

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: P456630

Luminaire Tested: **GALN-SA7D-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456630
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-SA7D-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44813 lumens
Efficiency: N/A
Efficacy: 103.5 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): 433
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



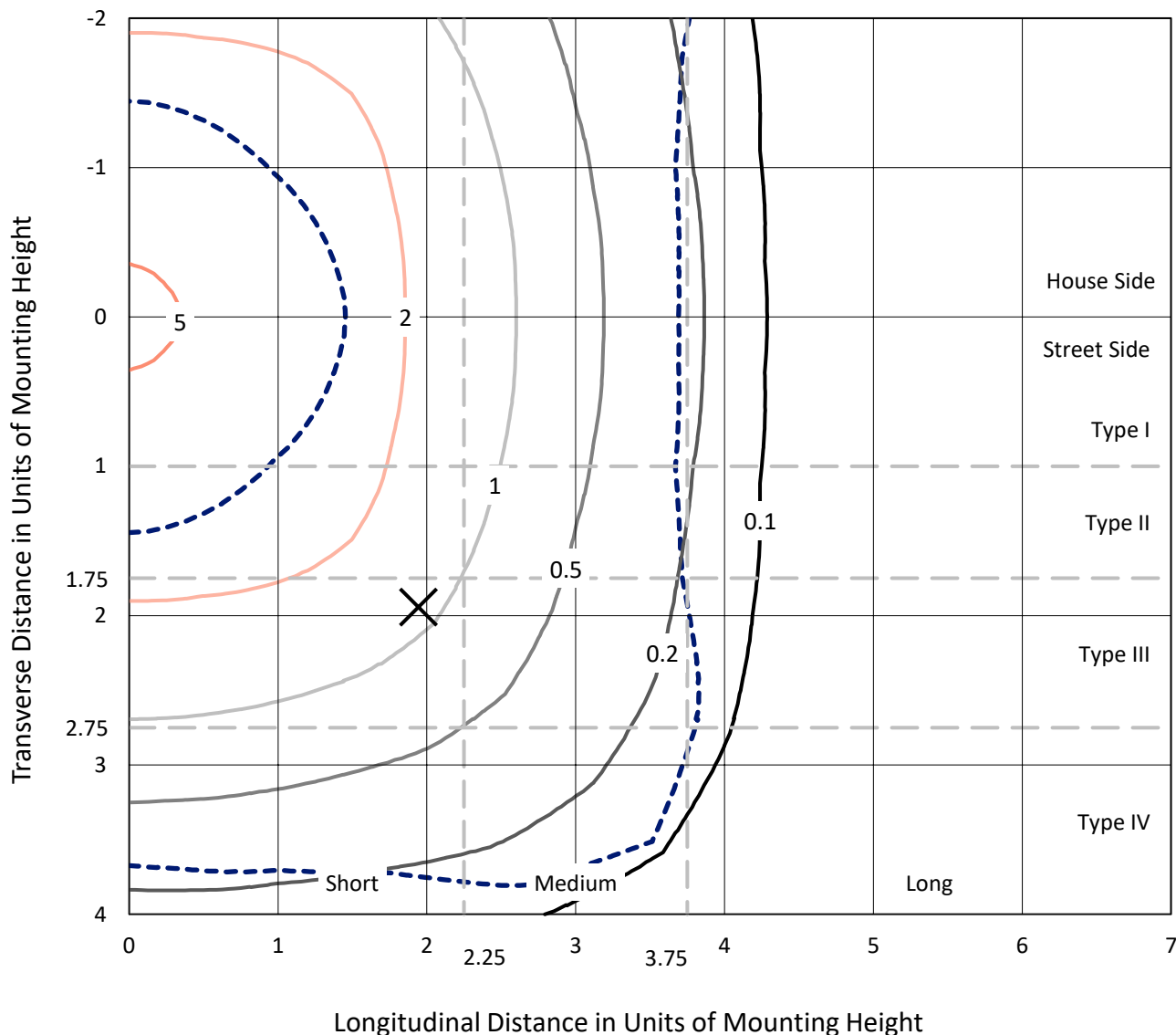
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

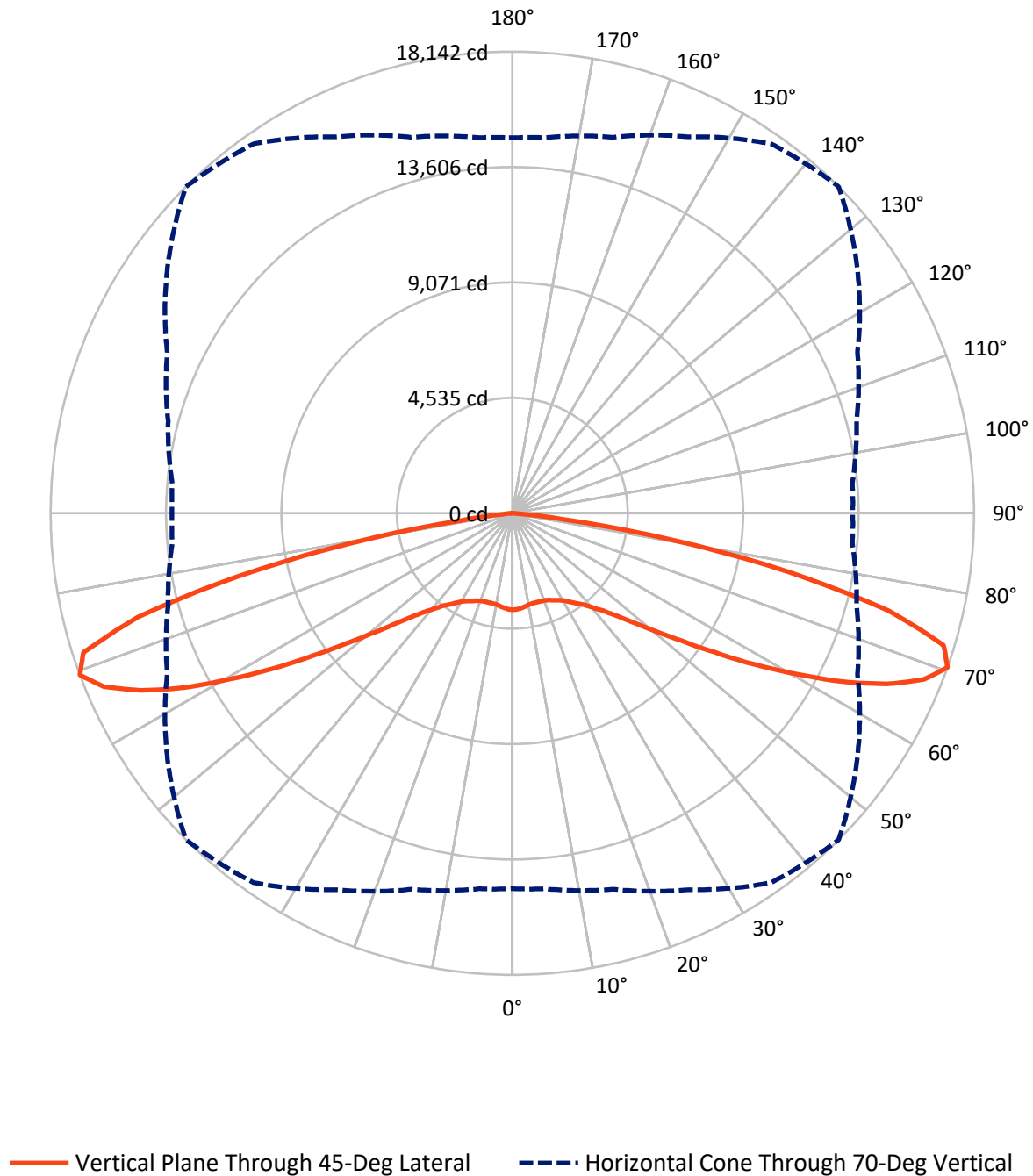


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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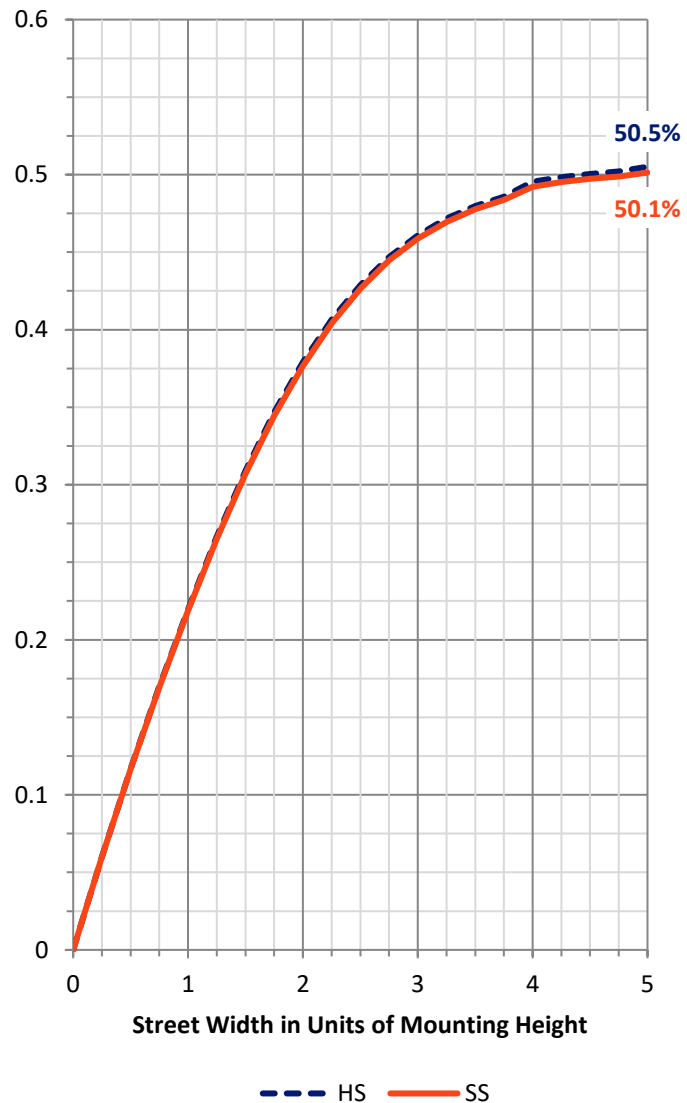
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22406.5	0.0	22406.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22406.5	0.0	22406.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	44813.0	0.0	44813.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.8	0.8
10°-20°	1038.7	2.3
20°-30°	1769.7	3.9
30°-40°	2743.1	6.1
40°-50°	4617.0	10.3
50°-60°	8400.4	18.7
60°-70°	14221.6	31.7
70°-80°	11008.1	24.6
80°-90°	659.6	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°	44813.0	100.0
0°-180°	44813.0	100.0

Coefficient of Utilization



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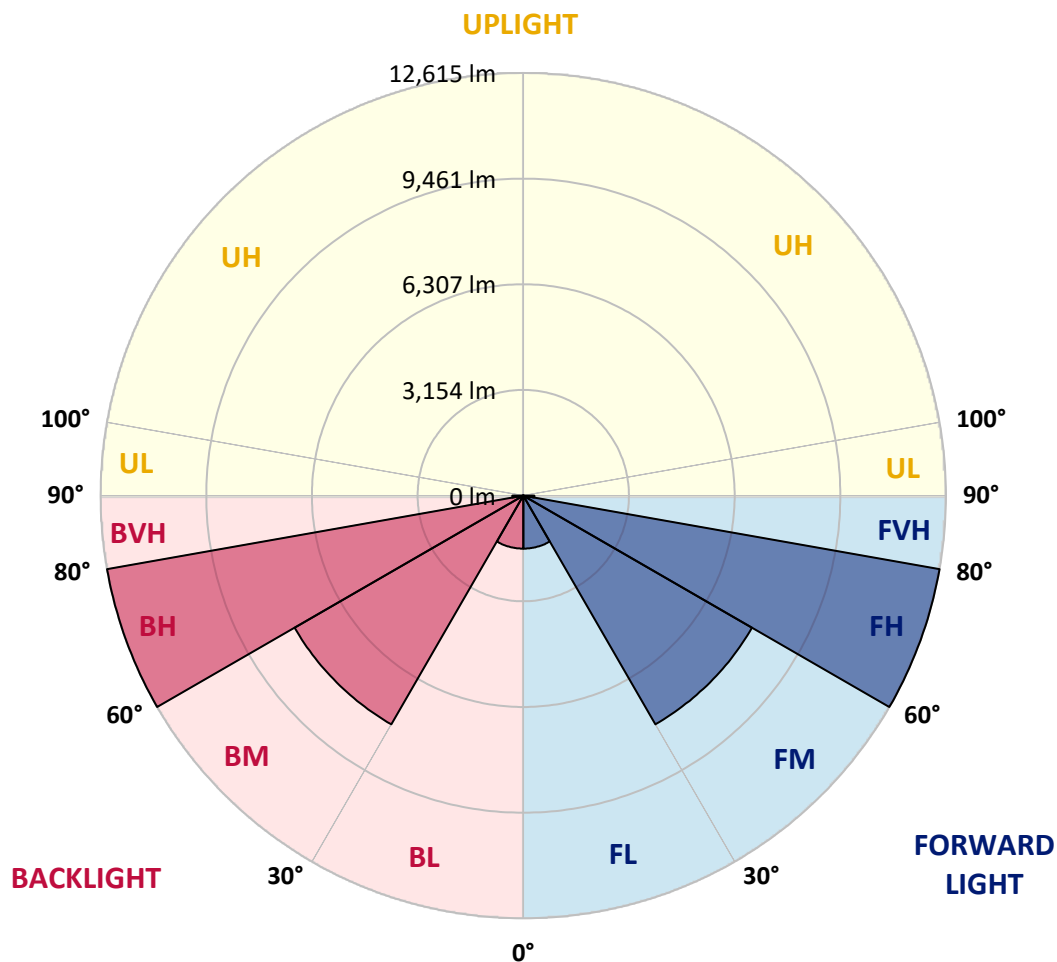
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1581.6	3.5			
FM	(30°-60°)	7880.2	17.6			
FH	(60°-80°)	12614.9	28.1			G5
FVH	(80°-90°)	329.8	0.7			G3/500
BL	(0°-30°)	1581.6	3.5	B3/2500		
BM	(30°-60°)	7880.2	17.6	B4/8500		
BH	(60°-80°)	12614.9	28.1	B5		G5
BVH	(80°-90°)	329.8	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°	3794.0	3794.0	3794.0	3794.0	3794.0	3794.0	3794.0	3794.0	3794.0	3794.0	3794.0
2.5°	3784.5	3786.9	3786.9	3782.1	3779.8	3779.8	3777.4	3777.4	3784.5	3786.9	3789.2
5°	3751.4	3751.4	3751.4	3749.0	3744.3	3744.3	3739.5	3739.5	3741.9	3749.0	3744.3
7.5°	3706.4	3711.1	3711.1	3701.7	3694.6	3694.6	3692.2	3694.6	3696.9	3704.0	3701.7
10°	3692.2	3694.6	3682.7	3666.2	3654.3	3647.2	3649.6	3654.3	3666.2	3670.9	3673.3
12.5°	3701.7	3701.7	3680.4	3656.7	3635.4	3625.9	3623.6	3640.1	3661.4	3675.6	3680.4
15°	3713.5	3708.8	3682.7	3652.0	3630.7	3628.3	3625.9	3637.8	3668.5	3696.9	3699.3
17.5°	3720.6	3718.2	3685.1	3647.2	3635.4	3635.4	3633.0	3642.5	3675.6	3711.1	3713.5
20°	3744.3	3737.2	3699.3	3659.1	3649.6	3654.3	3647.2	3659.1	3694.6	3737.2	3746.6
22.5°	3791.6	3784.5	3746.6	3706.4	3701.7	3701.7	3699.3	3711.1	3749.0	3794.0	3801.1
25°	3848.4	3841.3	3805.8	3777.4	3782.1	3791.6	3786.9	3789.2	3820.0	3857.9	3869.7
27.5°	3924.1	3912.3	3881.5	3857.9	3872.1	3872.1	3872.1	3869.7	3888.6	3924.1	3936.0
30°	4016.4	4011.7	3978.6	3976.2	3988.0	3976.2	3976.2	3978.6	3980.9	4014.1	4025.9
32.5°	4137.2	4127.7	4111.1	4106.4	4139.5	4149.0	4115.9	4085.1	4101.7	4134.8	4141.9
35°	4336.0	4321.8	4298.1	4272.1	4298.1	4343.1	4272.1	4248.4	4291.0	4336.0	4340.7
37.5°	4605.8	4598.7	4560.8	4513.5	4511.1	4558.4	4485.1	4482.7	4563.2	4617.6	4624.7
40°	4944.2	4951.3	4904.0	4859.0	4835.4	4873.2	4816.4	4837.7	4915.8	4977.4	4972.6
42.5°	5420.0	5393.9	5320.6	5277.9	5251.9	5237.7	5223.5	5256.6	5344.2	5410.5	5462.6
45°	5976.2	5966.7	5874.4	5822.3	5765.5	5744.2	5739.5	5798.6	5905.1	5985.6	5992.7
47.5°	6605.7	6584.4	6525.2	6470.8	6449.5	6423.5	6399.8	6444.8	6551.3	6608.1	6624.7
50°	7254.2	7259.0	7259.0	7249.5	7270.8	7275.5	7211.6	7228.2	7287.4	7282.6	7277.9
52.5°	7995.0	8021.1	8144.1	8156.0	8257.7	8326.4	8210.4	8141.8	8120.5	7992.7	8002.1
55°	8866.0	8889.7	9074.3	9258.9	9533.4	9649.4	9405.6	9192.6	9041.1	8847.1	8856.5
57.5°	9952.4	9964.2	10139.3	10494.4	10929.9	11202.0	10773.6	10352.4	10044.7	9860.1	9786.7
60°	11121.6	11133.4	11389.0	11822.1	12499.0	12830.4	12300.2	11611.5	11223.3	10941.7	10960.6
62.5°	12525.1	12572.4	12802.0	13398.4	14219.7	14591.3	13888.3	12967.7	12442.2	12091.9	12106.1
65°	14028.0	14108.5	14359.3	15014.9	15772.3	16172.3	15310.8	14248.1	13594.9	13166.5	13211.4
67.5°	15003.1	15074.1	15436.2	16160.5	17104.8	17436.2	16323.8	15085.9	14269.4	13758.2	13663.5
70°	14754.6	14813.8	15296.6	16323.8	17722.5	18141.5	16565.2	14962.9	14001.9	13412.6	13374.7
72.5°	13024.5	12901.4	13606.7	15081.2	17017.2	17720.2	15805.4	13665.9	12456.4	11850.5	11779.5
75°	8631.7	8899.1	9940.5	11677.8	14397.2	15268.2	13490.7	10972.5	9450.6	8946.5	8868.4
77.5°	2885.1	3091.0	4016.4	6619.9	9815.1	11123.9	9829.3	7176.1	5076.8	4089.8	4108.8
80°	764.5	755.0	977.5	1820.1	4241.3	6442.4	4937.1	2430.7	1330.1	963.3	913.6
82.5°	274.5	307.7	395.3	504.1	1124.2	2002.3	1413.0	681.6	499.4	369.2	357.4
85°	120.7	118.3	170.4	201.2	281.6	374.0	331.4	288.7	253.2	168.0	156.2
87.5°	26.0	26.0	40.2	30.8	49.7	49.7	61.5	73.4	75.7	49.7	40.2
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)