

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: P316422

Luminaire Tested: **GAN-SA8D-727-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316422
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-SA8D-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54631 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

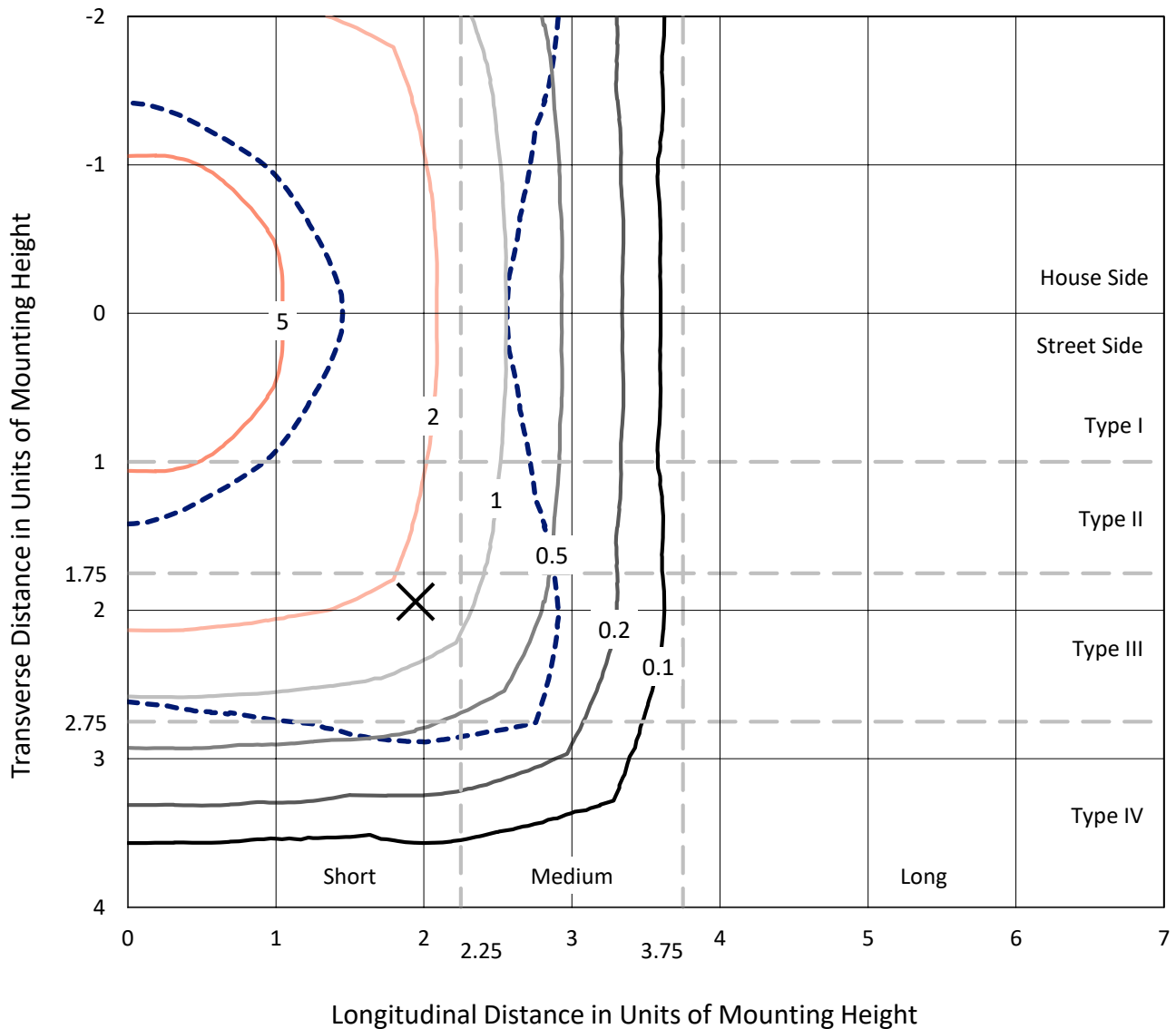
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P316422
 CATALOG NUMBER: GAN-SA8D-727-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

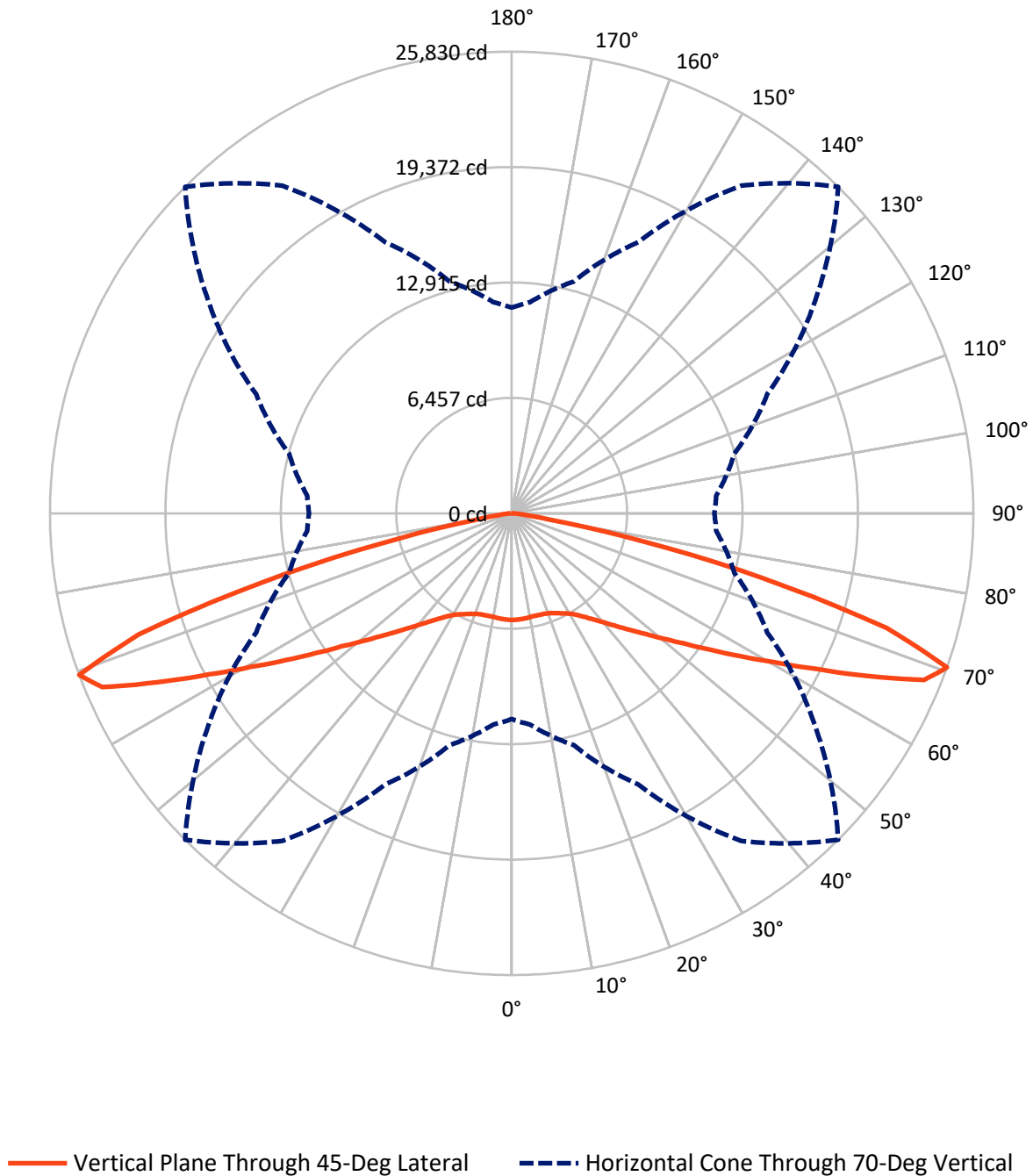
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type V - Short - N/A

REPORT NUMBER: P316422
CATALOG NUMBER: GAN-SA8D-727-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P316422

CATALOG NUMBER: GAN-SA8D-727-U-5MQ

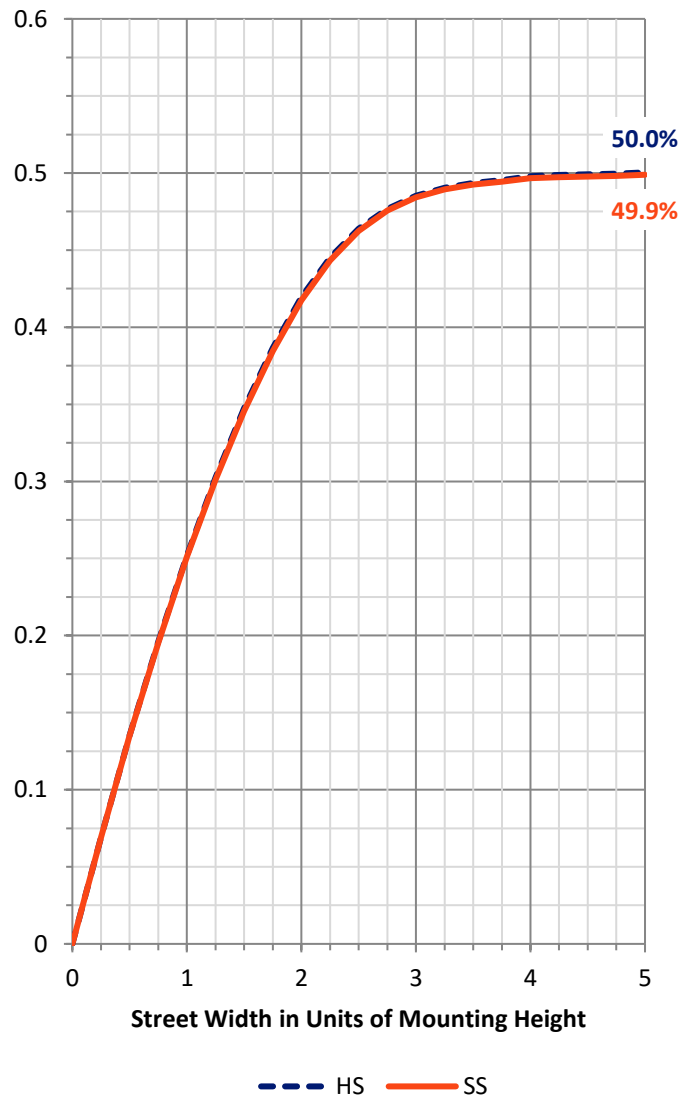
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27315.5	0.0	27315.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27315.5	0.0	27315.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	54631.0	0.0	54631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.1	1.0
10°-20°	1659.0	3.0
20°-30°	2824.1	5.2
30°-40°	4479.0	8.2
40°-50°	7288.7	13.3
50°-60°	12017.8	22.0
60°-70°	17642.5	32.3
70°-80°	7801.5	14.3
80°-90°	353.3	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°	54631.0	100.0
0°-180°	54631.0	100.0

Coefficient of Utilization



REPORT NUMBER: P316422

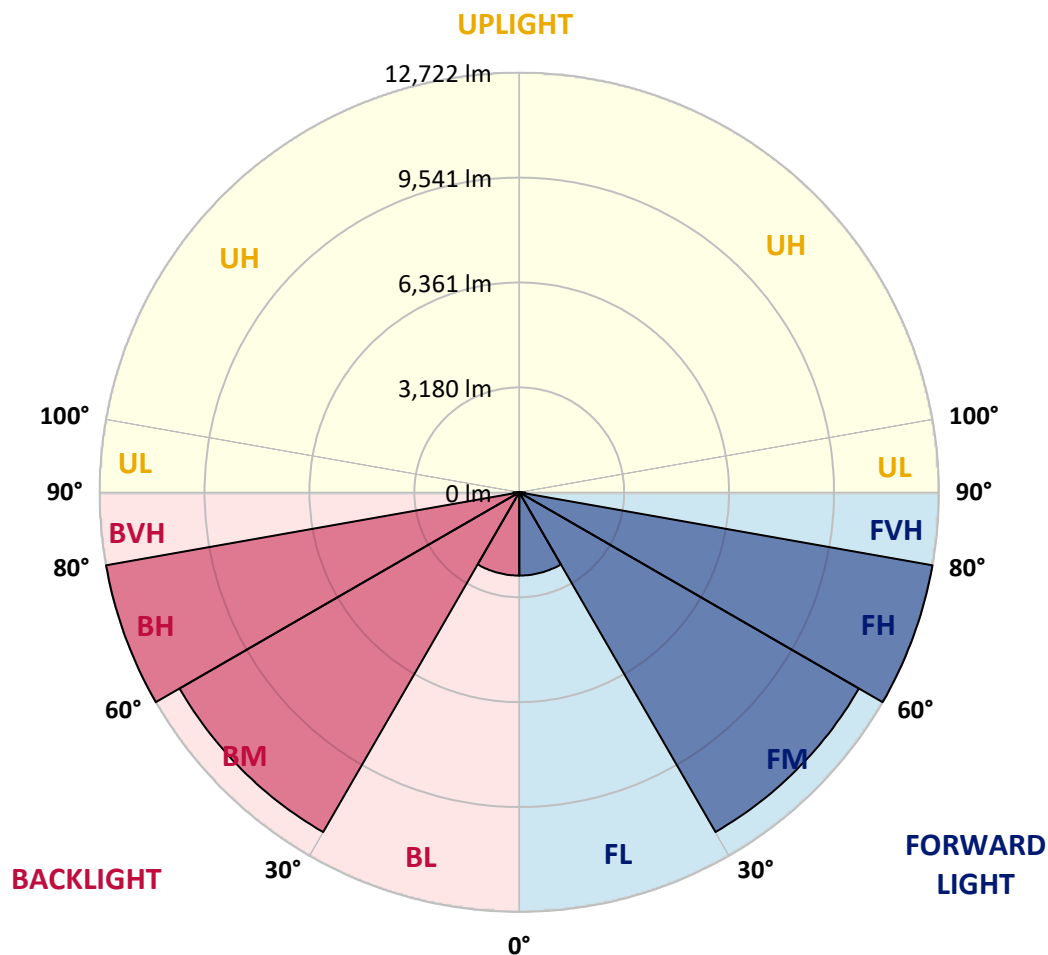
CATALOG NUMBER: GAN-SA8D-727-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2524.1	4.6			
FM	(30°-60°)	11892.8	21.8			
FH	(60°-80°)	12722.0	23.3			G5
FVH	(80°-90°)	176.6	0.3			G2/225
BL	(0°-30°)	2524.1	4.6	B4/5000		
BM	(30°-60°)	11892.8	21.8	B5		
BH	(60°-80°)	12722.0	23.3	B5		G5
BVH	(80°-90°)	176.6	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



REPORT NUMBER: P316422

CATALOG NUMBER: GAN-SA8D-727-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5966.6	5966.6	5966.6	5966.6	5966.6	5966.6	5966.6	5966.6	5966.6	5966.6	5966.6
2.5°	5957.5	5952.1	5964.7	5962.9	5952.1	5953.9	5953.9	5959.3	5959.3	5955.7	5955.7
5°	5935.8	5932.2	5946.7	5946.7	5935.8	5939.4	5943.1	5948.5	5946.7	5943.1	5941.2
7.5°	5908.7	5906.9	5921.4	5921.4	5914.1	5917.7	5914.1	5915.9	5912.3	5908.7	5903.3
10°	5863.5	5867.1	5879.8	5883.4	5883.4	5885.2	5881.6	5872.5	5867.1	5861.7	5856.3
12.5°	5821.9	5820.1	5838.2	5847.2	5861.7	5878.0	5867.1	5841.8	5831.0	5820.1	5816.5
15°	5794.8	5796.6	5814.7	5831.0	5856.3	5890.6	5878.0	5838.2	5816.5	5803.8	5800.2
17.5°	5789.4	5793.0	5816.5	5845.4	5872.5	5910.5	5903.3	5863.5	5827.3	5803.8	5798.4
20°	5802.0	5803.8	5840.0	5881.6	5928.6	5964.7	5948.5	5905.1	5856.3	5820.1	5811.1
22.5°	5825.5	5832.8	5878.0	5943.1	6015.4	6064.2	6044.3	5970.2	5894.2	5849.0	5836.4
25°	5899.7	5901.5	5962.9	6051.5	6138.3	6194.4	6170.9	6066.0	5968.4	5917.7	5901.5
27.5°	6053.3	6058.8	6120.2	6223.3	6297.4	6333.6	6319.1	6234.1	6151.0	6096.7	6102.2
30°	6275.7	6283.0	6351.7	6465.6	6510.8	6519.8	6516.2	6476.4	6400.5	6328.2	6333.6
32.5°	6546.9	6550.6	6642.8	6745.8	6782.0	6789.2	6782.0	6745.8	6655.4	6557.8	6563.2
35°	6895.9	6906.7	6995.3	7094.8	7123.7	7138.2	7125.5	7078.5	6984.5	6888.7	6885.0
37.5°	7326.2	7328.0	7420.2	7523.3	7559.4	7563.1	7548.6	7517.9	7400.3	7313.6	7308.1
40°	7825.2	7832.5	7940.9	8051.2	8065.7	8049.4	8069.3	8051.2	7930.1	7830.7	7846.9
42.5°	8432.7	8449.0	8579.2	8687.7	8646.1	8637.0	8649.7	8655.1	8557.5	8436.3	8425.5
45°	9139.7	9154.1	9316.9	9403.7	9376.5	9316.9	9342.2	9385.6	9250.0	9099.9	9114.4
47.5°	9946.1	9982.2	10155.8	10237.2	10170.3	10088.9	10137.7	10202.8	10043.7	9857.5	9848.4
50°	10842.9	10888.1	11119.5	11233.4	11166.5	11016.4	11097.8	11141.2	10911.6	10671.1	10651.2
52.5°	11799.3	11844.5	12135.6	12370.7	12327.3	12094.0	12207.9	12162.7	11898.8	11575.1	11549.8
55°	12882.3	12900.4	13215.0	13594.7	13638.1	13466.3	13459.1	13385.0	12994.4	12620.2	12602.1
57.5°	13996.1	14008.7	14415.6	14864.0	15068.3	15068.3	14865.8	14708.5	14189.6	13755.6	13710.4
60°	15198.4	15243.6	15693.8	16303.2	16780.5	16921.5	16563.5	16135.0	15570.9	15041.1	14988.7
62.5°	16268.8	16321.2	17010.1	17917.7	18684.4	19197.8	18322.7	17624.8	16597.9	15748.1	15648.6
65°	16404.4	16545.4	17548.9	19192.4	20908.3	21933.4	20255.6	18536.1	16664.8	15484.1	15382.9
67.5°	14981.5	15220.1	16576.2	19134.6	22680.1	24880.5	21490.4	18015.4	15464.2	14158.8	14046.7
70°	11511.8	11859.0	13422.9	16737.1	22374.6	25829.8	20716.6	15771.6	12893.2	11488.3	11331.0
72.5°	6315.5	6458.3	7865.0	11461.2	17937.6	21949.7	17279.5	11661.9	8550.3	6957.4	6693.4
75°	2003.3	2053.9	2769.9	4690.1	10146.8	14538.5	10976.7	5724.3	3151.4	2323.3	2296.2
77.5°	889.6	895.0	1001.7	1368.7	3495.0	7366.0	4198.3	1558.5	1074.0	938.4	969.1
80°	562.3	562.3	620.2	678.0	951.0	2138.9	1135.5	741.3	632.8	587.6	600.3
82.5°	269.4	298.3	403.2	433.9	522.5	719.6	582.2	484.6	423.1	314.6	292.9
85°	177.2	148.3	254.9	287.5	303.8	345.3	338.1	320.0	276.6	157.3	175.4
87.5°	79.6	75.9	132.0	121.1	113.9	86.8	130.2	160.9	155.5	77.7	77.7
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)