

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: P456397

Luminaire Tested: **GALN-SA7C-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456397
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-SA7C-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 40610 lumens
Efficiency: N/A
Efficacy: 107.7 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): 377
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

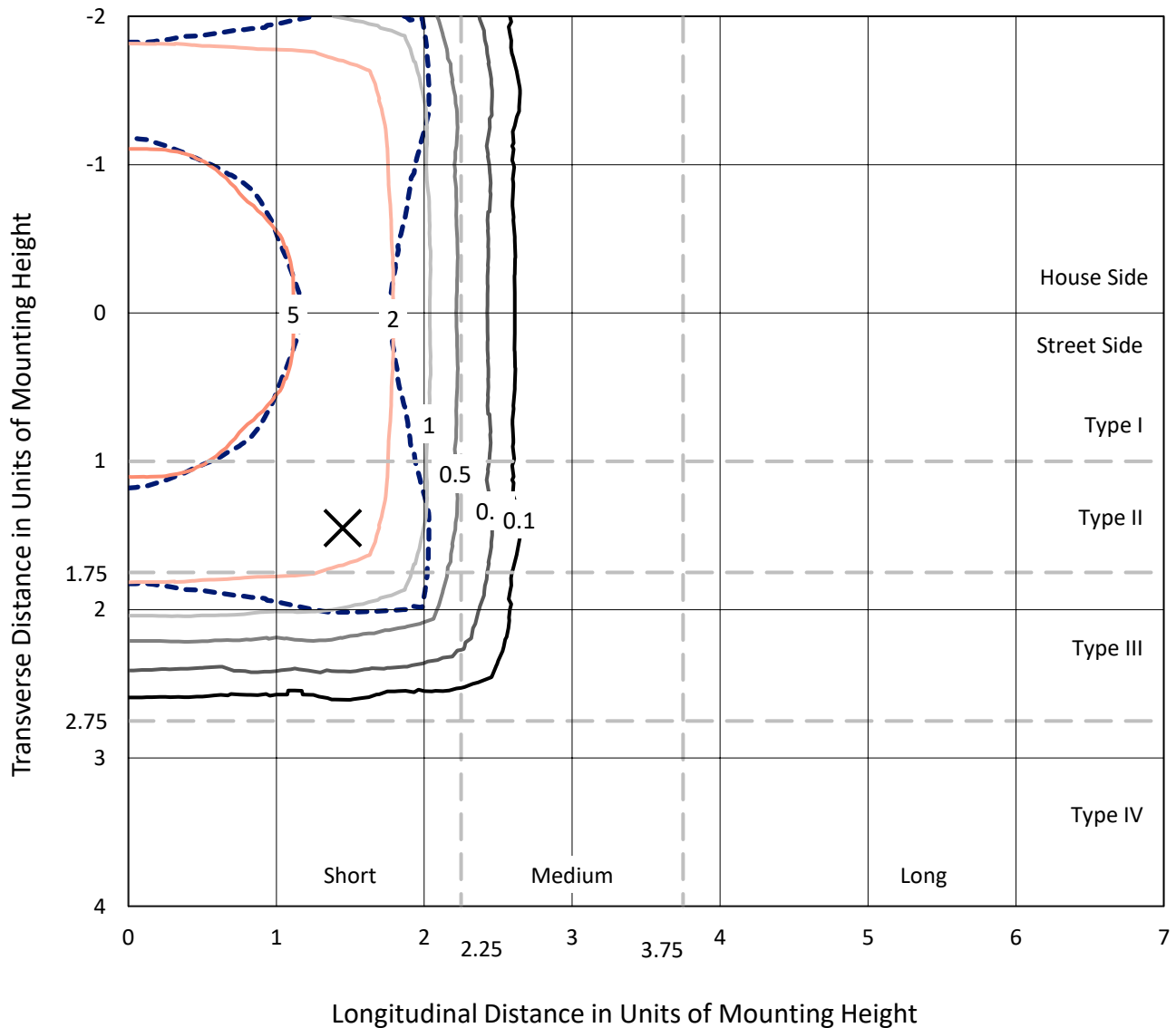


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

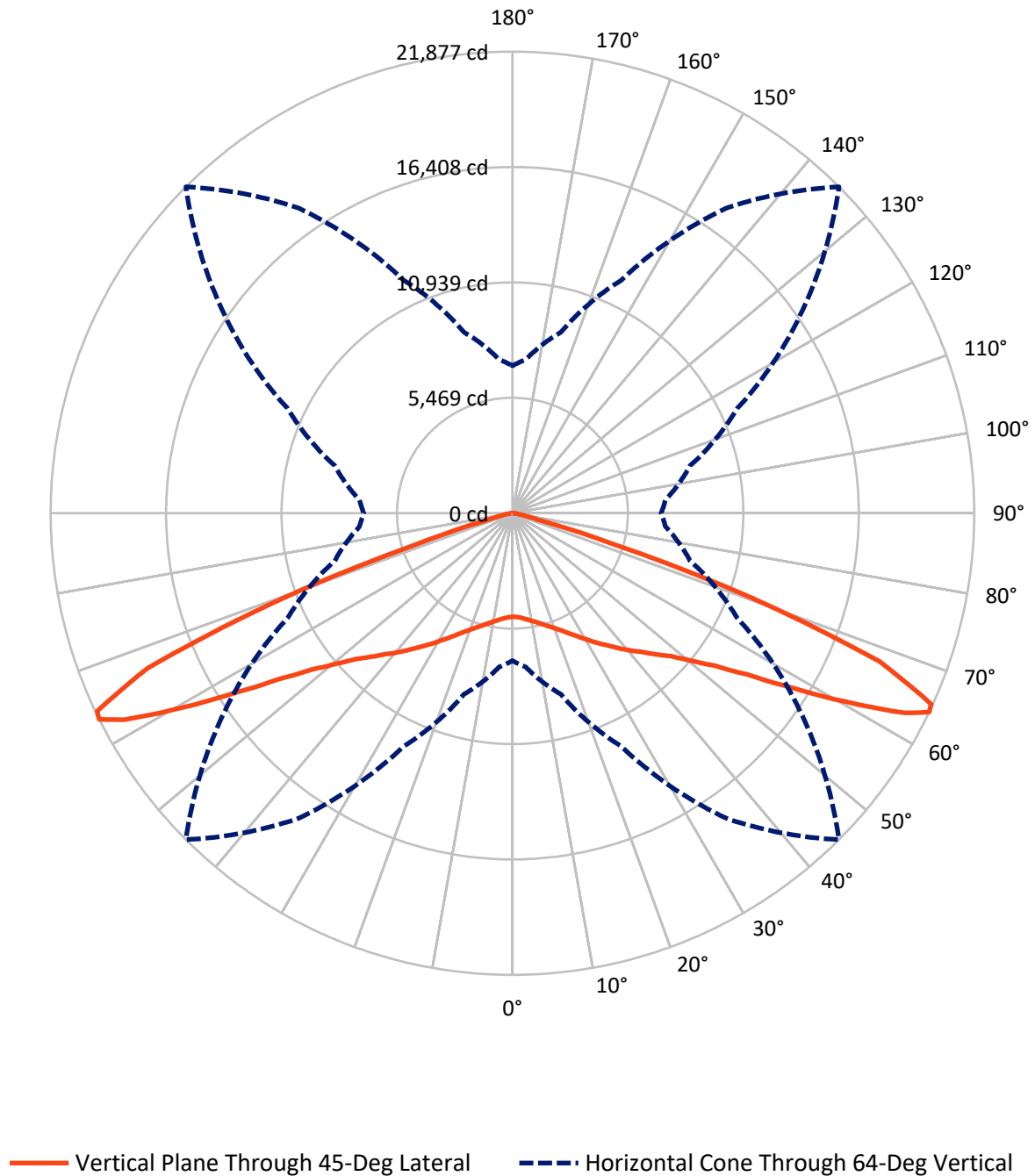


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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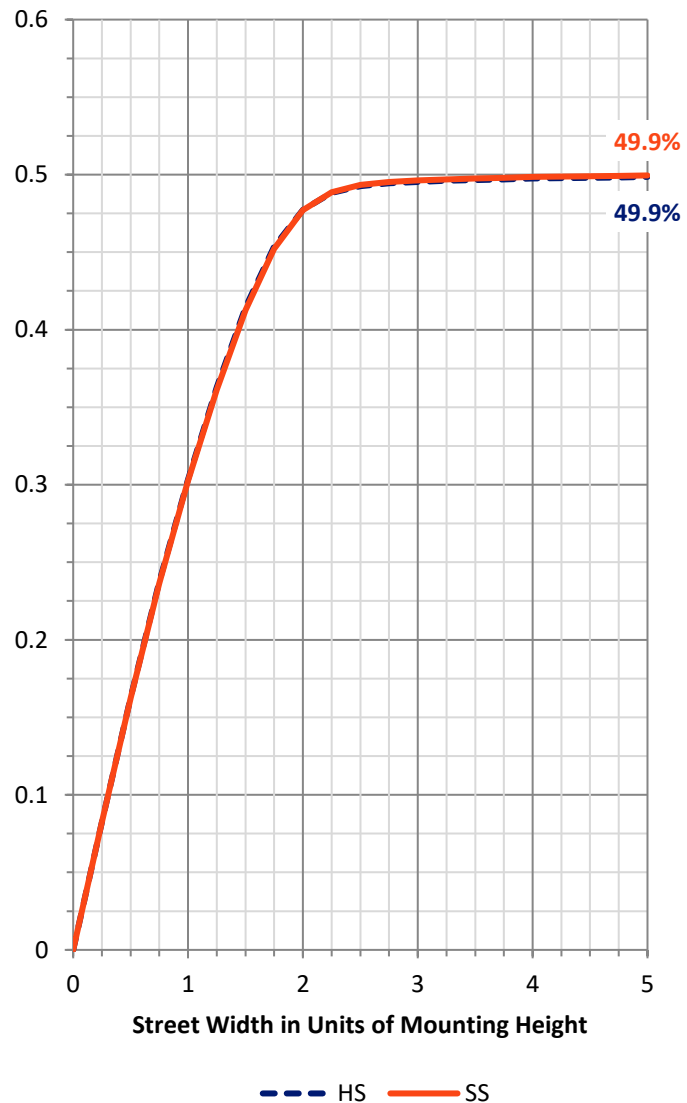
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20305.0	0.0	20305.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20305.0	0.0	20305.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40610.0	0.0	40610.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.2	1.2
10°-20°	1555.5	3.8
20°-30°	2939.4	7.2
30°-40°	4867.9	12.0
40°-50°	7599.6	18.7
50°-60°	11748.9	28.9
60°-70°	10130.9	24.9
70°-80°	1148.1	2.8
80°-90°	137.6	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°	40610.0	100.0
0°-180°	40610.0	100.0

Coefficient of Utilization



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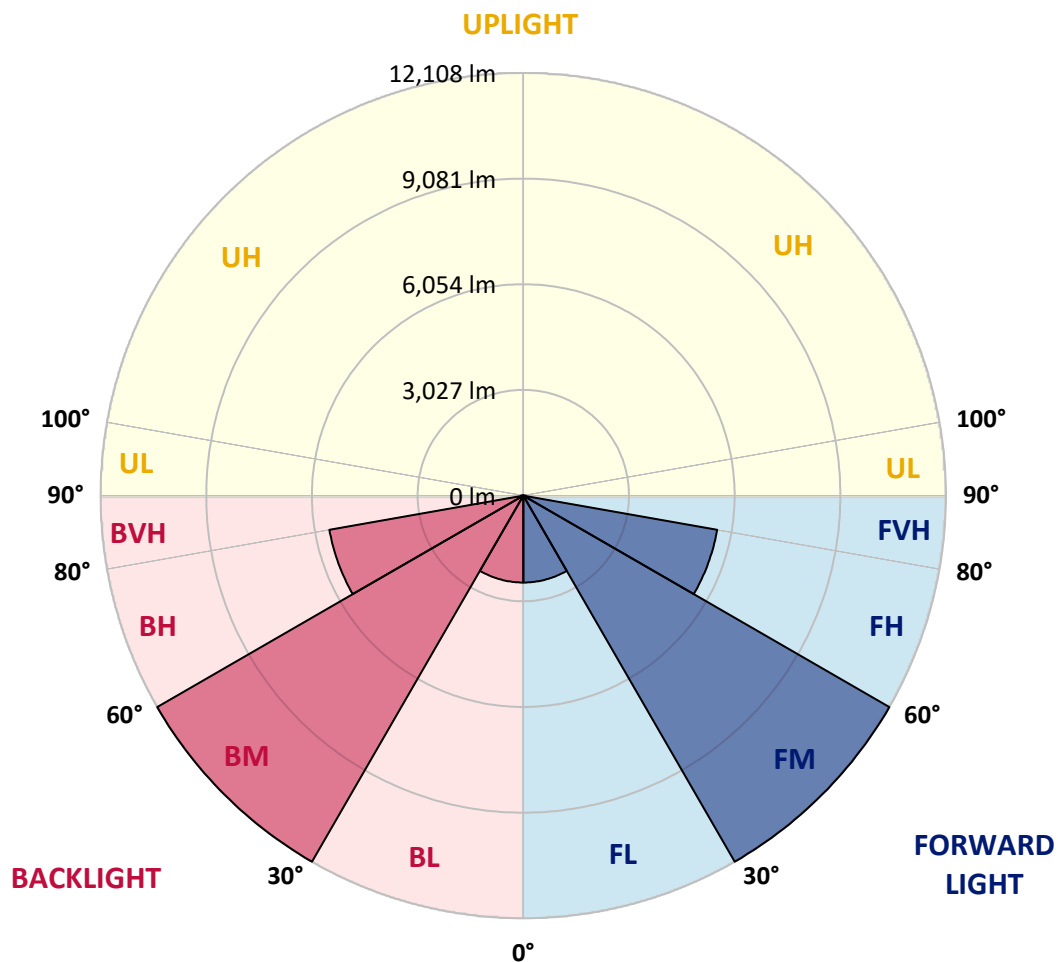
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2488.5	6.1			
FM	(30°-60°)	12108.2	29.8			
FH	(60°-80°)	5639.5	13.9			G3/7500
FVH	(80°-90°)	68.8	0.2			G1/100
BL	(0°-30°)	2488.5	6.1	B3/2500		
BM	(30°-60°)	12108.2	29.8	B5		
BH	(60°-80°)	5639.5	13.9	B5		G3/7500
BVH	(80°-90°)	68.8	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°	4908.4	4908.4	4908.4	4908.4	4908.4	4908.4	4908.4	4908.4	4908.4	4908.4	4908.4
2.5°	4927.8	4938.5	4929.9	4927.8	4925.6	4925.6	4925.6	4927.8	4936.4	4942.8	4938.5
5°	4990.1	4998.7	4994.4	4992.3	4990.1	4992.3	4988.0	4985.8	4992.3	4992.3	4990.1
7.5°	5067.6	5078.3	5074.0	5078.3	5080.5	5082.6	5071.9	5063.3	5061.1	5067.6	5063.3
10°	5173.0	5181.6	5183.7	5185.9	5190.2	5188.0	5175.1	5160.1	5157.9	5155.8	5153.6
12.5°	5291.3	5297.7	5299.9	5308.5	5314.9	5317.1	5302.0	5289.1	5267.6	5271.9	5263.3
15°	5424.6	5437.5	5435.4	5448.3	5465.5	5469.8	5454.7	5433.2	5413.9	5403.1	5396.7
17.5°	5588.1	5596.7	5592.4	5605.3	5626.8	5637.6	5624.7	5596.7	5577.3	5553.7	5540.8
20°	5781.7	5796.7	5801.0	5801.0	5820.4	5831.1	5811.8	5803.2	5773.1	5755.9	5745.1
22.5°	6001.1	6007.5	6020.4	6033.3	6052.7	6048.4	6041.9	6029.0	6001.1	5986.0	5968.8
25°	6248.4	6254.9	6287.1	6315.1	6321.6	6317.3	6308.7	6302.2	6276.4	6242.0	6229.1
27.5°	6536.6	6549.6	6592.6	6618.4	6618.4	6620.5	6603.3	6624.8	6568.9	6528.0	6523.7
30°	6898.0	6906.6	6943.2	6969.0	6956.1	6945.3	6941.0	6962.5	6902.3	6829.2	6812.0
32.5°	7255.1	7285.2	7317.4	7373.4	7328.2	7308.8	7304.5	7319.6	7250.8	7169.0	7145.4
35°	7637.9	7659.4	7719.7	7767.0	7726.1	7680.9	7700.3	7747.6	7665.9	7556.2	7551.9
37.5°	8061.7	8081.0	8158.4	8207.9	8177.8	8100.4	8132.6	8188.6	8106.8	7971.3	7943.4
40°	8502.6	8543.5	8640.2	8691.9	8642.4	8539.2	8599.4	8659.6	8586.5	8429.5	8367.1
42.5°	8997.3	9061.8	9201.6	9227.5	9132.8	8993.0	9098.4	9195.2	9143.6	8962.9	8939.2
45°	9575.9	9614.6	9786.7	9842.6	9711.4	9537.2	9668.4	9844.8	9806.0	9597.4	9552.2
47.5°	10223.3	10259.9	10438.4	10522.3	10356.7	10122.2	10358.8	10589.0	10565.3	10341.6	10320.1
50°	10989.1	10997.7	11245.0	11339.7	11174.0	10971.8	11182.6	11468.7	11374.1	11088.0	11083.7
52.5°	11827.9	11838.7	12150.6	12333.4	12240.9	12012.9	12262.4	12436.6	12195.7	11821.5	11793.5
55°	12554.9	12608.7	13034.6	13520.7	13647.6	13482.0	13557.3	13475.5	12881.9	12357.0	12275.3
57.5°	12851.8	12957.1	13604.6	14512.3	15338.2	15583.4	15002.7	14224.0	13155.0	12413.0	12333.4
60°	12126.9	12240.9	13245.4	14968.3	17076.2	18140.9	16508.3	14350.9	12533.4	11490.2	11365.5
62.5°	9711.4	9743.7	11221.4	13894.9	18089.2	20846.7	17142.8	13269.0	10724.5	9307.0	9257.6
64°	6988.3	7319.6	8885.5	12182.8	17646.2	21877.0	16777.2	11752.6	8711.2	7276.6	7044.3
65°	5226.7	5317.1	7162.6	10404.0	16865.4	21799.6	16067.4	10302.9	7214.2	5568.7	5310.6
67.5°	1974.5	1985.3	2643.5	5185.9	12006.4	18756.0	12262.4	5605.3	3039.3	2198.2	2118.7
70°	819.5	834.6	970.1	1744.4	5160.1	12043.0	5912.9	2021.9	1112.0	901.2	888.3
72.5°	600.1	608.7	649.6	774.3	1587.4	4945.0	1944.4	858.2	651.7	582.9	576.4
75°	471.1	475.4	505.5	570.0	739.9	1370.1	808.7	589.4	496.9	447.4	443.1
77.5°	359.2	370.0	391.5	434.5	496.9	649.6	535.6	440.9	382.9	342.0	335.5
80°	247.4	260.3	301.1	318.3	333.4	421.6	365.7	333.4	299.0	249.5	234.5
82.5°	152.7	161.3	202.2	217.2	210.8	236.6	234.5	238.8	212.9	154.9	144.1
85°	79.6	83.9	109.7	114.0	105.4	96.8	120.5	139.8	131.2	88.2	86.0
87.5°	17.2	19.4	23.7	21.5	23.7	23.7	30.1	45.2	47.3	30.1	28.0
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)