

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: P455468

Luminaire Tested: **GALN-SA6C-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455468
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-SA6C-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34746 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 321
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



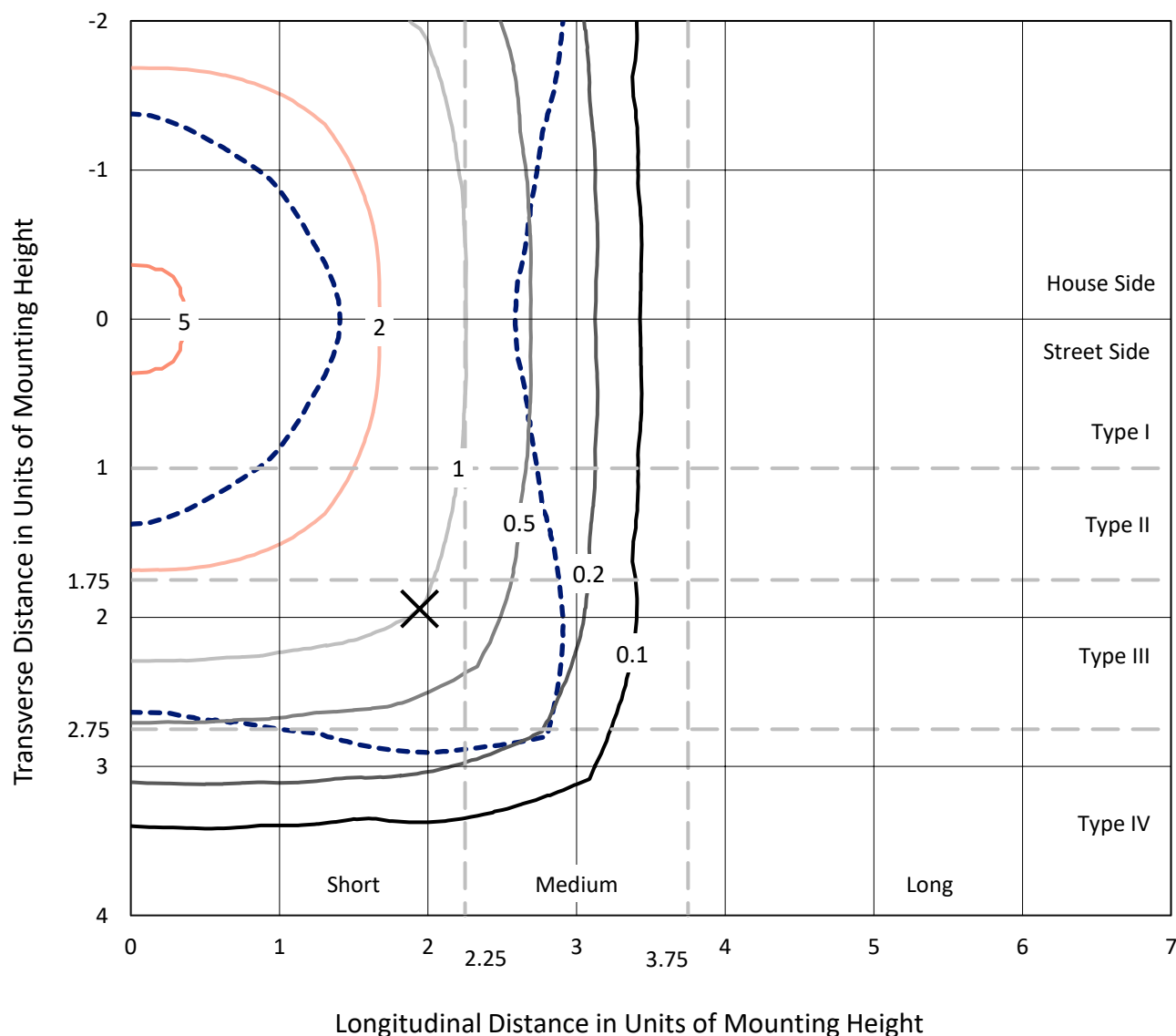
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



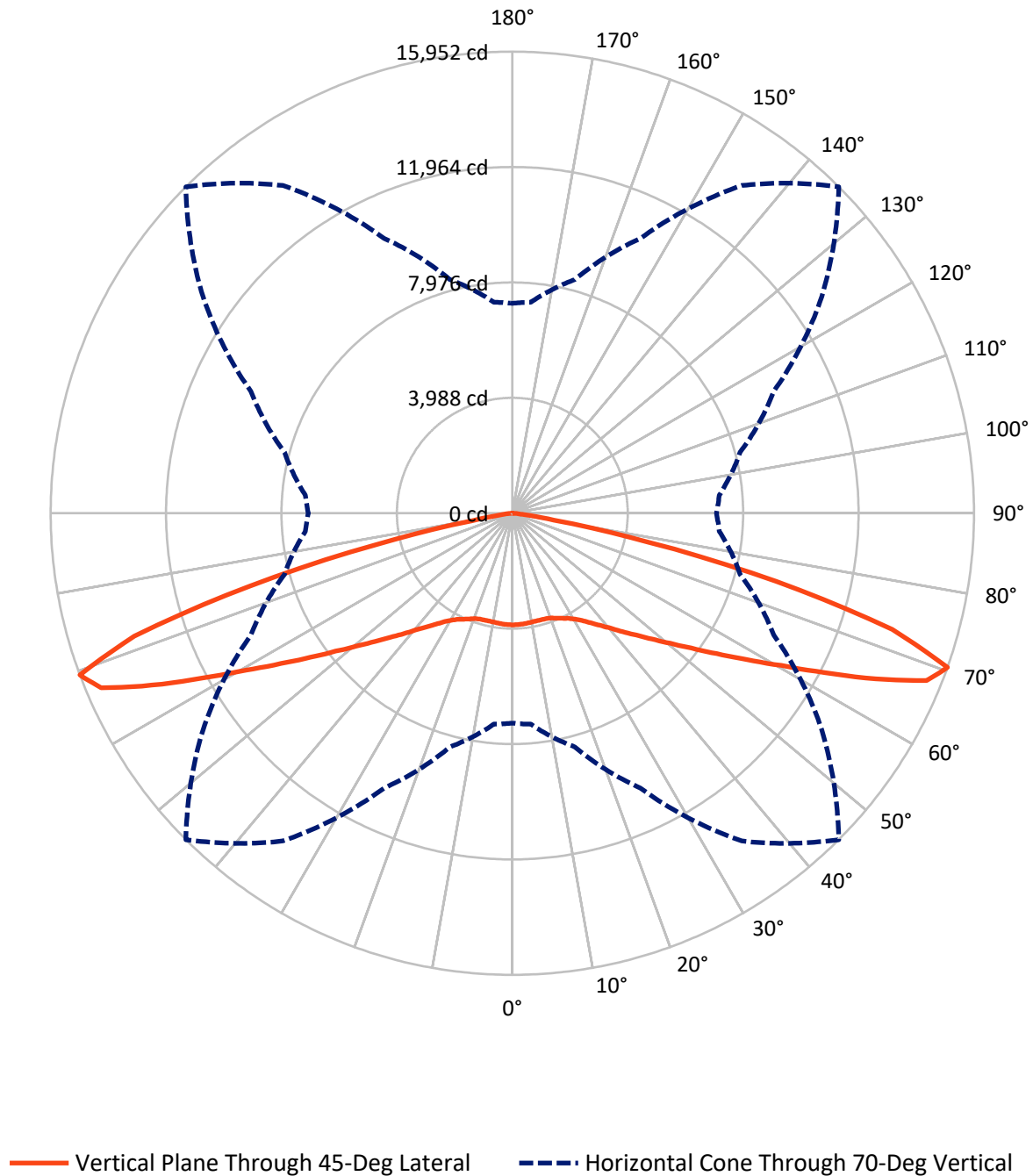
Based on 25 foot mounting height. Maximum calculated value = 6.2 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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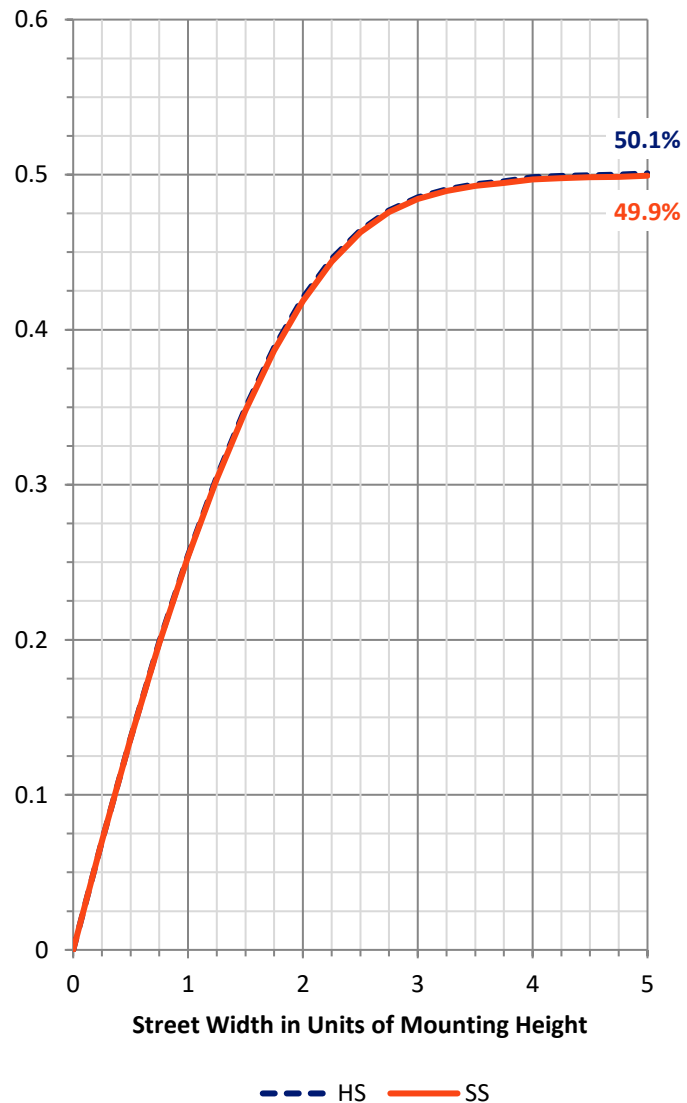
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17373.0	0.0	17373.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17373.0	0.0	17373.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34746.0	0.0	34746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.9	1.1
10°-20°	1073.7	3.1
20°-30°	1836.3	5.3
30°-40°	2914.6	8.4
40°-50°	4702.0	13.5
50°-60°	7650.3	22.0
60°-70°	11090.1	31.9
70°-80°	4919.2	14.2
80°-90°	194.0	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°	34746.0	100.0
0°-180°	34746.0	100.0

Coefficient of Utilization



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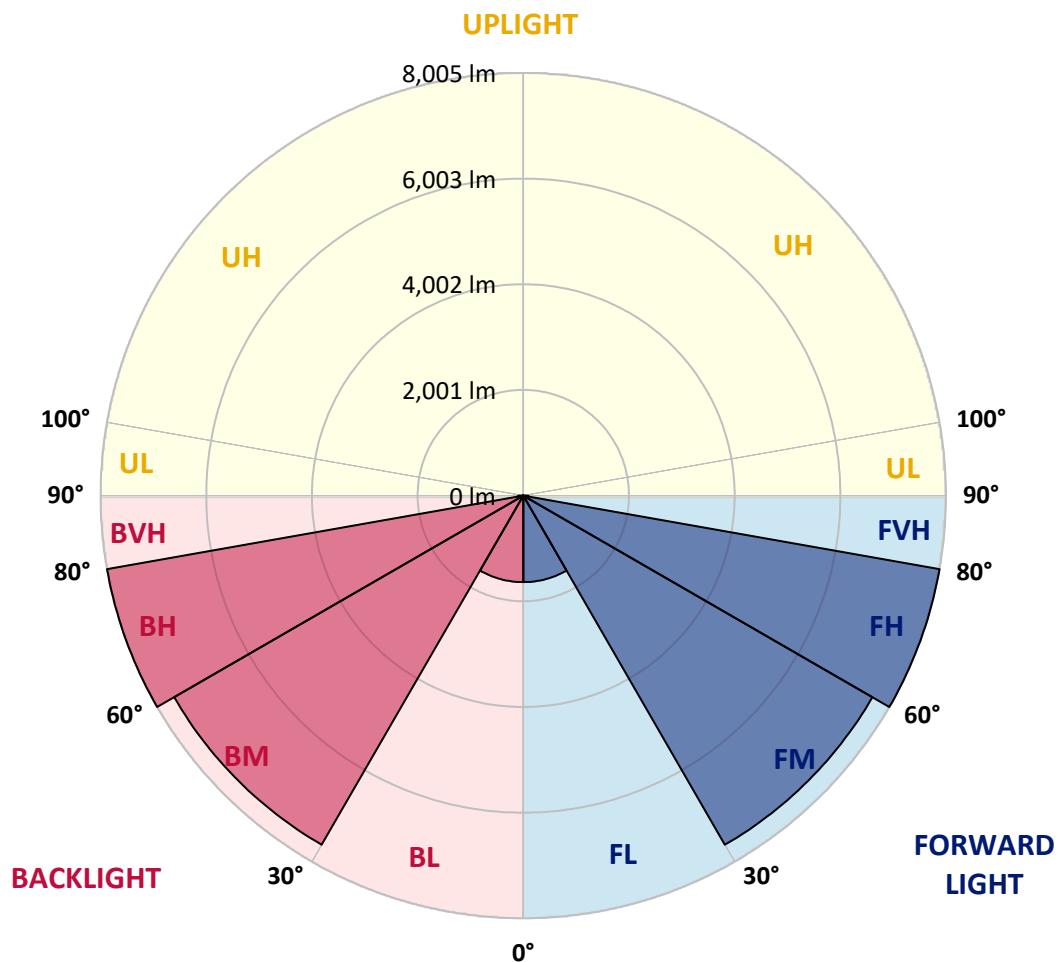
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1637.9	4.7			
FM	(30°-60°)	7633.4	22.0			
FH	(60°-80°)	8004.7	23.0			G4/12000
FVH	(80°-90°)	97.0	0.3			G1/100
BL	(0°-30°)	1637.9	4.7	B3/2500		
BM	(30°-60°)	7633.4	22.0	B4/8500		
BH	(60°-80°)	8004.7	23.0	B5		G4/12000
BVH	(80°-90°)	97.0	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°	3858.4	3858.4	3858.4	3858.4	3858.4	3858.4	3858.4	3858.4	3858.4	3858.4	3858.4
2.5°	3858.4	3862.0	3856.5	3852.9	3851.1	3851.1	3849.2	3851.1	3862.0	3863.9	3858.4
5°	3847.4	3851.1	3849.2	3845.6	3843.7	3843.7	3841.9	3840.1	3849.2	3852.9	3851.1
7.5°	3832.7	3834.6	3832.7	3830.9	3832.7	3830.9	3825.4	3821.8	3829.1	3829.1	3827.2
10°	3807.1	3810.8	3808.9	3810.8	3814.4	3814.4	3807.1	3799.8	3801.6	3797.9	3797.9
12.5°	3776.0	3781.5	3783.3	3790.6	3799.8	3810.8	3794.3	3777.8	3774.1	3772.3	3770.5
15°	3755.8	3761.3	3768.6	3776.0	3792.5	3816.3	3792.5	3766.8	3759.5	3752.2	3748.5
17.5°	3750.3	3757.7	3768.6	3779.6	3801.6	3825.4	3805.3	3779.6	3761.3	3750.3	3746.7
20°	3765.0	3770.5	3787.0	3807.1	3838.2	3862.0	3841.9	3814.4	3787.0	3770.5	3765.0
22.5°	3794.3	3803.4	3823.6	3860.2	3904.2	3939.0	3911.5	3865.7	3821.8	3799.8	3792.5
25°	3858.4	3865.7	3889.5	3939.0	3990.2	4023.2	3993.9	3940.8	3880.4	3851.1	3841.9
27.5°	3955.4	3966.4	3992.1	4050.7	4092.8	4111.1	4090.9	4054.3	4010.4	3979.2	3971.9
30°	4092.8	4105.6	4144.0	4206.3	4233.8	4244.8	4235.6	4211.8	4180.7	4147.7	4140.4
32.5°	4277.7	4285.1	4329.0	4387.6	4413.2	4416.9	4405.9	4394.9	4343.7	4288.7	4285.1
35°	4484.7	4497.5	4550.6	4620.2	4644.0	4645.8	4623.8	4607.3	4546.9	4503.0	4503.0
37.5°	4759.3	4764.8	4816.1	4894.8	4920.5	4913.2	4902.2	4887.5	4823.4	4766.7	4768.5
40°	5081.6	5092.6	5136.6	5228.1	5228.1	5219.0	5226.3	5215.3	5151.2	5096.3	5098.1
42.5°	5464.4	5469.9	5523.0	5620.0	5612.7	5594.4	5601.7	5587.1	5546.8	5484.5	5462.5
45°	5872.7	5894.7	5986.3	6079.6	6065.0	6006.4	6035.7	6032.0	5995.4	5902.0	5907.5
47.5°	6365.3	6401.9	6489.8	6601.5	6585.1	6493.5	6526.5	6548.4	6497.2	6394.6	6376.3
50°	6920.2	6944.0	7074.0	7178.4	7163.7	7066.7	7141.8	7145.4	7017.2	6872.6	6872.6
52.5°	7511.7	7535.5	7711.3	7874.2	7883.4	7742.4	7802.8	7799.2	7590.4	7400.0	7363.3
55°	8174.6	8185.6	8412.6	8652.5	8703.8	8566.4	8573.8	8500.5	8229.5	8007.9	7987.8
57.5°	8859.4	8899.7	9150.6	9461.9	9613.9	9529.7	9491.2	9295.3	9033.4	8778.9	8766.0
60°	9617.6	9619.4	9945.4	10313.4	10621.1	10677.8	10520.4	10258.5	9919.7	9582.8	9568.1
62.5°	10143.1	10221.9	10633.9	11256.5	11807.7	12126.3	11710.6	11161.3	10494.7	9950.8	9895.9
65°	10251.2	10304.3	10932.4	11987.2	13113.4	13800.1	12838.7	11670.4	10533.2	9808.0	9771.4
67.5°	9377.7	9434.4	10280.5	11899.3	14029.0	15437.2	13571.2	11425.0	9881.3	8984.0	8912.5
70°	7253.5	7317.6	8363.2	10474.6	13825.7	15951.8	13049.3	9965.5	8148.9	7180.2	7050.2
72.5°	3856.5	4092.8	4986.4	7189.4	11221.7	13734.1	10699.8	7271.8	5255.6	4296.0	4123.9
75°	1408.2	1437.5	1935.6	3188.2	6528.3	9418.0	6779.2	3468.3	1994.2	1540.1	1461.3
77.5°	582.3	580.5	637.3	963.2	2371.4	4823.4	2646.1	1018.2	635.4	587.8	580.5
80°	344.3	344.3	379.1	401.0	624.4	1455.8	697.7	454.1	380.9	347.9	353.4
82.5°	153.8	163.0	239.9	252.7	302.2	399.2	336.9	289.3	249.0	172.1	155.7
85°	84.2	73.2	126.4	131.8	144.7	148.3	159.3	157.5	144.7	84.2	86.1
87.5°	16.5	20.1	36.6	27.5	31.1	27.5	36.6	51.3	53.1	29.3	23.8
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)