

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: P456401

Luminaire Tested: **GALN-SA7C-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40147 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 377
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

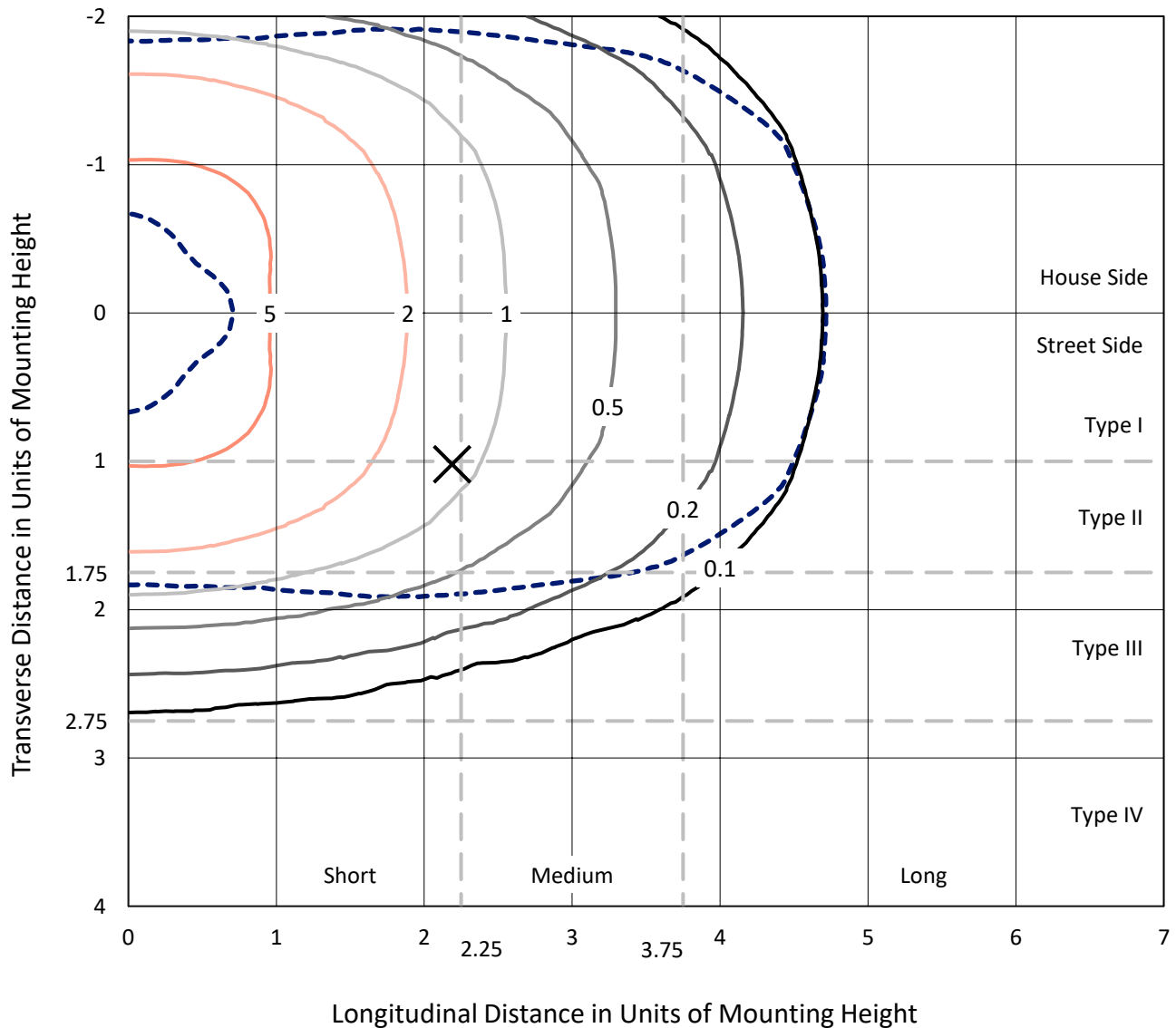


REPORT NUMBER: P456401

CATALOG NUMBER: GALN-SA7C-830-U-RW

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

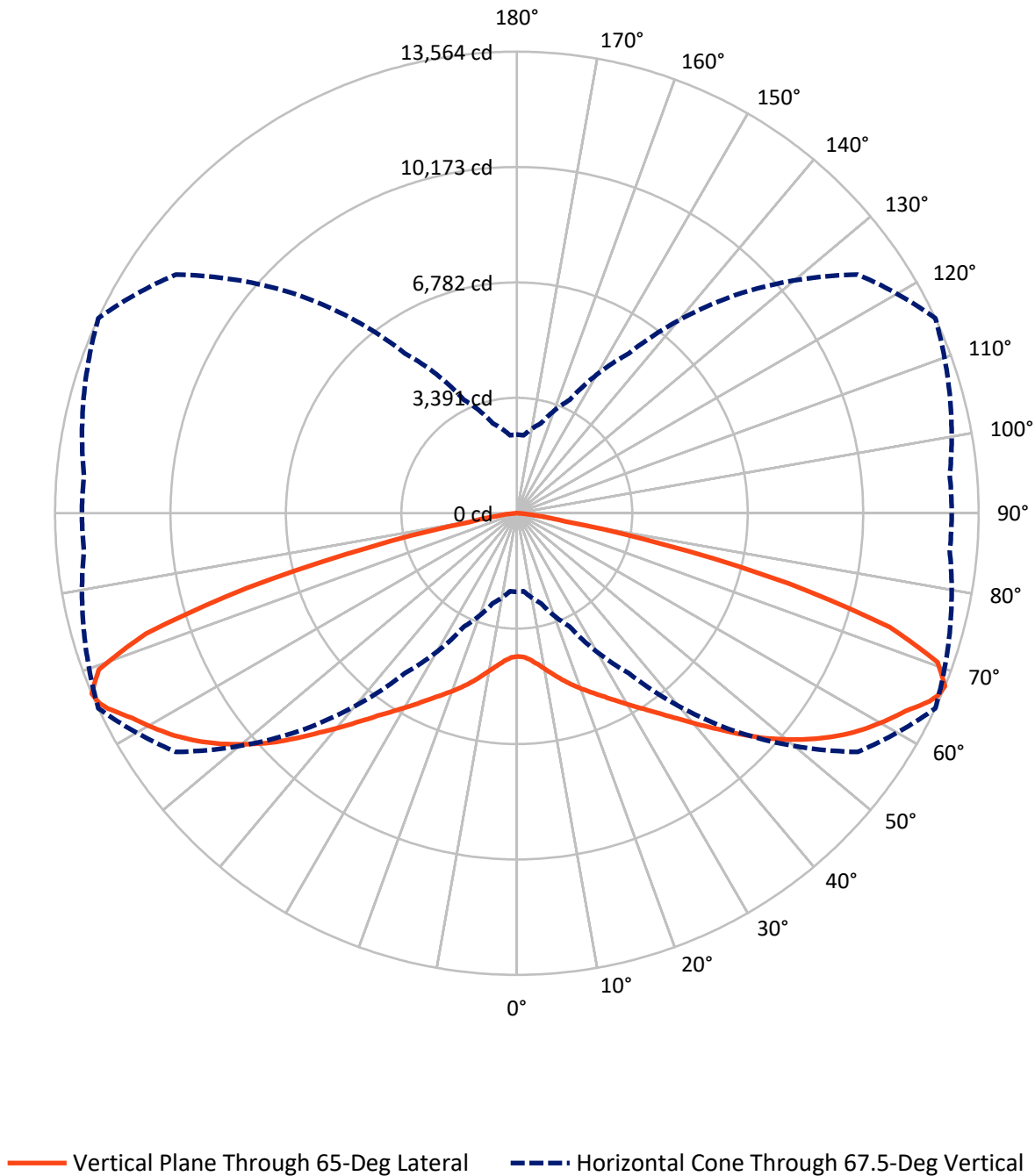


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - N/A

REPORT NUMBER: P456401

CATALOG NUMBER: GALN-SA7C-830-U-RW

Luminous Intensity Polar Plot



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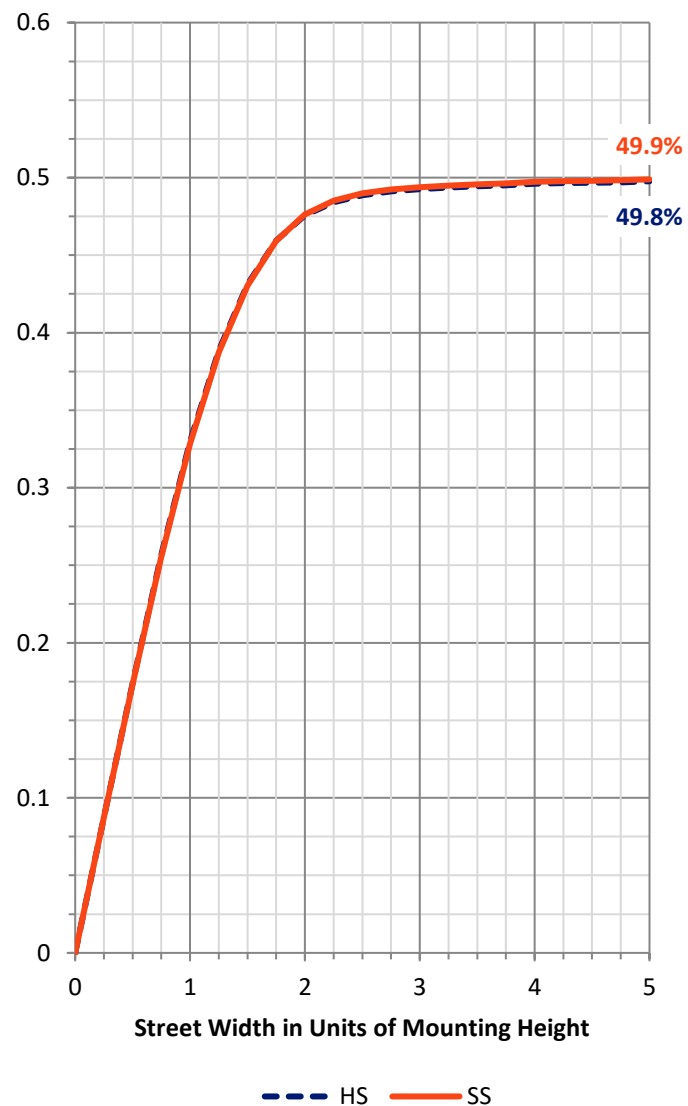
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20073.5	0.0	20073.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20073.5	0.0	20073.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40147.0	0.0	40147.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.7	1.0
10°-20°	1388.1	3.5
20°-30°	2715.2	6.8
30°-40°	4618.1	11.5
40°-50°	7309.1	18.2
50°-60°	9691.7	24.1
60°-70°	9142.3	22.8
70°-80°	4519.5	11.3
80°-90°	348.3	0.9
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°	40147.0	100.0
0°-180°	40147.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456401

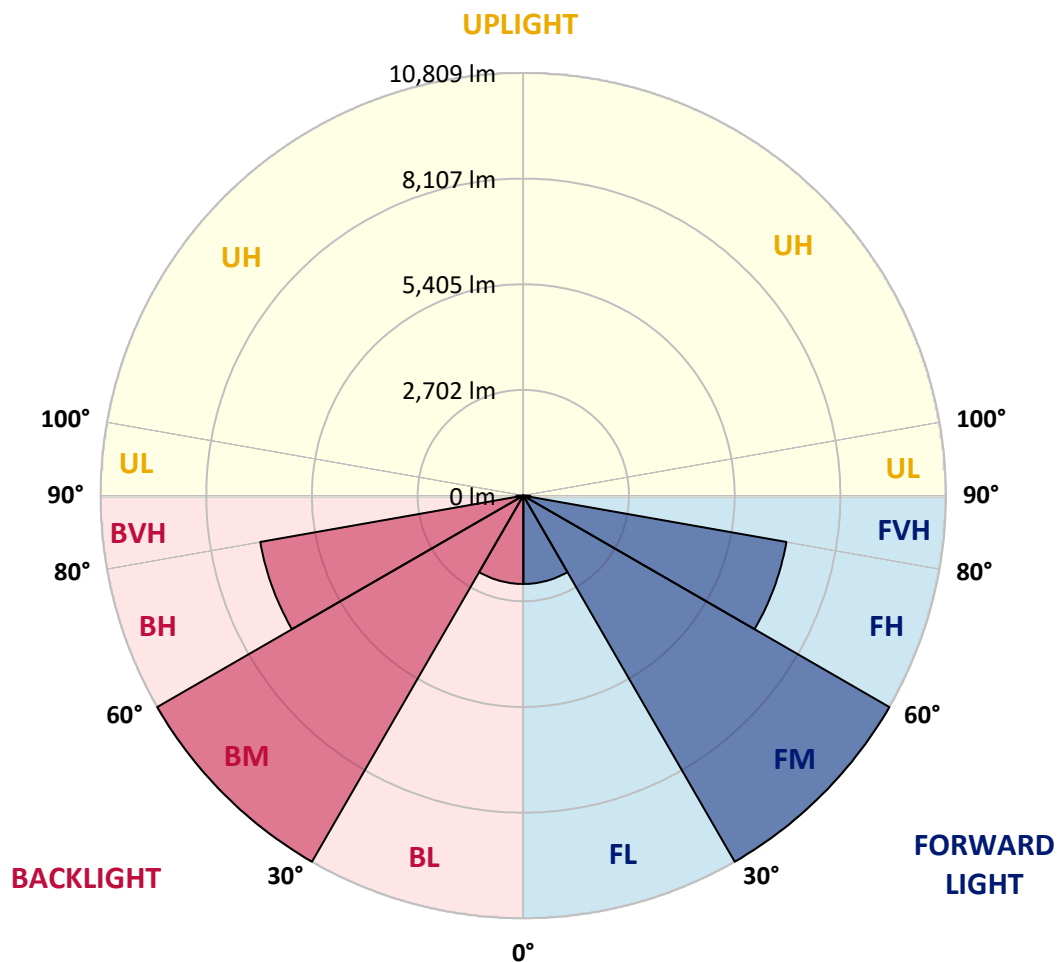
CATALOG NUMBER: GALN-SA7C-830-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2259.0	5.6			
FM	(30°-60°)	10809.5	26.9			
FH	(60°-80°)	6830.9	17.0			G3/7500
FVH	(80°-90°)	174.2	0.4			G2/225
BL	(0°-30°)	2259.0	5.6	B3/2500		
BM	(30°-60°)	10809.5	26.9	B5		
BH	(60°-80°)	6830.9	17.0	B5		G5
BVH	(80°-90°)	174.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





REPORT NUMBER: P456401

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4205.0	4205.0	4205.0	4205.0	4205.0	4205.0	4205.0	4205.0	4205.0	4205.0	4205.0
2.5°	4183.5	4187.8	4192.1	4198.6	4207.2	4220.1	4228.7	4235.2	4252.4	4254.5	4252.4
5°	4168.5	4172.8	4183.5	4202.9	4230.9	4269.6	4299.7	4336.3	4364.2	4383.6	4379.3
7.5°	4166.3	4174.9	4192.1	4233.0	4286.8	4353.5	4422.3	4484.7	4538.4	4581.5	4575.0
10°	4200.7	4211.5	4239.5	4299.7	4383.6	4480.4	4577.2	4669.6	4747.1	4803.0	4822.4
12.5°	4258.8	4267.4	4319.0	4409.4	4529.8	4650.3	4760.0	4874.0	4981.5	5076.2	5076.2
15°	4359.9	4375.0	4439.5	4570.7	4719.1	4858.9	4970.8	5091.2	5207.4	5314.9	5347.2
17.5°	4499.7	4521.2	4618.0	4785.8	4975.1	5104.1	5209.5	5308.5	5409.6	5512.8	5527.9
20°	4691.2	4712.7	4841.7	5043.9	5267.6	5422.5	5493.4	5517.1	5566.6	5665.5	5678.4
22.5°	4951.4	4972.9	5117.0	5345.0	5594.5	5762.3	5792.4	5736.5	5723.6	5801.0	5809.6
25°	5246.1	5265.4	5431.1	5676.3	5934.4	6117.2	6108.6	5970.9	5893.5	5940.8	5953.7
27.5°	5577.3	5605.3	5773.1	6026.9	6306.5	6467.8	6442.0	6242.0	6076.3	6067.7	6072.0
30°	6001.1	6031.2	6190.3	6433.4	6708.7	6857.1	6803.4	6534.5	6278.5	6192.5	6192.5
32.5°	6448.5	6523.7	6685.1	6938.9	7154.0	7261.5	7179.8	6857.1	6517.3	6396.8	6390.4
35°	7031.3	7072.2	7231.4	7478.7	7640.1	7723.9	7566.9	7220.6	6829.2	6687.2	6667.8
37.5°	7601.3	7635.8	7820.7	8057.3	8253.1	8248.8	8035.8	7653.0	7216.3	7057.2	7044.3
40°	8184.2	8220.8	8431.6	8648.8	8844.6	8827.4	8569.3	8141.2	7676.6	7498.1	7532.5
42.5°	8689.7	8730.6	8969.3	9279.1	9455.4	9451.1	9152.2	8670.3	8186.4	8027.2	8057.3
45°	9150.0	9186.6	9464.0	9818.9	10077.0	10109.3	9782.4	9272.6	8775.7	8571.4	8580.0
47.5°	9474.8	9543.6	9834.0	10240.5	10591.1	10705.1	10384.6	9885.6	9313.5	9100.5	9113.4
50°	9722.1	9765.2	10081.4	10543.8	10986.9	11223.5	10965.4	10453.5	9851.2	9625.4	9655.5
52.5°	9752.3	9803.9	10148.0	10681.5	11249.3	11608.5	11481.6	11008.4	10399.7	10167.4	10231.9
55°	9507.1	9537.2	9948.0	10595.4	11352.5	11894.6	11926.8	11524.6	10922.4	10746.0	10789.0
57.5°	8808.0	8885.4	9406.0	10193.2	11210.6	12047.3	12260.2	11993.5	11451.5	11277.3	11346.1
60°	7661.6	7739.0	8261.7	9259.7	10675.0	11976.3	12535.5	12408.6	11931.1	11791.3	11827.9
62.5°	6003.2	5996.8	6644.2	7868.1	9610.3	11627.9	12739.9	12808.7	12404.3	12228.0	12283.9
65°	3891.0	3910.4	4536.3	5854.8	8003.6	10741.7	12785.1	13318.5	12868.9	12602.2	12643.1
66°	3129.6	3187.7	3718.9	4934.2	7184.1	10160.9	12649.5	13469.0	13010.9	12688.3	12707.6
67.5°	2310.1	2299.3	2736.0	3673.8	5736.5	9057.5	12225.8	13563.7	13172.2	12765.7	12774.3
70°	1318.5	1316.4	1471.2	2017.6	3372.6	6377.5	10305.0	13109.8	13499.2	13045.3	13021.7
72.5°	963.6	957.2	978.7	1114.2	1645.5	3219.9	7108.8	11457.9	13331.4	13000.1	12933.5
75°	808.7	804.4	800.1	817.3	922.7	1458.3	3772.7	8242.3	11567.6	12202.2	12133.3
77.5°	660.3	660.3	662.5	658.2	662.5	767.9	1563.7	4418.0	7044.3	7863.8	8055.2
80°	516.2	514.1	550.6	535.6	501.2	492.6	692.6	1421.8	2338.0	2325.1	1918.6
82.5°	380.7	354.9	419.4	408.7	370.0	314.0	404.4	606.6	780.8	507.6	376.4
85°	240.9	238.8	296.8	271.0	225.8	148.4	193.6	260.3	322.6	195.7	159.2
87.5°	43.0	40.9	94.6	68.8	68.8	43.0	53.8	71.0	105.4	73.1	53.8
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)