

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: P316414

Luminaire Tested: **GAN-SA0C-727-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316414
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-SA0C-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 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: 61505 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

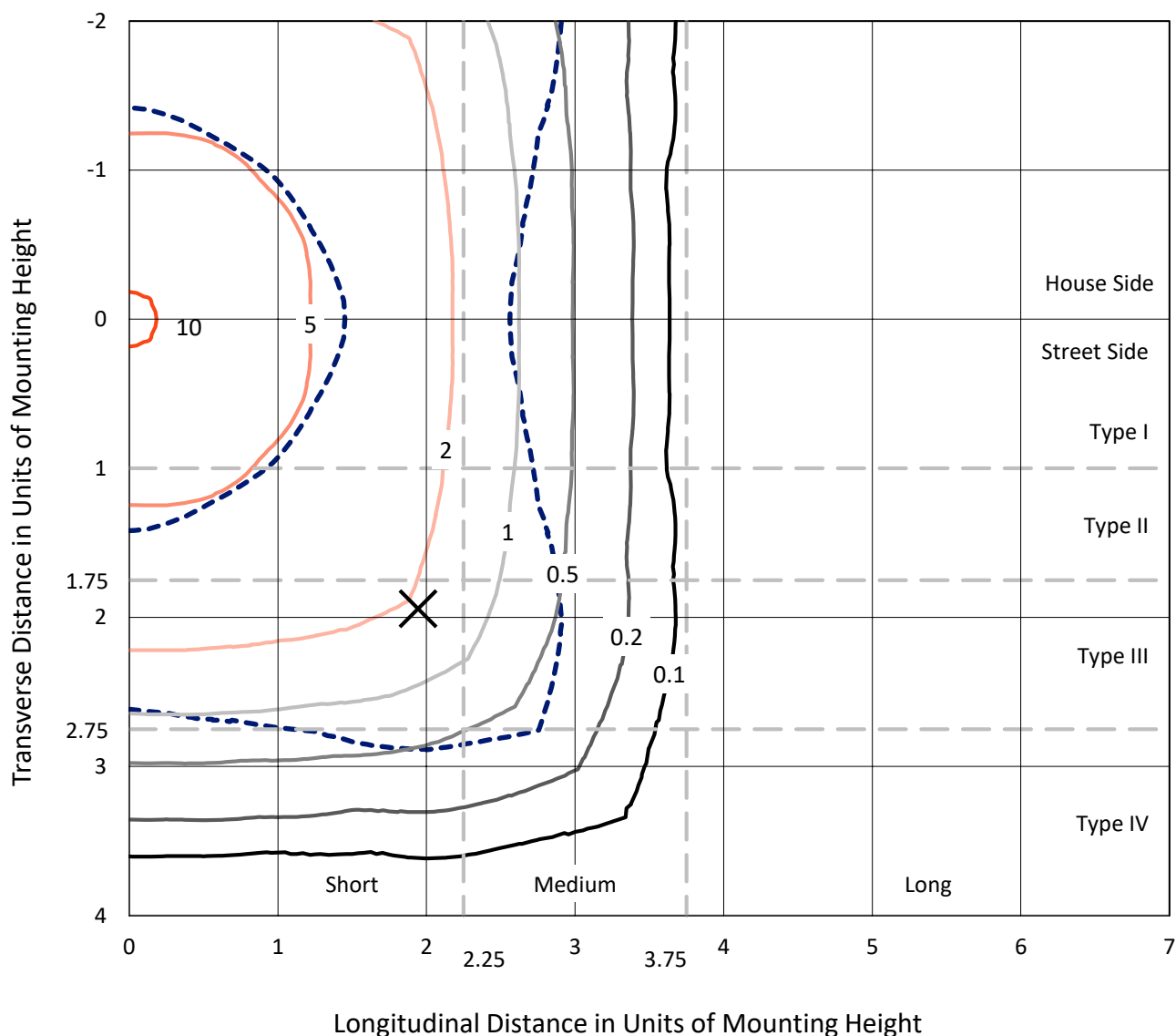
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

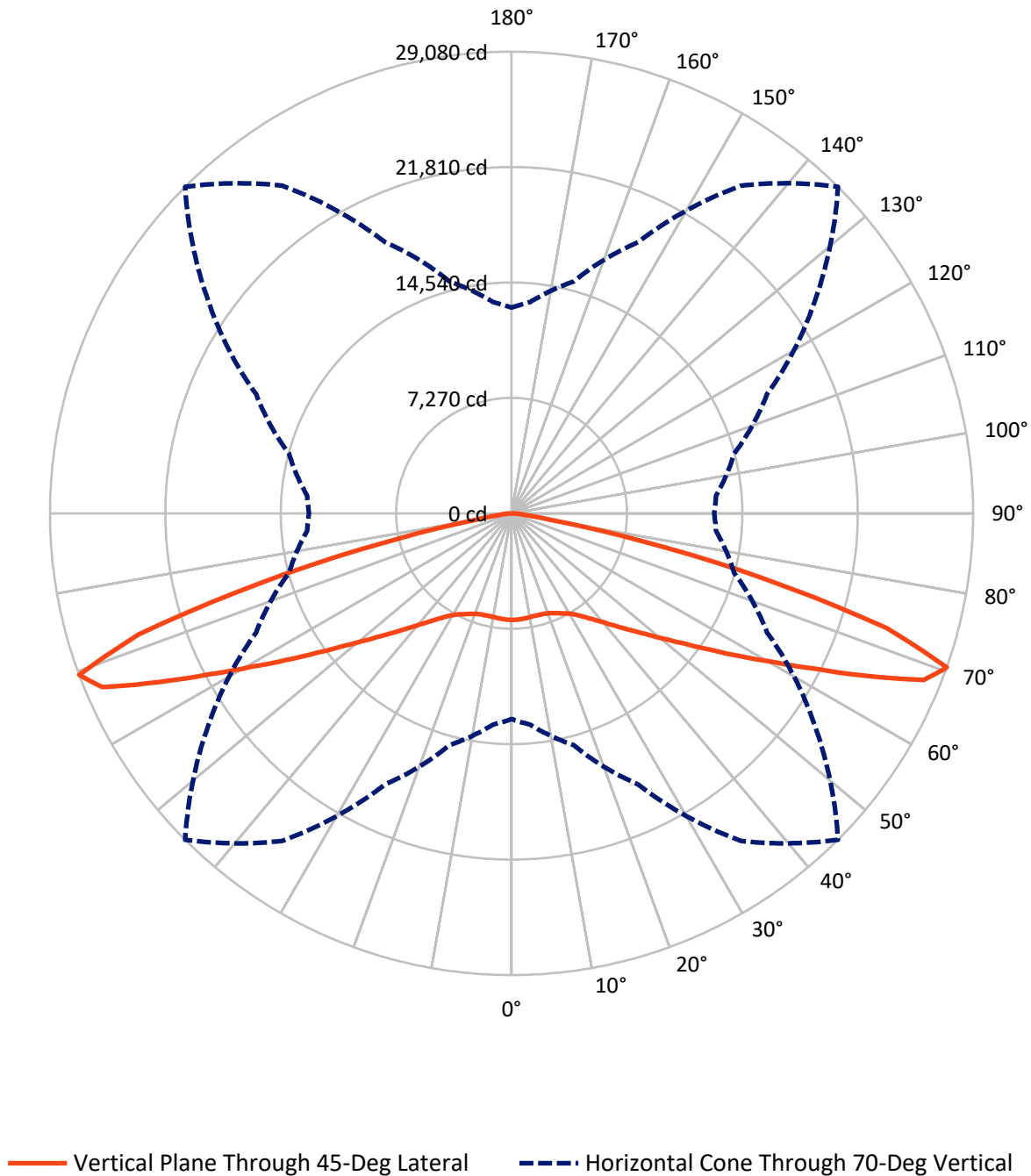
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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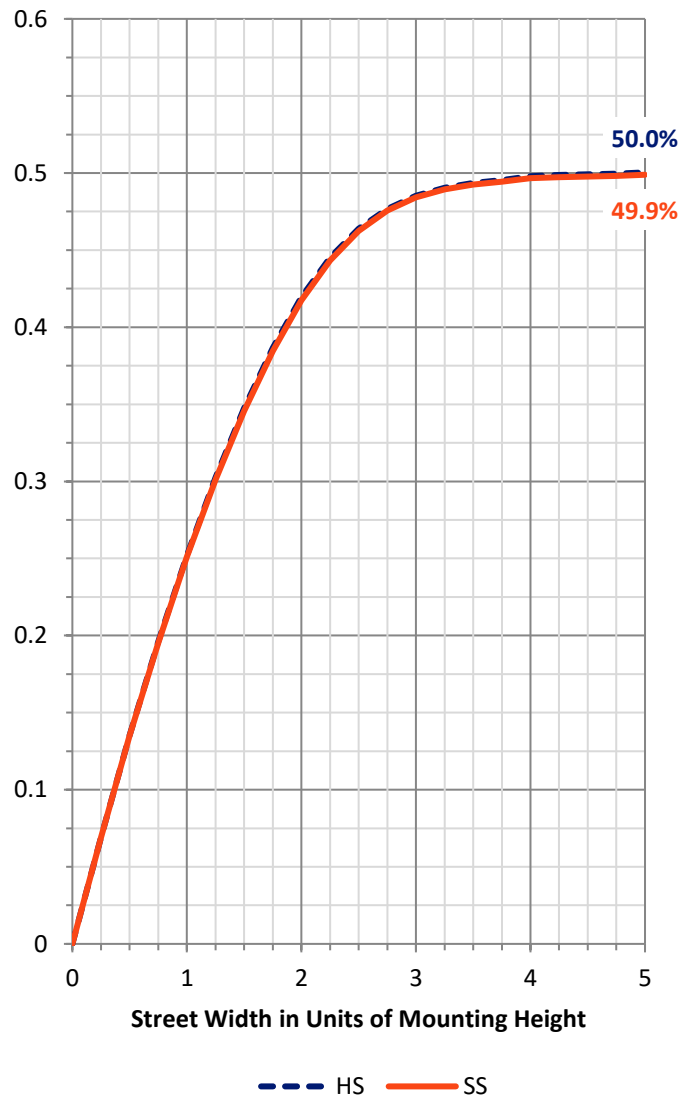
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30752.5	0.0	30752.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30752.5	0.0	30752.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	61505.0	0.0	61505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.2	1.0
10°-20°	1867.7	3.0
20°-30°	3179.5	5.2
30°-40°	5042.6	8.2
40°-50°	8205.8	13.3
50°-60°	13530.0	22.0
60°-70°	19862.4	32.3
70°-80°	8783.1	14.3
80°-90°	397.7	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°	61505.0	100.0
0°-180°	61505.0	100.0

Coefficient of Utilization



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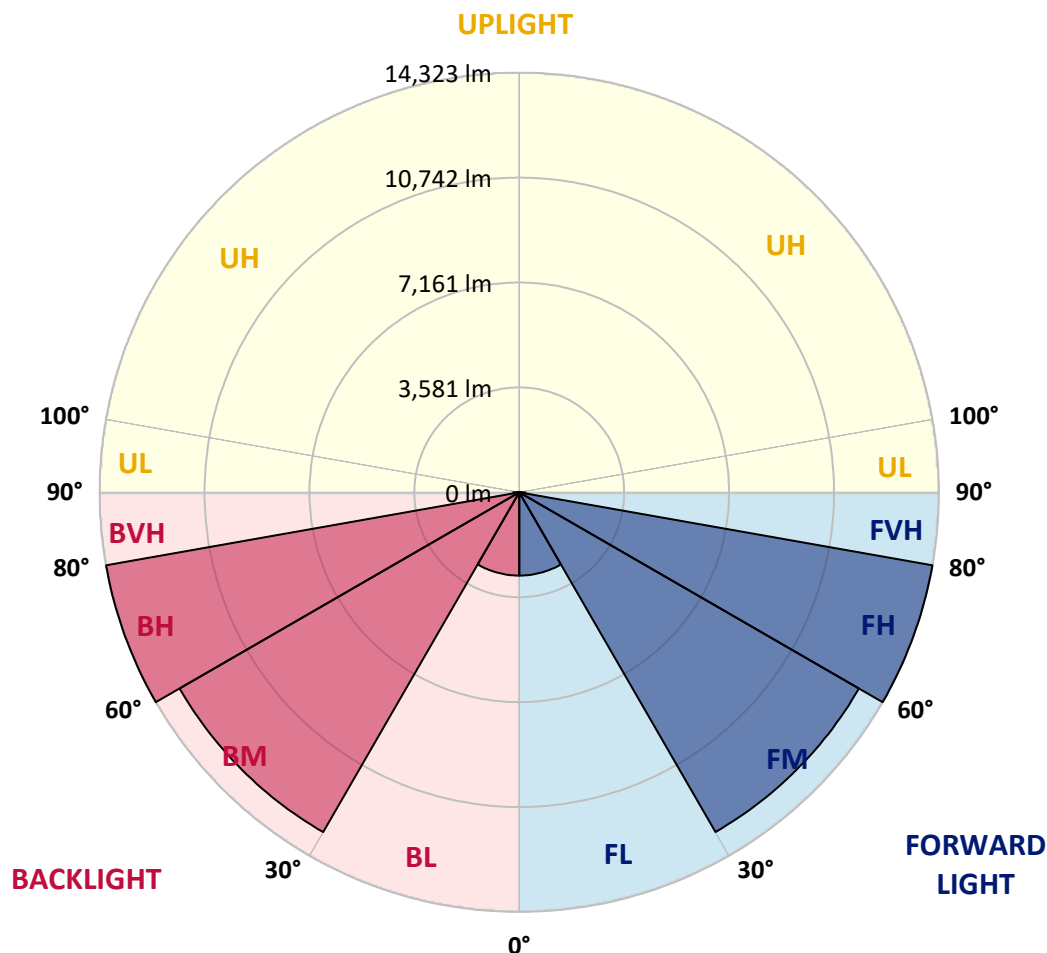
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2841.7	4.6			
FM	(30°-60°)	13389.2	21.8			
FH	(60°-80°)	14322.7	23.3			G5
FVH	(80°-90°)	198.9	0.3			G2/225
BL	(0°-30°)	2841.7	4.6	B4/5000		
BM	(30°-60°)	13389.2	21.8	B5		
BH	(60°-80°)	14322.7	23.3	B5		G5
BVH	(80°-90°)	198.9	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6717.3	6717.3	6717.3	6717.3	6717.3	6717.3	6717.3	6717.3	6717.3	6717.3	6717.3
2.5°	6707.1	6701.0	6715.3	6713.2	6701.0	6703.1	6703.1	6709.2	6709.2	6705.1	6705.1
5°	6682.7	6678.6	6694.9	6694.9	6682.7	6686.8	6690.8	6696.9	6694.9	6690.8	6688.8
7.5°	6652.2	6650.1	6666.4	6666.4	6658.3	6662.3	6658.3	6660.3	6656.2	6652.2	6646.1
10°	6601.3	6605.3	6619.6	6623.7	6623.7	6625.7	6621.6	6611.5	6605.3	6599.2	6593.1
12.5°	6554.5	6552.4	6572.8	6583.0	6599.2	6617.6	6605.3	6576.9	6564.6	6552.4	6548.4
15°	6523.9	6526.0	6546.3	6564.6	6593.1	6631.8	6617.6	6572.8	6548.4	6534.1	6530.0
17.5°	6517.8	6521.9	6548.4	6580.9	6611.5	6654.2	6646.1	6601.3	6560.6	6534.1	6528.0
20°	6532.1	6534.1	6574.8	6621.6	6674.6	6715.3	6696.9	6648.1	6593.1	6552.4	6542.2
22.5°	6558.5	6566.7	6617.6	6690.8	6772.3	6827.2	6804.8	6721.4	6635.9	6585.0	6570.7
25°	6642.0	6644.0	6713.2	6813.0	6910.7	6973.8	6947.3	6829.3	6719.3	6662.3	6644.0
27.5°	6815.0	6821.1	6890.3	7006.4	7089.8	7130.5	7114.2	7018.6	6924.9	6863.9	6870.0
30°	7065.4	7073.5	7150.9	7279.1	7330.0	7340.2	7336.1	7291.3	7205.8	7124.4	7130.5
32.5°	7370.7	7374.8	7478.6	7594.6	7635.3	7643.5	7635.3	7594.6	7492.8	7382.9	7389.0
35°	7763.6	7775.8	7875.5	7987.5	8020.1	8036.3	8022.1	7969.2	7863.3	7755.4	7751.4
37.5°	8248.0	8250.1	8353.9	8469.9	8510.6	8514.7	8498.4	8463.8	8331.5	8233.8	8227.7
40°	8809.8	8818.0	8940.1	9064.3	9080.6	9062.3	9084.6	9064.3	8927.9	8816.0	8834.3
42.5°	9493.8	9512.1	9658.7	9780.8	9734.0	9723.8	9738.1	9744.2	9634.2	9497.9	9485.6
45°	10289.7	10306.0	10489.2	10586.9	10556.3	10489.2	10517.7	10566.5	10413.9	10244.9	10261.2
47.5°	11197.5	11238.3	11433.7	11525.3	11449.9	11358.3	11413.3	11486.6	11307.5	11097.8	11087.6
50°	12207.2	12258.1	12518.6	12646.8	12571.5	12402.6	12494.2	12543.0	12284.5	12013.8	11991.4
52.5°	13284.0	13334.9	13662.6	13927.2	13878.4	13615.8	13744.0	13693.1	13395.9	13031.6	13003.1
55°	14503.3	14523.6	14877.8	15305.3	15354.1	15160.7	15152.6	15069.2	14629.5	14208.1	14187.8
57.5°	15757.2	15771.4	16229.4	16734.2	16964.2	16964.2	16736.3	16559.2	15975.0	15486.4	15435.5
60°	17110.8	17161.7	17668.5	18354.5	18891.9	19050.7	18647.6	18165.2	17530.1	16933.7	16874.7
62.5°	18315.8	18374.9	19150.4	20172.3	21035.3	21613.4	20628.2	19842.5	18686.3	17729.6	17617.7
65°	18468.5	18627.3	19757.0	21607.3	23539.1	24693.2	22804.2	20868.4	18761.6	17432.4	17318.4
67.5°	16866.5	17135.2	18661.9	21542.2	25533.9	28011.2	24194.5	20282.2	17410.0	15940.4	15814.2
70°	12960.3	13351.1	15111.9	18843.1	25189.9	29079.8	23323.3	17756.1	14515.5	12933.9	12756.8
72.5°	7110.2	7271.0	8854.6	12903.3	20194.7	24711.5	19453.7	13129.3	9626.1	7832.8	7535.6
75°	2255.4	2312.4	3118.5	5280.2	11423.5	16367.8	12357.8	6444.5	3548.0	2615.7	2585.1
77.5°	1001.5	1007.6	1127.7	1540.9	3934.7	8292.8	4726.5	1754.6	1209.1	1056.4	1091.1
80°	633.1	633.1	698.2	763.3	1070.7	2408.1	1278.3	834.6	712.4	661.6	675.8
82.5°	303.3	335.9	453.9	488.5	588.3	810.1	655.4	545.5	476.3	354.2	329.8
85°	199.5	166.9	287.0	323.7	342.0	388.8	380.6	360.3	311.4	177.1	197.4
87.5°	89.6	85.5	148.6	136.4	128.2	97.7	146.6	181.2	175.1	87.5	87.5
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)