

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: P456412

Luminaire Tested: **GALN-SA7C-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456412
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-SA7C-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38844 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 377
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



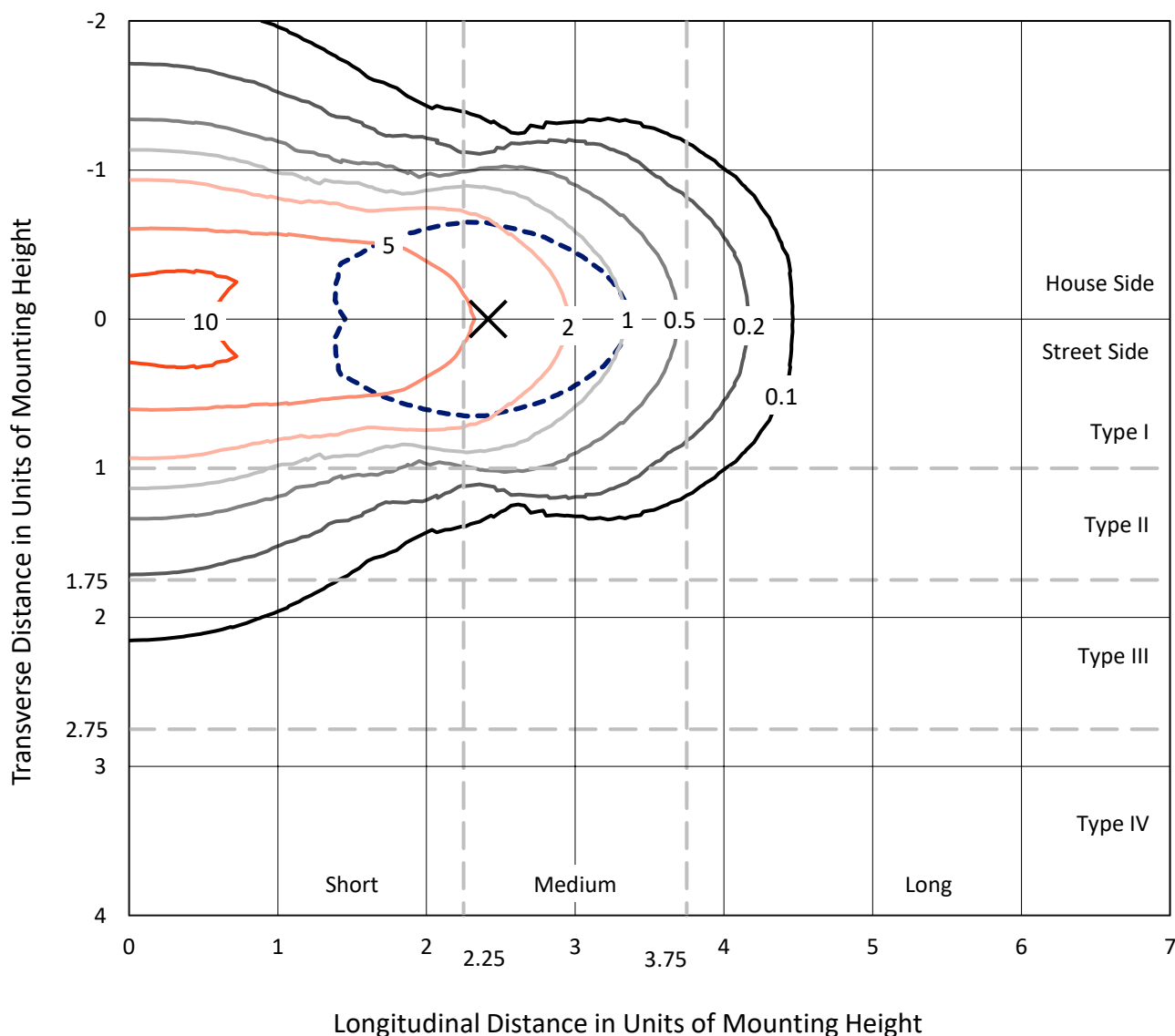
REPORT NUMBER: P456412

CATALOG NUMBER: GALN-SA7C-830-U-T1

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

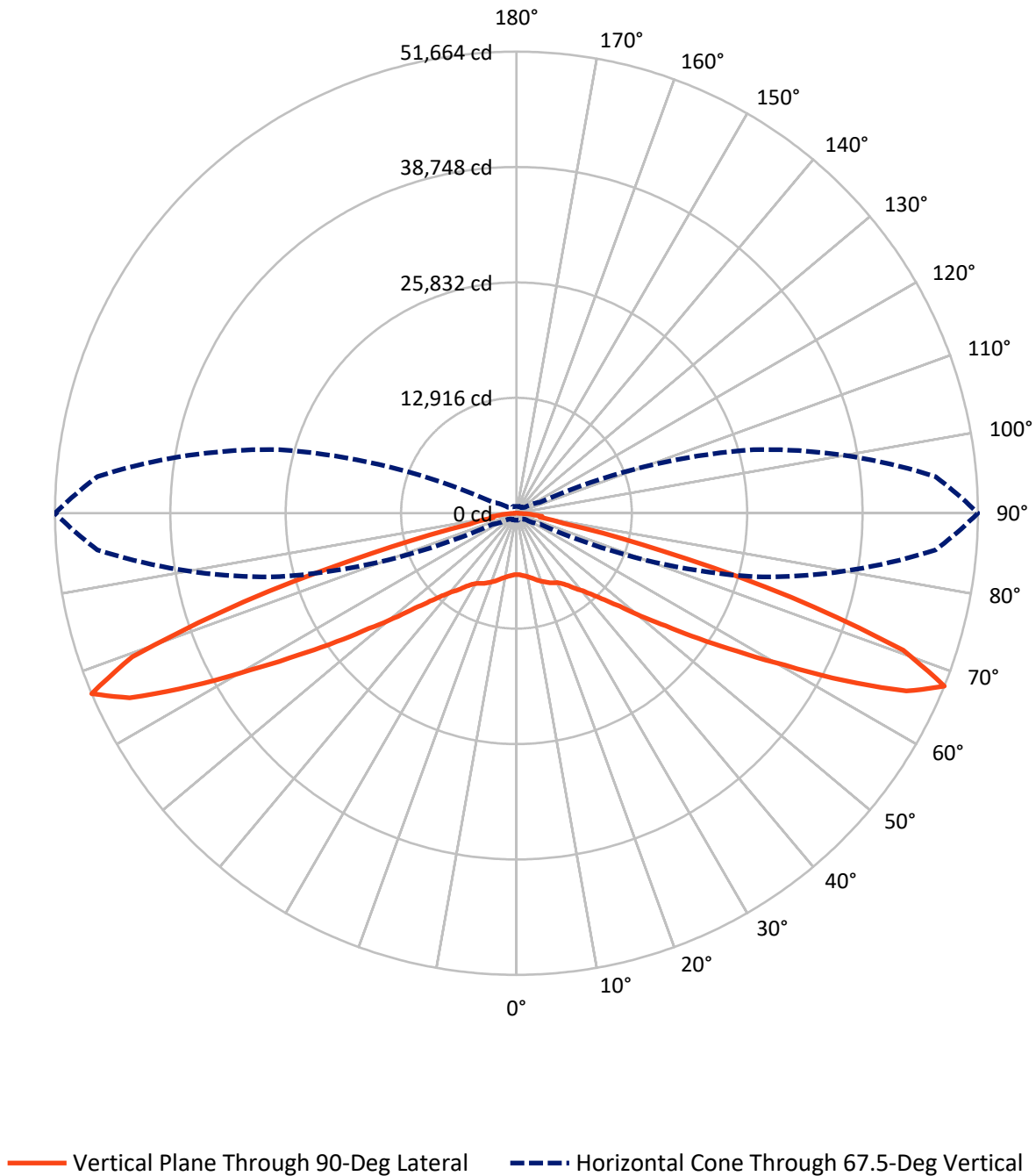


Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type I - Short - N/A

REPORT NUMBER: P456412

CATALOG NUMBER: GALN-SA7C-830-U-T1

Luminous Intensity Polar Plot



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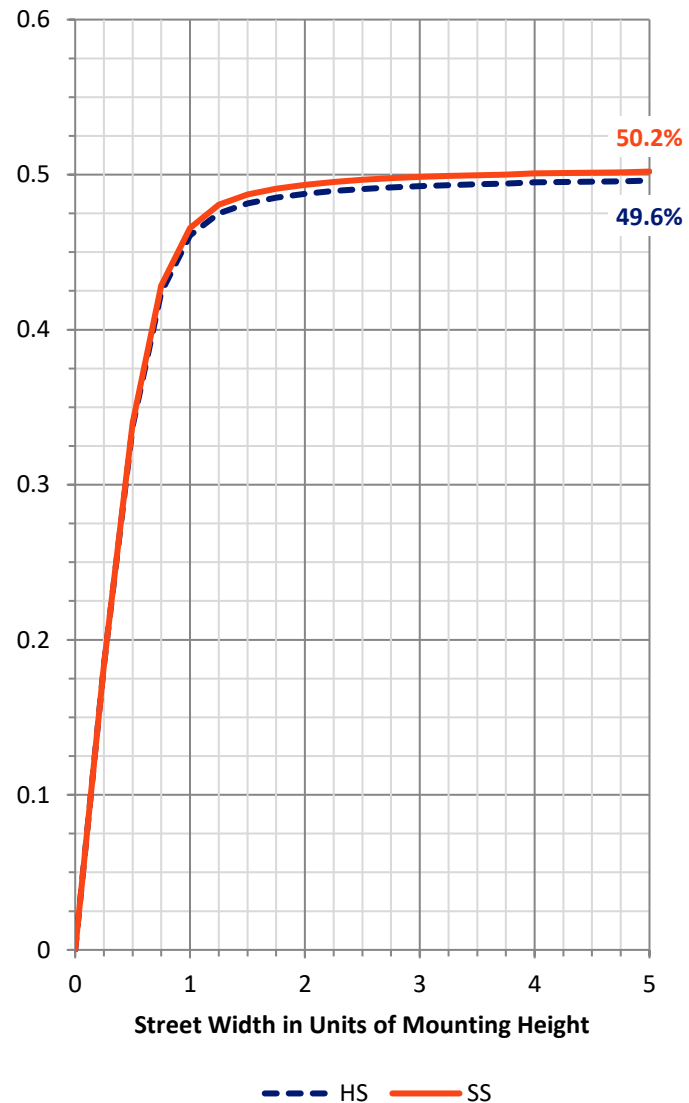
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19422.0	0.0	19422.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19422.0	0.0	19422.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	38844.0	0.0	38844.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	685.6	1.8
10°-20°	2193.5	5.6
20°-30°	3671.4	9.5
30°-40°	4973.8	12.8
40°-50°	6300.1	16.2
50°-60°	7870.5	20.3
60°-70°	9251.4	23.8
70°-80°	3539.1	9.1
80°-90°	358.6	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°	38844.0	100.0
0°-180°	38844.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456412

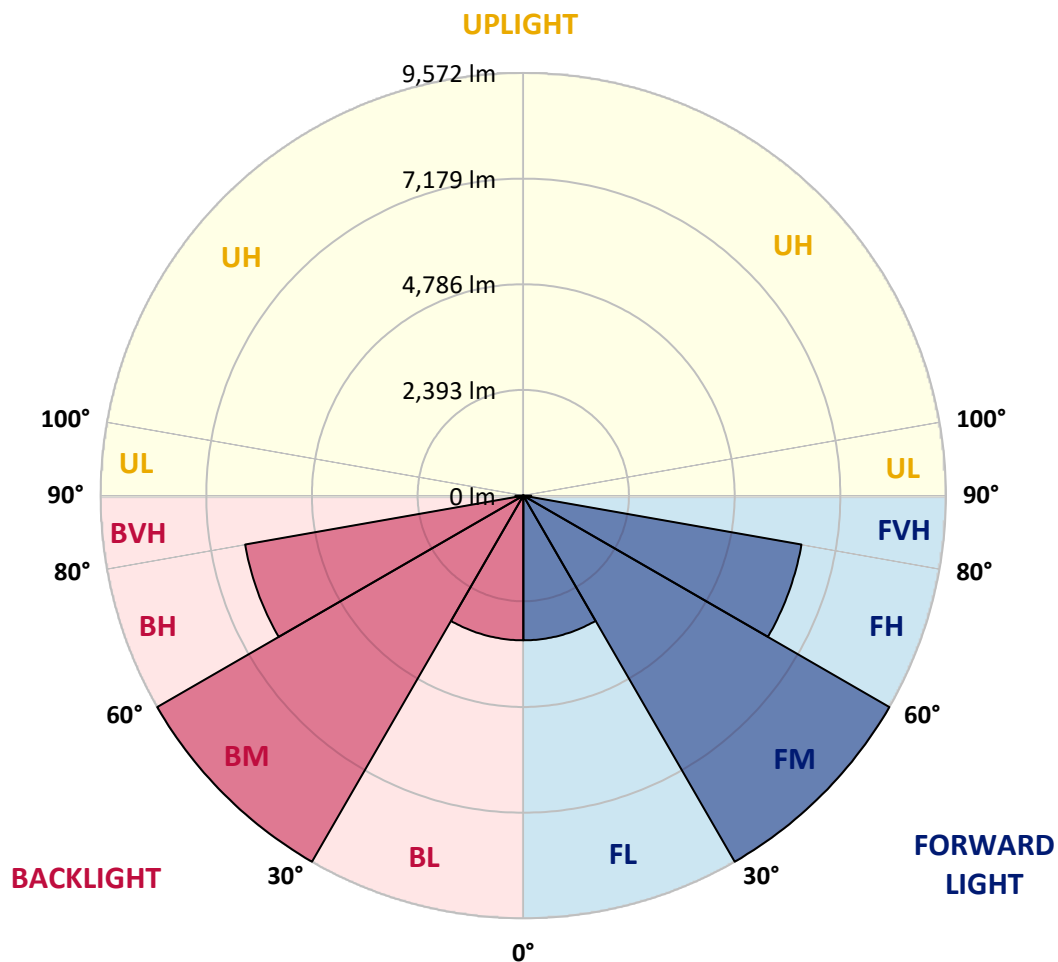
CATALOG NUMBER: GALN-SA7C-830-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3275.3	8.4			
FM	(30°-60°)	9572.2	24.6			
FH	(60°-80°)	6395.2	16.5			G3/7500
FVH	(80°-90°)	179.3	0.5			G2/225
BL	(0°-30°)	3275.3	8.4	B4/5000		
BM	(30°-60°)	9572.2	24.6	B5		
BH	(60°-80°)	6395.2	16.5	B5		G5
BVH	(80°-90°)	179.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CATALOG NUMBER: GALN-SA7C-830-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6876.6	6876.6	6876.6	6876.6	6876.6	6876.6	6876.6	6876.6	6876.6	6876.6	6876.6
2.5°	6964.8	6960.5	6962.6	6960.5	6966.9	6962.6	6936.8	6915.3	6898.1	6900.3	6893.8
5°	7113.2	7115.4	7117.5	7106.7	7121.8	7113.2	7072.3	7037.9	7003.5	6990.6	6986.3
7.5°	7235.8	7246.6	7253.0	7263.8	7289.6	7289.6	7268.1	7218.6	7143.3	7100.3	7098.1
10°	7358.4	7367.0	7386.4	7420.8	7463.8	7504.7	7496.1	7429.4	7332.6	7259.5	7242.3
12.5°	7401.4	7412.2	7476.7	7575.7	7672.5	7752.0	7752.0	7698.3	7573.5	7461.7	7429.4
15°	7250.9	7270.2	7386.4	7597.2	7851.0	8025.2	8063.9	7988.6	7855.3	7683.2	7644.5
17.5°	6951.9	6999.2	7169.1	7481.0	7902.6	8264.0	8375.8	8339.2	8167.2	7947.8	7902.6
20°	6631.4	6683.0	6863.7	7276.7	7859.6	8403.8	8728.6	8737.2	8524.2	8205.9	8139.2
22.5°	6278.6	6317.3	6549.7	7033.6	7730.5	8436.0	9031.9	9180.3	8892.0	8464.0	8369.4
25°	5882.9	5925.9	6168.9	6691.6	7487.5	8399.5	9309.3	9636.3	9277.1	8739.3	8618.9
27.5°	5504.3	5521.5	5781.8	6313.0	7167.0	8304.8	9513.7	10055.7	9702.9	8967.3	8814.6
30°	5140.8	5181.6	5411.8	5936.6	6799.2	8119.8	9690.0	10533.2	10161.1	9206.1	9010.3
32.5°	4755.8	4805.2	5054.7	5586.0	6431.4	7842.4	9797.6	11055.9	10799.9	9593.3	9384.6
35°	4385.8	4418.1	4669.7	5185.9	6072.1	7519.7	9817.0	11645.3	11623.8	10180.5	9903.0
37.5°	4007.2	4054.5	4308.4	4803.1	5691.4	7177.7	9720.2	12271.2	12617.5	10995.7	10696.7
40°	3643.7	3684.6	3934.1	4433.1	5259.1	6760.4	9490.0	12843.3	13776.9	11834.5	11410.8
42.5°	3247.9	3258.7	3531.9	4039.5	4835.3	6276.5	9158.8	13353.1	15069.6	12959.5	12432.5
45°	2798.4	2826.4	3080.2	3579.2	4349.2	5734.4	8709.2	13774.7	16708.6	14518.9	13800.5
47.5°	2348.8	2372.5	2604.8	3097.4	3817.9	5112.8	8016.6	14144.7	18390.6	16500.0	15557.8
50°	1910.0	1923.0	2112.2	2548.9	3220.0	4458.9	7158.4	14263.0	20292.1	19304.8	18102.4
52.5°	1510.0	1529.3	1673.4	2015.4	2581.1	3686.7	6231.3	13970.4	22511.9	22630.2	20935.2
55°	1223.9	1230.3	1337.9	1589.6	2017.6	2878.0	5112.8	13155.2	24899.4	26891.2	24729.5
57.5°	1054.0	1058.3	1118.5	1258.3	1553.0	2170.3	3966.4	11613.0	27043.9	31883.6	29104.5
60°	957.2	959.3	993.7	1075.5	1230.3	1664.8	2841.4	9436.2	29160.5	37439.5	34542.2
62.5°	896.9	896.9	920.6	965.8	1041.1	1277.7	2058.5	6807.8	30610.2	43077.1	41244.5
65°	838.9	838.9	856.1	888.3	929.2	1045.4	1520.7	4439.6	30573.6	47183.3	47985.6
67.5°	772.2	772.2	785.1	817.4	841.0	899.1	1174.4	2908.1	27463.4	47093.0	51663.7
70°	692.6	692.6	709.8	737.8	757.1	793.7	927.1	1989.6	20175.9	40209.9	45946.5
72.5°	613.0	615.2	625.9	653.9	668.9	690.5	770.0	1393.8	12376.6	27379.5	32126.6
75°	524.8	529.1	539.9	567.9	580.8	589.4	649.6	993.7	6261.4	14762.0	16807.5
77.5°	423.7	432.3	438.8	468.9	477.5	490.4	535.6	718.4	2748.9	5304.3	5351.6
80°	309.7	320.5	339.9	367.8	374.3	382.9	408.7	509.8	1245.4	2422.0	2630.6
82.5°	228.0	243.1	219.4	256.0	256.0	245.2	288.2	342.0	572.2	2398.3	2869.4
85°	124.8	126.9	114.0	131.2	139.8	137.7	152.7	167.8	277.5	1600.3	1649.8
87.5°	30.1	32.3	34.4	40.9	49.5	49.5	53.8	47.3	90.3	518.4	296.8
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)