

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: P455310

Luminaire Tested: **GALN-SA6C-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455310
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-SA6C-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34804 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

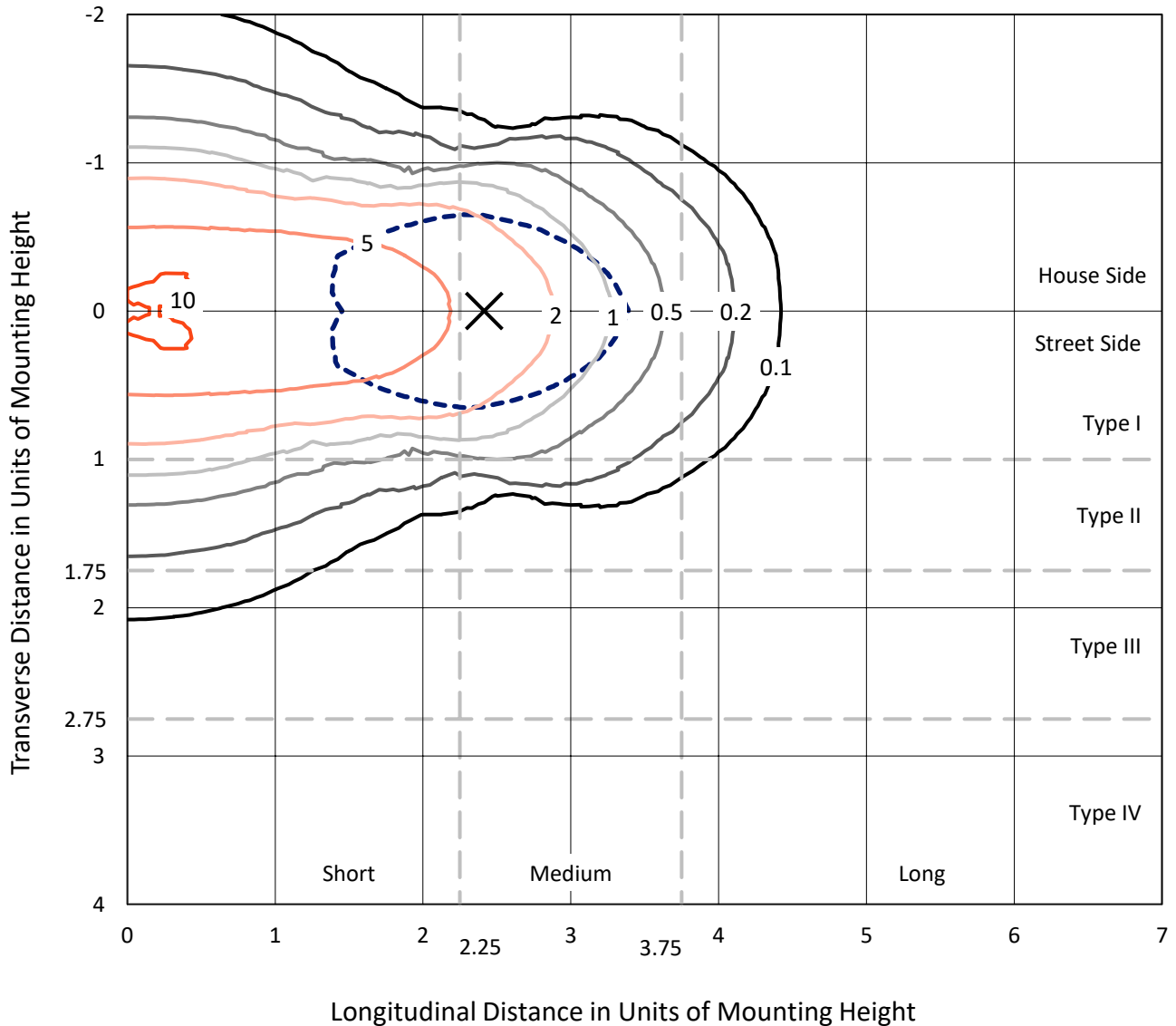
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455310
 CATALOG NUMBER: GALN-SA6C-727-U-T1

Iso-Footcandle Lines of Horizontal Illumination

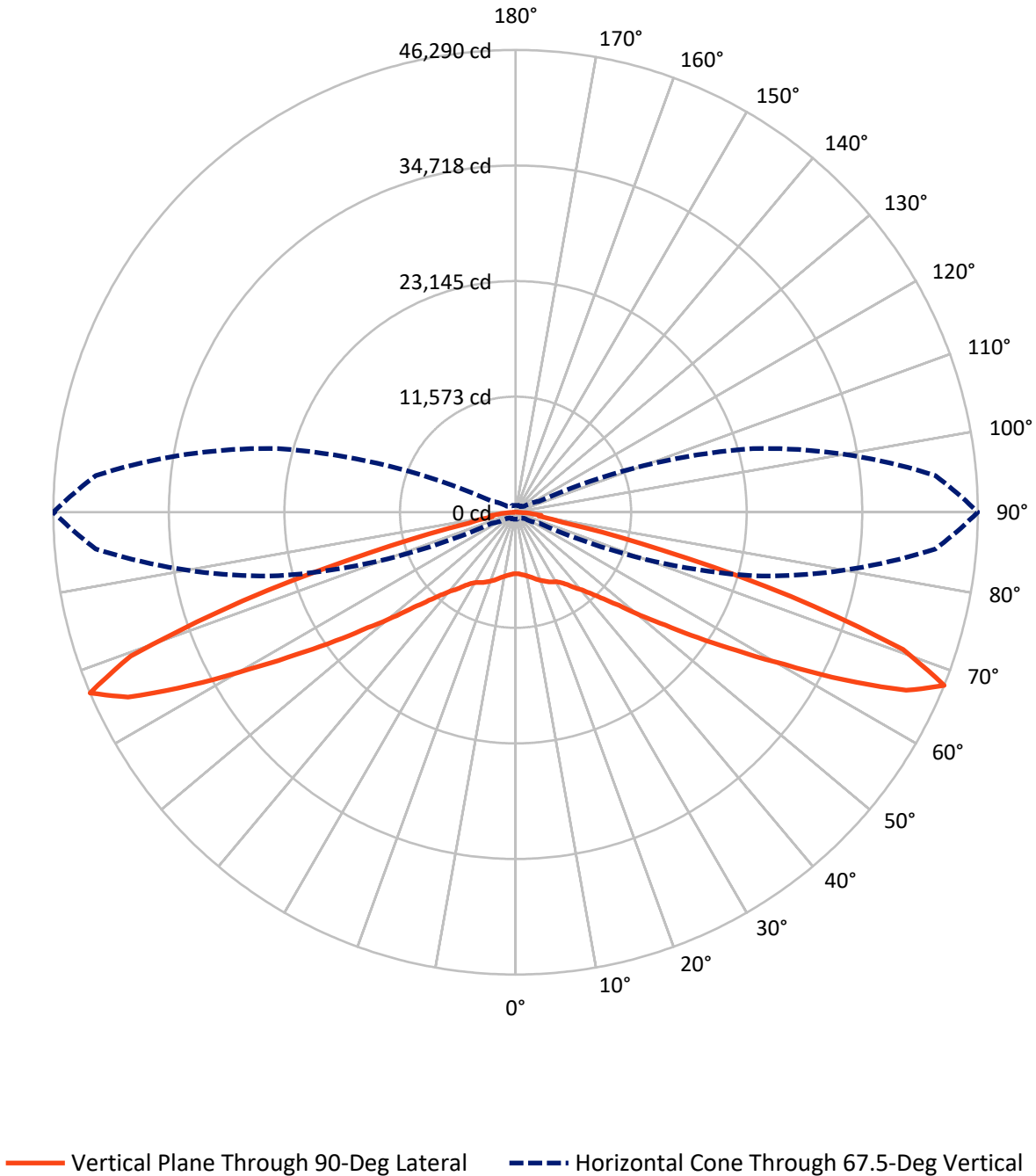
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type I - Short - N/A

REPORT NUMBER: P455310
CATALOG NUMBER: GALN-SA6C-727-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P455310

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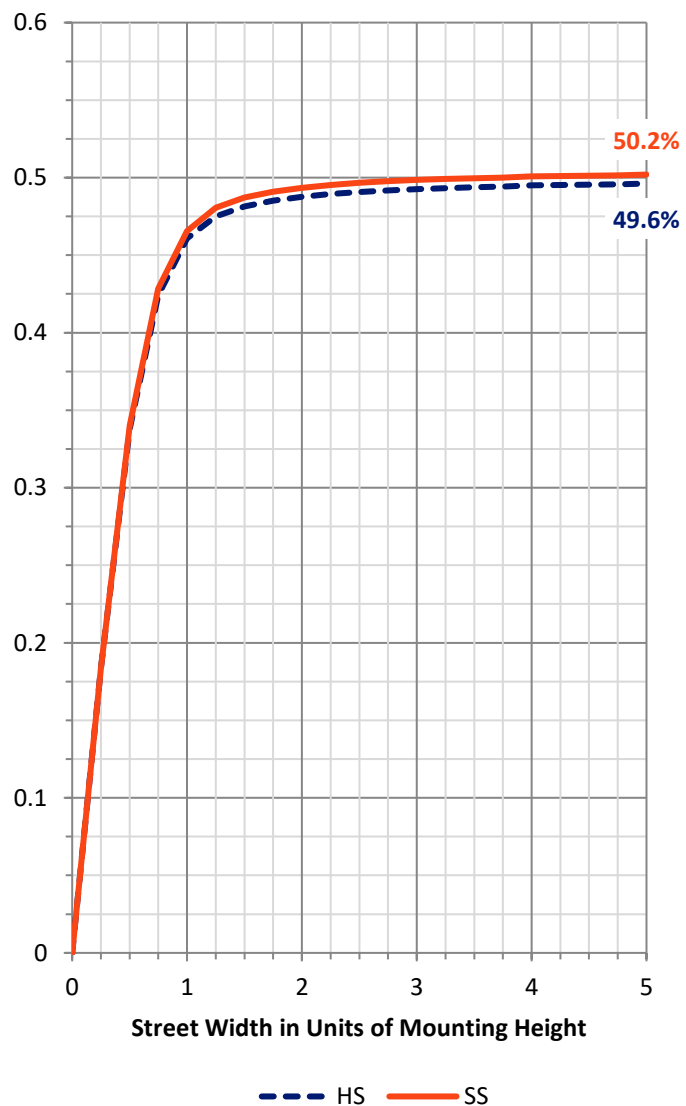
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17402.0	0.0	17402.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17402.0	0.0	17402.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34804.0	0.0	34804.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.3	1.8
10°-20°	1965.4	5.6
20°-30°	3289.6	9.5
30°-40°	4456.5	12.8
40°-50°	5644.9	16.2
50°-60°	7051.9	20.3
60°-70°	8289.2	23.8
70°-80°	3171.0	9.1
80°-90°	321.3	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°	34804.0	100.0
0°-180°	34804.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455310

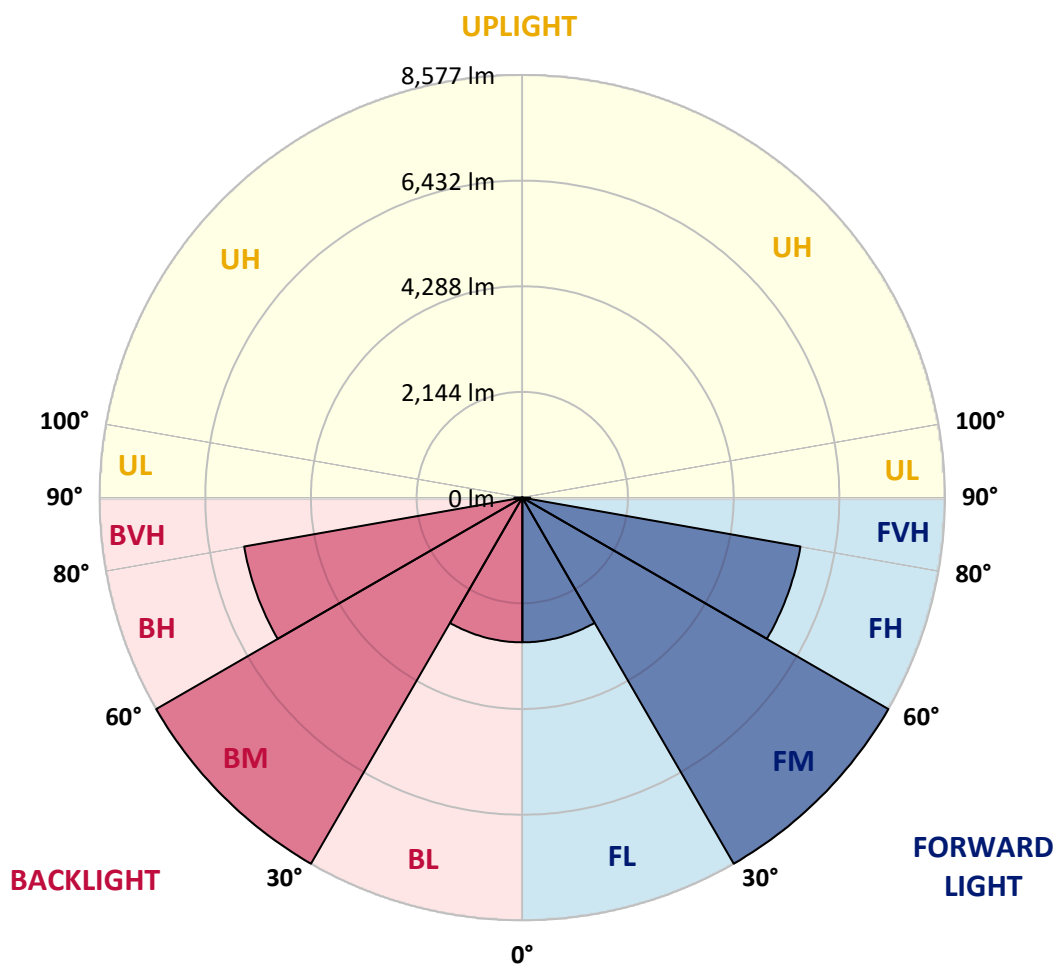
CATALOG NUMBER: GALN-SA6C-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2934.6	8.4			
FM	(30°-60°)	8576.7	24.6			
FH	(60°-80°)	5730.1	16.5			G3/7500
FVH	(80°-90°)	160.6	0.5			G2/225
BL	(0°-30°)	2934.6	8.4	B4/5000		
BM	(30°-60°)	8576.7	24.6	B5		
BH	(60°-80°)	5730.1	16.5	B5		G5
BVH	(80°-90°)	160.6	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°	6161.4	6161.4	6161.4	6161.4	6161.4	6161.4	6161.4	6161.4	6161.4	6161.4	6161.4
2.5°	6240.4	6236.6	6238.5	6236.6	6242.3	6238.5	6215.4	6196.1	6180.7	6182.6	6176.8
5°	6373.4	6375.3	6377.2	6367.6	6381.1	6373.4	6336.8	6305.9	6275.1	6263.5	6259.7
7.5°	6483.2	6492.9	6498.7	6508.3	6531.4	6531.4	6512.1	6467.8	6400.4	6361.8	6359.9
10°	6593.1	6600.8	6618.1	6649.0	6687.5	6724.1	6716.4	6656.7	6570.0	6504.4	6489.0
12.5°	6631.6	6641.3	6699.1	6787.7	6874.5	6945.8	6945.8	6897.6	6785.8	6685.6	6656.7
15°	6496.7	6514.1	6618.1	6807.0	7034.4	7190.5	7225.2	7157.8	7038.3	6884.1	6849.4
17.5°	6228.8	6271.2	6423.5	6702.9	7080.7	7404.5	7504.7	7471.9	7317.7	7121.2	7080.7
20°	5941.7	5987.9	6149.8	6519.9	7042.1	7529.7	7820.7	7828.5	7637.7	7352.4	7292.7
22.5°	5625.6	5660.3	5868.5	6302.1	6926.5	7558.6	8092.5	8225.5	7967.2	7583.7	7498.9
25°	5271.0	5309.6	5527.3	5995.6	6708.7	7525.9	8341.1	8634.0	8312.2	7830.4	7722.5
27.5°	4931.8	4947.2	5180.4	5656.5	6421.6	7441.1	8524.2	9009.9	8693.8	8034.7	7897.8
30°	4606.1	4642.7	4848.9	5319.2	6092.0	7275.3	8682.2	9437.7	9104.3	8248.6	8073.2
32.5°	4261.1	4305.5	4529.0	5005.0	5762.5	7026.7	8778.6	9906.0	9676.7	8595.5	8408.6
35°	3929.6	3958.6	4184.0	4646.6	5440.6	6737.6	8795.9	10434.1	10414.8	9121.6	8873.0
37.5°	3590.5	3632.9	3860.3	4303.5	5099.5	6431.2	8709.2	10994.9	11305.2	9852.1	9584.2
40°	3264.7	3301.4	3524.9	3972.0	4712.1	6057.3	8503.0	11507.6	12344.0	10603.7	10224.0
42.5°	2910.1	2919.8	3164.5	3619.4	4332.4	5623.7	8206.2	11964.3	13502.3	11611.6	11139.5
45°	2507.3	2532.4	2759.8	3206.9	3896.9	5138.0	7803.4	12342.1	14970.8	13008.9	12365.2
47.5°	2104.5	2125.7	2333.9	2775.2	3420.9	4581.1	7182.8	12673.5	16477.9	14783.9	13939.7
50°	1711.4	1723.0	1892.6	2283.8	2885.1	3995.2	6413.9	12779.5	18181.6	17297.0	16219.7
52.5°	1352.9	1370.3	1499.4	1805.8	2312.7	3303.3	5583.2	12517.4	20170.5	20276.5	18757.8
55°	1096.6	1102.4	1198.7	1424.2	1807.8	2578.6	4581.1	11787.0	22309.7	24094.4	22157.5
57.5°	944.3	948.2	1002.2	1127.4	1391.5	1944.6	3553.8	10405.2	24231.2	28567.5	26077.5
60°	857.6	859.5	890.4	963.6	1102.4	1491.7	2545.9	8454.8	26127.6	33545.6	30949.6
62.5°	803.7	803.7	824.9	865.3	932.8	1144.8	1844.4	6099.7	27426.6	38596.9	36954.9
65°	751.6	751.6	767.0	796.0	832.6	936.6	1362.6	3977.8	27393.8	42276.0	42994.8
67.5°	691.9	691.9	703.4	732.4	753.6	805.6	1052.3	2605.6	24607.0	42195.0	46290.4
70°	620.6	620.6	636.0	661.0	678.4	711.2	830.6	1782.7	18077.5	36027.9	41167.8
72.5°	549.3	551.2	560.8	585.9	599.4	618.6	690.0	1248.9	11089.3	24531.9	28785.3
75°	470.2	474.1	483.7	508.8	520.4	528.1	582.0	890.4	5610.2	13226.7	15059.5
77.5°	379.7	387.4	393.2	420.1	427.8	439.4	479.9	643.7	2463.0	4752.6	4795.0
80°	277.5	287.2	304.5	329.6	335.3	343.0	366.2	456.8	1115.9	2170.1	2357.0
82.5°	204.3	217.8	196.6	229.3	229.3	219.7	258.3	306.4	512.6	2148.9	2570.9
85°	111.8	113.7	102.1	117.6	125.3	123.3	136.8	150.3	248.6	1433.9	1478.2
87.5°	27.0	28.9	30.8	36.6	44.3	44.3	48.2	42.4	80.9	464.5	266.0
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)