

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: P967914

Luminaire Tested: **NAV-SB5A-835-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5A-835-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21311.8 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 141.7
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

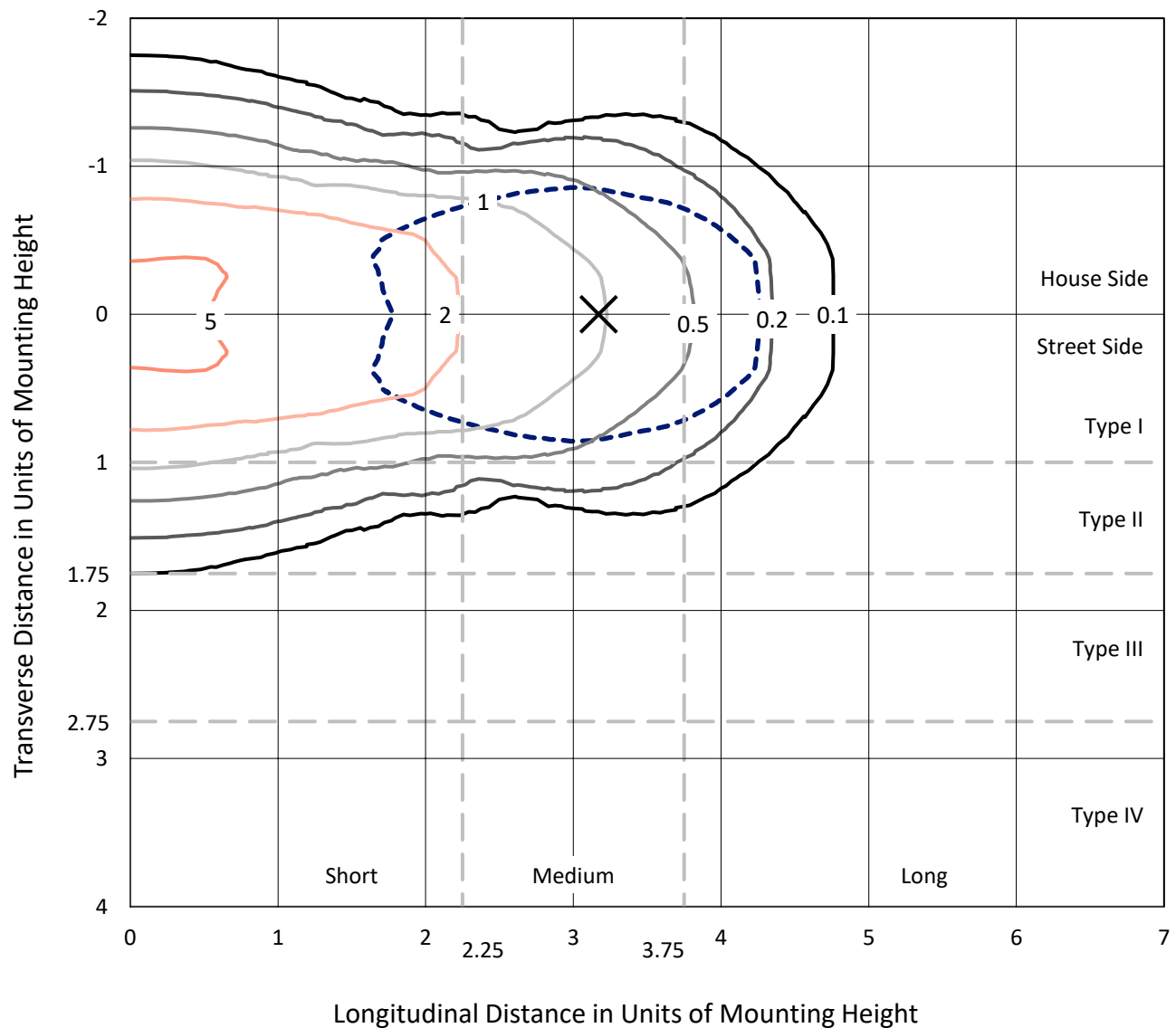


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Iso-Footcandle Lines of Horizontal Illumination

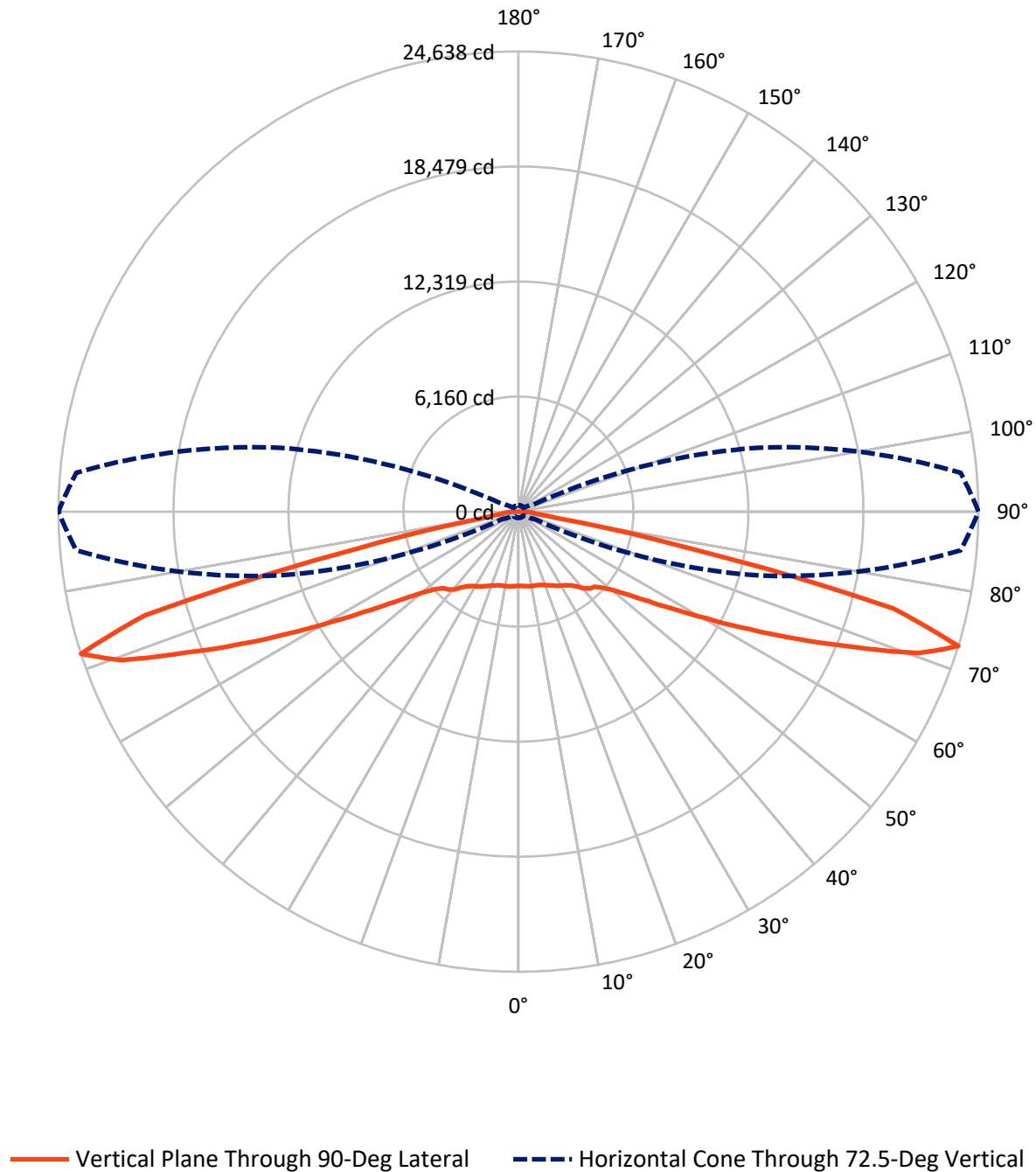
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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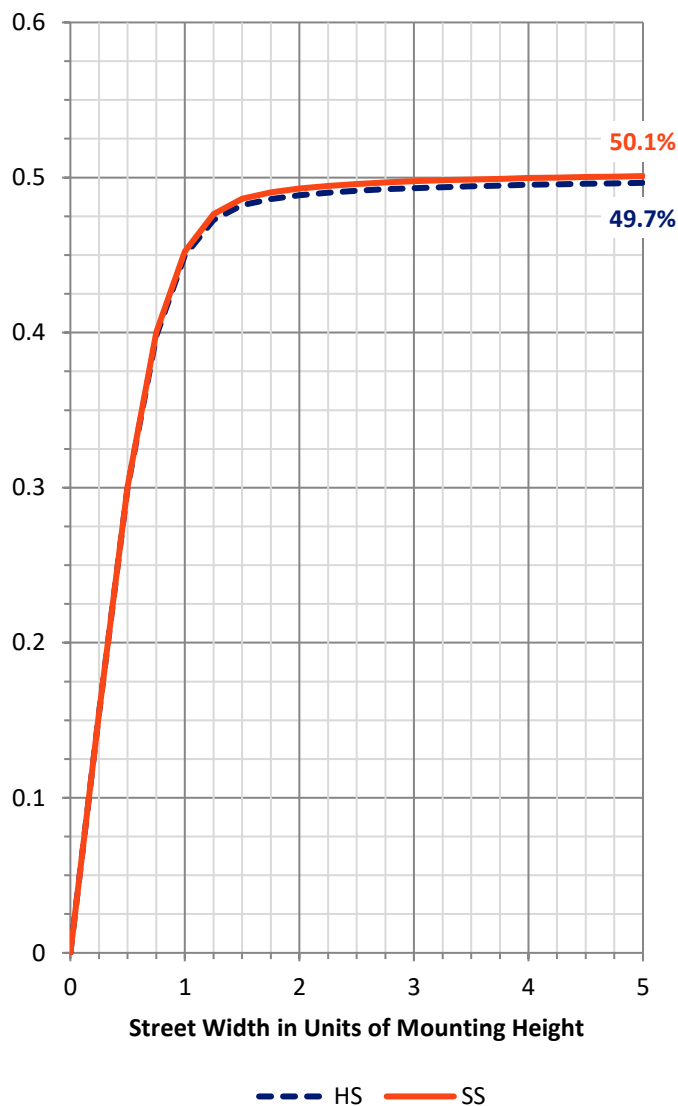
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10655.9	0.0	10655.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10655.9	0.0	10655.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	21311.8	0.0	21311.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.1	1.8
10°-20°	1180.6	5.5
20°-30°	1968.6	9.2
30°-40°	2707.5	12.7
40°-50°	3306.6	15.5
50°-60°	3824.4	17.9
60°-70°	4559.9	21.4
70°-80°	3182.5	14.9
80°-90°	195.5	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°	21311.8	100.0
0°-180°	21311.8	100.0

Coefficient of Utilization



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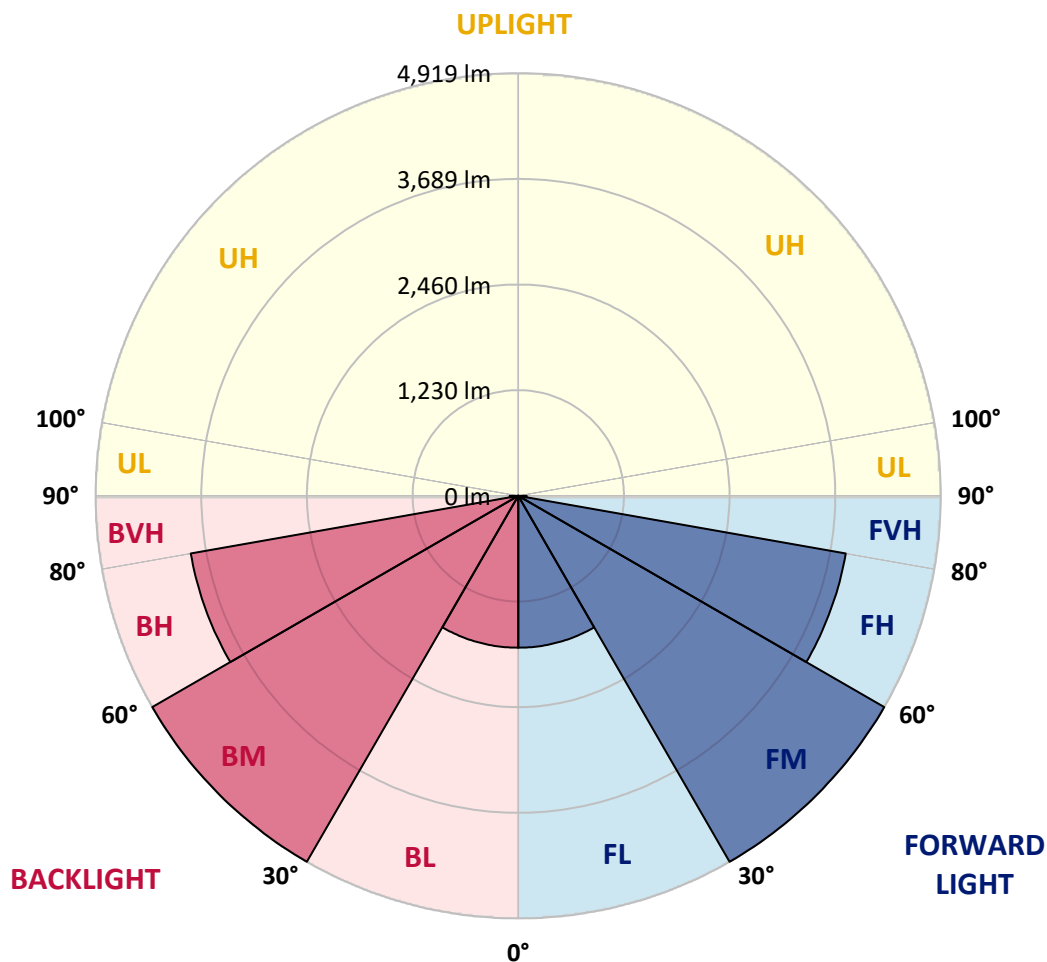
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1767.7	8.3			
FM	(30°-60°)	4919.2	23.1			
FH	(60°-80°)	3871.2	18.2			G2/5000
FVH	(80°-90°)	97.7	0.5			G1/100
BL	(0°-30°)	1767.7	8.3	B3/2500		
BM	(30°-60°)	4919.2	23.1	B3/5000		
BH	(60°-80°)	3871.2	18.2	B4/5000		G4/5000
BVH	(80°-90°)	97.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3982.3	3982.3	3982.3	3982.3	3982.3	3982.3	3982.3	3982.3	3982.3	3982.3	3982.3
2.5°	3985.7	3990.2	3990.2	3986.8	3994.8	3988.0	3988.0	3984.6	3988.0	3984.6	3984.6
5°	4006.1	4011.7	4014.0	4012.9	4023.1	4017.5	4017.5	4012.9	4014.0	4010.6	4010.6
7.5°	4044.6	4052.5	4057.1	4062.8	4077.4	4070.7	4066.2	4052.5	4046.9	4037.9	4037.9
10°	4057.1	4066.2	4080.8	4110.4	4144.3	4145.4	4131.9	4097.8	4071.8	4051.4	4048.0
12.5°	4018.6	4031.0	4061.7	4121.6	4197.6	4228.1	4206.6	4149.9	4099.0	4062.8	4057.1
15°	3969.8	3983.5	4029.9	4120.5	4232.6	4304.0	4301.7	4227.0	4145.4	4088.8	4079.7
17.5°	3894.0	3907.6	3974.4	4101.2	4259.8	4377.7	4409.3	4332.4	4217.9	4142.0	4129.6
20°	3756.9	3769.4	3862.3	4040.1	4268.9	4455.8	4538.5	4470.5	4327.8	4224.7	4205.5
22.5°	3579.1	3598.4	3707.1	3934.8	4247.4	4537.4	4685.7	4639.3	4455.8	4313.1	4287.1
25°	3388.9	3409.3	3536.0	3805.6	4191.8	4596.2	4860.1	4830.7	4600.7	4423.0	4386.7
27.5°	3224.6	3246.2	3384.3	3677.7	4105.8	4618.9	5032.2	5047.0	4776.3	4544.1	4505.6
30°	3095.5	3115.9	3263.1	3574.6	3994.8	4596.2	5182.9	5284.9	4955.3	4649.5	4593.9
32.5°	2953.9	2980.0	3135.2	3448.8	3863.4	4541.9	5314.3	5542.0	5162.5	4762.8	4692.4
35°	2775.0	2798.8	2961.8	3276.7	3691.2	4454.6	5424.2	5827.4	5459.3	4934.9	4856.8
37.5°	2557.5	2580.1	2742.1	3061.5	3520.3	4332.4	5507.9	6149.1	5812.7	5182.9	5078.8
40°	2338.8	2360.4	2512.2	2821.4	3315.3	4176.1	5537.5	6464.0	6218.2	5523.8	5412.8
42.5°	2138.5	2157.6	2297.0	2584.6	3085.2	3976.7	5498.9	6738.0	6581.7	5761.7	5618.9
45°	1953.8	1970.8	2094.3	2362.6	2846.3	3734.3	5383.4	7032.5	7014.4	5931.6	5739.1
47.5°	1743.1	1760.1	1888.0	2147.5	2607.3	3450.0	5187.4	7322.5	7615.9	6316.7	6094.6
50°	1486.0	1500.7	1632.1	1899.4	2359.2	3147.6	4915.6	7550.2	8374.7	6900.0	6621.4
52.5°	1181.3	1197.2	1325.2	1592.4	2064.8	2822.5	4557.7	7698.5	9251.3	7751.8	7408.6
55°	878.9	890.2	1001.2	1241.4	1700.1	2452.1	4109.2	7740.4	10245.8	8916.1	8486.8
57.5°	637.7	644.4	715.9	894.8	1288.9	1988.9	3564.4	7631.6	11429.4	10408.9	9868.6
60°	516.5	518.8	540.3	619.5	896.0	1465.6	2906.3	7257.9	12713.8	12333.2	11652.5
62.5°	468.9	468.9	474.6	496.1	606.0	967.3	2110.1	6483.2	14091.1	14765.0	13853.2
65°	436.0	436.0	438.3	448.5	478.0	616.1	1332.0	5221.5	15252.0	17613.6	16460.6
67.5°	406.6	407.7	406.6	410.0	427.0	455.3	772.4	3606.3	15877.2	20565.2	19320.4
70°	376.1	378.3	372.6	372.6	386.2	387.3	483.6	1977.5	15358.5	23038.8	22711.5
72.5°	339.8	343.2	334.2	331.9	342.0	337.5	363.6	949.1	13186.1	23777.3	24638.1
75°	308.1	312.6	292.2	286.6	286.6	283.2	295.6	487.1	8558.1	19396.3	20746.4
77.5°	279.7	288.8	255.9	237.9	233.3	223.1	241.3	297.9	3743.3	9106.4	8917.2
80°	231.0	243.5	210.6	189.1	181.2	169.9	190.2	208.4	1113.4	2114.6	2025.2
82.5°	172.2	177.8	149.5	134.8	128.0	120.0	142.7	144.9	362.4	748.7	846.0
85°	109.9	112.1	91.7	79.3	75.8	72.5	90.6	79.3	138.2	550.4	799.6
87.5°	38.5	44.2	35.2	31.7	34.0	28.3	41.9	23.8	38.5	388.5	481.3
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)