

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: P969391

Luminaire Tested: **NAV-SB5D-760-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969391
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-SB5D-760-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57401 lumens
Efficiency: N/A
Efficacy: 157.3 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): 364.9
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

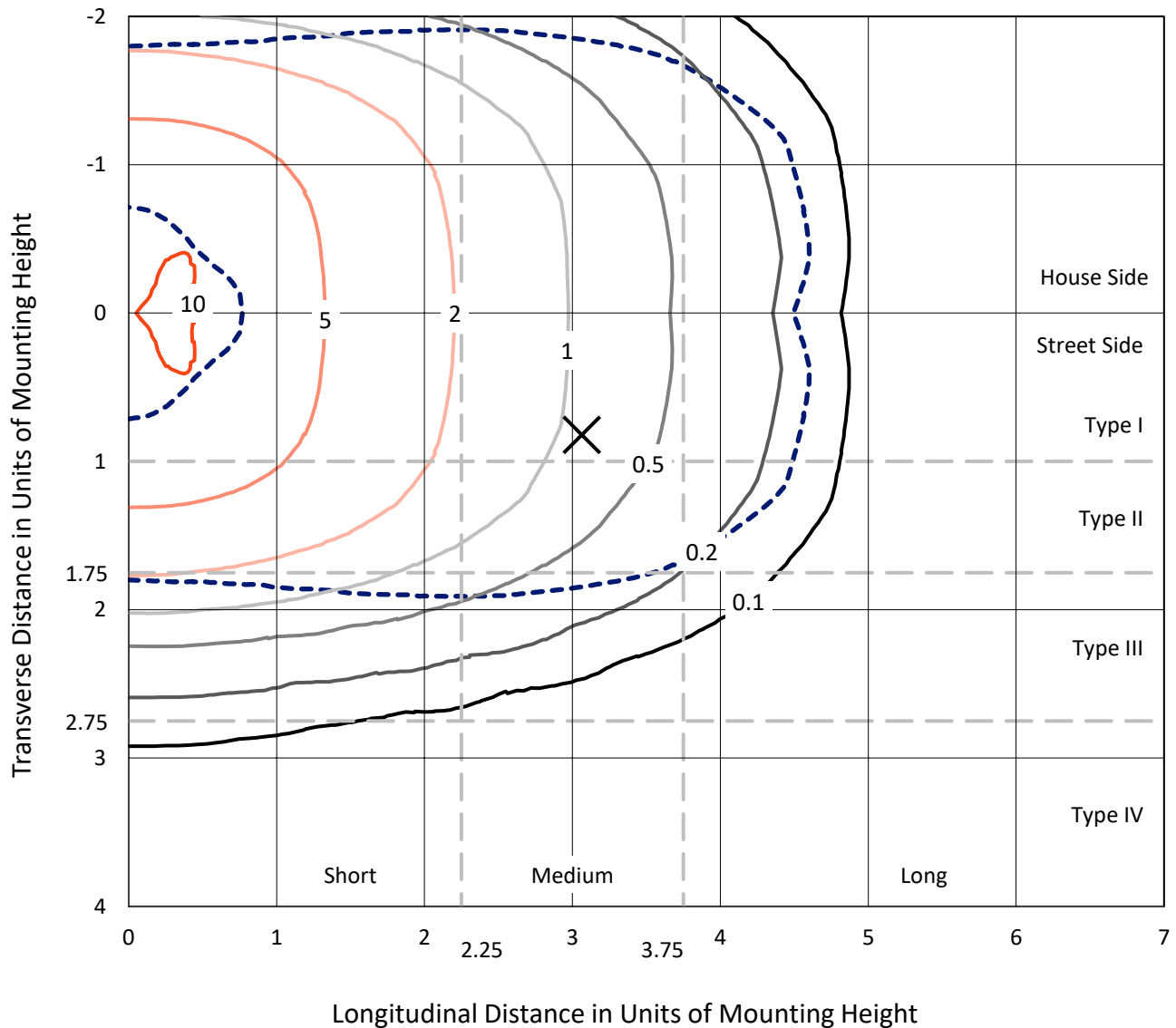


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Iso-Footcandle Lines of Horizontal Illumination

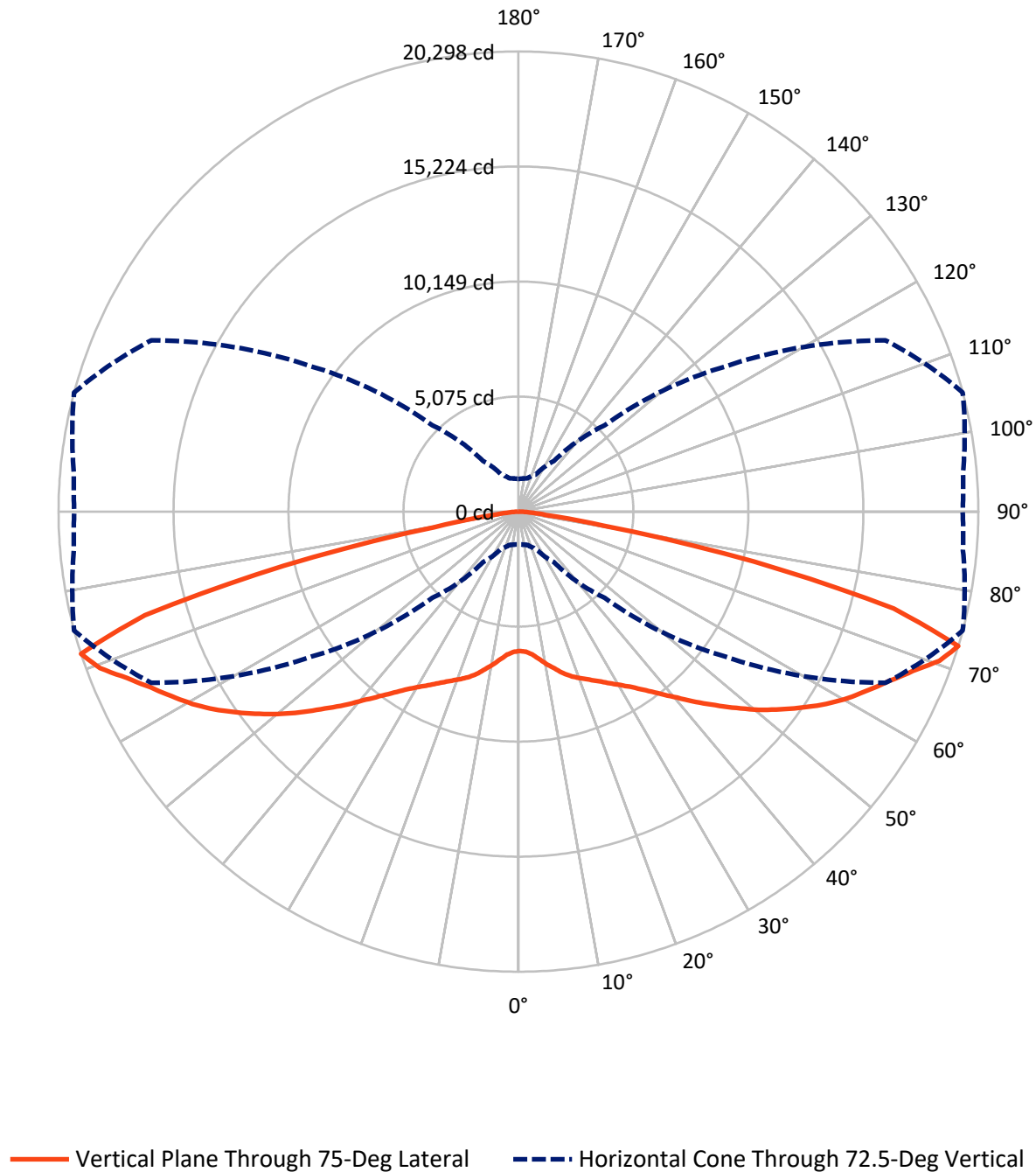
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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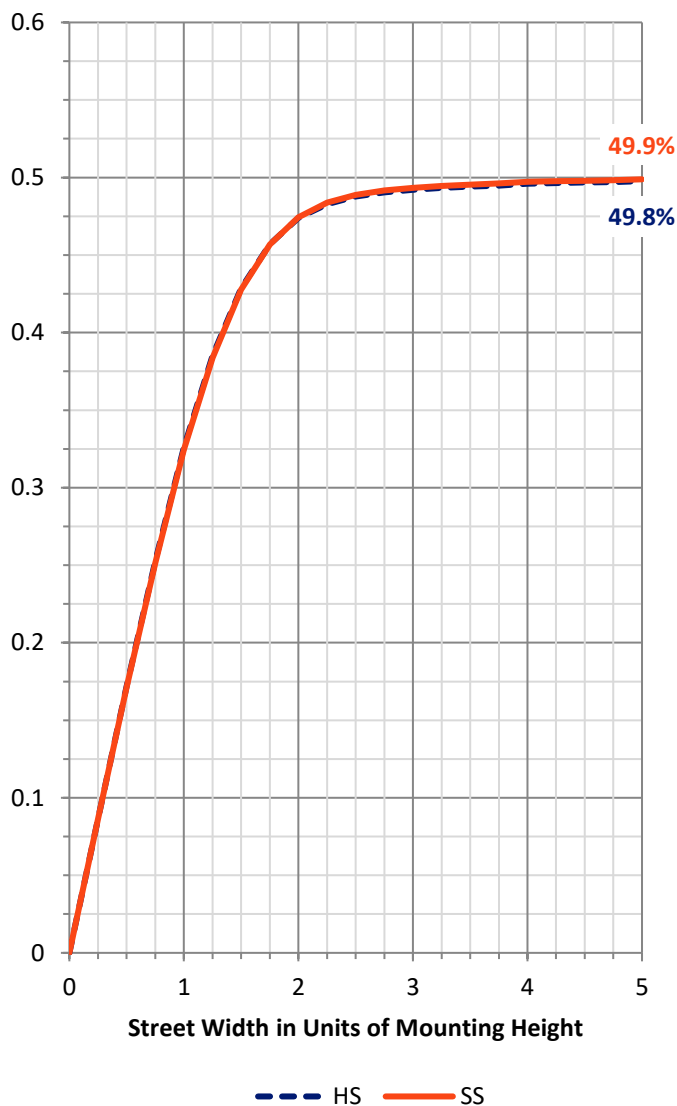
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28700.5	0.0	28700.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28700.5	0.0	28700.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	57401.0	0.0	57401.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.3	1.0
10°-20°	1986.6	3.5
20°-30°	3838.6	6.7
30°-40°	6481.7	11.3
40°-50°	10279.3	17.9
50°-60°	13762.8	24.0
60°-70°	13097.8	22.8
70°-80°	6834.6	11.9
80°-90°	517.3	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°	57401.0	100.0
0°-180°	57401.0	100.0

Coefficient of Utilization



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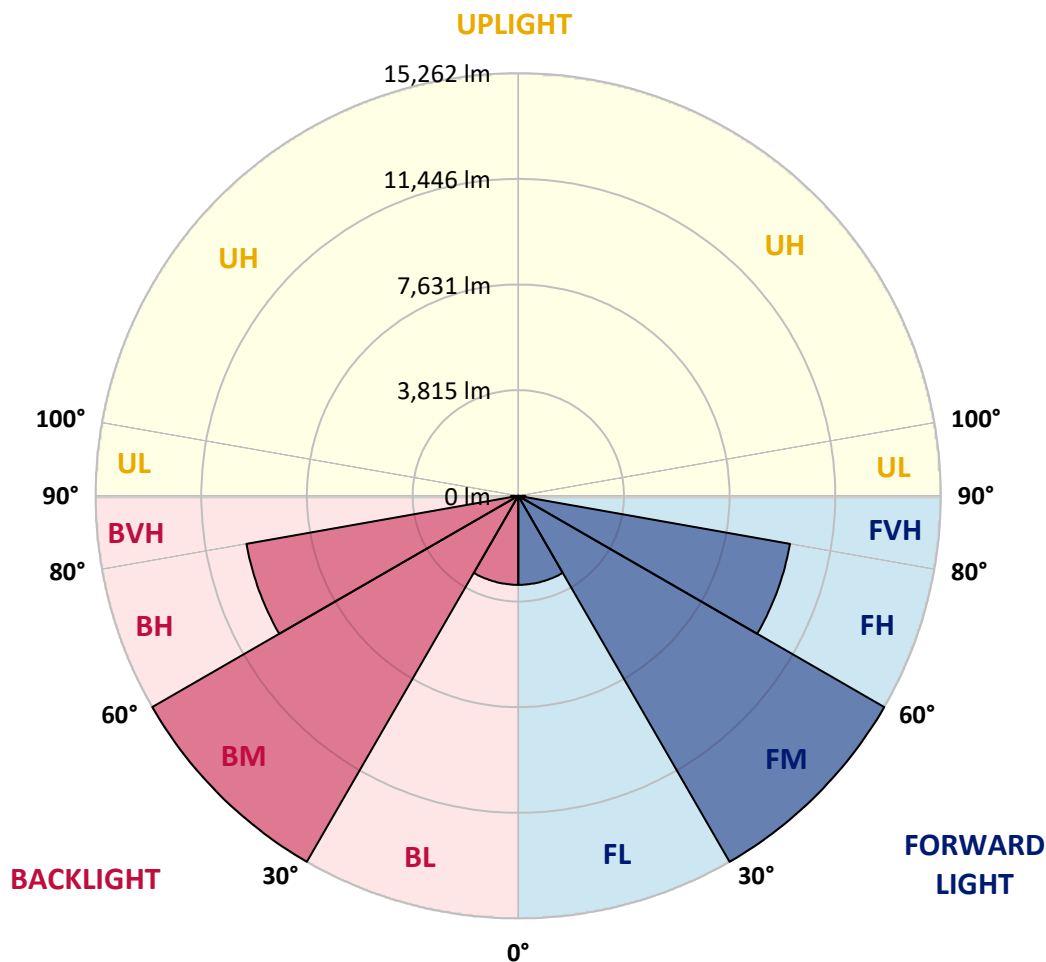
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3213.7	5.6			
FM	(30°-60°)	15261.9	26.6			
FH	(60°-80°)	9966.2	17.4			G4/12000
FVH	(80°-90°)	258.7	0.5			G3/500
BL	(0°-30°)	3213.7	5.6	B4/5000		
BM	(30°-60°)	15261.9	26.6	B5		
BH	(60°-80°)	9966.2	17.4	B5		G5
BVH	(80°-90°)	258.7	0.5			G3/500
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°	6148.7	6148.7	6148.7	6148.7	6148.7	6148.7	6148.7	6148.7	6148.7	6148.7	6148.7
2.5°	6148.7	6142.8	6148.7	6154.5	6151.6	6151.6	6166.3	6175.0	6192.6	6189.7	6186.8
5°	6107.7	6104.7	6128.2	6154.5	6175.0	6210.3	6254.1	6286.4	6327.4	6336.2	6336.2
7.5°	6087.2	6078.4	6119.4	6166.3	6230.8	6318.6	6403.7	6491.5	6561.9	6585.3	6591.3
10°	6101.8	6104.7	6160.4	6248.3	6350.9	6474.0	6594.1	6743.6	6843.3	6866.7	6890.2
12.5°	6169.2	6163.3	6257.1	6397.7	6538.5	6693.8	6834.5	6998.6	7107.0	7162.7	7186.2
15°	6292.3	6280.6	6412.4	6620.5	6825.7	7007.4	7121.7	7277.0	7403.1	7473.4	7499.7
17.5°	6438.8	6444.7	6617.6	6887.2	7156.9	7362.0	7470.4	7549.5	7646.3	7707.8	7737.1
20°	6696.7	6708.4	6901.8	7221.3	7529.0	7763.6	7851.4	7822.1	7848.5	7895.4	7930.5
22.5°	7042.6	7048.4	7265.3	7611.1	7933.5	8191.4	8250.0	8129.9	8056.6	8088.8	8112.3
25°	7444.1	7482.2	7699.1	8053.6	8384.8	8631.0	8657.4	8475.7	8294.0	8302.8	8317.5
27.5°	7933.5	7968.7	8188.4	8540.2	8877.2	9091.1	9088.2	8844.9	8578.2	8510.9	8531.4
30°	8463.9	8502.1	8727.8	9091.1	9404.7	9592.3	9551.3	9261.1	8880.1	8754.1	8768.8
32.5°	9094.1	9117.5	9346.2	9709.5	9999.7	10149.1	10064.2	9706.5	9231.8	9088.2	9123.3
35°	9856.1	9891.2	10061.2	10404.1	10659.1	10782.2	10638.6	10216.6	9683.2	9521.9	9545.4
37.5°	10726.5	10703.0	10896.5	11201.3	11412.2	11488.5	11292.1	10791.0	10199.0	10008.4	10043.7
40°	11635.0	11623.3	11834.3	12127.4	12241.7	12288.5	11998.4	11450.4	10793.9	10588.8	10656.1
42.5°	12458.6	12449.8	12734.0	13059.3	13197.1	13144.3	12778.0	12150.9	11482.6	11248.1	11306.8
45°	13118.0	13106.3	13455.0	13912.2	14181.8	14093.9	13601.5	12924.5	12180.1	11936.8	11992.6
47.5°	13625.0	13630.9	14006.0	14571.6	15043.4	15075.7	14442.7	13712.9	12948.0	12672.5	12754.6
50°	13991.4	14008.9	14410.4	15037.6	15682.4	15966.6	15301.4	14521.8	13742.2	13431.5	13525.3
52.5°	14082.2	14114.5	14597.9	15333.6	16092.6	16634.8	16174.7	15298.4	14495.4	14199.4	14275.6
55°	13598.6	13663.0	14275.6	15310.1	16344.6	17074.4	16942.5	16086.8	15254.5	14949.6	15034.7
57.5°	12487.9	12578.7	13293.8	14644.9	16289.0	17376.3	17537.5	16842.9	16013.6	15720.4	15787.9
60°	10931.6	11040.1	11725.9	13200.1	15503.5	17487.7	17956.6	17578.5	16711.1	16426.8	16488.3
62.5°	8584.1	8724.8	9545.4	11274.5	13844.8	16969.0	18314.2	18243.8	17338.2	16983.6	17024.6
65°	5506.8	5656.4	6520.8	8563.6	11632.1	15380.5	18425.5	18891.5	18000.5	17505.3	17566.9
67.5°	3320.5	3387.9	3815.8	5190.3	8502.1	12986.0	17481.8	19609.6	18774.3	18158.8	18205.7
70°	2124.8	2162.9	2417.9	3047.9	4806.4	9475.1	15143.1	19744.4	19712.1	18830.0	18824.1
72.5°	1442.0	1453.7	1521.1	1805.3	2719.7	5383.7	11169.0	17874.6	20298.3	19694.6	19600.8
75°	1055.0	1119.5	1227.9	1277.8	1544.5	2690.4	6400.7	12558.2	17106.7	17370.5	16731.6
77.5°	785.5	788.3	937.9	996.4	1102.0	1433.2	2707.9	7010.3	10620.9	11151.5	9946.9
80°	665.3	630.1	627.2	803.0	829.4	893.9	1210.4	2420.7	3804.1	2306.5	1743.8
82.5°	553.9	515.8	466.0	627.2	565.6	548.1	524.6	984.7	1210.4	594.9	507.1
85°	386.8	369.3	351.7	410.3	322.4	275.5	252.0	460.1	509.9	252.0	222.7
87.5°	167.1	172.9	175.9	181.7	134.8	96.8	96.8	128.9	128.9	99.6	73.3
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)