

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: P456644

Luminaire Tested: **GALN-SA7D-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
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-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42742 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - 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



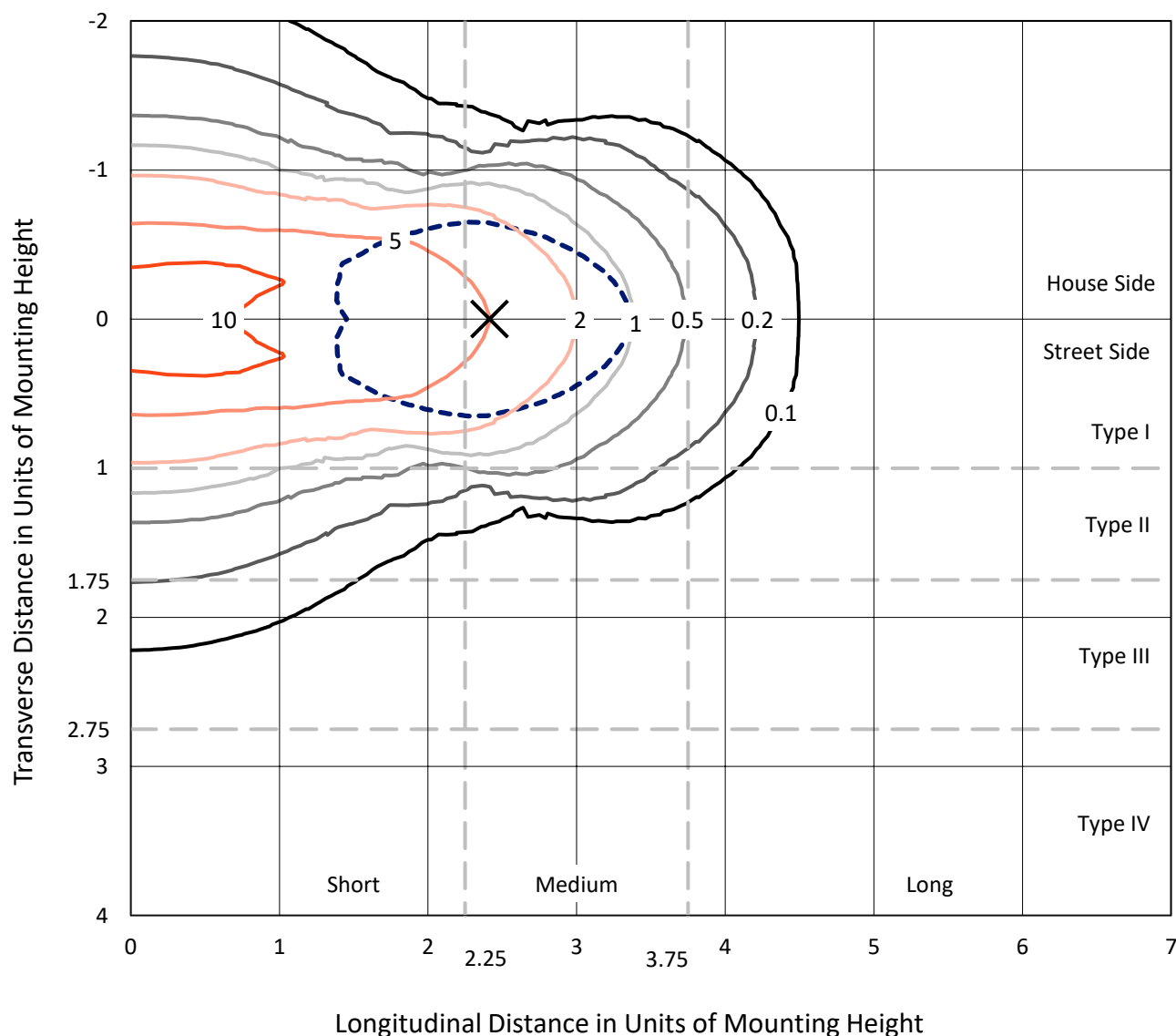
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



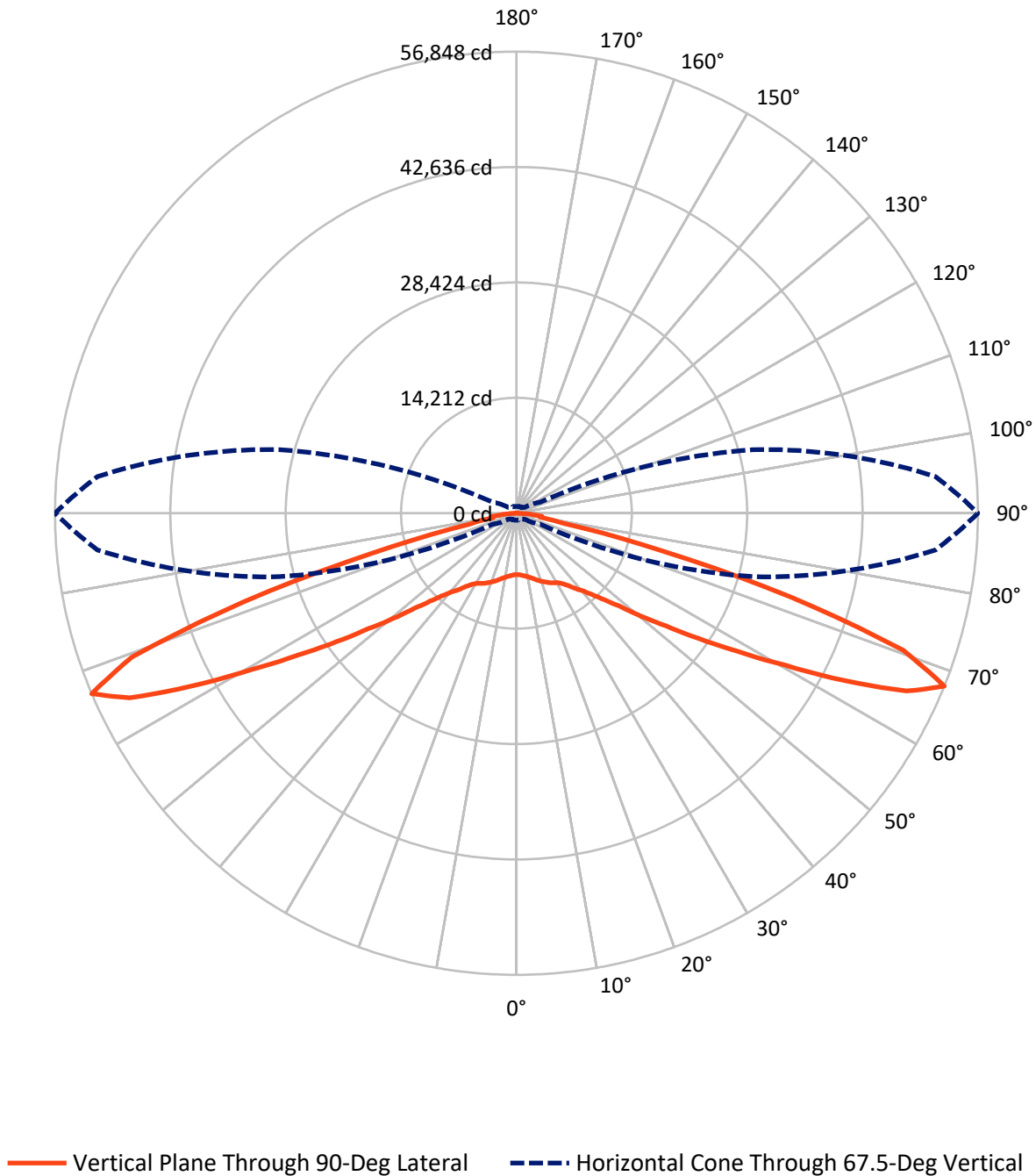
Based on 25 foot mounting height. Maximum calculated value = 12.7 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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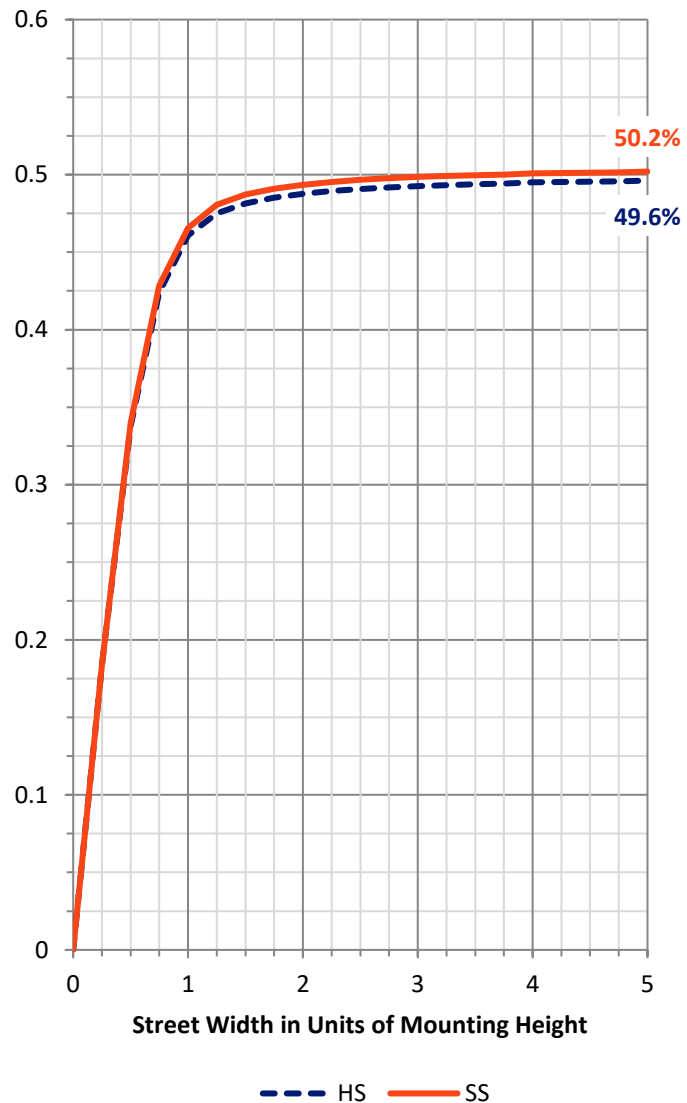
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21371.0	0.0	21371.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21371.0	0.0	21371.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	42742.0	0.0	42742.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	754.4	1.8
10°-20°	2413.7	5.6
20°-30°	4039.8	9.5
30°-40°	5472.9	12.8
40°-50°	6932.4	16.2
50°-60°	8660.3	20.3
60°-70°	10179.8	23.8
70°-80°	3894.2	9.1
80°-90°	394.5	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°	42742.0	100.0
0°-180°	42742.0	100.0

Coefficient of Utilization



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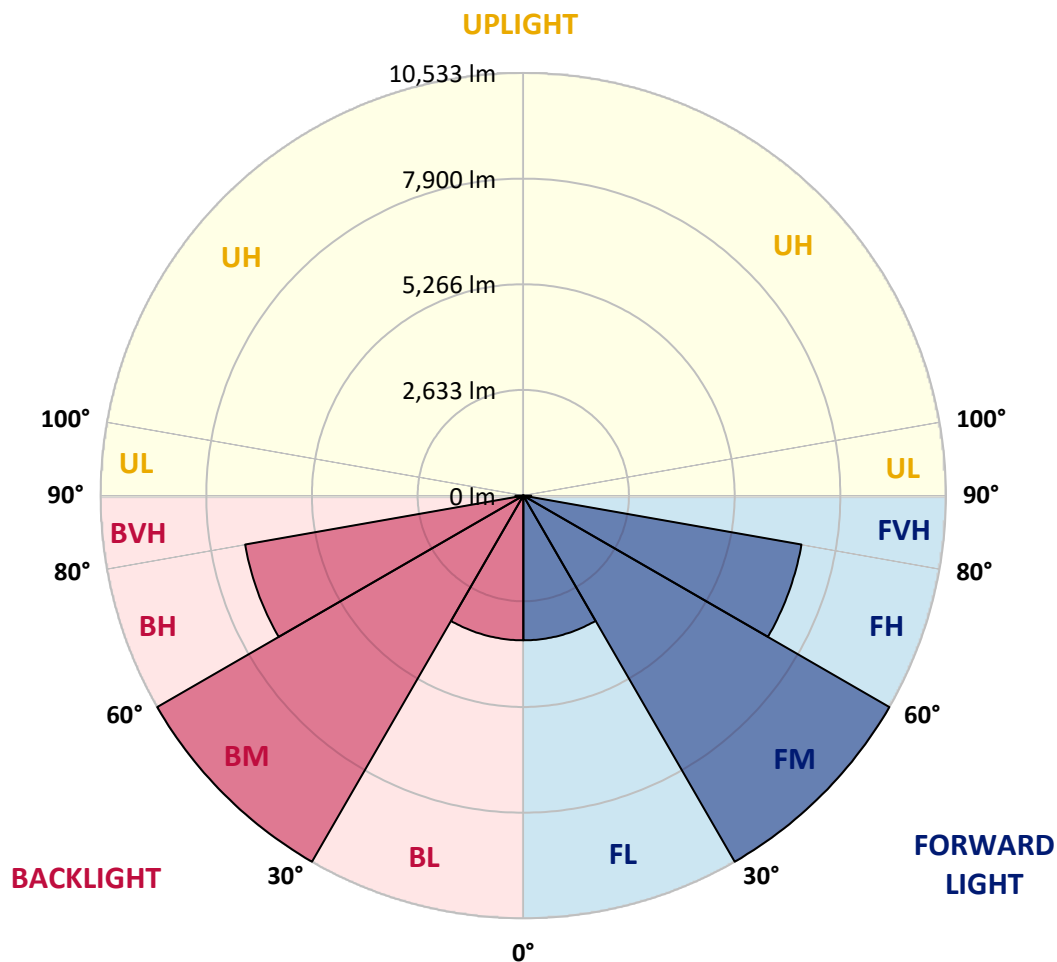
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3604.0	8.4			
FM	(30°-60°)	10532.8	24.6			
FH	(60°-80°)	7037.0	16.5			G3/7500
FVH	(80°-90°)	197.3	0.5			G2/225
BL	(0°-30°)	3604.0	8.4	B4/5000		
BM	(30°-60°)	10532.8	24.6	B5		
BH	(60°-80°)	7037.0	16.5	B5		G5
BVH	(80°-90°)	197.3	0.5			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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7566.7	7566.7	7566.7	7566.7	7566.7	7566.7	7566.7	7566.7	7566.7	7566.7	7566.7
2.5°	7663.7	7659.0	7661.3	7659.0	7666.1	7661.3	7632.9	7609.3	7590.3	7592.7	7585.6
5°	7827.0	7829.4	7831.7	7819.9	7836.5	7827.0	7782.0	7744.2	7706.3	7692.1	7687.4
7.5°	7961.9	7973.8	7980.9	7992.7	8021.1	8021.1	7997.4	7943.0	7860.1	7812.8	7810.4
10°	8096.8	8106.3	8127.6	8165.5	8212.8	8257.8	8248.3	8174.9	8068.4	7988.0	7969.0
12.5°	8144.2	8156.0	8227.0	8335.9	8442.4	8530.0	8530.0	8470.8	8333.5	8210.4	8174.9
15°	7978.5	7999.8	8127.6	8359.5	8638.8	8830.5	8873.1	8790.3	8643.6	8454.2	8411.6
17.5°	7649.5	7701.6	7888.5	8231.7	8695.6	9093.3	9216.3	9176.1	8986.7	8745.3	8695.6
20°	7296.8	7353.7	7552.5	8006.9	8648.3	9247.1	9604.5	9613.9	9379.6	9029.3	8956.0
22.5°	6908.7	6951.3	7206.9	7739.4	8506.3	9282.6	9938.2	10101.5	9784.4	9313.4	9209.2
25°	6473.2	6520.5	6788.0	7363.1	8238.8	9242.4	10243.5	10603.3	10208.0	9616.3	9483.8
27.5°	6056.6	6075.6	6362.0	6946.6	7886.2	9138.2	10468.4	11064.8	10676.6	9867.2	9699.2
30°	5656.7	5701.6	5954.9	6532.4	7481.5	8934.7	10662.4	11590.2	11180.8	10129.9	9914.5
32.5°	5233.0	5287.4	5562.0	6146.6	7076.7	8629.4	10780.8	12165.4	11883.7	10555.9	10326.4
35°	4825.9	4861.4	5138.3	5706.4	6681.5	8274.3	10802.1	12813.9	12790.2	11202.1	10896.8
37.5°	4409.4	4461.4	4740.7	5285.1	6262.6	7898.0	10695.6	13502.6	13883.7	12099.1	11770.1
40°	4009.4	4054.3	4328.9	4878.0	5786.8	7438.9	10442.3	14132.2	15159.4	13022.1	12555.9
42.5°	3573.9	3585.7	3886.3	4444.9	5320.6	6906.3	10077.8	14693.1	16581.8	14260.0	13680.1
45°	3079.2	3110.0	3389.3	3938.4	4785.7	6309.9	9583.2	15157.0	18385.3	15975.9	15185.4
47.5°	2584.5	2610.6	2866.2	3408.2	4201.1	5625.9	8821.1	15564.1	20236.2	18155.7	17119.1
50°	2101.7	2115.9	2324.2	2804.7	3543.1	4906.4	7876.7	15694.3	22328.4	21242.0	19919.0
52.5°	1661.5	1682.8	1841.4	2217.7	2840.2	4056.7	6856.6	15372.4	24770.9	24901.1	23036.1
55°	1346.7	1353.8	1472.2	1749.1	2220.1	3166.8	5625.9	14475.4	27398.1	29589.8	27211.1
57.5°	1159.7	1164.5	1230.7	1384.6	1708.8	2388.1	4364.4	12778.4	29757.8	35083.1	32025.2
60°	1053.2	1055.6	1093.5	1183.4	1353.8	1831.9	3126.5	10383.2	32086.7	41196.5	38008.5
62.5°	987.0	987.0	1013.0	1062.7	1145.5	1405.9	2265.0	7490.9	33682.0	47399.9	45383.4
65°	923.1	923.1	942.0	977.5	1022.5	1150.3	1673.3	4885.1	33641.7	51918.2	52801.0
67.5°	849.7	849.7	863.9	899.4	925.4	989.3	1292.3	3199.9	30219.3	51818.8	56848.2
70°	762.1	762.1	781.0	811.8	833.1	873.3	1020.1	2189.3	22200.6	44245.0	50557.2
72.5°	674.5	676.9	688.7	719.5	736.1	759.7	847.3	1533.7	13618.6	30127.0	35350.5
75°	577.5	582.2	594.1	624.8	639.0	648.5	714.8	1093.5	6889.8	16243.4	18494.2
77.5°	466.3	475.7	482.8	516.0	525.4	539.6	589.3	790.5	3024.8	5836.5	5888.6
80°	340.8	352.7	374.0	404.7	411.8	421.3	449.7	560.9	1370.4	2665.0	2894.6
82.5°	250.9	267.4	241.4	281.6	281.6	269.8	317.2	376.3	629.6	2639.0	3157.3
85°	137.3	139.6	125.4	144.4	153.8	151.5	168.0	184.6	305.3	1760.9	1815.3
87.5°	33.1	35.5	37.9	45.0	54.4	54.4	59.2	52.1	99.4	570.4	326.6
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)