

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: P458484

Luminaire Tested: **GALN-SA9D-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458484
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-SA9D-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58449 lumens
Efficiency: N/A
Efficacy: 105.9 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): 552
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

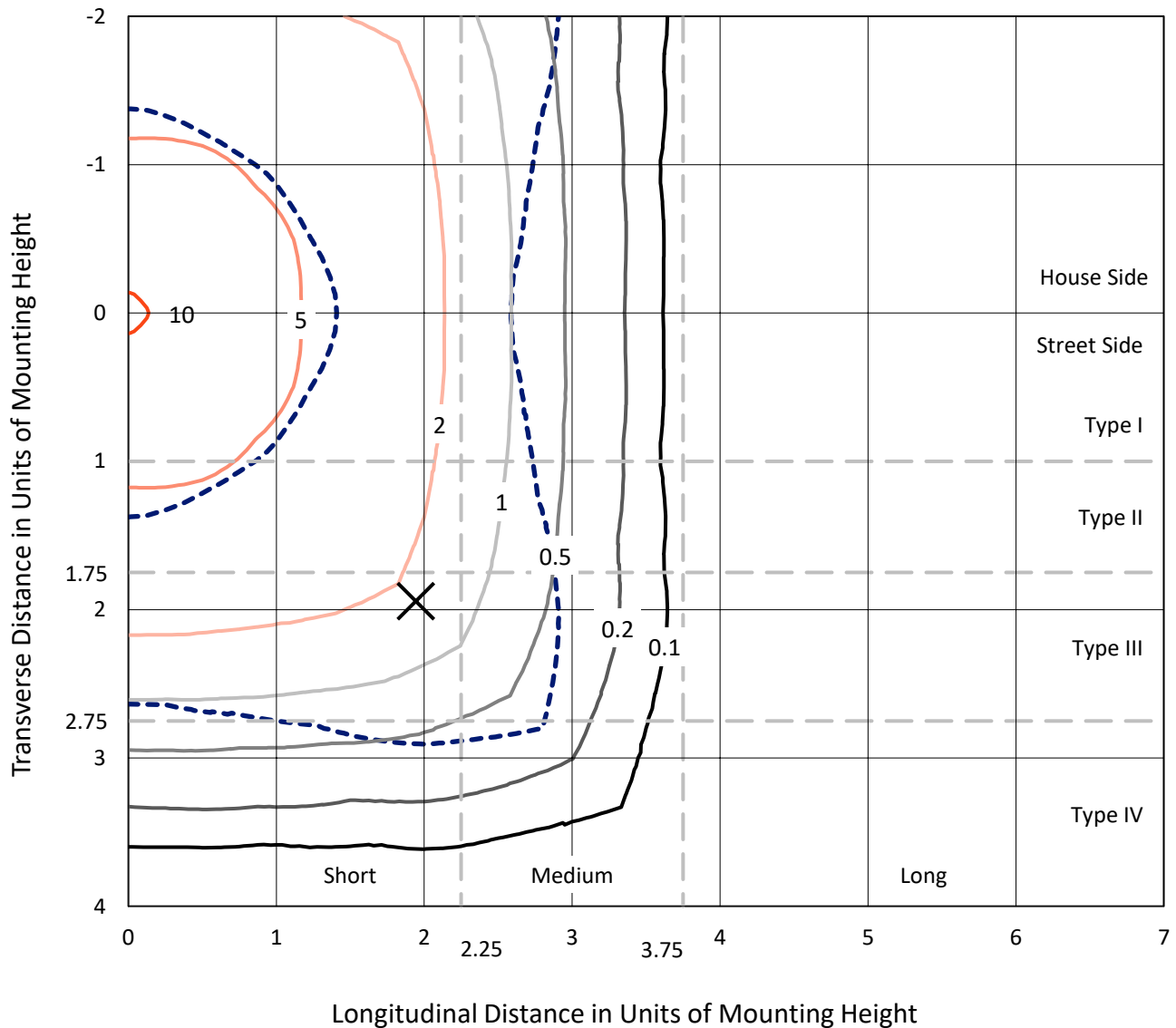


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

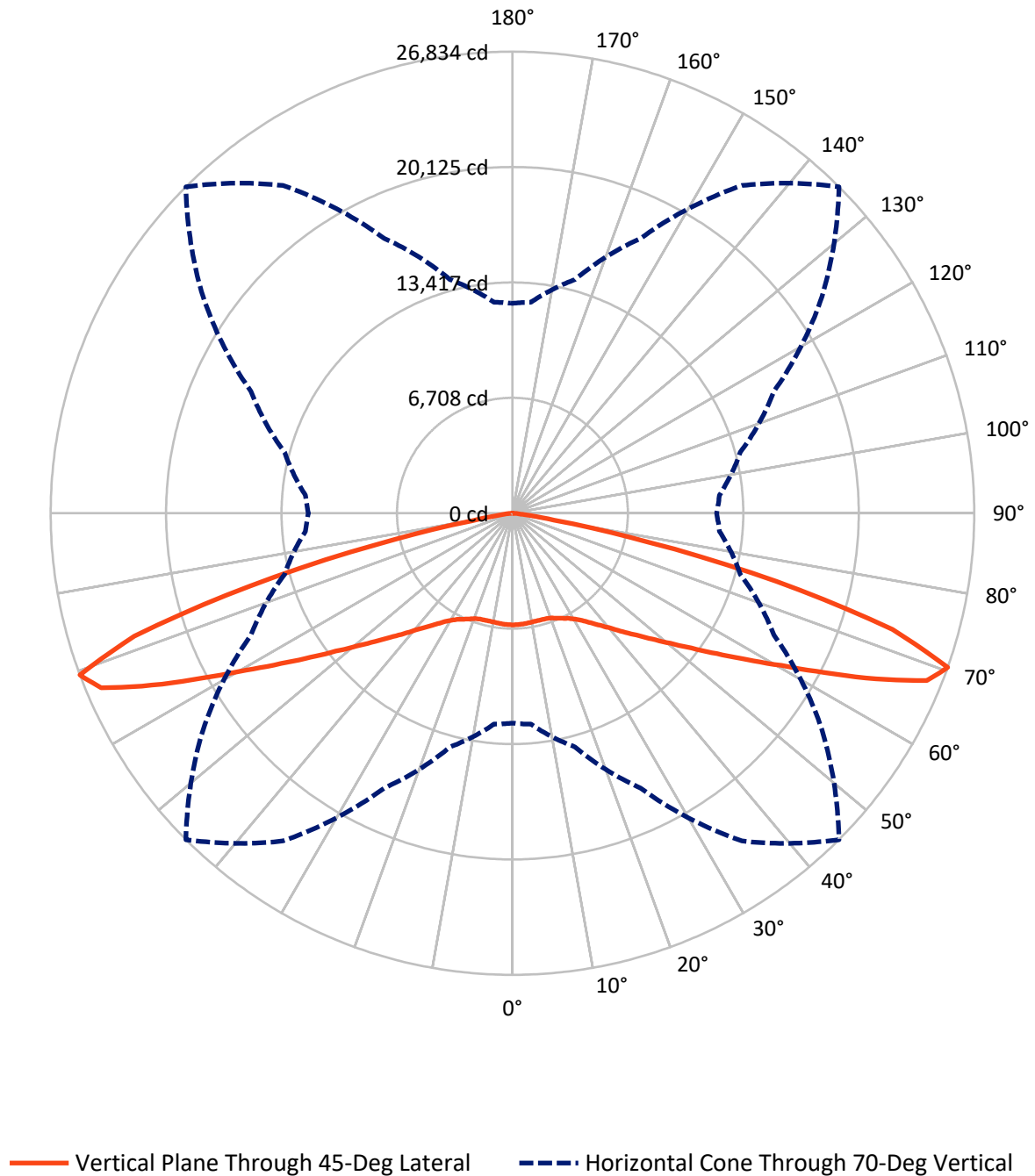


Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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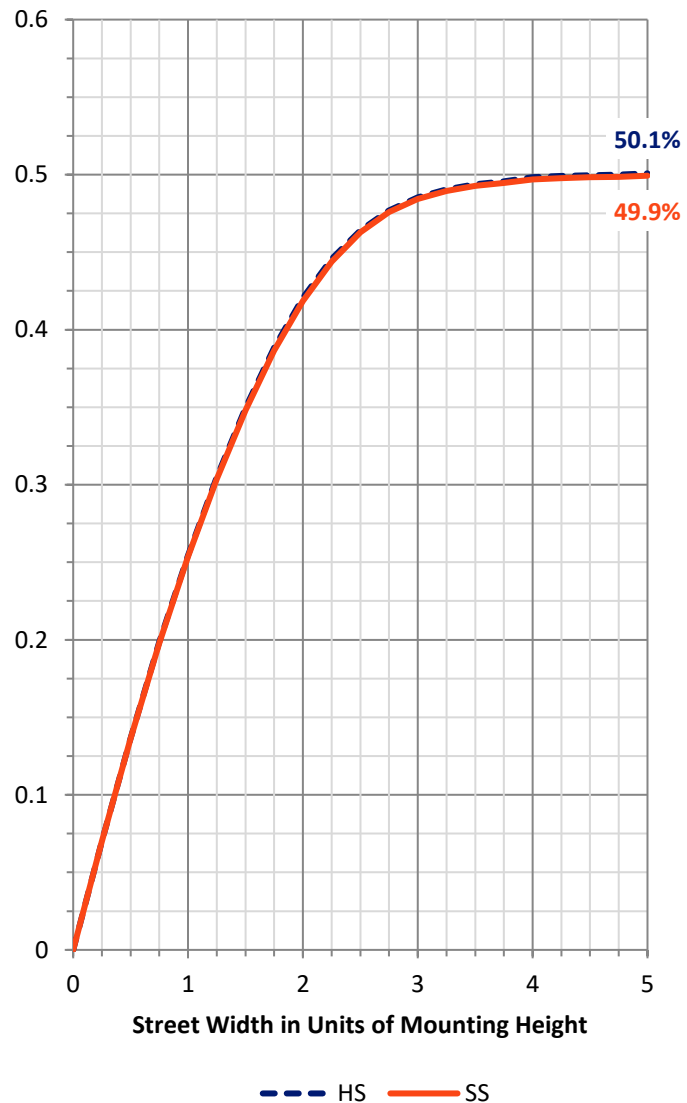
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29224.5	0.0	29224.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29224.5	0.0	29224.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	58449.0	0.0	58449.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.5	1.1
10°-20°	1806.1	3.1
20°-30°	3089.0	5.3
30°-40°	4902.9	8.4
40°-50°	7909.6	13.5
50°-60°	12869.1	22.0
60°-70°	18655.6	31.9
70°-80°	8274.9	14.2
80°-90°	326.4	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°	58449.0	100.0
0°-180°	58449.0	100.0

Coefficient of Utilization



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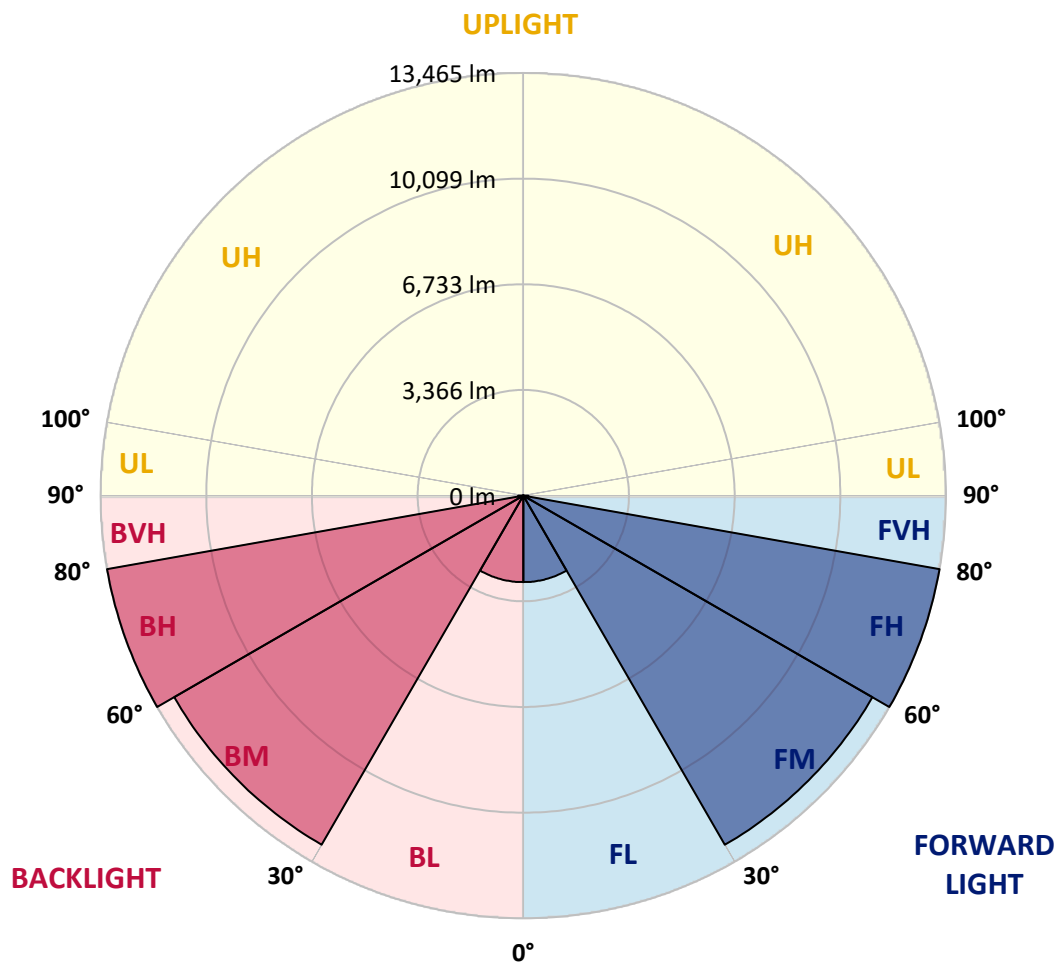
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2755.3	4.7			
FM	(30°-60°)	12840.8	22.0			
FH	(60°-80°)	13465.2	23.0			G5
FVH	(80°-90°)	163.2	0.3			G2/225
BL	(0°-30°)	2755.3	4.7	B4/5000		
BM	(30°-60°)	12840.8	22.0	B5		
BH	(60°-80°)	13465.2	23.0	B5		G5
BVH	(80°-90°)	163.2	0.3			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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6490.5	6490.5	6490.5	6490.5	6490.5	6490.5	6490.5	6490.5	6490.5	6490.5	6490.5
2.5°	6490.5	6496.6	6487.4	6481.2	6478.2	6478.2	6475.1	6478.2	6496.6	6499.7	6490.5
5°	6472.0	6478.2	6475.1	6468.9	6465.8	6465.8	6462.8	6459.7	6475.1	6481.2	6478.2
7.5°	6447.4	6450.4	6447.4	6444.3	6447.4	6444.3	6435.0	6428.9	6441.2	6441.2	6438.1
10°	6404.2	6410.4	6407.3	6410.4	6416.6	6416.6	6404.2	6391.9	6395.0	6388.8	6388.8
12.5°	6351.9	6361.1	6364.2	6376.5	6391.9	6410.4	6382.7	6354.9	6348.8	6345.7	6342.6
15°	6318.0	6327.2	6339.5	6351.9	6379.6	6419.6	6379.6	6336.5	6324.1	6311.8	6305.7
17.5°	6308.7	6321.1	6339.5	6358.0	6395.0	6435.0	6401.2	6358.0	6327.2	6308.7	6302.6
20°	6333.4	6342.6	6370.3	6404.2	6456.6	6496.6	6462.8	6416.6	6370.3	6342.6	6333.4
22.5°	6382.7	6398.1	6432.0	6493.6	6567.5	6626.0	6579.8	6502.8	6428.9	6391.9	6379.6
25°	6490.5	6502.8	6542.9	6626.0	6712.3	6767.7	6718.4	6629.1	6527.5	6478.2	6462.8
27.5°	6653.7	6672.2	6715.4	6813.9	6884.8	6915.6	6881.7	6820.1	6746.2	6693.8	6681.5
30°	6884.8	6906.3	6971.0	7075.8	7122.0	7140.5	7125.1	7085.0	7032.6	6977.2	6964.9
32.5°	7195.9	7208.2	7282.2	7380.7	7423.9	7430.0	7411.5	7393.1	7306.8	7214.4	7208.2
35°	7544.0	7565.6	7654.9	7771.9	7812.0	7815.1	7778.1	7750.4	7648.7	7574.8	7574.8
37.5°	8006.1	8015.3	8101.6	8234.0	8277.1	8264.8	8246.3	8221.7	8113.9	8018.4	8021.5
40°	8548.2	8566.7	8640.6	8794.7	8794.7	8779.3	8791.6	8773.1	8665.3	8572.9	8575.9
42.5°	9192.0	9201.3	9290.6	9453.9	9441.5	9410.7	9423.1	9398.4	9330.7	9225.9	9189.0
45°	9879.0	9915.9	10070.0	10227.1	10202.4	10103.8	10153.1	10147.0	10085.4	9928.3	9937.5
47.5°	10707.6	10769.2	10917.1	11105.0	11077.3	10923.2	10978.7	11015.7	10929.4	10756.9	10726.1
50°	11641.0	11681.0	11899.7	12075.3	12050.7	11887.4	12013.7	12019.9	11804.2	11560.9	11560.9
52.5°	12636.0	12676.0	12971.7	13245.9	13261.3	13024.1	13125.8	13119.6	12768.4	12448.1	12386.4
55°	13751.1	13769.6	14151.5	14555.1	14641.3	14410.3	14422.6	14299.4	13843.5	13470.8	13436.9
57.5°	14903.2	14970.9	15393.0	15916.6	16172.3	16030.6	15965.9	15636.3	15195.8	14767.6	14746.1
60°	16178.5	16181.5	16729.9	17349.0	17866.5	17962.0	17697.1	17256.6	16686.7	16119.9	16095.3
62.5°	17062.6	17195.0	17888.1	18935.5	19862.7	20398.7	19699.4	18775.3	17654.0	16739.1	16646.7
65°	17244.3	17333.6	18390.2	20164.6	22059.0	23214.2	21597.0	19631.6	17718.7	16498.8	16437.2
67.5°	15774.9	15870.4	17293.6	20016.7	23599.2	25968.1	22829.1	19218.9	16622.1	15112.6	14992.5
70°	12201.6	12309.4	14068.4	17620.1	23257.3	26833.7	21951.2	16763.8	13708.0	12078.4	11859.7
72.5°	6487.4	6884.8	8388.0	12093.8	18876.9	23103.3	17999.0	12232.4	8840.9	7226.7	6937.1
75°	2368.9	2418.1	3256.0	5363.0	10981.8	15842.7	11403.8	5834.4	3354.6	2590.6	2458.2
77.5°	979.6	976.5	1072.0	1620.3	3989.2	8113.9	4451.2	1712.7	1068.9	988.8	976.5
80°	579.1	579.1	637.7	674.6	1050.4	2448.9	1173.6	763.9	640.7	585.3	594.5
82.5°	258.8	274.2	403.5	425.1	508.3	671.5	566.8	486.7	418.9	289.6	261.8
85°	141.7	123.2	212.6	221.8	243.4	249.5	268.0	264.9	243.4	141.7	144.8
87.5°	27.7	33.9	61.6	46.2	52.4	46.2	61.6	86.3	89.3	49.3	40.0
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)