

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: P453613

Luminaire Tested: **GALN-SA4C-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453613
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-SA4C-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 23064 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 213
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

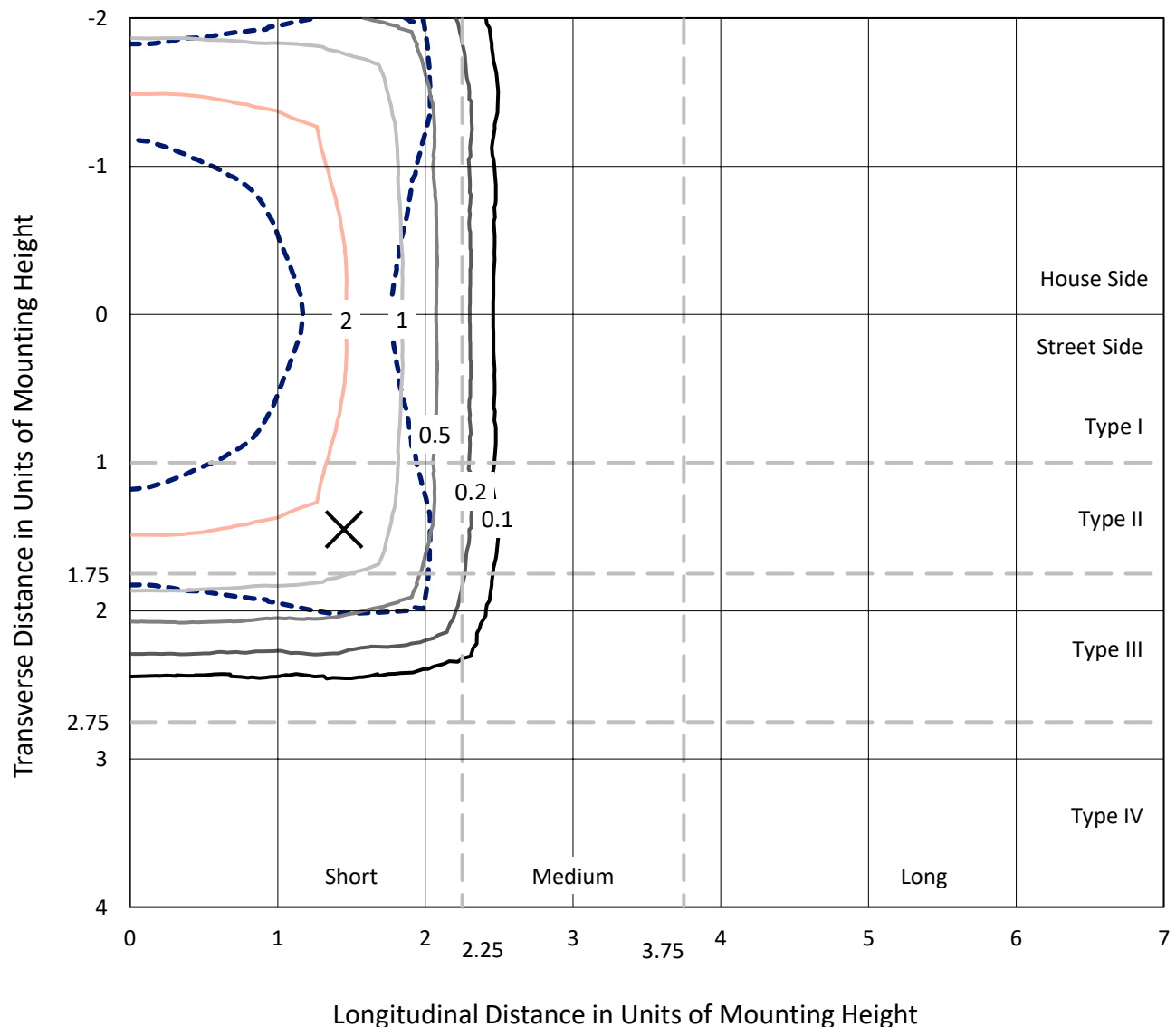


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

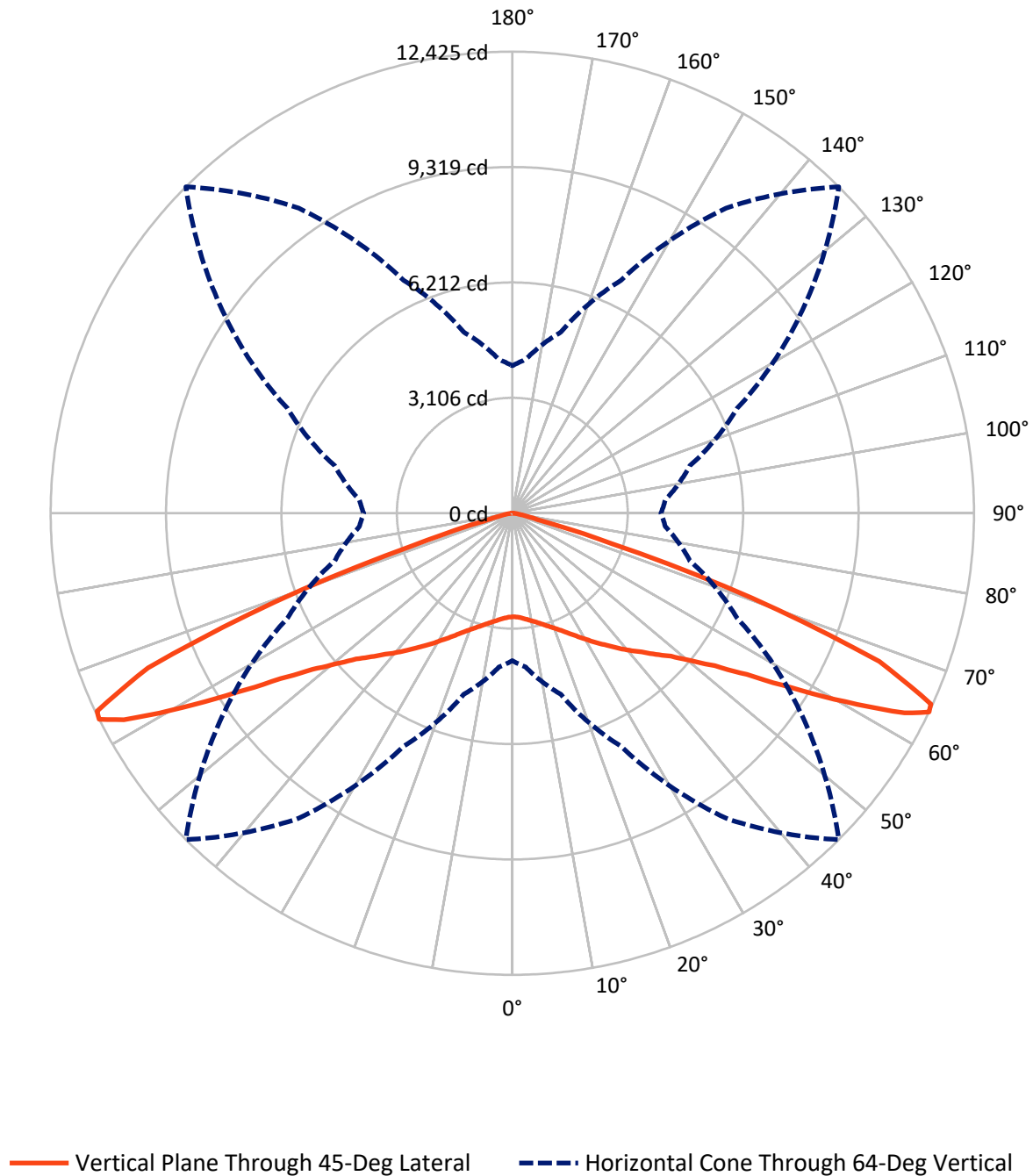


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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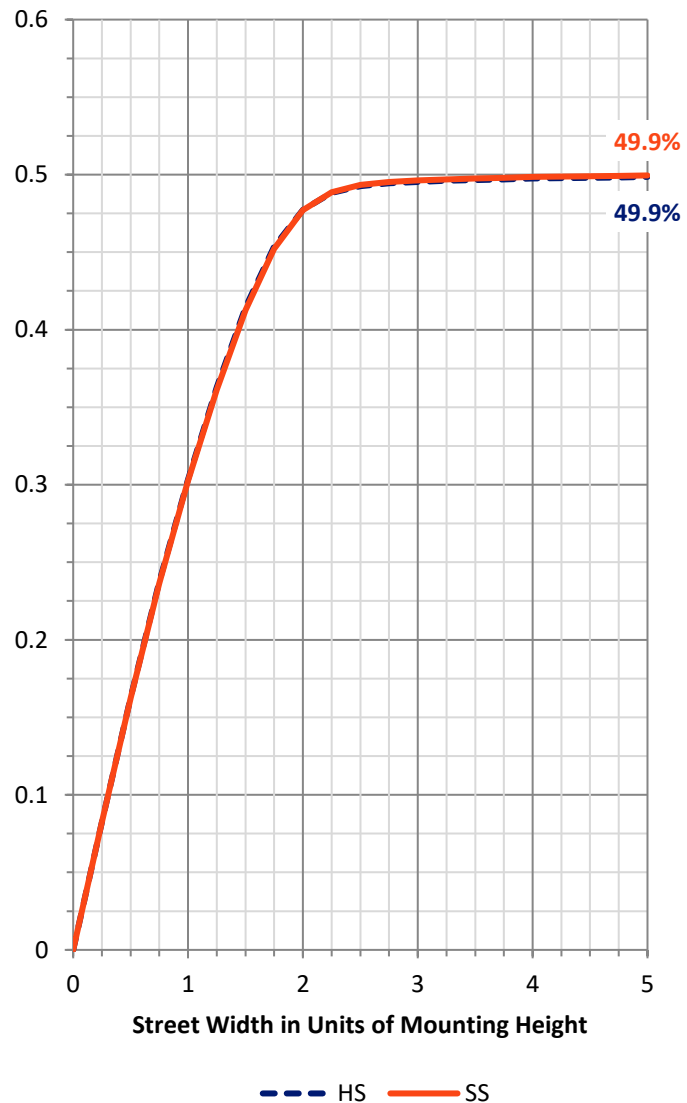
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11532.0	0.0	11532.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11532.0	0.0	11532.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23064.0	0.0	23064.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.9	1.2
10°-20°	883.4	3.8
20°-30°	1669.4	7.2
30°-40°	2764.7	12.0
40°-50°	4316.1	18.7
50°-60°	6672.6	28.9
60°-70°	5753.7	24.9
70°-80°	652.0	2.8
80°-90°	78.1	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°	23064.0	100.0
0°-180°	23064.0	100.0

Coefficient of Utilization



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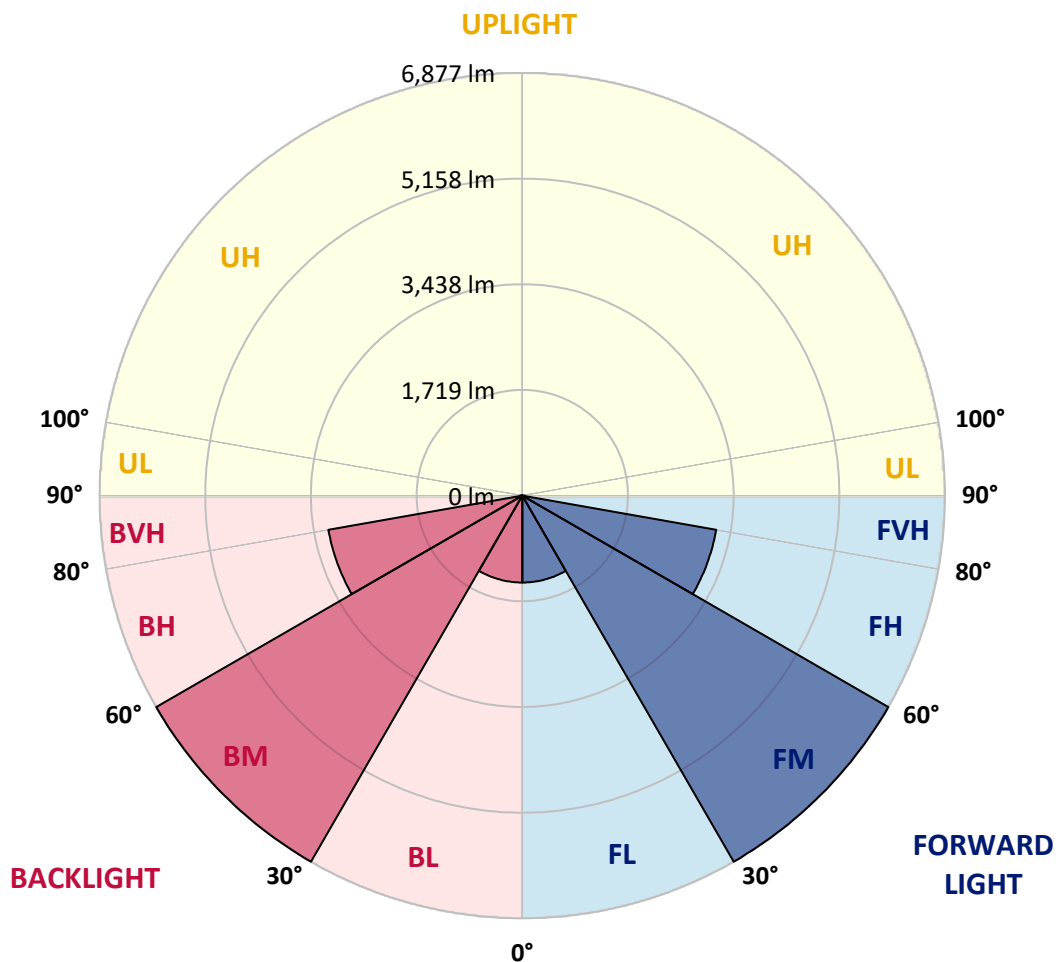
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1413.3	6.1			
FM	(30°-60°)	6876.7	29.8			
FH	(60°-80°)	3202.9	13.9			G2/5000
FVH	(80°-90°)	39.1	0.2			G1/100
BL	(0°-30°)	1413.3	6.1	B3/2500		
BM	(30°-60°)	6876.7	29.8	B4/8500		
BH	(60°-80°)	3202.9	13.9	B4/5000		G2/5000
BVH	(80°-90°)	39.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2787.7	2787.7	2787.7	2787.7	2787.7	2787.7	2787.7	2787.7	2787.7	2787.7	2787.7
2.5°	2798.7	2804.8	2799.9	2798.7	2797.4	2797.4	2797.4	2798.7	2803.6	2807.2	2804.8
5°	2834.1	2839.0	2836.5	2835.3	2834.1	2835.3	2832.9	2831.6	2835.3	2835.3	2834.1
7.5°	2878.1	2884.2	2881.7	2884.2	2885.4	2886.6	2880.5	2875.6	2874.4	2878.1	2875.6
10°	2937.9	2942.8	2944.0	2945.3	2947.7	2946.5	2939.1	2930.6	2929.4	2928.2	2926.9
12.5°	3005.1	3008.8	3010.0	3014.9	3018.6	3019.8	3011.2	3003.9	2991.7	2994.1	2989.2
15°	3080.9	3088.2	3087.0	3094.3	3104.1	3106.5	3098.0	3085.7	3074.7	3068.6	3065.0
17.5°	3173.7	3178.6	3176.1	3183.5	3195.7	3201.8	3194.5	3178.6	3167.6	3154.1	3146.8
20°	3283.6	3292.2	3294.6	3294.6	3305.6	3311.7	3300.7	3295.9	3278.8	3269.0	3262.9
22.5°	3408.2	3411.9	3419.2	3426.6	3437.6	3435.1	3431.5	3424.1	3408.2	3399.7	3389.9
25°	3548.7	3552.4	3570.7	3586.6	3590.3	3587.8	3582.9	3579.3	3564.6	3545.1	3537.7
27.5°	3712.4	3719.7	3744.2	3758.8	3758.8	3760.1	3750.3	3762.5	3730.7	3707.5	3705.1
30°	3917.6	3922.5	3943.3	3958.0	3950.6	3944.5	3942.1	3954.3	3920.1	3878.6	3868.8
32.5°	4120.4	4137.5	4155.9	4187.6	4162.0	4151.0	4148.5	4157.1	4118.0	4071.6	4058.1
35°	4337.9	4350.1	4384.3	4411.2	4388.0	4362.3	4373.3	4400.2	4353.8	4291.5	4289.0
37.5°	4578.5	4589.5	4633.5	4661.6	4644.5	4600.5	4618.8	4650.6	4604.2	4527.2	4511.3
40°	4829.0	4852.2	4907.1	4936.5	4908.4	4849.7	4883.9	4918.1	4876.6	4787.4	4752.0
42.5°	5109.9	5146.6	5226.0	5240.6	5186.9	5107.5	5167.3	5222.3	5193.0	5090.4	5076.9
45°	5438.5	5460.5	5558.2	5590.0	5515.5	5416.5	5491.1	5591.2	5569.2	5450.7	5425.1
47.5°	5806.2	5827.0	5928.4	5976.0	5882.0	5748.8	5883.2	6013.9	6000.5	5873.4	5861.2
50°	6241.1	6246.0	6386.5	6440.2	6346.2	6231.3	6351.1	6513.5	6459.8	6297.3	6294.9
52.5°	6717.5	6723.6	6900.8	7004.6	6952.1	6822.6	6964.3	7063.2	6926.4	6713.9	6698.0
55°	7130.4	7161.0	7402.8	7678.9	7751.0	7656.9	7699.7	7653.3	7316.1	7018.0	6971.6
57.5°	7299.0	7358.9	7726.6	8242.1	8711.2	8850.4	8520.6	8078.4	7471.3	7049.8	7004.6
60°	6887.3	6952.1	7522.6	8501.1	9698.2	10302.9	9375.7	8150.5	7118.2	6525.7	6454.9
62.5°	5515.5	5533.8	6373.0	7891.5	10273.6	11839.7	9736.1	7536.0	6090.9	5285.8	5257.7
64°	3969.0	4157.1	5046.4	6919.1	10021.9	12424.8	9528.4	6674.8	4947.4	4132.6	4000.7
65°	2968.5	3019.8	4067.9	5908.8	9578.5	12380.8	9125.3	5851.4	4097.2	3162.7	3016.1
67.5°	1121.4	1127.5	1501.3	2945.3	6818.9	10652.3	6964.3	3183.5	1726.1	1248.5	1203.3
70°	465.4	474.0	550.9	990.7	2930.6	6839.7	3358.2	1148.3	631.6	511.8	504.5
72.5°	340.8	345.7	368.9	439.8	901.5	2808.4	1104.3	487.4	370.1	331.1	327.4
75°	267.5	270.0	287.1	323.7	420.2	778.2	459.3	334.7	282.2	254.1	251.6
77.5°	204.0	210.1	222.3	246.8	282.2	368.9	304.2	250.4	217.4	194.2	190.6
80°	140.5	147.8	171.0	180.8	189.3	239.4	207.7	189.3	169.8	141.7	133.2
82.5°	86.7	91.6	114.8	123.4	119.7	134.4	133.2	135.6	120.9	88.0	81.8
85°	45.2	47.6	62.3	64.7	59.9	55.0	68.4	79.4	74.5	50.1	48.9
87.5°	9.8	11.0	13.4	12.2	13.4	13.4	17.1	25.7	26.9	17.1	15.9
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)