

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: P456860

Luminaire Tested: **GALN-SA8A-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456860
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-SA8A-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 30777 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 - G3

Input Watts (W): 244
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

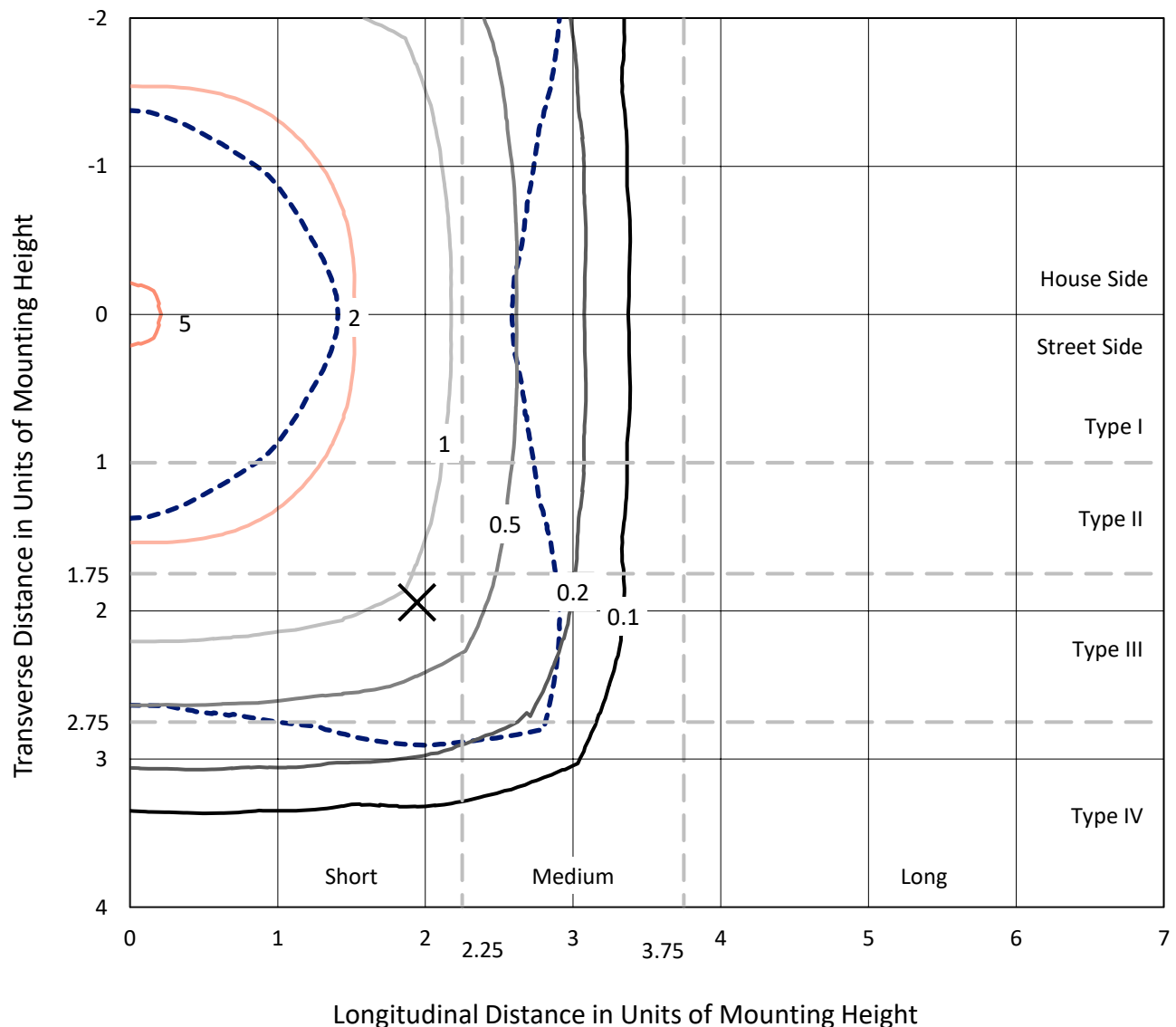


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

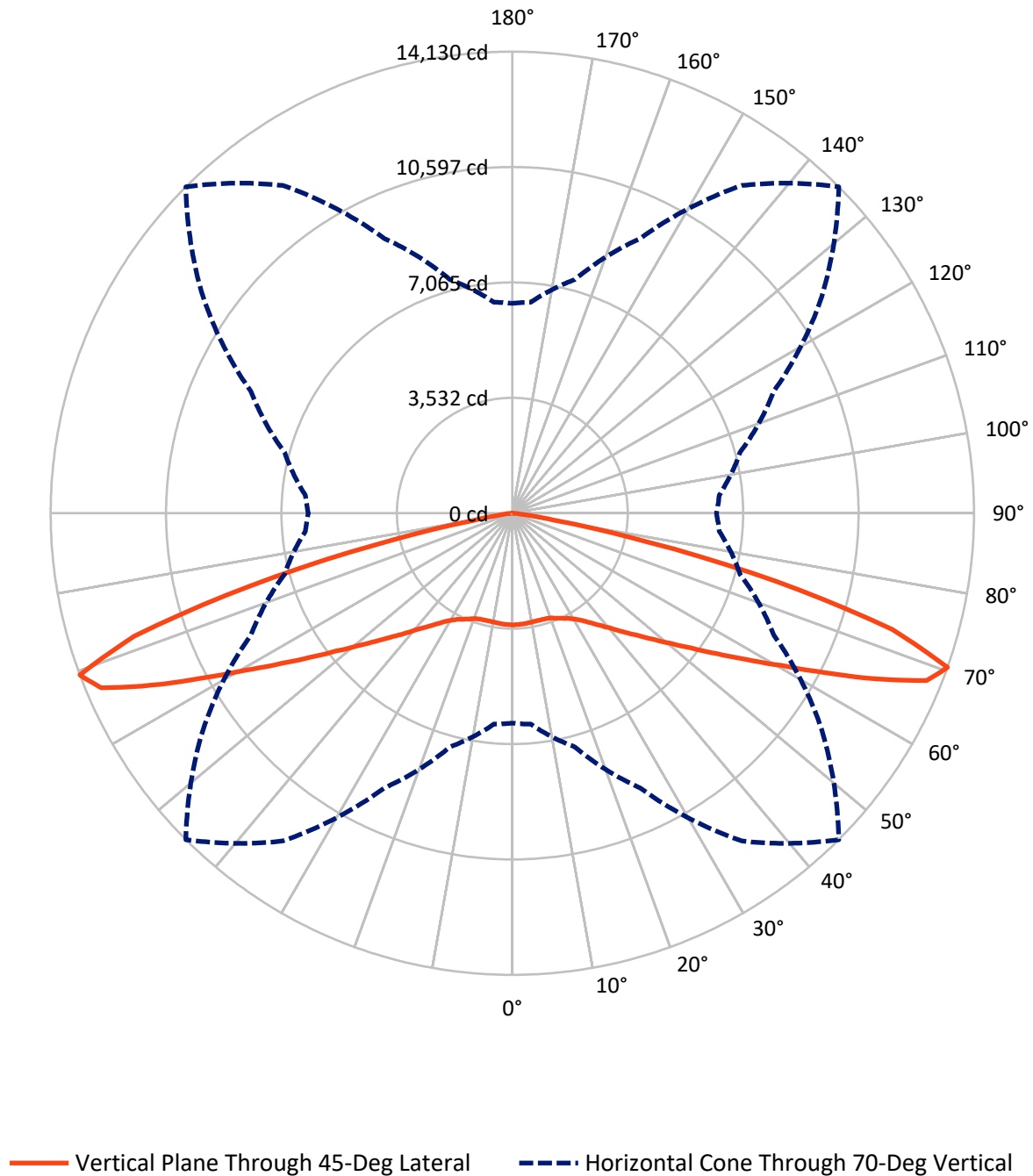


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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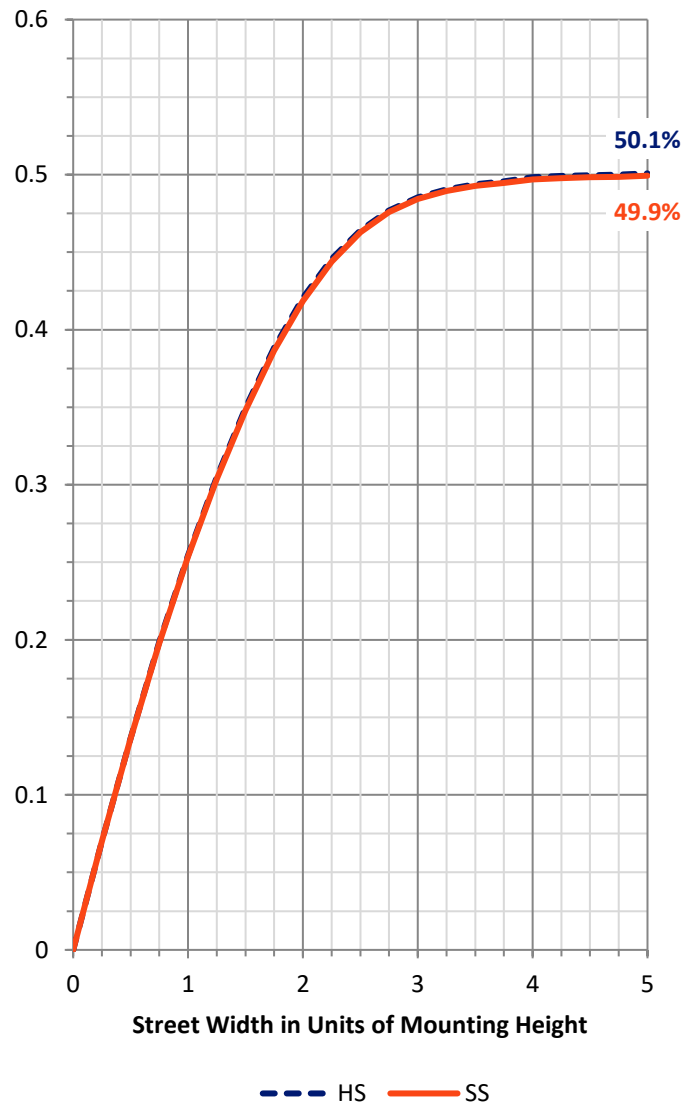
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15388.5	0.0	15388.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15388.5	0.0	15388.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30777.0	0.0	30777.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.1	1.1
10°-20°	951.0	3.1
20°-30°	1626.5	5.3
30°-40°	2581.7	8.4
40°-50°	4164.9	13.5
50°-60°	6776.4	22.0
60°-70°	9823.3	31.9
70°-80°	4357.3	14.2
80°-90°	171.8	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°	30777.0	100.0
0°-180°	30777.0	100.0

Coefficient of Utilization



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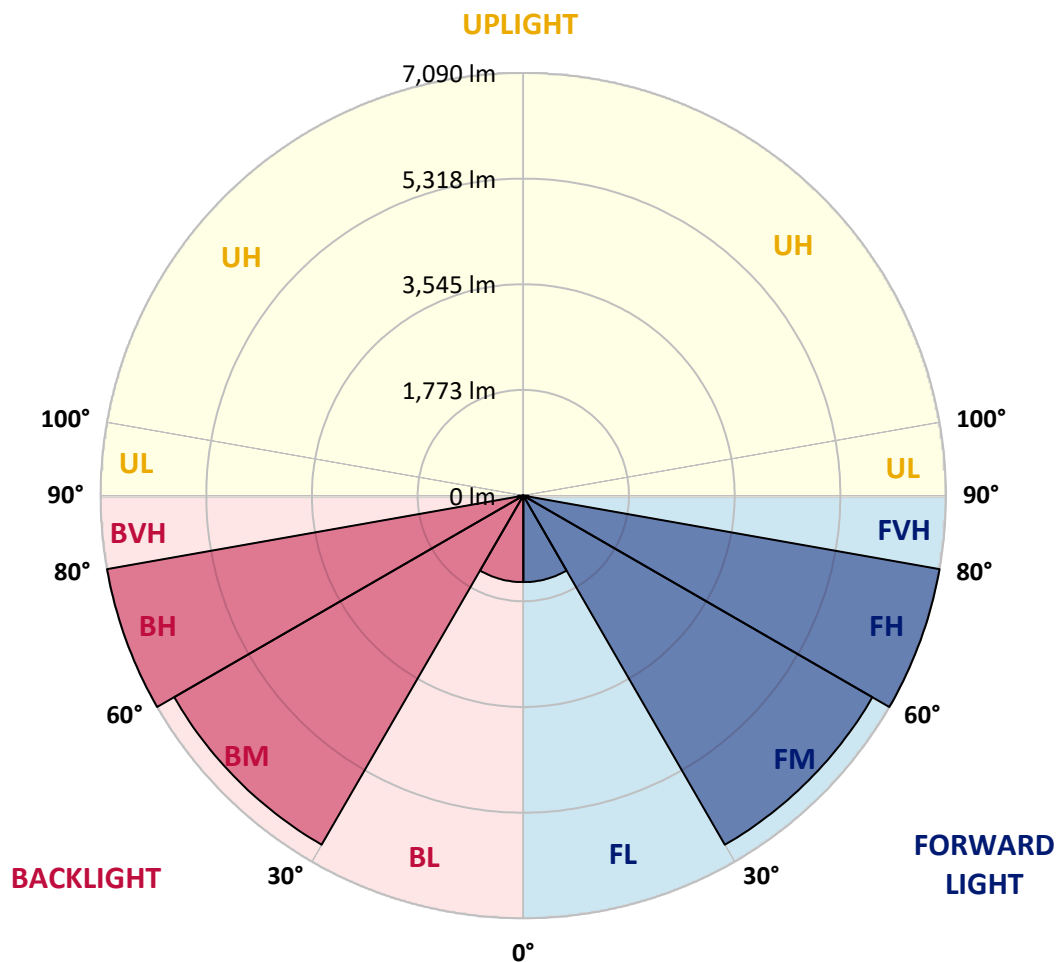
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1450.8	4.7			
FM	(30°-60°)	6761.5	22.0			
FH	(60°-80°)	7090.3	23.0			G3/7500
FVH	(80°-90°)	85.9	0.3			G1/100
BL	(0°-30°)	1450.8	4.7	B3/2500		
BM	(30°-60°)	6761.5	22.0	B4/8500		
BH	(60°-80°)	7090.3	23.0	B5		G3/7500
BVH	(80°-90°)	85.9	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3417.6	3417.6	3417.6	3417.6	3417.6	3417.6	3417.6	3417.6	3417.6	3417.6	3417.6
2.5°	3417.6	3420.9	3416.0	3412.8	3411.2	3411.2	3409.5	3411.2	3420.9	3422.5	3417.6
5°	3407.9	3411.2	3409.5	3406.3	3404.7	3404.7	3403.0	3401.4	3409.5	3412.8	3411.2
7.5°	3394.9	3396.6	3394.9	3393.3	3394.9	3393.3	3388.4	3385.2	3391.7	3391.7	3390.1
10°	3372.2	3375.5	3373.8	3375.5	3378.7	3378.7	3372.2	3365.7	3367.4	3364.1	3364.1
12.5°	3344.6	3349.5	3351.1	3357.6	3365.7	3375.5	3360.9	3346.3	3343.0	3341.4	3339.8
15°	3326.8	3331.7	3338.2	3344.6	3359.2	3380.3	3359.2	3336.5	3330.1	3323.6	3320.3
17.5°	3321.9	3328.4	3338.2	3347.9	3367.4	3388.4	3370.6	3347.9	3331.7	3321.9	3318.7
20°	3334.9	3339.8	3354.4	3372.2	3399.8	3420.9	3403.0	3378.7	3354.4	3339.8	3334.9
22.5°	3360.9	3369.0	3386.8	3419.3	3458.2	3489.0	3464.7	3424.1	3385.2	3365.7	3359.2
25°	3417.6	3424.1	3445.2	3489.0	3534.4	3563.6	3537.7	3490.6	3437.1	3411.2	3403.0
27.5°	3503.6	3513.3	3536.0	3588.0	3625.3	3641.5	3623.6	3591.2	3552.3	3524.7	3518.2
30°	3625.3	3636.6	3670.7	3725.8	3750.2	3759.9	3751.8	3730.7	3703.1	3673.9	3667.4
32.5°	3789.1	3795.6	3834.5	3886.4	3909.1	3912.4	3902.6	3892.9	3847.5	3798.8	3795.6
35°	3972.4	3983.7	4030.8	4092.4	4113.5	4115.1	4095.7	4081.1	4027.5	3988.6	3988.6
37.5°	4215.7	4220.6	4266.0	4335.7	4358.4	4351.9	4342.2	4329.2	4272.5	4222.2	4223.8
40°	4501.2	4510.9	4549.8	4630.9	4630.9	4622.8	4629.3	4619.6	4562.8	4514.1	4515.8
42.5°	4840.2	4845.0	4892.1	4978.0	4971.6	4955.3	4961.8	4948.8	4913.2	4858.0	4838.5
45°	5201.9	5221.4	5302.5	5385.2	5372.2	5320.3	5346.2	5343.0	5310.6	5227.8	5232.7
47.5°	5638.2	5670.7	5748.5	5847.5	5832.9	5751.8	5781.0	5800.4	5755.0	5664.2	5647.9
50°	6129.7	6150.8	6265.9	6358.4	6345.4	6259.5	6326.0	6329.2	6215.7	6087.5	6087.5
52.5°	6653.6	6674.7	6830.4	6974.8	6982.9	6858.0	6911.5	6908.3	6723.4	6554.7	6522.2
55°	7240.8	7250.5	7451.7	7664.1	7709.6	7587.9	7594.4	7529.5	7289.5	7093.2	7075.3
57.5°	7847.4	7883.1	8105.3	8381.1	8515.7	8441.1	8407.0	8233.5	8001.5	7776.1	7764.7
60°	8519.0	8520.6	8809.3	9135.3	9407.8	9458.1	9318.6	9086.7	8786.6	8488.1	8475.2
62.5°	8984.5	9054.2	9419.2	9970.7	10458.9	10741.2	10373.0	9886.3	9295.9	8814.2	8765.5
65°	9080.2	9127.2	9683.6	10617.9	11615.4	12223.7	11372.1	10337.3	9330.0	8687.7	8655.2
67.5°	8306.5	8356.8	9106.1	10540.0	12426.5	13673.8	12020.9	10119.9	8752.5	7957.7	7894.5
70°	6424.9	6481.7	7407.9	9278.1	12246.4	14129.6	11558.7	8827.1	7218.1	6360.0	6244.9
72.5°	3416.0	3625.3	4416.8	6368.1	9939.9	12165.3	9477.6	6441.1	4655.3	3805.3	3652.8
75°	1247.3	1273.3	1714.5	2824.0	5782.6	8342.2	6004.8	3072.1	1766.4	1364.1	1294.4
77.5°	515.8	514.2	564.5	853.2	2100.5	4272.5	2343.8	901.9	562.8	520.7	514.2
80°	304.9	304.9	335.8	355.2	553.1	1289.5	618.0	402.3	337.4	308.2	313.1
82.5°	136.3	144.4	212.5	223.8	267.6	353.6	298.5	256.3	220.6	152.5	137.9
85°	74.6	64.9	111.9	116.8	128.1	131.4	141.1	139.5	128.1	74.6	76.2
87.5°	14.6	17.8	32.4	24.3	27.6	24.3	32.4	45.4	47.0	26.0	21.1
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)