

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: P968430

Luminaire Tested: **NAV-SB5B-835-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968430
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-835-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27848.2 lumens
Efficiency: N/A
Efficacy: 152.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

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

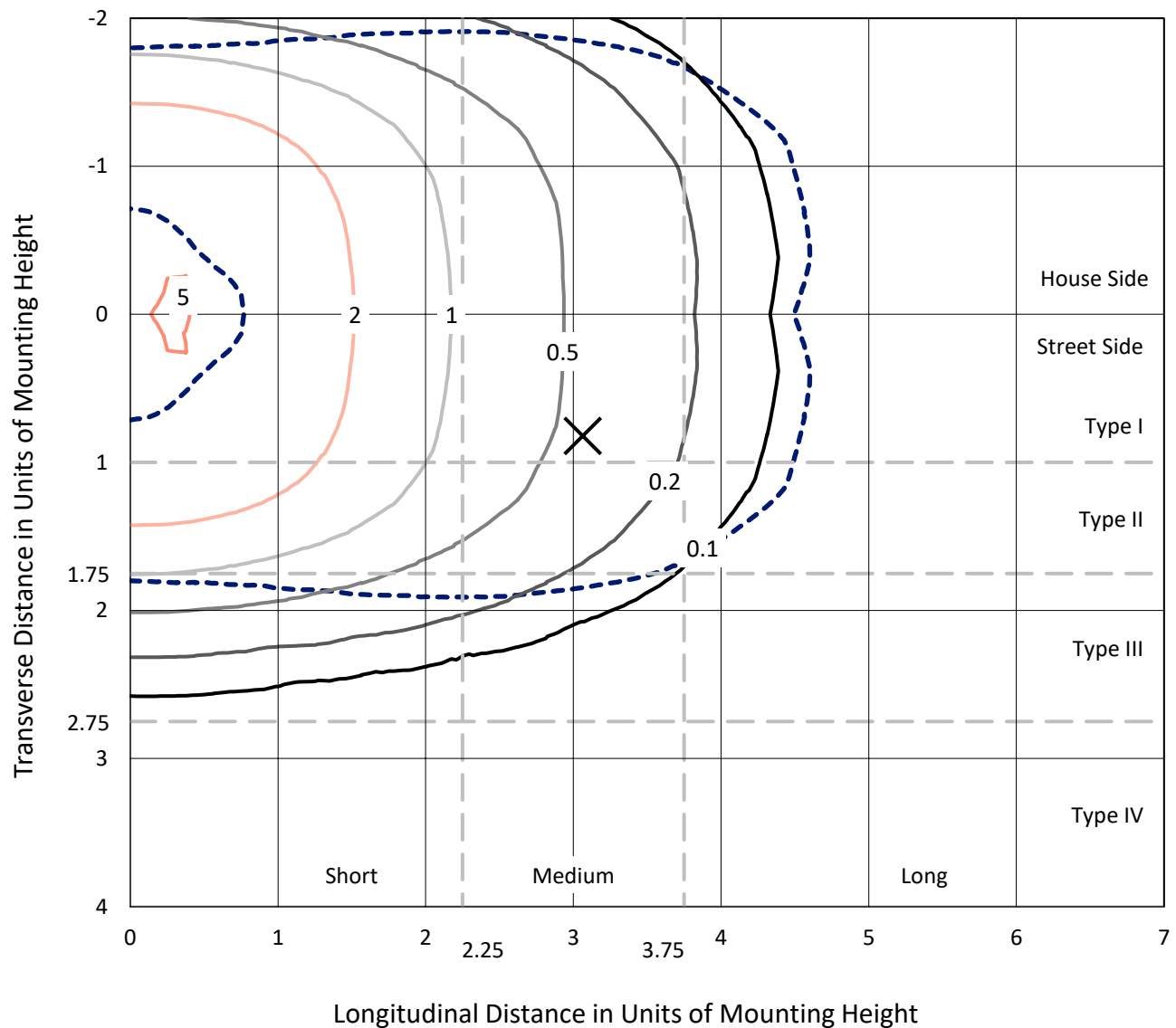


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Iso-Footcandle Lines of Horizontal Illumination

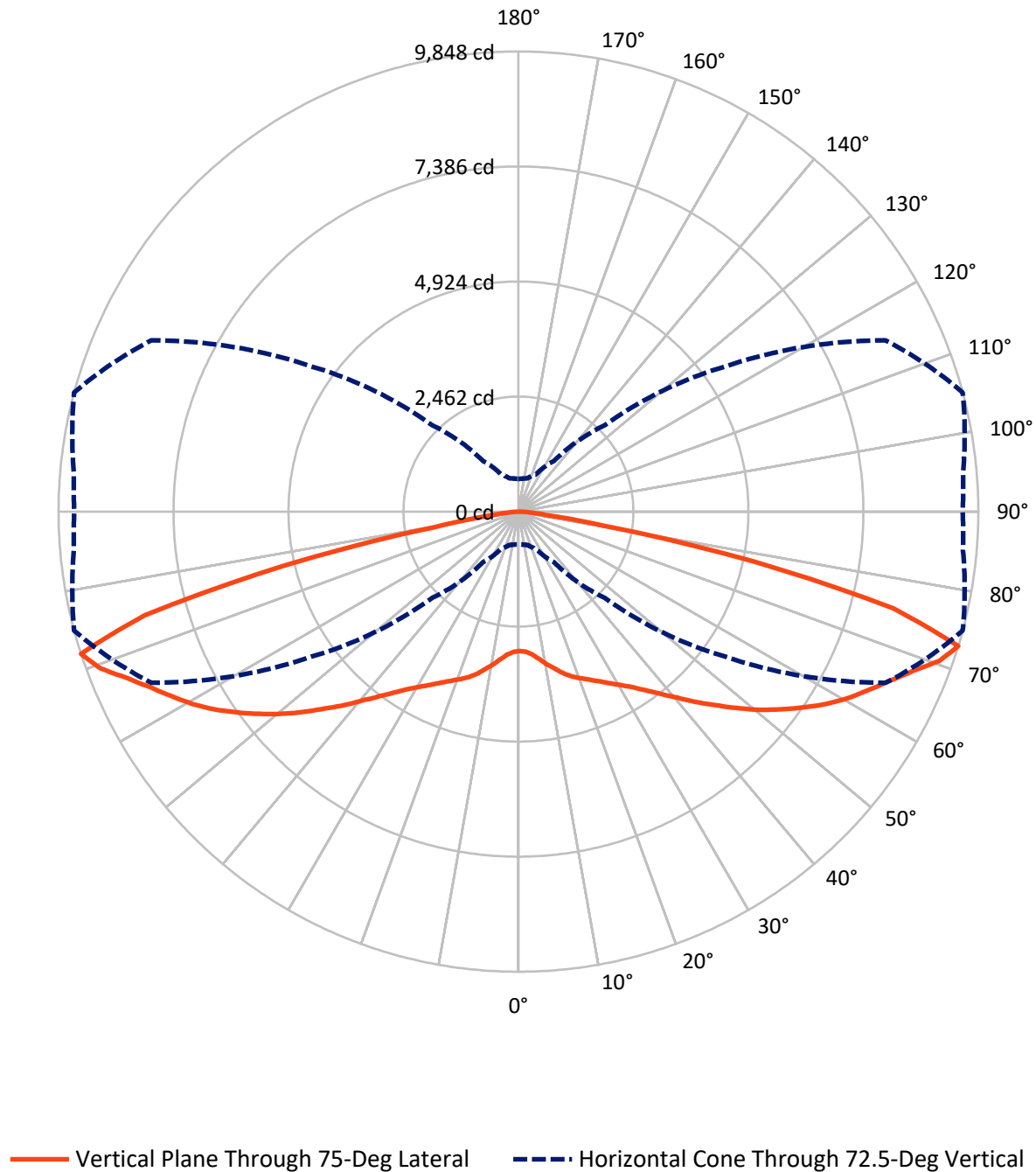
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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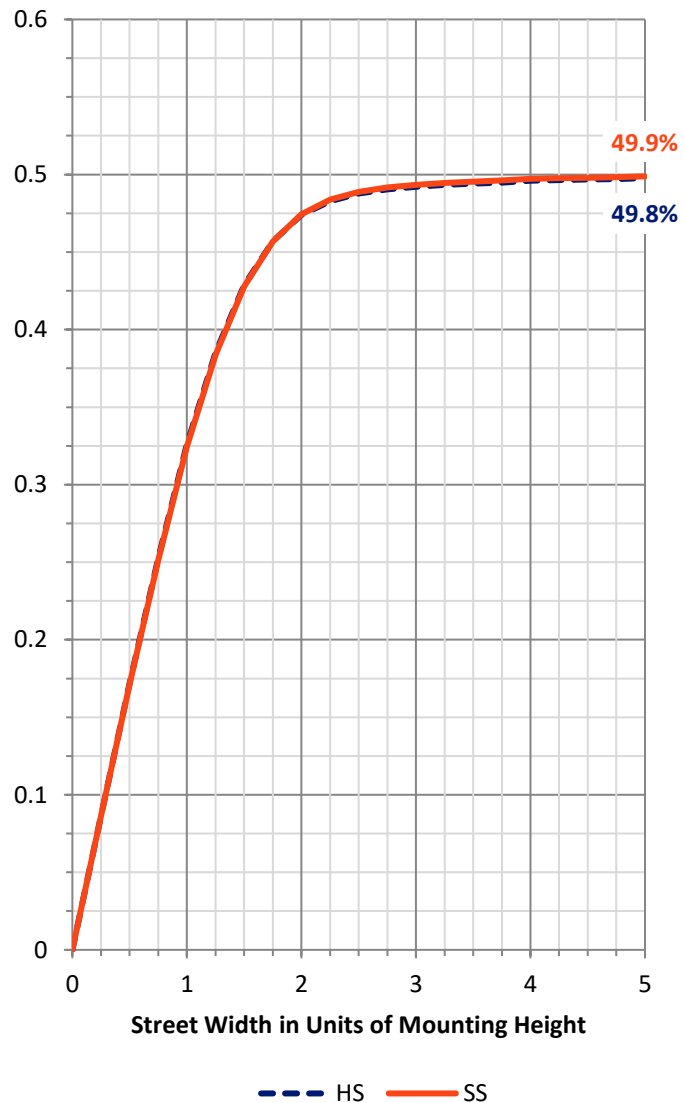
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13924.1	0.0	13924.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13924.1	0.0	13924.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	27848.2	0.0	27848.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.2	1.0
10°-20°	963.8	3.5
20°-30°	1862.3	6.7
30°-40°	3144.6	11.3
40°-50°	4987.0	17.9
50°-60°	6677.0	24.0
60°-70°	6354.4	22.8
70°-80°	3315.8	11.9
80°-90°	251.0	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°	27848.2	100.0
0°-180°	27848.2	100.0

Coefficient of Utilization



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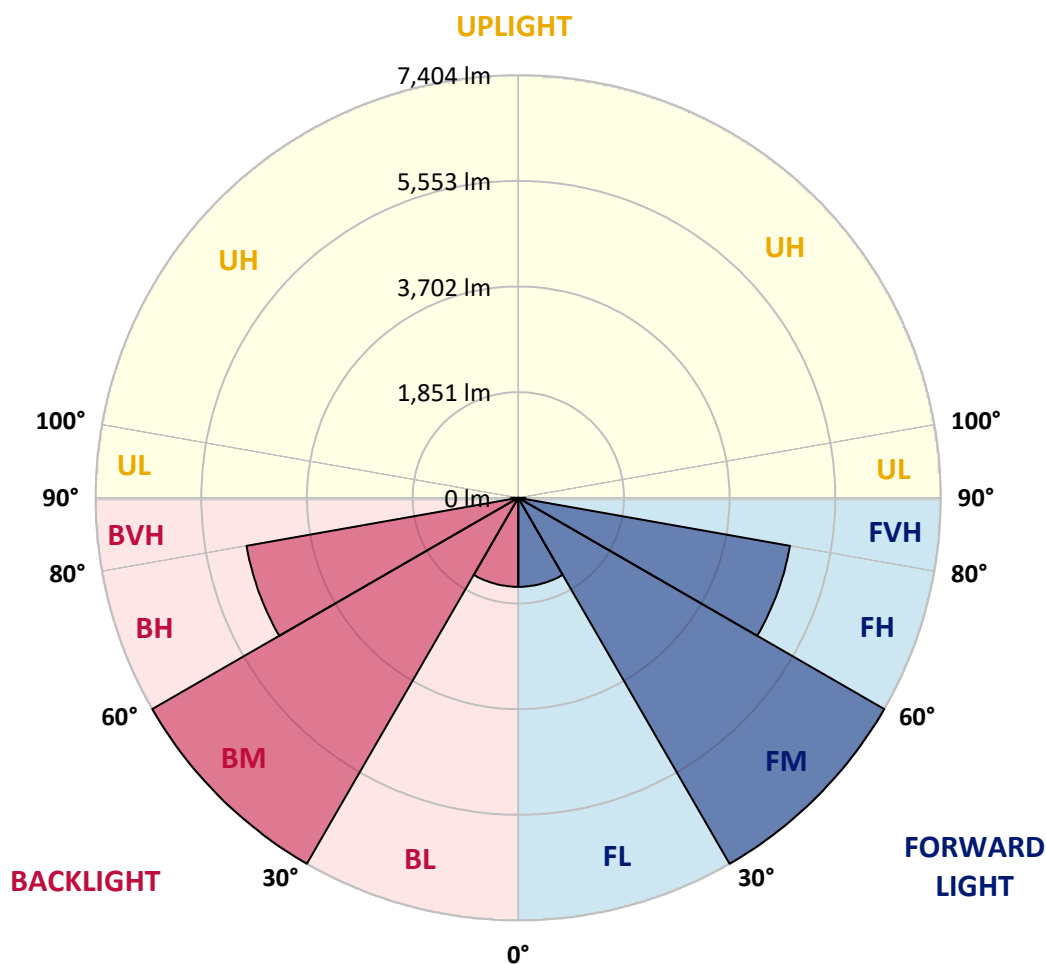
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1559.2	5.6			
FM	(30°-60°)	7404.3	26.6			
FH	(60°-80°)	4835.1	17.4			G2/5000
FVH	(80°-90°)	125.5	0.5			G2/225
BL	(0°-30°)	1559.2	5.6	B3/2500		
BM	(30°-60°)	7404.3	26.6	B4/8500		
BH	(60°-80°)	4835.1	17.4	B4/5000		G4/5000
BVH	(80°-90°)	125.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2983.1	2983.1	2983.1	2983.1	2983.1	2983.1	2983.1	2983.1	2983.1	2983.1	2983.1
2.5°	2983.1	2980.2	2983.1	2985.9	2984.5	2984.5	2991.6	2995.9	3004.4	3002.9	3001.5
5°	2963.2	2961.7	2973.1	2985.9	2995.9	3012.9	3034.2	3049.9	3069.8	3074.1	3074.1
7.5°	2953.2	2948.9	2968.8	2991.6	3022.8	3065.5	3106.8	3149.4	3183.5	3194.9	3197.7
10°	2960.3	2961.7	2988.7	3031.4	3081.1	3140.9	3199.1	3271.7	3320.0	3331.4	3342.7
12.5°	2993.0	2990.1	3035.6	3103.9	3172.2	3247.5	3315.8	3395.4	3448.0	3475.0	3486.3
15°	3052.8	3047.0	3111.0	3211.9	3311.5	3399.6	3455.1	3530.4	3591.6	3625.7	3638.5
17.5°	3123.8	3126.7	3210.5	3341.4	3472.2	3571.7	3624.3	3662.7	3709.6	3739.5	3753.7
20°	3248.9	3254.6	3348.5	3503.4	3652.7	3766.5	3809.1	3795.0	3807.7	3830.4	3847.5
22.5°	3416.7	3419.5	3524.8	3692.6	3849.0	3974.0	4002.5	3944.2	3908.6	3924.3	3935.7
25°	3611.5	3629.9	3735.2	3907.2	4067.9	4187.3	4200.1	4112.0	4023.8	4028.1	4035.2
27.5°	3849.0	3866.0	3972.7	4143.3	4306.7	4410.6	4409.1	4291.2	4161.8	4129.0	4139.1
30°	4106.4	4124.8	4234.3	4410.6	4562.7	4653.7	4633.8	4493.1	4308.2	4247.1	4254.2
32.5°	4412.0	4423.4	4534.3	4710.6	4851.3	4923.9	4882.6	4709.2	4478.8	4409.1	4426.3
35°	4781.7	4798.7	4881.3	5047.6	5171.2	5231.0	5161.3	4956.6	4697.8	4619.6	4631.0
37.5°	5203.9	5192.6	5286.4	5434.3	5536.6	5573.6	5478.4	5235.3	4948.1	4855.6	4872.6
40°	5644.8	5639.0	5741.4	5883.6	5939.1	5961.8	5821.1	5555.2	5236.7	5137.2	5169.9
42.5°	6044.3	6040.0	6178.0	6335.7	6402.6	6377.0	6199.3	5895.0	5570.8	5457.1	5485.5
45°	6364.2	6358.5	6527.7	6749.5	6880.3	6837.7	6598.8	6270.3	5909.2	5791.2	5818.2
47.5°	6610.2	6613.0	6795.0	7069.4	7298.4	7314.0	7006.9	6652.9	6281.7	6148.1	6187.9
50°	6788.0	6796.5	6991.2	7295.5	7608.4	7746.2	7423.5	7045.2	6667.0	6516.3	6561.8
52.5°	6832.0	6847.6	7082.2	7439.1	7807.4	8070.4	7847.2	7422.0	7032.5	6888.8	6925.8
55°	6597.4	6628.7	6925.8	7427.8	7929.7	8283.7	8219.7	7804.6	7400.7	7252.9	7294.1
57.5°	6058.5	6102.5	6449.5	7105.0	7902.6	8430.1	8508.3	8171.4	7769.0	7626.8	7659.5
60°	5303.6	5356.1	5688.9	6404.0	7521.6	8484.2	8711.7	8528.3	8107.4	7969.5	7999.3
62.5°	4164.6	4232.8	4631.0	5469.8	6716.8	8232.5	8885.1	8851.0	8411.7	8239.7	8259.6
65°	2671.7	2744.1	3163.7	4154.6	5643.3	7461.9	8939.1	9165.2	8733.0	8492.7	8522.6
67.5°	1611.0	1643.7	1851.3	2518.1	4124.8	6300.3	8481.4	9513.6	9108.4	8809.8	8832.5
70°	1030.8	1049.3	1173.0	1478.8	2331.9	4596.8	7346.7	9579.0	9563.4	9135.4	9132.5
72.5°	699.6	705.2	737.9	875.9	1319.5	2611.9	5418.7	8671.9	9847.8	9554.8	9509.3
75°	511.9	543.1	595.7	619.9	749.3	1305.2	3105.3	6092.6	8299.3	8427.3	8117.4
77.5°	381.1	382.4	455.0	483.4	534.6	695.3	1313.7	3401.1	5152.8	5410.2	4825.8
80°	322.8	305.7	304.3	389.6	402.4	433.7	587.2	1174.4	1845.5	1119.0	846.0
82.5°	268.8	250.2	226.1	304.3	274.4	265.9	254.5	477.8	587.2	288.6	246.0
85°	187.7	179.2	170.7	199.1	156.4	133.7	122.3	223.2	247.4	122.3	108.0
87.5°	81.1	83.8	85.3	88.1	65.4	46.9	46.9	62.5	62.5	48.4	35.6
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)