

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: McGRAW-EDISON

Report Number: P457804

Luminaire Tested: **GALN-SA9A-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32886 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 274
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



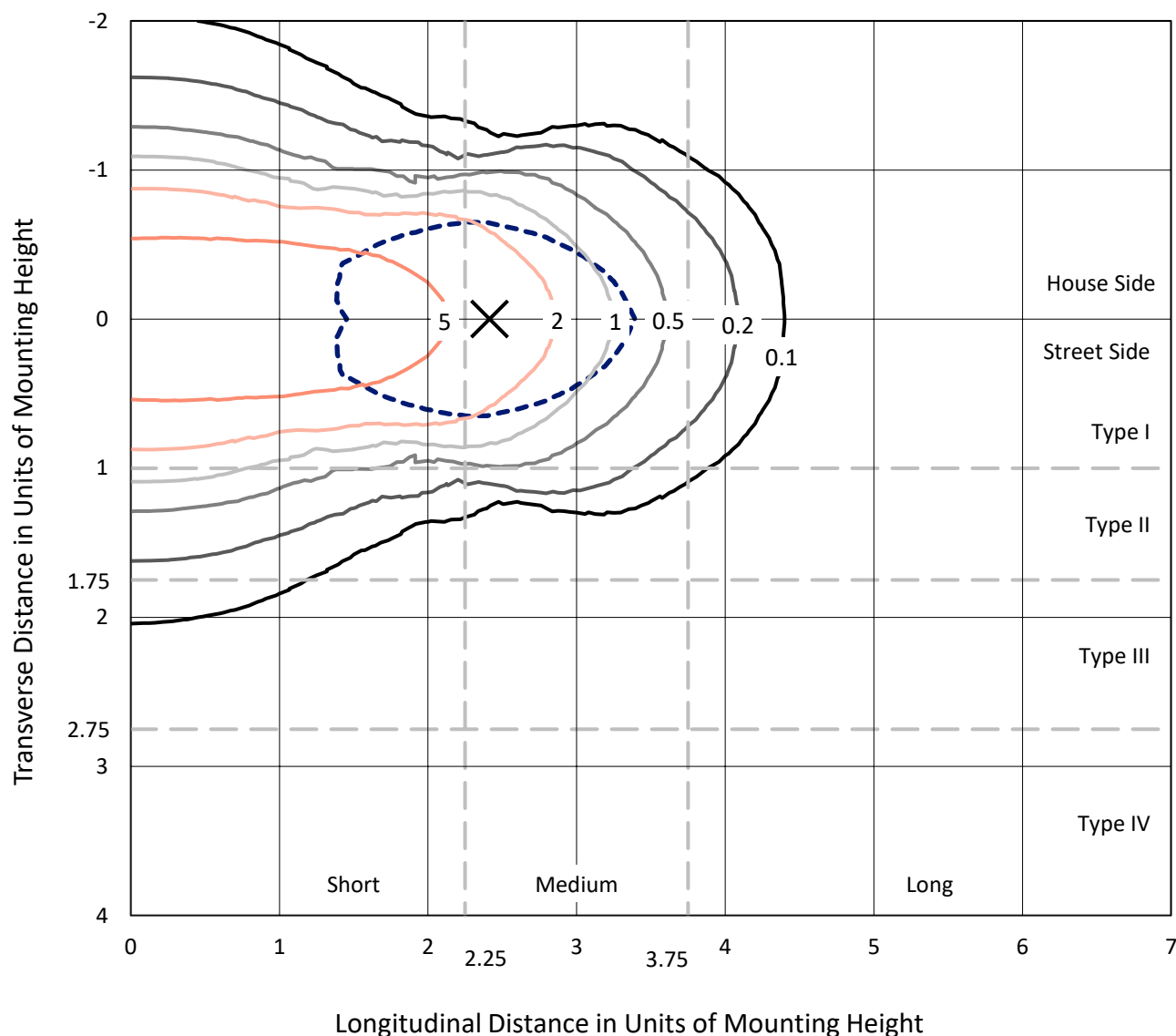
REPORT NUMBER: P457804

CATALOG NUMBER: GALN-SA9A-830-U-T1

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

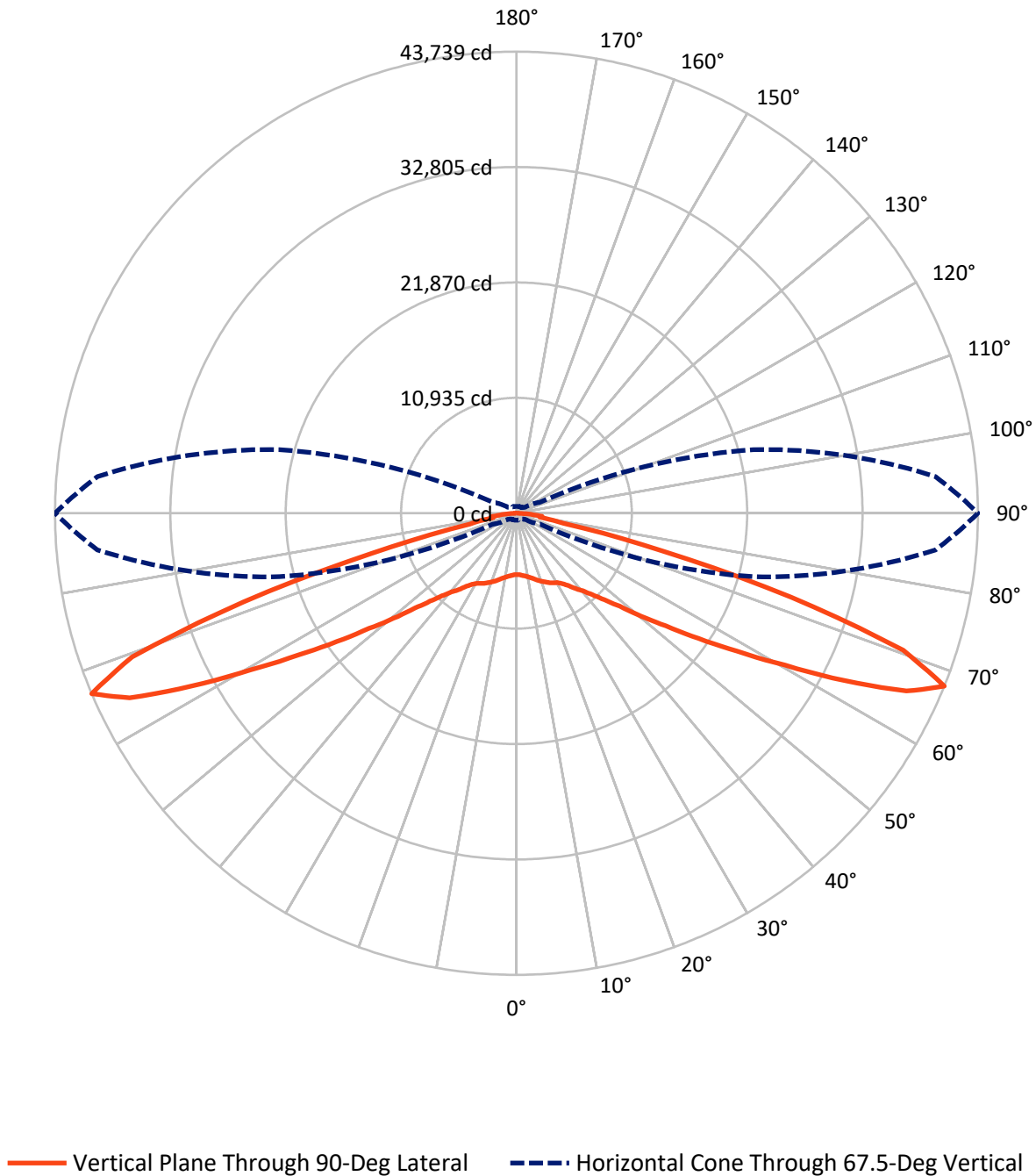


Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type I - Short - N/A

REPORT NUMBER: P457804

CATALOG NUMBER: GALN-SA9A-830-U-T1

Luminous Intensity Polar Plot



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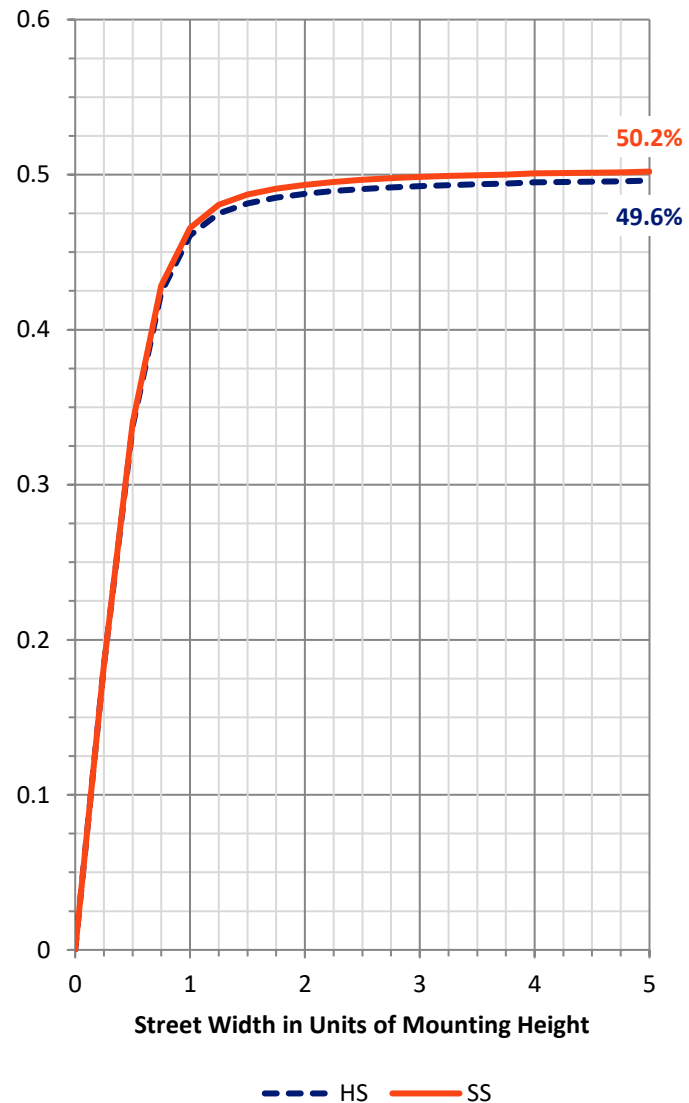
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16443.0	0.0	16443.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16443.0	0.0	16443.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32886.0	0.0	32886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.4	1.8
10°-20°	1857.1	5.6
20°-30°	3108.3	9.5
30°-40°	4210.9	12.8
40°-50°	5333.8	16.2
50°-60°	6663.3	20.3
60°-70°	7832.4	23.8
70°-80°	2996.2	9.1
80°-90°	303.5	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°	32886.0	100.0
0°-180°	32886.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457804

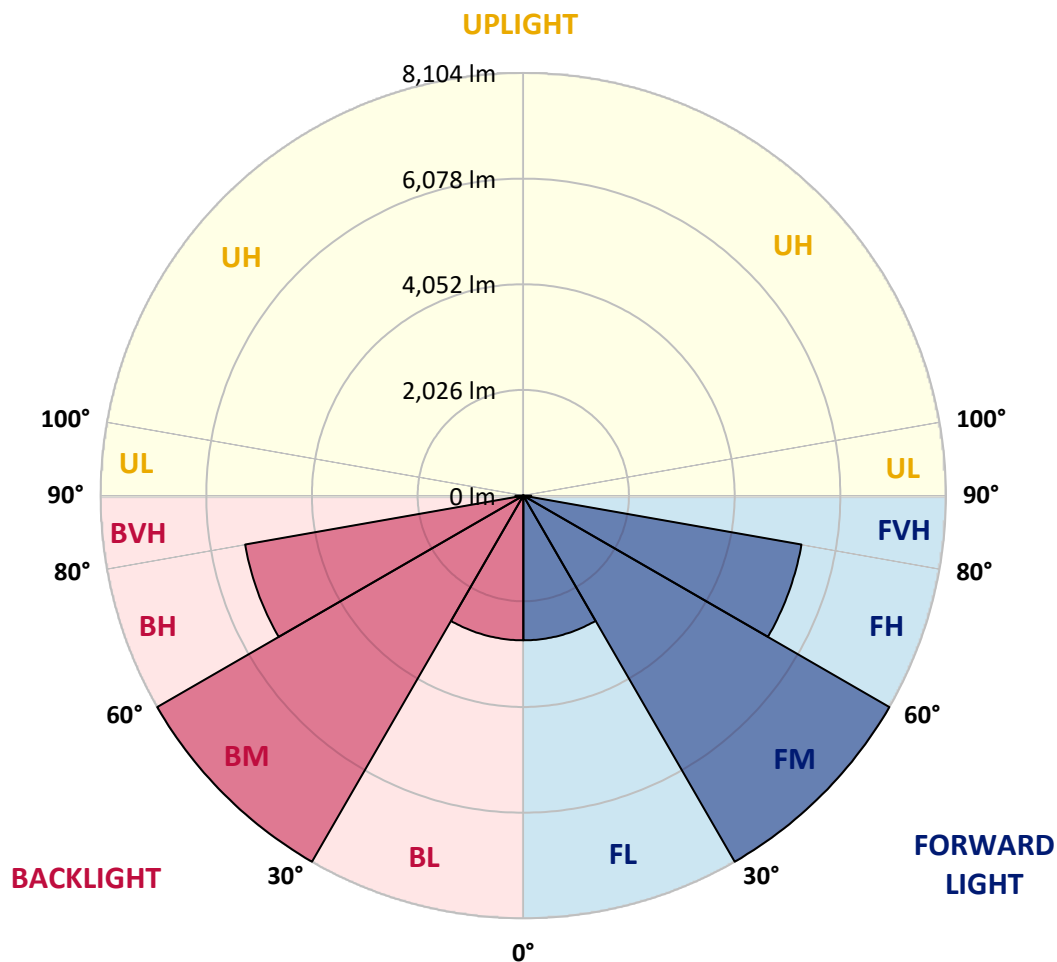
CATALOG NUMBER: GALN-SA9A-830-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2772.9	8.4			
FM	(30°-60°)	8104.0	24.6			
FH	(60°-80°)	5414.3	16.5			G3/7500
FVH	(80°-90°)	151.8	0.5			G2/225
BL	(0°-30°)	2772.9	8.4	B4/5000		
BM	(30°-60°)	8104.0	24.6	B4/8500		
BH	(60°-80°)	5414.3	16.5	B5		G5
BVH	(80°-90°)	151.8	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 I Short





REPORT NUMBER: P457804

CATALOG NUMBER: GALN-SA9A-830-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5821.8	5821.8	5821.8	5821.8	5821.8	5821.8	5821.8	5821.8	5821.8	5821.8	5821.8
2.5°	5896.5	5892.9	5894.7	5892.9	5898.3	5894.7	5872.8	5854.6	5840.1	5841.9	5836.4
5°	6022.2	6024.0	6025.8	6016.7	6029.4	6022.2	5987.6	5958.4	5929.3	5918.4	5914.7
7.5°	6126.0	6135.1	6140.5	6149.6	6171.5	6171.5	6153.3	6111.4	6047.7	6011.2	6009.4
10°	6229.8	6237.0	6253.4	6282.6	6319.0	6353.6	6346.3	6289.9	6207.9	6146.0	6131.4
12.5°	6266.2	6275.3	6329.9	6413.7	6495.6	6563.0	6563.0	6517.5	6411.9	6317.2	6289.9
15°	6138.7	6155.1	6253.4	6431.9	6646.8	6794.3	6827.1	6763.3	6650.4	6504.7	6472.0
17.5°	5885.6	5925.6	6069.5	6333.6	6690.5	6996.4	7091.1	7060.1	6914.5	6728.7	6690.5
20°	5614.2	5658.0	5810.9	6160.6	6654.1	7114.8	7389.8	7397.0	7216.8	6947.2	6890.8
22.5°	5315.6	5348.4	5545.0	5954.8	6544.8	7142.1	7646.5	7772.2	7528.2	7165.8	7085.6
25°	4980.5	5016.9	5222.7	5665.2	6339.0	7111.1	7881.4	8158.2	7854.1	7398.9	7296.9
27.5°	4660.0	4674.6	4894.9	5344.7	6067.7	7031.0	8054.4	8513.3	8214.7	7591.9	7462.6
30°	4352.3	4386.9	4581.7	5026.1	5756.3	6874.4	8203.8	8917.6	8602.6	7794.0	7628.3
32.5°	4026.3	4068.2	4279.4	4729.2	5444.9	6639.5	8294.8	9360.1	9143.4	8121.8	7945.2
35°	3713.1	3740.4	3953.5	4390.5	5140.8	6366.3	8311.2	9859.1	9840.9	8619.0	8384.0
37.5°	3392.6	3432.6	3647.5	4066.4	4818.5	6076.8	8229.3	10389.0	10682.2	9309.1	9056.0
40°	3084.8	3119.4	3330.7	3753.2	4452.4	5723.5	8034.4	10873.4	11663.7	10019.3	9660.6
42.5°	2749.8	2758.9	2990.1	3419.9	4093.7	5313.8	7754.0	11305.0	12758.2	10971.7	10525.6
45°	2369.2	2392.8	2607.7	3030.2	3682.1	4854.9	7373.4	11661.9	14145.8	12292.0	11683.8
47.5°	1988.6	2008.6	2205.3	2622.3	3232.3	4328.6	6787.0	11975.1	15569.8	13969.2	13171.5
50°	1617.1	1628.0	1788.3	2157.9	2726.1	3775.0	6060.4	12075.3	17179.6	16343.8	15325.8
52.5°	1278.4	1294.8	1416.8	1706.3	2185.2	3121.3	5275.5	11827.6	19058.9	19159.1	17724.1
55°	1036.2	1041.6	1132.7	1345.7	1708.1	2436.5	4328.6	11137.4	21080.3	22766.6	20936.4
57.5°	892.3	895.9	946.9	1065.3	1314.8	1837.4	3358.0	9831.8	22895.9	26993.2	24640.4
60°	810.4	812.2	841.3	910.5	1041.6	1409.5	2405.6	7988.9	24687.8	31696.9	29244.0
62.5°	759.4	759.4	779.4	817.6	881.4	1081.7	1742.7	5763.6	25915.1	36469.8	34918.3
65°	710.2	710.2	724.8	752.1	786.7	885.0	1287.5	3758.6	25884.2	39946.2	40625.4
67.5°	653.8	653.8	664.7	692.0	712.0	761.2	994.3	2462.0	23251.0	39869.7	43739.4
70°	586.4	586.4	600.9	624.6	641.0	672.0	784.9	1684.5	17081.3	34042.4	38899.1
72.5°	519.0	520.8	529.9	553.6	566.3	584.6	651.9	1180.0	10478.2	23179.9	27199.0
75°	444.3	448.0	457.1	480.8	491.7	499.0	550.0	841.3	5301.0	12497.8	14229.6
77.5°	358.7	366.0	371.5	397.0	404.3	415.2	453.4	608.2	2327.3	4490.7	4530.7
80°	262.2	271.3	287.7	311.4	316.9	324.1	346.0	431.6	1054.4	2050.5	2227.1
82.5°	193.0	205.8	185.7	216.7	216.7	207.6	244.0	289.5	484.4	2030.5	2429.3
85°	105.6	107.4	96.5	111.1	118.4	116.5	129.3	142.0	234.9	1354.8	1396.7
87.5°	25.5	27.3	29.1	34.6	41.9	41.9	45.5	40.1	76.5	438.9	251.3
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)