

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: P453396

Luminaire Tested: **GALN-SA4B-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453396
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-SA4B-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17856 lumens
Efficiency: N/A
Efficacy: 108.9 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): 164
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



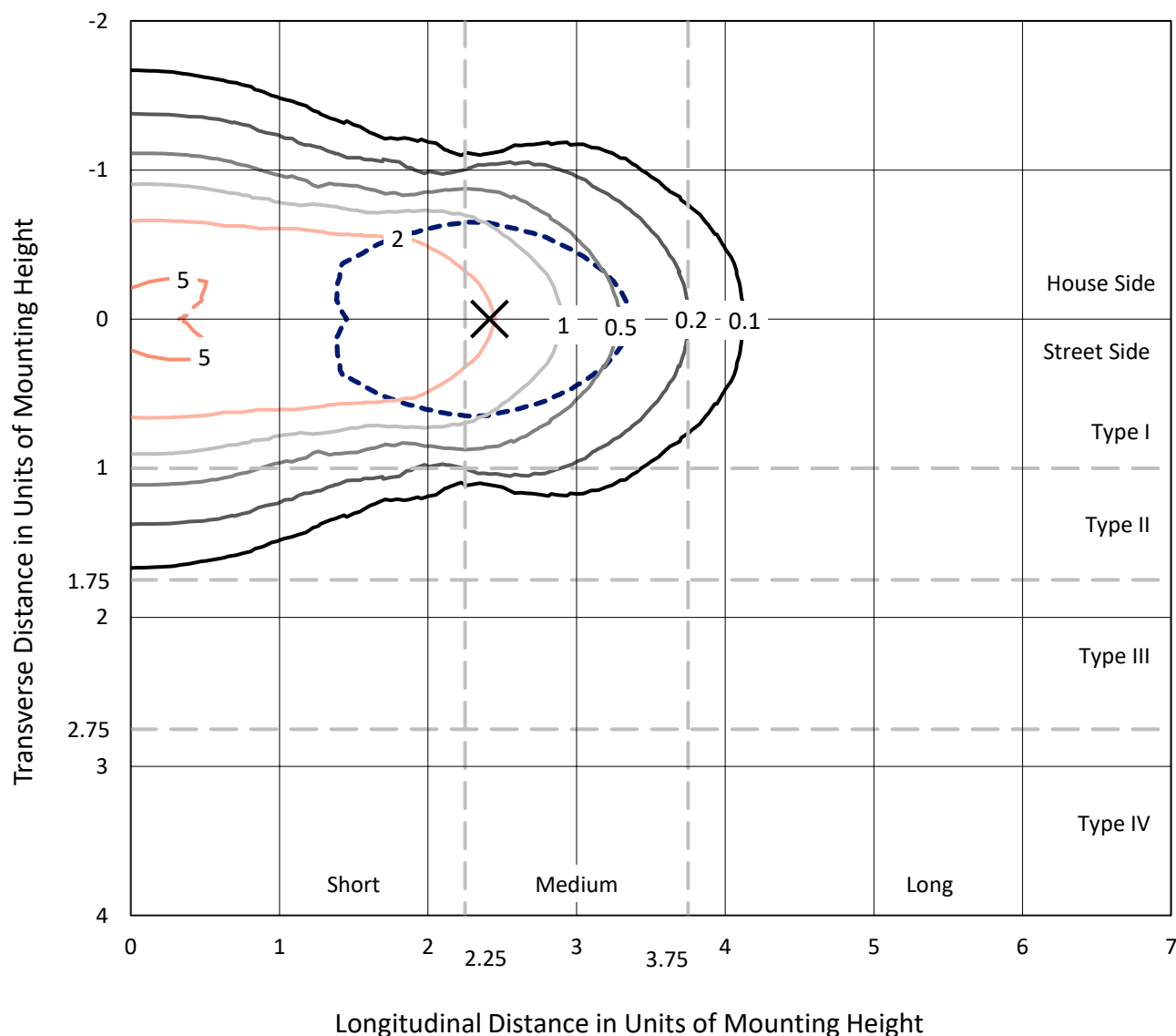
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



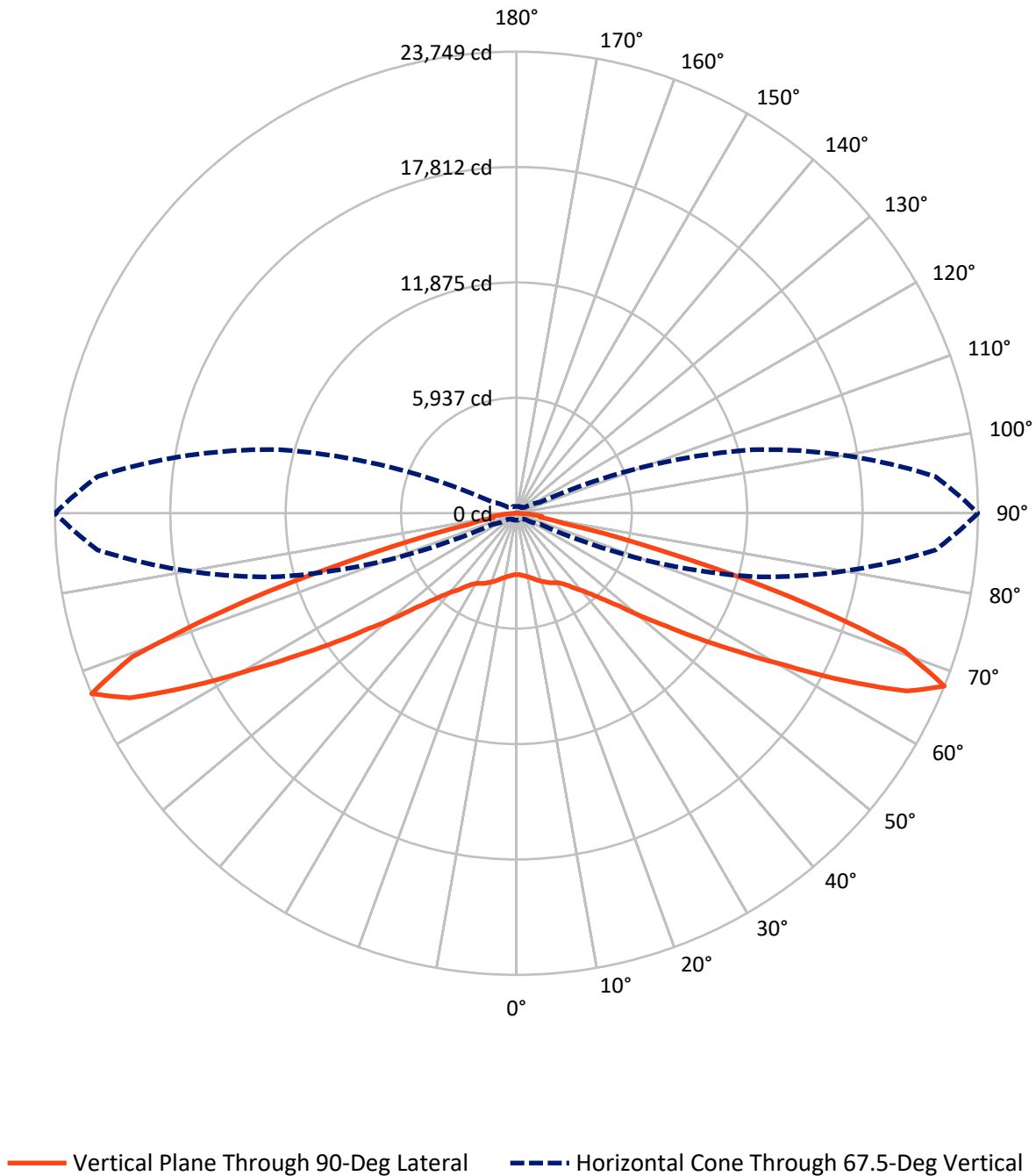
Based on 25 foot mounting height. Maximum calculated value = 5.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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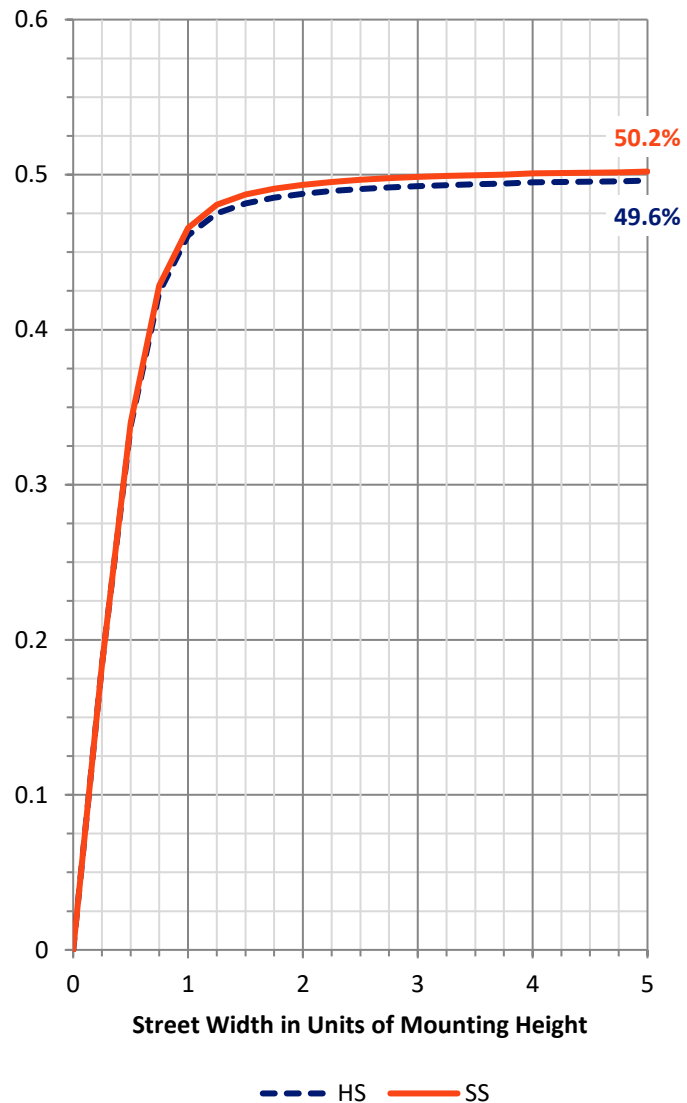
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8928.0	0.0	8928.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8928.0	0.0	8928.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17856.0	0.0	17856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.2	1.8
10°-20°	1008.3	5.6
20°-30°	1687.7	9.5
30°-40°	2286.4	12.8
40°-50°	2896.1	16.2
50°-60°	3617.9	20.3
60°-70°	4252.7	23.8
70°-80°	1626.9	9.1
80°-90°	164.8	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°	17856.0	100.0
0°-180°	17856.0	100.0

Coefficient of Utilization



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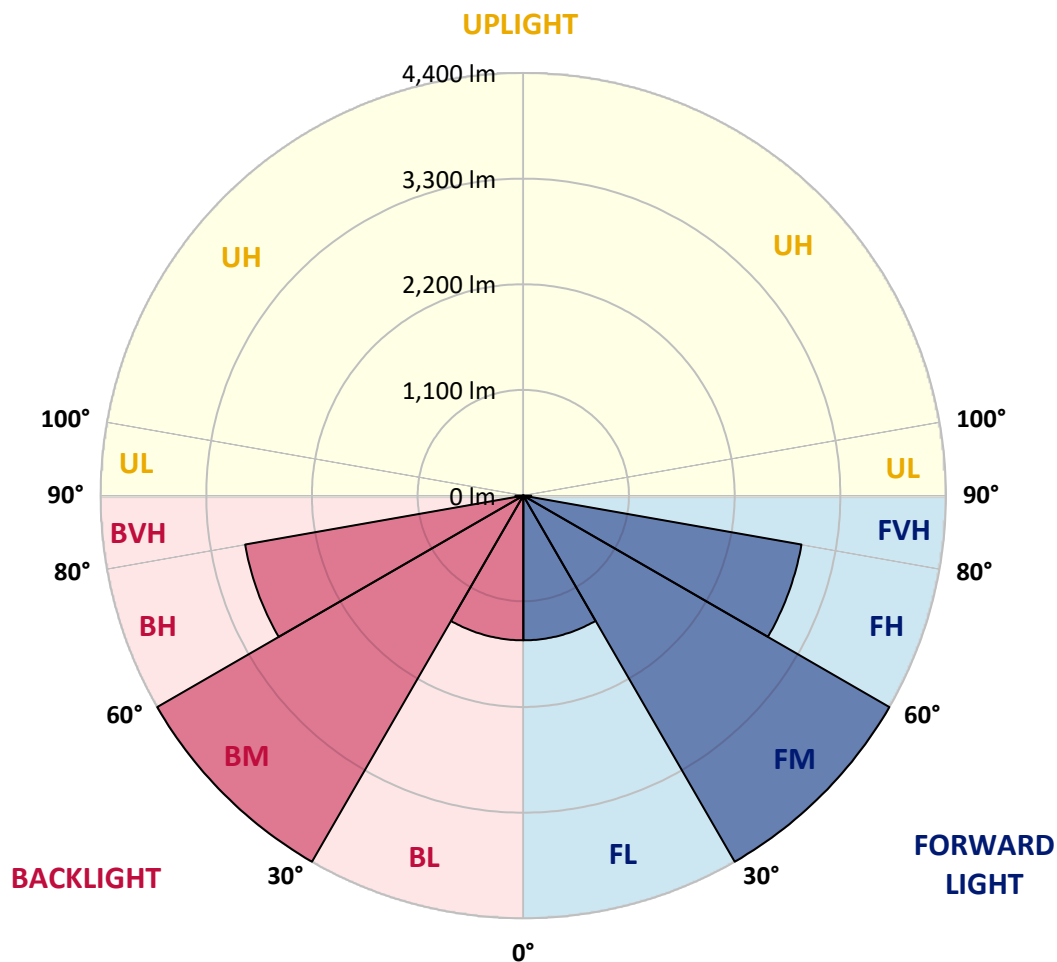
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1505.6	8.4			
FM	(30°-60°)	4400.2	24.6			
FH	(60°-80°)	2939.8	16.5			G2/5000
FVH	(80°-90°)	82.4	0.5			G1/100
BL	(0°-30°)	1505.6	8.4	B3/2500		
BM	(30°-60°)	4400.2	24.6	B3/5000		
BH	(60°-80°)	2939.8	16.5	B4/5000		G4/5000
BVH	(80°-90°)	82.4	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°	3161.1	3161.1	3161.1	3161.1	3161.1	3161.1	3161.1	3161.1	3161.1	3161.1	3161.1
2.5°	3201.6	3199.6	3200.6	3199.6	3202.6	3200.6	3188.8	3178.9	3171.0	3171.9	3169.0
5°	3269.8	3270.8	3271.8	3266.9	3273.8	3269.8	3251.0	3235.2	3219.4	3213.5	3211.5
7.5°	3326.2	3331.1	3334.1	3339.0	3350.9	3350.9	3341.0	3318.3	3283.7	3263.9	3262.9
10°	3382.6	3386.5	3395.4	3411.2	3431.0	3449.8	3445.8	3415.2	3370.7	3337.1	3329.2
12.5°	3402.3	3407.3	3436.9	3482.4	3526.9	3563.5	3563.5	3538.8	3481.4	3430.0	3415.2
15°	3333.1	3342.0	3395.4	3492.3	3609.0	3689.1	3706.9	3672.3	3611.0	3531.9	3514.1
17.5°	3195.7	3217.4	3295.5	3438.9	3632.7	3798.8	3850.2	3833.4	3754.3	3653.5	3632.7
20°	3048.3	3072.1	3155.1	3345.0	3612.9	3863.1	4012.4	4016.3	3918.5	3772.1	3741.5
22.5°	2886.2	2904.0	3010.8	3233.2	3553.6	3877.9	4151.8	4220.0	4087.5	3890.8	3847.3
25°	2704.3	2724.0	2835.8	3076.0	3441.9	3861.1	4279.4	4429.6	4264.5	4017.3	3962.0
27.5°	2530.2	2538.1	2657.8	2902.0	3294.6	3817.6	4373.3	4622.5	4460.3	4122.1	4051.9
30°	2363.1	2381.9	2487.7	2729.0	3125.5	3732.6	4454.4	4842.0	4670.9	4231.9	4141.9
32.5°	2186.1	2208.9	2323.6	2567.8	2956.4	3605.0	4503.8	5082.2	4964.6	4409.9	4314.0
35°	2016.1	2030.9	2146.6	2383.9	2791.3	3456.7	4512.7	5353.2	5343.3	4679.8	4552.3
37.5°	1842.1	1863.8	1980.5	2207.9	2616.3	3299.5	4468.2	5640.9	5800.1	5054.5	4917.1
40°	1675.0	1693.7	1808.4	2037.8	2417.5	3107.7	4362.4	5903.9	6333.0	5440.2	5245.4
42.5°	1493.0	1498.0	1623.5	1856.9	2222.7	2885.2	4210.1	6138.2	6927.3	5957.3	5715.0
45°	1286.4	1299.2	1415.9	1645.3	1999.3	2636.0	4003.5	6332.0	7680.7	6674.1	6343.9
47.5°	1079.7	1090.6	1197.4	1423.8	1755.1	2350.3	3685.1	6502.1	8453.9	7584.8	7151.7
50°	878.0	884.0	971.0	1171.7	1480.2	2049.7	3290.6	6556.5	9328.0	8874.1	8321.4
52.5°	694.1	703.0	769.3	926.5	1186.5	1694.7	2864.4	6422.0	10348.4	10402.8	9623.6
55°	562.6	565.6	615.0	730.7	927.5	1323.0	2350.3	6047.3	11445.9	12361.5	11367.8
57.5°	484.5	486.5	514.2	578.4	713.9	997.7	1823.3	5338.3	12431.7	14656.4	13378.9
60°	440.0	441.0	456.8	494.4	565.6	765.3	1306.2	4337.7	13404.6	17210.4	15878.5
62.5°	412.3	412.3	423.2	444.0	478.6	587.3	946.2	3129.4	14071.1	19801.9	18959.5
65°	385.6	385.6	393.5	408.4	427.1	480.5	699.1	2040.8	14054.2	21689.5	22058.3
67.5°	355.0	355.0	360.9	375.7	386.6	413.3	539.9	1336.8	12624.5	21647.9	23749.0
70°	318.4	318.4	326.3	339.1	348.0	364.9	426.2	914.6	9274.6	18483.9	21120.9
72.5°	281.8	282.8	287.7	300.6	307.5	317.4	354.0	640.7	5689.3	12585.9	14768.1
75°	241.3	243.2	248.2	261.0	267.0	270.9	298.6	456.8	2878.3	6785.9	7726.2
77.5°	194.8	198.7	201.7	215.5	219.5	225.4	246.2	330.2	1263.6	2438.3	2460.0
80°	142.4	147.3	156.2	169.1	172.0	176.0	187.9	234.3	572.5	1113.3	1209.3
82.5°	104.8	111.7	100.9	117.7	117.7	112.7	132.5	157.2	263.0	1102.5	1319.0
85°	57.3	58.3	52.4	60.3	64.3	63.3	70.2	77.1	127.6	735.6	758.4
87.5°	13.8	14.8	15.8	18.8	22.7	22.7	24.7	21.8	41.5	238.3	136.4
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)