

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: STREETWORKS

Report Number: P316921

Luminaire Tested: **GAN-SA7B-827-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30650 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

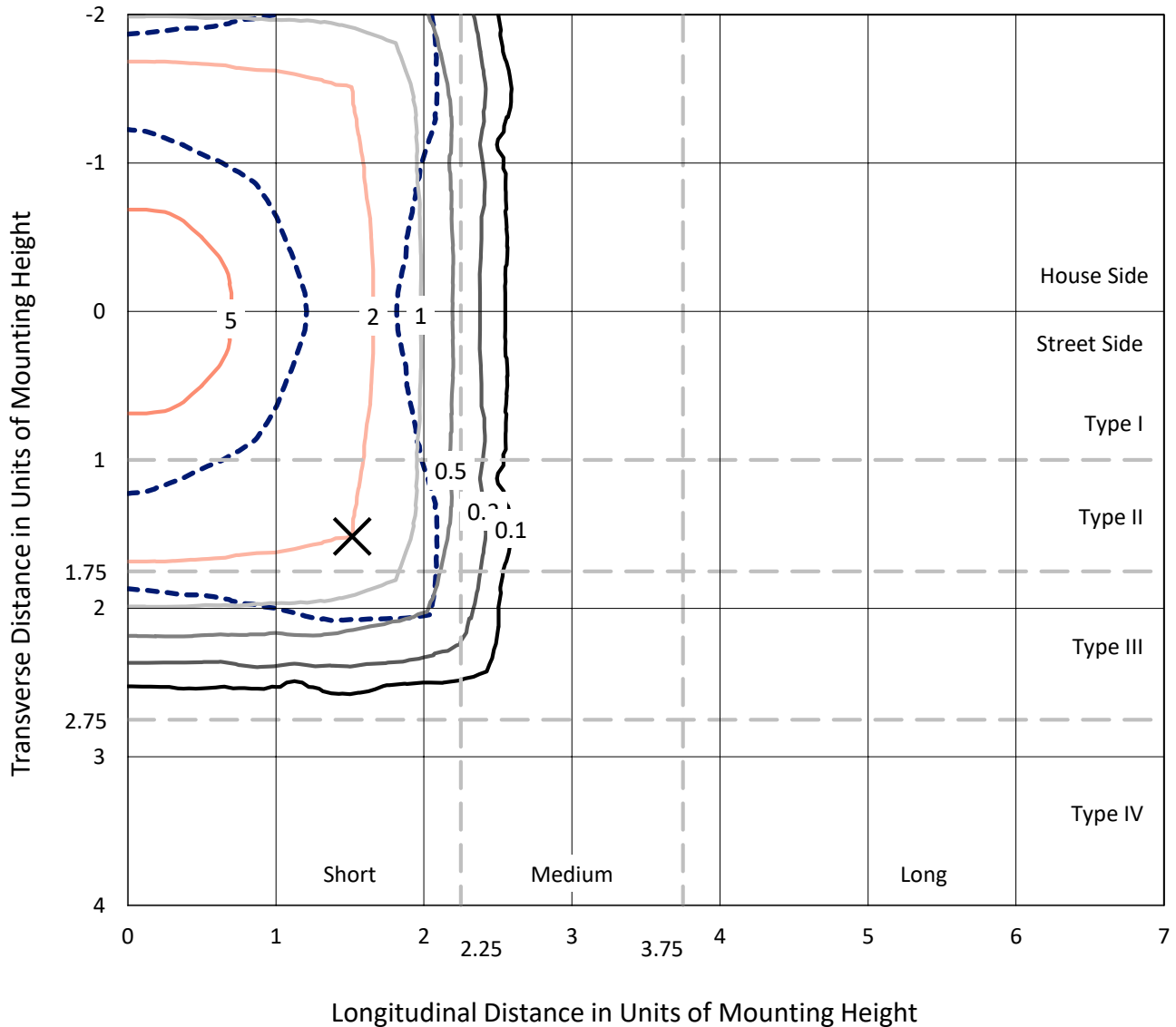
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

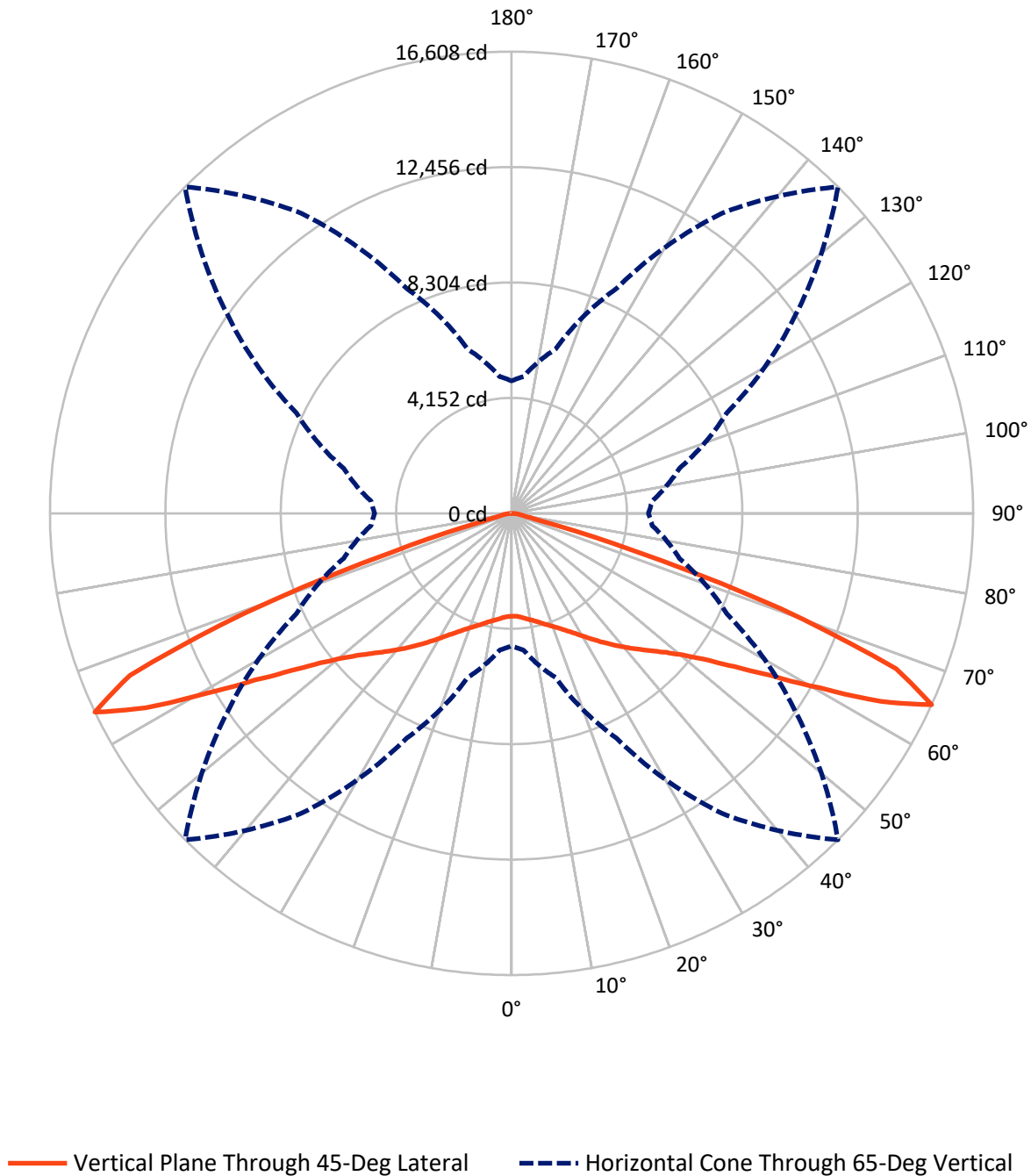
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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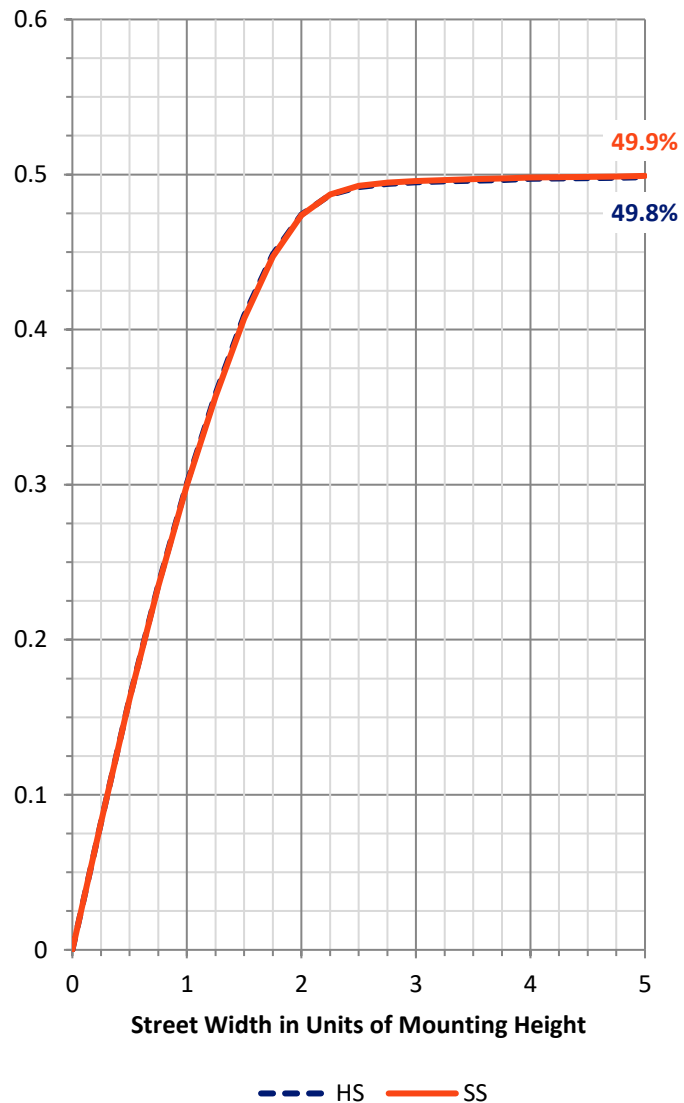
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15325.0	0.0	15325.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15325.0	0.0	15325.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30650.0	0.0	30650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.1	1.2
10°-20°	1167.3	3.8
20°-30°	2190.0	7.1
30°-40°	3621.9	11.8
40°-50°	5609.8	18.3
50°-60°	8603.8	28.1
60°-70°	8028.4	26.2
70°-80°	934.4	3.0
80°-90°	131.3	0.4
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°	30650.0	100.0
0°-180°	30650.0	100.0

Coefficient of Utilization



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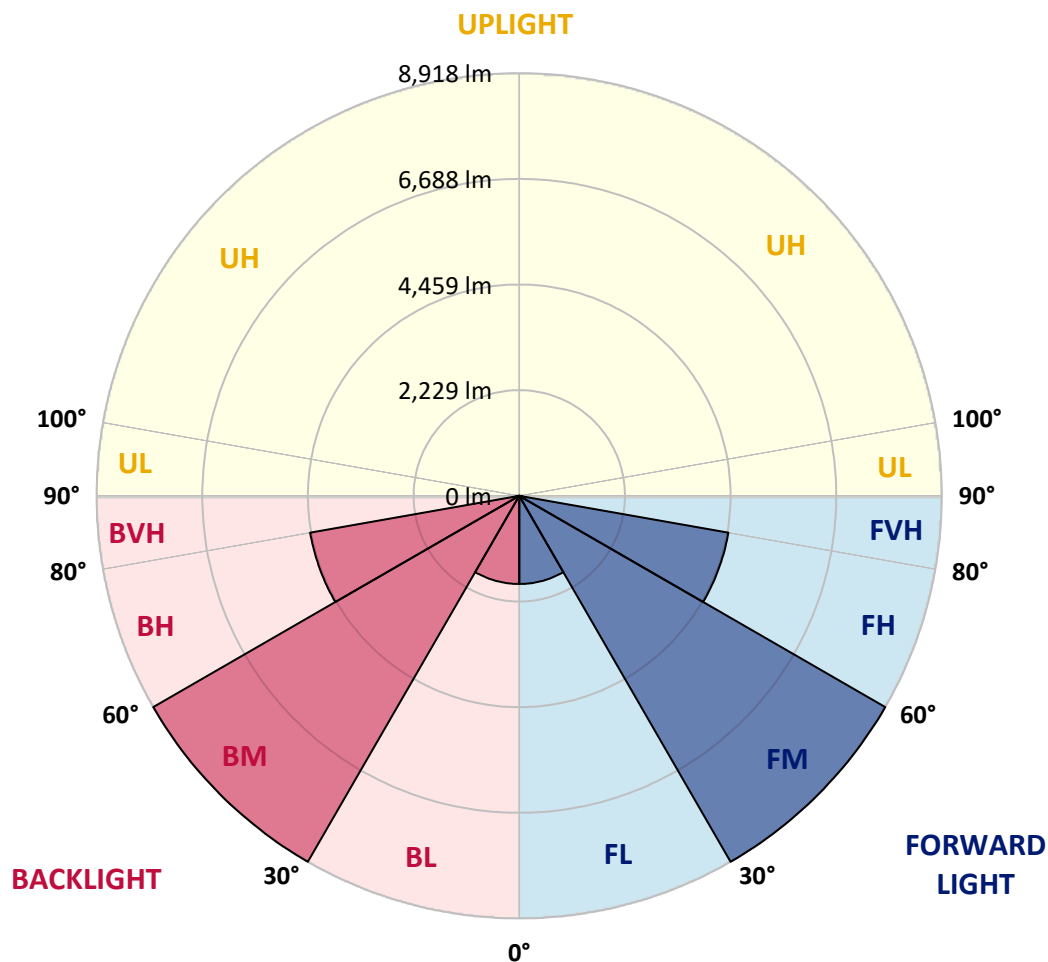
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1860.2	6.1			
FM	(30°-60°)	8917.8	29.1			
FH	(60°-80°)	4481.4	14.6			G2/5000
FVH	(80°-90°)	65.6	0.2			G1/100
BL	(0°-30°)	1860.2	6.1	B3/2500		
BM	(30°-60°)	8917.8	29.1	B5		
BH	(60°-80°)	4481.4	14.6	B4/5000		G2/5000
BVH	(80°-90°)	65.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4
2.5°	3713.6	3711.5	3713.6	3714.6	3708.5	3711.5	3710.5	3715.6	3717.7	3715.6	3715.6
5°	3756.3	3753.3	3757.3	3762.4	3754.3	3756.3	3753.3	3759.4	3761.4	3757.3	3760.4
7.5°	3815.3	3816.3	3820.4	3829.6	3824.5	3828.6	3822.4	3823.5	3822.4	3816.3	3817.4
10°	3879.4	3880.4	3887.6	3899.8	3901.8	3901.8	3897.7	3894.7	3890.6	3886.5	3887.6
12.5°	3956.7	3961.8	3966.9	3982.2	3982.2	3990.3	3988.3	3980.1	3973.0	3966.9	3966.9
15°	4061.5	4060.5	4066.6	4081.9	4089.0	4102.2	4102.2	4091.0	4081.9	4075.8	4073.8
17.5°	4171.4	4174.5	4178.5	4196.9	4208.1	4223.3	4225.3	4216.2	4210.1	4201.9	4196.9
20°	4299.6	4304.7	4321.0	4328.1	4338.3	4352.5	4357.6	4355.6	4349.5	4345.4	4346.4
22.5°	4449.2	4462.4	4472.6	4482.8	4495.0	4505.1	4510.2	4517.3	4511.2	4508.2	4506.2
25°	4630.3	4639.4	4659.8	4678.1	4686.2	4689.3	4695.4	4705.6	4704.6	4697.4	4697.4
27.5°	4835.8	4853.1	4878.5	4905.0	4905.0	4894.8	4915.2	4932.5	4926.3	4917.2	4905.0
30°	5085.1	5101.3	5130.9	5167.5	5149.2	5142.0	5169.5	5201.1	5191.9	5176.6	5174.6
32.5°	5353.7	5368.9	5407.6	5447.3	5423.9	5413.7	5443.2	5489.0	5472.7	5442.2	5423.9
35°	5644.6	5659.9	5714.9	5762.7	5723.0	5705.7	5730.1	5780.0	5751.5	5694.5	5680.3
37.5°	5961.1	5969.2	6040.4	6089.3	6061.8	6016.0	6046.5	6083.2	6058.7	5989.6	5962.1
40°	6289.7	6319.2	6401.6	6458.6	6410.8	6338.5	6389.4	6440.3	6403.6	6315.1	6268.3
42.5°	6673.3	6695.6	6805.5	6856.4	6779.1	6677.3	6746.5	6815.7	6779.1	6693.6	6652.9
45°	7072.1	7106.7	7237.9	7288.8	7176.9	7047.7	7132.1	7253.2	7250.1	7127.0	7084.3
47.5°	7506.5	7541.1	7697.8	7765.0	7643.9	7470.9	7590.0	7760.9	7748.7	7613.4	7578.8
50°	8008.1	8044.7	8240.1	8324.5	8211.6	8010.2	8189.2	8339.8	8317.4	8150.6	8153.6
52.5°	8637.9	8635.9	8879.0	9025.5	8909.6	8731.5	8896.3	9042.8	8950.2	8719.3	8712.2
55°	9189.3	9222.9	9524.1	9801.8	9794.7	9726.5	9792.7	9798.8	9534.2	9227.0	9189.3
57.5°	9551.5	9615.6	10039.9	10542.5	10919.0	11009.5	10881.3	10492.7	9873.0	9381.6	9321.6
60°	9328.7	9426.4	10092.8	11117.4	12226.3	12758.5	12035.1	10829.4	9609.5	8924.8	8843.4
62.5°	7825.0	7989.8	8965.5	10839.6	13351.6	14907.2	12871.4	10289.2	8561.6	7618.4	7479.1
65°	4765.6	4939.6	6115.7	8921.8	13169.5	16608.4	12489.9	8540.2	6249.0	5075.9	4925.3
67.5°	1588.2	1639.1	2331.9	4931.4	10350.2	14922.5	10367.5	5112.5	2719.6	1802.9	1750.0
70°	621.6	626.7	739.7	1429.5	4887.7	10249.5	5393.3	1454.9	773.2	611.5	624.7
72.5°	456.8	458.9	490.4	597.2	1273.8	4515.3	1319.6	600.3	477.2	428.3	428.3
75°	367.3	367.3	389.7	435.5	570.8	1035.7	578.9	430.4	373.4	341.9	337.8
77.5°	290.0	296.1	313.4	342.9	386.6	498.5	400.9	340.8	301.2	271.7	265.5
80°	215.7	221.8	250.3	264.5	277.8	345.9	296.1	266.6	238.1	203.5	197.4
82.5°	141.4	147.5	183.1	191.3	188.2	225.9	199.4	196.4	175.0	131.2	125.1
85°	92.6	94.6	122.1	127.2	117.0	102.8	127.2	134.3	122.1	85.5	82.4
87.5°	43.7	43.7	62.1	58.0	52.9	42.7	58.0	68.2	69.2	41.7	40.7
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)