

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: P457340

Luminaire Tested: **GALN-SA8C-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457340
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-SA8C-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45033 lumens
Efficiency: N/A
Efficacy: 105.0 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): 429
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

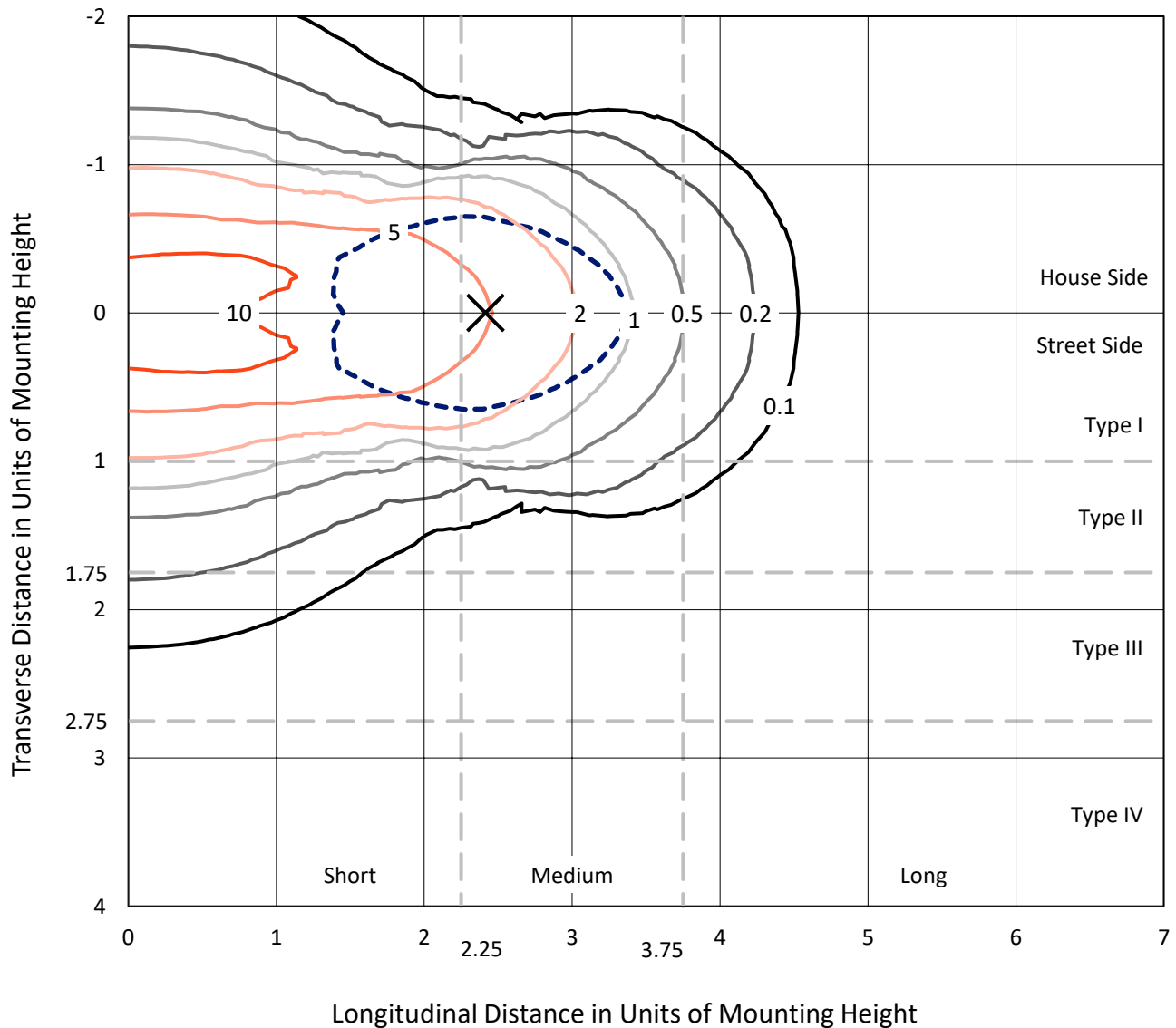


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

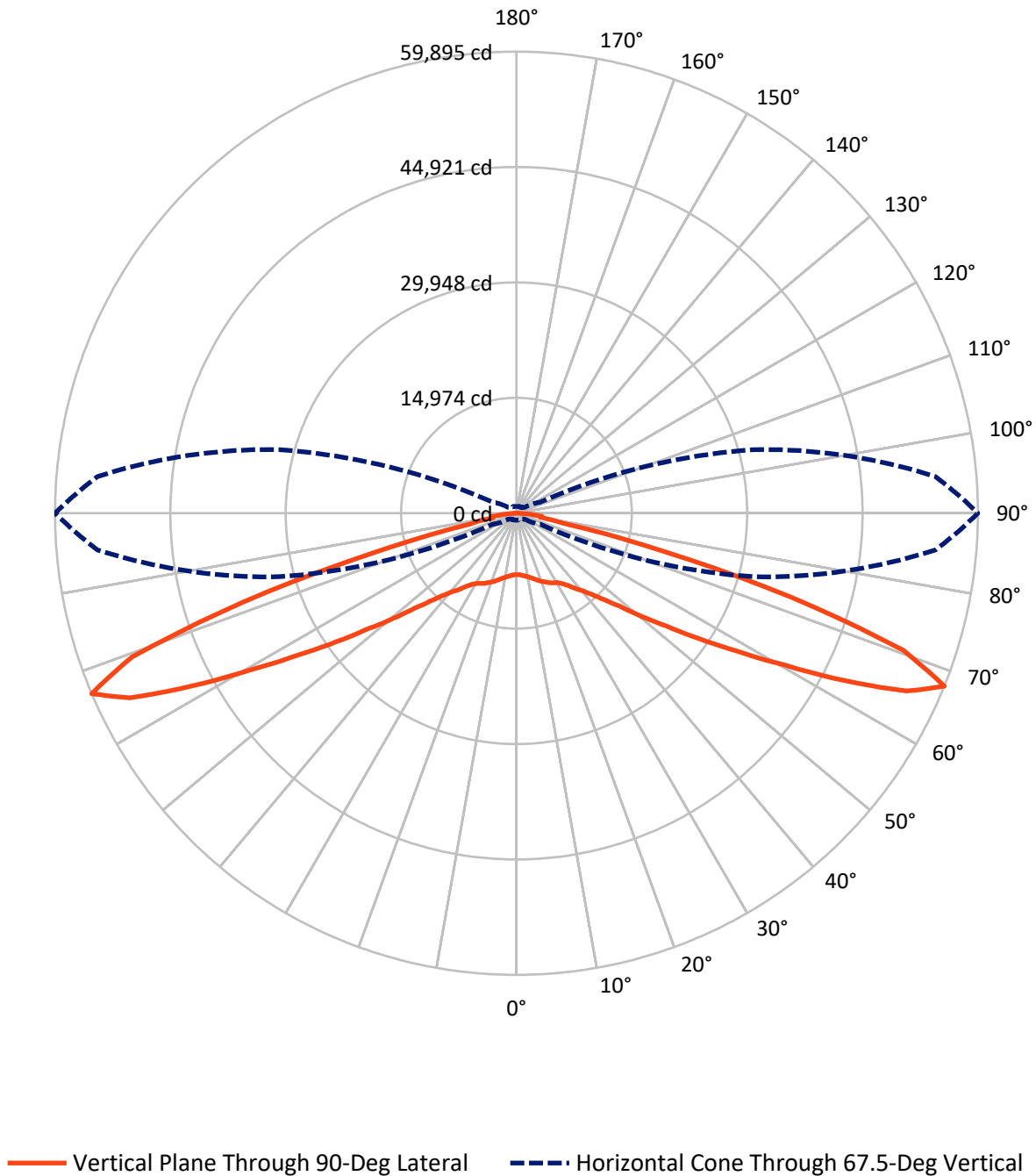


Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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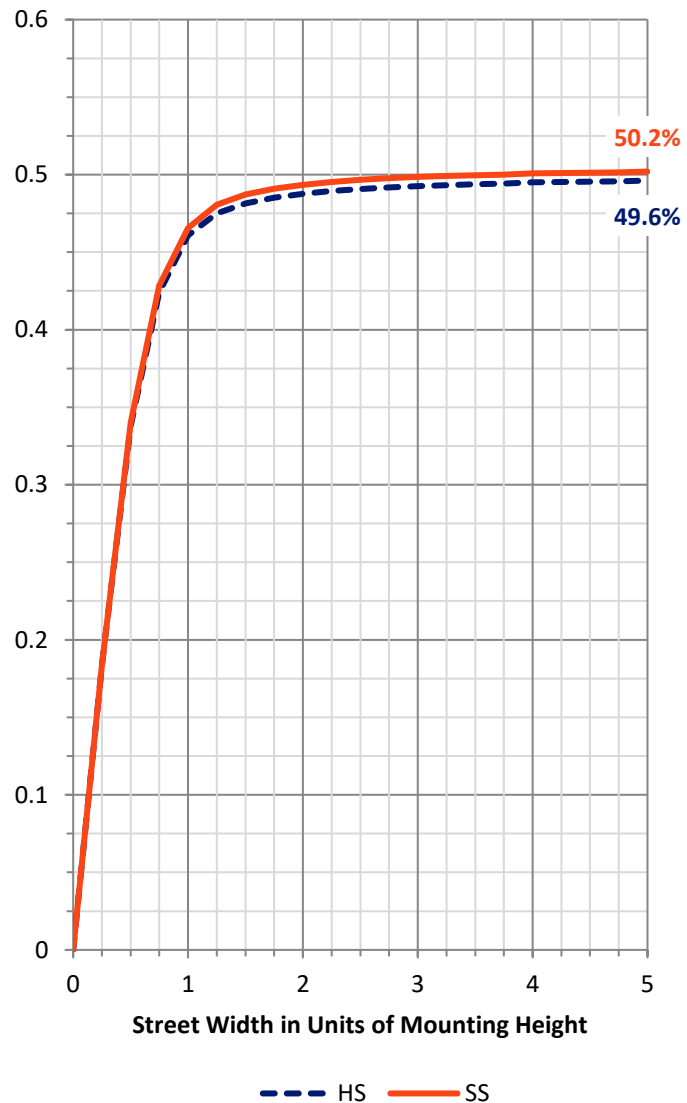
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22516.5	0.0	22516.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22516.5	0.0	22516.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	45033.0	0.0	45033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.8	1.8
10°-20°	2543.0	5.6
20°-30°	4256.4	9.5
30°-40°	5766.3	12.8
40°-50°	7303.9	16.2
50°-60°	9124.5	20.3
60°-70°	10725.4	23.8
70°-80°	4103.0	9.1
80°-90°	415.7	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°	45033.0	100.0
0°-180°	45033.0	100.0

Coefficient of Utilization



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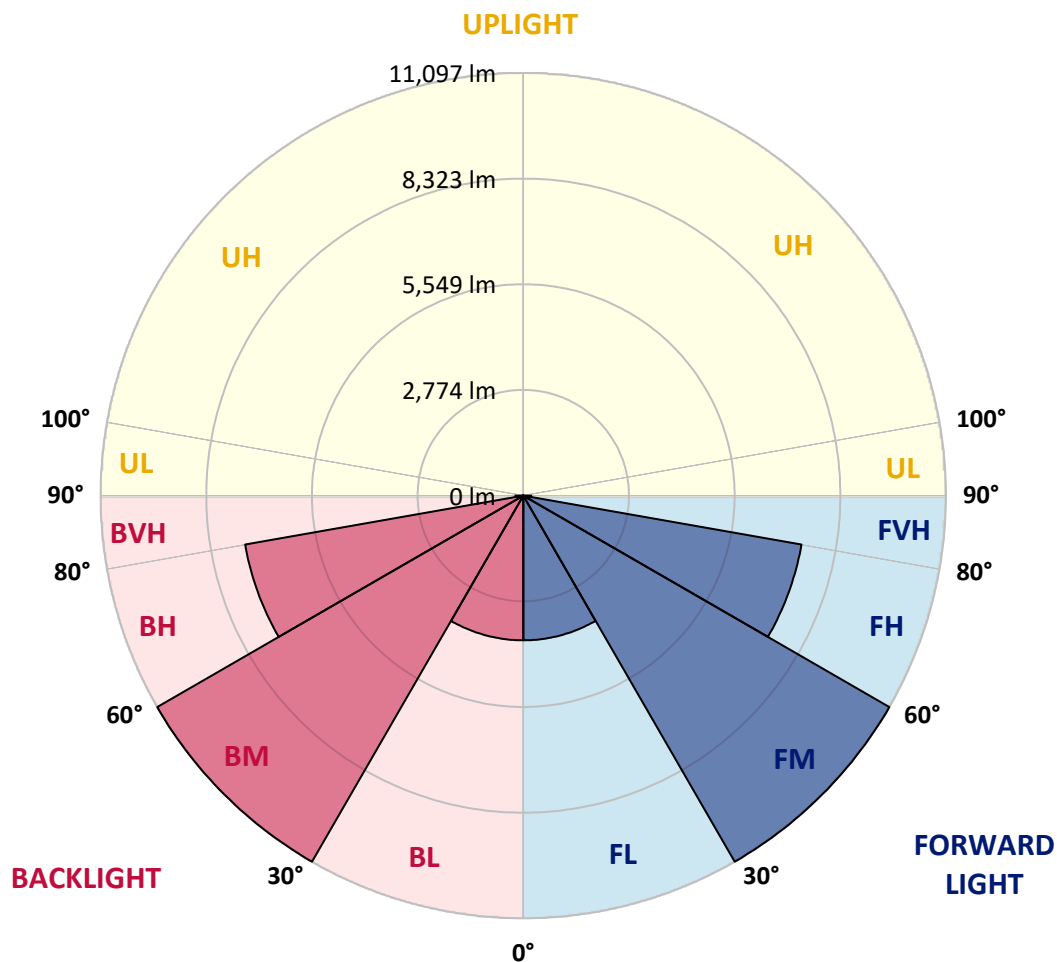
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3797.1	8.4			
FM	(30°-60°)	11097.4	24.6			
FH	(60°-80°)	7414.2	16.5			G3/7500
FVH	(80°-90°)	207.8	0.5			G2/225
BL	(0°-30°)	3797.1	8.4	B4/5000		
BM	(30°-60°)	11097.4	24.6	B5		
BH	(60°-80°)	7414.2	16.5	B5		G5
BVH	(80°-90°)	207.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7972.2	7972.2	7972.2	7972.2	7972.2	7972.2	7972.2	7972.2	7972.2	7972.2	7972.2
2.5°	8074.5	8069.5	8072.0	8069.5	8077.0	8072.0	8042.1	8017.1	7997.2	7999.7	7992.2
5°	8246.5	8249.0	8251.5	8239.1	8256.5	8246.5	8199.2	8159.3	8119.4	8104.4	8099.4
7.5°	8388.7	8401.2	8408.6	8421.1	8451.0	8451.0	8426.1	8368.7	8281.5	8231.6	8229.1
10°	8530.8	8540.8	8563.2	8603.1	8653.0	8700.4	8690.4	8613.1	8500.9	8416.1	8396.2
12.5°	8580.7	8593.2	8668.0	8782.7	8894.9	8987.2	8987.2	8924.8	8780.2	8650.5	8613.1
15°	8406.1	8428.6	8563.2	8807.6	9101.9	9303.9	9348.7	9261.5	9106.9	8907.4	8862.5
17.5°	8059.5	8114.4	8311.4	8673.0	9161.7	9580.7	9710.3	9667.9	9468.4	9214.1	9161.7
20°	7688.0	7747.8	7957.3	8436.1	9111.8	9742.7	10119.3	10129.3	9882.4	9513.3	9436.0
22.5°	7279.0	7323.9	7593.2	8154.3	8962.2	9780.1	10470.9	10643.0	10308.8	9812.6	9702.8
25°	6820.2	6870.0	7151.8	7757.8	8680.4	9737.8	10792.6	11171.6	10755.2	10131.8	9992.1
27.5°	6381.3	6401.2	6703.0	7318.9	8308.9	9628.0	11029.5	11657.9	11248.9	10396.1	10219.0
30°	5959.9	6007.2	6274.1	6882.5	7882.5	9413.6	11234.0	12211.5	11780.1	10672.9	10446.0
32.5°	5513.5	5570.8	5860.1	6476.0	7456.1	9091.9	11358.6	12817.4	12520.7	11121.7	10879.9
35°	5084.6	5122.0	5413.7	6012.2	7039.6	8717.8	11381.1	13500.7	13475.8	11802.5	11480.8
37.5°	4645.7	4700.6	4994.8	5568.4	6598.2	8321.4	11268.9	14226.4	14627.8	12747.6	12401.0
40°	4224.3	4271.6	4560.9	5139.4	6097.0	7837.6	11002.0	14889.7	15971.9	13720.1	13228.9
42.5°	3765.4	3777.9	4094.6	4683.1	5605.8	7276.5	10618.0	15480.7	17470.6	15024.3	14413.4
45°	3244.3	3276.7	3570.9	4149.5	5042.2	6648.1	10096.8	15969.4	19370.8	16832.2	15999.3
47.5°	2723.1	2750.5	3019.8	3590.9	4426.3	5927.4	9293.9	16398.3	21320.8	19128.9	18036.7
50°	2214.4	2229.3	2448.8	2955.0	3733.0	5169.4	8298.9	16535.5	23525.2	22380.6	20986.7
52.5°	1750.6	1773.0	1940.1	2336.6	2992.4	4274.1	7224.1	16196.3	26098.7	26235.8	24270.8
55°	1418.9	1426.4	1551.1	1842.8	2339.1	3336.5	5927.4	15251.2	28866.7	31175.8	28669.7
57.5°	1221.9	1226.9	1296.7	1458.8	1800.4	2516.1	4598.3	13463.3	31352.8	36963.6	33741.8
60°	1109.7	1112.2	1152.1	1246.8	1426.4	1930.1	3294.1	10939.7	33806.6	43404.7	40045.7
62.5°	1039.9	1039.9	1067.3	1119.7	1206.9	1481.2	2386.4	7892.4	35487.3	49940.6	47816.0
65°	972.5	972.5	992.5	1029.9	1077.3	1211.9	1763.0	5146.9	35444.9	54701.0	55631.1
67.5°	895.2	895.2	910.2	947.6	975.0	1042.4	1361.5	3371.4	31839.1	54596.3	59895.3
70°	803.0	803.0	822.9	855.3	877.8	920.2	1074.8	2306.6	23390.6	46616.6	53267.2
72.5°	710.7	713.2	725.7	758.1	775.5	800.5	892.7	1615.9	14348.5	31741.8	37245.4
75°	608.5	613.4	625.9	658.3	673.3	683.3	753.1	1152.1	7259.1	17114.0	19485.5
77.5°	491.3	501.2	508.7	543.6	553.6	568.6	620.9	832.9	3186.9	6149.4	6204.2
80°	359.1	371.6	394.0	426.4	433.9	443.9	473.8	591.0	1443.8	2807.9	3049.8
82.5°	264.3	281.8	254.4	296.7	296.7	284.3	334.2	396.5	663.3	2780.4	3326.5
85°	144.6	147.1	132.2	152.1	162.1	159.6	177.1	194.5	321.7	1855.3	1912.6
87.5°	34.9	37.4	39.9	47.4	57.4	57.4	62.3	54.9	104.7	601.0	344.1
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)