

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: McGRAW-EDISON

Report Number: P457092

Luminaire Tested: **GALN-SA8B-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38295 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 325
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

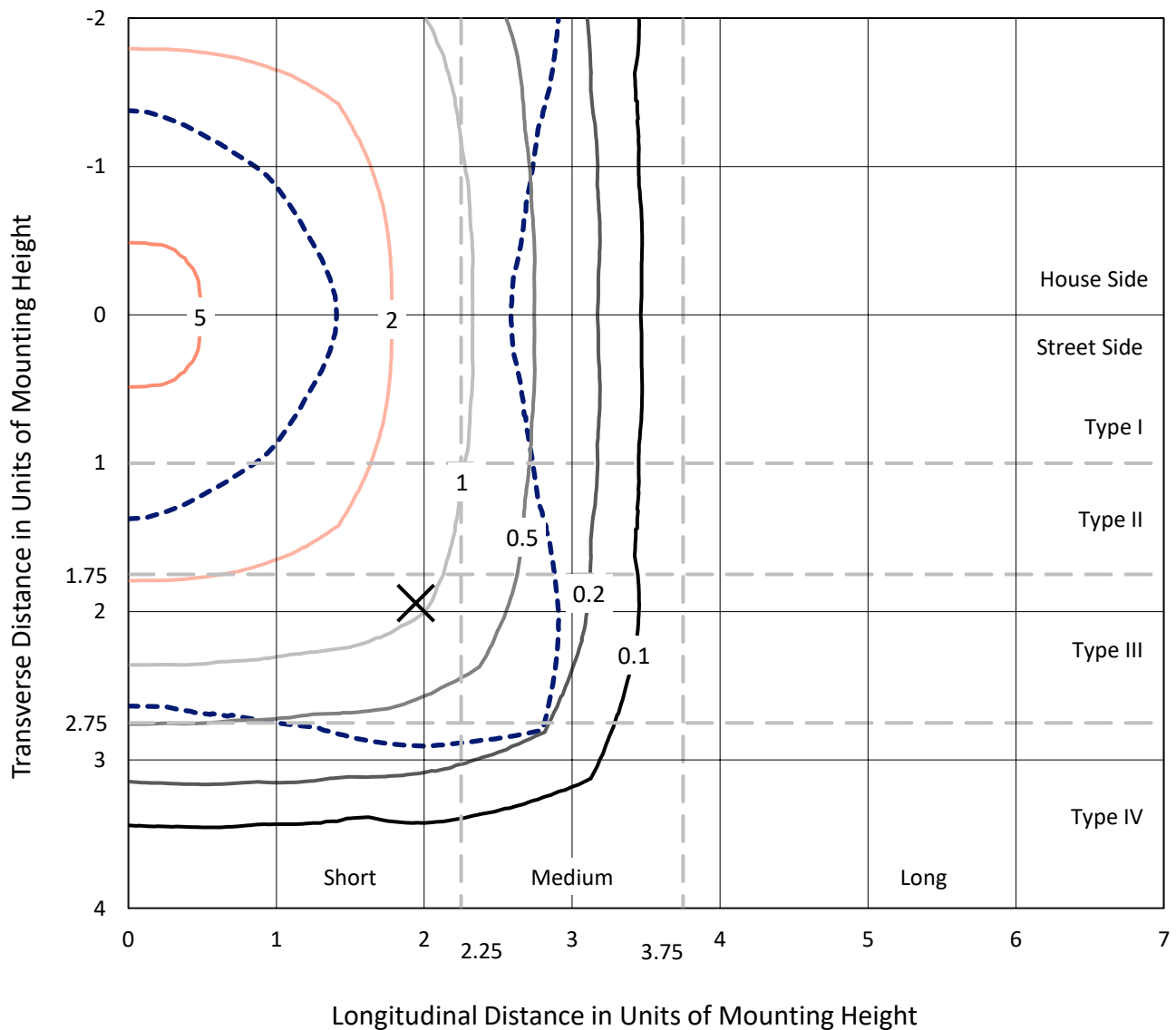


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

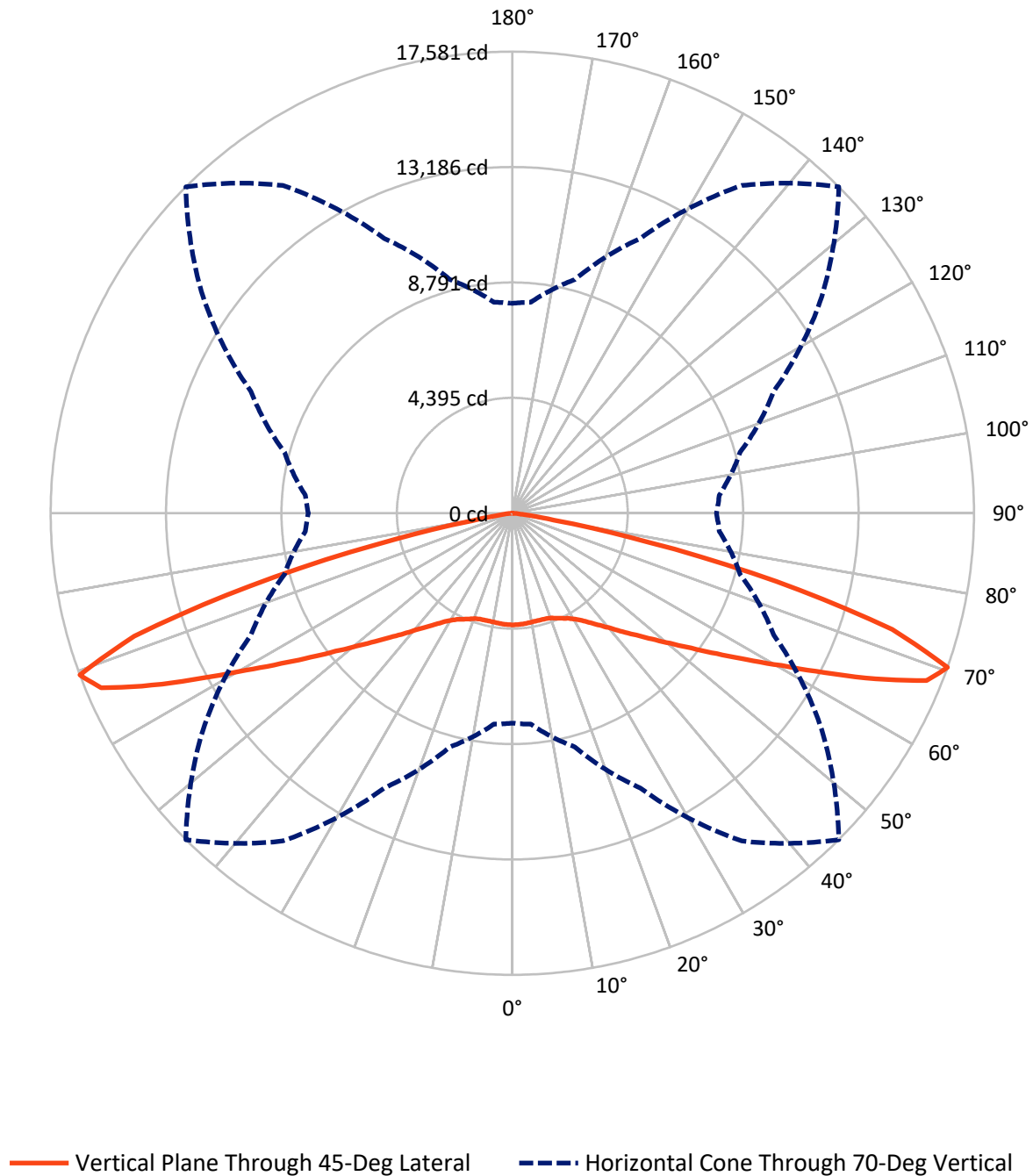


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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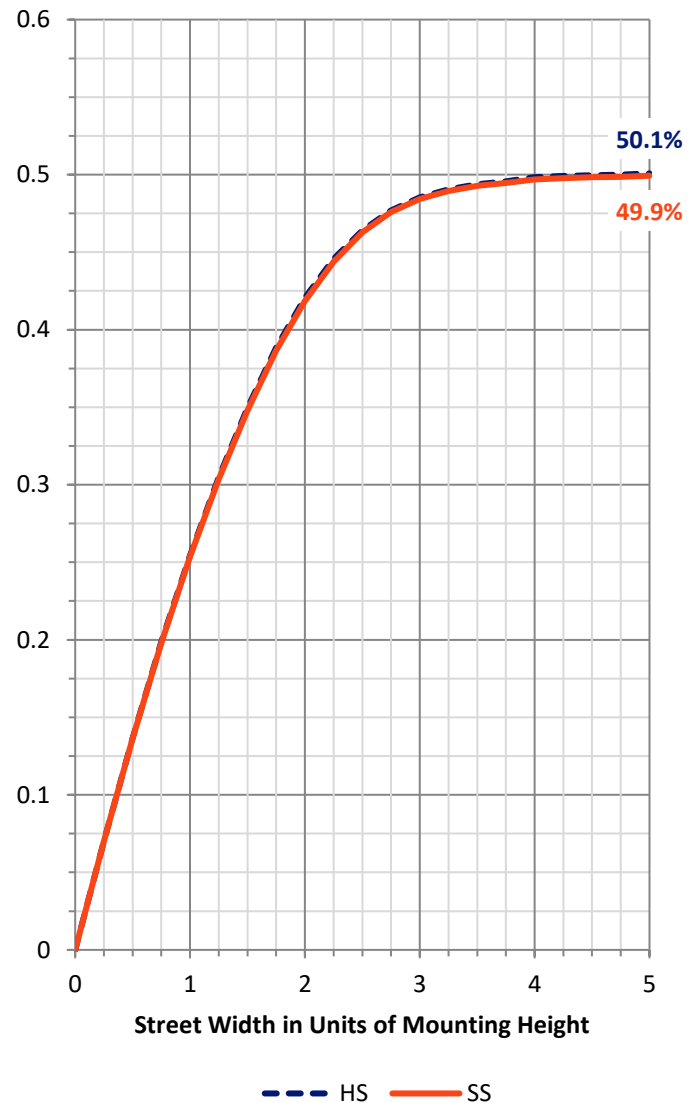
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19147.5	0.0	19147.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19147.5	0.0	19147.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38295.0	0.0	38295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.3	1.1
10°-20°	1183.3	3.1
20°-30°	2023.8	5.3
30°-40°	3212.3	8.4
40°-50°	5182.3	13.5
50°-60°	8431.7	22.0
60°-70°	12222.9	31.9
70°-80°	5421.6	14.2
80°-90°	213.8	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°	38295.0	100.0
0°-180°	38295.0	100.0

Coefficient of Utilization



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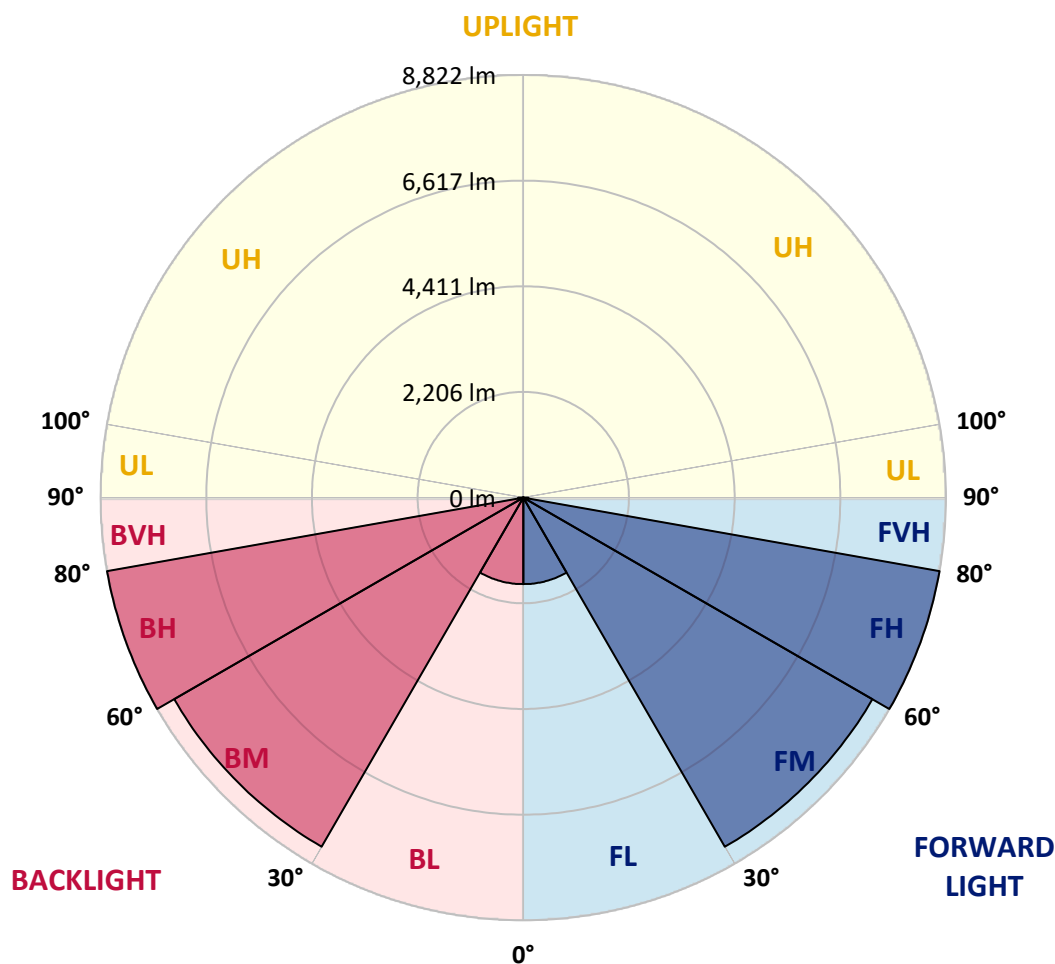
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1805.2	4.7			
FM	(30°-60°)	8413.1	22.0			
FH	(60°-80°)	8822.3	23.0			G4/12000
FVH	(80°-90°)	106.9	0.3			G2/225
BL	(0°-30°)	1805.2	4.7	B3/2500		
BM	(30°-60°)	8413.1	22.0	B4/8500		
BH	(60°-80°)	8822.3	23.0	B5		G4/12000
BVH	(80°-90°)	106.9	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4252.5	4252.5	4252.5	4252.5	4252.5	4252.5	4252.5	4252.5	4252.5	4252.5	4252.5
2.5°	4252.5	4256.5	4250.5	4246.4	4244.4	4244.4	4242.4	4244.4	4256.5	4258.5	4252.5
5°	4240.4	4244.4	4242.4	4238.4	4236.3	4236.3	4234.3	4232.3	4242.4	4246.4	4244.4
7.5°	4224.2	4226.2	4224.2	4222.2	4224.2	4222.2	4216.2	4212.1	4220.2	4220.2	4218.2
10°	4196.0	4200.0	4198.0	4200.0	4204.0	4204.0	4196.0	4187.9	4189.9	4185.9	4185.9
12.5°	4161.7	4167.7	4169.7	4177.8	4187.9	4200.0	4181.8	4163.7	4159.6	4157.6	4155.6
15°	4139.5	4145.5	4153.6	4161.7	4179.8	4206.1	4179.8	4151.6	4143.5	4135.4	4131.4
17.5°	4133.4	4141.5	4153.6	4165.7	4189.9	4216.2	4193.9	4165.7	4145.5	4133.4	4129.4
20°	4149.5	4155.6	4173.8	4196.0	4230.3	4256.5	4234.3	4204.0	4173.8	4155.6	4149.5
22.5°	4181.8	4191.9	4214.1	4254.5	4302.9	4341.3	4311.0	4260.6	4212.1	4187.9	4179.8
25°	4252.5	4260.6	4286.8	4341.3	4397.8	4434.1	4401.8	4343.3	4276.7	4244.4	4234.3
27.5°	4359.4	4371.6	4399.8	4464.4	4510.8	4531.0	4508.8	4468.4	4420.0	4385.7	4377.6
30°	4510.8	4524.9	4567.3	4635.9	4666.2	4678.3	4668.2	4642.0	4607.7	4571.4	4563.3
32.5°	4714.7	4722.7	4771.2	4835.8	4864.0	4868.0	4855.9	4843.8	4787.3	4726.8	4722.7
35°	4942.7	4956.9	5015.4	5092.1	5118.3	5120.3	5096.1	5077.9	5011.3	4962.9	4962.9
37.5°	5245.5	5251.5	5308.0	5394.8	5423.1	5415.0	5402.9	5386.7	5316.1	5253.5	5255.6
40°	5600.7	5612.8	5661.2	5762.1	5762.1	5752.0	5760.1	5748.0	5677.4	5616.8	5618.8
42.5°	6022.5	6028.6	6087.1	6194.0	6186.0	6165.8	6173.9	6157.7	6113.3	6044.7	6020.5
45°	6472.6	6496.8	6597.7	6700.6	6684.5	6619.9	6652.2	6648.2	6607.8	6504.9	6510.9
47.5°	7015.5	7055.8	7152.7	7275.8	7257.7	7156.8	7193.1	7217.3	7160.8	7047.8	7027.6
50°	7627.0	7653.3	7796.5	7911.6	7895.4	7788.5	7871.2	7875.3	7734.0	7574.5	7574.5
52.5°	8278.9	8305.2	8498.9	8678.5	8688.6	8533.2	8599.8	8595.8	8365.7	8155.8	8115.4
55°	9009.5	9021.6	9271.9	9536.3	9592.8	9441.4	9449.5	9368.8	9070.1	8825.9	8803.7
57.5°	9764.4	9808.8	10085.3	10428.4	10595.9	10503.0	10460.7	10244.7	9956.1	9675.6	9661.4
60°	10599.9	10601.9	10961.2	11366.9	11705.9	11768.5	11594.9	11306.3	10932.9	10561.6	10545.4
62.5°	11179.2	11265.9	11720.1	12406.3	13013.8	13364.9	12906.8	12301.3	11566.7	10967.2	10906.7
65°	11298.2	11356.8	12049.0	13211.5	14452.8	15209.6	14150.0	12862.4	11609.0	10809.8	10769.4
67.5°	10335.5	10398.1	11330.5	13114.7	15461.9	17014.0	14957.3	12591.9	10890.5	9901.6	9822.9
70°	7994.3	8065.0	9217.4	11544.5	15237.9	17581.1	14382.1	10983.4	8981.3	7913.6	7770.3
72.5°	4250.5	4510.8	5495.7	7923.7	12367.9	15137.0	11792.7	8014.5	5792.4	4734.8	4545.1
75°	1552.0	1584.3	2133.3	3513.8	7195.1	10379.9	7471.6	3822.6	2197.9	1697.4	1610.6
77.5°	641.8	639.8	702.4	1061.6	2613.7	5316.1	2916.4	1122.2	700.3	647.9	639.8
80°	379.4	379.4	417.8	442.0	688.2	1604.5	769.0	500.5	419.8	383.5	389.5
82.5°	169.5	179.6	264.4	278.5	333.0	440.0	371.4	318.9	274.5	189.7	171.6
85°	92.8	80.7	139.3	145.3	159.4	163.5	175.6	173.6	159.4	92.8	94.9
87.5°	18.2	22.2	40.4	30.3	34.3	30.3	40.4	56.5	58.5	32.3	26.2
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)