

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: P968275

Luminaire Tested: **NAV-SB5B-740-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968275
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-SB5B-740-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31763.7 lumens
Efficiency: N/A
Efficacy: 173.9 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): 182.7
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

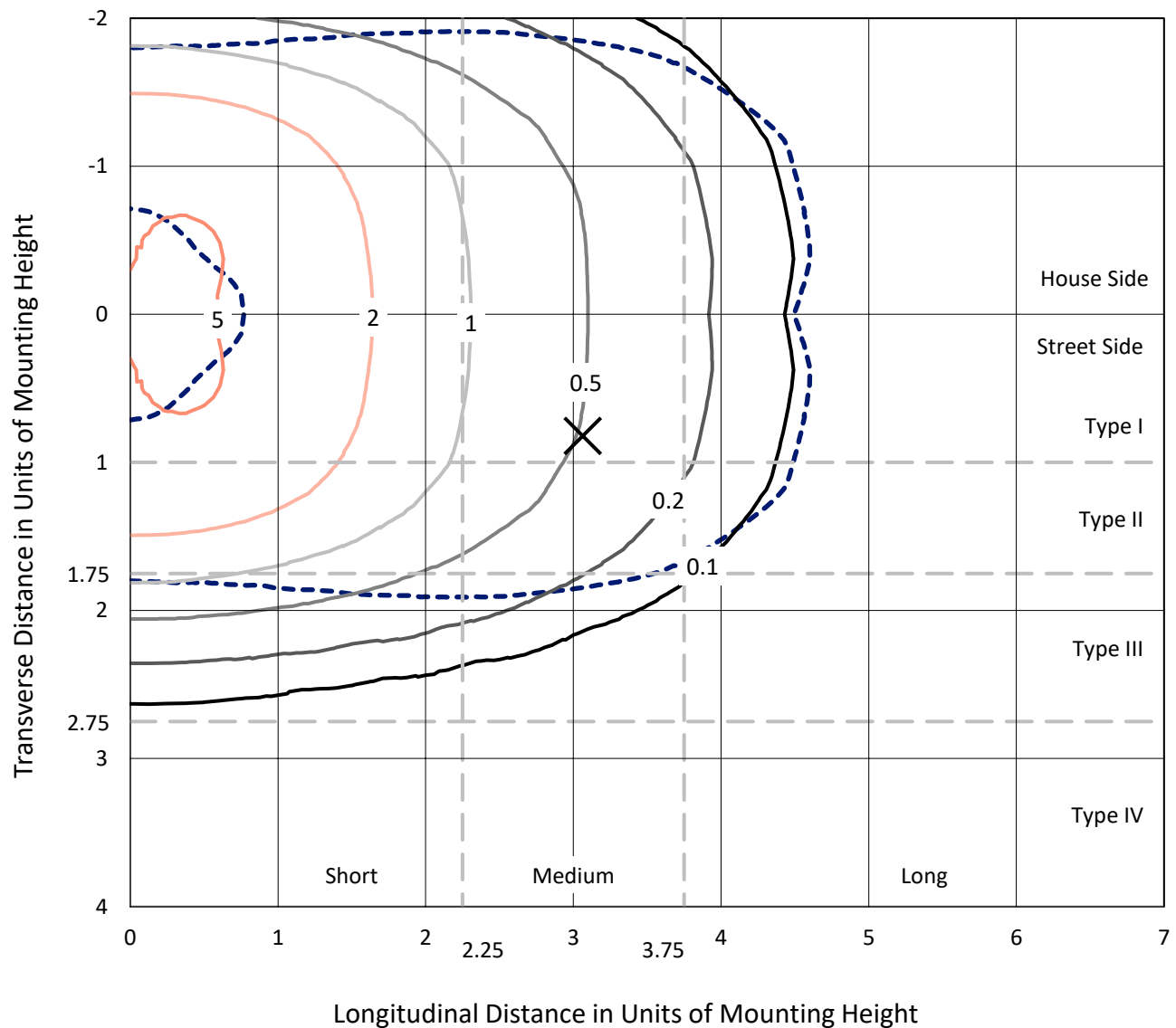


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Iso-Footcandle Lines of Horizontal Illumination

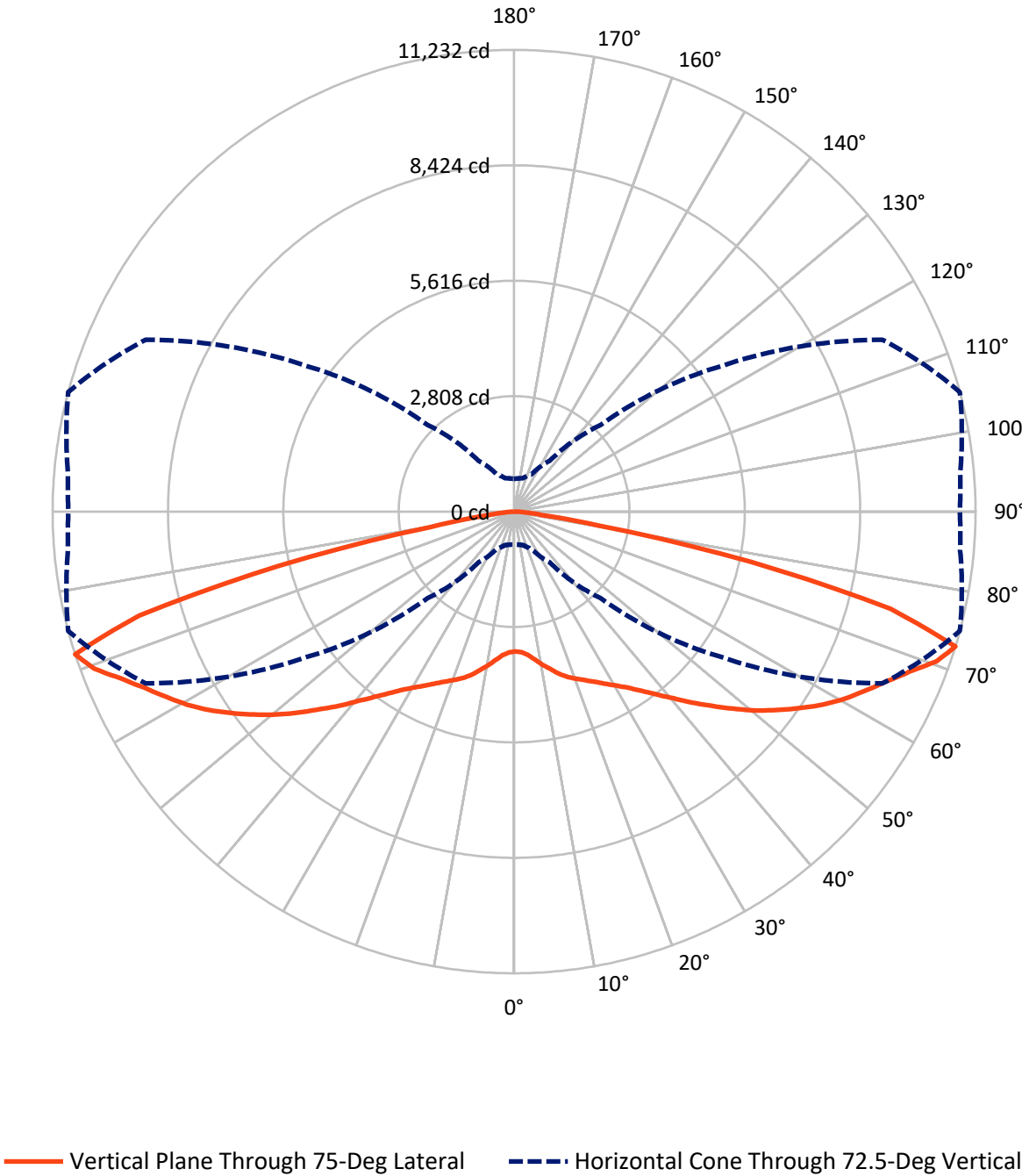
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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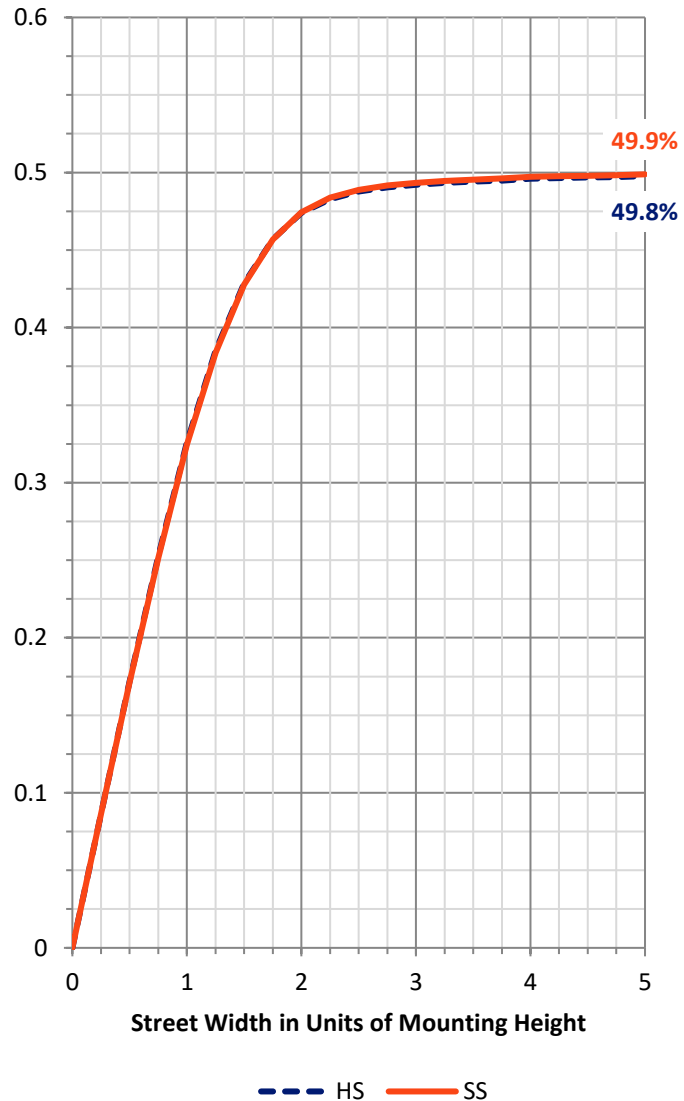
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15881.9	0.0	15881.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15881.9	0.0	15881.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	31763.7	0.0	31763.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.3	1.0
10°-20°	1099.3	3.5
20°-30°	2124.2	6.7
30°-40°	3586.8	11.3
40°-50°	5688.2	17.9
50°-60°	7615.8	24.0
60°-70°	7247.8	22.8
70°-80°	3782.0	11.9
80°-90°	286.3	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°	31763.7	100.0
0°-180°	31763.7	100.0

Coefficient of Utilization



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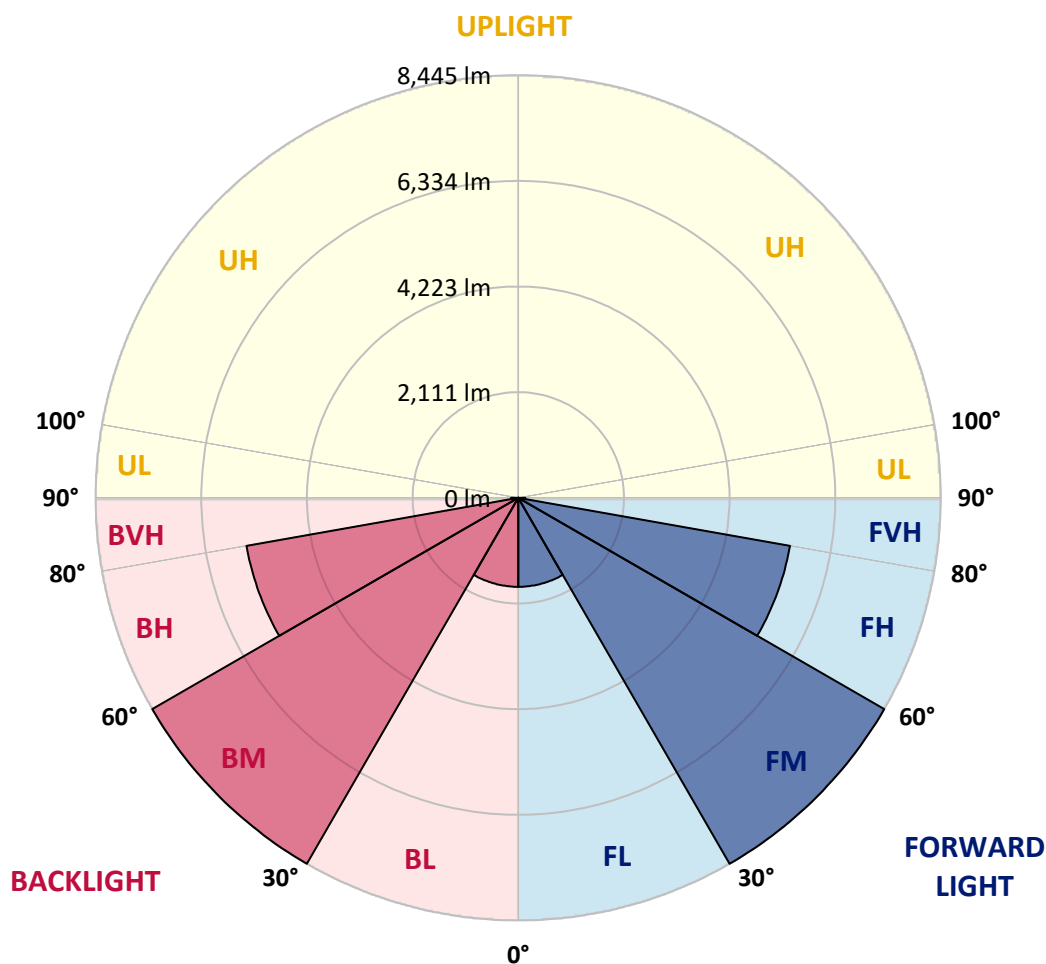
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1778.4	5.6			
FM	(30°-60°)	8445.4	26.6			
FH	(60°-80°)	5514.9	17.4			G3/7500
FVH	(80°-90°)	143.1	0.5			G2/225
BL	(0°-30°)	1778.4	5.6	B3/2500		
BM	(30°-60°)	8445.4	26.6	B4/8500		
BH	(60°-80°)	5514.9	17.4	B5		G5
BVH	(80°-90°)	143.1	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°	3402.5	3402.5	3402.5	3402.5	3402.5	3402.5	3402.5	3402.5	3402.5	3402.5	3402.5
2.5°	3402.5	3399.2	3402.5	3405.7	3404.1	3404.1	3412.2	3417.0	3426.8	3425.1	3423.5
5°	3379.7	3378.1	3391.1	3405.7	3417.0	3436.5	3460.8	3478.6	3501.4	3506.2	3506.2
7.5°	3368.5	3363.5	3386.3	3412.2	3447.9	3496.5	3543.5	3592.2	3631.2	3644.1	3647.4
10°	3376.6	3378.1	3408.9	3457.6	3514.3	3582.5	3649.0	3731.7	3786.9	3799.8	3812.8
12.5°	3413.9	3410.6	3462.4	3540.4	3618.1	3704.1	3781.9	3872.8	3932.8	3963.6	3976.6
15°	3481.9	3475.5	3548.4	3663.6	3777.1	3877.7	3940.9	4026.8	4096.6	4135.5	4150.1
17.5°	3563.0	3566.3	3661.9	3811.2	3960.4	4073.9	4133.9	4177.7	4231.2	4265.2	4281.4
20°	3705.7	3712.2	3819.3	3996.1	4166.3	4296.1	4344.7	4328.5	4343.1	4369.1	4388.5
22.5°	3897.2	3900.3	4020.4	4211.7	4390.1	4532.9	4565.2	4498.8	4458.2	4476.1	4489.1
25°	4119.3	4140.4	4260.4	4456.6	4639.9	4776.1	4790.6	4690.2	4589.6	4594.5	4602.6
27.5°	4390.1	4409.5	4531.2	4725.9	4912.3	5030.7	5029.1	4894.5	4746.9	4709.6	4720.9
30°	4683.6	4704.8	4829.6	5030.7	5204.2	5308.1	5285.3	5124.8	4914.0	4844.3	4852.3
32.5°	5032.3	5045.4	5171.8	5372.9	5533.5	5616.2	5569.1	5371.3	5108.6	5029.1	5048.5
35°	5454.0	5473.5	5567.5	5757.2	5898.4	5966.5	5887.0	5653.5	5358.3	5269.1	5282.1
37.5°	5935.7	5922.7	6029.8	6198.4	6315.1	6357.4	6248.7	5971.3	5643.8	5538.3	5557.8
40°	6438.4	6431.9	6548.7	6710.9	6774.1	6800.1	6639.5	6336.2	5973.0	5859.4	5896.7
42.5°	6894.2	6889.2	7046.6	7226.6	7302.8	7273.6	7070.9	6723.8	6354.1	6224.3	6256.8
45°	7259.0	7252.5	7445.5	7698.6	7847.7	7799.0	7526.6	7151.9	6740.1	6605.4	6636.3
47.5°	7539.6	7542.9	7750.4	8063.4	8324.5	8342.4	7992.0	7588.3	7165.0	7012.5	7057.9
50°	7742.3	7752.1	7974.2	8321.3	8678.1	8835.4	8467.2	8035.9	7604.5	7432.6	7484.4
52.5°	7792.6	7810.4	8078.0	8485.1	8905.1	9205.1	8950.5	8465.6	8021.2	7857.4	7899.6
55°	7525.0	7560.7	7899.6	8472.1	9044.6	9448.4	9375.5	8901.9	8441.3	8272.7	8319.6
57.5°	6910.3	6960.6	7356.3	8104.0	9013.7	9615.4	9704.6	9320.3	8861.3	8699.2	8736.5
60°	6049.1	6109.2	6488.7	7304.5	8579.1	9677.0	9936.6	9727.4	9247.3	9090.0	9124.0
62.5°	4750.2	4828.0	5282.1	6239.0	7661.3	9390.0	10134.4	10095.5	9594.4	9398.1	9420.9
65°	3047.3	3130.0	3608.4	4738.8	6436.8	8511.0	10196.1	10453.9	9960.8	9686.8	9720.9
67.5°	1837.4	1874.7	2111.5	2872.2	4704.8	7186.1	9673.8	10851.3	10389.0	10048.5	10074.4
70°	1175.8	1196.9	1337.9	1686.6	2659.7	5243.2	8379.7	10925.8	10907.9	10419.8	10416.6
72.5°	797.9	804.4	841.7	999.0	1505.0	2979.2	6180.5	9891.1	11232.4	10898.3	10846.3
75°	583.8	619.5	679.5	707.0	854.6	1488.8	3541.9	6949.3	9466.3	9612.2	9258.6
77.5°	434.6	436.2	519.0	551.4	609.8	793.0	1498.6	3879.2	5877.2	6170.8	5504.2
80°	368.2	348.7	347.1	444.3	459.0	494.7	669.8	1339.6	2105.0	1276.3	964.9
82.5°	306.5	285.5	257.9	347.1	313.0	303.3	290.3	544.9	669.8	329.2	280.5
85°	214.1	204.4	194.6	227.0	178.4	152.4	139.5	254.6	282.2	139.5	123.2
87.5°	92.5	95.7	97.3	100.6	74.6	53.5	53.5	71.3	71.3	55.1	40.6
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)