

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: P969371

Luminaire Tested: **NAV-SB5D-750-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969371
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-SB5D-750-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55145 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
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



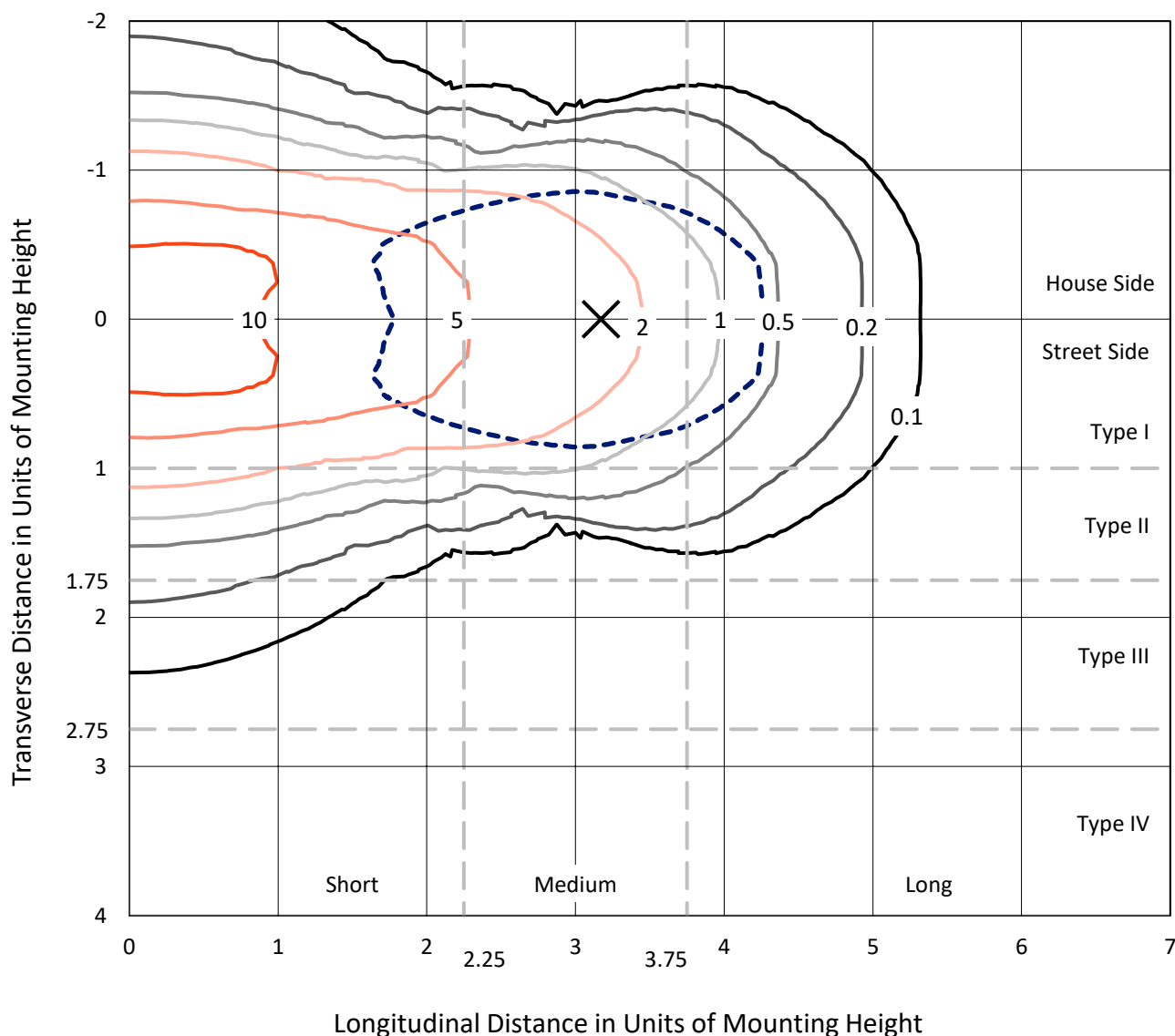
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

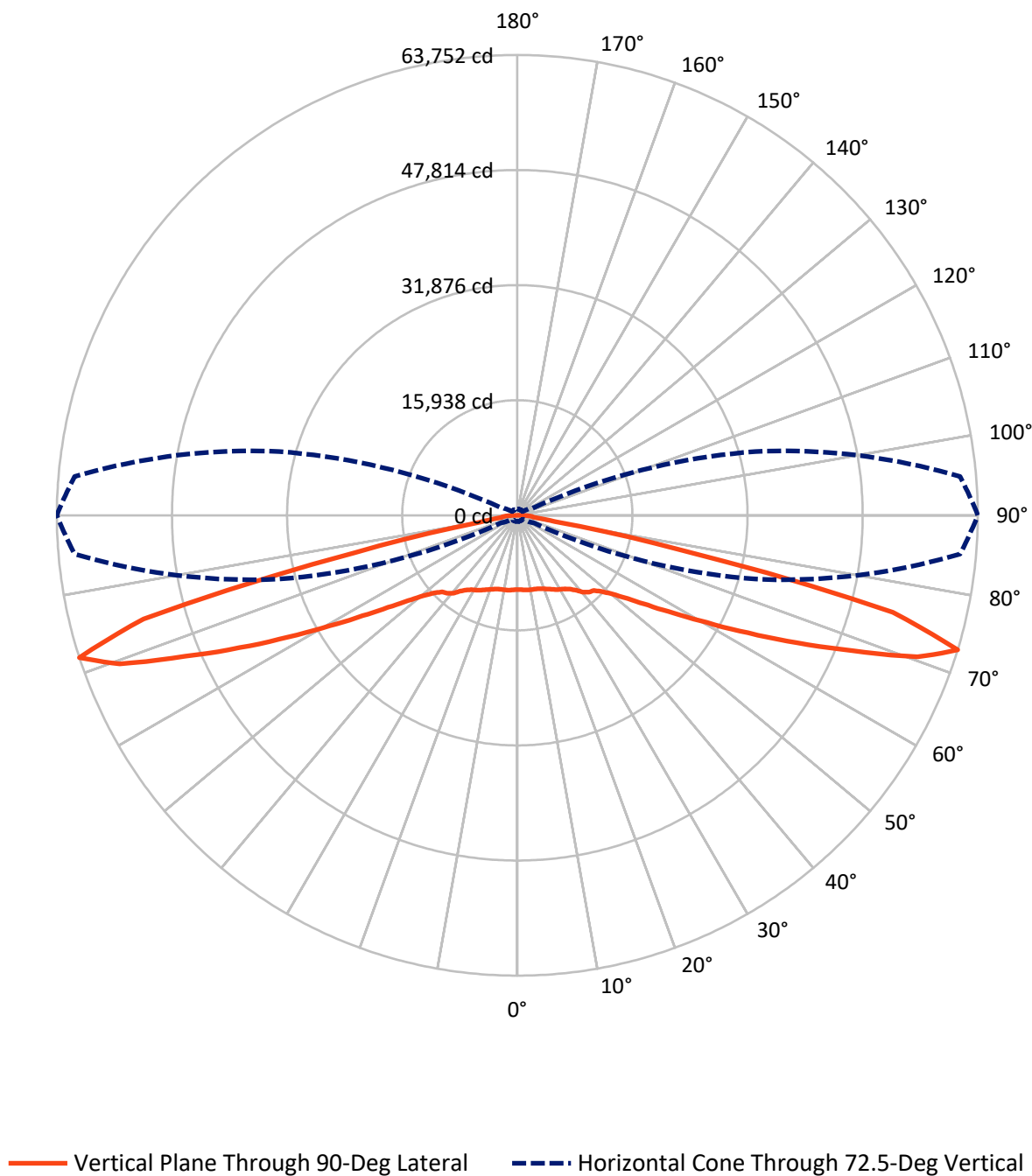


Based on 25 foot mounting height. Maximum calculated value = 16.5 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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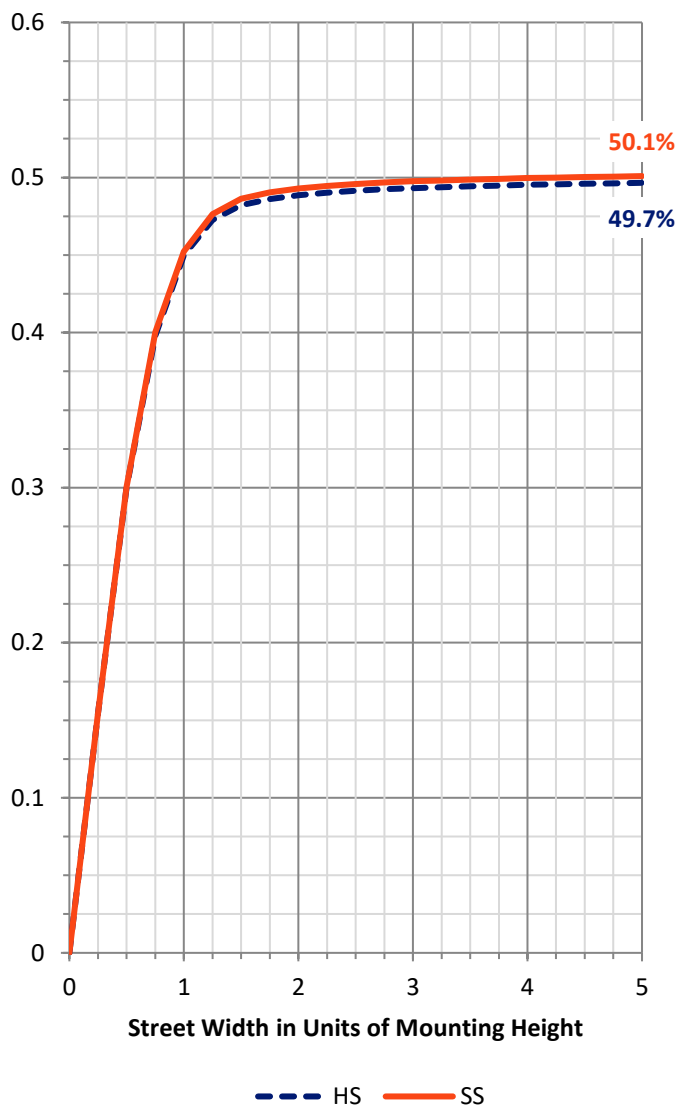
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27572.5	0.0	27572.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27572.5	0.0	27572.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	55145.0	0.0	55145.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	999.1	1.8
10°-20°	3055.0	5.5
20°-30°	5093.9	9.2
30°-40°	7005.7	12.7
40°-50°	8555.8	15.5
50°-60°	9895.7	17.9
60°-70°	11799.0	21.4
70°-80°	8234.9	14.9
80°-90°	505.8	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°	55145.0	100.0
0°-180°	55145.0	100.0

Coefficient of Utilization



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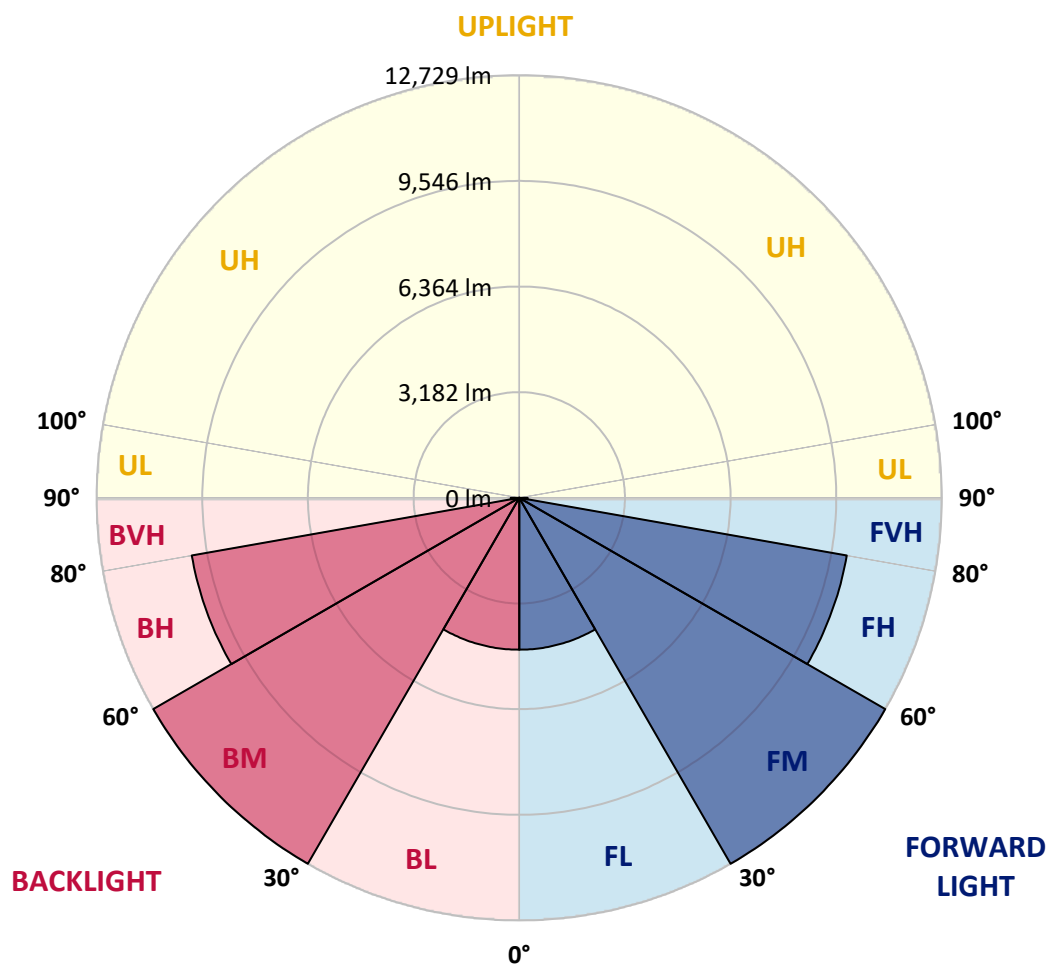
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4574.0	8.3			
FM	(30°-60°)	12728.6	23.1			
FH	(60°-80°)	10017.0	18.2			G4/12000
FVH	(80°-90°)	252.9	0.5			G3/500
BL	(0°-30°)	4574.0	8.3	B4/5000		
BM	(30°-60°)	12728.6	23.1	B5		
BH	(60°-80°)	10017.0	18.2	B5		G5
BVH	(80°-90°)	252.9	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10304.4	10304.4	10304.4	10304.4	10304.4	10304.4	10304.4	10304.4	10304.4	10304.4	10304.4
2.5°	10313.2	10324.9	10324.9	10316.1	10336.6	10319.1	10319.1	10310.3	10319.1	10310.3	10310.3
5°	10365.9	10380.6	10386.5	10383.6	10409.9	10395.2	10395.2	10383.6	10386.5	10377.7	10377.7
7.5°	10465.7	10486.2	10497.8	10512.5	10550.6	10533.0	10521.3	10486.2	10471.5	10448.0	10448.0
10°	10497.8	10521.3	10559.4	10635.6	10723.6	10726.4	10691.3	10603.3	10536.0	10483.2	10474.4
12.5°	10398.2	10430.4	10509.5	10664.9	10861.3	10940.4	10884.7	10738.2	10606.3	10512.5	10497.8
15°	10272.1	10307.4	10427.5	10661.9	10952.1	11136.7	11130.9	10937.5	10726.4	10579.9	10556.5
17.5°	10075.9	10111.0	10283.9	10612.1	11022.4	11327.3	11409.3	11210.0	10914.0	10717.7	10685.4
20°	9721.2	9753.5	9993.8	10453.9	11045.9	11529.5	11743.4	11567.5	11198.3	10931.6	10881.8
22.5°	9261.1	9310.9	9592.3	10181.3	10990.3	11740.5	12124.4	12004.3	11529.5	11160.2	11092.8
25°	8768.8	8821.5	9149.8	9847.3	10846.7	11892.9	12575.7	12499.6	11904.6	11444.4	11350.6
27.5°	8343.8	8399.5	8757.0	9516.1	10623.9	11951.5	13021.2	13059.3	12358.8	11758.1	11658.5
30°	8009.7	8062.4	8443.4	9249.4	10336.6	11892.9	13411.0	13674.7	12821.9	12030.6	11887.0
32.5°	7643.3	7710.8	8112.3	8924.1	9996.7	11752.2	13751.0	14340.1	13358.2	12323.7	12141.9
35°	7180.2	7241.8	7663.8	8478.6	9551.3	11526.5	14035.2	15078.6	14126.1	12769.1	12566.9
37.5°	6617.6	6676.2	7095.3	7921.7	9108.7	11210.0	14252.1	15910.9	15040.4	13411.0	13141.3
40°	6051.9	6107.7	6500.3	7300.5	8578.2	10805.6	14328.3	16725.6	16089.6	14293.1	14005.9
42.5°	5533.3	5583.1	5943.5	6687.9	7983.3	10289.8	14228.6	17434.8	17030.5	14908.6	14539.3
45°	5055.5	5099.5	5418.9	6113.5	7364.9	9662.6	13929.7	18196.8	18150.0	15348.2	14850.0
47.5°	4510.4	4554.4	4885.6	5556.6	6746.6	8927.0	13422.7	18947.1	19706.1	16344.6	15770.2
50°	3845.1	3883.2	4223.2	4914.9	6104.7	8144.4	12719.3	19536.2	21669.7	17854.0	17133.0
52.5°	3056.8	3097.8	3428.9	4120.6	5342.7	7303.3	11793.2	19920.2	23938.2	20057.9	19169.9
55°	2274.3	2303.6	2590.8	3212.0	4399.0	6345.1	10632.6	20028.6	26511.3	23070.7	21959.9
57.5°	1650.0	1667.6	1852.2	2315.3	3335.1	5146.3	9222.9	19747.2	29573.9	26933.3	25535.4
60°	1336.4	1342.2	1398.0	1603.1	2318.2	3792.4	7520.2	18780.0	32897.4	31912.7	30151.3
62.5°	1213.3	1213.3	1227.9	1283.6	1567.9	2502.8	5460.0	16775.5	36461.1	38204.9	35845.7
65°	1128.3	1128.3	1134.2	1160.6	1236.8	1594.3	3446.6	13510.6	39465.2	45575.7	42592.2
67.5°	1052.2	1055.0	1052.2	1060.9	1104.8	1178.1	1998.7	9331.4	41082.9	53213.2	49992.3
70°	973.0	978.9	964.2	964.2	999.4	1002.3	1251.4	5117.0	39740.6	59613.9	58766.8
72.5°	879.2	888.1	864.6	858.7	885.1	873.4	940.7	2455.9	34119.5	61524.7	63752.0
75°	797.1	808.9	756.1	741.5	741.5	732.7	765.0	1260.2	22144.5	50188.6	53682.1
77.5°	723.9	747.3	662.4	615.4	603.7	577.4	624.2	770.8	9686.0	23563.0	23073.6
80°	597.9	630.1	545.1	489.4	468.9	439.6	492.4	539.3	2880.9	5471.7	5240.1
82.5°	445.5	460.1	386.8	348.7	331.2	310.7	369.3	375.2	937.9	1937.2	2189.3
85°	284.2	290.2	237.4	205.1	196.4	187.6	234.4	205.1	357.5	1424.3	2069.1
87.5°	99.6	114.3	90.8	82.1	87.9	73.3	108.4	61.5	99.6	1005.2	1245.6
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)