

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: P458253

Luminaire Tested: **GALN-SA9C-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458253
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-SA9C-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52856 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 481
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

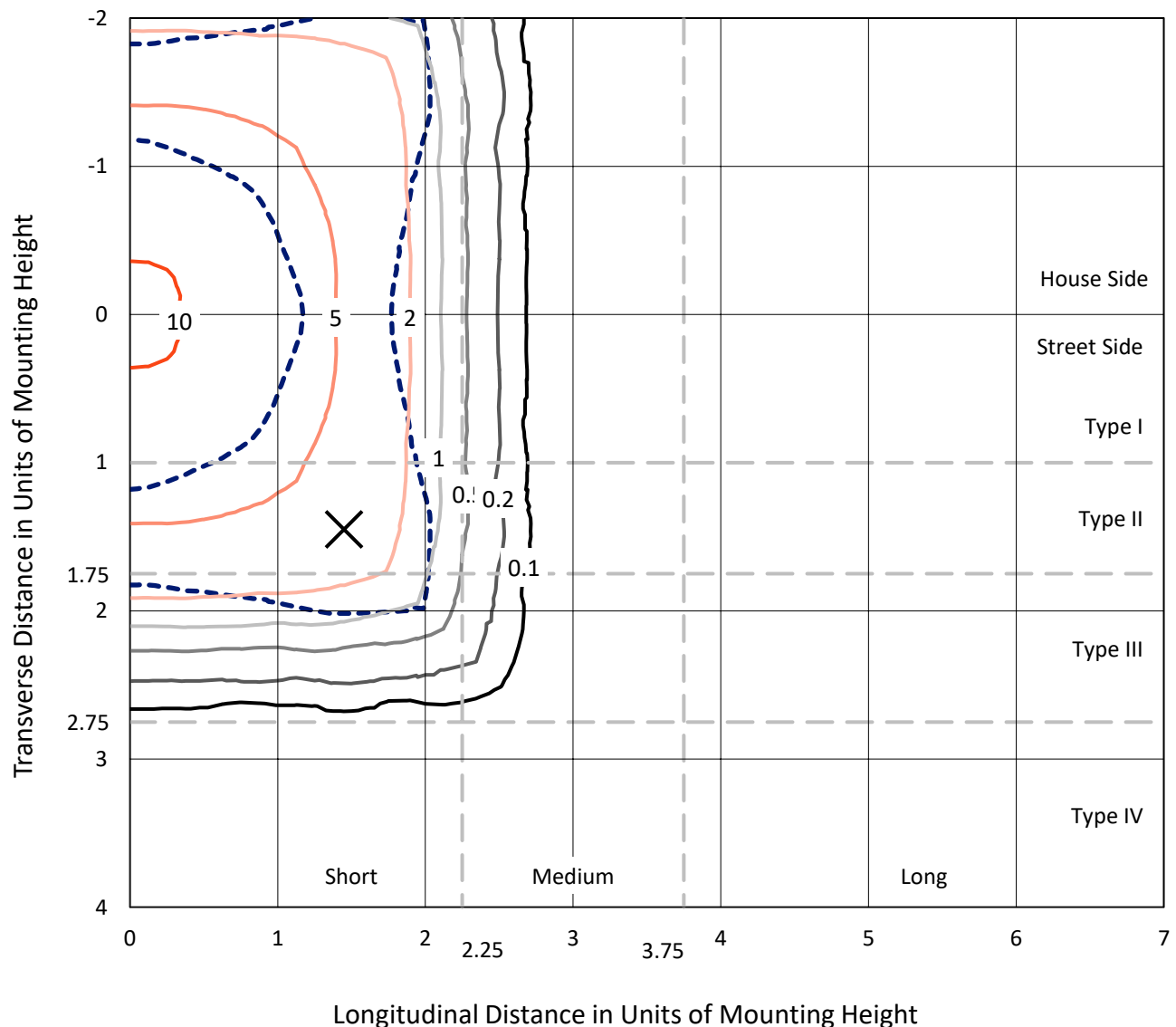


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



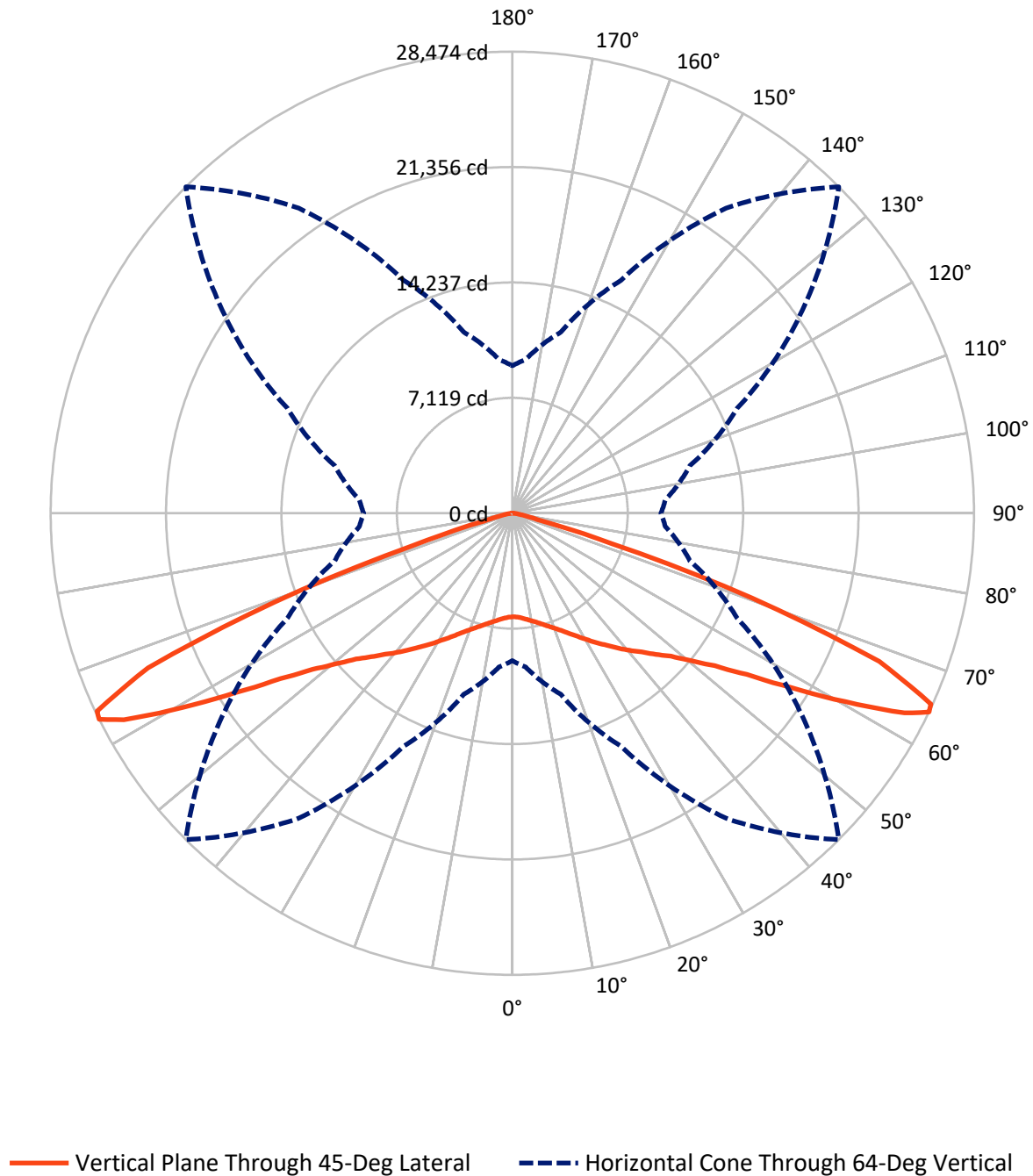
Based on 25 foot mounting height. Maximum calculated value = 10.3 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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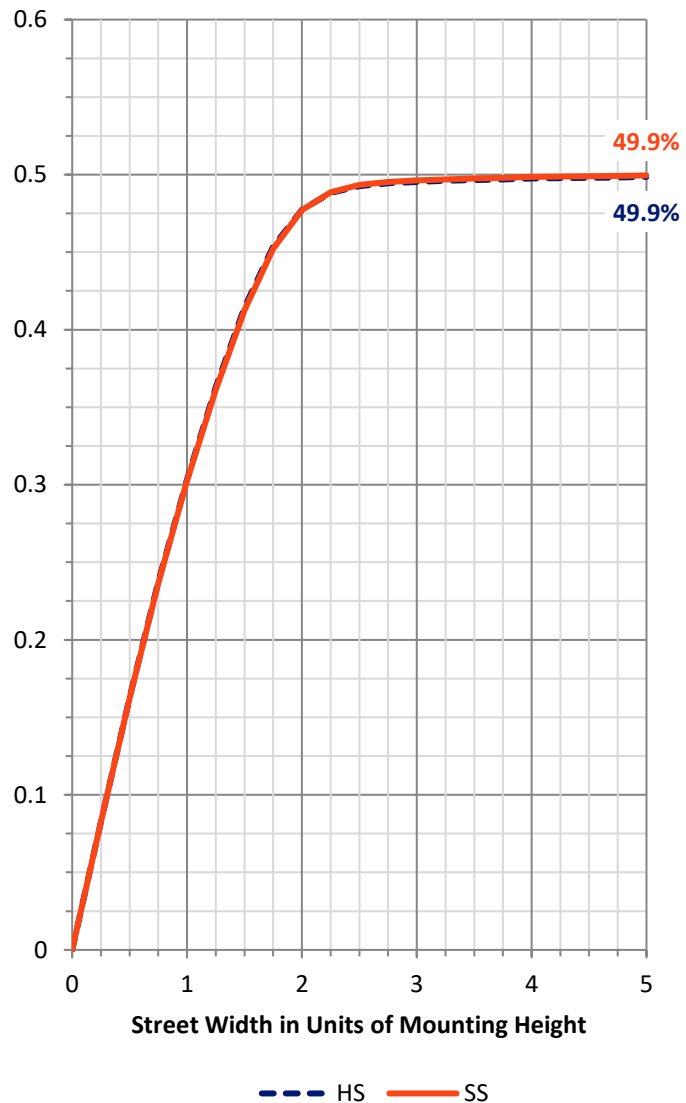
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26428.0	0.0	26428.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26428.0	0.0	26428.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	52856.0	0.0	52856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.6	1.2
10°-20°	2024.5	3.8
20°-30°	3825.7	7.2
30°-40°	6335.9	12.0
40°-50°	9891.3	18.7
50°-60°	15291.7	28.9
60°-70°	13185.9	24.9
70°-80°	1494.3	2.8
80°-90°	179.0	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°	52856.0	100.0
0°-180°	52856.0	100.0

Coefficient of Utilization



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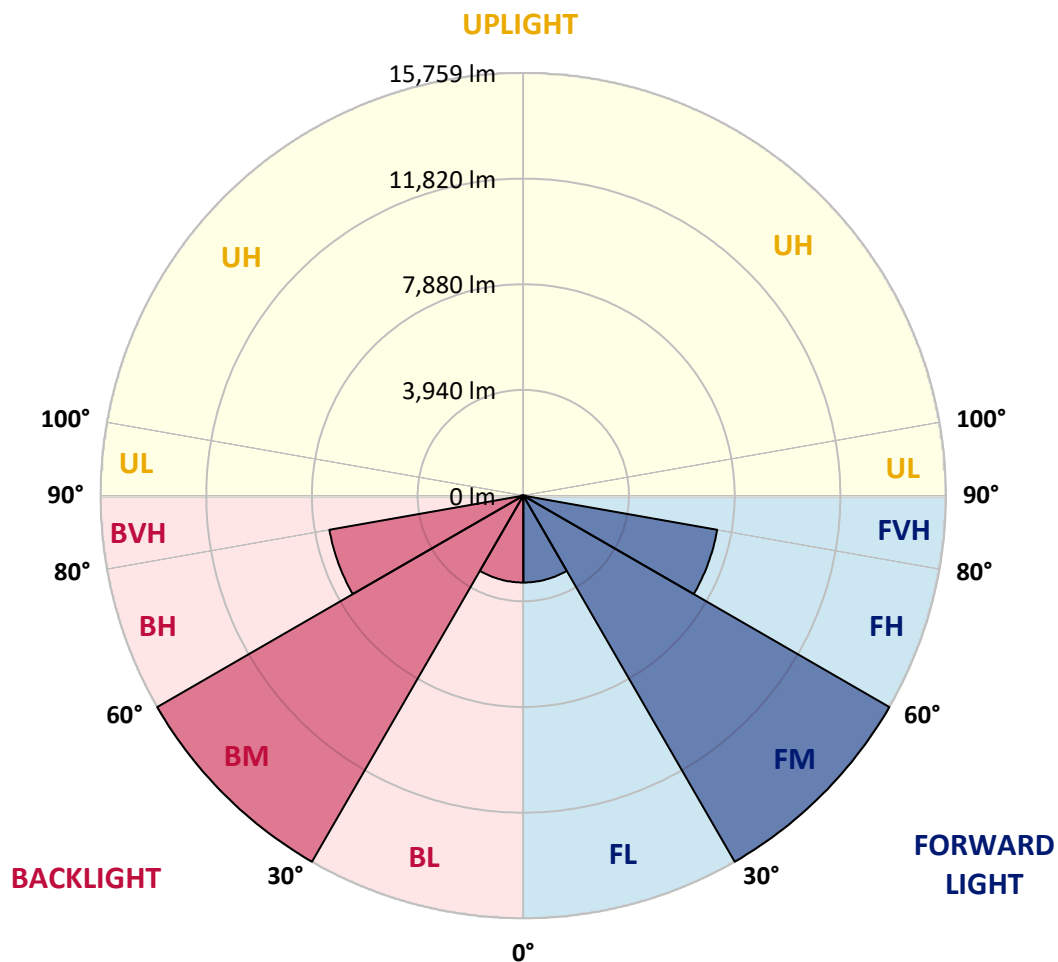
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3238.9	6.1			
FM	(30°-60°)	15759.4	29.8			
FH	(60°-80°)	7340.1	13.9			G3/7500
FVH	(80°-90°)	89.5	0.2			G1/100
BL	(0°-30°)	3238.9	6.1	B4/5000		
BM	(30°-60°)	15759.4	29.8	B5		
BH	(60°-80°)	7340.1	13.9	B5		G3/7500
BVH	(80°-90°)	89.5	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°	6388.5	6388.5	6388.5	6388.5	6388.5	6388.5	6388.5	6388.5	6388.5	6388.5	6388.5
2.5°	6413.7	6427.7	6416.5	6413.7	6410.9	6410.9	6410.9	6413.7	6424.9	6433.3	6427.7
5°	6494.9	6506.1	6500.5	6497.7	6494.9	6497.7	6492.1	6489.3	6497.7	6497.7	6494.9
7.5°	6595.7	6609.7	6604.1	6609.7	6612.5	6615.3	6601.3	6590.1	6587.3	6595.7	6590.1
10°	6732.9	6744.1	6746.9	6749.7	6755.3	6752.5	6735.7	6716.1	6713.3	6710.5	6707.7
12.5°	6886.9	6895.3	6898.1	6909.2	6917.6	6920.4	6900.9	6884.1	6856.1	6861.7	6850.5
15°	7060.4	7077.2	7074.4	7091.2	7113.6	7119.2	7099.6	7071.6	7046.4	7032.4	7024.0
17.5°	7273.2	7284.4	7278.8	7295.6	7323.6	7337.6	7320.8	7284.4	7259.2	7228.4	7211.6
20°	7525.1	7544.7	7550.3	7550.3	7575.5	7589.5	7564.3	7553.1	7513.9	7491.6	7477.6
22.5°	7810.7	7819.1	7835.9	7852.7	7877.9	7872.3	7863.9	7847.1	7810.7	7791.1	7768.7
25°	8132.6	8141.0	8183.0	8219.4	8227.8	8222.2	8211.0	8202.6	8169.0	8124.2	8107.5
27.5°	8507.8	8524.6	8580.6	8614.2	8614.2	8617.0	8594.6	8622.6	8549.8	8496.6	8491.0
30°	8978.1	8989.3	9036.9	9070.5	9053.7	9039.7	9034.1	9062.1	8983.7	8888.5	8866.1
32.5°	9442.8	9482.0	9524.0	9596.8	9538.0	9512.8	9507.2	9526.8	9437.2	9330.8	9300.1
35°	9941.1	9969.1	10047.5	10109.1	10055.9	9997.1	10022.3	10083.9	9977.5	9834.8	9829.2
37.5°	10492.7	10517.8	10618.6	10683.0	10643.8	10543.0	10585.0	10657.8	10551.4	10375.1	10338.7
40°	11066.6	11119.7	11245.7	11312.9	11248.5	11114.1	11192.5	11270.9	11175.7	10971.4	10890.2
42.5°	11710.5	11794.4	11976.4	12010.0	11886.8	11704.9	11842.0	11968.0	11900.8	11665.7	11634.9
45°	12463.5	12513.9	12737.9	12810.7	12639.9	12413.1	12583.9	12813.5	12763.1	12491.5	12432.7
47.5°	13306.2	13353.8	13586.1	13695.3	13479.8	13174.6	13482.6	13782.1	13751.3	13460.2	13432.2
50°	14302.8	14314.0	14636.0	14759.1	14543.6	14280.4	14554.8	14927.1	14803.9	14431.6	14426.0
52.5°	15394.6	15408.6	15814.6	16052.5	15932.1	15635.4	15960.1	16186.9	15873.4	15386.2	15349.8
55°	16340.9	16410.9	16965.2	17597.9	17763.0	17547.5	17645.5	17539.1	16766.4	16083.3	15976.9
57.5°	16727.2	16864.4	17707.1	18888.5	19963.5	20282.6	19526.7	18513.3	17121.9	16156.1	16052.5
60°	15783.8	15932.1	17239.5	19482.0	22225.5	23611.3	21486.4	18678.5	16312.9	14955.1	14792.7
62.5°	12639.9	12681.9	14605.2	18085.0	23544.1	27133.1	22312.3	17270.3	13958.5	12113.6	12049.2
64°	9095.7	9526.8	11564.9	15856.6	22967.4	28474.1	21836.4	15296.7	11338.1	9470.8	9168.5
65°	6802.9	6920.4	9322.4	13541.3	21951.1	28373.3	20912.5	13409.8	9389.6	7248.0	6912.0
67.5°	2570.0	2584.0	3440.6	6749.7	15627.0	24411.9	15960.1	7295.6	3955.7	2861.1	2757.5
70°	1066.6	1086.2	1262.6	2270.4	6716.1	15674.6	7695.9	2631.6	1447.4	1173.0	1156.2
72.5°	781.1	792.3	845.5	1007.8	2066.1	6436.1	2530.8	1117.0	848.3	758.7	750.3
75°	613.1	618.7	657.9	741.9	963.0	1783.3	1052.6	767.1	646.7	582.3	576.7
77.5°	467.5	481.5	509.5	565.5	646.7	845.5	697.1	573.9	498.3	445.1	436.7
80°	321.9	338.7	391.9	414.3	433.9	548.7	475.9	433.9	389.1	324.7	305.1
82.5°	198.8	210.0	263.2	282.8	274.4	307.9	305.1	310.7	277.2	201.6	187.6
85°	103.6	109.2	142.8	148.4	137.2	126.0	156.8	182.0	170.8	114.8	112.0
87.5°	22.4	25.2	30.8	28.0	30.8	30.8	39.2	58.8	61.6	39.2	36.4
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)