

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: P458036

Luminaire Tested: **GALN-SA9B-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458036
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-SA9B-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40919 lumens
Efficiency: N/A
Efficacy: 112.4 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): 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

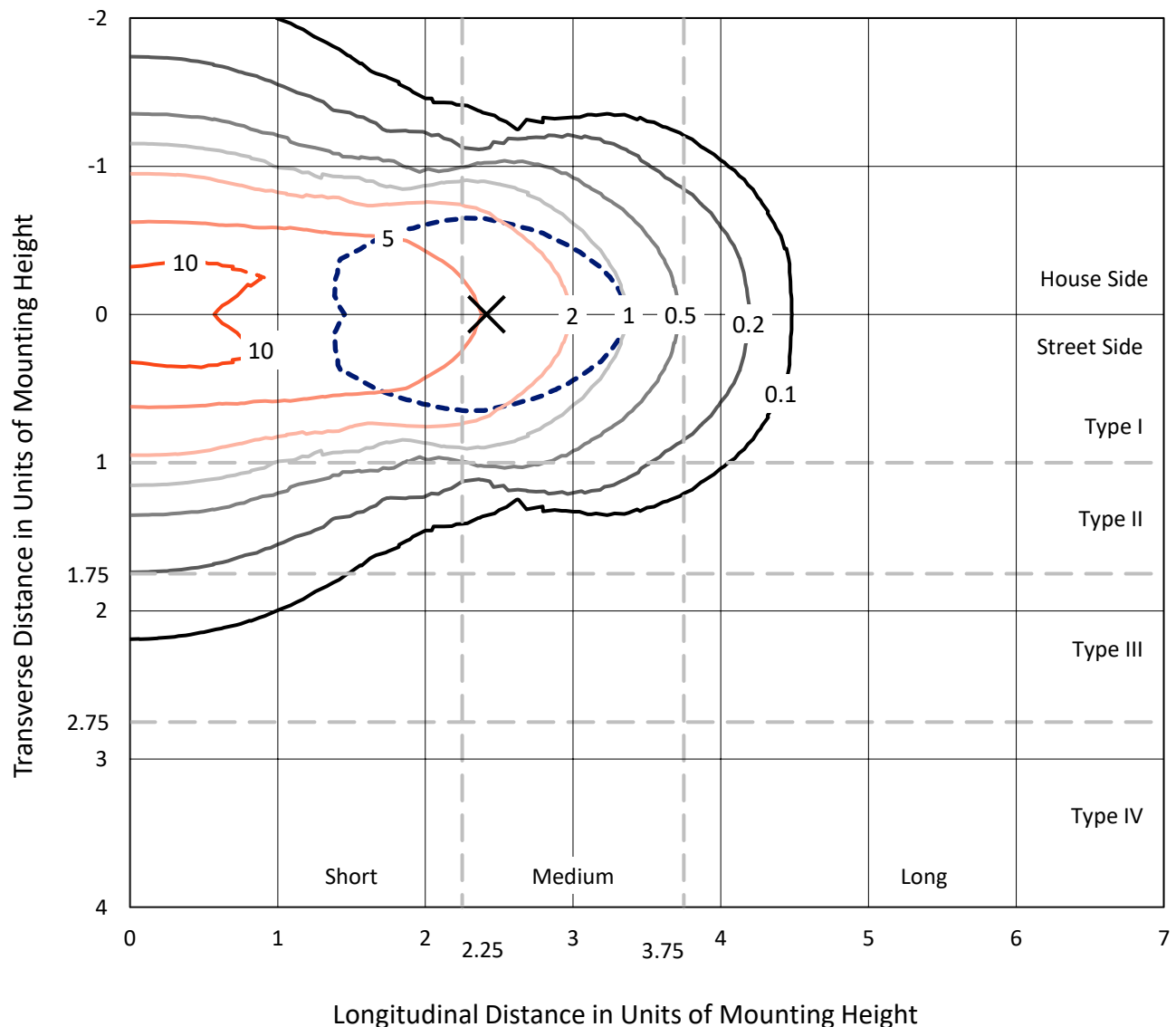


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



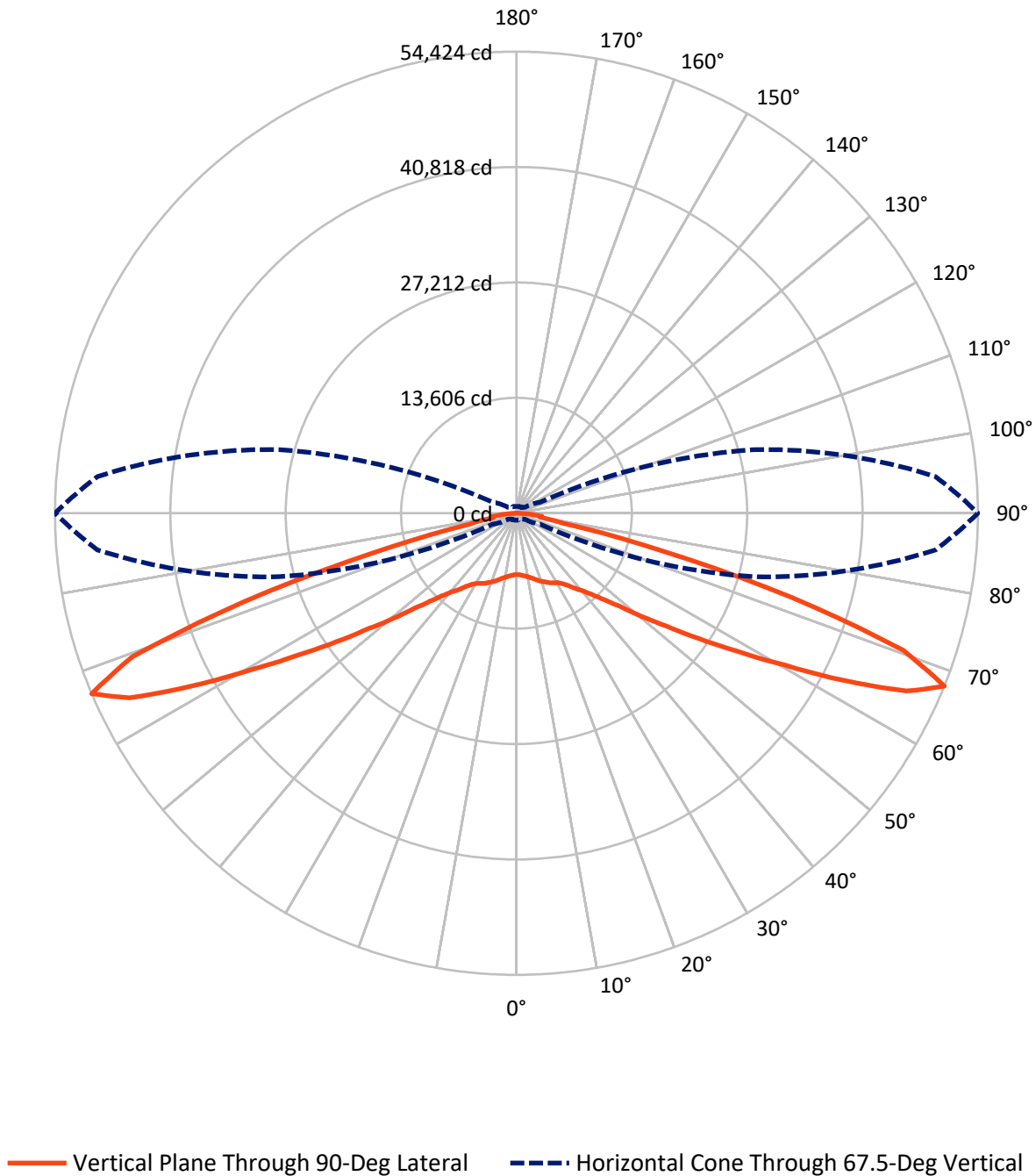
Based on 25 foot mounting height. Maximum calculated value = 12.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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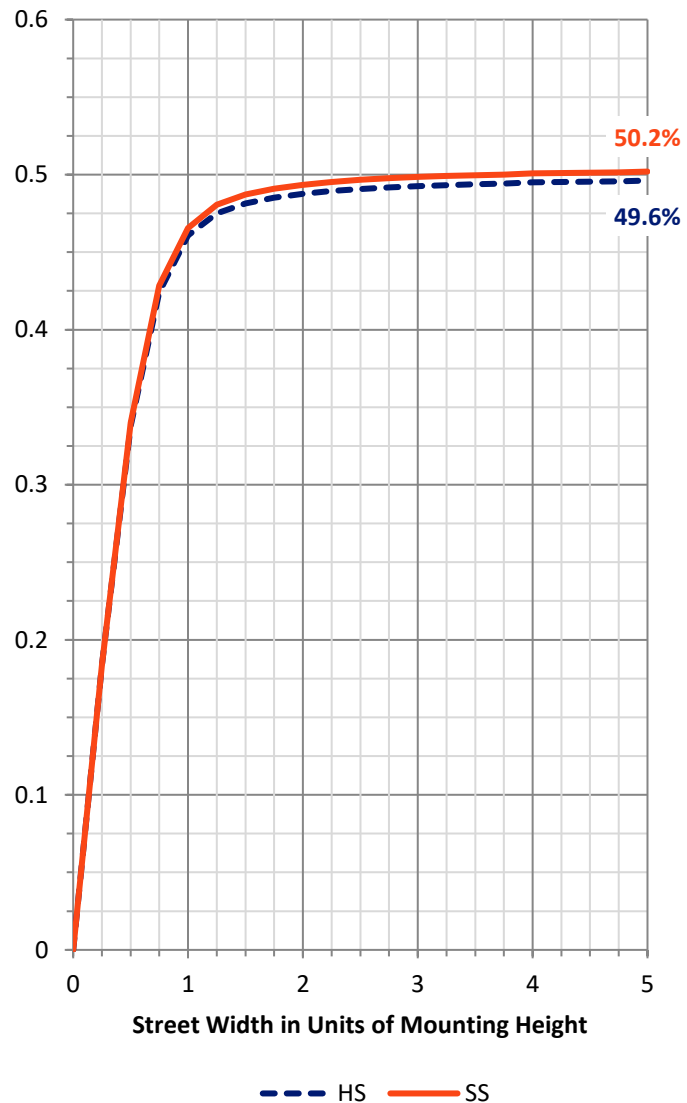
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20459.5	0.0	20459.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20459.5	0.0	20459.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40919.0	0.0	40919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	722.2	1.8
10°-20°	2310.7	5.6
20°-30°	3867.5	9.5
30°-40°	5239.5	12.8
40°-50°	6636.7	16.2
50°-60°	8290.9	20.3
60°-70°	9745.6	23.8
70°-80°	3728.1	9.1
80°-90°	377.7	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°	40919.0	100.0
0°-180°	40919.0	100.0

Coefficient of Utilization



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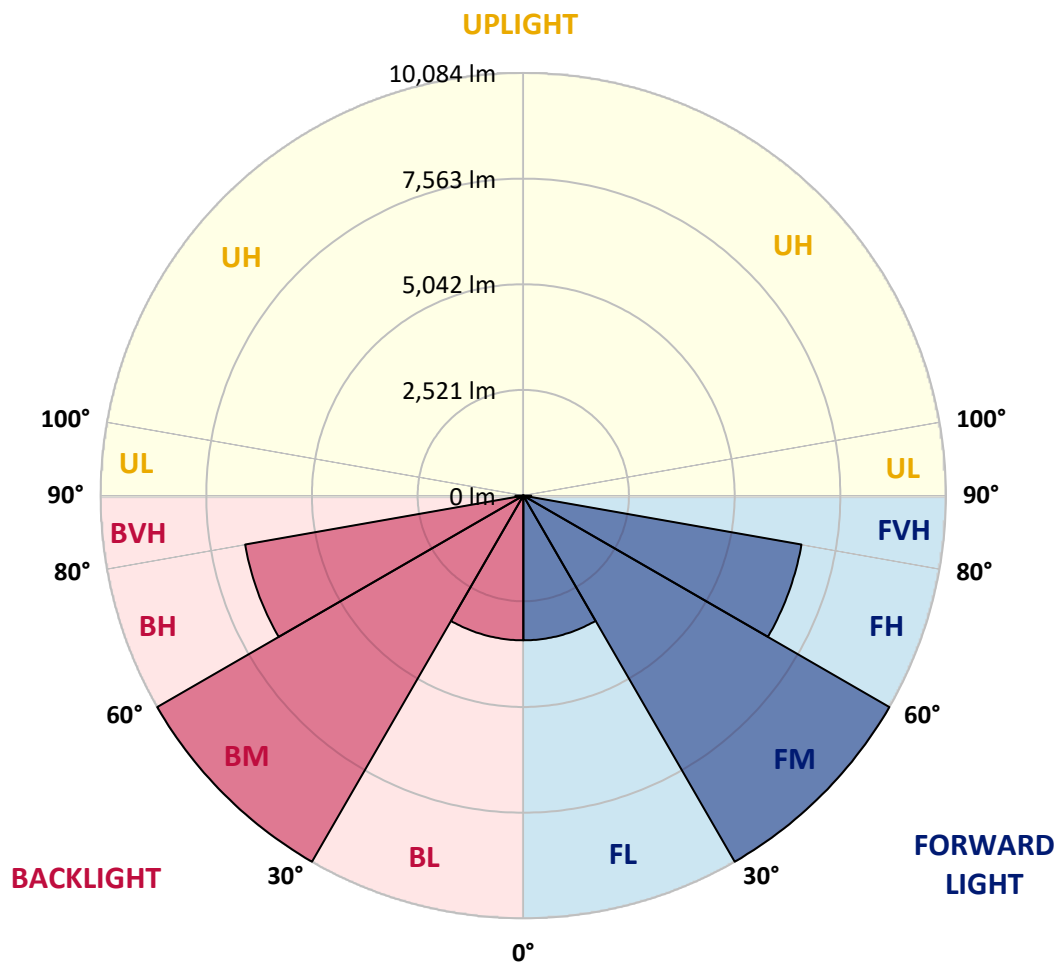
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3450.2	8.4			
FM	(30°-60°)	10083.6	24.6			
FH	(60°-80°)	6736.9	16.5			G3/7500
FVH	(80°-90°)	188.8	0.5			G2/225
BL	(0°-30°)	3450.2	8.4	B4/5000		
BM	(30°-60°)	10083.6	24.6	B5		
BH	(60°-80°)	6736.9	16.5	B5		G5
BVH	(80°-90°)	188.8	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°	7243.9	7243.9	7243.9	7243.9	7243.9	7243.9	7243.9	7243.9	7243.9	7243.9	7243.9
2.5°	7336.8	7332.3	7334.6	7332.3	7339.1	7334.6	7307.4	7284.7	7266.6	7268.9	7262.1
5°	7493.2	7495.4	7497.7	7486.4	7502.2	7493.2	7450.1	7413.9	7377.6	7364.0	7359.5
7.5°	7622.3	7633.7	7640.5	7651.8	7679.0	7679.0	7656.3	7604.2	7524.9	7479.6	7477.3
10°	7751.5	7760.6	7780.9	7817.2	7862.5	7905.6	7896.5	7826.3	7724.3	7647.3	7629.1
12.5°	7796.8	7808.1	7876.1	7980.3	8082.3	8166.1	8166.1	8109.5	7978.1	7860.2	7826.3
15°	7638.2	7658.6	7780.9	8003.0	8270.4	8453.9	8494.7	8415.4	8274.9	8093.6	8052.8
17.5°	7323.2	7373.1	7552.1	7880.6	8324.7	8705.4	8823.2	8784.7	8603.4	8372.3	8324.7
20°	6985.6	7040.0	7230.3	7665.4	8279.4	8852.7	9194.8	9203.9	8979.6	8644.2	8574.0
22.5°	6614.0	6654.8	6899.5	7409.3	8143.5	8886.7	9514.3	9670.7	9367.0	8916.1	8816.4
25°	6197.1	6242.4	6498.5	7049.1	7887.4	8848.2	9806.6	10151.0	9772.6	9206.2	9079.3
27.5°	5798.3	5816.4	6090.6	6650.3	7549.8	8748.5	10021.9	10592.9	10221.3	9446.3	9285.5
30°	5415.4	5458.4	5700.9	6253.8	7162.4	8553.6	10207.7	11095.9	10703.9	9697.9	9491.7
32.5°	5009.8	5061.9	5324.8	5884.4	6774.9	8261.3	10321.0	11646.5	11376.9	10105.7	9885.9
35°	4620.1	4654.1	4919.2	5463.0	6396.5	7921.4	10341.4	12267.3	12244.7	10724.3	10432.0
37.5°	4221.3	4271.1	4538.5	5059.7	5995.5	7561.2	10239.4	12926.7	13291.5	11583.0	11268.1
40°	3838.4	3881.4	4144.2	4669.9	5540.0	7121.6	9997.0	13529.4	14512.8	12466.7	12020.4
42.5°	3421.4	3432.8	3720.5	4255.3	5093.6	6611.8	9648.0	14066.4	15874.6	13651.8	13096.6
45°	2947.9	2977.3	3244.7	3770.4	4581.6	6040.8	9174.4	14510.5	17601.2	15294.5	14537.7
47.5°	2474.3	2499.2	2743.9	3262.8	4021.9	5385.9	8444.8	14900.3	19373.1	17381.4	16388.9
50°	2012.1	2025.7	2225.1	2685.0	3392.0	4697.1	7540.8	15024.9	21376.1	20336.0	19069.4
52.5°	1590.6	1611.0	1762.8	2123.1	2719.0	3883.7	6564.2	14716.7	23714.4	23839.1	22053.6
55°	1289.3	1296.1	1409.4	1674.5	2125.4	3031.7	5385.9	13858.0	26229.5	28327.7	26050.5
57.5°	1110.3	1114.8	1178.2	1325.5	1635.9	2286.2	4178.2	12233.3	28488.6	33586.8	30659.3
60°	1008.3	1010.6	1046.8	1132.9	1296.1	1753.8	2993.2	9940.3	30718.2	39439.5	36387.4
62.5°	944.9	944.9	969.8	1017.4	1096.7	1345.9	2168.4	7171.4	32245.4	45378.3	43447.8
65°	883.7	883.7	901.8	935.8	978.8	1101.2	1602.0	4676.7	32206.9	49703.8	50548.9
67.5°	813.4	813.4	827.0	861.0	885.9	947.1	1237.2	3063.4	28930.4	49608.6	54423.6
70°	729.6	729.6	747.7	777.2	797.6	836.1	976.6	2095.9	21253.7	42357.9	48400.9
72.5°	645.8	648.0	659.4	688.8	704.7	727.3	811.2	1468.3	13037.7	28842.1	33842.8
75°	552.9	557.4	568.7	598.2	611.8	620.8	684.3	1046.8	6595.9	15550.6	17705.4
77.5°	446.4	455.4	462.2	494.0	503.0	516.6	564.2	756.8	2895.8	5587.6	5637.4
80°	326.3	337.6	358.0	387.5	394.3	403.3	430.5	537.0	1311.9	2551.4	2771.1
82.5°	240.2	256.0	231.1	269.6	269.6	258.3	303.6	360.3	602.7	2526.4	3022.6
85°	131.4	133.7	120.1	138.2	147.3	145.0	160.9	176.7	292.3	1685.8	1737.9
87.5°	31.7	34.0	36.3	43.1	52.1	52.1	56.6	49.8	95.2	546.1	312.7
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)