

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: P317264

Luminaire Tested: **GAN-SA0D-827-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57710 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 640
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

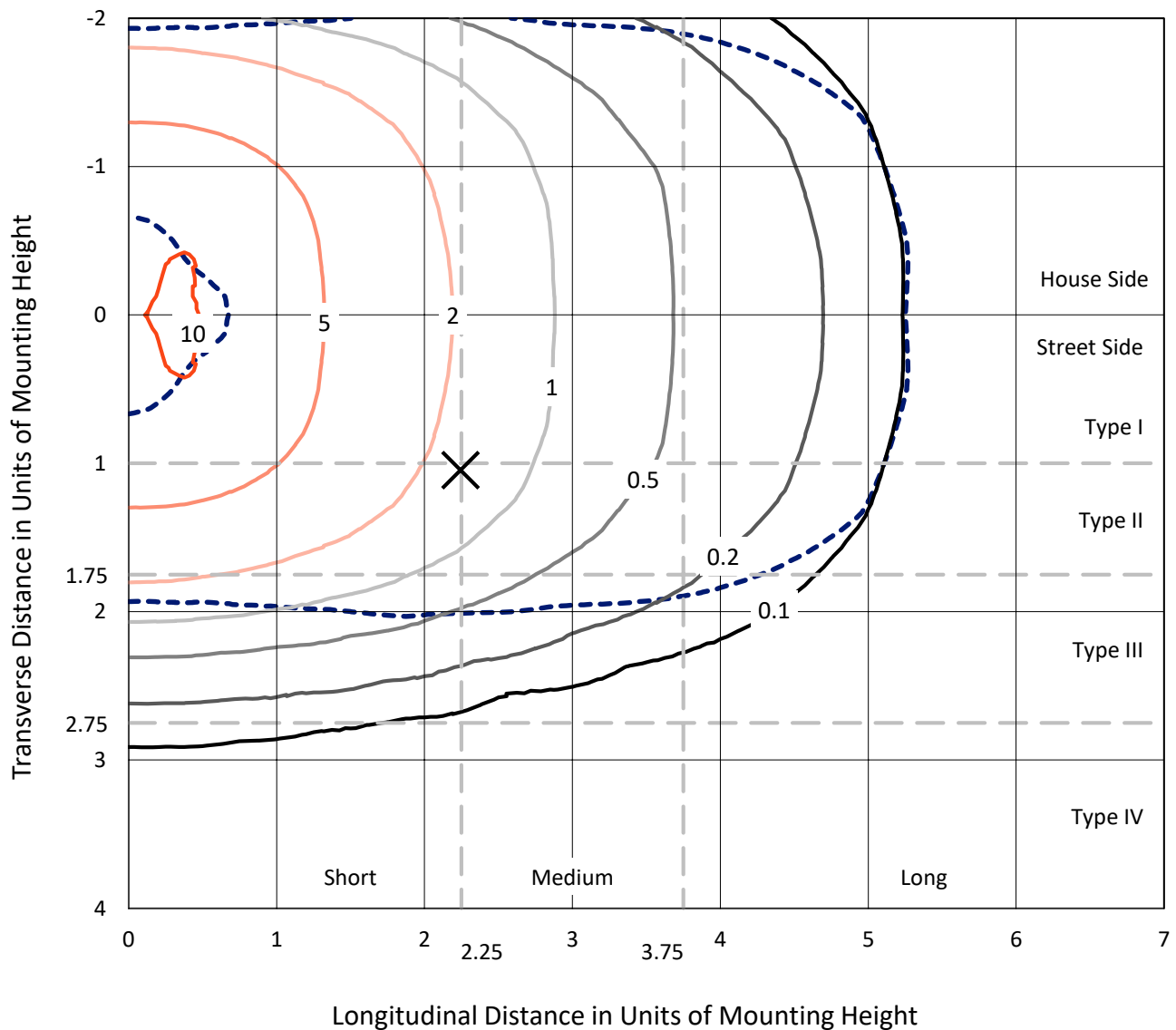


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Iso-Footcandle Lines of Horizontal Illumination

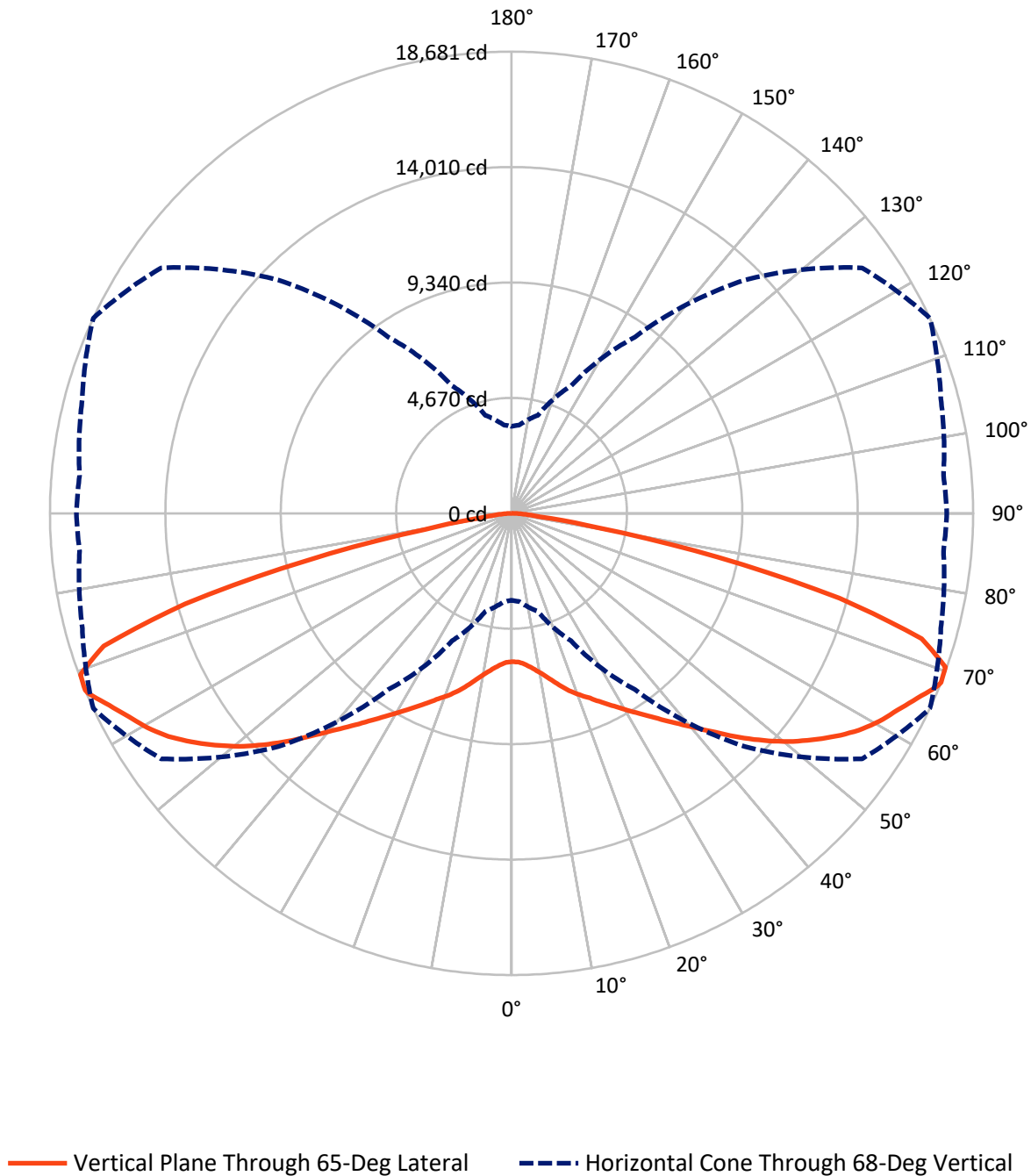
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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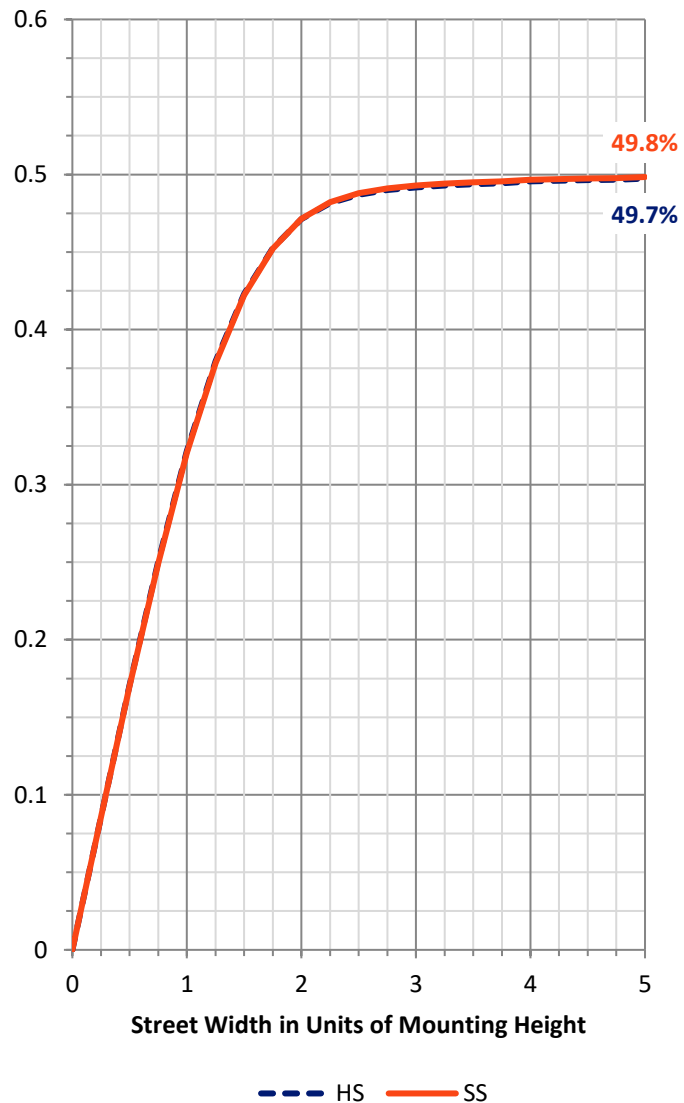
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28855.0	0.0	28855.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28855.0	0.0	28855.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	57710.0	0.0	57710.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.5	1.0
10°-20°	1967.2	3.4
20°-30°	3835.5	6.6
30°-40°	6443.3	11.2
40°-50°	10152.3	17.6
50°-60°	13577.0	23.5
60°-70°	13198.6	22.9
70°-80°	7215.0	12.5
80°-90°	733.8	1.3
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°	57710.0	100.0
0°-180°	57710.0	100.0

Coefficient of Utilization



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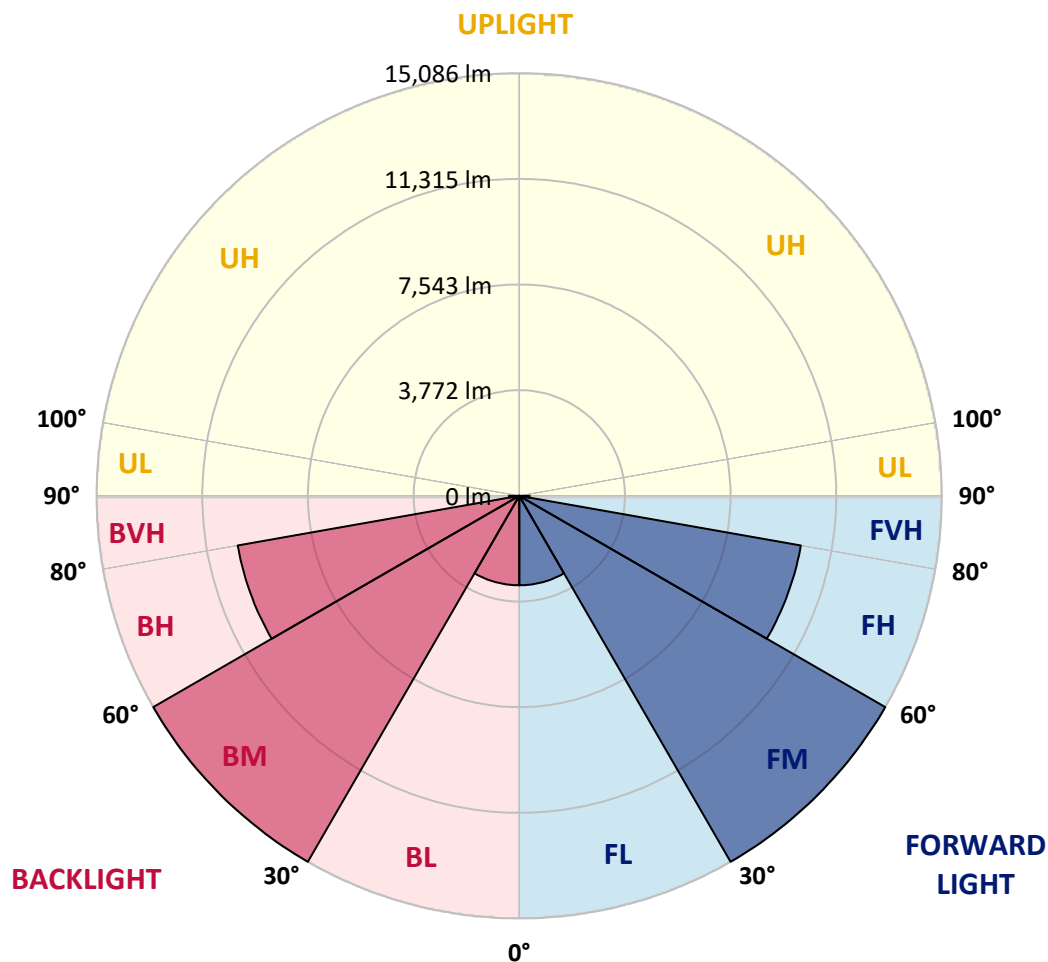
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3195.0	5.5			
FM	(30°-60°)	15086.3	26.1			
FH	(60°-80°)	10206.8	17.7			G4/12000
FVH	(80°-90°)	366.9	0.6			G3/500
BL	(0°-30°)	3195.0	5.5	B4/5000		
BM	(30°-60°)	15086.3	26.1	B5		
BH	(60°-80°)	10206.8	17.7	B5		G5
BVH	(80°-90°)	366.9	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6000.5	6000.5	6000.5	6000.5	6000.5	6000.5	6000.5	6000.5	6000.5	6000.5	6000.5
2.5°	5957.9	5959.8	5969.5	5981.1	5990.8	6016.0	6021.8	6031.4	6035.3	6045.0	6045.0
5°	5905.7	5909.5	5932.8	5963.7	5998.5	6060.5	6105.0	6155.3	6180.4	6207.5	6205.6
7.5°	5899.9	5909.5	5942.4	5992.7	6050.8	6153.3	6246.2	6346.8	6414.6	6476.5	6472.6
10°	5959.8	5975.3	6021.8	6097.2	6184.3	6312.0	6449.4	6584.9	6702.9	6797.7	6801.6
12.5°	6050.8	6070.1	6143.7	6257.8	6389.4	6553.9	6716.4	6869.3	7031.8	7173.1	7184.7
15°	6170.8	6195.9	6306.2	6476.5	6677.7	6873.2	7047.3	7204.1	7391.8	7587.2	7606.5
17.5°	6348.8	6383.6	6528.7	6759.0	7024.1	7238.9	7420.8	7538.8	7695.6	7896.8	7933.6
20°	6619.7	6664.2	6848.0	7122.8	7445.9	7670.4	7809.7	7834.9	7912.3	8092.2	8134.8
22.5°	6971.9	7010.6	7215.7	7542.7	7904.5	8148.3	8221.9	8121.3	8113.5	8258.6	8299.3
25°	7364.7	7399.5	7637.5	8005.2	8394.1	8663.1	8661.1	8465.7	8330.2	8442.5	8485.0
27.5°	7805.9	7860.0	8088.4	8475.4	8891.4	9156.5	9141.0	8839.1	8581.8	8610.8	8647.6
30°	8312.8	8372.8	8595.3	8988.1	9404.2	9663.5	9644.1	9245.5	8858.5	8781.1	8808.2
32.5°	8941.7	9013.3	9224.2	9611.2	9978.9	10213.0	10156.9	9686.7	9191.3	9023.0	9048.1
35°	9698.3	9740.9	9963.4	10344.6	10642.6	10803.2	10685.2	10197.5	9613.2	9410.0	9410.0
37.5°	10464.6	10497.5	10747.1	11116.7	11405.0	11490.1	11259.9	10756.7	10164.6	9876.3	9882.1
40°	11199.9	11288.9	11569.5	11948.7	12233.2	12256.4	11950.7	11395.3	10778.0	10480.0	10514.9
42.5°	11968.1	12055.1	12389.9	12819.5	13071.0	13109.7	12751.8	12111.3	11470.8	11228.9	11267.6
45°	12653.1	12722.7	13109.7	13609.0	13922.4	14023.1	13599.3	12931.7	12219.6	11983.5	11993.2
47.5°	13131.0	13222.0	13647.7	14235.9	14692.6	14847.4	14431.3	13730.9	12956.9	12670.5	12695.6
50°	13564.5	13612.8	14044.3	14686.8	15267.3	15586.5	15230.5	14520.4	13701.8	13398.0	13425.1
52.5°	13806.3	13868.3	14286.2	14955.7	15642.7	16157.4	15940.7	15230.5	14421.7	14125.6	14158.5
55°	13638.0	13684.4	14185.6	15015.7	15874.9	16509.5	16542.4	15925.2	15127.9	14868.7	14961.5
57.5°	12871.7	12929.8	13541.2	14628.7	15903.9	16747.6	16995.2	16569.5	15787.8	15576.9	15631.1
60°	11673.9	11710.7	12362.8	13585.7	15338.9	16846.2	17283.6	17095.9	16434.1	16223.2	16296.7
62.5°	9539.6	9593.8	10373.6	12012.6	14145.0	16554.1	17562.2	17531.2	17035.9	16842.4	16908.2
65°	6521.0	6615.8	7478.8	9551.2	12304.8	15660.1	17815.7	18038.2	17568.0	17324.2	17411.3
67.5°	3937.8	4007.4	4632.4	6306.2	9415.8	13856.6	17554.5	18614.8	17943.4	17550.6	17622.2
68°	3519.8	3583.6	4106.1	5690.9	8709.5	13347.7	17316.5	18680.6	17984.0	17546.7	17610.6
70°	2126.6	2169.2	2519.4	3517.9	5807.0	10588.4	15693.0	18626.5	18243.3	17600.9	17637.7
72.5°	1385.5	1399.0	1457.1	1805.4	2966.4	5921.1	11778.4	17357.1	18632.3	17916.3	17910.5
75°	1151.3	1143.6	1149.4	1190.0	1462.9	2596.8	6882.8	13711.5	17761.5	17419.0	17297.1
77.5°	973.3	967.5	965.6	967.5	979.1	1253.9	2987.7	8541.2	13591.5	15408.5	15516.9
80°	787.6	779.8	805.0	793.4	758.5	779.8	1252.0	3552.7	6406.8	6892.5	6459.1
82.5°	572.8	543.7	652.1	621.1	592.1	549.5	690.8	1147.5	1528.7	1048.8	737.2
85°	441.2	410.2	495.4	476.0	406.4	280.6	410.2	561.2	619.2	354.1	278.6
87.5°	180.0	189.6	358.0	282.5	238.0	135.5	168.3	224.5	301.9	150.9	116.1
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)