

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: P457788

Luminaire Tested: **GALN-SA9A-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457788
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-SA9A-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34552 lumens
Efficiency: N/A
Efficacy: 126.1 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): 274
Input Voltage (V): NR
Input Current (A_{in}): 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

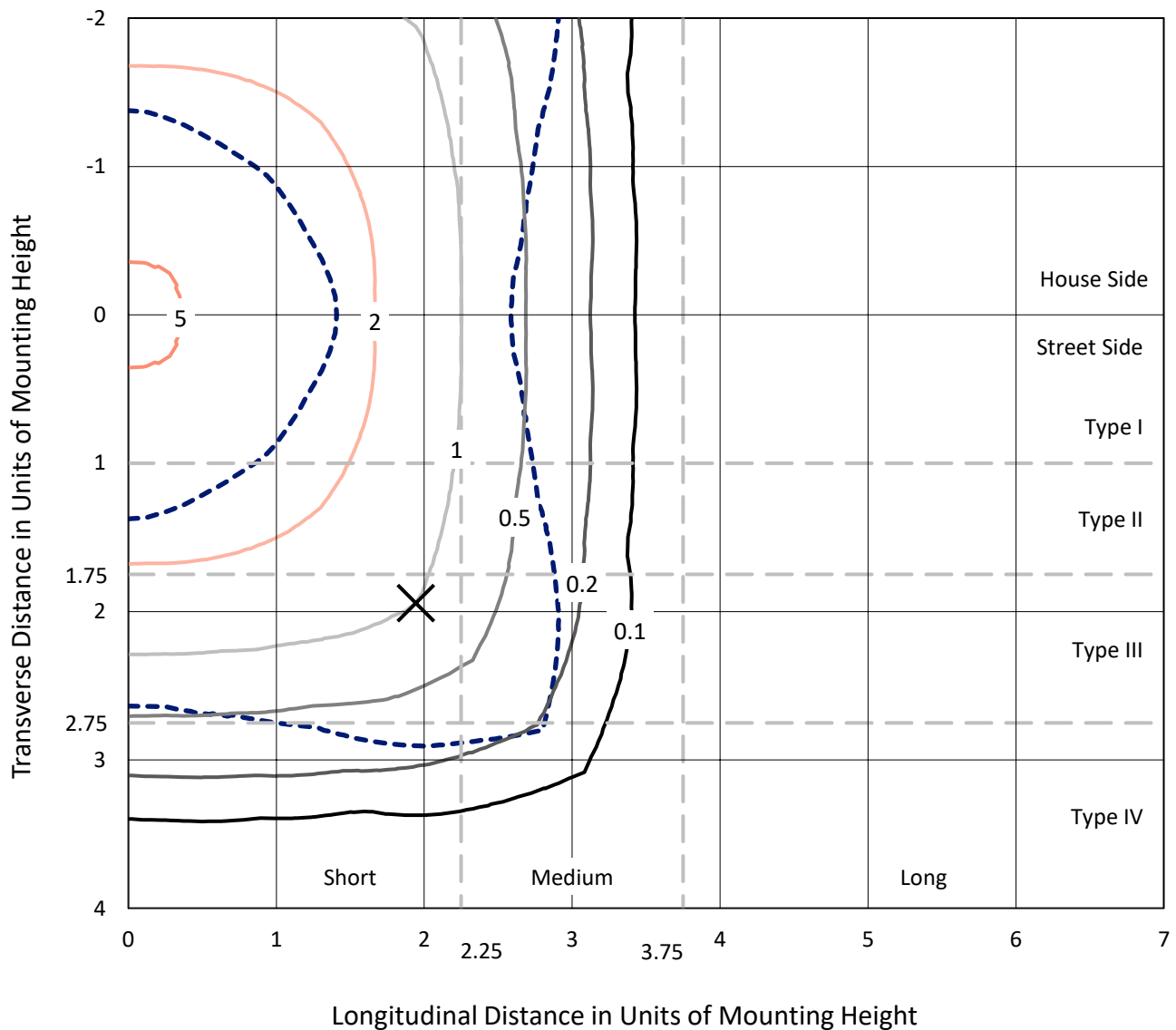


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

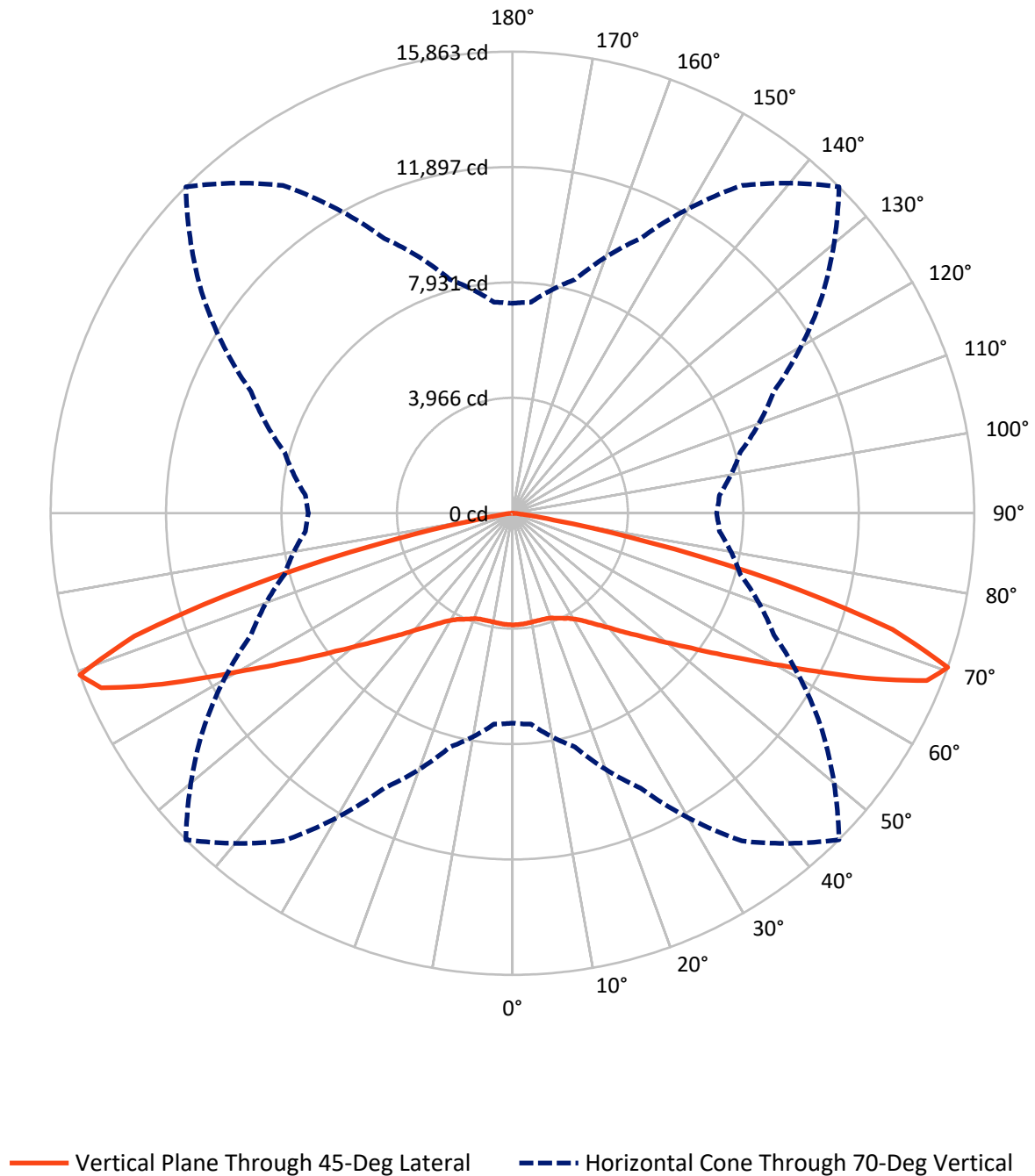


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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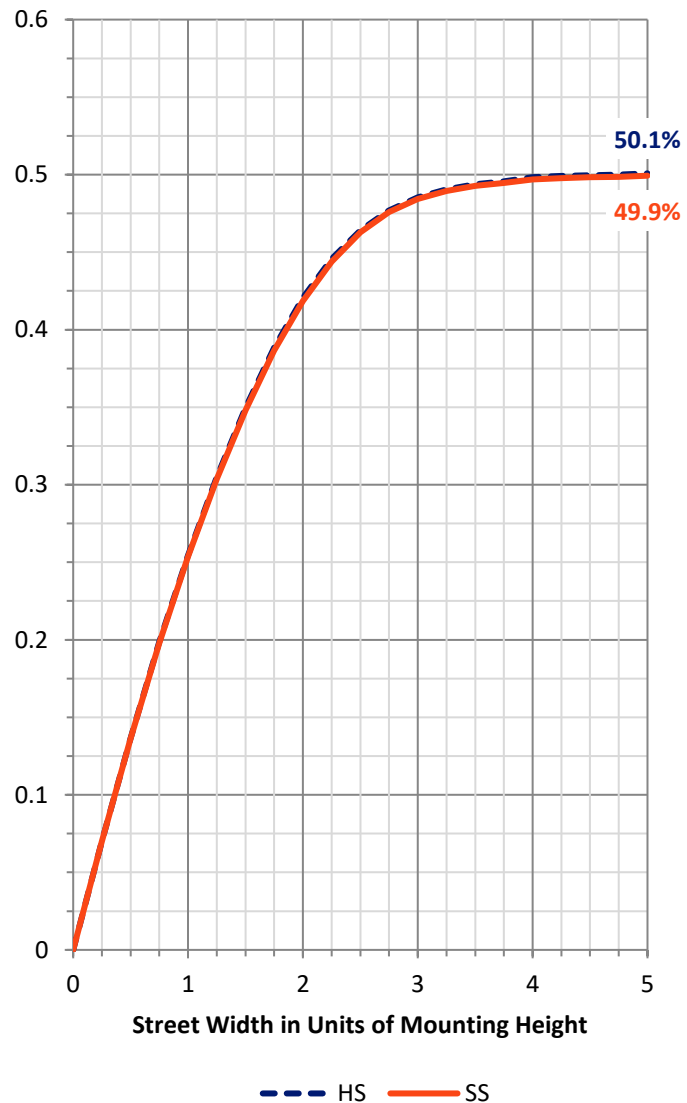
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17276.0	0.0	17276.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17276.0	0.0	17276.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34552.0	0.0	34552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.8	1.1
10°-20°	1067.7	3.1
20°-30°	1826.0	5.3
30°-40°	2898.3	8.4
40°-50°	4675.7	13.5
50°-60°	7607.5	22.0
60°-70°	11028.2	31.9
70°-80°	4891.7	14.2
80°-90°	192.9	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°	34552.0	100.0
0°-180°	34552.0	100.0

Coefficient of Utilization



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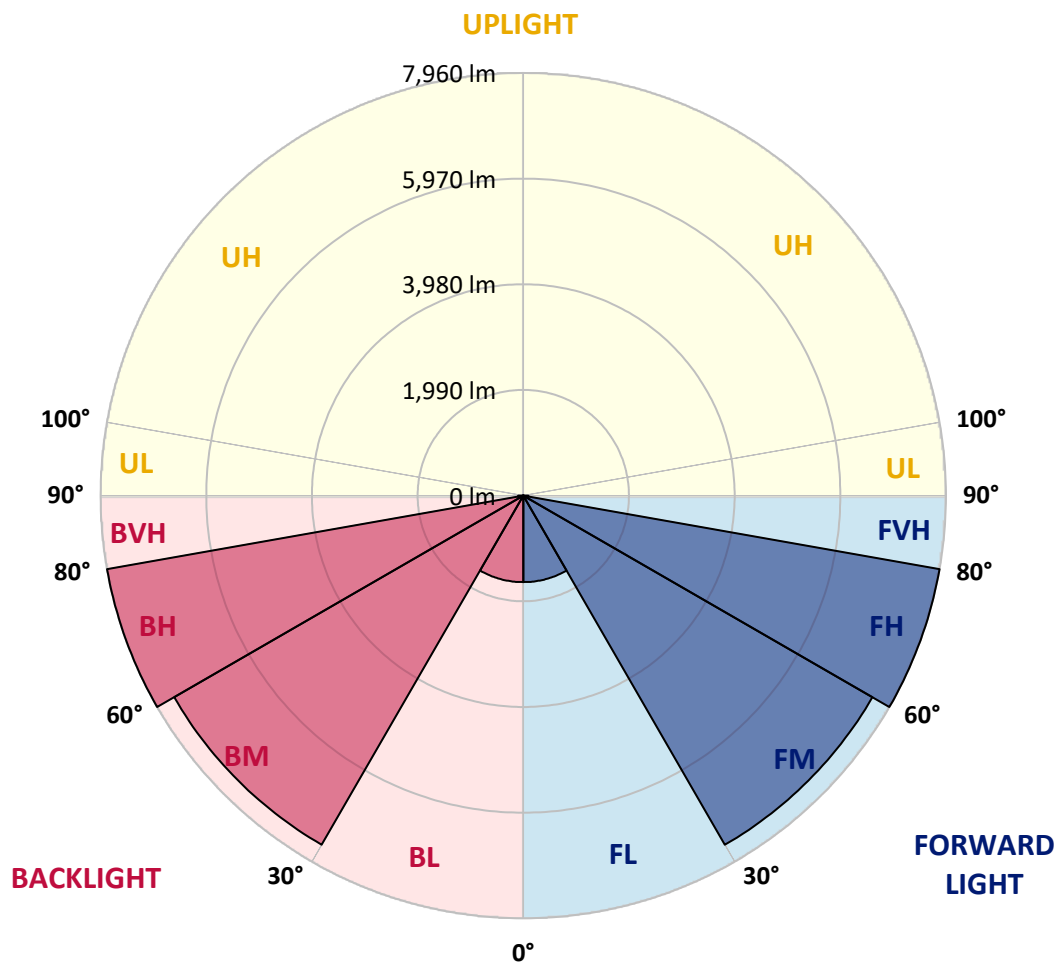
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1628.8	4.7			
FM	(30°-60°)	7590.8	22.0			
FH	(60°-80°)	7960.0	23.0			G4/12000
FVH	(80°-90°)	96.5	0.3			G1/100
BL	(0°-30°)	1628.8	4.7	B3/2500		
BM	(30°-60°)	7590.8	22.0	B4/8500		
BH	(60°-80°)	7960.0	23.0	B5		G4/12000
BVH	(80°-90°)	96.5	0.3			G1/100
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°	3836.8	3836.8	3836.8	3836.8	3836.8	3836.8	3836.8	3836.8	3836.8	3836.8	3836.8
2.5°	3836.8	3840.5	3835.0	3831.4	3829.6	3829.6	3827.7	3829.6	3840.5	3842.3	3836.8
5°	3825.9	3829.6	3827.7	3824.1	3822.3	3822.3	3820.4	3818.6	3827.7	3831.4	3829.6
7.5°	3811.3	3813.2	3811.3	3809.5	3811.3	3809.5	3804.1	3800.4	3807.7	3807.7	3805.9
10°	3785.8	3789.5	3787.7	3789.5	3793.1	3793.1	3785.8	3778.6	3780.4	3776.7	3776.7
12.5°	3754.9	3760.4	3762.2	3769.5	3778.6	3789.5	3773.1	3756.7	3753.1	3751.2	3749.4
15°	3734.9	3740.3	3747.6	3754.9	3771.3	3795.0	3771.3	3745.8	3738.5	3731.2	3727.6
17.5°	3729.4	3736.7	3747.6	3758.5	3780.4	3804.1	3784.0	3758.5	3740.3	3729.4	3725.8
20°	3744.0	3749.4	3765.8	3785.8	3816.8	3840.5	3820.4	3793.1	3765.8	3749.4	3744.0
22.5°	3773.1	3782.2	3802.2	3838.7	3882.4	3917.0	3889.6	3844.1	3800.4	3778.6	3771.3
25°	3836.8	3844.1	3867.8	3917.0	3967.9	4000.7	3971.6	3918.8	3858.7	3829.6	3820.4
27.5°	3933.3	3944.3	3969.8	4028.0	4069.9	4088.1	4068.1	4031.7	3988.0	3957.0	3949.7
30°	4069.9	4082.7	4120.9	4182.8	4210.1	4221.1	4212.0	4188.3	4157.3	4124.6	4117.3
32.5°	4253.8	4261.1	4304.8	4363.1	4388.6	4392.2	4381.3	4370.4	4319.4	4264.8	4261.1
35°	4459.6	4472.4	4525.2	4594.4	4618.0	4619.9	4598.0	4581.6	4521.5	4477.8	4477.8
37.5°	4732.8	4738.2	4789.2	4867.5	4893.0	4885.7	4874.8	4860.2	4796.5	4740.1	4741.9
40°	5053.3	5064.2	5107.9	5198.9	5198.9	5189.8	5197.1	5186.2	5122.5	5067.8	5069.7
42.5°	5433.8	5439.3	5492.1	5588.6	5581.4	5563.1	5570.4	5555.9	5515.8	5453.9	5432.0
45°	5839.9	5861.8	5952.8	6045.7	6031.1	5972.9	6002.0	5998.4	5961.9	5869.1	5874.5
47.5°	6329.8	6366.2	6453.6	6564.7	6548.3	6457.2	6490.0	6511.9	6460.9	6358.9	6340.7
50°	6881.5	6905.2	7034.5	7138.3	7123.7	7027.2	7101.9	7105.5	6978.1	6834.2	6834.2
52.5°	7469.7	7493.4	7668.2	7830.3	7839.4	7699.2	7759.3	7755.6	7548.0	7358.6	7322.2
55°	8128.9	8139.8	8365.7	8604.2	8655.2	8518.6	8525.9	8453.1	8183.6	7963.2	7943.2
57.5°	8810.0	8850.0	9099.5	9409.1	9560.2	9476.5	9438.2	9243.4	8983.0	8729.9	8717.1
60°	9563.9	9565.7	9889.8	10255.8	10561.8	10618.2	10461.6	10201.2	9864.3	9529.3	9514.7
62.5°	10086.5	10164.8	10574.5	11193.7	11741.8	12058.6	11645.3	11099.0	10436.1	9895.3	9840.7
65°	10193.9	10246.7	10871.3	11920.2	13040.1	13723.0	12767.0	11605.2	10474.4	9753.2	9716.8
67.5°	9325.3	9381.8	10223.1	11832.8	13950.6	15351.0	13495.4	11361.2	9826.1	8933.8	8862.8
70°	7213.0	7276.7	8316.5	10416.1	13748.5	15862.7	12976.4	9909.9	8103.4	7140.1	7010.8
72.5°	3835.0	4069.9	4958.6	7149.2	11159.1	13657.5	10640.1	7231.2	5226.3	4272.1	4100.9
75°	1400.3	1429.5	1924.8	3170.4	6491.8	9365.4	6741.3	3449.0	1983.1	1531.5	1453.2
77.5°	579.1	577.3	633.7	957.8	2358.2	4796.5	2631.3	1012.5	631.9	584.5	577.3
80°	342.3	342.3	376.9	398.8	621.0	1447.7	693.8	451.6	378.8	346.0	351.5
82.5°	153.0	162.1	238.6	251.3	300.5	397.0	335.1	287.7	247.7	171.2	154.8
85°	83.8	72.8	125.6	131.1	143.9	147.5	158.4	156.6	143.9	83.8	85.6
87.5°	16.4	20.0	36.4	27.3	31.0	27.3	36.4	51.0	52.8	29.1	23.7
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)