

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: P458500

Luminaire Tested: **GALN-SA9D-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458500
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-SA9D-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 55631 lumens
Efficiency: N/A
Efficacy: 100.8 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): 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

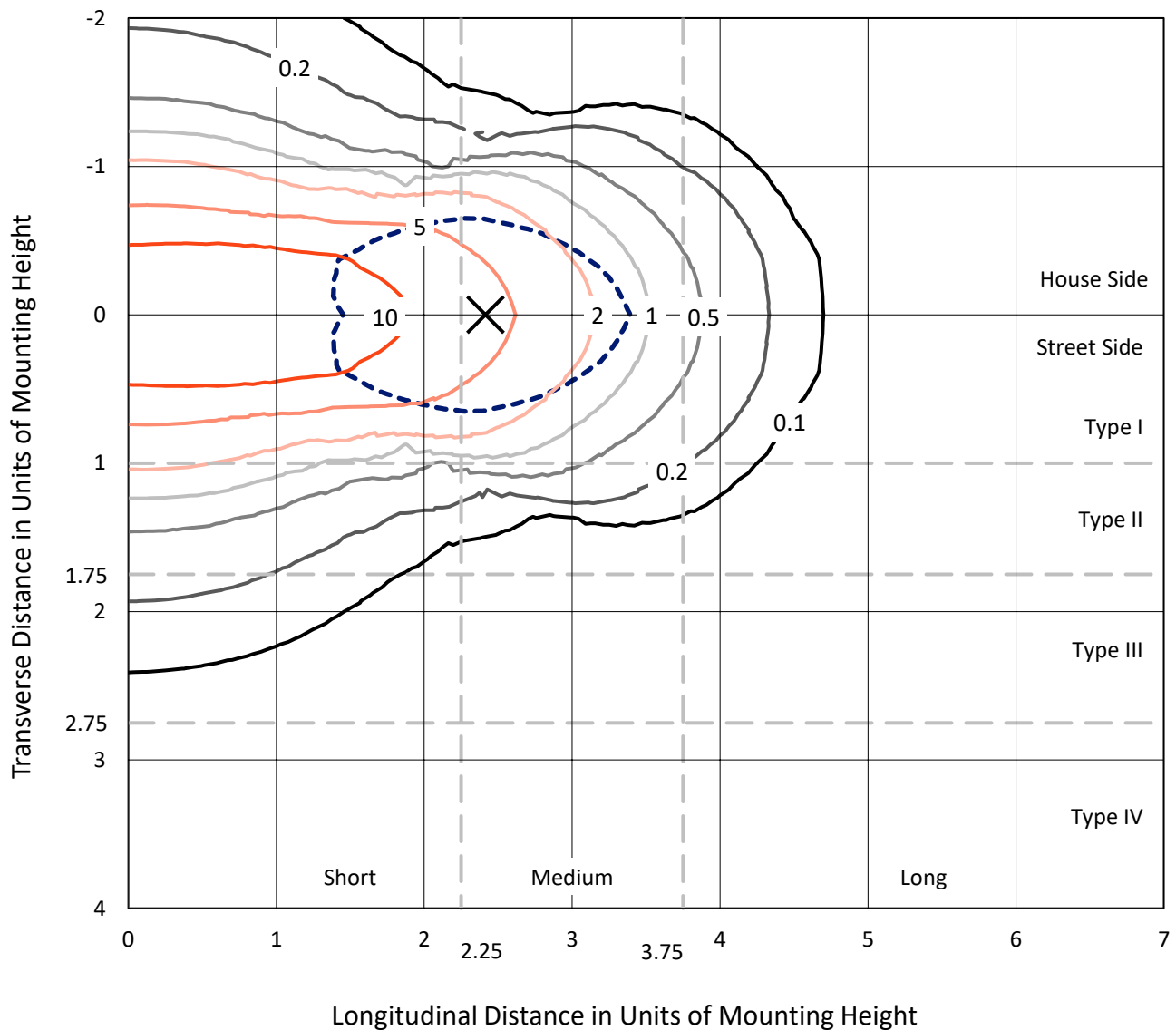


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

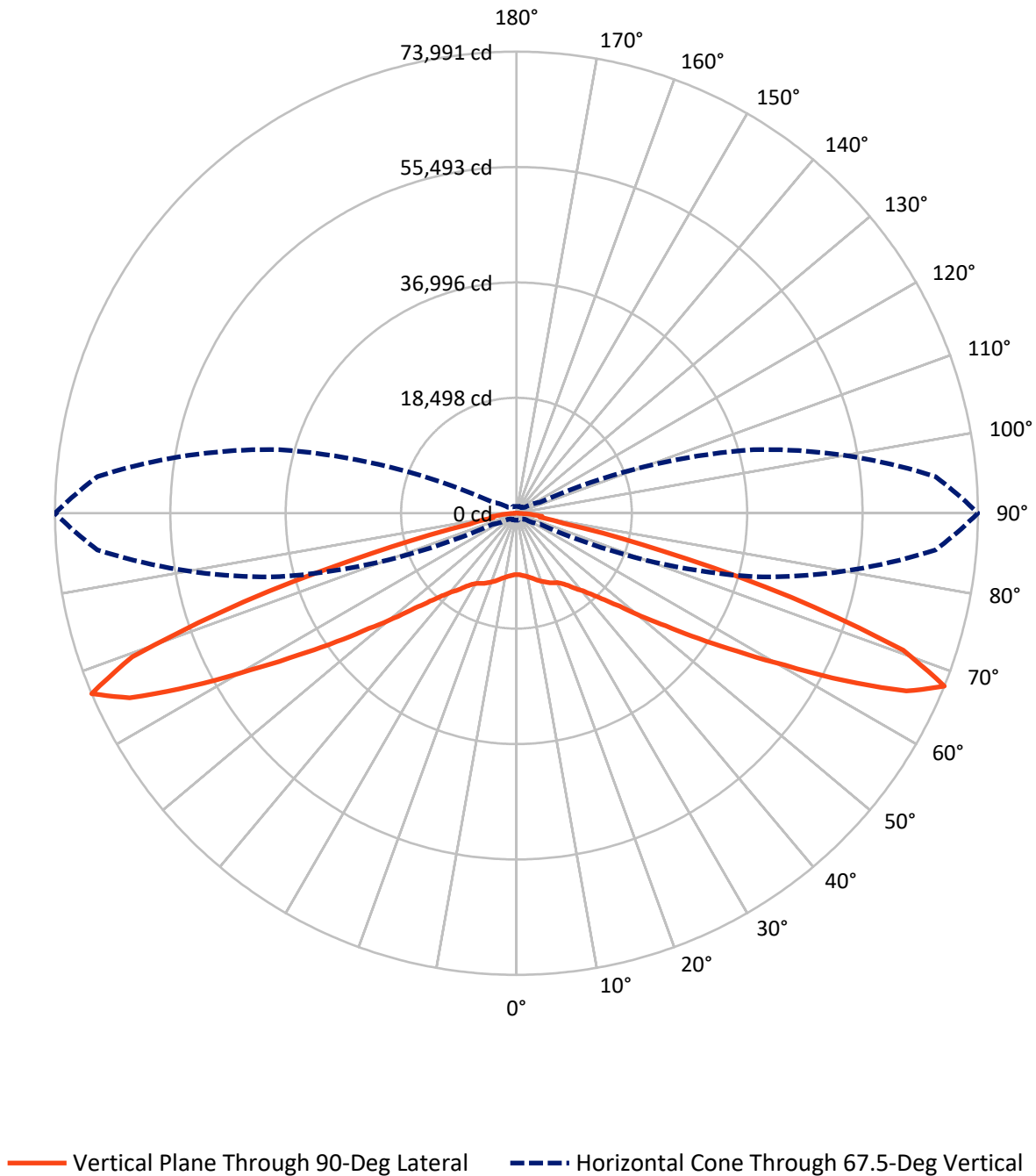


Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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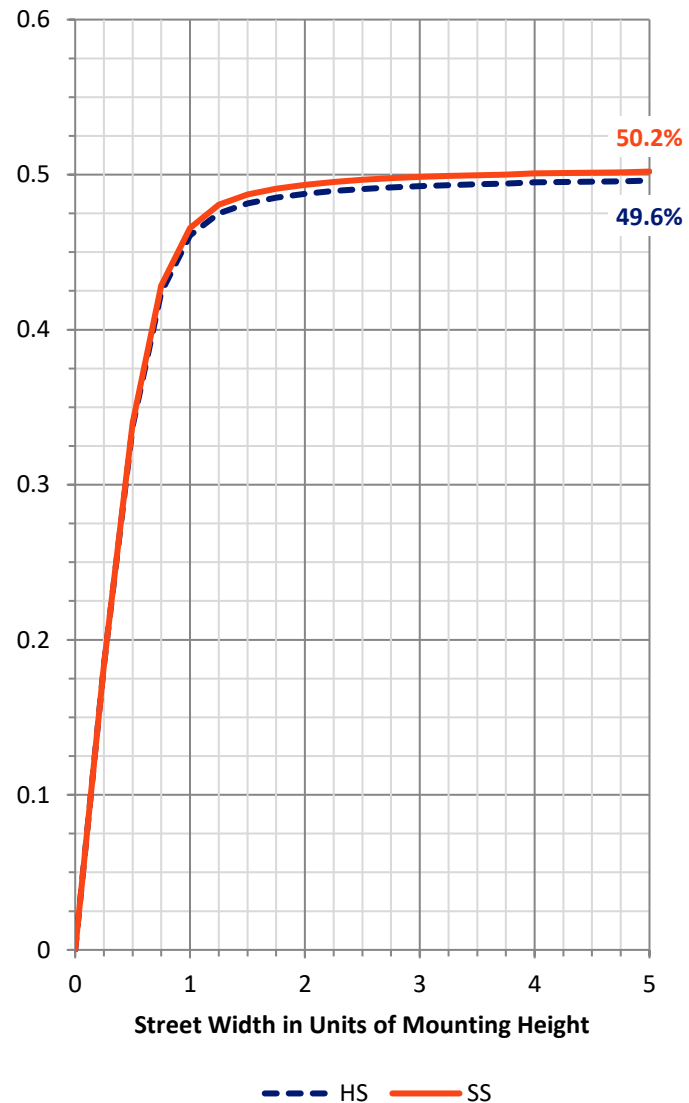
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27815.5	0.0	27815.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27815.5	0.0	27815.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	55631.0	0.0	55631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	981.9	1.8
10°-20°	3141.5	5.6
20°-30°	5258.1	9.5
30°-40°	7123.3	12.8
40°-50°	9022.8	16.2
50°-60°	11271.8	20.3
60°-70°	13249.5	23.8
70°-80°	5068.5	9.1
80°-90°	513.5	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°	55631.0	100.0
0°-180°	55631.0	100.0

Coefficient of Utilization



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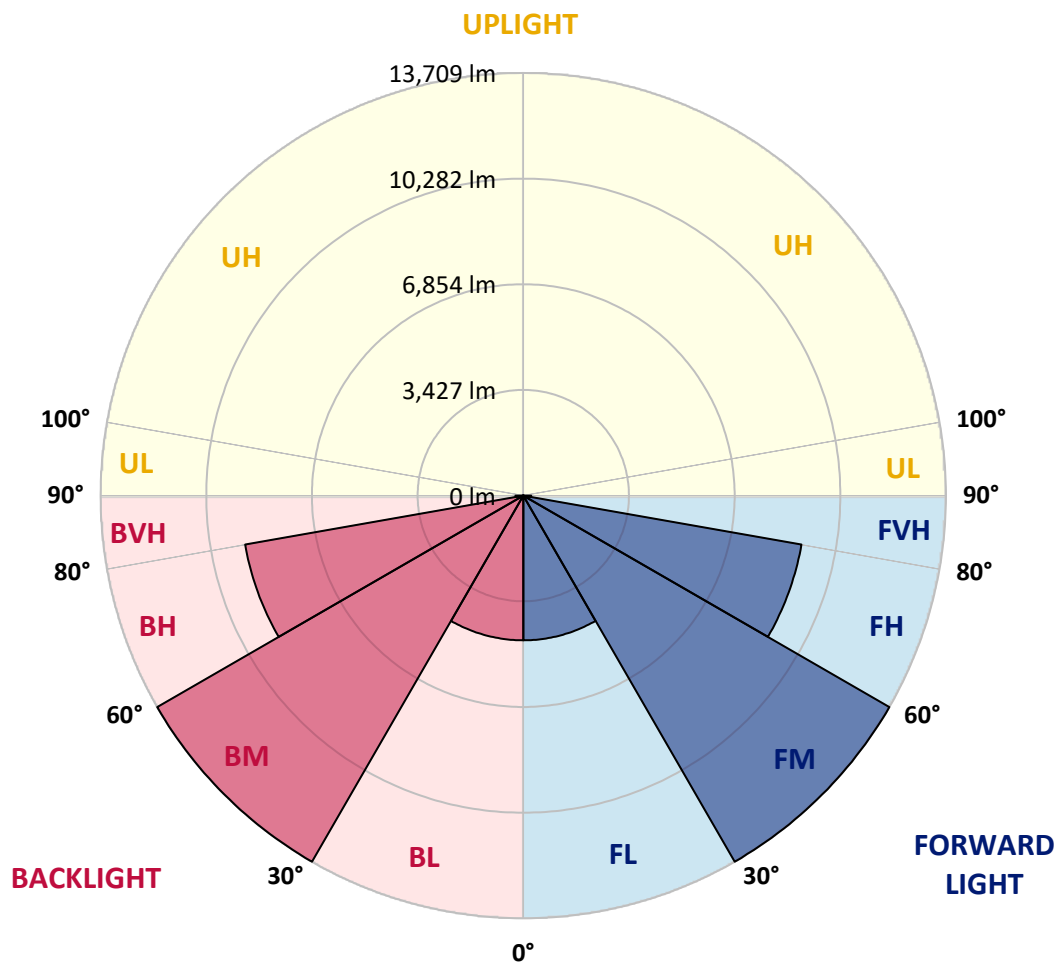
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4690.7	8.4			
FM	(30°-60°)	13709.0	24.6			
FH	(60°-80°)	9159.0	16.5			G4/12000
FVH	(80°-90°)	256.8	0.5			G3/500
BL	(0°-30°)	4690.7	8.4	B4/5000		
BM	(30°-60°)	13709.0	24.6	B5		
BH	(60°-80°)	9159.0	16.5	B5		G5
BVH	(80°-90°)	256.8	0.5			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9848.4	9848.4	9848.4	9848.4	9848.4	9848.4	9848.4	9848.4	9848.4	9848.4	9848.4
2.5°	9974.7	9968.6	9971.6	9968.6	9977.8	9971.6	9934.7	9903.9	9879.2	9882.3	9873.1
5°	10187.3	10190.4	10193.4	10178.0	10199.6	10187.3	10128.7	10079.5	10030.2	10011.7	10005.5
7.5°	10362.9	10378.3	10387.5	10402.9	10439.9	10439.9	10409.1	10338.2	10230.4	10168.8	10165.7
10°	10538.5	10550.8	10578.5	10627.8	10689.4	10747.9	10735.6	10640.1	10501.5	10396.8	10372.1
12.5°	10600.1	10615.5	10707.9	10849.6	10988.2	11102.2	11102.2	11025.2	10846.5	10686.3	10640.1
15°	10384.4	10412.2	10578.5	10880.4	11243.9	11493.4	11548.9	11441.0	11250.1	11003.6	10948.2
17.5°	9956.2	10024.0	10267.4	10714.0	11317.8	11835.4	11995.5	11943.2	11696.7	11382.5	11317.8
20°	9497.2	9571.2	9829.9	10421.4	11256.2	12035.6	12500.7	12513.1	12208.1	11752.2	11656.7
22.5°	8992.0	9047.5	9380.2	10073.3	11071.4	12081.8	12935.1	13147.7	12734.9	12121.8	11986.3
25°	8425.2	8486.8	8834.9	9583.5	10723.3	12029.4	13332.5	13800.7	13286.3	12516.1	12343.6
27.5°	7883.0	7907.7	8280.4	9041.3	10264.3	11893.9	13625.1	14401.4	13896.2	12842.7	12624.0
30°	7362.4	7421.0	7750.6	8502.2	9737.5	11629.0	13877.7	15085.3	14552.4	13184.6	12904.3
32.5°	6811.0	6881.9	7239.2	8000.1	9210.8	11231.6	14031.8	15833.9	15467.3	13739.1	13440.3
35°	6281.2	6327.4	6687.8	7427.1	8696.3	10769.5	14059.5	16677.9	16647.1	14580.1	14182.7
37.5°	5739.0	5806.8	6170.3	6878.8	8151.1	10279.7	13920.9	17574.4	18070.3	15747.6	15319.4
40°	5218.4	5276.9	5634.3	6348.9	7531.9	9682.1	13591.2	18393.8	19730.7	16949.0	16342.2
42.5°	4651.6	4667.0	5058.2	5785.2	6925.0	8989.0	13116.8	19123.9	21582.1	18560.1	17805.4
45°	4007.8	4047.8	4411.3	5126.0	6228.8	8212.7	12473.0	19727.6	23929.5	20793.5	19764.6
47.5°	3363.9	3397.8	3730.5	4435.9	5467.9	7322.4	11481.1	20257.5	26338.4	23630.7	22281.4
50°	2735.5	2754.0	3025.1	3650.4	4611.5	6385.9	10252.0	20426.9	29061.6	27647.7	25925.6
52.5°	2162.5	2190.2	2396.6	2886.4	3696.6	5280.0	8924.3	20008.0	32240.7	32410.1	29982.7
55°	1752.8	1762.1	1916.1	2276.5	2889.5	4121.7	7322.4	18840.5	35660.1	38512.6	35416.7
57.5°	1509.5	1515.6	1601.9	1802.1	2224.1	3108.2	5680.5	16631.7	38731.4	45662.5	41682.5
60°	1370.8	1373.9	1423.2	1540.3	1762.1	2384.3	4069.4	13514.2	41762.6	53619.5	49470.1
62.5°	1284.6	1284.6	1318.5	1383.2	1491.0	1829.8	2948.1	9749.8	43838.9	61693.6	59069.0
65°	1201.4	1201.4	1226.0	1272.3	1330.8	1497.1	2177.9	6358.2	43786.5	67574.3	68723.3
67.5°	1105.9	1105.9	1124.4	1170.6	1204.5	1287.7	1682.0	4164.9	39332.1	67444.9	73991.0
70°	991.9	991.9	1016.6	1056.6	1084.3	1136.7	1327.7	2849.5	28895.3	57587.2	65803.0
72.5°	877.9	881.0	896.4	936.5	958.0	988.8	1102.8	1996.2	17725.3	39211.9	46010.6
75°	751.6	757.8	773.2	813.3	831.7	844.1	930.3	1423.2	8967.4	21141.6	24071.2
77.5°	606.9	619.2	628.4	671.6	683.9	702.4	767.0	1028.9	3936.9	7596.6	7664.3
80°	443.6	459.0	486.7	526.8	536.0	548.3	585.3	730.1	1783.6	3468.7	3767.5
82.5°	326.5	348.1	314.2	366.6	366.6	351.2	412.8	489.8	819.4	3434.8	4109.4
85°	178.7	181.8	163.3	187.9	200.2	197.2	218.7	240.3	397.4	2291.9	2362.8
87.5°	43.1	46.2	49.3	58.5	70.9	70.9	77.0	67.8	129.4	742.4	425.1
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)