

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: P966849

Luminaire Tested: **NAV-SB4C-835-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966849
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-SB4C-835-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29384.7 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 200.7
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

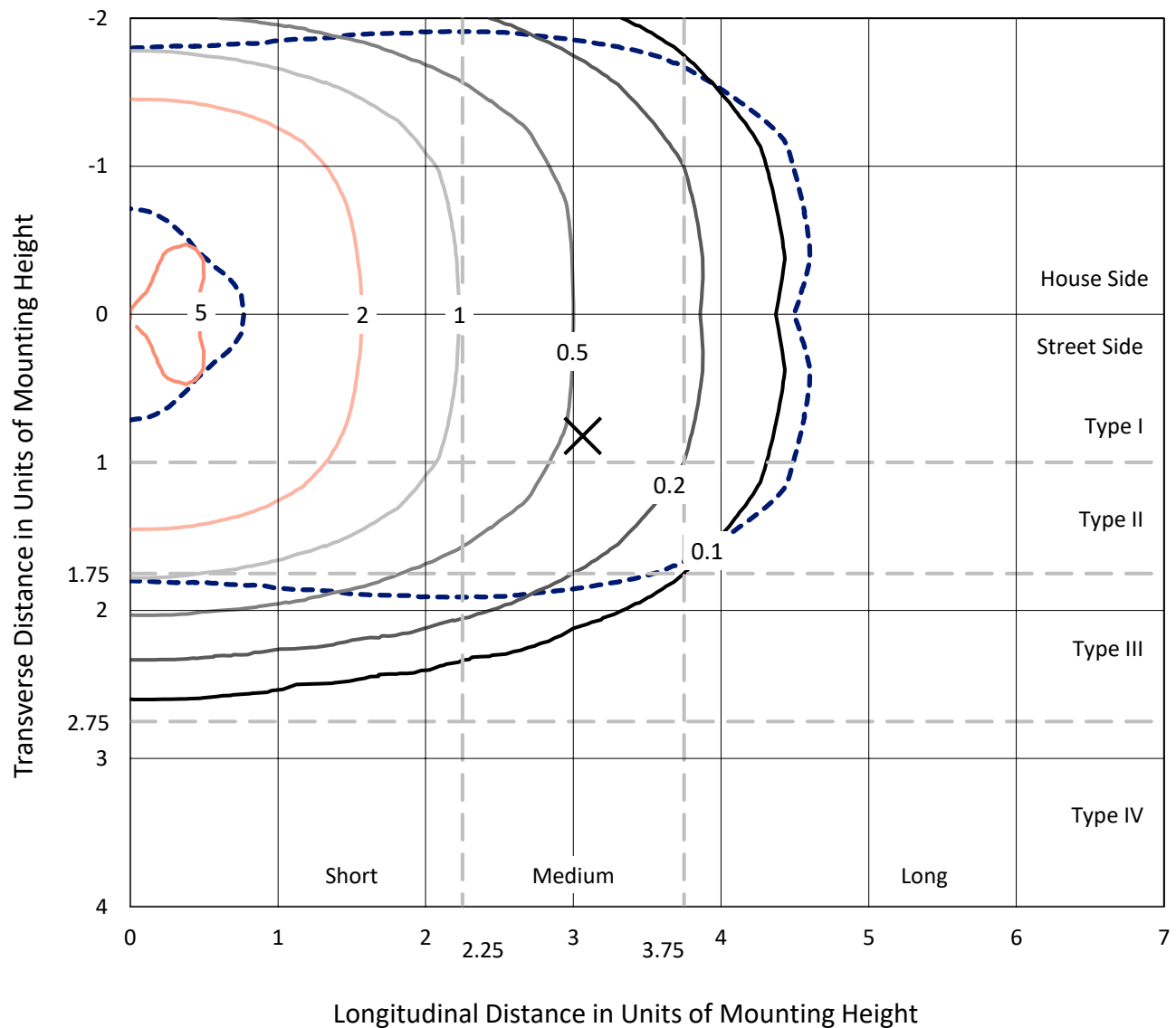


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Iso-Footcandle Lines of Horizontal Illumination

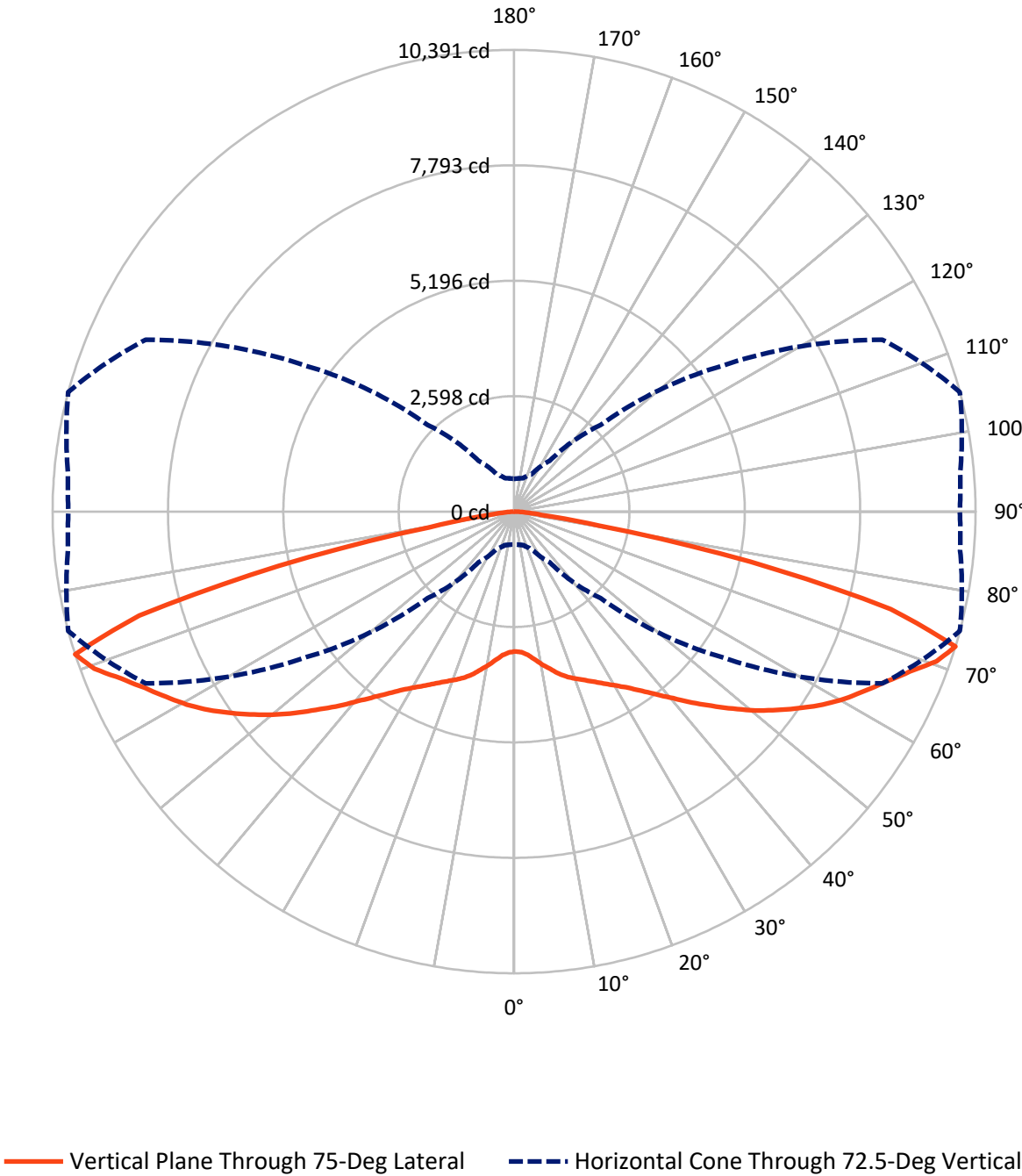
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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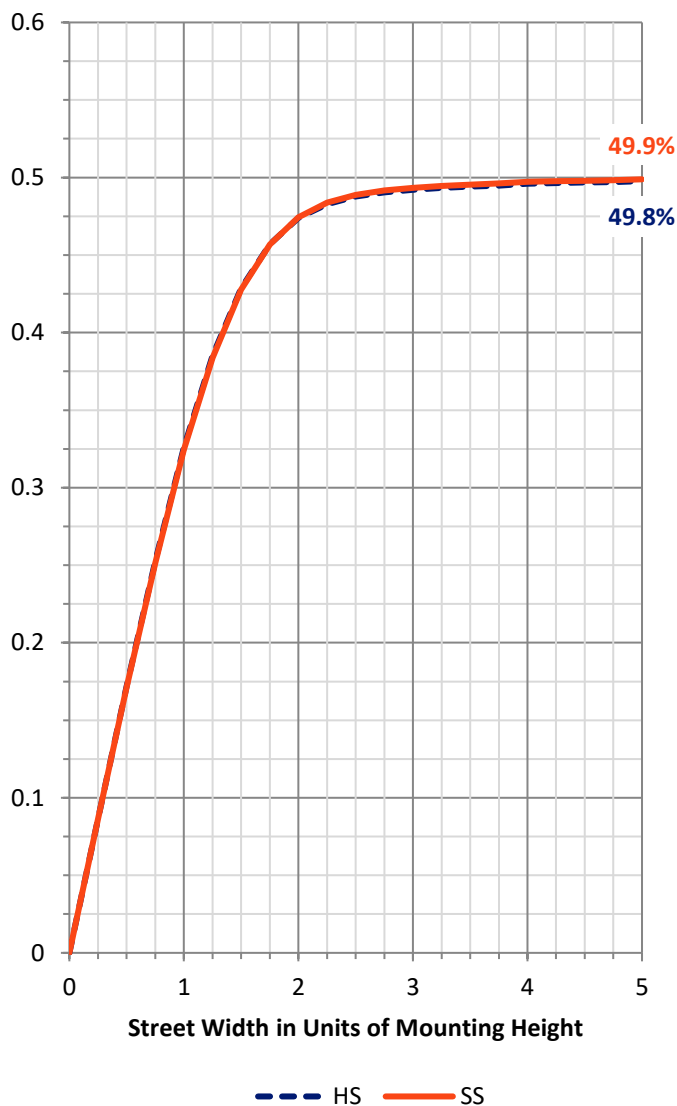
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14692.4	0.0	14692.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14692.4	0.0	14692.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	29384.7	0.0	29384.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.3	1.0
10°-20°	1017.0	3.5
20°-30°	1965.1	6.7
30°-40°	3318.1	11.3
40°-50°	5262.2	17.9
50°-60°	7045.4	24.0
60°-70°	6705.0	22.8
70°-80°	3498.8	11.9
80°-90°	264.8	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°	29384.7	100.0
0°-180°	29384.7	100.0

Coefficient of Utilization



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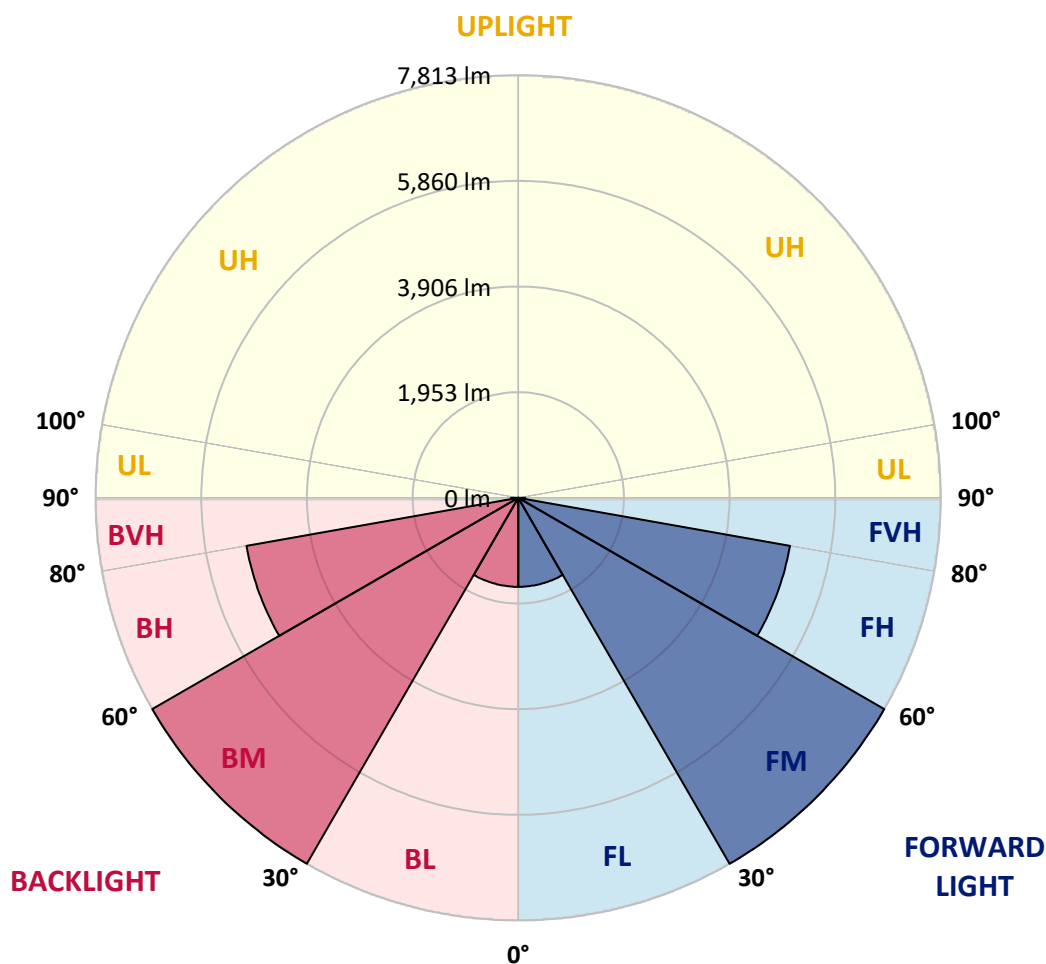
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1645.2	5.6			
FM	(30°-60°)	7812.9	26.6			
FH	(60°-80°)	5101.9	17.4			G3/7500
FVH	(80°-90°)	132.4	0.5			G2/225
BL	(0°-30°)	1645.2	5.6	B3/2500		
BM	(30°-60°)	7812.9	26.6	B4/8500		
BH	(60°-80°)	5101.9	17.4	B5		G5
BVH	(80°-90°)	132.4	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°	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7
2.5°	3147.7	3144.6	3147.7	3150.6	3149.1	3149.1	3156.6	3161.1	3170.1	3168.6	3167.1
5°	3126.7	3125.1	3137.1	3150.6	3161.1	3179.1	3201.6	3218.2	3239.1	3243.6	3243.6
7.5°	3116.1	3111.6	3132.6	3156.6	3189.6	3234.7	3278.2	3323.2	3359.1	3371.1	3374.2
10°	3123.6	3125.1	3153.6	3198.6	3251.2	3314.1	3375.6	3452.2	3503.2	3515.2	3527.2
12.5°	3158.1	3155.2	3203.1	3275.2	3347.1	3426.7	3498.7	3582.7	3638.2	3666.7	3678.7
15°	3221.2	3215.1	3282.7	3389.2	3494.2	3587.2	3645.7	3725.3	3789.7	3825.8	3839.2
17.5°	3296.2	3299.2	3387.6	3525.7	3663.8	3768.7	3824.3	3864.8	3914.3	3945.7	3960.8
20°	3428.2	3434.2	3533.2	3696.8	3854.3	3974.3	4019.3	4004.3	4017.8	4041.8	4059.8
22.5°	3605.2	3608.2	3719.2	3896.2	4061.4	4193.4	4223.3	4161.8	4124.3	4140.8	4152.8
25°	3810.7	3830.2	3941.3	4122.9	4292.4	4418.4	4431.9	4338.8	4245.9	4250.4	4257.8
27.5°	4061.4	4079.3	4191.8	4371.8	4544.4	4653.9	4652.5	4527.9	4391.4	4356.9	4367.3
30°	4332.9	4352.4	4467.9	4653.9	4814.4	4910.5	4889.5	4740.9	4545.9	4481.4	4488.9
32.5°	4655.4	4667.4	4784.5	4970.5	5119.1	5195.5	5152.1	4969.0	4726.0	4652.5	4670.4
35°	5045.5	5063.5	5150.5	5326.1	5456.6	5519.6	5446.1	5230.1	4957.0	4874.5	4886.5
37.5°	5491.1	5479.1	5578.2	5734.2	5842.2	5881.1	5780.7	5524.1	5221.0	5123.6	5141.5
40°	5956.2	5950.2	6058.2	6208.2	6266.7	6290.7	6142.2	5861.7	5525.6	5420.6	5455.0
42.5°	6377.8	6373.2	6518.8	6685.4	6755.9	6728.8	6541.3	6220.2	5878.2	5758.1	5788.2
45°	6715.3	6709.3	6887.9	7121.9	7260.0	7215.0	6962.9	6616.3	6235.3	6110.7	6139.2
47.5°	6974.9	6977.9	7170.0	7459.4	7701.0	7717.5	7393.4	7019.9	6628.4	6487.3	6529.4
50°	7162.4	7171.4	7376.9	7698.1	8028.1	8173.7	7833.0	7434.0	7034.9	6875.9	6923.9
52.5°	7208.9	7225.4	7473.0	7849.6	8238.1	8515.7	8280.2	7831.5	7420.5	7269.0	7307.9
55°	6961.4	6994.4	7307.9	7837.6	8367.2	8740.8	8673.2	8235.2	7809.1	7653.1	7696.5
57.5°	6392.8	6439.3	6805.4	7497.0	8338.7	8895.3	8977.8	8622.2	8197.6	8047.6	8082.1
60°	5596.1	5651.6	6002.7	6757.3	7936.6	8952.2	9192.3	8998.8	8554.8	8409.2	8440.7
62.5°	4394.4	4466.4	4886.5	5771.7	7087.4	8686.8	9375.4	9339.4	8875.8	8694.3	8715.3
65°	2819.1	2895.6	3338.1	4383.9	5954.7	7873.5	9432.4	9671.0	9214.9	8961.3	8992.8
67.5°	1699.9	1734.3	1953.3	2657.0	4352.4	6647.8	8949.3	10038.5	9610.9	9295.8	9319.8
70°	1087.7	1107.2	1237.8	1560.4	2460.5	4850.5	7752.1	10107.5	10091.0	9639.4	9636.4
72.5°	738.1	744.2	778.7	924.1	1392.3	2756.0	5717.7	9150.3	10391.0	10082.0	10034.0
75°	540.1	573.1	628.6	654.2	790.7	1377.3	3276.6	6428.8	8757.3	8892.3	8565.2
77.5°	402.1	403.5	480.1	510.1	564.2	733.7	1386.3	3588.7	5437.1	5708.6	5092.0
80°	340.6	322.6	321.0	411.1	424.6	457.6	619.6	1239.2	1947.4	1180.7	892.7
82.5°	283.5	264.0	238.5	321.0	289.6	280.5	268.5	504.1	619.6	304.5	259.5
85°	198.0	189.0	180.0	210.0	165.0	141.0	129.0	235.5	261.1	129.0	114.0
87.5°	85.5	88.6	90.0	93.0	69.0	49.5	49.5	66.0	66.0	51.0	37.5
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)