

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: P317302

Luminaire Tested: **GAN-SA8D-830-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317302
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-SA8D-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50512 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - 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

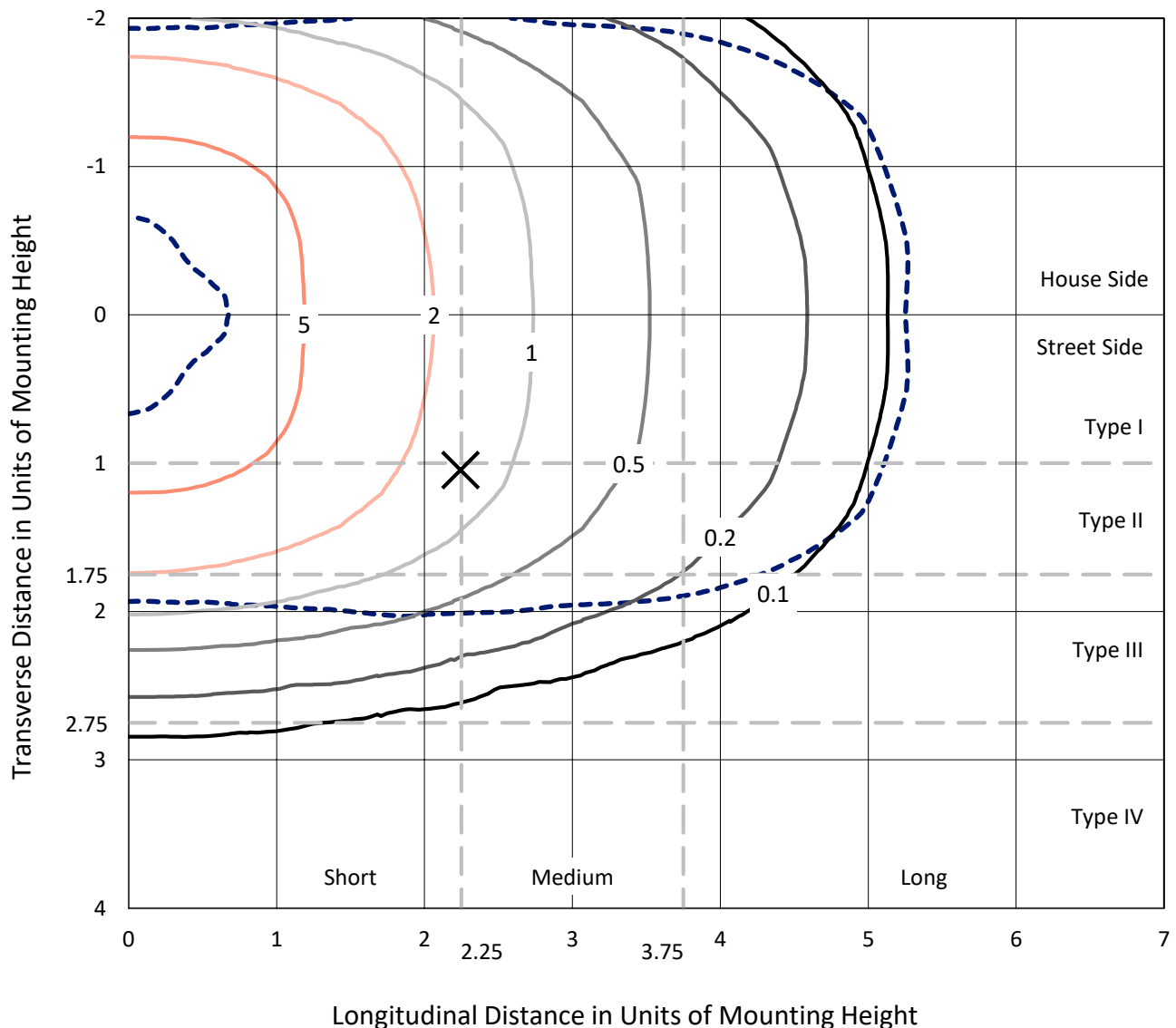


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Iso-Footcandle Lines of Horizontal Illumination

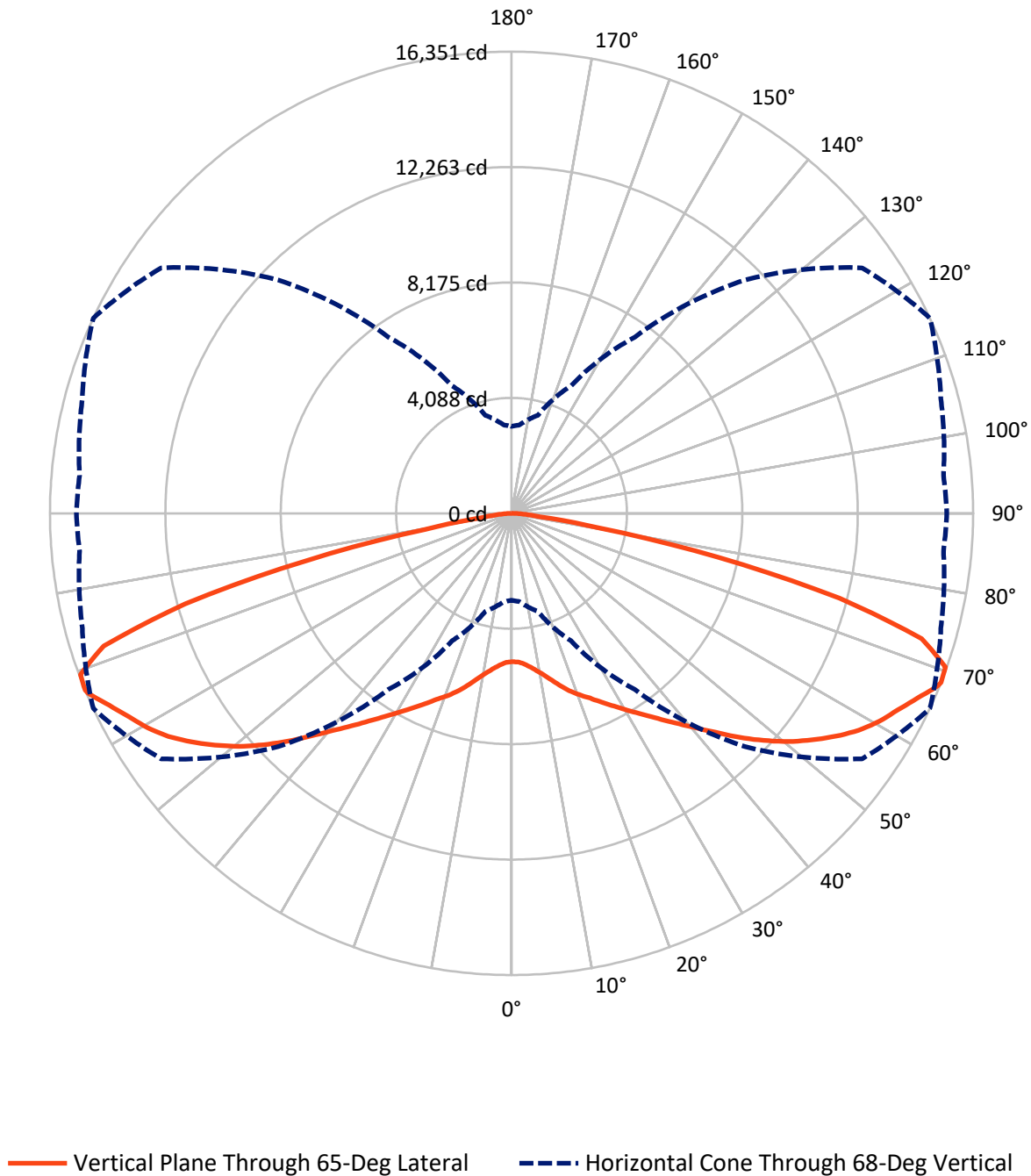
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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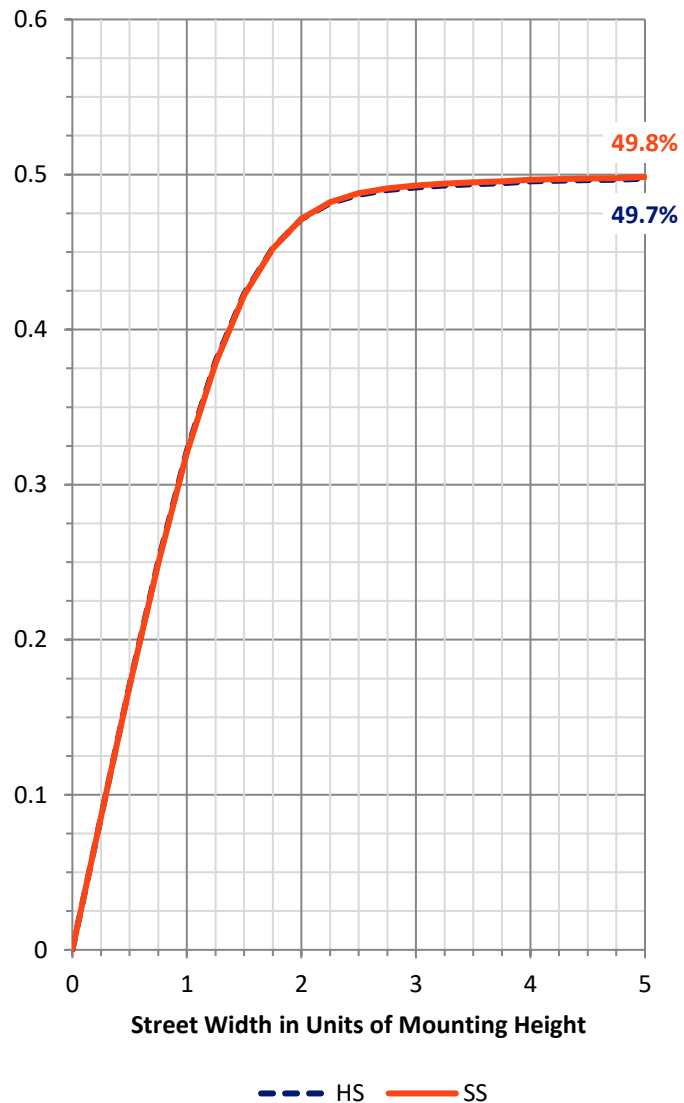
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25256.0	0.0	25256.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25256.0	0.0	25256.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	50512.0	0.0	50512.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.2	1.0
10°-20°	1721.8	3.4
20°-30°	3357.1	6.6
30°-40°	5639.6	11.2
40°-50°	8886.0	17.6
50°-60°	11883.6	23.5
60°-70°	11552.3	22.9
70°-80°	6315.1	12.5
80°-90°	642.3	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°	50512.0	100.0
0°-180°	50512.0	100.0

Coefficient of Utilization



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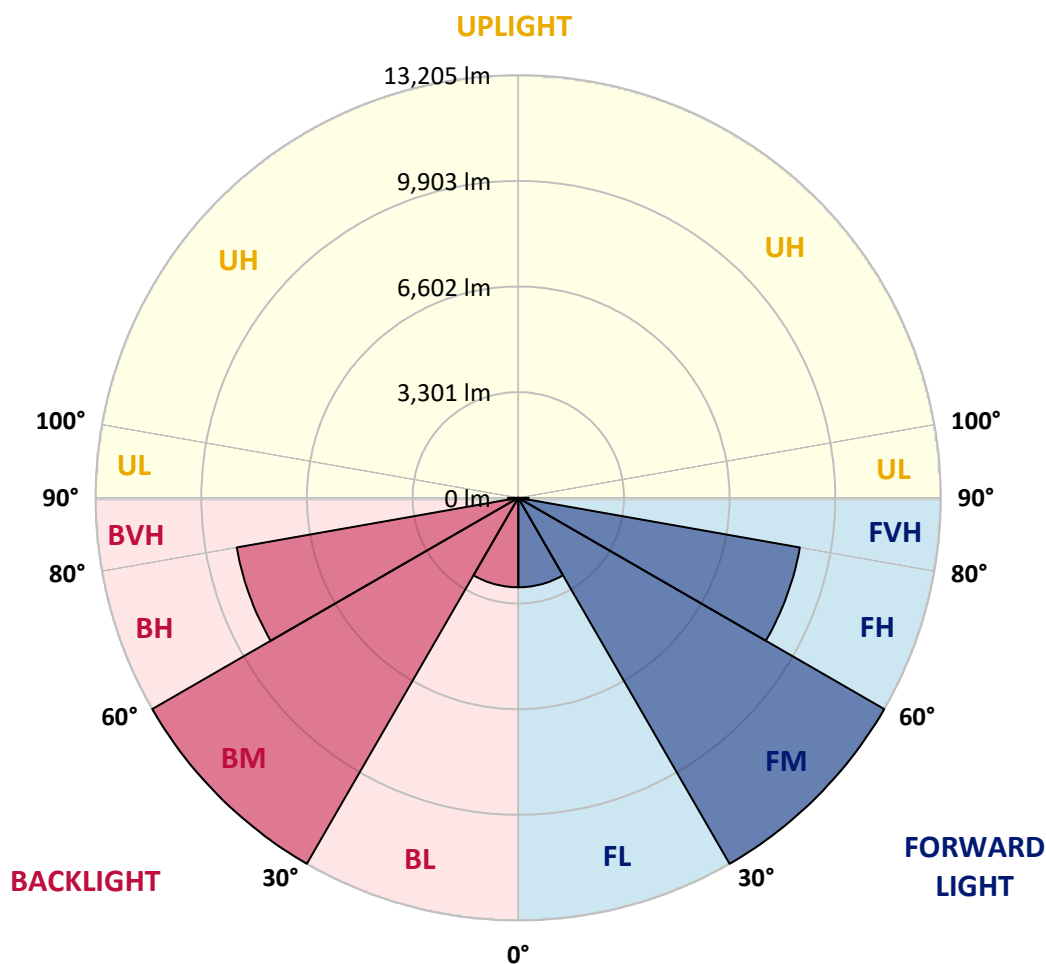
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2796.5	5.5			
FM	(30°-60°)	13204.6	26.1			
FH	(60°-80°)	8933.7	17.7			G4/12000
FVH	(80°-90°)	321.1	0.6			G3/500
BL	(0°-30°)	2796.5	5.5	B4/5000		
BM	(30°-60°)	13204.6	26.1	B5		
BH	(60°-80°)	8933.7	17.7	B5		G5
BVH	(80°-90°)	321.1	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°	5252.1	5252.1	5252.1	5252.1	5252.1	5252.1	5252.1	5252.1	5252.1	5252.1	5252.1
2.5°	5214.8	5216.5	5225.0	5235.1	5243.6	5265.6	5270.7	5279.2	5282.5	5291.0	5291.0
5°	5169.1	5172.5	5192.8	5219.9	5250.4	5304.6	5343.5	5387.6	5409.6	5433.3	5431.6
7.5°	5164.0	5172.5	5201.2	5245.3	5296.1	5385.9	5467.2	5555.2	5614.5	5668.7	5665.3
10°	5216.5	5230.0	5270.7	5336.7	5413.0	5524.7	5645.0	5763.5	5866.9	5949.8	5953.2
12.5°	5296.1	5313.0	5377.4	5477.3	5592.5	5736.4	5878.7	6012.5	6154.8	6278.4	6288.6
15°	5401.1	5423.1	5519.7	5668.7	5844.8	6015.9	6168.3	6305.5	6469.8	6640.9	6657.8
17.5°	5556.9	5587.4	5714.4	5916.0	6148.0	6336.0	6495.2	6598.5	6735.7	6911.9	6944.0
20°	5794.0	5833.0	5993.9	6234.4	6517.2	6713.7	6835.6	6857.7	6925.4	7082.9	7120.2
22.5°	6102.3	6136.2	6315.7	6601.9	6918.6	7132.0	7196.4	7108.3	7101.5	7228.6	7264.1
25°	6446.1	6476.6	6684.9	7006.7	7347.1	7582.5	7580.9	7409.8	7291.2	7389.5	7426.7
27.5°	6832.3	6879.7	7079.5	7418.3	7782.4	8014.4	8000.9	7736.7	7511.4	7536.8	7569.0
30°	7276.0	7328.5	7523.3	7867.1	8231.2	8458.2	8441.2	8092.3	7753.6	7685.9	7709.6
32.5°	7826.4	7889.1	8073.7	8412.4	8734.2	8939.2	8890.1	8478.5	8044.9	7897.6	7919.6
35°	8488.7	8525.9	8720.7	9054.3	9315.2	9455.7	9352.4	8925.6	8414.1	8236.3	8236.3
37.5°	9159.3	9188.1	9406.6	9730.1	9982.5	10057.0	9855.4	9415.1	8896.8	8644.5	8649.6
40°	9802.9	9880.8	10126.4	10458.4	10707.4	10727.7	10460.1	9974.0	9433.7	9172.9	9203.4
42.5°	10475.3	10551.5	10844.5	11220.5	11440.7	11474.6	11161.3	10600.7	10040.1	9828.3	9862.2
45°	11074.9	11135.9	11474.6	11911.6	12185.9	12274.0	11903.1	11318.8	10695.5	10488.9	10497.3
47.5°	11493.2	11572.8	11945.4	12460.3	12860.0	12995.5	12631.4	12018.3	11340.8	11090.1	11112.1
50°	11872.6	11914.9	12292.6	12854.9	13363.0	13642.5	13330.8	12709.3	11992.9	11726.9	11750.7
52.5°	12084.3	12138.5	12504.3	13090.3	13691.6	14142.1	13952.4	13330.8	12622.9	12363.8	12392.6
55°	11937.0	11977.6	12416.3	13142.9	13894.8	14450.4	14479.2	13938.9	13241.1	13014.1	13095.4
57.5°	11266.3	11317.1	11852.3	12804.1	13920.2	14658.7	14875.5	14502.9	13818.6	13634.0	13681.4
60°	10217.9	10250.1	10820.8	11891.2	13425.7	14745.1	15127.8	14963.5	14384.3	14199.7	14264.1
62.5°	8349.8	8397.2	9079.7	10514.3	12380.7	14489.3	15371.7	15344.6	14911.0	14741.7	14799.3
65°	5707.7	5790.6	6546.0	8359.9	10770.0	13706.8	15593.6	15788.4	15376.8	15163.4	15239.6
67.5°	3446.6	3507.6	4054.6	5519.7	8241.4	12128.3	15364.9	16293.1	15705.4	15361.6	15424.2
68°	3080.8	3136.7	3594.0	4981.1	7623.2	11682.9	15156.6	16350.7	15740.9	15358.2	15414.1
70°	1861.3	1898.6	2205.2	3079.1	5082.7	9267.7	13735.6	16303.2	15967.9	15405.6	15437.8
72.5°	1212.7	1224.5	1275.3	1580.2	2596.4	5182.6	10309.3	15192.2	16308.3	15681.7	15676.6
75°	1007.7	1001.0	1006.0	1041.6	1280.4	2272.9	6024.4	12001.3	15546.2	15246.4	15139.7
77.5°	851.9	846.8	845.1	846.8	857.0	1097.5	2615.0	7475.8	11896.3	13486.7	13581.5
80°	689.3	682.5	704.6	694.4	663.9	682.5	1095.8	3109.6	5607.7	6032.8	5653.5
82.5°	501.3	475.9	570.8	543.7	518.3	481.0	604.6	1004.3	1338.0	918.0	645.3
85°	386.2	359.1	433.6	416.6	355.7	245.6	359.1	491.2	542.0	309.9	243.9
87.5°	157.5	166.0	313.3	247.3	208.3	118.6	147.3	196.5	264.2	132.1	101.6
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)