

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: P454092

Luminaire Tested: **GALN-SA5A-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454092
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-SA5A-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 18167 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 154
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

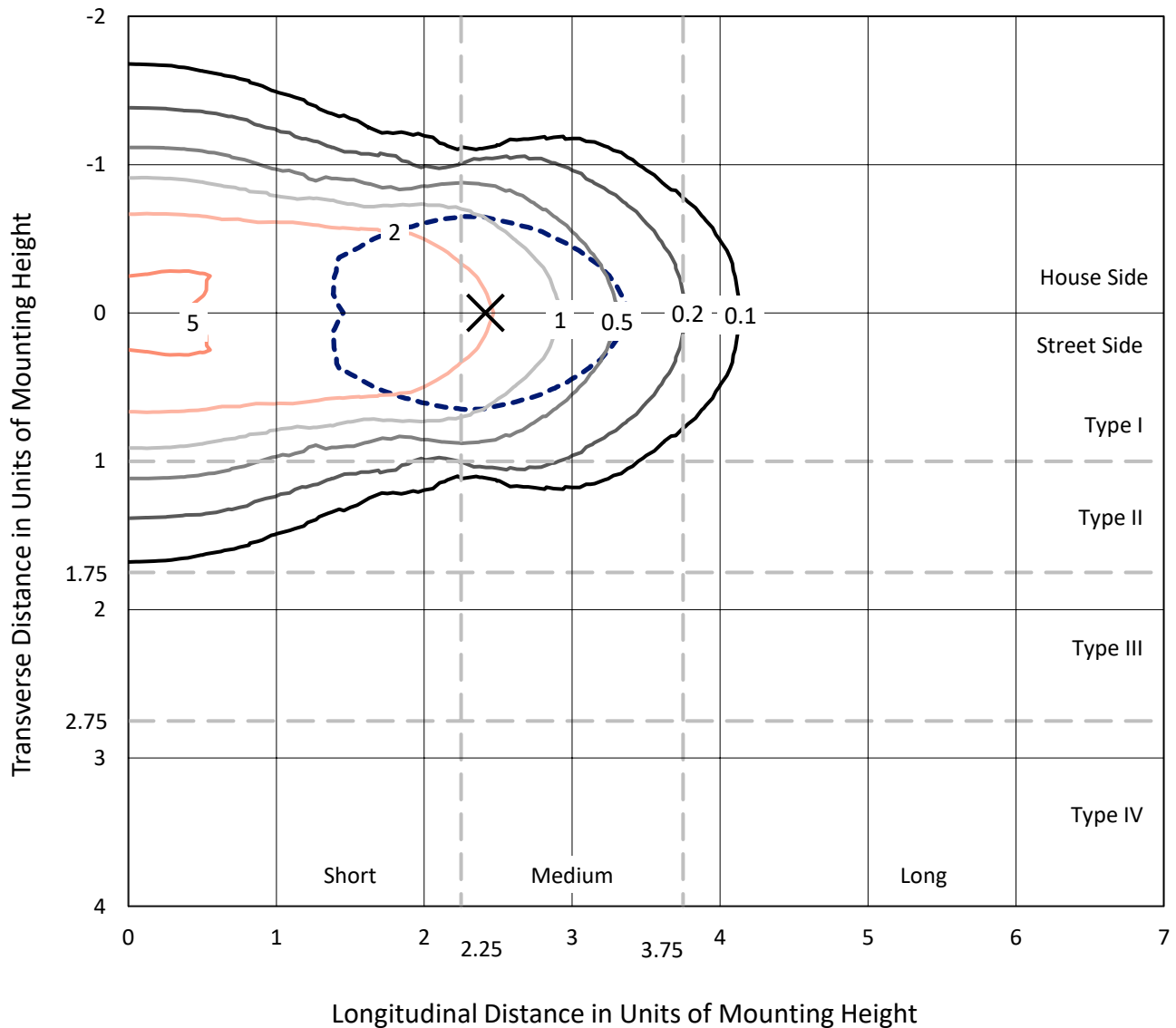


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

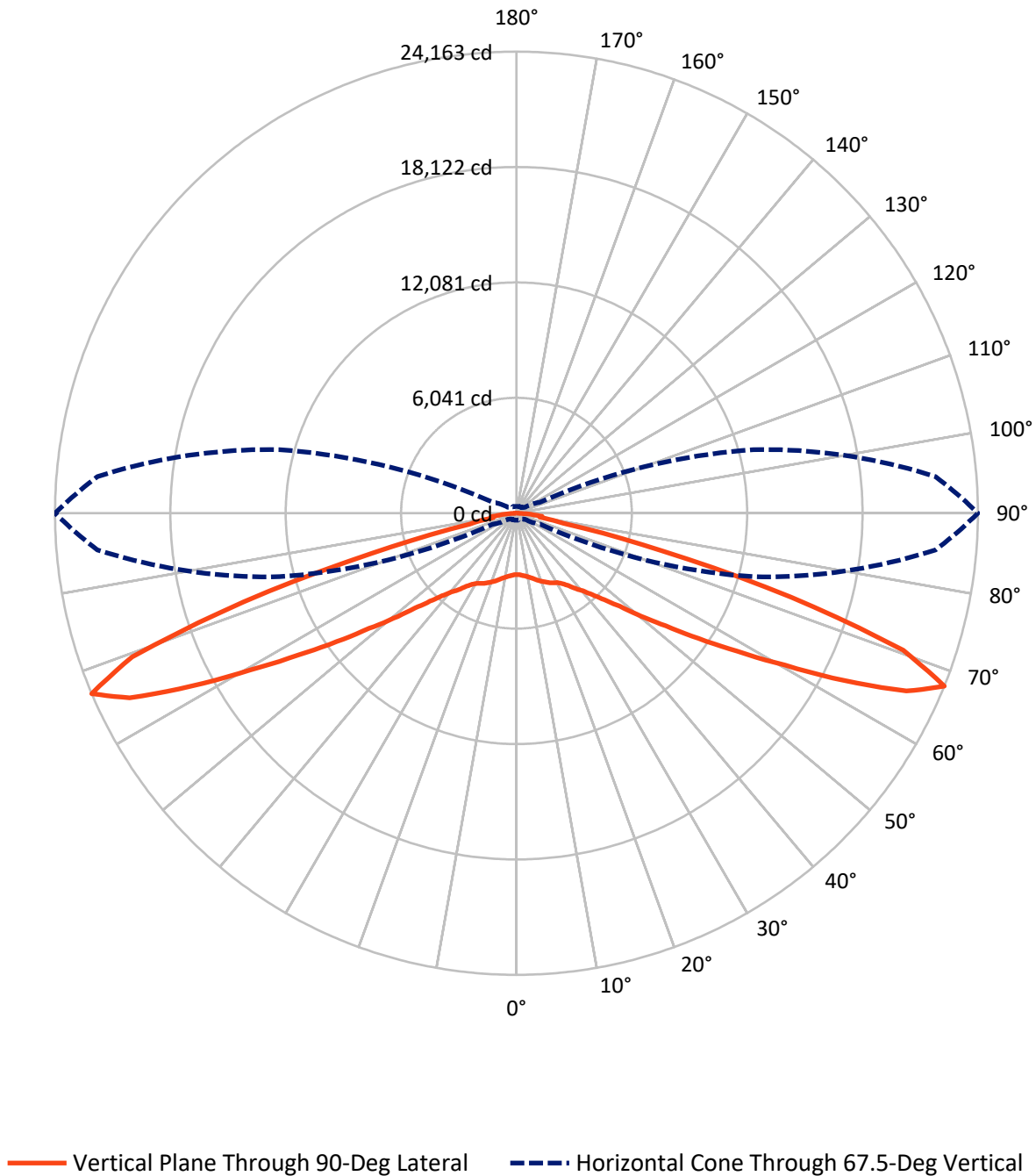


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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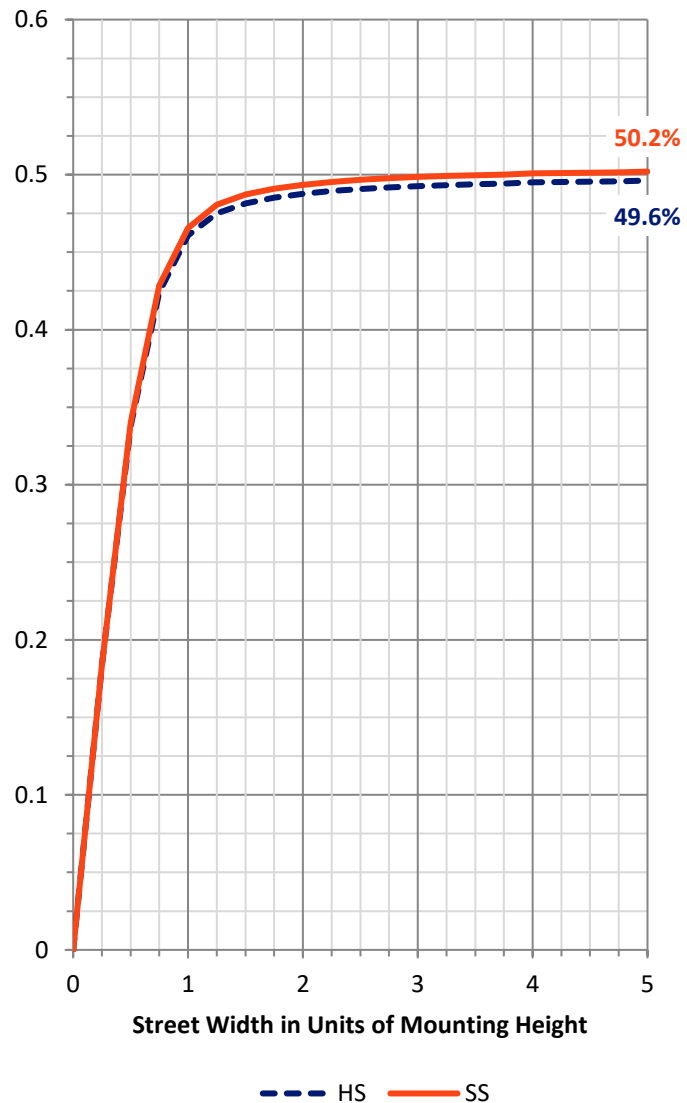
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9083.5	0.0	9083.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9083.5	0.0	9083.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18167.0	0.0	18167.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.6	1.8
10°-20°	1025.9	5.6
20°-30°	1717.1	9.5
30°-40°	2326.2	12.8
40°-50°	2946.5	16.2
50°-60°	3680.9	20.3
60°-70°	4326.8	23.8
70°-80°	1655.2	9.1
80°-90°	167.7	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°	18167.0	100.0
0°-180°	18167.0	100.0

Coefficient of Utilization



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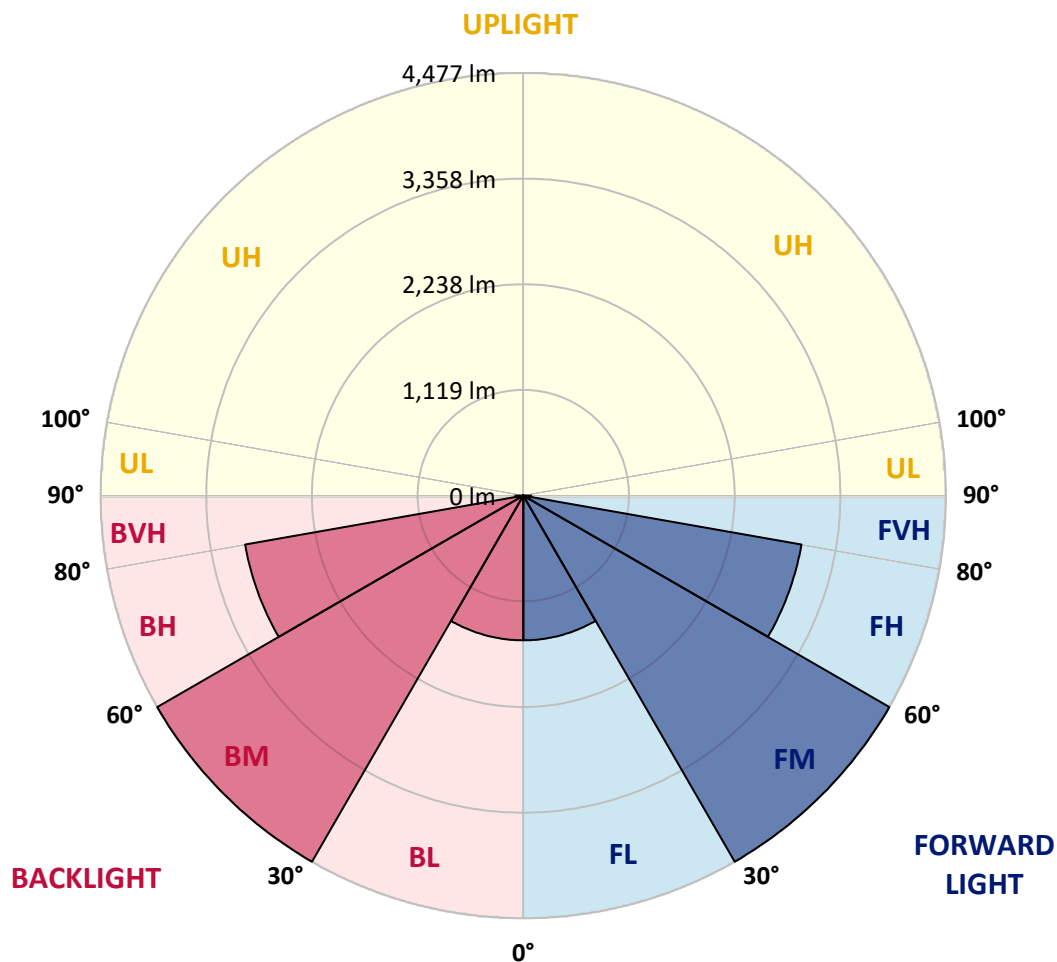
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1531.8	8.4			
FM	(30°-60°)	4476.8	24.6			
FH	(60°-80°)	2991.0	16.5			G2/5000
FVH	(80°-90°)	83.8	0.5			G1/100
BL	(0°-30°)	1531.8	8.4	B3/2500		
BM	(30°-60°)	4476.8	24.6	B3/5000		
BH	(60°-80°)	2991.0	16.5	B4/5000		G4/5000
BVH	(80°-90°)	83.8	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°	3216.1	3216.1	3216.1	3216.1	3216.1	3216.1	3216.1	3216.1	3216.1	3216.1	3216.1
2.5°	3257.4	3255.4	3256.4	3255.4	3258.4	3256.4	3244.3	3234.2	3226.2	3227.2	3224.2
5°	3326.8	3327.8	3328.8	3323.8	3330.8	3326.8	3307.7	3291.6	3275.5	3269.4	3267.4
7.5°	3384.1	3389.2	3392.2	3397.2	3409.3	3409.3	3399.2	3376.1	3340.9	3320.7	3319.7
10°	3441.5	3445.5	3454.5	3470.6	3490.8	3509.9	3505.8	3474.7	3429.4	3395.2	3387.1
12.5°	3461.6	3466.6	3496.8	3543.1	3588.3	3625.6	3625.6	3600.4	3542.1	3489.8	3474.7
15°	3391.2	3400.2	3454.5	3553.1	3671.8	3753.3	3771.4	3736.2	3673.8	3593.4	3575.3
17.5°	3251.3	3273.5	3352.9	3498.8	3696.0	3865.0	3917.3	3900.2	3819.7	3717.1	3696.0
20°	3101.4	3125.6	3210.1	3403.2	3675.9	3930.4	4082.3	4086.3	3986.7	3837.8	3806.6
22.5°	2936.5	2954.6	3063.2	3289.6	3615.5	3945.5	4224.1	4293.5	4158.7	3958.5	3914.3
25°	2751.4	2771.5	2885.2	3129.6	3501.8	3928.4	4353.9	4506.8	4338.8	4087.3	4031.0
27.5°	2574.3	2582.4	2704.1	2952.6	3351.9	3884.1	4449.5	4703.0	4538.0	4193.9	4122.5
30°	2404.3	2423.4	2531.1	2776.5	3179.9	3797.6	4531.9	4926.3	4752.3	4305.6	4214.1
32.5°	2224.2	2247.4	2364.1	2612.5	3007.9	3667.8	4582.2	5170.7	5051.0	4486.7	4389.1
35°	2051.2	2066.3	2184.0	2425.4	2839.9	3516.9	4591.3	5446.4	5436.3	4761.3	4631.5
37.5°	1874.1	1896.3	2015.0	2246.4	2661.8	3357.0	4546.0	5739.1	5901.1	5142.6	5002.7
40°	1704.1	1723.2	1839.9	2073.3	2459.6	3161.8	4438.4	6006.7	6443.3	5534.9	5336.7
42.5°	1519.0	1524.1	1651.8	1889.2	2261.4	2935.5	4283.5	6245.1	7047.9	6061.0	5814.6
45°	1308.8	1321.9	1440.6	1674.0	2034.1	2681.9	4073.2	6442.3	7814.5	6790.4	6454.4
47.5°	1098.5	1109.6	1218.2	1448.6	1785.6	2391.2	3749.3	6615.3	8601.1	7716.9	7276.3
50°	893.3	899.3	987.9	1192.1	1506.0	2085.4	3347.9	6670.7	9490.4	9028.7	8466.3
52.5°	706.2	715.3	782.7	942.6	1207.2	1724.3	2914.3	6533.9	10528.6	10583.9	9791.2
55°	572.4	575.4	625.7	743.4	943.6	1346.0	2391.2	6152.6	11645.2	12576.8	11565.8
57.5°	492.9	494.9	523.1	588.5	726.3	1015.0	1855.0	5431.3	12648.2	14911.7	13611.9
60°	447.7	448.7	464.8	503.0	575.4	778.6	1328.9	4413.2	13638.1	17510.1	16155.1
62.5°	419.5	419.5	430.6	451.7	486.9	597.6	962.7	3183.9	14316.1	20146.8	19289.7
65°	392.3	392.3	400.4	415.5	434.6	488.9	711.2	2076.3	14299.0	22067.2	22442.5
67.5°	361.1	361.1	367.2	382.3	393.3	420.5	549.3	1360.1	12844.4	22025.0	24162.7
70°	323.9	323.9	332.0	345.1	354.1	371.2	433.6	930.5	9436.1	18805.8	21488.8
72.5°	286.7	287.7	292.7	305.8	312.9	322.9	360.1	651.9	5788.4	12805.1	15025.3
75°	245.5	247.5	252.5	265.6	271.6	275.6	303.8	464.8	2928.4	6904.1	7860.7
77.5°	198.2	202.2	205.2	219.3	223.3	229.4	250.5	336.0	1285.6	2480.8	2502.9
80°	144.9	149.9	158.9	172.0	175.0	179.1	191.1	238.4	582.5	1132.7	1230.3
82.5°	106.6	113.7	102.6	119.7	119.7	114.7	134.8	160.0	267.6	1121.7	1342.0
85°	58.3	59.4	53.3	61.4	65.4	64.4	71.4	78.5	129.8	748.5	771.6
87.5°	14.1	15.1	16.1	19.1	23.1	23.1	25.1	22.1	42.3	242.4	138.8
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)