

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: P455020

Luminaire Tested: **GALN-SA6A-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455020
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-SA6A-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 21511 lumens
Efficiency: N/A
Efficacy: 118.2 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): 182
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

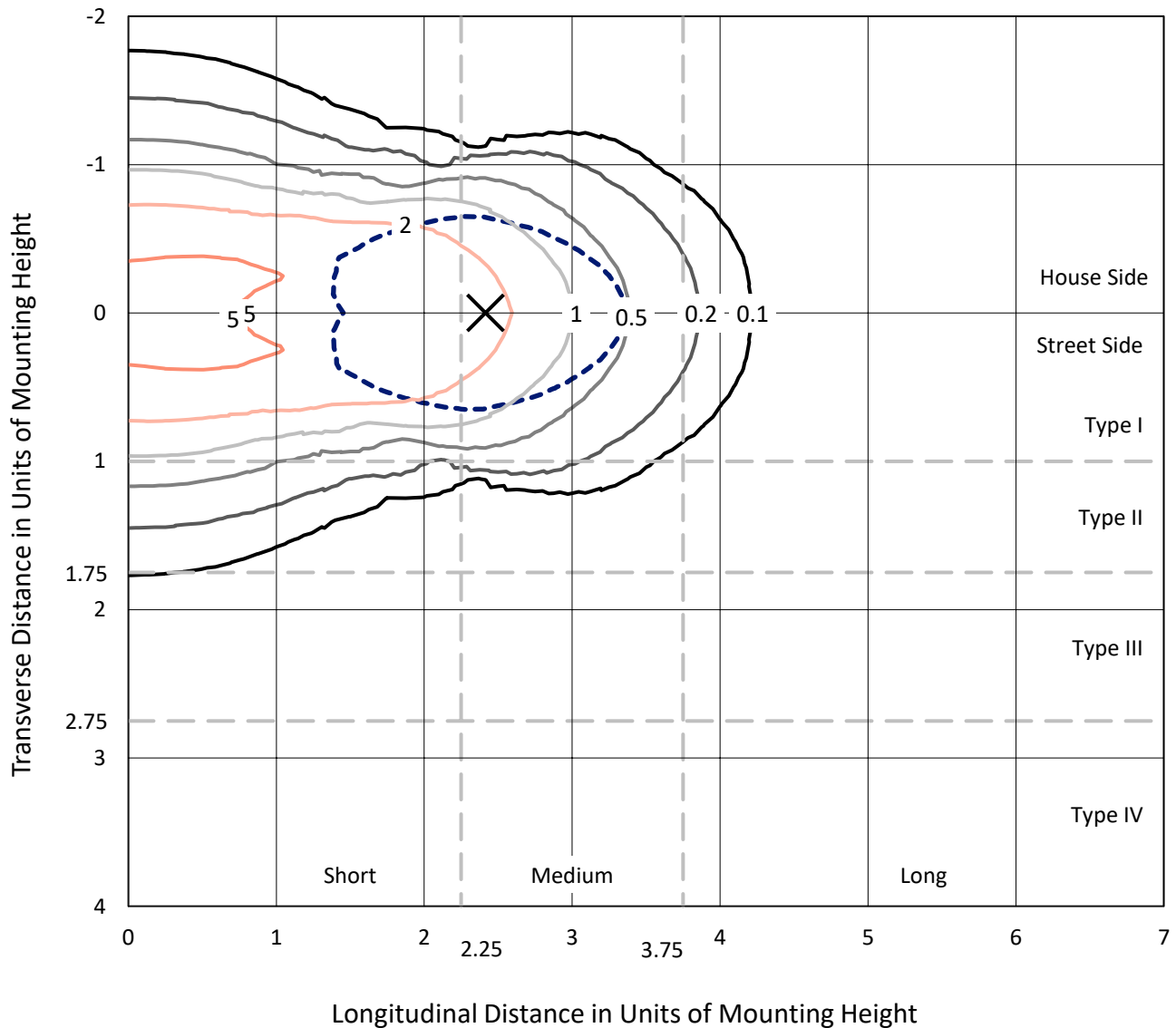


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

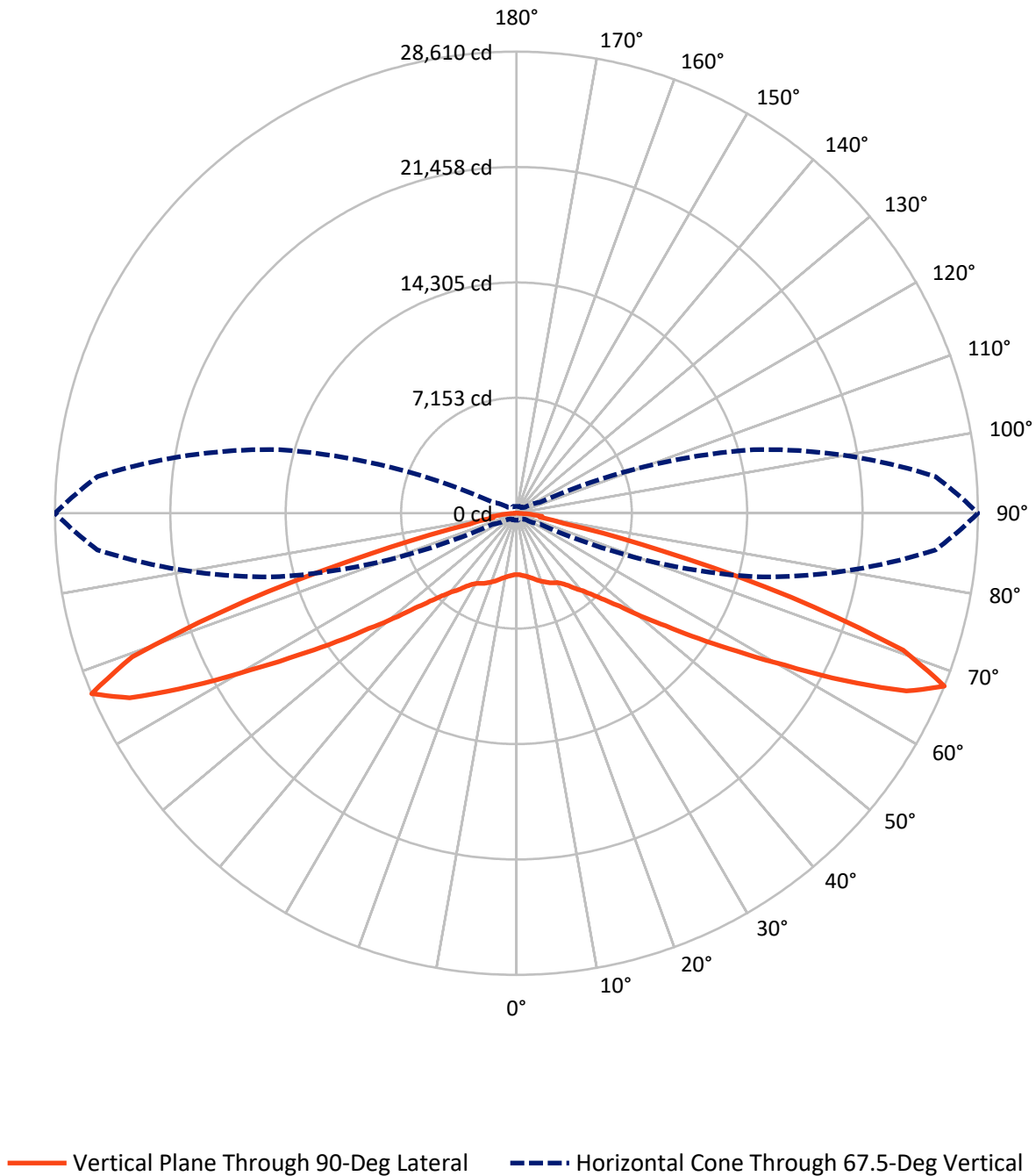


Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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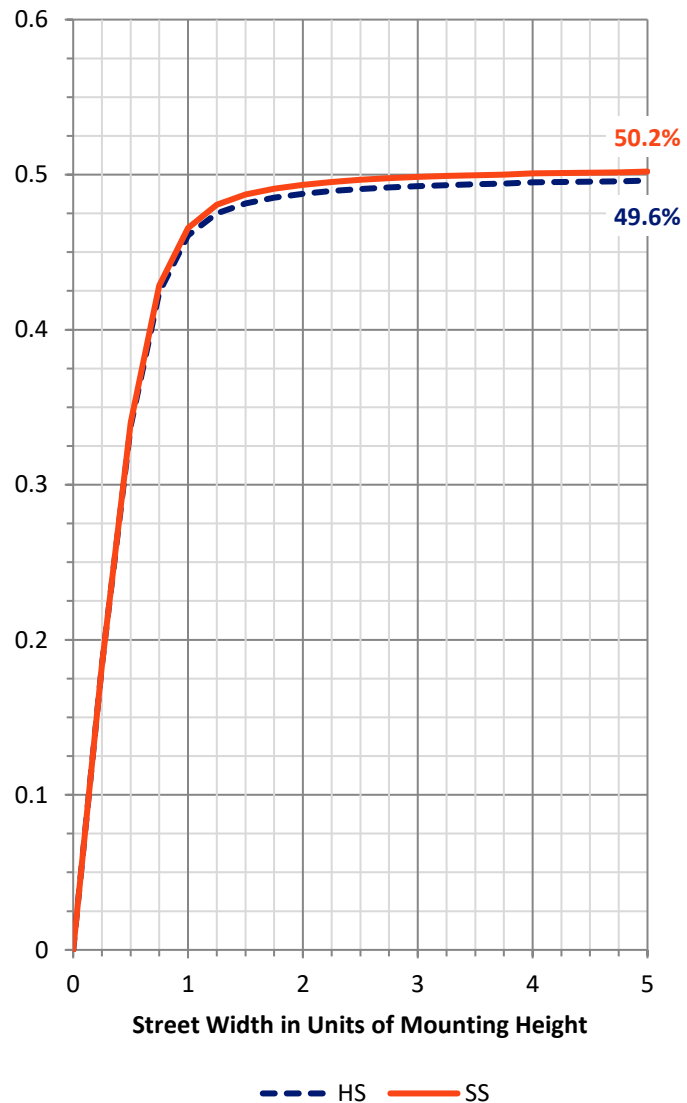
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10755.5	0.0	10755.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10755.5	0.0	10755.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21511.0	0.0	21511.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.7	1.8
10°-20°	1214.7	5.6
20°-30°	2033.2	9.5
30°-40°	2754.4	12.8
40°-50°	3488.9	16.2
50°-60°	4358.5	20.3
60°-70°	5123.2	23.8
70°-80°	1959.9	9.1
80°-90°	198.6	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°	21511.0	100.0
0°-180°	21511.0	100.0

Coefficient of Utilization



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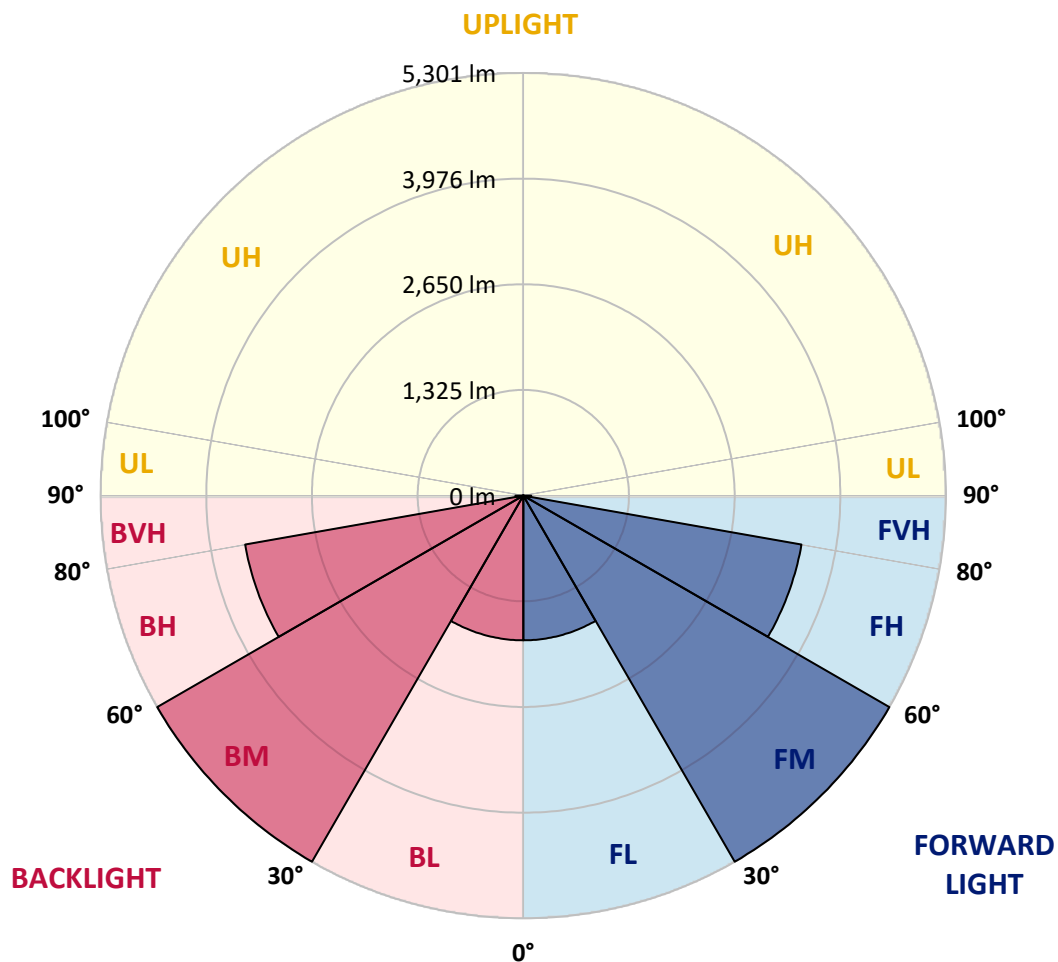
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1813.8	8.4			
FM	(30°-60°)	5300.9	24.6			
FH	(60°-80°)	3541.5	16.5			G2/5000
FVH	(80°-90°)	99.3	0.5			G1/100
BL	(0°-30°)	1813.8	8.4	B3/2500		
BM	(30°-60°)	5300.9	24.6	B4/8500		
BH	(60°-80°)	3541.5	16.5	B4/5000		G4/5000
BVH	(80°-90°)	99.3	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°	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1
2.5°	3857.0	3854.6	3855.8	3854.6	3858.1	3855.8	3841.5	3829.6	3820.0	3821.2	3817.6
5°	3939.1	3940.3	3941.5	3935.6	3943.9	3939.1	3916.5	3897.5	3878.4	3871.2	3868.9
7.5°	4007.0	4013.0	4016.6	4022.5	4036.8	4036.8	4024.9	3997.5	3955.8	3932.0	3930.8
10°	4074.9	4079.7	4090.4	4109.5	4133.3	4155.9	4151.2	4114.2	4060.6	4020.1	4010.6
12.5°	4098.8	4104.7	4140.4	4195.2	4248.8	4292.9	4292.9	4263.1	4194.1	4132.1	4114.2
15°	4015.4	4026.1	4090.4	4207.2	4347.7	4444.2	4465.6	4423.9	4350.1	4254.8	4233.4
17.5°	3849.8	3876.0	3970.1	4142.8	4376.3	4576.4	4638.4	4618.1	4522.8	4401.3	4376.3
20°	3672.3	3700.9	3801.0	4029.7	4352.5	4653.8	4833.7	4838.5	4720.5	4544.2	4507.3
22.5°	3477.0	3498.4	3627.1	3895.1	4281.0	4671.7	5001.7	5083.8	4924.2	4687.2	4634.8
25°	3257.8	3281.6	3416.2	3705.7	4146.4	4651.5	5155.3	5336.4	5137.4	4839.7	4773.0
27.5°	3048.2	3057.7	3201.8	3496.0	3968.9	4599.0	5268.5	5568.6	5373.3	4965.9	4881.3
30°	2846.9	2869.5	2996.9	3287.6	3765.2	4496.6	5366.1	5833.1	5627.0	5098.1	4989.7
32.5°	2633.6	2661.0	2799.2	3093.4	3561.5	4342.9	5425.7	6122.5	5980.8	5312.5	5197.0
35°	2428.8	2446.6	2586.0	2871.9	3362.6	4164.3	5436.4	6448.9	6437.0	5637.7	5484.1
37.5°	2219.1	2245.3	2385.9	2659.8	3151.8	3974.9	5382.8	6795.5	6987.3	6089.2	5923.6
40°	2017.8	2040.4	2178.6	2455.0	2912.4	3743.8	5255.4	7112.4	7629.3	6553.7	6319.1
42.5°	1798.6	1804.6	1955.9	2237.0	2677.7	3475.8	5071.9	7394.7	8345.2	7176.7	6884.9
45°	1549.7	1565.2	1705.7	1982.1	2408.5	3175.6	4823.0	7628.1	9252.9	8040.3	7642.4
47.5°	1300.7	1313.8	1442.5	1715.3	2114.3	2831.4	4439.4	7833.0	10184.4	9137.3	8615.6
50°	1057.7	1064.9	1169.7	1411.5	1783.2	2469.3	3964.2	7898.5	11237.3	10690.6	10024.7
52.5°	836.2	846.9	926.7	1116.1	1429.4	2041.6	3450.8	7736.5	12466.6	12532.1	11593.5
55°	677.8	681.3	740.9	880.3	1117.3	1593.8	2831.4	7285.1	13788.8	14891.8	13694.7
57.5°	583.7	586.0	619.4	696.8	860.0	1201.9	2196.5	6431.0	14976.4	17656.5	16117.5
60°	530.1	531.3	550.3	595.6	681.3	922.0	1573.5	5225.6	16148.5	20733.2	19128.7
62.5°	496.7	496.7	509.8	534.8	576.5	707.5	1139.9	3770.0	16951.3	23855.2	22840.4
65°	464.5	464.5	474.1	491.9	514.6	578.9	842.1	2458.5	16931.1	26129.1	26573.4
67.5°	427.6	427.6	434.8	452.6	465.7	497.9	650.4	1610.4	15208.6	26079.1	28610.3
70°	383.6	383.6	393.1	408.6	419.3	439.5	513.4	1101.8	11173.0	22267.4	25444.2
72.5°	339.5	340.7	346.6	362.1	370.4	382.4	426.4	771.9	6853.9	15162.2	17791.1
75°	290.6	293.0	299.0	314.5	321.6	326.4	359.7	550.3	3467.4	8174.9	9307.7
77.5°	234.7	239.4	243.0	259.7	264.4	271.6	296.6	397.8	1522.3	2937.4	2963.6
80°	171.5	177.5	188.2	203.7	207.3	212.0	226.3	282.3	689.7	1341.2	1456.8
82.5°	126.3	134.6	121.5	141.7	141.7	135.8	159.6	189.4	316.8	1328.1	1589.0
85°	69.1	70.3	63.1	72.7	77.4	76.2	84.6	92.9	153.7	886.2	913.6
87.5°	16.7	17.9	19.1	22.6	27.4	27.4	29.8	26.2	50.0	287.1	164.4
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)