

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: P453860

Luminaire Tested: **GALN-SA4D-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453860
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-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24275 lumens
Efficiency: N/A
Efficacy: 99.1 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 (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



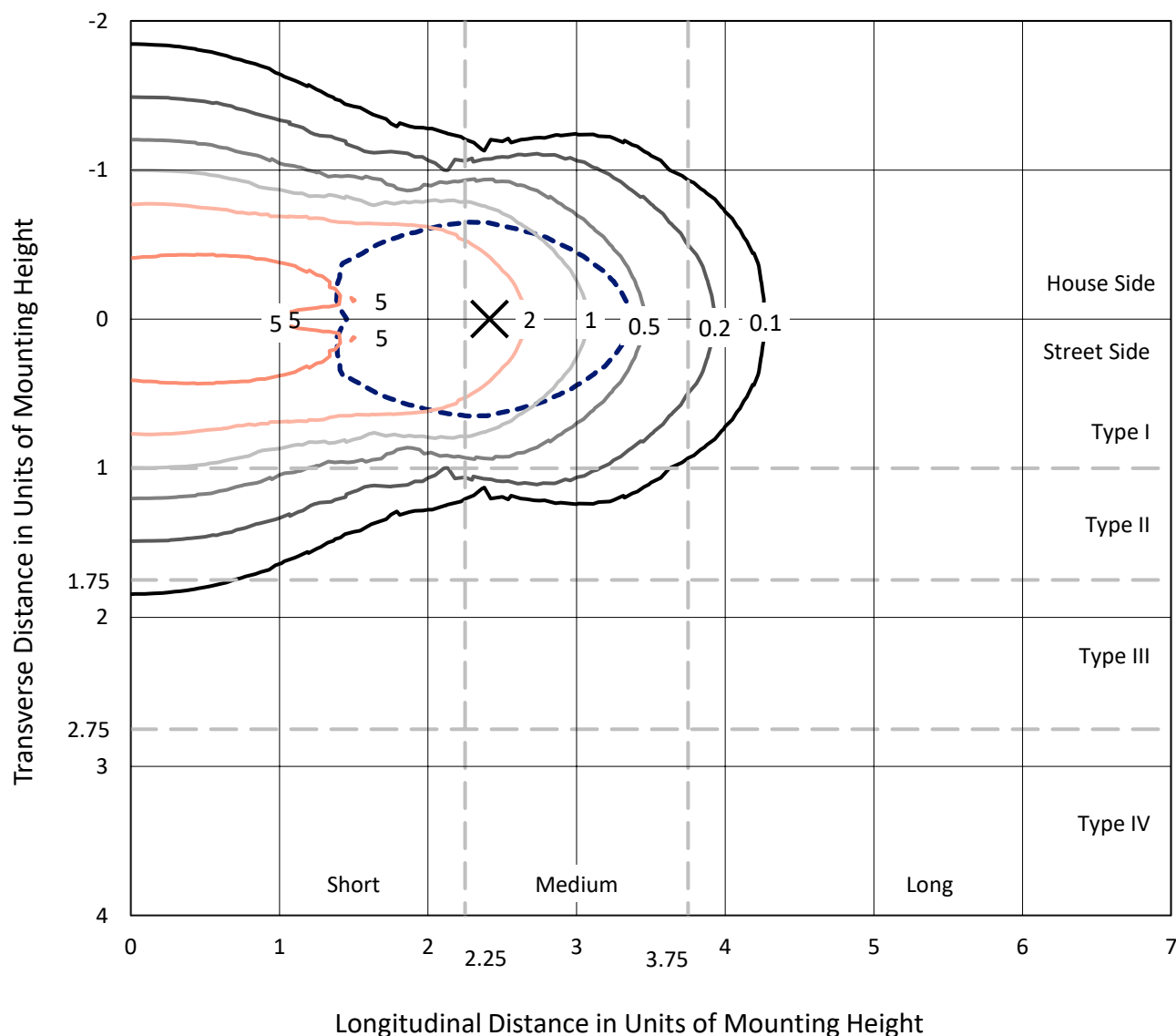
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



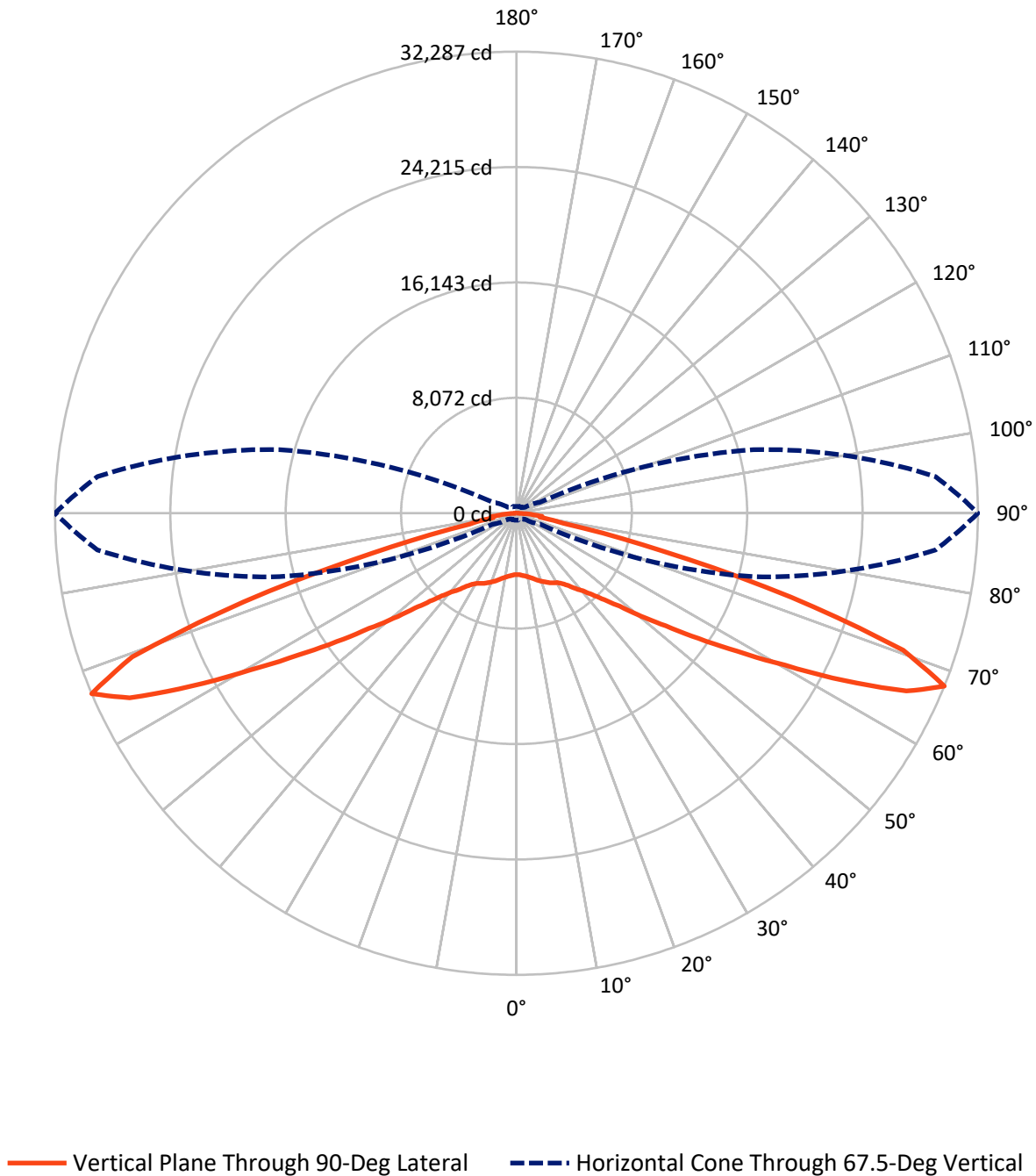
Based on 25 foot mounting height. Maximum calculated value = 7.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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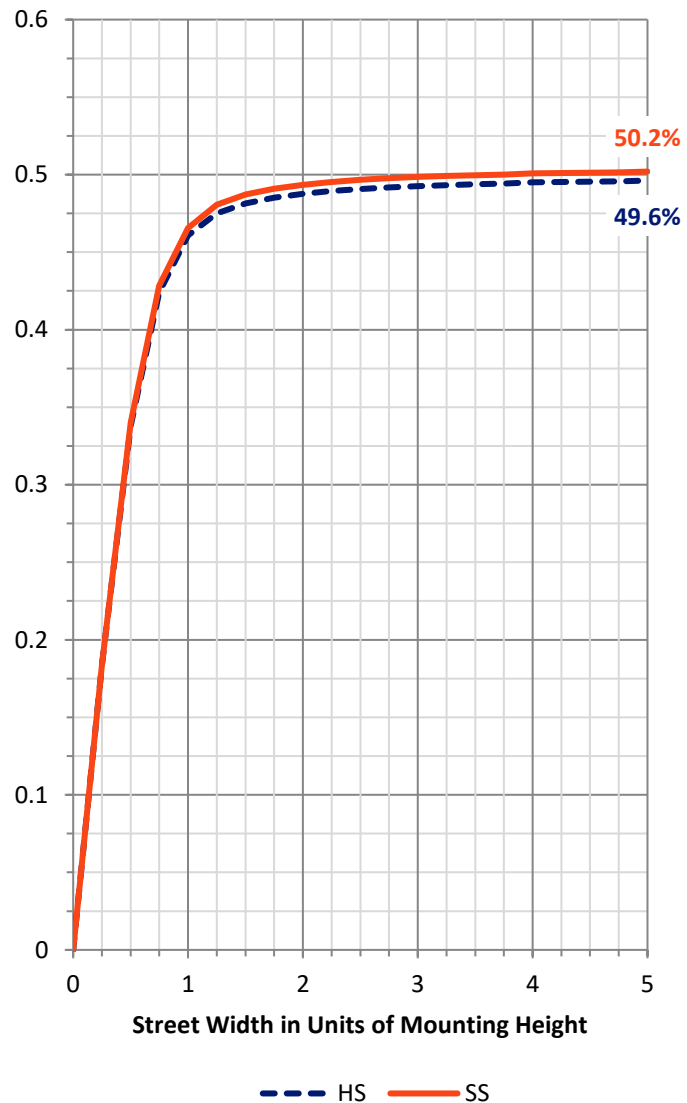
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12137.5	0.0	12137.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12137.5	0.0	12137.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24275.0	0.0	24275.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.5	1.8
10°-20°	1370.8	5.6
20°-30°	2294.4	9.5
30°-40°	3108.3	12.8
40°-50°	3937.2	16.2
50°-60°	4918.5	20.3
60°-70°	5781.5	23.8
70°-80°	2211.7	9.1
80°-90°	224.1	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°	24275.0	100.0
0°-180°	24275.0	100.0

Coefficient of Utilization



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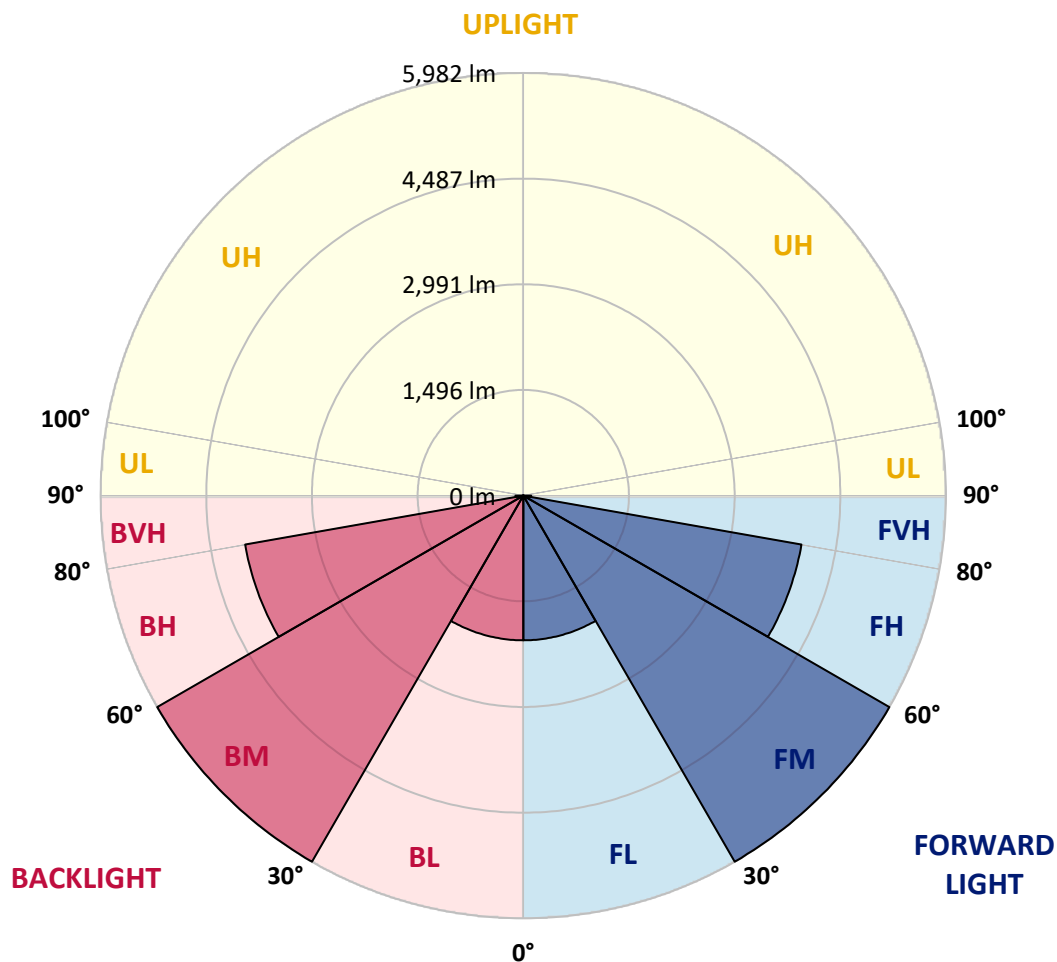
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2046.8	8.4			
FM	(30°-60°)	5982.0	24.6			
FH	(60°-80°)	3996.6	16.5			G2/5000
FVH	(80°-90°)	112.0	0.5			G2/225
BL	(0°-30°)	2046.8	8.4	B3/2500		
BM	(30°-60°)	5982.0	24.6	B4/8500		
BH	(60°-80°)	3996.6	16.5	B4/5000		G4/5000
BVH	(80°-90°)	112.0	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°	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4	4297.4
2.5°	4352.5	4349.9	4351.2	4349.9	4353.9	4351.2	4335.1	4321.6	4310.9	4312.2	4308.2
5°	4445.3	4446.6	4448.0	4441.3	4450.7	4445.3	4419.8	4398.2	4376.7	4368.7	4366.0
7.5°	4521.9	4528.6	4532.7	4539.4	4555.5	4555.5	4542.1	4511.2	4464.1	4437.2	4435.9
10°	4598.5	4603.9	4616.0	4637.5	4664.4	4689.9	4684.6	4642.9	4582.4	4536.7	4525.9
12.5°	4625.4	4632.1	4672.5	4734.3	4794.8	4844.5	4844.5	4810.9	4733.0	4663.1	4642.9
15°	4531.3	4543.4	4616.0	4747.7	4906.4	5015.2	5039.4	4992.4	4909.0	4801.5	4777.3
17.5°	4344.5	4374.1	4480.2	4675.2	4938.6	5164.4	5234.3	5211.5	5104.0	4966.8	4938.6
20°	4144.2	4176.5	4289.4	4547.5	4911.7	5251.8	5454.8	5460.2	5327.1	5128.2	5086.5
22.5°	3923.7	3947.9	4093.1	4395.6	4831.1	5272.0	5644.3	5737.1	5557.0	5289.5	5230.3
25°	3676.4	3703.3	3855.2	4181.8	4679.2	5249.1	5817.7	6022.0	5797.6	5461.5	5386.2
27.5°	3439.8	3450.6	3613.2	3945.2	4478.9	5190.0	5945.4	6284.2	6063.7	5604.0	5508.6
30°	3212.7	3238.2	3382.0	3710.0	4249.0	5074.4	6055.7	6582.6	6350.0	5753.2	5630.9
32.5°	2972.0	3003.0	3158.9	3490.9	4019.2	4901.0	6122.9	6909.2	6749.3	5995.2	5864.8
35°	2740.8	2761.0	2918.3	3240.9	3794.7	4699.3	6135.0	7277.5	7264.1	6362.1	6188.7
37.5°	2504.3	2533.8	2692.4	3001.6	3556.8	4485.6	6074.5	7668.7	7885.1	6871.6	6684.7
40°	2277.1	2302.6	2458.6	2770.4	3286.6	4224.8	5930.6	8026.3	8609.6	7395.8	7131.0
42.5°	2029.8	2036.5	2207.2	2524.4	3021.8	3922.4	5723.6	8344.8	9417.5	8098.8	7769.5
45°	1748.8	1766.3	1924.9	2236.8	2718.0	3583.7	5442.7	8608.3	10441.8	9073.4	8624.4
47.5°	1467.9	1482.7	1627.8	1935.7	2386.0	3195.2	5009.9	8839.5	11493.0	10311.4	9722.7
50°	1193.7	1201.7	1320.0	1592.9	2012.3	2786.5	4473.5	8913.4	12681.3	12064.3	11312.8
52.5°	943.6	955.7	1045.8	1259.5	1613.0	2304.0	3894.2	8730.6	14068.5	14142.4	13083.2
55°	764.9	768.9	836.1	993.4	1260.9	1798.5	3195.2	8221.2	15560.5	16805.3	15454.4
57.5°	658.7	661.4	699.0	786.4	970.5	1356.3	2478.7	7257.4	16900.7	19925.2	18188.5
60°	598.2	599.5	621.0	672.1	768.9	1040.4	1775.7	5897.0	18223.4	23397.3	21586.6
62.5°	560.5	560.5	575.3	603.5	650.6	798.5	1286.4	4254.4	19129.4	26920.4	25775.2
65°	524.2	524.2	535.0	555.2	580.7	653.3	950.4	2774.4	19106.6	29486.5	29987.9
67.5°	482.6	482.6	490.6	510.8	525.6	561.9	733.9	1817.4	17162.8	29430.1	32286.5
70°	432.8	432.8	443.6	461.1	473.2	496.0	579.4	1243.4	12608.7	25128.6	28713.6
72.5°	383.1	384.4	391.2	408.6	418.0	431.5	481.2	871.0	7734.6	17110.4	20077.1
75°	328.0	330.7	337.4	354.9	362.9	368.3	406.0	621.0	3913.0	9225.3	10503.6
77.5°	264.8	270.2	274.2	293.0	298.4	306.5	334.7	449.0	1717.9	3314.8	3344.4
80°	193.6	200.3	212.4	229.9	233.9	239.3	255.4	318.6	778.3	1513.6	1644.0
82.5°	142.5	151.9	137.1	160.0	160.0	153.2	180.1	213.7	357.6	1498.8	1793.2
85°	78.0	79.3	71.2	82.0	87.4	86.0	95.4	104.8	173.4	1000.1	1031.0
87.5°	18.8	20.2	21.5	25.5	30.9	30.9	33.6	29.6	56.5	324.0	185.5
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)