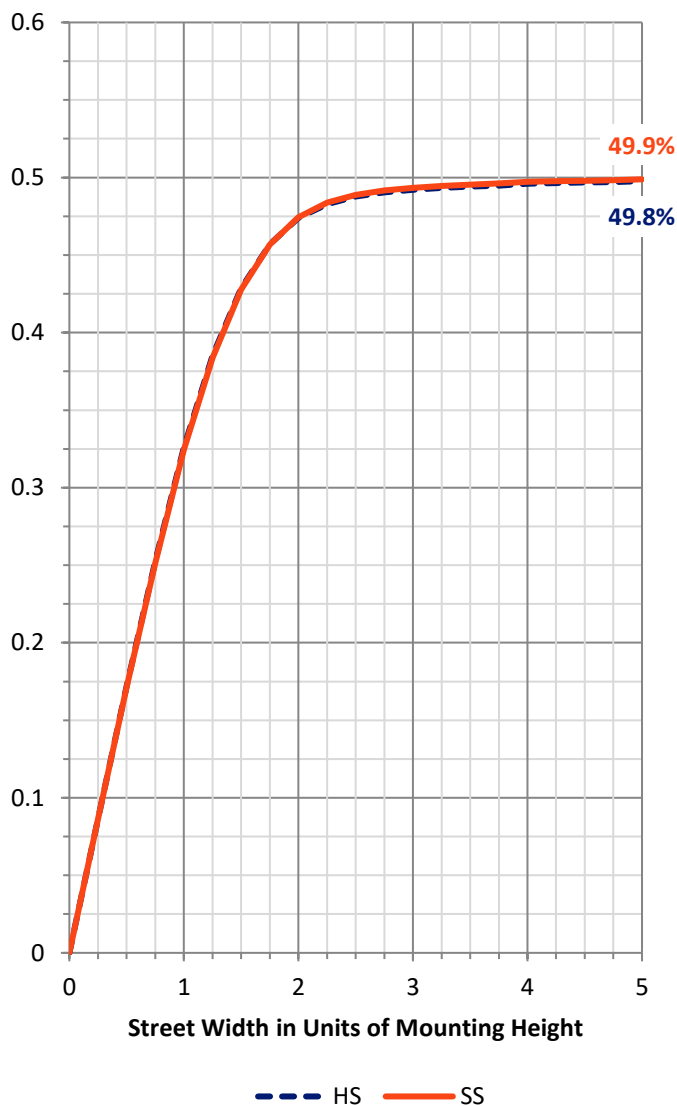
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17360.9	0.0	17360.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17360.9	0.0	17360.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	34721.9	0.0	34721.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.3	1.0
10°-20°	1201.7	3.5
20°-30°	2322.0	6.7
30°-40°	3920.8	11.3
40°-50°	6217.9	17.9
50°-60°	8325.1	24.0
60°-70°	7922.8	22.8
70°-80°	4134.3	11.9
80°-90°	312.9	0.9
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°	34721.9	100.0
0°-180°	34721.9	100.0

Coefficient of Utilization



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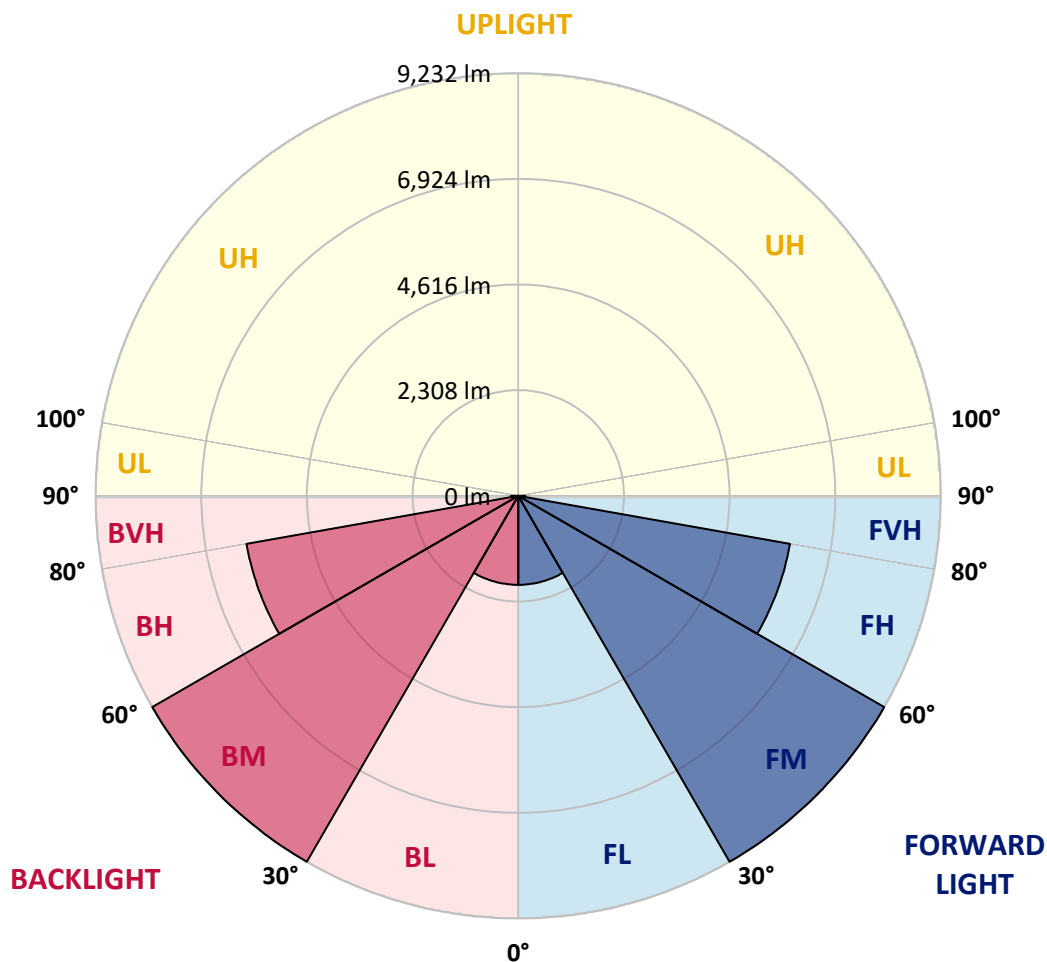
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1944.0	5.6			
FM	(30°-60°)	9231.9	26.6			
FH	(60°-80°)	6028.5	17.4			G3/7500
FVH	(80°-90°)	156.5	0.5			G2/225
BL	(0°-30°)	1944.0	5.6	B3/2500		
BM	(30°-60°)	9231.9	26.6	B5		
BH	(60°-80°)	6028.5	17.4	B5		G5
BVH	(80°-90°)	156.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3719.3	3719.3	3719.3	3719.3	3719.3	3719.3	3719.3	3719.3	3719.3	3719.3	3719.3
2.5°	3719.3	3715.8	3719.3	3722.9	3721.1	3721.1	3730.0	3735.3	3746.0	3744.1	3742.4
5°	3694.5	3692.8	3706.9	3722.9	3735.3	3756.5	3783.2	3802.6	3827.5	3832.8	3832.8
7.5°	3682.1	3676.8	3701.6	3730.0	3768.9	3822.1	3873.6	3926.8	3969.3	3983.5	3987.0
10°	3690.9	3692.8	3726.4	3779.6	3841.7	3916.1	3988.8	4079.2	4139.5	4153.7	4167.9
12.5°	3731.7	3728.2	3784.9	3870.0	3955.2	4049.1	4134.1	4233.5	4299.1	4332.7	4346.9
15°	3806.2	3799.1	3878.9	4004.8	4128.8	4238.8	4307.9	4401.9	4478.1	4520.7	4536.5
17.5°	3894.8	3898.4	4002.9	4166.1	4329.2	4453.3	4518.9	4566.7	4625.2	4662.4	4680.2
20°	4050.8	4058.0	4174.9	4368.1	4554.3	4696.1	4749.3	4731.6	4747.6	4775.9	4797.2
22.5°	4260.0	4263.6	4394.8	4604.0	4798.9	4955.0	4990.4	4917.7	4873.5	4892.9	4907.1
25°	4502.9	4526.0	4657.2	4871.6	5072.0	5220.9	5236.8	5126.9	5017.1	5022.3	5031.2
27.5°	4798.9	4820.3	4953.2	5165.9	5369.8	5499.2	5497.5	5350.3	5189.0	5148.2	5160.7
30°	5119.9	5142.9	5279.4	5499.2	5689.0	5802.4	5777.5	5602.0	5371.6	5295.4	5304.2
32.5°	5501.0	5515.2	5653.5	5873.2	6048.8	6139.2	6087.8	5871.5	5584.3	5497.5	5518.7
35°	5961.9	5983.2	6086.0	6293.4	6447.7	6522.2	6435.3	6179.9	5857.4	5759.8	5774.0
37.5°	6488.5	6474.3	6591.3	6775.7	6903.3	6949.4	6830.6	6527.4	6169.4	6054.2	6075.4
40°	7038.1	7030.9	7158.6	7335.8	7405.0	7433.3	7257.8	6926.3	6529.2	6405.1	6445.9
42.5°	7536.2	7530.9	7702.8	7899.6	7982.9	7951.0	7729.4	7350.1	6945.8	6804.1	6839.4
45°	7935.0	7928.0	8138.9	8415.5	8578.5	8525.4	8227.6	7818.1	7367.8	7220.6	7254.3
47.5°	8241.7	8245.3	8472.2	8814.4	9099.7	9119.3	8736.4	8294.9	7832.2	7665.6	7715.2
50°	8463.3	8474.0	8716.9	9096.3	9486.3	9658.2	9255.8	8784.2	8312.6	8124.8	8181.4
52.5°	8518.3	8537.8	8830.3	9275.3	9734.4	10062.4	9784.0	9254.0	8768.3	8589.2	8635.3
55°	8225.8	8264.8	8635.3	9261.1	9886.9	10328.3	10248.6	9730.9	9227.5	9043.1	9094.4
57.5°	7553.9	7608.9	8041.4	8858.7	9853.2	10511.0	10608.4	10188.3	9686.6	9509.3	9550.0
60°	6612.6	6678.2	7093.0	7984.6	9378.1	10578.3	10861.9	10633.2	10108.6	9936.6	9973.8
62.5°	5192.5	5277.6	5774.0	6819.9	8374.7	10264.6	11078.2	11035.7	10487.9	10273.4	10298.2
65°	3331.0	3421.6	3944.5	5180.1	7036.2	9303.6	11145.5	11427.5	10888.6	10589.0	10626.2
67.5°	2008.6	2049.4	2308.2	3139.7	5142.9	7855.3	10574.7	11861.8	11356.6	10984.3	11012.6
70°	1285.2	1308.3	1462.6	1843.7	2907.4	5731.5	9160.0	11943.4	11923.8	11390.2	11386.7
72.5°	872.2	879.3	920.0	1092.0	1645.1	3256.6	6756.2	10812.3	12278.4	11913.2	11856.5
75°	638.2	677.2	742.8	773.0	934.3	1627.4	3871.8	7596.5	10347.8	10507.4	10121.0
77.5°	475.1	476.9	567.3	602.8	666.6	866.9	1638.1	4240.5	6424.6	6745.5	6016.9
80°	402.4	381.2	379.4	485.7	501.7	540.7	732.2	1464.3	2301.1	1395.2	1054.8
82.5°	335.1	312.0	281.9	379.4	342.1	331.5	317.3	595.6	732.2	359.9	306.7
85°	234.0	223.3	212.7	248.2	195.1	166.7	152.4	278.3	308.4	152.4	134.7
87.5°	101.1	104.6	106.4	109.9	81.6	58.5	58.5	78.0	78.0	60.3	44.3
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)