

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: P316103

Luminaire Tested: **GAN-SA9D-727-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61101 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

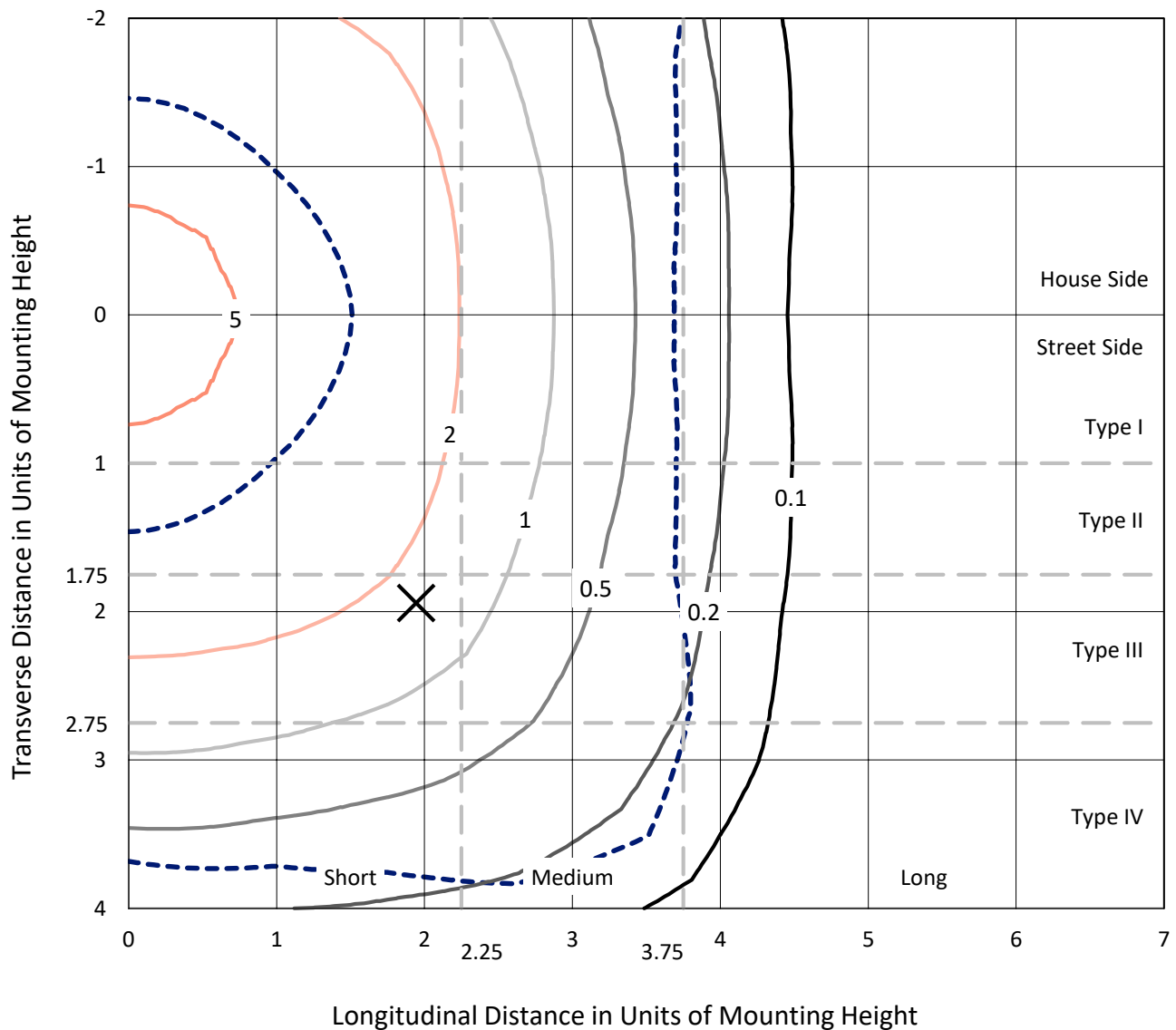
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

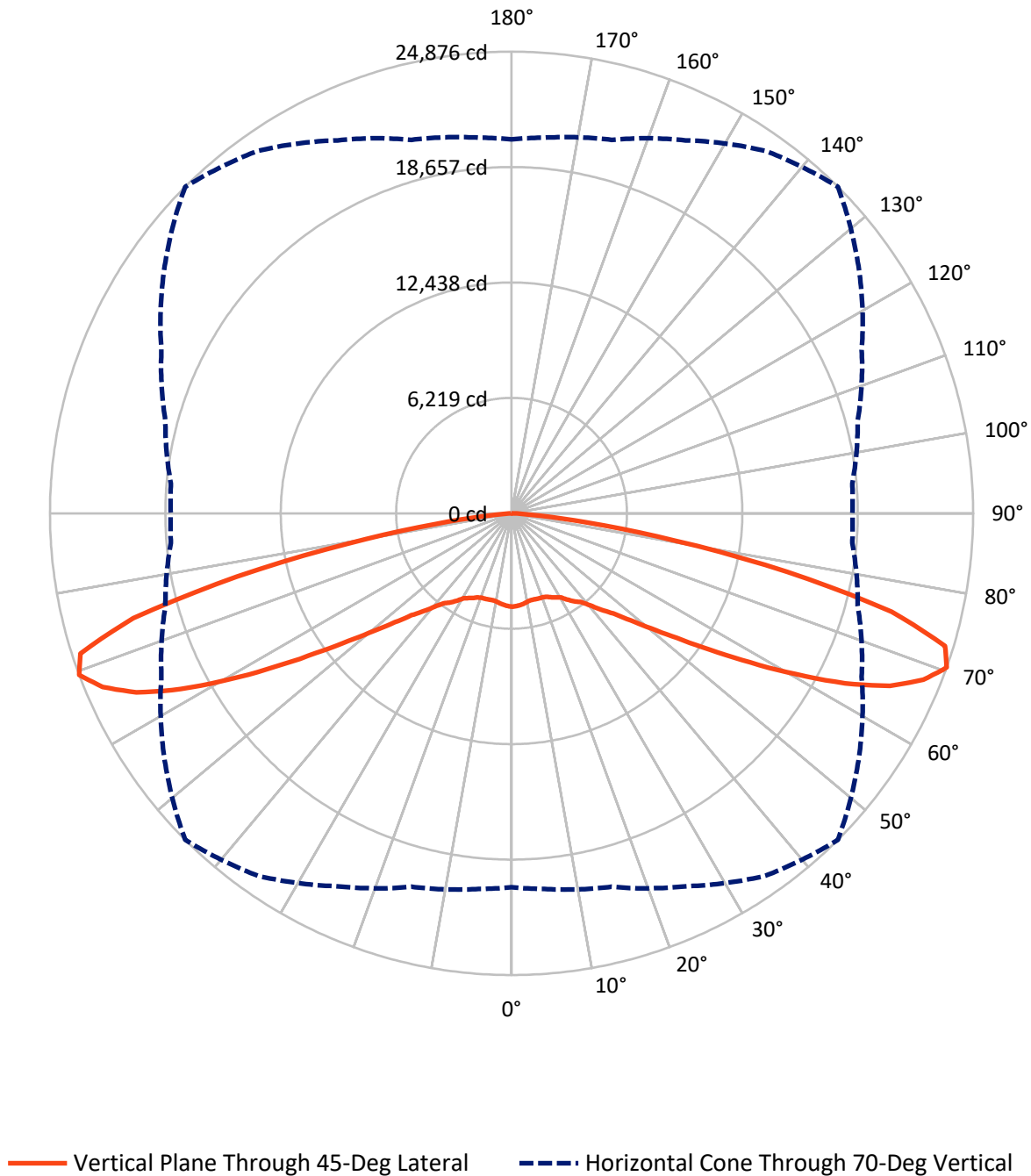
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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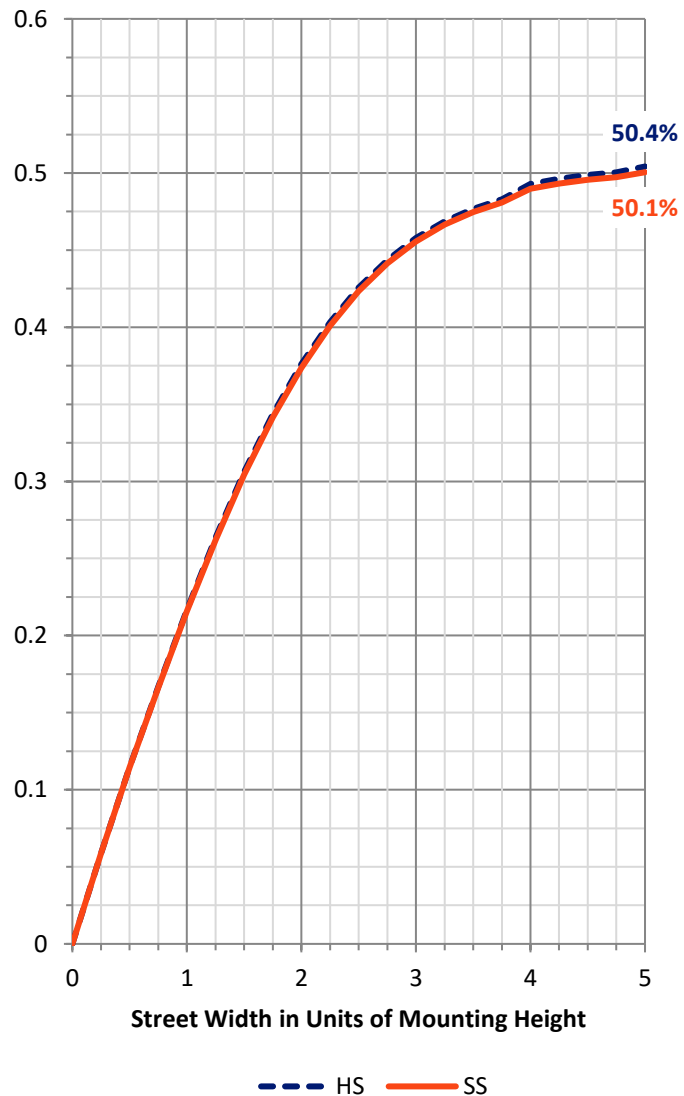
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30550.5	0.0	30550.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30550.5	0.0	30550.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	61101.0	0.0	61101.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.3	0.8
10°-20°	1370.9	2.2
20°-30°	2337.4	3.8
30°-40°	3652.3	6.0
40°-50°	6189.8	10.1
50°-60°	11287.6	18.5
60°-70°	19432.4	31.8
70°-80°	15231.8	24.9
80°-90°	1129.4	1.8
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°	61101.0	100.0
0°-180°	61101.0	100.0

Coefficient of Utilization



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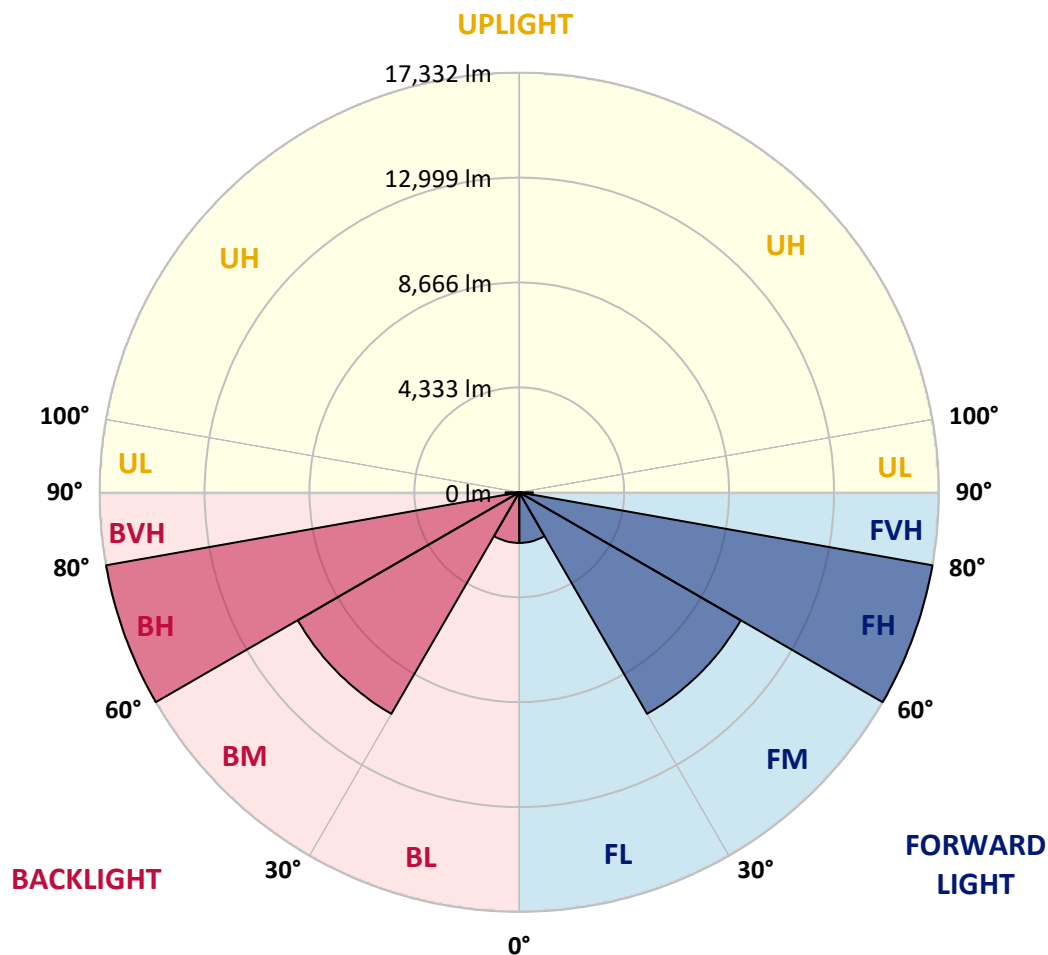
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2088.9	3.4			
FM	(30°-60°)	10564.9	17.3			
FH	(60°-80°)	17332.1	28.4			G5
FVH	(80°-90°)	564.7	0.9			G4/750
BL	(0°-30°)	2088.9	3.4	B3/2500		
BM	(30°-60°)	10564.9	17.3	B5		
BH	(60°-80°)	17332.1	28.4	B5		G5
BVH	(80°-90°)	564.7	0.9			G4/750
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°	5028.6	5028.6	5028.6	5028.6	5028.6	5028.6	5028.6	5028.6	5028.6	5028.6	5028.6
2.5°	5006.4	5012.5	5006.4	5010.4	5000.3	5004.4	5004.4	5004.4	5002.3	5004.4	5000.3
5°	4961.9	4966.0	4957.9	4961.9	4955.9	4961.9	4963.9	4961.9	4957.9	4959.9	4951.8
7.5°	4895.2	4899.3	4893.2	4899.3	4891.2	4901.3	4899.3	4893.2	4887.1	4887.1	4879.1
10°	4858.8	4860.9	4844.7	4838.6	4820.4	4824.5	4830.5	4836.6	4842.7	4854.8	4852.8
12.5°	4860.9	4860.9	4836.6	4810.3	4784.1	4790.1	4800.2	4822.5	4846.7	4868.9	4871.0
15°	4881.1	4879.1	4842.7	4800.2	4782.0	4800.2	4806.3	4820.4	4858.8	4897.2	4899.3
17.5°	4895.2	4895.2	4838.6	4790.1	4788.1	4816.4	4814.4	4820.4	4862.9	4919.5	4921.5
20°	4921.5	4921.5	4848.7	4796.2	4796.2	4826.5	4828.5	4838.6	4881.1	4943.7	4953.8
22.5°	4980.1	4982.1	4905.3	4862.9	4866.9	4885.1	4891.2	4907.4	4945.8	5014.5	5026.6
25°	5063.0	5067.0	4988.2	4963.9	4978.1	5012.5	5008.4	5020.5	5063.0	5129.7	5141.8
27.5°	5178.2	5168.1	5095.3	5085.2	5099.4	5123.6	5121.6	5123.6	5158.0	5218.6	5232.8
30°	5327.8	5323.7	5271.2	5277.2	5271.2	5263.1	5265.1	5281.3	5299.5	5348.0	5362.1
32.5°	5473.3	5477.3	5445.0	5475.3	5519.8	5550.1	5503.6	5459.1	5438.9	5465.2	5477.3
35°	5736.0	5746.1	5695.6	5675.4	5736.0	5825.0	5693.6	5620.8	5661.2	5695.6	5705.7
37.5°	6182.7	6188.8	6103.9	6023.0	5978.6	6063.4	5932.1	5938.1	6079.6	6144.3	6142.3
40°	6692.0	6694.0	6637.5	6566.7	6489.9	6510.1	6457.6	6473.7	6566.7	6625.3	6641.5
42.5°	7298.4	7292.3	7203.4	7102.3	7080.1	7100.3	7011.4	6999.2	7106.4	7211.5	7213.5
45°	8084.6	8070.5	7955.2	7844.1	7737.0	7692.5	7670.3	7728.9	7876.4	7973.4	7975.5
47.5°	8931.5	8893.1	8832.4	8743.5	8650.5	8606.1	8569.7	8598.0	8705.1	8743.5	8747.5
50°	9802.6	9810.7	9822.8	9788.4	9754.1	9739.9	9644.9	9590.4	9622.7	9552.0	9541.8
52.5°	10835.4	10851.6	10968.8	11067.8	11126.4	11156.7	10976.9	10788.9	10683.8	10546.4	10505.9
55°	12054.1	12080.4	12252.2	12527.1	12810.0	12959.6	12634.2	12282.5	11957.1	11700.4	11617.6
57.5°	13412.4	13458.8	13695.3	14222.8	14802.9	15156.6	14606.8	13968.2	13339.6	12969.7	12905.0
60°	15005.0	15049.5	15376.9	16132.8	17072.7	17604.2	16771.5	15726.6	14944.4	14590.7	14471.4
62.5°	16900.9	16904.9	17307.1	18190.3	19431.3	20171.1	19043.3	17646.7	16840.2	16413.8	16298.6
65°	18940.2	18950.3	19366.7	20320.6	21604.1	22408.5	21135.2	19679.9	18693.6	18065.0	17976.1
67.5°	20381.3	20423.7	20862.3	22010.3	23210.9	23936.5	22618.7	20973.5	19833.5	19083.7	19008.9
70°	20150.9	20316.6	20832.0	22172.0	23841.5	24876.3	22859.2	20819.9	19316.1	18430.9	18368.2
72.5°	17573.9	17891.2	18578.4	20336.8	23006.7	24431.7	21547.5	18647.1	16945.3	16191.4	16078.2
75°	11967.2	12482.6	13519.5	16056.0	19655.7	21153.4	18139.8	14867.6	13266.8	12223.9	12147.1
77.5°	5335.8	5453.1	6766.8	9687.4	13563.9	15191.0	13179.9	9725.8	7300.4	5822.9	5511.7
80°	1487.6	1505.8	2009.0	3607.8	6789.0	8925.4	7288.3	3789.7	2130.3	1501.7	1414.8
82.5°	472.9	513.4	626.6	935.8	2281.9	4072.6	2342.5	1010.6	719.5	574.0	517.4
85°	230.4	228.4	317.3	380.0	582.1	901.4	620.5	468.9	410.3	272.9	246.6
87.5°	97.0	99.0	147.5	133.4	169.8	145.5	200.1	210.2	220.3	121.3	105.1
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)