

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: P967376

Luminaire Tested: **NAV-SB4D-835-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967376
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-SB4D-835-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39926.8 lumens
Efficiency: N/A
Efficacy: 136.0 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): 293.6
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

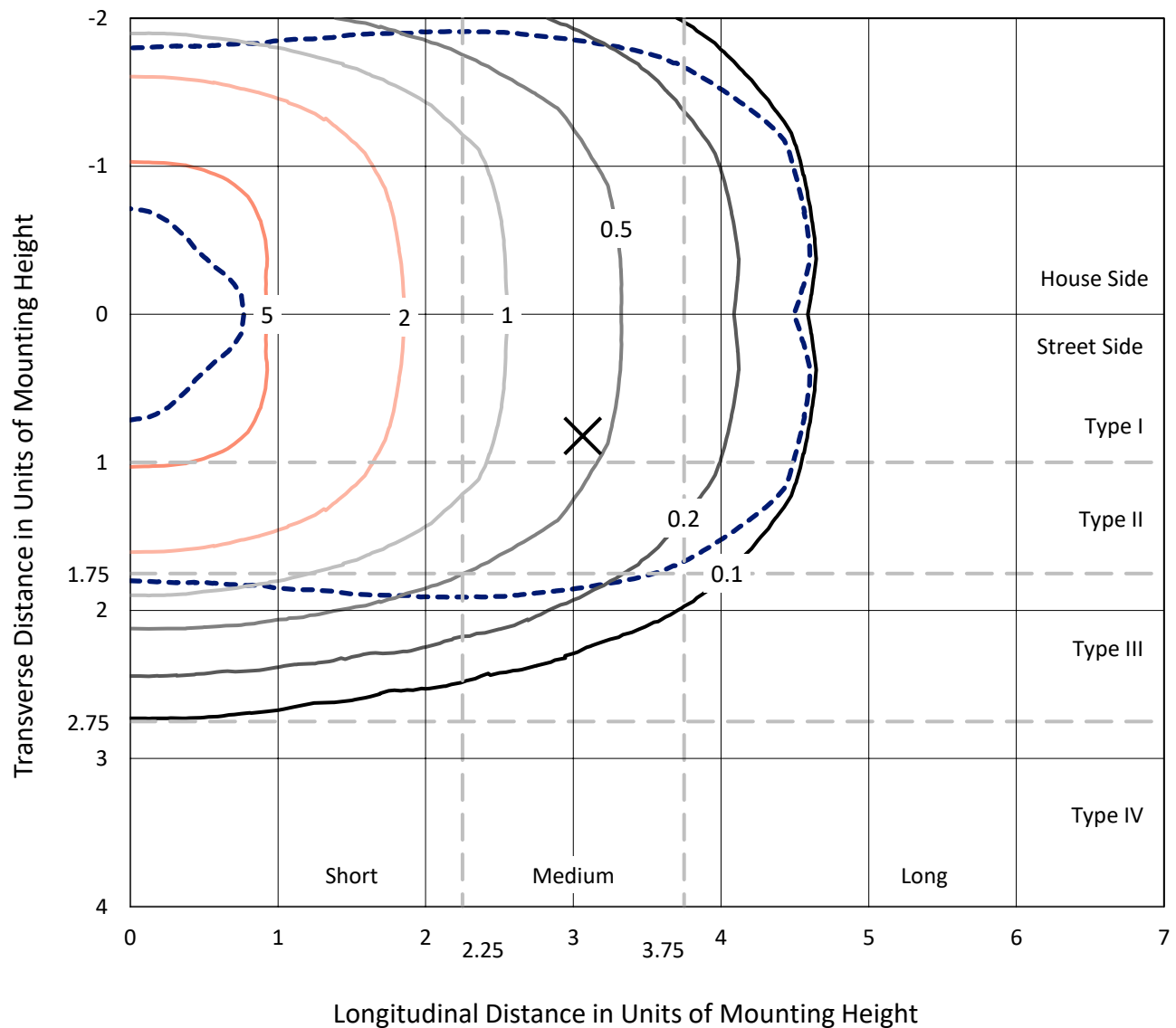


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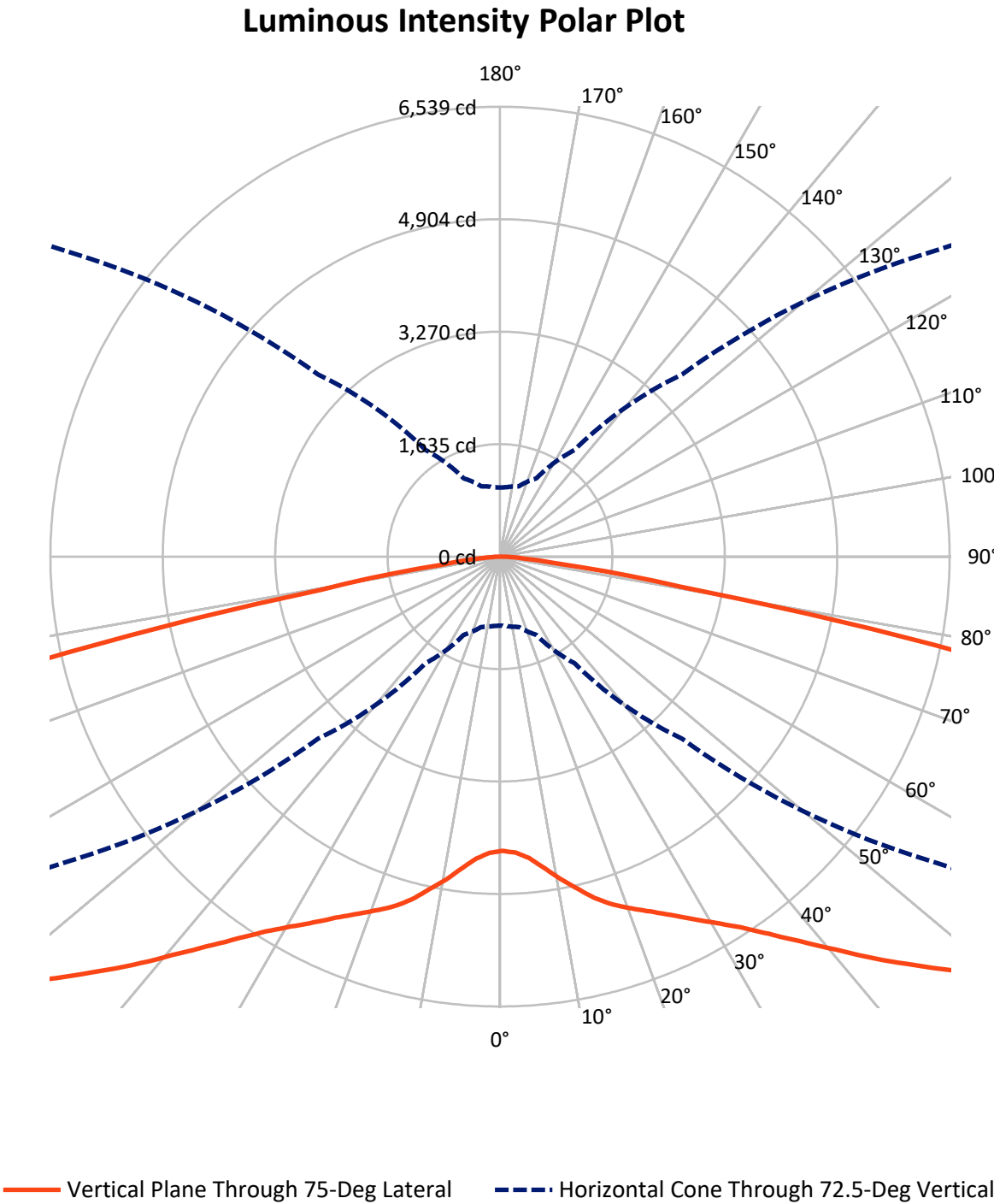
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type III - Medium - N/A

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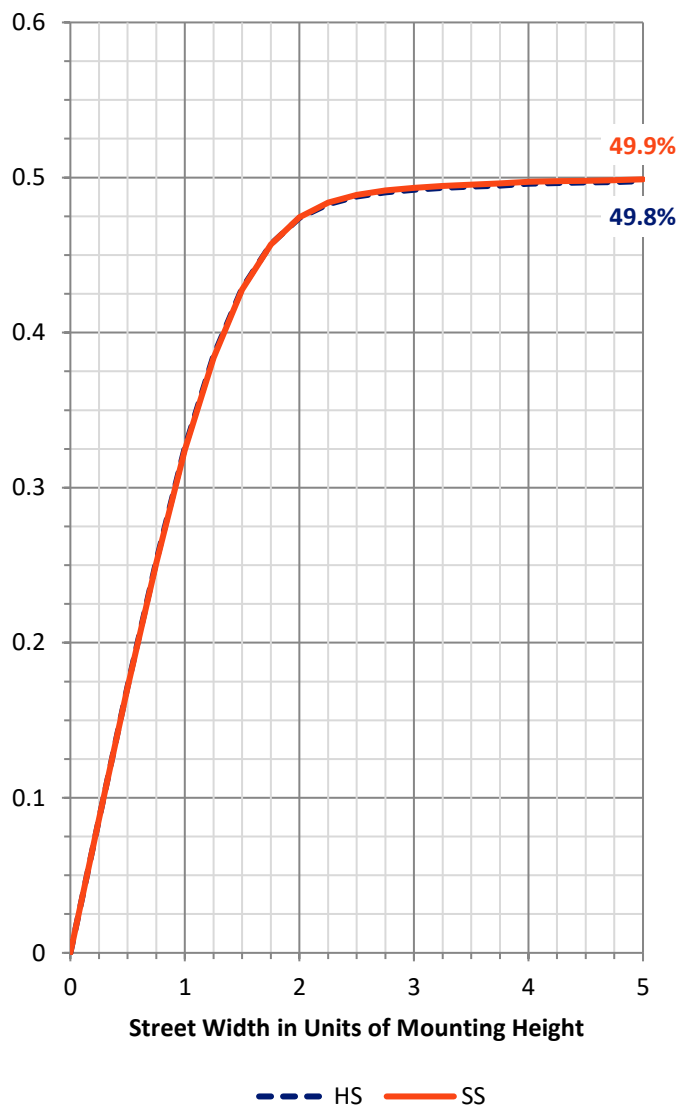
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19963.4	0.0	19963.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19963.4	0.0	19963.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	39926.8	0.0	39926.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.0	1.0
10°-20°	1381.8	3.5
20°-30°	2670.1	6.7
30°-40°	4508.5	11.3
40°-50°	7150.0	17.9
50°-60°	9573.1	24.0
60°-70°	9110.5	22.8
70°-80°	4754.0	11.9
80°-90°	359.8	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°	39926.8	100.0
0°-180°	39926.8	100.0

Coefficient of Utilization



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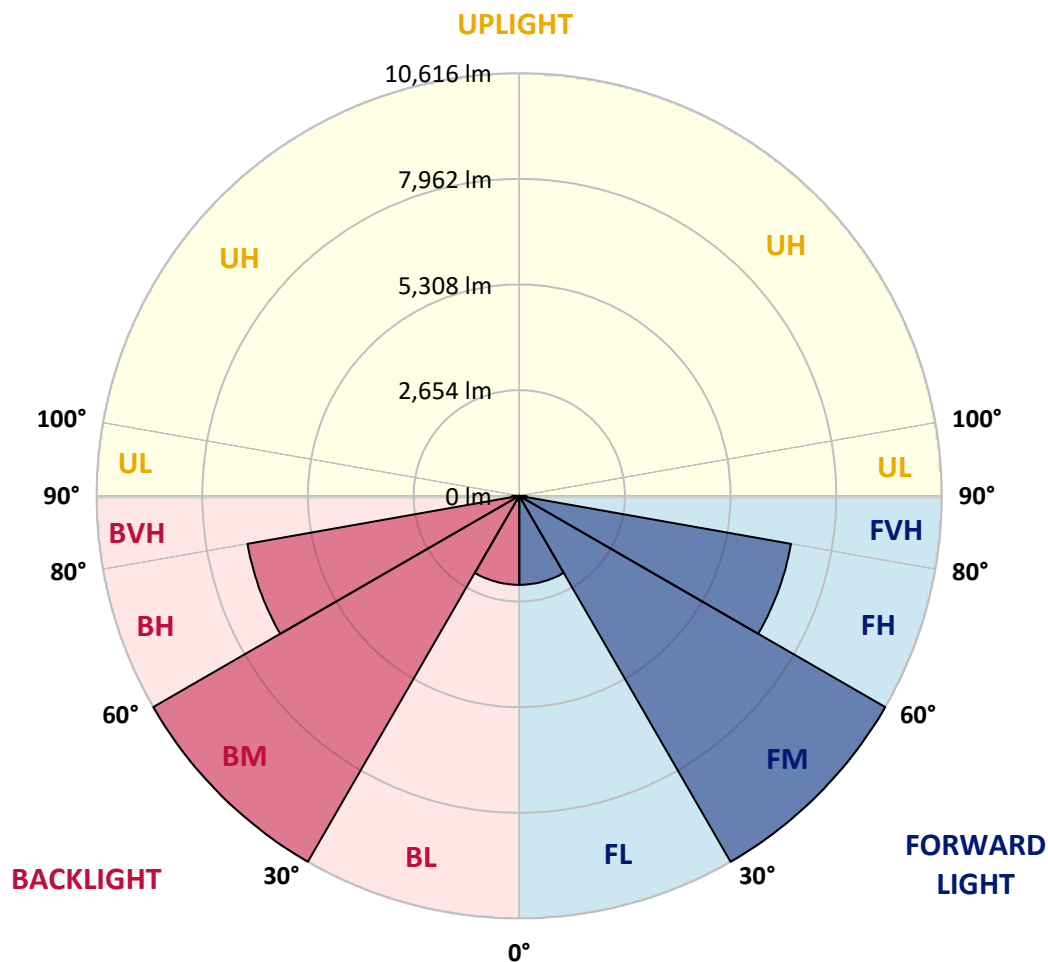
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2235.4	5.6			
FM	(30°-60°)	10615.8	26.6			
FH	(60°-80°)	6932.2	17.4			G3/7500
FVH	(80°-90°)	179.9	0.5			G2/225
BL	(0°-30°)	2235.4	5.6	B3/2500		
BM	(30°-60°)	10615.8	26.6	B5		
BH	(60°-80°)	6932.2	17.4	B5		G5
BVH	(80°-90°)	179.9	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°	4276.9	4276.9	4276.9	4276.9	4276.9	4276.9	4276.9	4276.9	4276.9	4276.9	4276.9
2.5°	4276.9	4272.8	4276.9	4280.9	4279.0	4279.0	4289.1	4295.3	4307.5	4305.4	4303.4
5°	4248.3	4246.3	4262.6	4280.9	4295.3	4319.7	4350.3	4372.6	4401.2	4407.3	4407.3
7.5°	4234.1	4227.9	4256.5	4289.1	4334.0	4395.1	4454.2	4515.4	4564.3	4580.6	4584.7
10°	4244.2	4246.3	4285.0	4346.2	4417.5	4503.1	4586.8	4690.7	4760.0	4776.3	4792.6
12.5°	4291.2	4287.1	4352.4	4450.1	4548.0	4656.1	4753.8	4868.0	4943.5	4982.2	4998.5
15°	4376.8	4368.7	4460.4	4605.1	4747.8	4874.2	4953.7	5061.8	5149.4	5198.3	5216.6
17.5°	4478.7	4482.7	4603.1	4790.5	4978.1	5120.8	5196.2	5251.3	5318.6	5361.4	5381.8
20°	4658.1	4666.2	4800.8	5023.0	5237.0	5400.1	5461.3	5440.9	5459.3	5491.8	5516.3
22.5°	4898.7	4902.7	5053.6	5294.1	5518.4	5697.8	5738.6	5654.9	5604.0	5626.4	5642.7
25°	5177.9	5204.4	5355.3	5601.9	5832.2	6003.5	6021.9	5895.5	5769.1	5775.3	5785.4
27.5°	5518.4	5542.8	5695.7	5940.3	6174.8	6323.5	6321.6	6152.4	5966.8	5920.0	5934.2
30°	5887.3	5913.8	6070.8	6323.5	6541.8	6672.1	6643.6	6441.8	6176.9	6089.1	6099.4
32.5°	6325.6	6341.9	6501.0	6753.7	6955.5	7059.5	7000.3	6751.7	6421.4	6321.6	6346.0
35°	6855.6	6880.1	6998.4	7236.8	7414.2	7499.8	7399.9	7106.4	6735.4	6623.2	6639.5
37.5°	7461.1	7444.8	7579.4	7791.3	7938.1	7991.1	7854.6	7506.0	7094.1	6961.7	6986.1
40°	8093.1	8084.9	8231.7	8435.5	8515.0	8547.7	8345.9	7964.7	7508.0	7365.2	7412.2
42.5°	8665.9	8659.7	8857.5	9083.8	9179.6	9142.9	8888.1	8451.8	7987.0	7823.9	7864.7
45°	9124.6	9116.3	9359.0	9677.0	9864.5	9803.4	9461.0	8990.0	8472.2	8303.0	8341.8
47.5°	9477.3	9481.2	9742.2	10135.7	10463.9	10486.3	10046.0	9538.3	9006.3	8814.7	8871.8
50°	9732.1	9744.3	10023.6	10459.8	10908.3	11106.0	10643.3	10101.0	9558.7	9342.7	9407.9
52.5°	9795.2	9817.7	10154.1	10665.7	11193.7	11570.8	11250.7	10641.2	10082.6	9876.8	9929.8
55°	9458.9	9503.7	9929.8	10649.3	11369.0	11876.6	11784.8	11189.6	10610.7	10398.6	10457.8
57.5°	8686.3	8749.5	9246.8	10186.7	11330.2	12086.6	12198.7	11715.5	11138.7	10934.8	10981.6
60°	7603.8	7679.2	8156.2	9181.6	10783.9	12164.0	12490.2	12227.2	11623.8	11426.1	11468.9
62.5°	5970.9	6068.7	6639.5	7842.3	9630.1	11803.2	12738.9	12690.0	12060.0	11813.4	11841.9
65°	3830.4	3934.4	4535.7	5956.7	8091.0	10698.3	12816.4	13140.5	12520.8	12176.3	12219.0
67.5°	2309.6	2356.6	2654.2	3610.3	5913.8	9032.8	12160.0	13640.0	13058.9	12630.9	12663.5
70°	1477.9	1504.5	1681.8	2120.1	3343.2	6590.6	10533.2	13733.7	13711.3	13097.7	13093.6
72.5°	1003.0	1011.2	1058.0	1255.7	1891.7	3744.8	7768.9	12433.1	14119.0	13699.0	13633.8
75°	733.9	778.7	854.1	888.8	1074.3	1871.3	4452.2	8735.2	11899.0	12082.5	11638.1
77.5°	546.3	548.4	652.3	693.1	766.5	996.8	1883.6	4876.2	7387.7	7756.7	6918.9
80°	462.8	438.3	436.2	558.5	576.9	621.8	841.9	1683.9	2646.0	1604.3	1213.0
82.5°	385.3	358.7	324.1	436.2	393.4	381.2	364.9	684.9	841.9	413.8	352.7
85°	269.1	256.9	244.7	285.4	224.3	191.6	175.3	320.0	354.8	175.3	155.0
87.5°	116.2	120.2	122.3	126.4	93.8	67.2	67.2	89.7	89.7	69.3	50.9
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)