

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: P452700

Luminaire Tested: **GALN-SA3C-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452700
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-SA3C-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 16648 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 160
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



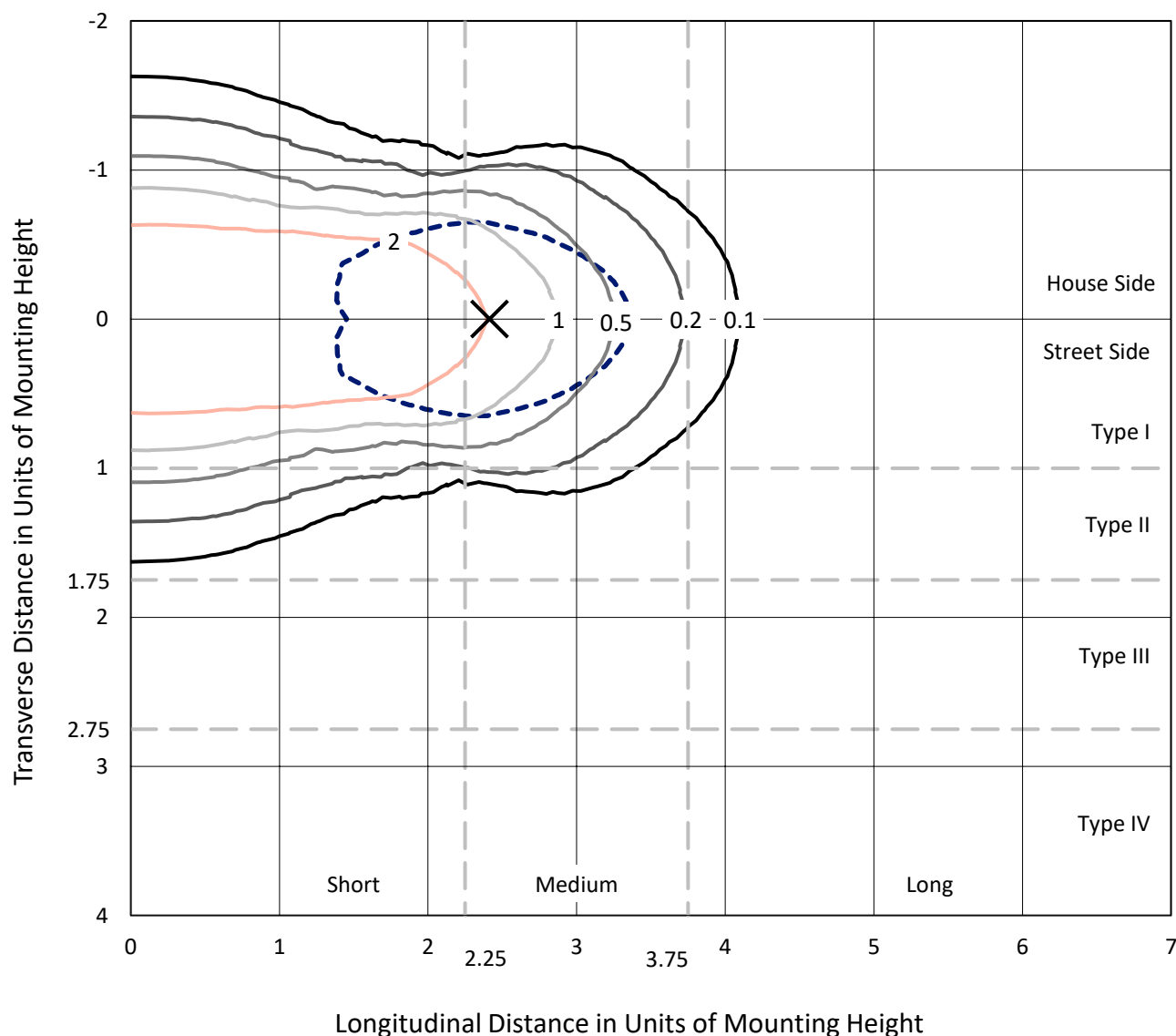
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

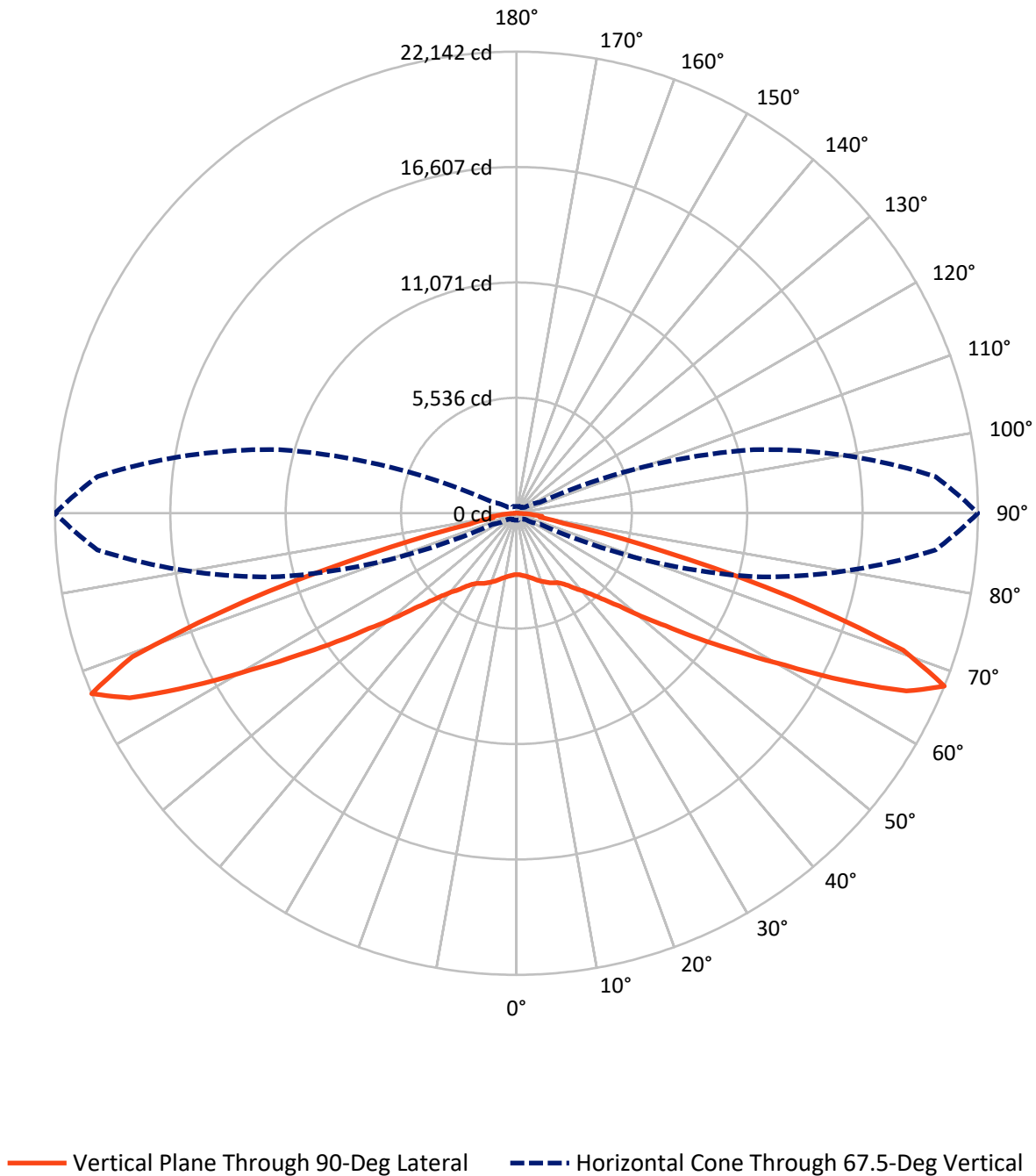


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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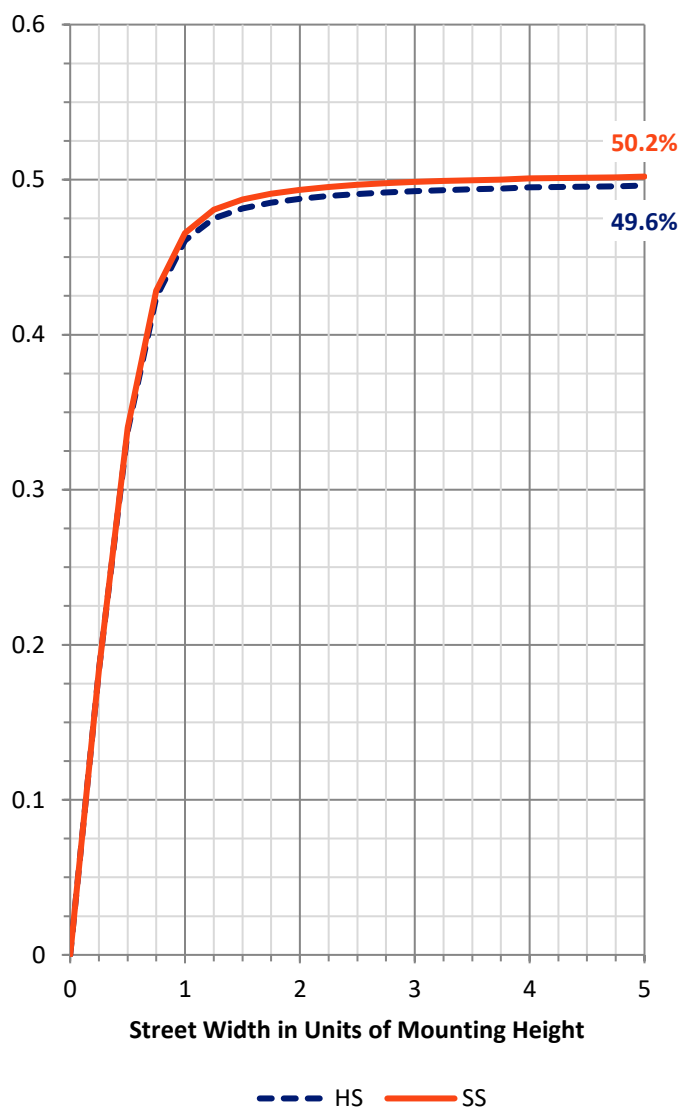
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8324.0	0.0	8324.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8324.0	0.0	8324.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16648.0	0.0	16648.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.8	1.8
10°-20°	940.1	5.6
20°-30°	1573.5	9.5
30°-40°	2131.7	12.8
40°-50°	2700.2	16.2
50°-60°	3373.2	20.3
60°-70°	3965.0	23.8
70°-80°	1516.8	9.1
80°-90°	153.7	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°	16648.0	100.0
0°-180°	16648.0	100.0

Coefficient of Utilization



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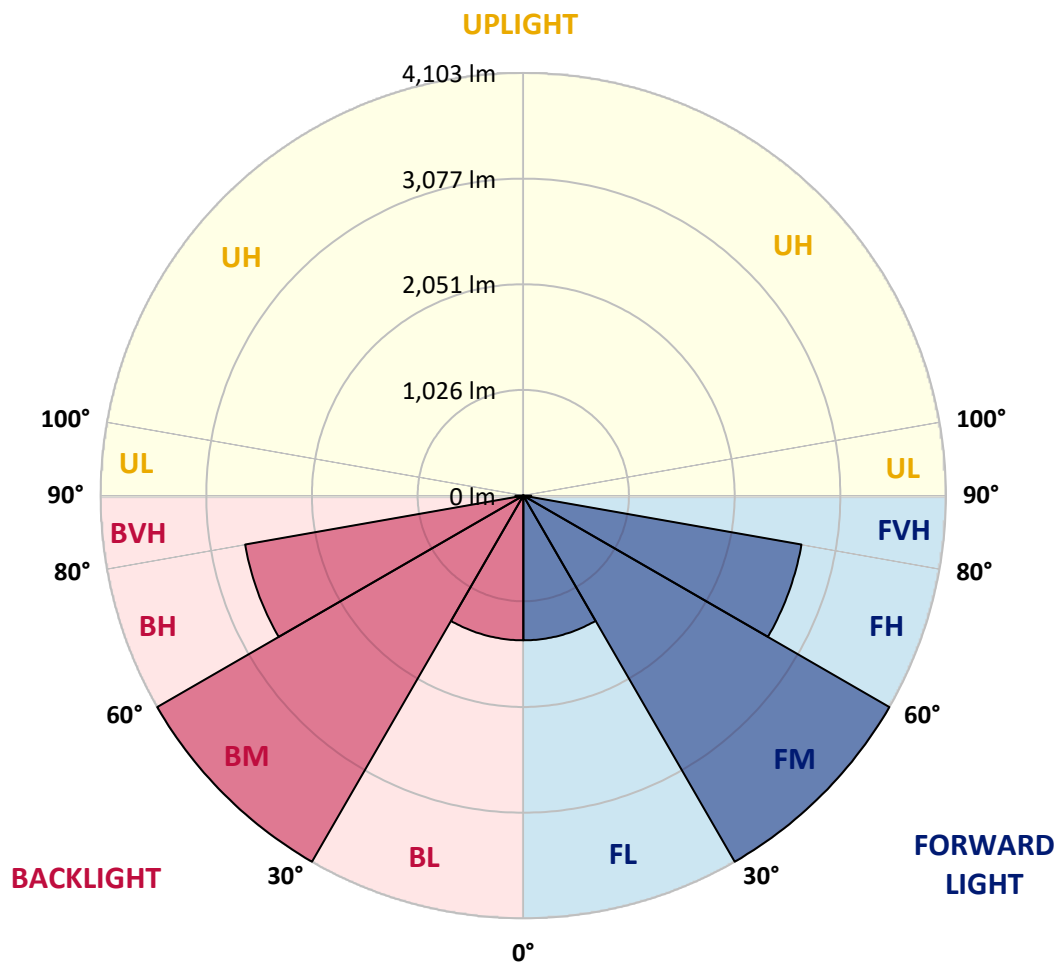
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1403.7	8.4			
FM	(30°-60°)	4102.5	24.6			
FH	(60°-80°)	2740.9	16.5			G2/5000
FVH	(80°-90°)	76.8	0.5			G1/100
BL	(0°-30°)	1403.7	8.4	B3/2500		
BM	(30°-60°)	4102.5	24.6	B3/5000		
BH	(60°-80°)	2740.9	16.5	B4/5000		G4/5000
BVH	(80°-90°)	76.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2	2947.2
2.5°	2985.0	2983.2	2984.1	2983.2	2985.9	2984.1	2973.0	2963.8	2956.4	2957.4	2954.6
5°	3048.6	3049.5	3050.5	3045.9	3052.3	3048.6	3031.1	3016.4	3001.6	2996.1	2994.2
7.5°	3101.2	3105.8	3108.5	3113.2	3124.2	3124.2	3115.0	3093.8	3061.5	3043.1	3042.2
10°	3153.7	3157.4	3165.7	3180.4	3198.9	3216.4	3212.7	3184.1	3142.7	3111.3	3103.9
12.5°	3172.2	3176.8	3204.4	3246.8	3288.3	3322.4	3322.4	3299.4	3245.9	3198.0	3184.1
15°	3107.6	3115.9	3165.7	3256.0	3364.8	3439.5	3456.1	3423.8	3366.7	3292.9	3276.3
17.5°	2979.5	2999.8	3072.6	3206.3	3386.9	3541.8	3589.8	3574.1	3500.3	3406.3	3386.9
20°	2842.1	2864.2	2941.7	3118.7	3368.5	3601.7	3740.9	3744.6	3653.4	3516.9	3488.4
22.5°	2690.9	2707.5	2807.1	3014.5	3313.2	3615.6	3870.9	3934.5	3811.0	3627.6	3587.0
25°	2521.3	2539.7	2643.9	2867.9	3209.0	3599.9	3989.8	4130.0	3976.0	3745.6	3693.9
27.5°	2359.1	2366.4	2478.0	2705.7	3071.7	3559.3	4077.4	4309.7	4158.5	3843.3	3777.8
30°	2203.3	2220.8	2319.4	2544.4	2914.0	3480.1	4153.0	4514.4	4354.9	3945.6	3861.7
32.5°	2038.3	2059.5	2166.4	2394.1	2756.4	3361.1	4199.1	4738.4	4628.7	4111.5	4022.1
35°	1879.7	1893.5	2001.4	2222.6	2602.4	3222.9	4207.4	4991.0	4981.8	4363.2	4244.3
37.5°	1717.4	1737.7	1846.5	2058.5	2439.3	3076.3	4165.9	5259.3	5407.7	4712.6	4584.5
40°	1561.6	1579.2	1686.1	1900.0	2254.0	2897.4	4067.3	5504.5	5904.6	5072.1	4890.5
42.5°	1392.0	1396.6	1513.7	1731.3	2072.4	2690.0	3925.3	5723.0	6458.6	5554.3	5328.4
45°	1199.4	1211.3	1320.1	1534.0	1864.0	2457.7	3732.6	5903.6	7161.1	6222.6	5914.7
47.5°	1006.7	1016.8	1116.4	1327.5	1636.3	2191.3	3435.8	6062.2	7882.0	7071.7	6667.9
50°	818.6	824.2	905.3	1092.4	1380.0	1911.0	3068.0	6112.9	8696.9	8273.8	7758.4
52.5°	647.2	655.4	717.2	863.8	1106.2	1580.1	2670.7	5987.5	9648.3	9699.0	8972.5
55°	524.5	527.3	573.4	681.3	864.7	1233.5	2191.3	5638.1	10671.6	11525.2	10598.7
57.5°	451.7	453.6	479.4	539.3	665.6	930.2	1699.9	4977.2	11590.7	13664.9	12473.8
60°	410.2	411.2	425.9	460.9	527.3	713.5	1217.8	4044.2	12497.8	16046.0	14804.3
62.5°	384.4	384.4	394.6	413.9	446.2	547.6	882.2	2917.7	13119.1	18462.3	17676.8
65°	359.5	359.5	366.9	380.7	398.2	448.0	651.8	1902.7	13103.4	20222.1	20566.0
67.5°	331.0	331.0	336.5	350.3	360.5	385.3	503.3	1246.4	11770.4	20183.4	22142.4
70°	296.8	296.8	304.2	316.2	324.5	340.2	397.3	852.7	8647.1	17233.4	19692.0
72.5°	262.7	263.7	268.3	280.2	286.7	295.9	330.0	597.4	5304.4	11734.5	13769.0
75°	224.9	226.8	231.4	243.4	248.9	252.6	278.4	425.9	2683.6	6326.8	7203.5
77.5°	181.6	185.3	188.1	201.0	204.7	210.2	229.5	307.9	1178.1	2273.3	2293.6
80°	132.7	137.4	145.7	157.6	160.4	164.1	175.2	218.5	533.8	1038.0	1127.4
82.5°	97.7	104.2	94.0	109.7	109.7	105.1	123.5	146.6	245.2	1027.9	1229.8
85°	53.5	54.4	48.9	56.2	59.9	59.0	65.5	71.9	118.9	685.9	707.1
87.5°	12.9	13.8	14.7	17.5	21.2	21.2	23.0	20.3	38.7	222.2	127.2
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)