

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: P453686

Luminaire Tested: **GALN-SA4D-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453686
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-SA4D-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25548 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

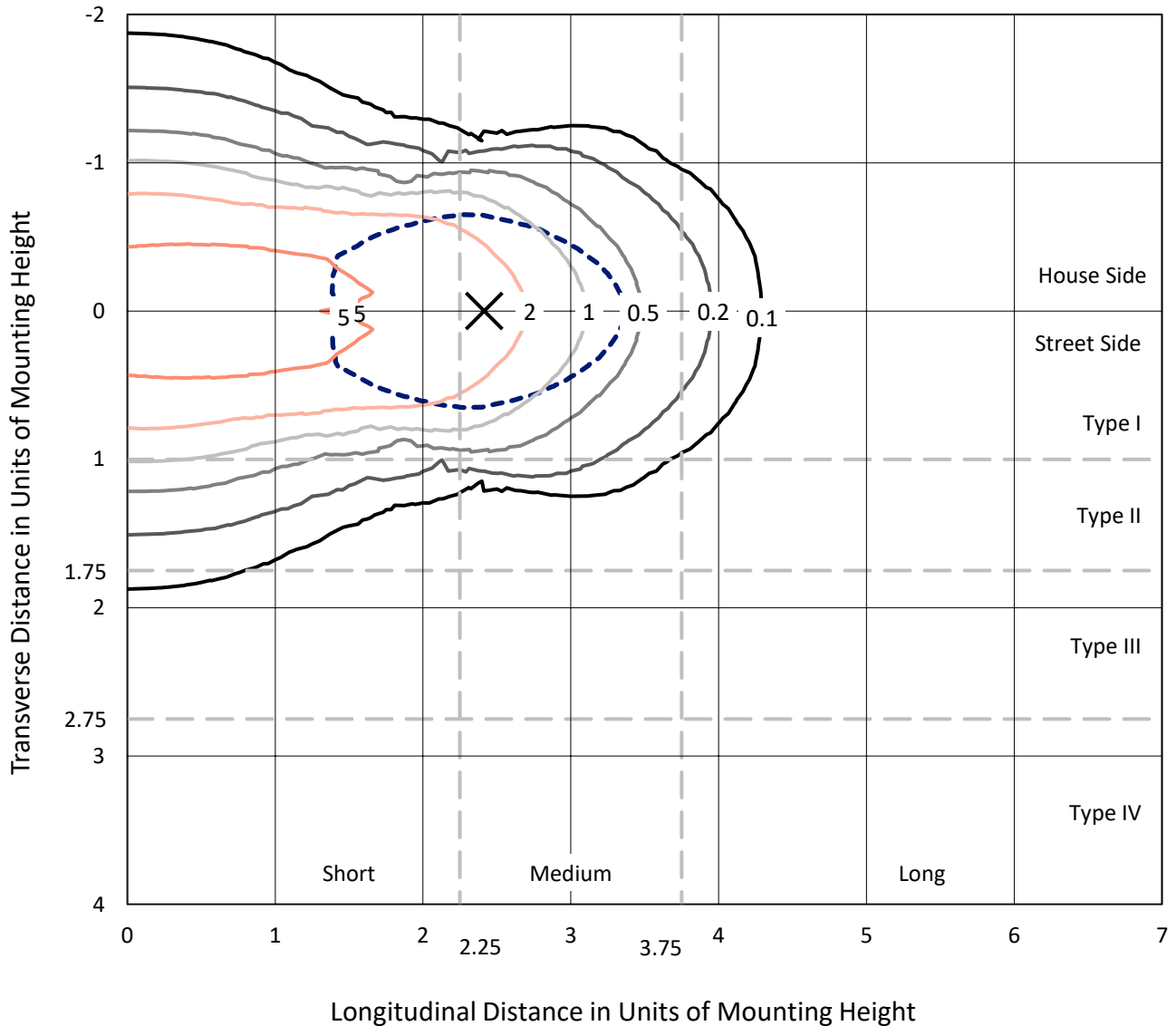
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

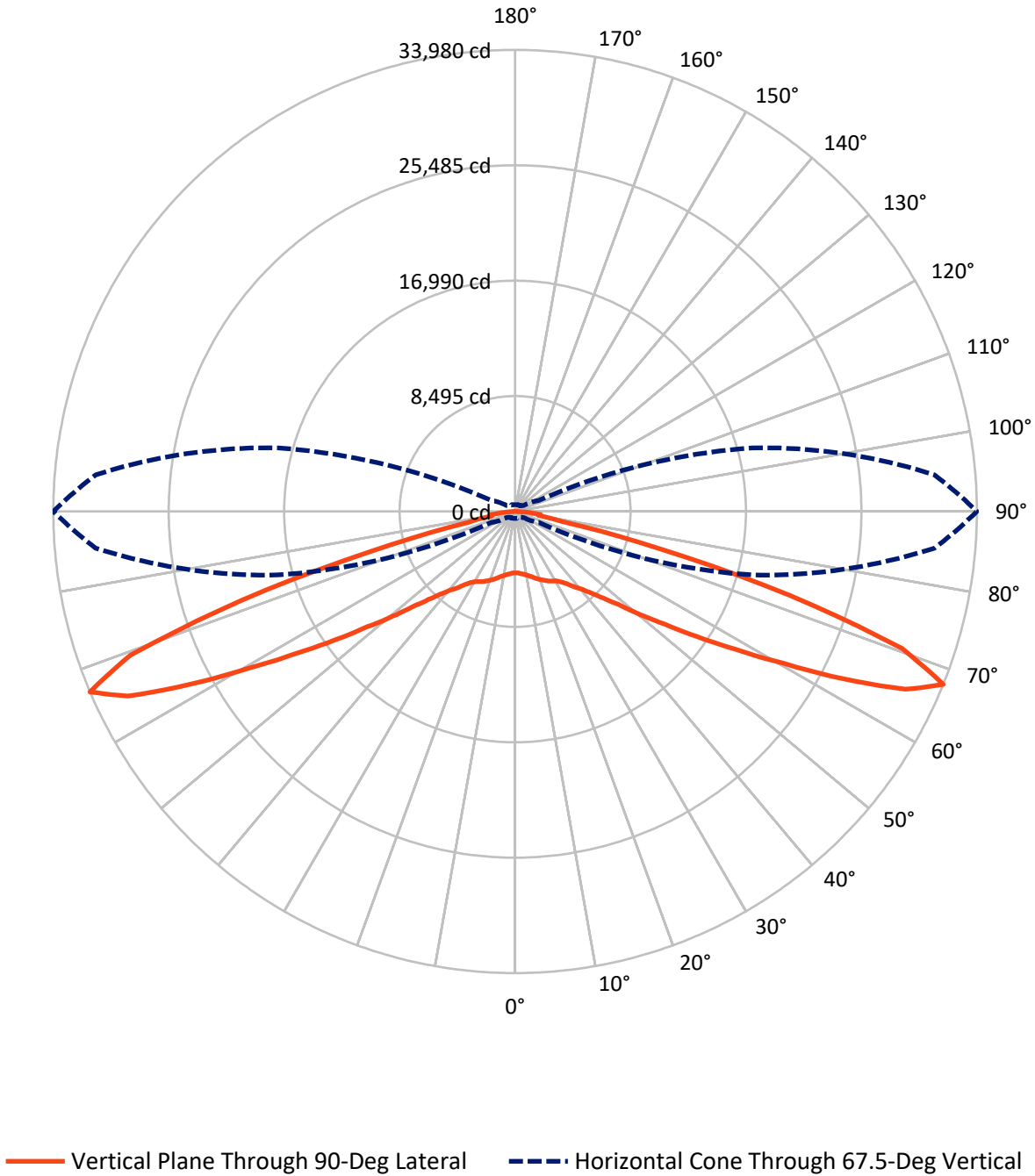
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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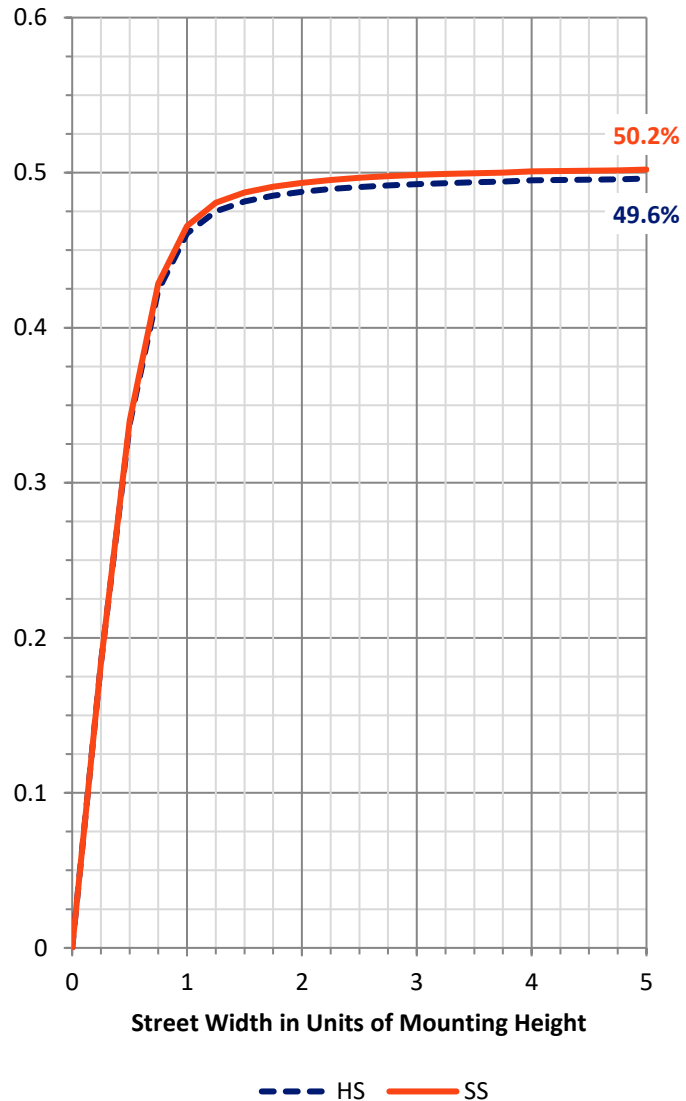
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12774.0	0.0	12774.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12774.0	0.0	12774.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25548.0	0.0	25548.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.9	1.8
10°-20°	1442.7	5.6
20°-30°	2414.7	9.5
30°-40°	3271.3	12.8
40°-50°	4143.7	16.2
50°-60°	5176.5	20.3
60°-70°	6084.7	23.8
70°-80°	2327.7	9.1
80°-90°	235.8	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°	25548.0	100.0
0°-180°	25548.0	100.0



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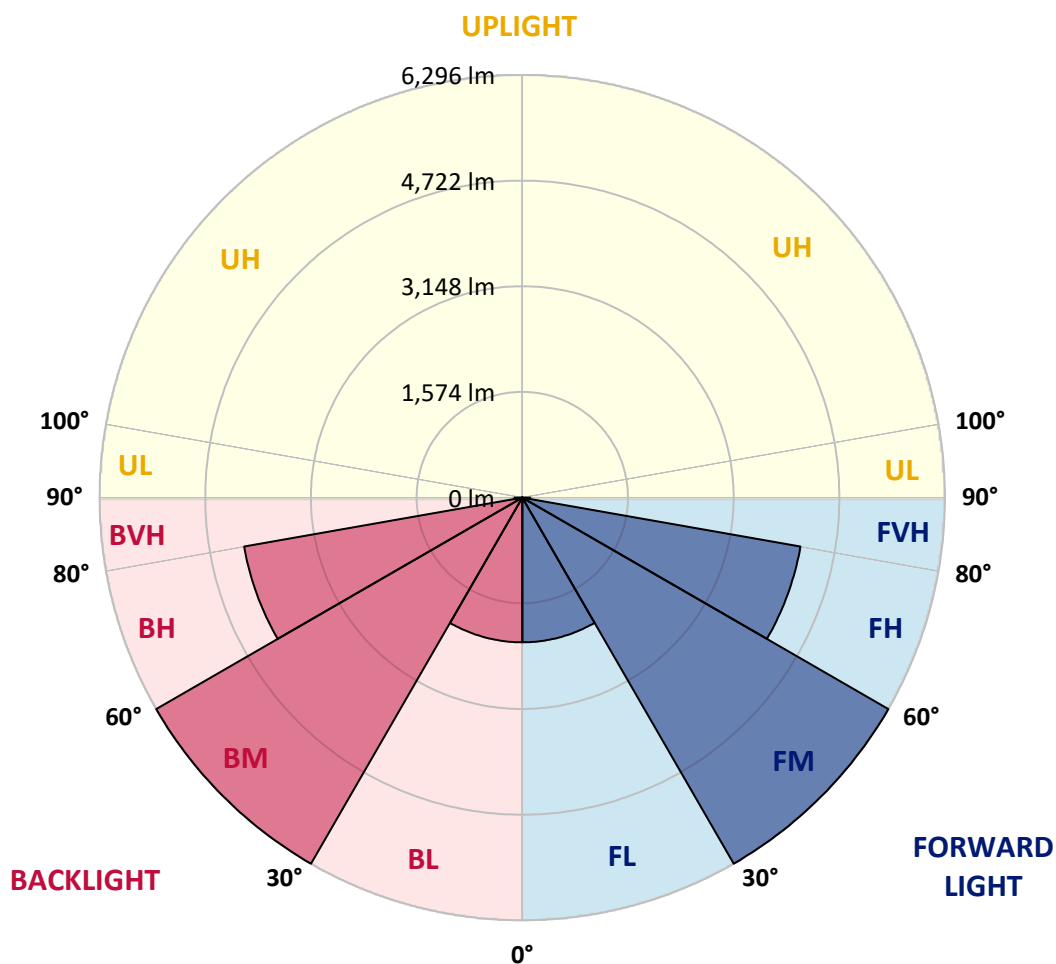
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2154.2	8.4			
FM (30°-60°)	6295.7	24.6			
FH (60°-80°)	4206.2	16.5			G2/5000
FVH (80°-90°)	117.9	0.5			G2/225
BL (0°-30°)	2154.2	8.4	B3/2500		
BM (30°-60°)	6295.7	24.6	B4/8500		
BH (60°-80°)	4206.2	16.5	B4/5000		G4/5000
BVH (80°-90°)	117.9	0.5			G2/225
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°	4522.8	4522.8	4522.8	4522.8	4522.8	4522.8	4522.8	4522.8	4522.8	4522.8	4522.8
2.5°	4580.8	4578.0	4579.4	4578.0	4582.2	4579.4	4562.4	4548.3	4536.9	4538.4	4534.1
5°	4678.4	4679.8	4681.2	4674.2	4684.1	4678.4	4651.5	4628.9	4606.3	4597.8	4594.9
7.5°	4759.0	4766.1	4770.4	4777.4	4794.4	4794.4	4780.3	4747.7	4698.2	4669.9	4668.5
10°	4839.7	4845.3	4858.1	4880.7	4909.0	4935.9	4930.2	4886.4	4822.7	4774.6	4763.3
12.5°	4868.0	4875.1	4917.5	4982.6	5046.2	5098.6	5098.6	5063.2	4981.2	4907.6	4886.4
15°	4768.9	4781.7	4858.1	4996.7	5163.6	5278.2	5303.7	5254.2	5166.5	5053.3	5027.8
17.5°	4572.3	4603.4	4715.2	4920.3	5197.6	5435.3	5508.8	5484.8	5371.6	5227.3	5197.6
20°	4361.5	4395.5	4514.3	4785.9	5169.3	5527.2	5740.8	5746.5	5606.5	5397.1	5353.2
22.5°	4129.5	4155.0	4307.8	4626.1	5084.4	5548.4	5940.3	6037.9	5848.4	5566.8	5504.6
25°	3869.2	3897.5	4057.4	4401.1	4924.6	5524.4	6122.8	6337.8	6101.6	5747.9	5668.7
27.5°	3620.2	3631.5	3802.7	4152.1	4713.8	5462.2	6257.2	6613.7	6381.7	5897.9	5797.4
30°	3381.1	3408.0	3559.4	3904.6	4471.9	5340.5	6373.2	6927.8	6683.0	6054.9	5926.2
32.5°	3127.9	3160.4	3324.5	3674.0	4229.9	5158.0	6444.0	7271.6	7103.2	6309.6	6172.3
35°	2884.6	2905.8	3071.3	3410.8	3993.7	4945.8	6456.7	7659.2	7645.0	6695.8	6513.3
37.5°	2635.6	2666.7	2833.6	3159.0	3743.3	4720.8	6393.0	8070.9	8298.6	7231.9	7035.3
40°	2396.5	2423.4	2587.5	2915.7	3458.9	4446.4	6241.7	8447.2	9061.1	7783.7	7505.0
42.5°	2136.2	2143.3	2322.9	2656.8	3180.2	4128.1	6023.8	8782.4	9911.4	8523.6	8177.0
45°	1840.5	1858.9	2025.8	2354.1	2860.5	3771.6	5728.1	9059.7	10989.4	9549.2	9076.7
47.5°	1544.9	1560.4	1713.2	2037.2	2511.1	3362.7	5272.6	9303.1	12095.7	10852.2	10232.5
50°	1256.3	1264.7	1389.2	1676.4	2117.8	2932.7	4708.1	9380.9	13346.3	12696.9	11906.1
52.5°	993.1	1005.9	1100.6	1325.6	1697.6	2424.8	4098.4	9188.5	14806.2	14884.0	13769.3
55°	805.0	809.2	879.9	1045.5	1327.0	1892.9	3362.7	8652.3	16376.6	17686.6	16264.8
57.5°	693.2	696.0	735.6	827.6	1021.4	1427.4	2608.7	7638.0	17787.0	20970.1	19142.3
60°	629.5	631.0	653.6	707.3	809.2	1095.0	1868.8	6206.3	19179.1	24624.2	22718.6
62.5°	589.9	589.9	605.5	635.2	684.7	840.3	1353.9	4477.5	20132.6	28332.2	27126.8
65°	551.7	551.7	563.1	584.3	611.1	687.5	1000.2	2919.9	20108.5	31032.8	31560.5
67.5°	507.9	507.9	516.4	537.6	553.1	591.3	772.4	1912.7	18062.9	30973.4	33979.6
70°	455.5	455.5	466.9	485.2	498.0	522.0	609.7	1308.6	13269.9	26446.4	30219.4
72.5°	403.2	404.6	411.7	430.1	440.0	454.1	506.5	916.7	8140.2	18007.7	21129.9
75°	345.2	348.0	355.1	373.5	382.0	387.6	427.2	653.6	4118.2	9709.1	11054.5
77.5°	278.7	284.4	288.6	308.4	314.1	322.6	352.3	472.5	1808.0	3488.6	3519.8
80°	203.7	210.8	223.5	241.9	246.2	251.8	268.8	335.3	819.1	1593.0	1730.2
82.5°	150.0	159.9	144.3	168.3	168.3	161.3	189.6	224.9	376.3	1577.4	1887.2
85°	82.1	83.5	75.0	86.3	92.0	90.5	100.4	110.3	182.5	1052.5	1085.1
87.5°	19.8	21.2	22.6	26.9	32.5	32.5	35.4	31.1	59.4	340.9	195.2
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)