

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: P316611

Luminaire Tested: **GAN-SA7C-827-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316611
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-SA7C-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38634 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 391
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

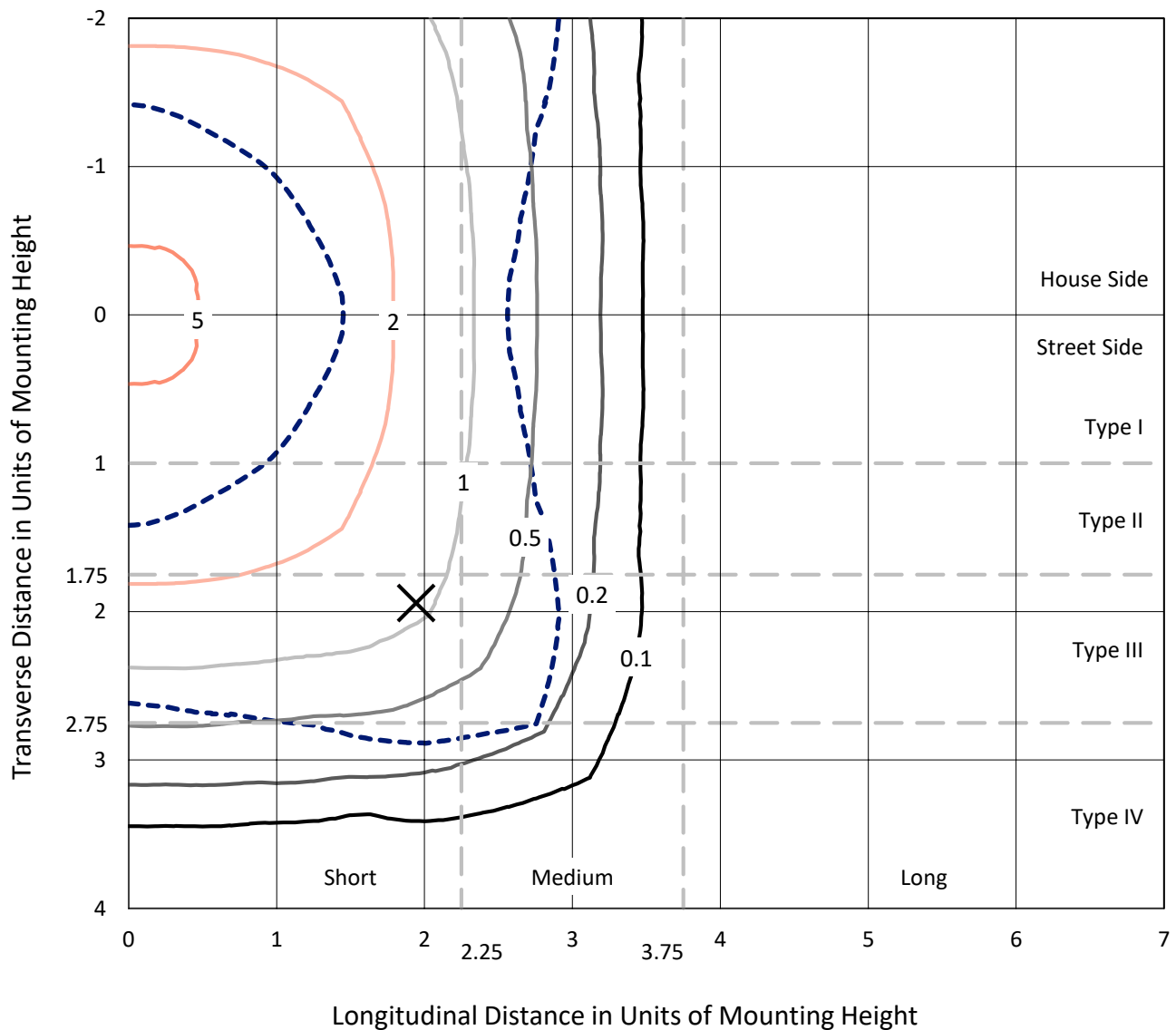


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

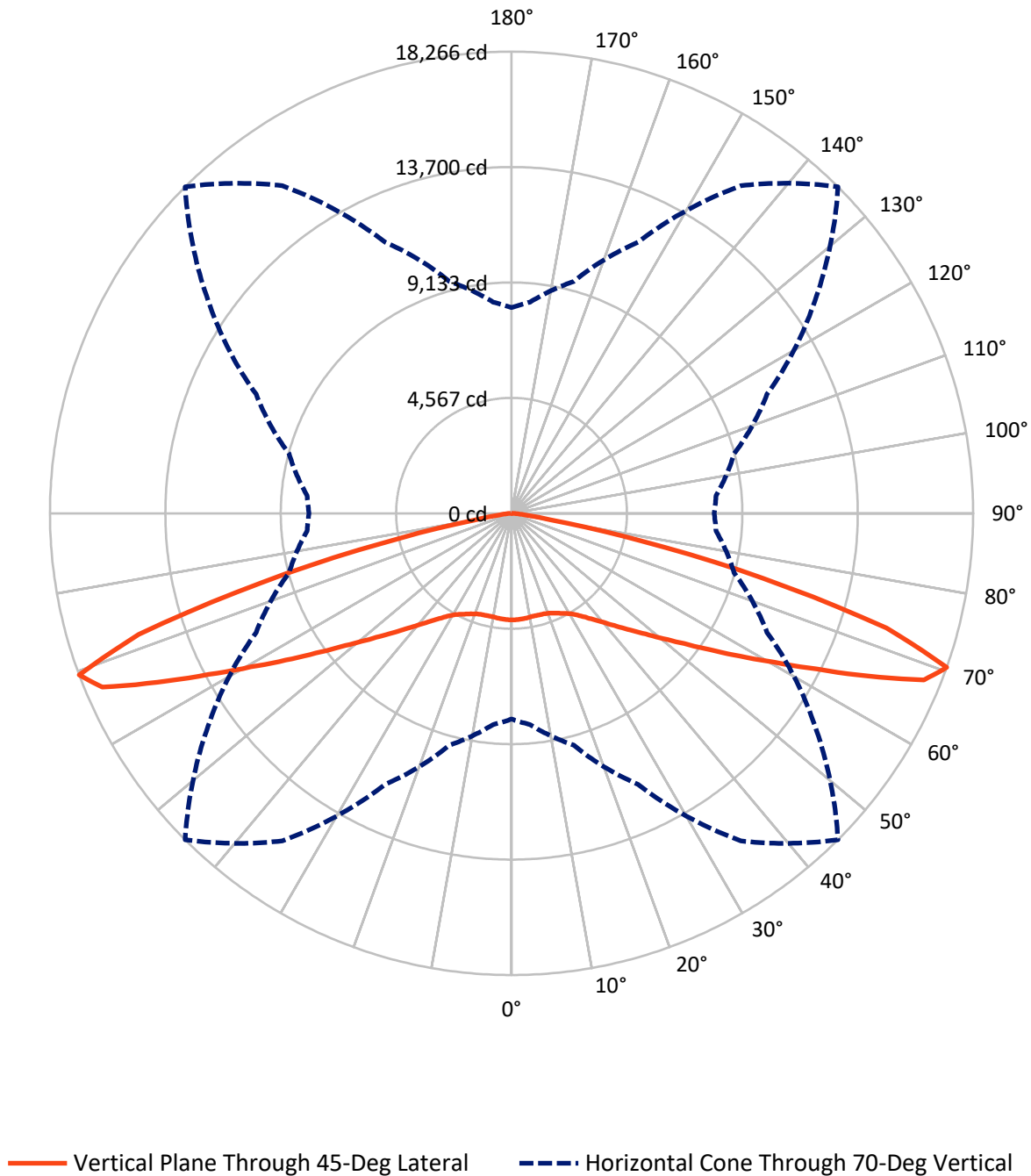


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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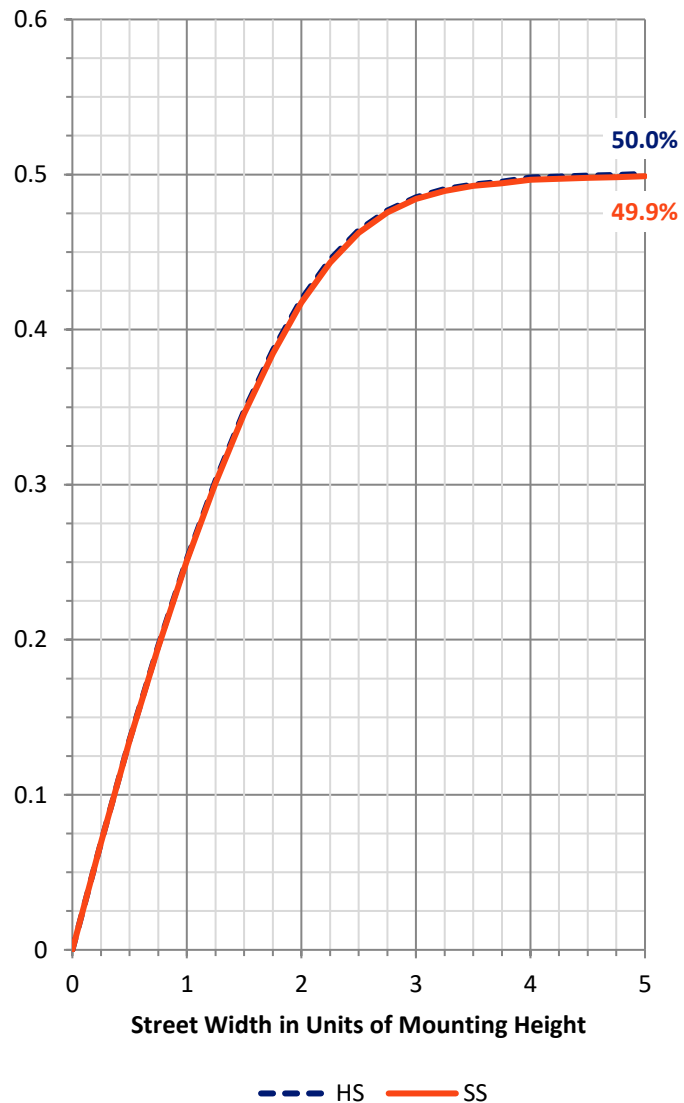
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19317.0	0.0	19317.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19317.0	0.0	19317.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	38634.0	0.0	38634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.6	1.0
10°-20°	1173.2	3.0
20°-30°	1997.2	5.2
30°-40°	3167.5	8.2
40°-50°	5154.4	13.3
50°-60°	8498.8	22.0
60°-70°	12476.4	32.3
70°-80°	5517.1	14.3
80°-90°	249.8	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°	38634.0	100.0
0°-180°	38634.0	100.0

Coefficient of Utilization



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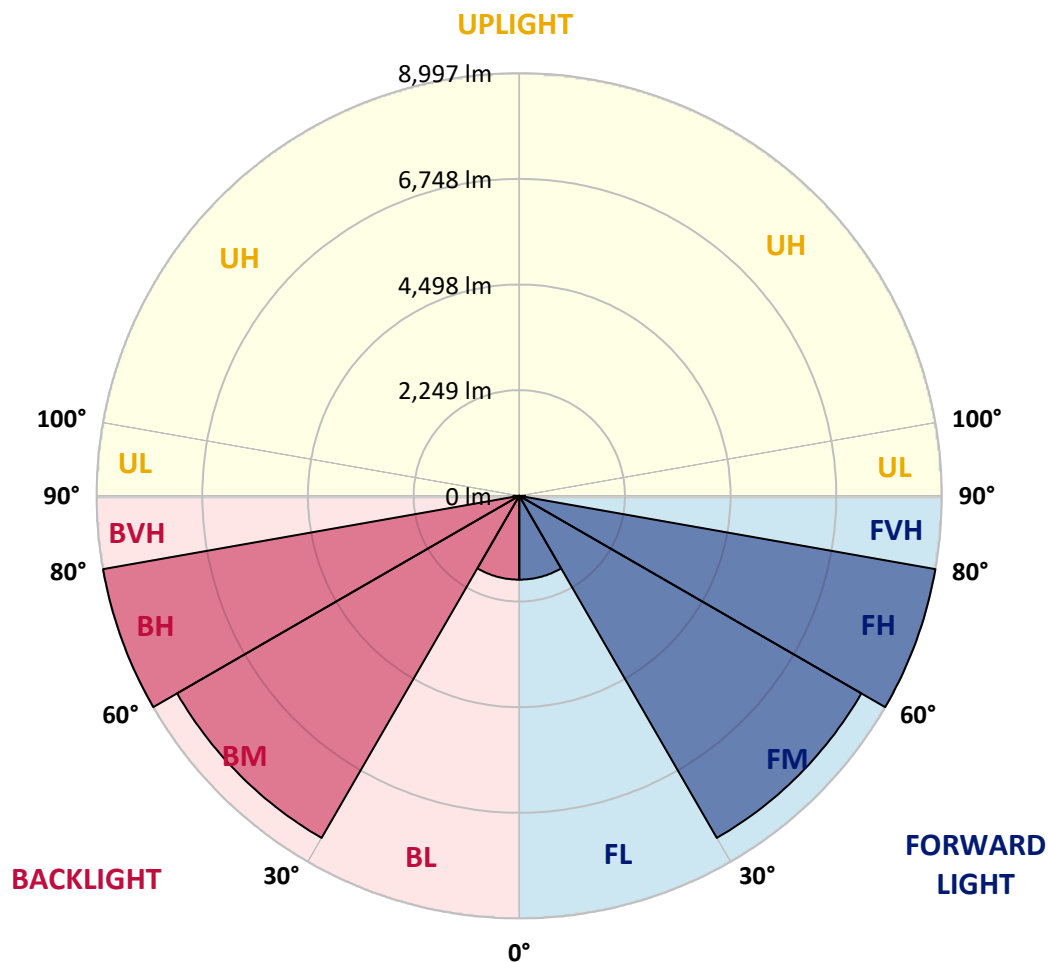
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1785.0	4.6			
FM	(30°-60°)	8410.3	21.8			
FH	(60°-80°)	8996.7	23.3			G4/12000
FVH	(80°-90°)	124.9	0.3			G2/225
BL	(0°-30°)	1785.0	4.6	B3/2500		
BM	(30°-60°)	8410.3	21.8	B4/8500		
BH	(60°-80°)	8996.7	23.3	B5		G4/12000
BVH	(80°-90°)	124.9	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°	4219.4	4219.4	4219.4	4219.4	4219.4	4219.4	4219.4	4219.4	4219.4	4219.4	4219.4
2.5°	4213.0	4209.2	4218.2	4216.9	4209.2	4210.5	4210.5	4214.3	4214.3	4211.8	4211.8
5°	4197.7	4195.1	4205.4	4205.4	4197.7	4200.3	4202.8	4206.6	4205.4	4202.8	4201.5
7.5°	4178.5	4177.2	4187.5	4187.5	4182.4	4184.9	4182.4	4183.6	4181.1	4178.5	4174.7
10°	4146.6	4149.1	4158.1	4160.6	4160.6	4161.9	4159.3	4152.9	4149.1	4145.3	4141.4
12.5°	4117.1	4115.9	4128.7	4135.0	4145.3	4156.8	4149.1	4131.2	4123.5	4115.9	4113.3
15°	4098.0	4099.2	4112.0	4123.5	4141.4	4165.7	4156.8	4128.7	4113.3	4104.4	4101.8
17.5°	4094.1	4096.7	4113.3	4133.8	4152.9	4179.8	4174.7	4146.6	4121.0	4104.4	4100.5
20°	4103.1	4104.4	4129.9	4159.3	4192.6	4218.2	4206.6	4176.0	4141.4	4115.9	4109.5
22.5°	4119.7	4124.8	4156.8	4202.8	4254.0	4288.5	4274.4	4222.0	4168.3	4136.3	4127.4
25°	4172.1	4173.4	4216.9	4279.5	4340.9	4380.5	4363.9	4289.8	4220.7	4184.9	4173.4
27.5°	4280.8	4284.6	4328.1	4401.0	4453.4	4479.0	4468.8	4408.7	4349.9	4311.5	4315.3
30°	4438.1	4443.2	4491.8	4572.3	4604.3	4610.7	4608.1	4580.0	4526.3	4475.2	4479.0
32.5°	4629.9	4632.4	4697.6	4770.5	4796.1	4801.2	4796.1	4770.5	4706.6	4637.5	4641.4
35°	4876.6	4884.3	4947.0	5017.3	5037.7	5048.0	5039.0	5005.8	4939.3	4871.5	4869.0
37.5°	5181.0	5182.2	5247.4	5320.3	5345.9	5348.5	5338.2	5316.5	5233.4	5172.0	5168.2
40°	5533.9	5539.0	5615.7	5693.7	5703.9	5692.4	5706.5	5693.7	5608.0	5537.7	5549.2
42.5°	5963.5	5975.0	6067.0	6143.8	6114.3	6108.0	6116.9	6120.7	6051.7	5966.0	5958.4
45°	6463.4	6473.6	6588.7	6650.1	6630.9	6588.7	6606.6	6637.3	6541.4	6435.3	6445.5
47.5°	7033.7	7059.2	7182.0	7239.5	7192.2	7134.7	7169.2	7215.2	7102.7	6971.0	6964.6
50°	7667.9	7699.8	7863.5	7944.0	7896.7	7790.6	7848.1	7878.8	7716.4	7546.4	7532.3
52.5°	8344.3	8376.2	8582.1	8748.3	8717.6	8552.7	8633.2	8601.3	8414.6	8185.7	8167.8
55°	9110.1	9122.9	9345.4	9613.9	9644.6	9523.1	9518.0	9465.6	9189.4	8924.7	8912.0
57.5°	9897.8	9906.7	10194.4	10511.5	10656.0	10656.0	10512.8	10401.5	10034.6	9727.7	9695.7
60°	10748.0	10780.0	11098.4	11529.3	11866.8	11966.6	11713.4	11410.4	11011.4	10636.8	10599.7
62.5°	11505.0	11542.1	12029.2	12671.1	13213.2	13576.3	12957.5	12464.0	11737.7	11136.7	11066.4
65°	11600.9	11700.6	12410.3	13572.5	14785.9	15510.9	14324.3	13108.4	11785.0	10950.1	10878.5
67.5°	10594.6	10763.4	11722.4	13531.6	16039.0	17595.0	15197.6	12740.1	10936.0	10012.8	9933.6
70°	8141.0	8386.4	9492.4	11836.2	15822.9	18266.3	14650.4	11153.4	9117.8	8124.3	8013.1
72.5°	4466.2	4567.2	5562.0	8105.1	12685.2	15522.4	12219.7	8247.1	6046.6	4920.1	4733.4
75°	1416.7	1452.5	1958.8	3316.7	7175.6	10281.4	7762.5	4048.1	2228.6	1643.0	1623.8
77.5°	629.1	632.9	708.4	967.9	2471.6	5209.1	2968.9	1102.2	759.5	663.6	685.3
80°	397.6	397.6	438.6	479.5	672.6	1512.6	803.0	524.2	447.5	415.6	424.5
82.5°	190.5	211.0	285.1	306.9	369.5	508.9	411.7	342.7	299.2	222.5	207.1
85°	125.3	104.8	180.3	203.3	214.8	244.2	239.1	226.3	195.6	111.2	124.0
87.5°	56.3	53.7	93.3	85.7	80.6	61.4	92.1	113.8	110.0	55.0	55.0
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)