

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: P316649

Luminaire Tested: **GAN-SA5C-830-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316649
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-SA5C-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 29511 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

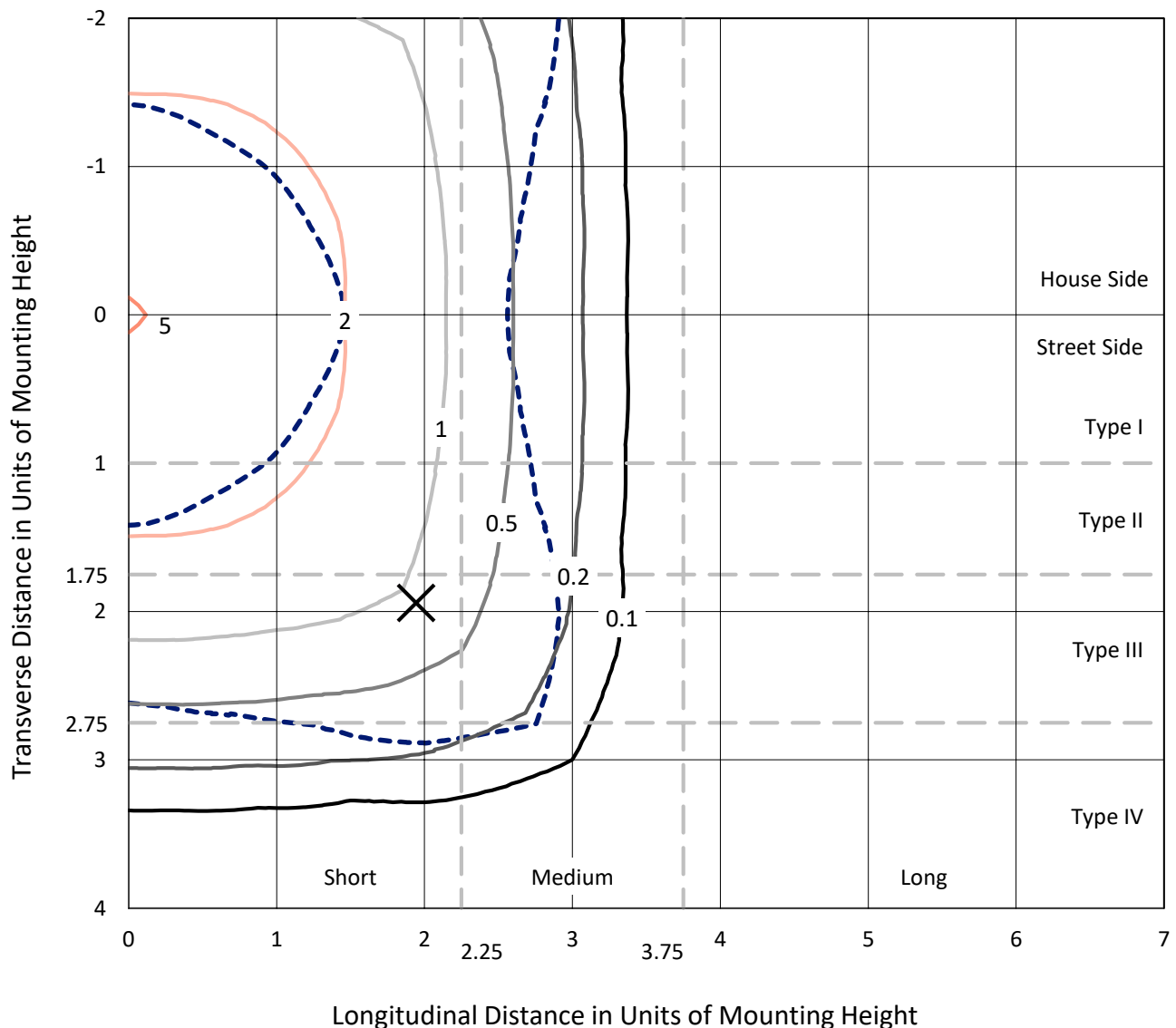
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

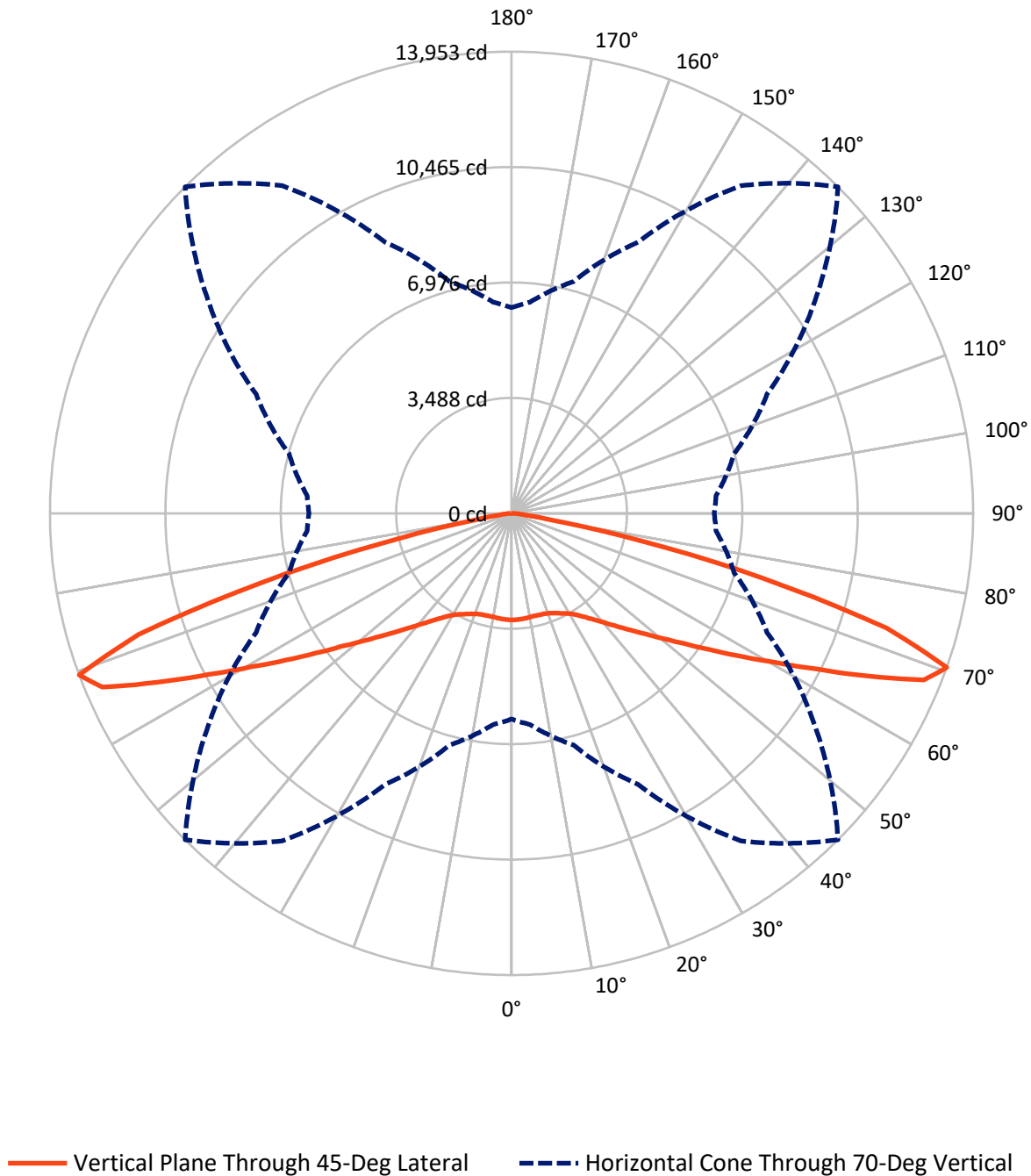
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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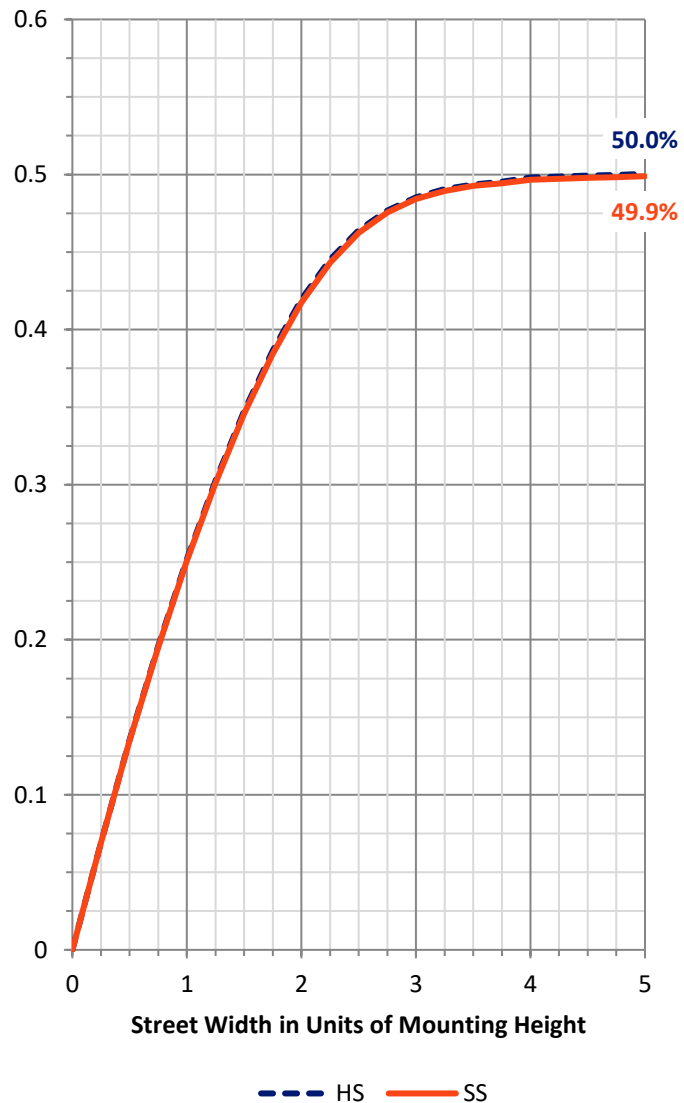
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14755.5	0.0	14755.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14755.5	0.0	14755.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29511.0	0.0	29511.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.3	1.0
10°-20°	896.2	3.0
20°-30°	1525.6	5.2
30°-40°	2419.5	8.2
40°-50°	3937.3	13.3
50°-60°	6491.9	22.0
60°-70°	9530.3	32.3
70°-80°	4214.3	14.3
80°-90°	190.8	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°	29511.0	100.0
0°-180°	29511.0	100.0

Coefficient of Utilization



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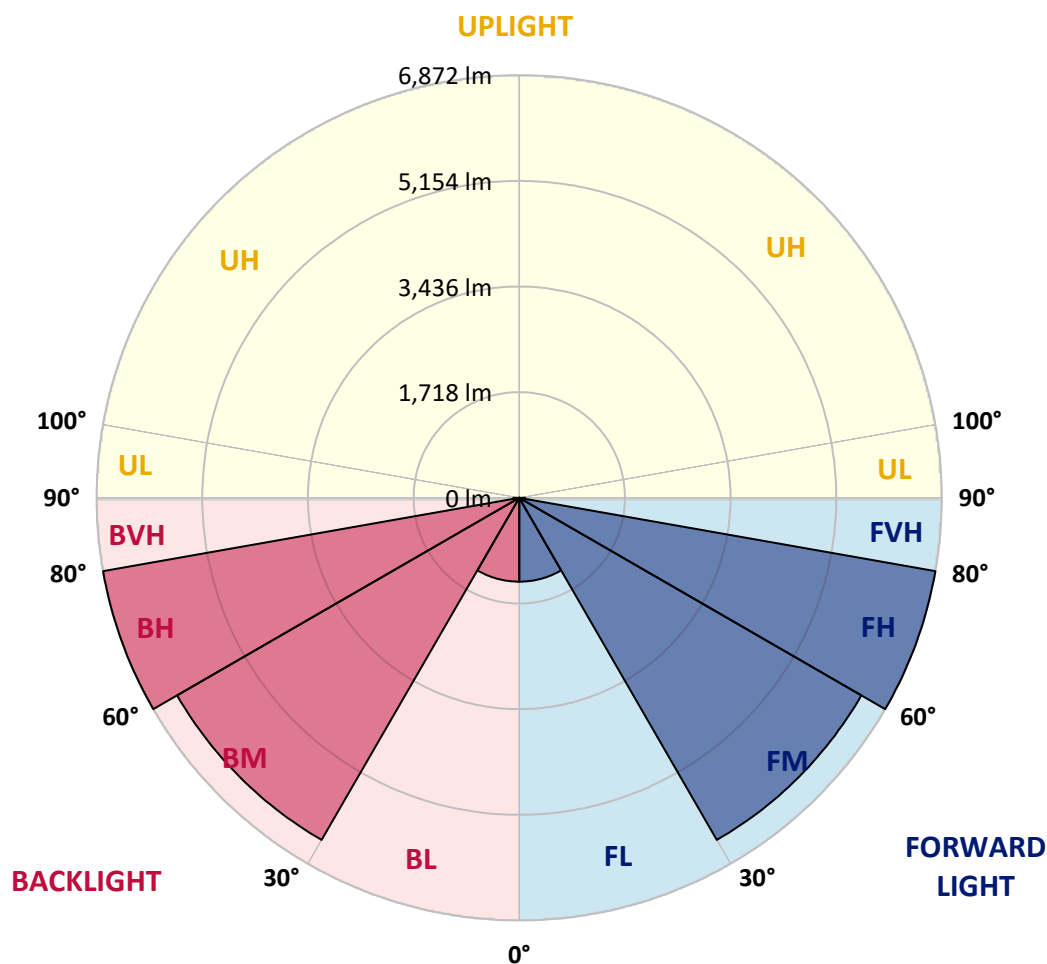
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1363.5	4.6			
FM	(30°-60°)	6424.3	21.8			
FH	(60°-80°)	6872.3	23.3			G3/7500
FVH	(80°-90°)	95.4	0.3			G1/100
BL	(0°-30°)	1363.5	4.6	B3/2500		
BM	(30°-60°)	6424.3	21.8	B4/8500		
BH	(60°-80°)	6872.3	23.3	B5		G3/7500
BVH	(80°-90°)	95.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1
2.5°	3218.2	3215.2	3222.1	3221.1	3215.2	3216.2	3216.2	3219.2	3219.2	3217.2	3217.2
5°	3206.5	3204.5	3212.3	3212.3	3206.5	3208.4	3210.4	3213.3	3212.3	3210.4	3209.4
7.5°	3191.8	3190.8	3198.6	3198.6	3194.7	3196.7	3194.7	3195.7	3193.8	3191.8	3188.9
10°	3167.4	3169.3	3176.2	3178.1	3178.1	3179.1	3177.2	3172.3	3169.3	3166.4	3163.5
12.5°	3144.9	3143.9	3153.7	3158.6	3166.4	3175.2	3169.3	3155.7	3149.8	3143.9	3142.0
15°	3130.3	3131.3	3141.0	3149.8	3163.5	3182.0	3175.2	3153.7	3142.0	3135.2	3133.2
17.5°	3127.3	3129.3	3142.0	3157.6	3172.3	3192.8	3188.9	3167.4	3147.9	3135.2	3132.2
20°	3134.2	3135.2	3154.7	3177.2	3202.6	3222.1	3213.3	3189.9	3163.5	3143.9	3139.1
22.5°	3146.9	3150.8	3175.2	3210.4	3249.4	3275.8	3265.1	3225.0	3184.0	3159.6	3152.7
25°	3186.9	3187.9	3221.1	3269.0	3315.8	3346.1	3333.4	3276.8	3224.0	3196.7	3187.9
27.5°	3269.9	3272.9	3306.1	3361.7	3401.8	3421.3	3413.5	3367.6	3322.7	3293.4	3296.3
30°	3390.1	3394.0	3431.1	3492.6	3517.0	3521.9	3520.0	3498.5	3457.5	3418.4	3421.3
32.5°	3536.6	3538.5	3588.3	3644.0	3663.5	3667.5	3663.5	3644.0	3595.2	3542.4	3545.4
35°	3725.1	3730.9	3778.8	3832.5	3848.1	3856.0	3849.1	3823.7	3772.9	3721.2	3719.2
37.5°	3957.5	3958.5	4008.3	4064.0	4083.5	4085.5	4077.7	4061.1	3997.6	3950.7	3947.8
40°	4227.1	4231.0	4289.6	4349.2	4357.0	4348.2	4358.9	4349.2	4283.7	4230.0	4238.8
42.5°	4555.3	4564.0	4634.4	4693.0	4670.5	4665.6	4672.5	4675.4	4622.7	4557.2	4551.4
45°	4937.1	4945.0	5032.9	5079.7	5065.1	5032.9	5046.5	5070.0	4996.7	4915.7	4923.5
47.5°	5372.7	5392.3	5486.0	5530.0	5493.9	5449.9	5476.3	5511.4	5425.5	5324.9	5320.0
50°	5857.2	5881.6	6006.6	6068.1	6032.0	5950.9	5994.9	6018.3	5894.3	5764.4	5753.7
52.5°	6373.8	6398.3	6555.5	6682.5	6659.0	6533.0	6594.6	6570.2	6427.6	6252.7	6239.1
55°	6958.9	6968.6	7138.6	7343.7	7367.1	7274.3	7270.4	7230.4	7019.4	6817.3	6807.5
57.5°	7560.5	7567.4	7787.1	8029.3	8139.7	8139.7	8030.3	7945.3	7665.0	7430.6	7406.2
60°	8210.0	8234.4	8477.6	8806.8	9064.6	9140.8	8947.4	8715.9	8411.2	8125.0	8096.7
62.5°	8788.2	8816.5	9188.7	9678.9	10093.1	10370.4	9897.7	9520.7	8966.0	8506.9	8453.2
65°	8861.5	8937.6	9479.7	10367.5	11294.4	11848.2	10941.8	10013.0	9002.1	8364.3	8309.6
67.5°	8092.8	8221.7	8954.2	10336.3	12251.5	13440.2	11608.9	9731.7	8353.6	7648.4	7587.9
70°	6218.6	6406.1	7250.9	9041.2	12086.5	13952.9	11190.9	8519.6	6964.7	6205.9	6120.9
72.5°	3411.6	3488.7	4248.6	6191.2	9689.7	11857.0	9334.2	6299.6	4618.7	3758.3	3615.7
75°	1082.2	1109.5	1496.3	2533.5	5481.2	7853.5	5929.5	3092.2	1702.4	1255.0	1240.4
77.5°	480.5	483.5	541.1	739.4	1887.9	3979.0	2267.9	841.9	580.2	506.9	523.5
80°	303.7	303.7	335.0	366.3	513.7	1155.4	613.4	400.4	341.8	317.4	324.3
82.5°	145.5	161.2	217.8	234.4	282.3	388.7	314.5	261.8	228.5	169.9	158.2
85°	95.7	80.1	137.7	155.3	164.1	186.5	182.6	172.9	149.4	85.0	94.7
87.5°	43.0	41.0	71.3	65.4	61.5	46.9	70.3	86.9	84.0	42.0	42.0
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)