

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: P317052

Luminaire Tested: **GAN-SA8C-727-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317052
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-SA8C-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48459 lumens
Efficiency: N/A
Efficacy: 108.9 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): 445
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

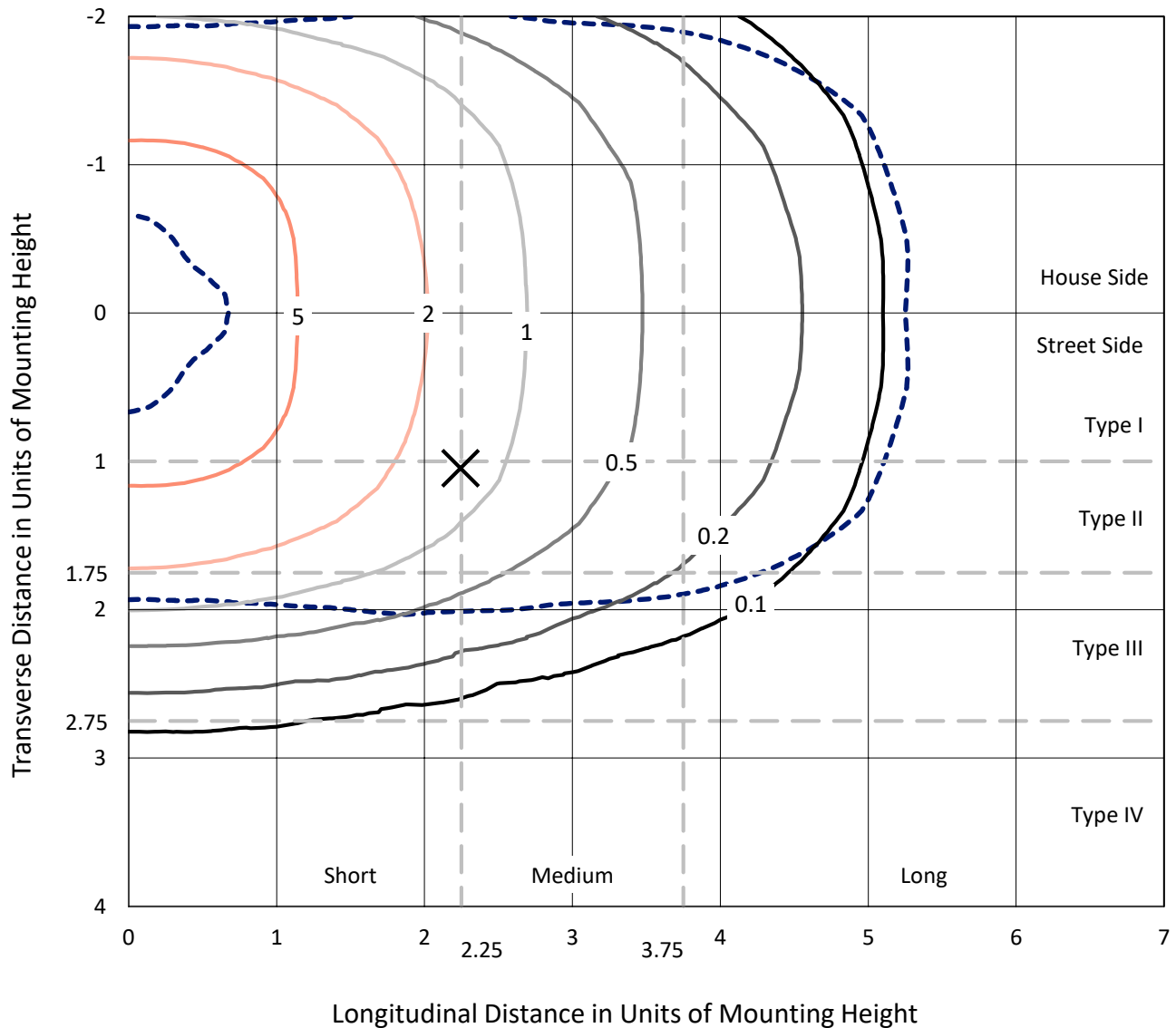


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Iso-Footcandle Lines of Horizontal Illumination

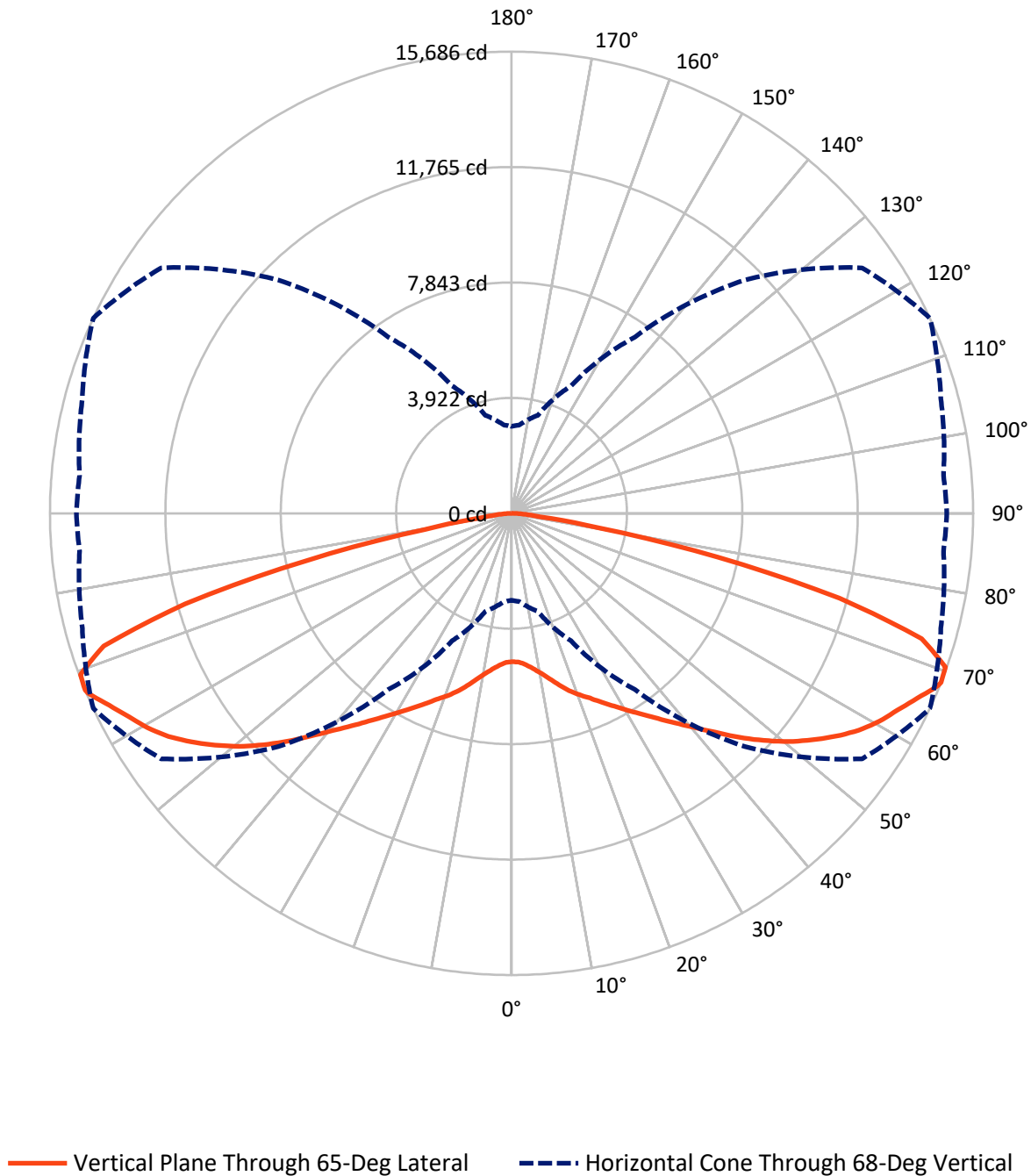
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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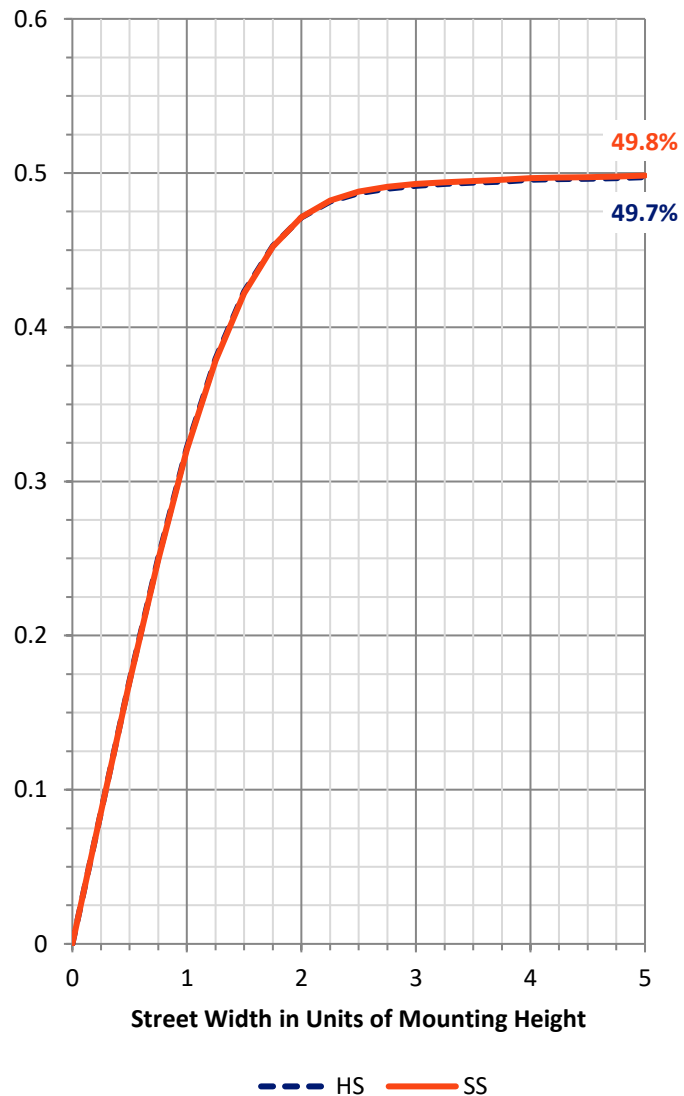
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24229.5	0.0	24229.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24229.5	0.0	24229.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	48459.0	0.0	48459.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.3	1.0
10°-20°	1651.8	3.4
20°-30°	3220.6	6.6
30°-40°	5410.4	11.2
40°-50°	8524.9	17.6
50°-60°	11400.6	23.5
60°-70°	11082.8	22.9
70°-80°	6058.4	12.5
80°-90°	616.2	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°	48459.0	100.0
0°-180°	48459.0	100.0

Coefficient of Utilization



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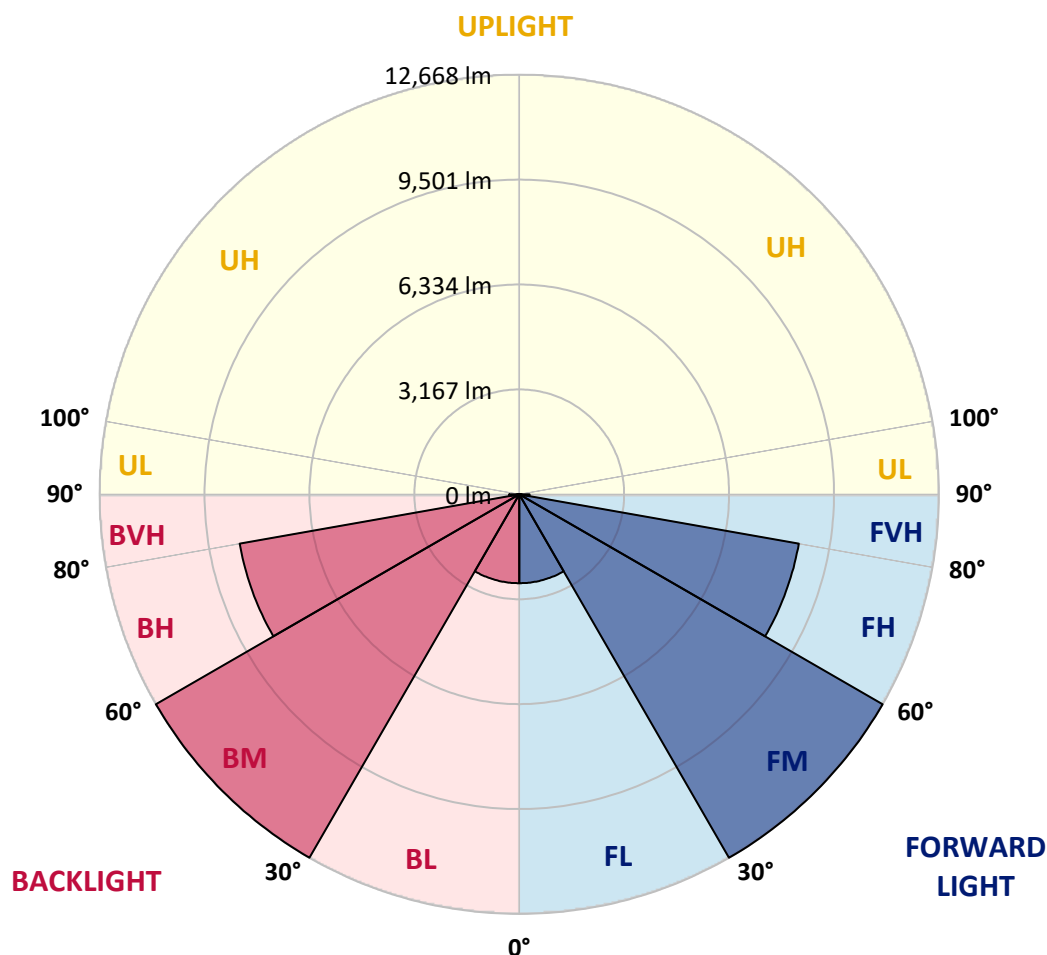
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2682.9	5.5			
FM	(30°-60°)	12667.9	26.1			
FH	(60°-80°)	8570.6	17.7			G4/12000
FVH	(80°-90°)	308.1	0.6			G3/500
BL	(0°-30°)	2682.9	5.5	B4/5000		
BM	(30°-60°)	12667.9	26.1	B5		
BH	(60°-80°)	8570.6	17.7	B5		G5
BVH	(80°-90°)	308.1	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°	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6	5038.6
2.5°	5002.8	5004.5	5012.6	5022.3	5030.5	5051.6	5056.5	5064.6	5067.8	5076.0	5076.0
5°	4959.0	4962.2	4981.7	5007.7	5037.0	5089.0	5126.3	5168.6	5189.7	5212.5	5210.8
7.5°	4954.1	4962.2	4989.9	5032.1	5080.8	5167.0	5244.9	5329.4	5386.3	5438.3	5435.1
10°	5004.5	5017.5	5056.5	5119.8	5193.0	5300.2	5415.6	5529.3	5628.4	5708.0	5711.3
12.5°	5080.8	5097.1	5158.8	5254.7	5365.2	5503.3	5639.8	5768.1	5904.6	6023.2	6033.0
15°	5181.6	5202.7	5295.3	5438.3	5607.3	5771.4	5917.6	6049.2	6206.8	6371.0	6387.2
17.5°	5331.1	5360.3	5482.2	5675.5	5898.1	6078.5	6231.2	6330.3	6461.9	6630.9	6661.8
20°	5558.5	5595.9	5750.3	5981.0	6252.3	6440.8	6557.8	6578.9	6643.9	6795.0	6830.8
22.5°	5854.3	5886.8	6059.0	6333.6	6637.4	6842.2	6903.9	6819.4	6812.9	6934.8	6968.9
25°	6184.1	6213.3	6413.2	6721.9	7048.5	7274.4	7272.7	7108.6	6994.9	7089.1	7124.9
27.5°	6554.6	6600.1	6791.8	7116.8	7466.1	7688.7	7675.7	7422.2	7206.1	7230.5	7261.4
30°	6980.3	7030.6	7217.5	7547.3	7896.7	8114.4	8098.1	7763.4	7438.5	7373.5	7396.2
32.5°	7508.3	7568.5	7745.6	8070.5	8379.2	8575.8	8528.7	8133.9	7717.9	7576.6	7597.7
35°	8143.6	8179.4	8366.2	8686.3	8936.6	9071.4	8972.3	8562.9	8072.2	7901.5	7901.5
37.5°	8787.1	8814.7	9024.3	9334.6	9576.7	9648.2	9454.9	9032.4	8535.2	8293.1	8298.0
40°	9404.5	9479.3	9714.9	10033.3	10272.2	10291.7	10034.9	9568.6	9050.3	8800.1	8829.3
42.5°	10049.6	10122.7	10403.8	10764.5	10975.7	11008.2	10707.6	10169.8	9632.0	9428.9	9461.4
45°	10624.8	10683.3	11008.2	11427.4	11690.6	11775.1	11419.3	10858.7	10260.8	10062.6	10070.7
47.5°	11026.1	11102.5	11459.9	11953.9	12337.3	12467.3	12118.0	11529.8	10879.9	10639.4	10660.5
50°	11390.1	11430.7	11793.0	12332.5	12819.9	13088.0	12789.0	12192.7	11505.4	11250.3	11273.1
52.5°	11593.2	11645.2	11996.1	12558.3	13135.1	13567.3	13385.3	12789.0	12109.9	11861.3	11888.9
55°	11451.8	11490.8	11911.6	12608.7	13330.1	13863.0	13890.7	13372.3	12702.9	12485.2	12563.2
57.5°	10808.4	10857.1	11370.6	12283.7	13354.5	14062.9	14270.9	13913.4	13257.0	13079.9	13125.4
60°	9802.6	9833.5	10381.0	11407.9	12880.0	14145.8	14513.0	14355.4	13799.7	13622.6	13684.3
62.5°	8010.4	8055.9	8710.7	10086.9	11877.5	13900.4	14747.0	14721.0	14305.0	14142.5	14197.8
65°	5475.7	5555.3	6280.0	8020.2	10332.3	13149.7	14959.8	15146.7	14751.8	14547.1	14620.2
67.5°	3306.5	3365.0	3889.8	5295.3	7906.4	11635.4	14740.5	15630.9	15067.0	14737.2	14797.3
68°	2955.6	3009.2	3447.9	4778.6	7313.4	11208.1	14540.6	15686.1	15101.2	14734.0	14787.6
70°	1785.7	1821.4	2115.5	2953.9	4876.1	8891.1	13177.4	15640.6	15318.9	14779.4	14810.3
72.5°	1163.4	1174.8	1223.5	1516.0	2490.9	4972.0	9890.3	14574.7	15645.5	15044.3	15039.4
75°	966.8	960.3	965.1	999.3	1228.4	2180.5	5779.5	11513.5	14914.3	14626.7	14524.3
77.5°	817.3	812.4	810.8	812.4	822.2	1052.9	2508.7	7172.0	11412.8	12938.5	13029.5
80°	661.3	654.8	675.9	666.2	636.9	654.8	1051.3	2983.2	5379.8	5787.6	5423.7
82.5°	480.9	456.6	547.6	521.6	497.2	461.5	580.1	963.5	1283.6	880.7	619.1
85°	370.5	344.5	416.0	399.7	341.2	235.6	344.5	471.2	519.9	297.3	234.0
87.5°	151.1	159.2	300.6	237.2	199.9	113.7	141.4	188.5	253.5	126.7	97.5
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)