

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: P457557

Luminaire Tested: **GALN-SA8D-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51805 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 493
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



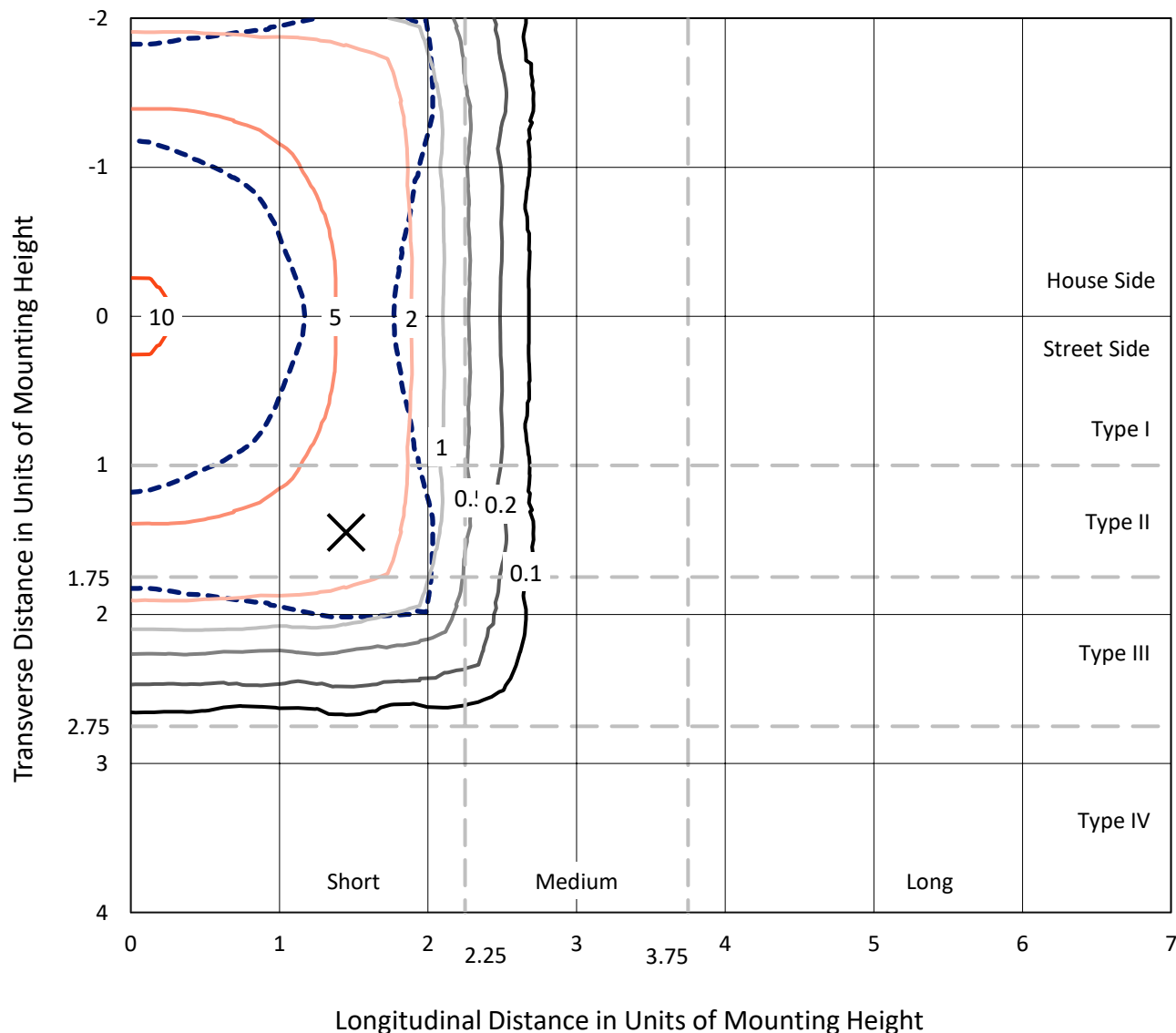
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



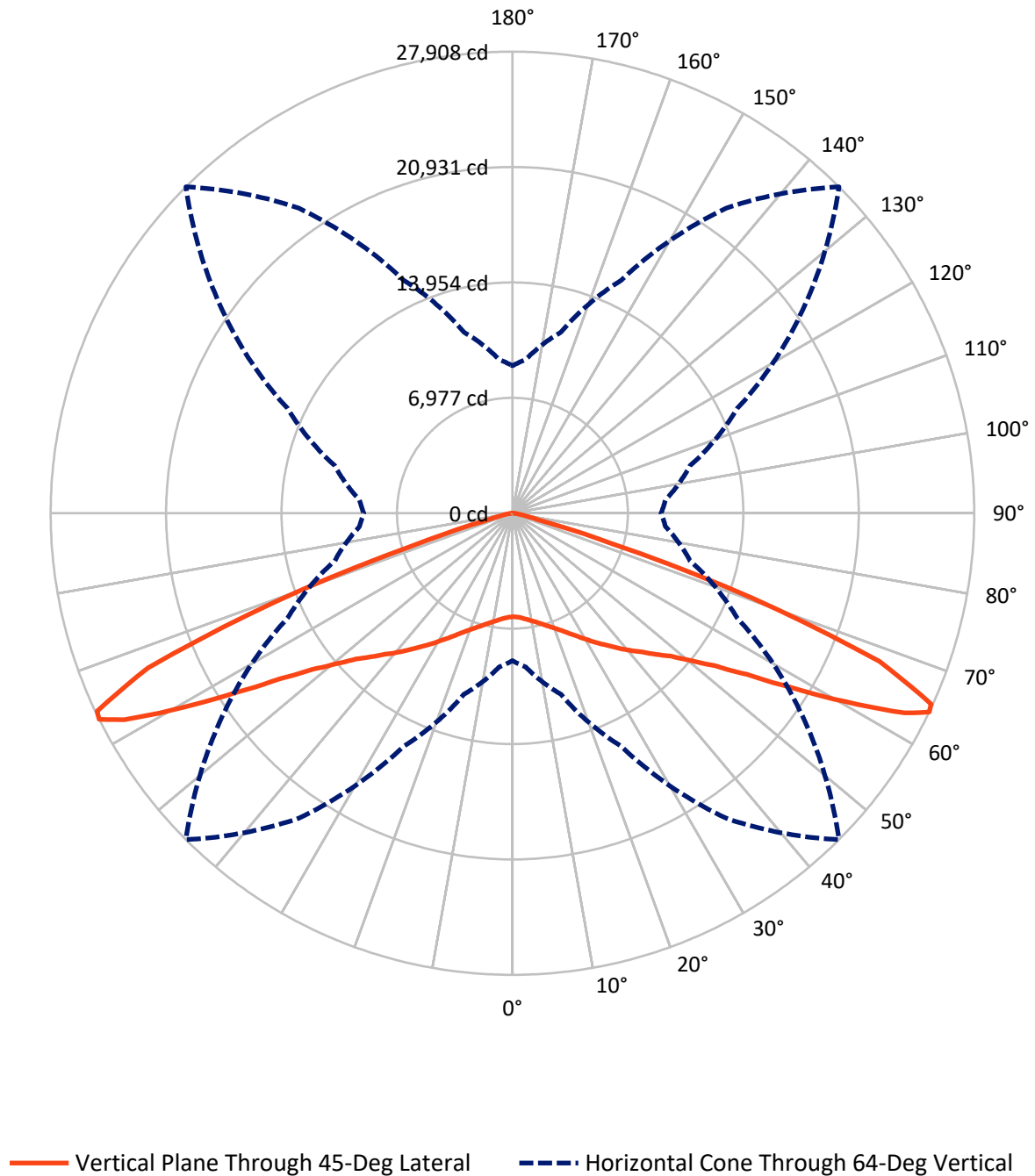
Based on 25 foot mounting height. Maximum calculated value = 10.1 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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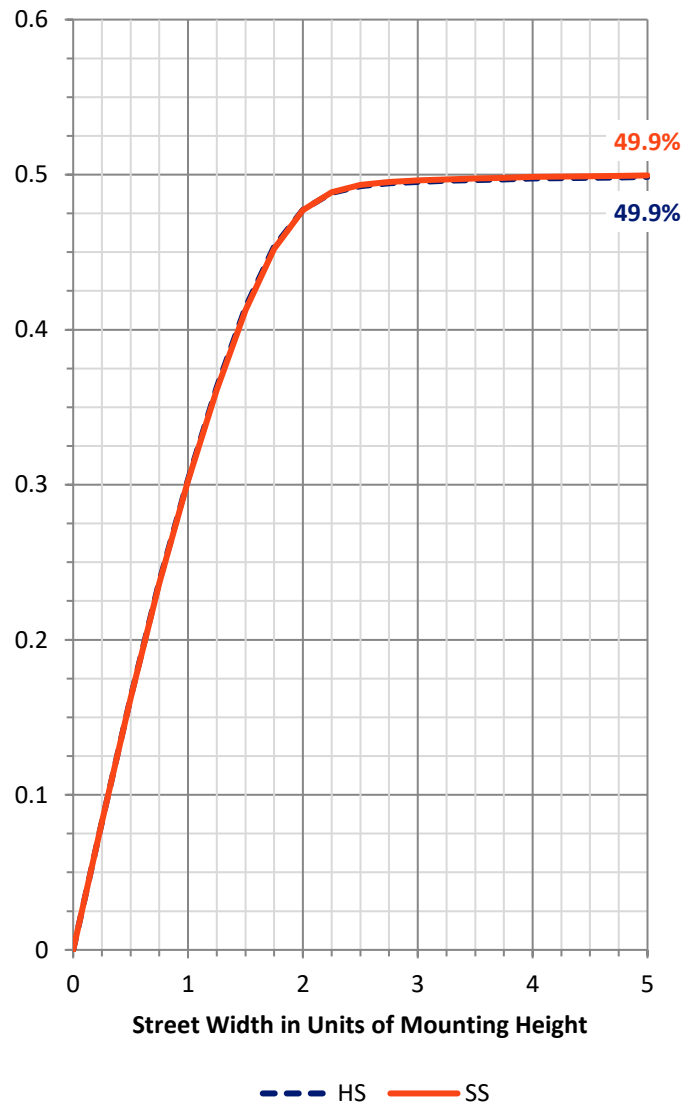
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25902.5	0.0	25902.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25902.5	0.0	25902.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	51805.0	0.0	51805.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.2	1.2
10°-20°	1984.2	3.8
20°-30°	3749.7	7.2
30°-40°	6209.9	12.0
40°-50°	9694.6	18.7
50°-60°	14987.7	28.9
60°-70°	12923.7	24.9
70°-80°	1464.6	2.8
80°-90°	175.5	0.3
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°	51805.0	100.0
0°-180°	51805.0	100.0

Coefficient of Utilization



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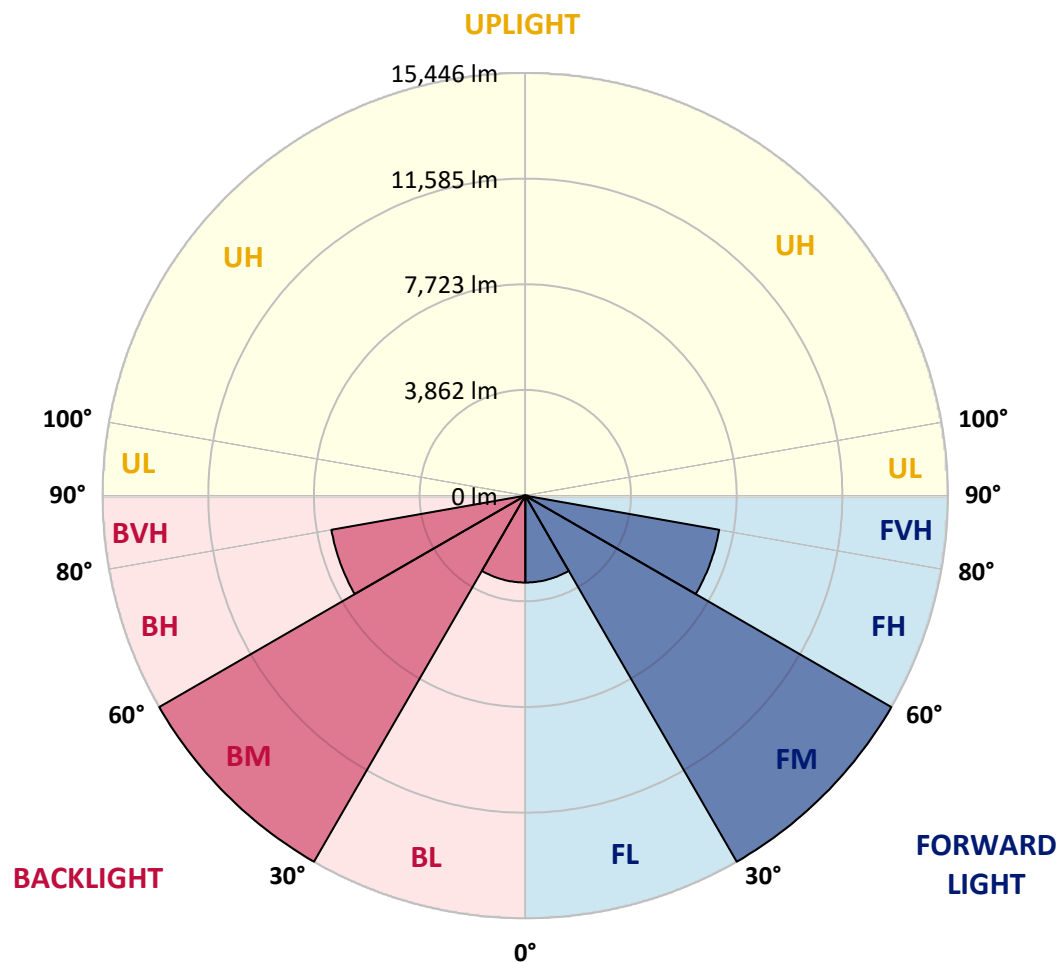
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3174.5	6.1			
FM	(30°-60°)	15446.1	29.8			
FH	(60°-80°)	7194.1	13.9			G3/7500
FVH	(80°-90°)	87.7	0.2			G1/100
BL	(0°-30°)	3174.5	6.1	B4/5000		
BM	(30°-60°)	15446.1	29.8	B5		
BH	(60°-80°)	7194.1	13.9	B5		G3/7500
BVH	(80°-90°)	87.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6261.5	6261.5	6261.5	6261.5	6261.5	6261.5	6261.5	6261.5	6261.5	6261.5	6261.5
2.5°	6286.2	6299.9	6288.9	6286.2	6283.5	6283.5	6283.5	6286.2	6297.2	6305.4	6299.9
5°	6365.8	6376.7	6371.3	6368.5	6365.8	6365.8	6363.0	6360.3	6368.5	6368.5	6365.8
7.5°	6464.6	6478.3	6472.8	6478.3	6481.0	6483.8	6470.0	6459.1	6456.3	6464.6	6459.1
10°	6599.0	6610.0	6612.7	6615.5	6621.0	6618.2	6601.7	6582.5	6579.8	6577.1	6574.3
12.5°	6749.9	6758.1	6760.9	6771.9	6780.1	6782.8	6763.6	6747.2	6719.7	6725.2	6714.2
15°	6920.0	6936.5	6933.8	6950.2	6972.2	6977.7	6958.4	6931.0	6906.3	6892.6	6884.4
17.5°	7128.6	7139.5	7134.1	7150.5	7178.0	7191.7	7175.2	7139.5	7114.8	7084.7	7068.2
20°	7375.5	7394.7	7400.2	7400.2	7424.9	7438.6	7413.9	7403.0	7364.5	7342.6	7328.9
22.5°	7655.4	7663.6	7680.1	7696.5	7721.2	7715.8	7707.5	7691.1	7655.4	7636.2	7614.2
25°	7970.9	7979.2	8020.3	8056.0	8064.2	8058.7	8047.8	8039.5	8006.6	7962.7	7946.2
27.5°	8338.6	8355.1	8410.0	8442.9	8442.9	8445.6	8423.7	8451.1	8379.8	8327.6	8322.1
30°	8799.6	8810.6	8857.2	8890.1	8873.7	8859.9	8854.5	8881.9	8805.1	8711.8	8689.8
32.5°	9255.1	9293.5	9334.6	9406.0	9348.4	9323.7	9318.2	9337.4	9249.6	9145.3	9115.1
35°	9743.5	9770.9	9847.7	9908.1	9856.0	9798.4	9823.0	9883.4	9779.1	9639.2	9633.7
37.5°	10284.0	10308.7	10407.5	10470.6	10432.2	10333.4	10374.6	10445.9	10341.6	10168.8	10133.1
40°	10846.5	10898.6	11022.1	11088.0	11024.9	10893.2	10970.0	11046.8	10953.5	10753.2	10673.6
42.5°	11477.6	11559.9	11738.3	11771.2	11650.5	11472.1	11606.6	11730.0	11664.2	11433.7	11403.5
45°	12215.7	12265.1	12484.6	12555.9	12388.6	12166.3	12333.7	12558.7	12509.3	12243.1	12185.5
47.5°	13041.6	13088.2	13316.0	13423.0	13211.7	12912.6	13214.5	13508.1	13477.9	13192.5	13165.1
50°	14018.4	14029.4	14344.9	14465.7	14254.4	13996.5	14265.4	14630.3	14509.6	14144.6	14139.1
52.5°	15088.5	15102.2	15500.1	15733.3	15615.3	15324.5	15642.8	15865.0	15557.7	15080.3	15044.6
55°	16016.0	16084.6	16627.8	17248.0	17409.8	17198.6	17294.6	17190.3	16433.0	15763.5	15659.3
57.5°	16394.6	16529.1	17355.0	18512.9	19566.5	19879.3	19138.5	18145.2	16781.5	15834.9	15733.3
60°	15469.9	15615.3	16896.7	19094.6	21783.6	23141.8	21059.2	18307.1	15988.5	14657.7	14498.6
62.5°	12388.6	12429.7	14314.8	17725.4	23075.9	26593.6	21868.6	16926.9	13680.9	11872.7	11809.6
64°	8914.8	9337.4	11334.9	15541.3	22510.7	27907.9	21402.2	14992.5	11112.7	9282.5	8986.2
65°	6667.6	6782.8	9137.1	13272.1	21514.7	27809.1	20496.7	13143.1	9202.9	7103.9	6774.6
67.5°	2518.9	2532.6	3372.2	6615.5	15316.3	23926.5	15642.8	7150.5	3877.1	2804.2	2702.7
70°	1045.4	1064.6	1237.5	2225.3	6582.5	15362.9	7542.9	2579.2	1418.6	1149.7	1133.2
72.5°	765.5	776.5	828.6	987.8	2025.0	6308.2	2480.5	1094.8	831.4	743.6	735.4
75°	600.9	606.4	644.8	727.1	943.9	1747.8	1031.7	751.8	633.8	570.7	565.2
77.5°	458.2	471.9	499.4	554.3	633.8	828.6	683.2	562.5	488.4	436.3	428.0
80°	315.5	332.0	384.1	406.1	425.3	537.8	466.5	425.3	381.4	318.3	299.1
82.5°	194.8	205.8	257.9	277.1	268.9	301.8	299.1	304.6	271.6	197.6	183.8
85°	101.5	107.0	139.9	145.4	134.4	123.5	153.7	178.4	167.4	112.5	109.8
87.5°	22.0	24.7	30.2	27.4	30.2	30.2	38.4	57.6	60.4	38.4	35.7
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)