

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: P458022

Luminaire Tested: **GALN-SA9B-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42902 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 364
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

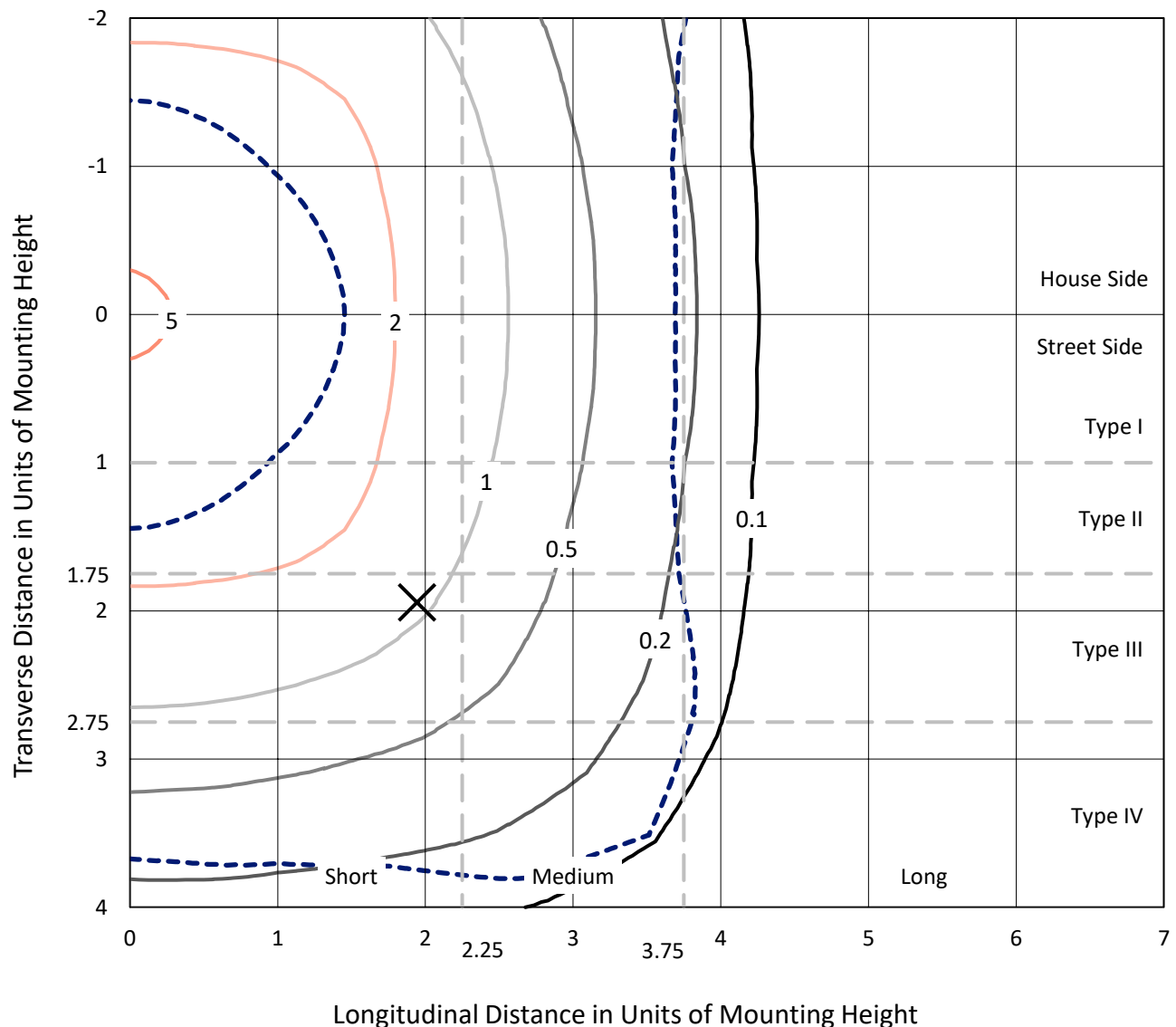


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

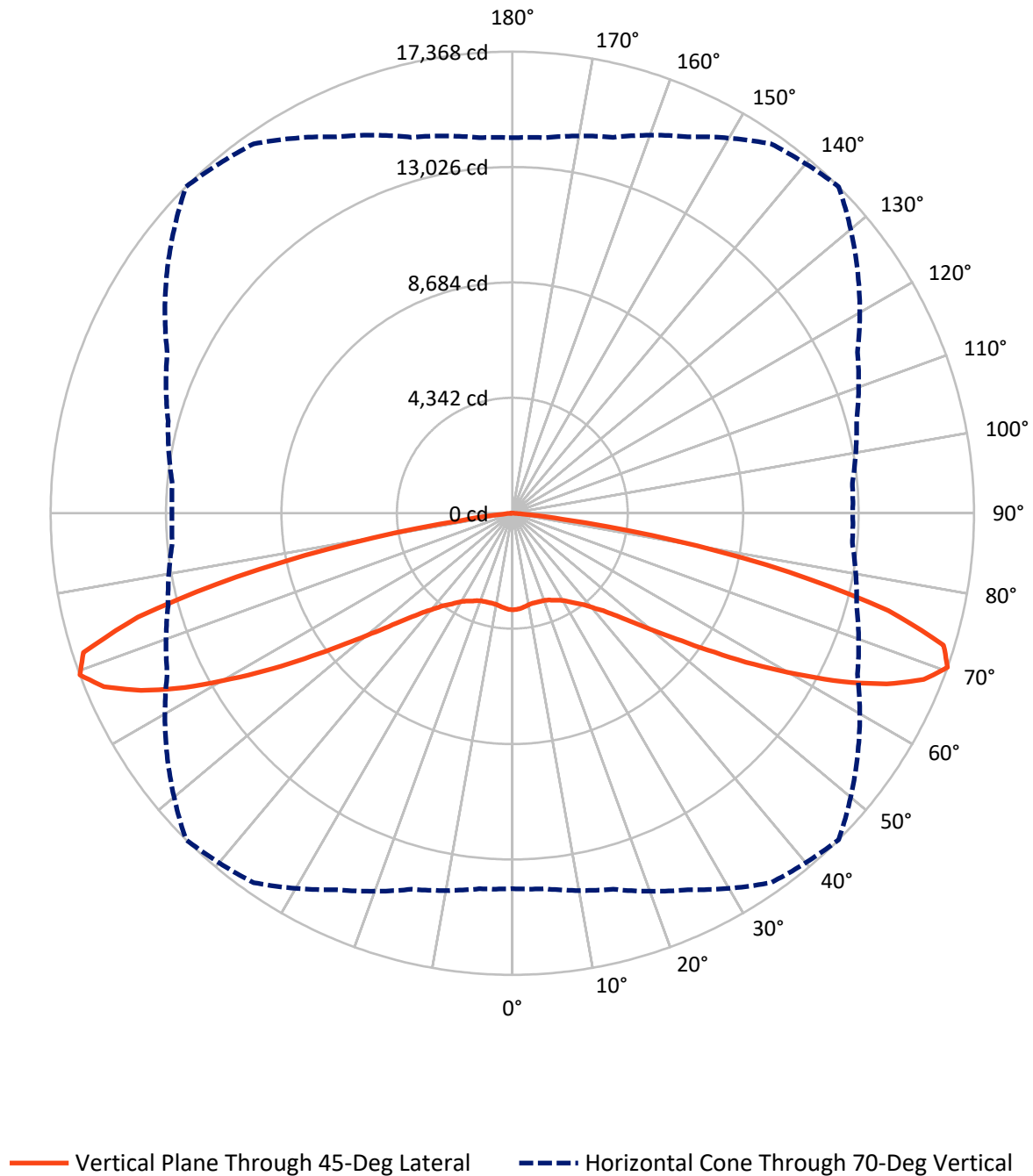


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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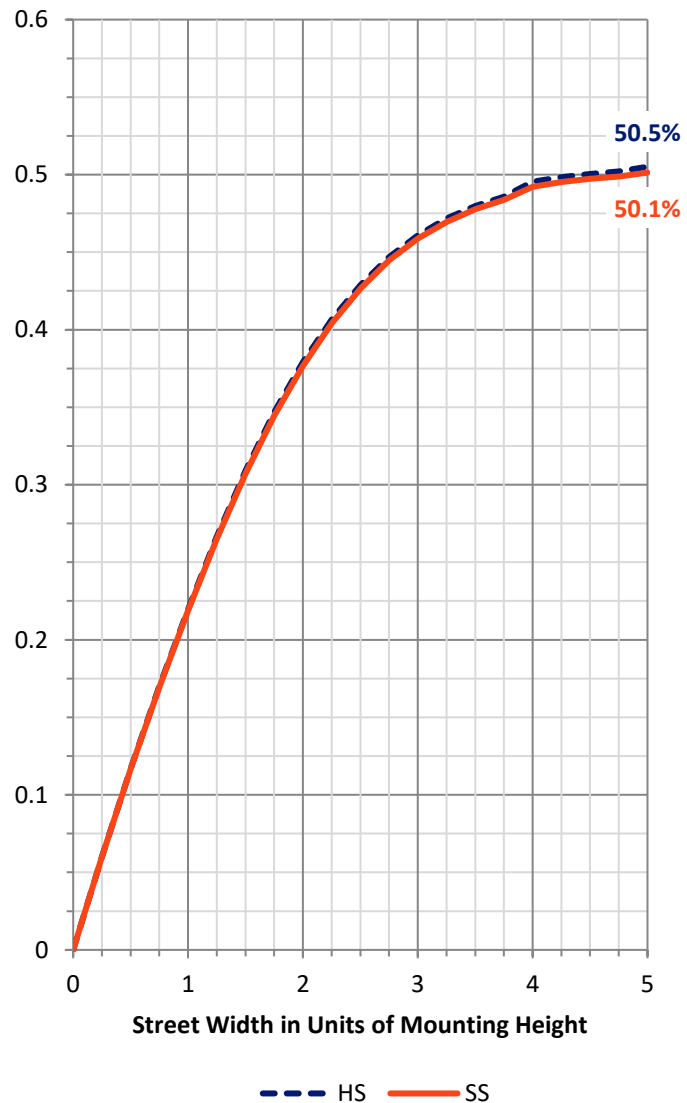
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21451.0	0.0	21451.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21451.0	0.0	21451.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	42902.0	0.0	42902.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.7	0.8
10°-20°	994.4	2.3
20°-30°	1694.3	3.9
30°-40°	2626.1	6.1
40°-50°	4420.1	10.3
50°-60°	8042.1	18.7
60°-70°	13615.2	31.7
70°-80°	10538.7	24.6
80°-90°	631.5	1.5
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°	42902.0	100.0
0°-180°	42902.0	100.0

Coefficient of Utilization



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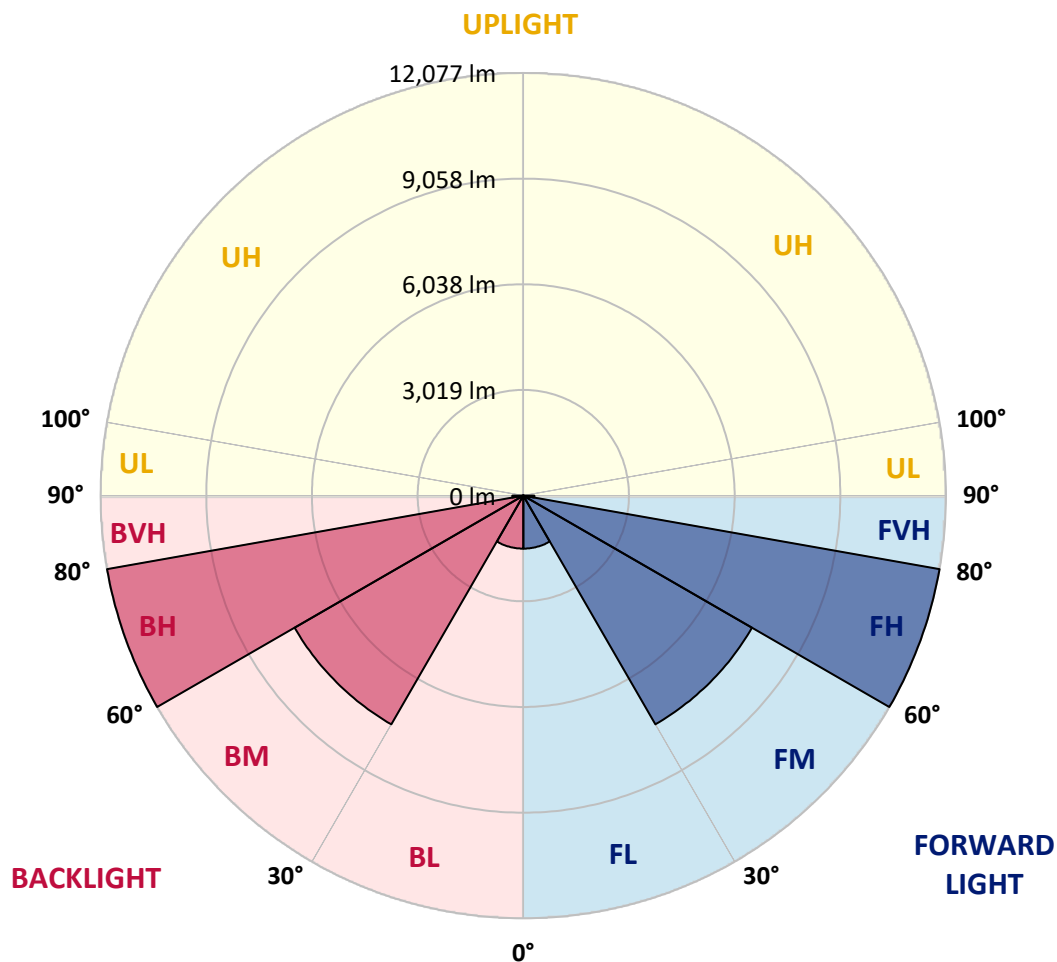
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1514.2	3.5			
FM	(30°-60°)	7544.2	17.6			
FH	(60°-80°)	12076.9	28.1			G5
FVH	(80°-90°)	315.7	0.7			G3/500
BL	(0°-30°)	1514.2	3.5	B3/2500		
BM	(30°-60°)	7544.2	17.6	B4/8500		
BH	(60°-80°)	12076.9	28.1	B5		G5
BVH	(80°-90°)	315.7	0.7			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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2
2.5°	3623.1	3625.4	3625.4	3620.9	3618.6	3618.6	3616.3	3616.3	3623.1	3625.4	3627.6
5°	3591.4	3591.4	3591.4	3589.1	3584.6	3584.6	3580.1	3580.1	3582.3	3589.1	3584.6
7.5°	3548.3	3552.9	3552.9	3543.8	3537.0	3537.0	3534.7	3537.0	3539.3	3546.1	3543.8
10°	3534.7	3537.0	3525.7	3509.8	3498.5	3491.7	3494.0	3498.5	3509.8	3514.4	3516.6
12.5°	3543.8	3543.8	3523.4	3500.8	3480.4	3471.3	3469.0	3484.9	3505.3	3518.9	3523.4
15°	3555.1	3550.6	3525.7	3496.2	3475.8	3473.6	3471.3	3482.6	3512.1	3539.3	3541.5
17.5°	3561.9	3559.7	3527.9	3491.7	3480.4	3480.4	3478.1	3487.2	3518.9	3552.9	3555.1
20°	3584.6	3577.8	3541.5	3503.0	3494.0	3498.5	3491.7	3503.0	3537.0	3577.8	3586.9
22.5°	3629.9	3623.1	3586.9	3548.3	3543.8	3543.8	3541.5	3552.9	3589.1	3632.2	3639.0
25°	3684.3	3677.5	3643.5	3616.3	3620.9	3629.9	3625.4	3627.6	3657.1	3693.4	3704.7
27.5°	3756.8	3745.5	3716.0	3693.4	3707.0	3707.0	3707.0	3704.7	3722.8	3756.8	3768.1
30°	3845.2	3840.6	3808.9	3806.7	3818.0	3806.7	3806.7	3808.9	3811.2	3842.9	3854.2
32.5°	3960.7	3951.7	3935.8	3931.3	3963.0	3972.1	3940.3	3910.9	3926.7	3958.5	3965.3
35°	4151.1	4137.5	4114.8	4089.9	4114.8	4157.9	4089.9	4067.2	4108.0	4151.1	4155.6
37.5°	4409.4	4402.6	4366.3	4321.0	4318.7	4364.1	4293.8	4291.5	4368.6	4420.7	4427.5
40°	4733.4	4740.2	4694.9	4651.8	4629.2	4665.4	4611.0	4631.4	4706.2	4765.1	4760.6
42.5°	5188.8	5163.9	5093.7	5052.9	5028.0	5014.4	5000.8	5032.5	5116.3	5179.8	5229.6
45°	5721.3	5712.2	5623.9	5574.0	5519.6	5499.3	5494.7	5551.4	5653.3	5730.4	5737.2
47.5°	6324.0	6303.6	6247.0	6194.9	6174.5	6149.6	6126.9	6169.9	6271.9	6326.3	6342.2
50°	6944.9	6949.4	6949.4	6940.3	6960.7	6965.3	6904.1	6919.9	6976.6	6972.1	6967.5
52.5°	7654.1	7679.0	7796.8	7808.2	7905.6	7971.3	7860.3	7794.6	7774.2	7651.8	7660.9
55°	8487.9	8510.6	8687.3	8864.1	9126.9	9237.9	9004.5	8800.6	8655.6	8469.8	8478.9
57.5°	9528.0	9539.3	9707.0	10046.8	10463.8	10724.3	10314.2	9910.9	9616.3	9439.6	9369.3
60°	10647.3	10658.6	10903.3	11318.0	11966.0	12283.2	11775.7	11116.3	10744.7	10475.1	10493.2
62.5°	11991.0	12036.3	12256.1	12827.1	13613.3	13969.1	13296.1	12414.7	11911.6	11576.3	11589.9
65°	13429.8	13506.8	13747.0	14374.6	15099.7	15482.6	14657.9	13640.5	13015.1	12605.0	12648.1
67.5°	14363.3	14431.3	14778.0	15471.3	16375.4	16692.6	15627.7	14442.6	13660.9	13171.5	13080.8
70°	14125.4	14182.0	14644.3	15627.7	16966.8	17367.8	15858.8	14324.8	13404.9	12840.7	12804.4
72.5°	12469.0	12351.2	13026.5	14438.1	16291.6	16964.5	15131.4	13083.1	11925.2	11345.2	11277.2
75°	8263.6	8519.6	9516.6	11179.8	13783.2	14617.1	12915.4	10504.5	9047.6	8565.0	8490.2
77.5°	2762.1	2959.2	3845.2	6337.6	9396.5	10649.6	9410.1	6870.1	4860.3	3915.4	3933.5
80°	731.9	722.8	935.8	1742.4	4060.4	6167.7	4726.6	2327.0	1273.4	922.2	874.6
82.5°	262.8	294.6	378.4	482.6	1076.3	1916.9	1352.7	652.6	478.1	353.5	342.1
85°	115.6	113.3	163.1	192.6	269.6	358.0	317.2	276.4	242.4	160.9	149.5
87.5°	24.9	24.9	38.5	29.5	47.6	47.6	58.9	70.2	72.5	47.6	38.5
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)