

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: P316393

Luminaire Tested: **GAN-SA9A-727-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36601 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

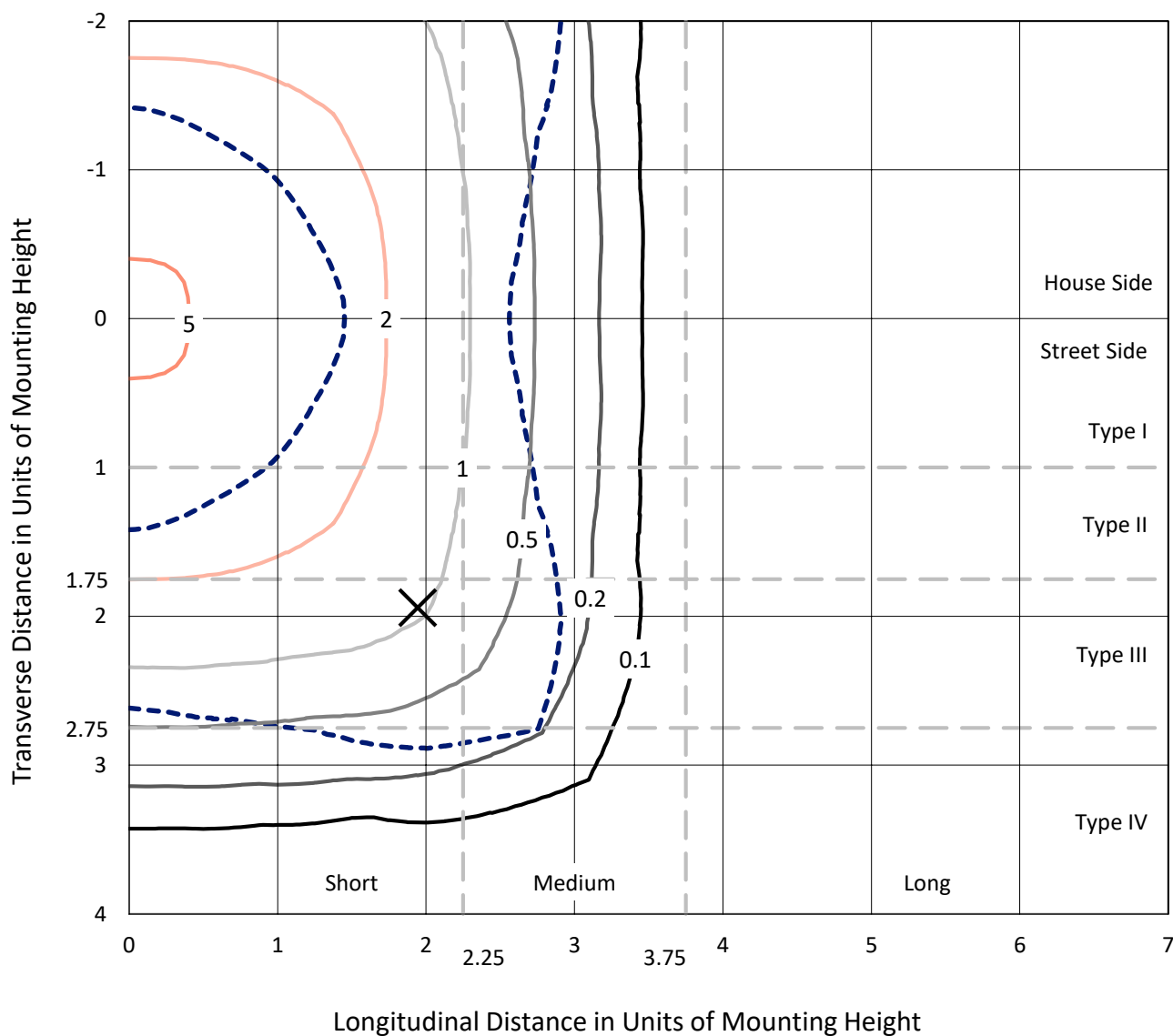
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

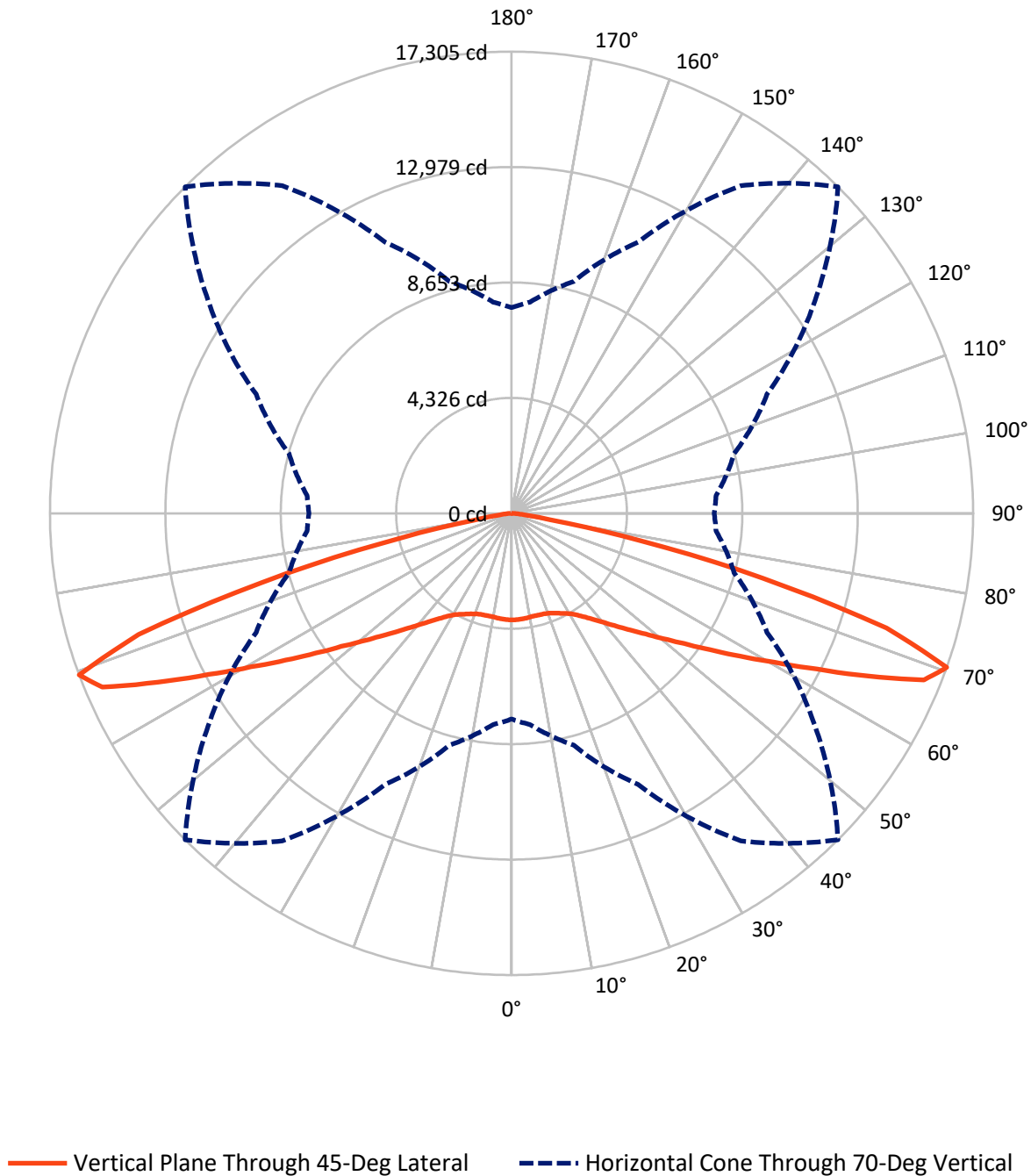
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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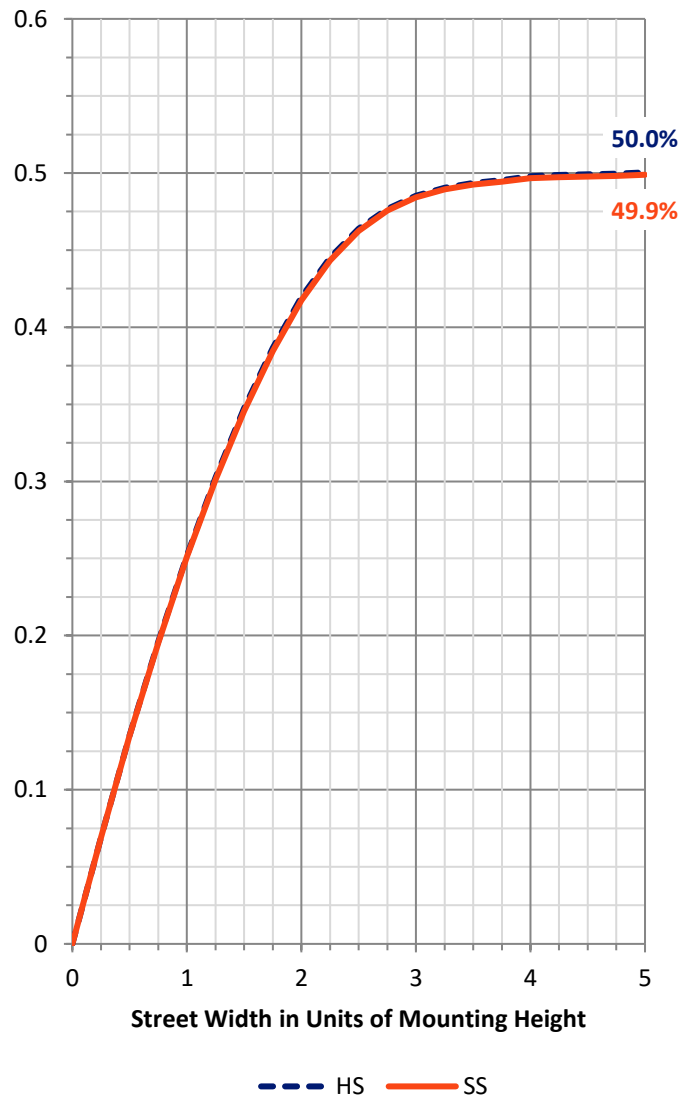
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18300.5	0.0	18300.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18300.5	0.0	18300.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36601.0	0.0	36601.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.6	1.0
10°-20°	1111.5	3.0
20°-30°	1892.1	5.2
30°-40°	3000.8	8.2
40°-50°	4883.2	13.3
50°-60°	8051.5	22.0
60°-70°	11819.9	32.3
70°-80°	5226.7	14.3
80°-90°	236.7	0.6
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°	36601.0	100.0
0°-180°	36601.0	100.0

Coefficient of Utilization



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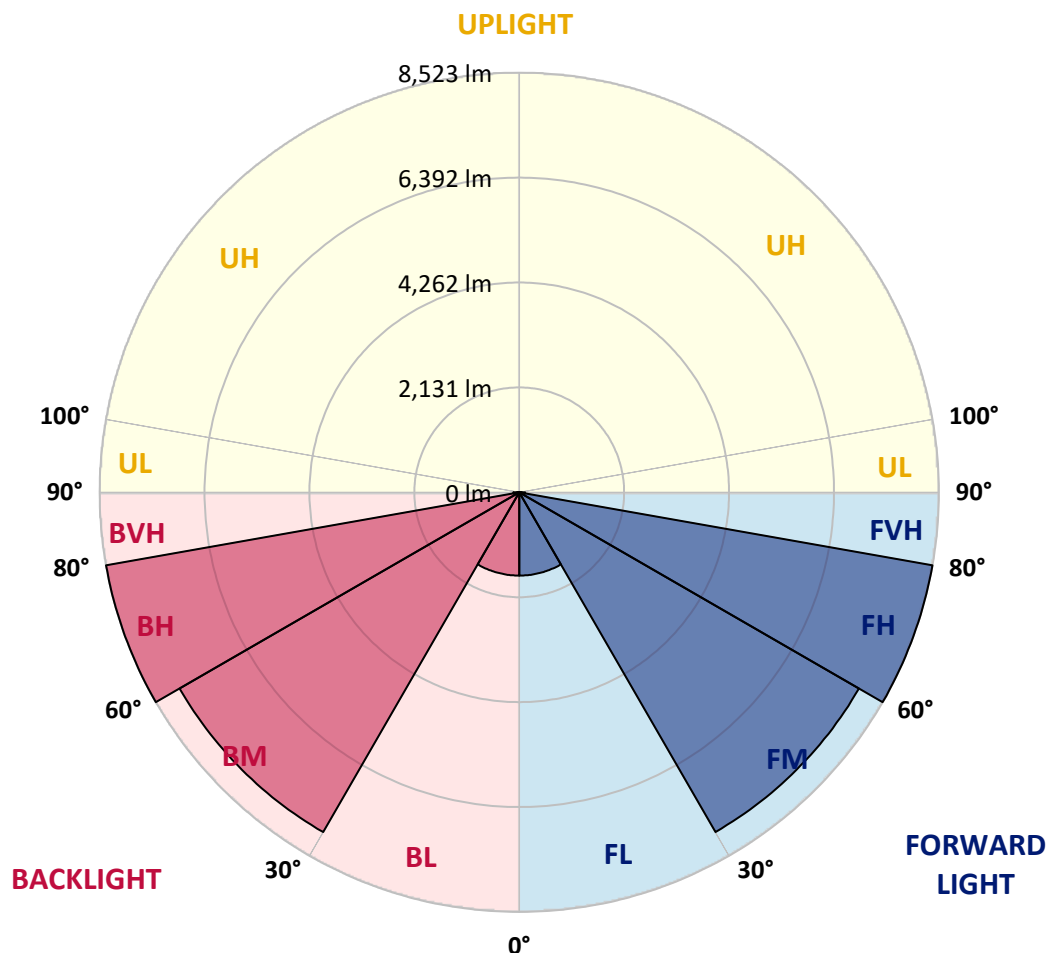
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1691.1	4.6			
FM	(30°-60°)	7967.8	21.8			
FH	(60°-80°)	8523.3	23.3			G4/12000
FVH	(80°-90°)	118.3	0.3			G2/225
BL	(0°-30°)	1691.1	4.6	B3/2500		
BM	(30°-60°)	7967.8	21.8	B4/8500		
BH	(60°-80°)	8523.3	23.3	B5		G4/12000
BVH	(80°-90°)	118.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3997.4	3997.4	3997.4	3997.4	3997.4	3997.4	3997.4	3997.4	3997.4	3997.4	3997.4
2.5°	3991.3	3987.7	3996.2	3995.0	3987.7	3988.9	3988.9	3992.6	3992.6	3990.1	3990.1
5°	3976.8	3974.4	3984.1	3984.1	3976.8	3979.2	3981.7	3985.3	3984.1	3981.7	3980.4
7.5°	3958.6	3957.4	3967.1	3967.1	3962.3	3964.7	3962.3	3963.5	3961.1	3958.6	3955.0
10°	3928.4	3930.8	3939.3	3941.7	3941.7	3942.9	3940.5	3934.4	3930.8	3927.1	3923.5
12.5°	3900.5	3899.3	3911.4	3917.5	3927.1	3938.0	3930.8	3913.8	3906.5	3899.3	3896.9
15°	3882.3	3883.5	3895.6	3906.5	3923.5	3946.5	3938.0	3911.4	3896.9	3888.4	3886.0
17.5°	3878.7	3881.1	3896.9	3916.2	3934.4	3959.8	3955.0	3928.4	3904.1	3888.4	3884.7
20°	3887.2	3888.4	3912.6	3940.5	3972.0	3996.2	3985.3	3956.2	3923.5	3899.3	3893.2
22.5°	3902.9	3907.8	3938.0	3981.7	4030.1	4062.8	4049.5	3999.8	3948.9	3918.7	3910.2
25°	3952.6	3953.8	3995.0	4054.3	4112.5	4150.0	4134.3	4064.0	3998.6	3964.7	3953.8
27.5°	4055.5	4059.2	4100.4	4169.4	4219.1	4243.3	4233.6	4176.7	4121.0	4084.6	4088.2
30°	4204.5	4209.4	4255.4	4331.7	4362.0	4368.1	4365.6	4339.0	4288.1	4239.7	4243.3
32.5°	4386.2	4388.7	4450.4	4519.5	4543.7	4548.6	4543.7	4519.5	4458.9	4393.5	4397.1
35°	4620.0	4627.3	4686.6	4753.3	4772.7	4782.3	4773.9	4742.4	4679.4	4615.2	4612.8
37.5°	4908.3	4909.5	4971.3	5040.4	5064.6	5067.0	5057.3	5036.7	4958.0	4899.8	4896.2
40°	5242.6	5247.5	5320.2	5394.1	5403.8	5392.9	5406.2	5394.1	5312.9	5246.3	5257.2
42.5°	5649.7	5660.6	5747.8	5820.5	5792.6	5786.5	5795.0	5798.7	5733.2	5652.1	5644.8
45°	6123.3	6133.0	6242.0	6300.1	6282.0	6242.0	6259.0	6288.0	6197.2	6096.6	6106.3
47.5°	6663.5	6687.8	6804.1	6858.6	6813.7	6759.2	6791.9	6835.6	6729.0	6604.2	6598.1
50°	7264.4	7294.6	7449.7	7526.0	7481.2	7380.7	7435.2	7464.2	7310.4	7149.3	7136.0
52.5°	7905.2	7935.4	8130.5	8287.9	8258.9	8102.6	8178.9	8148.6	7971.8	7755.0	7738.0
55°	8630.7	8642.9	8853.6	9108.0	9137.1	9022.0	9017.2	8967.5	8705.9	8455.1	8443.0
57.5°	9376.9	9385.4	9658.0	9958.4	10095.2	10095.2	9959.6	9854.2	9506.5	9215.8	9185.5
60°	10182.5	10212.7	10514.4	10922.6	11242.4	11336.9	11097.0	10809.9	10432.0	10077.1	10042.0
62.5°	10899.6	10934.7	11396.2	12004.3	12517.9	12861.9	12275.6	11808.1	11120.0	10550.7	10484.1
65°	10990.4	11084.9	11757.2	12858.3	14007.9	14694.7	13570.6	12418.6	11164.9	10373.9	10306.0
67.5°	10037.1	10197.0	11105.5	12819.5	15195.0	16669.2	14397.9	12069.7	10360.5	9485.9	9410.8
70°	7712.6	7945.1	8992.9	11213.3	14990.2	17305.1	13879.5	10566.5	8638.0	7696.8	7591.4
72.5°	4231.2	4326.9	5269.3	7678.6	12017.6	14705.6	11576.7	7813.1	5728.4	4661.2	4484.4
75°	1342.2	1376.1	1855.8	3142.2	6798.0	9740.3	7354.0	3835.1	2111.4	1556.6	1538.4
77.5°	596.0	599.6	671.1	917.0	2341.5	4935.0	2812.7	1044.2	719.5	628.7	649.3
80°	376.7	376.7	415.5	454.2	637.2	1433.0	760.7	496.6	424.0	393.7	402.2
82.5°	180.5	199.9	270.1	290.7	350.1	482.1	390.0	324.6	283.5	210.8	196.2
85°	118.7	99.3	170.8	192.6	203.5	231.4	226.5	214.4	185.3	105.4	117.5
87.5°	53.3	50.9	88.4	81.2	76.3	58.1	87.2	107.8	104.2	52.1	52.1
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)