

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: P455005

Luminaire Tested: **GALN-SA6A-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455005
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-SA6A-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22489 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 182
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

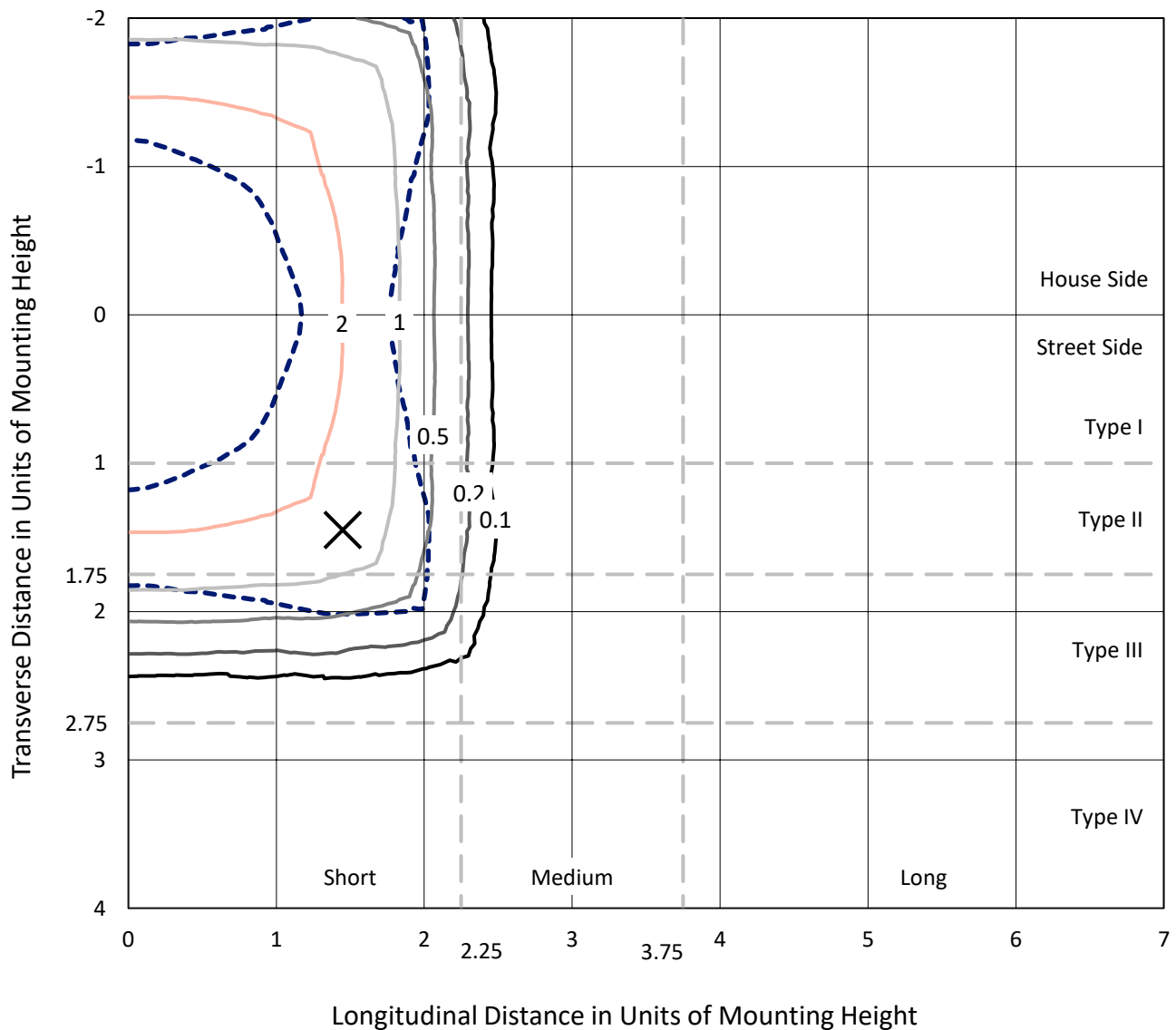


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

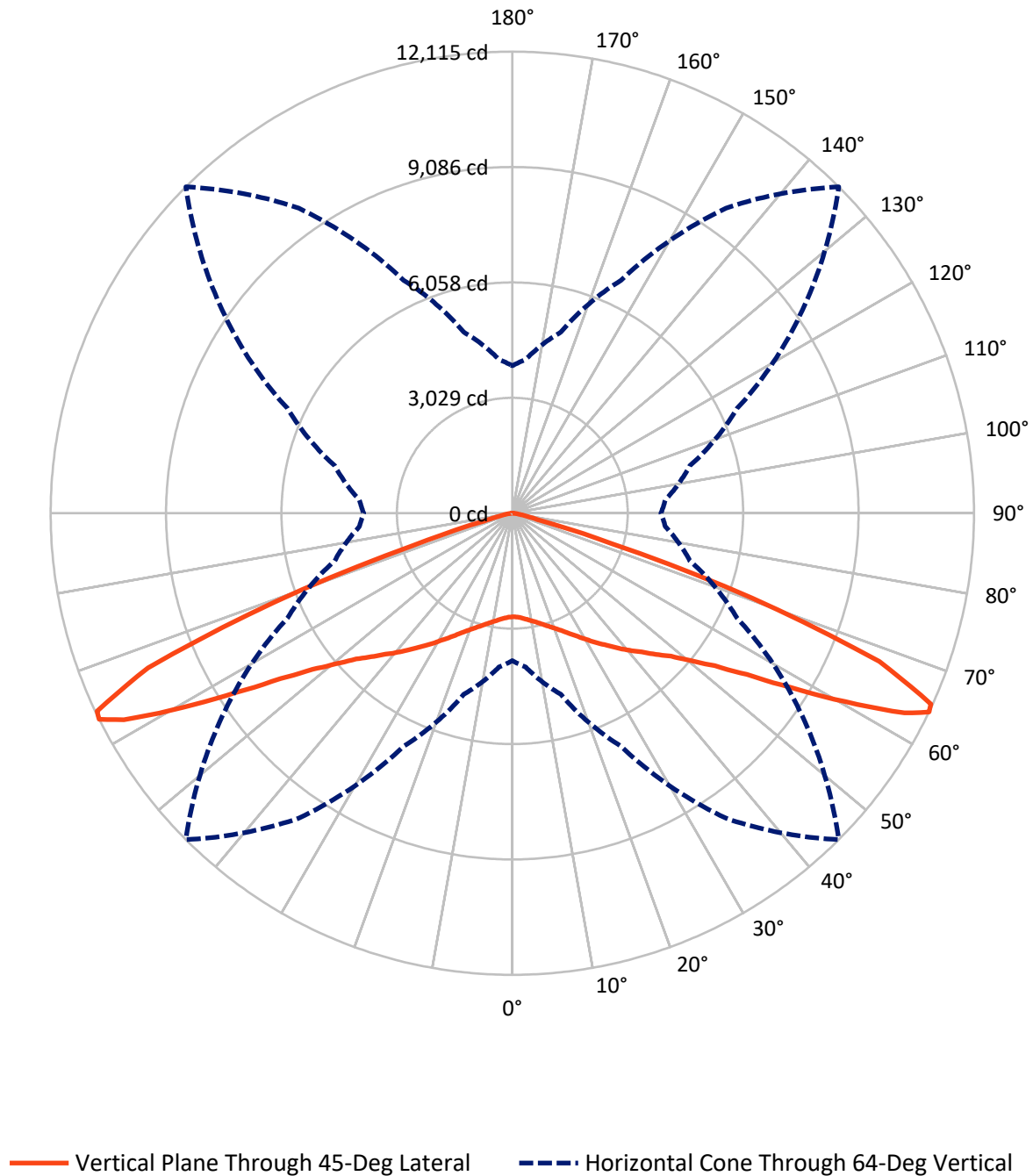


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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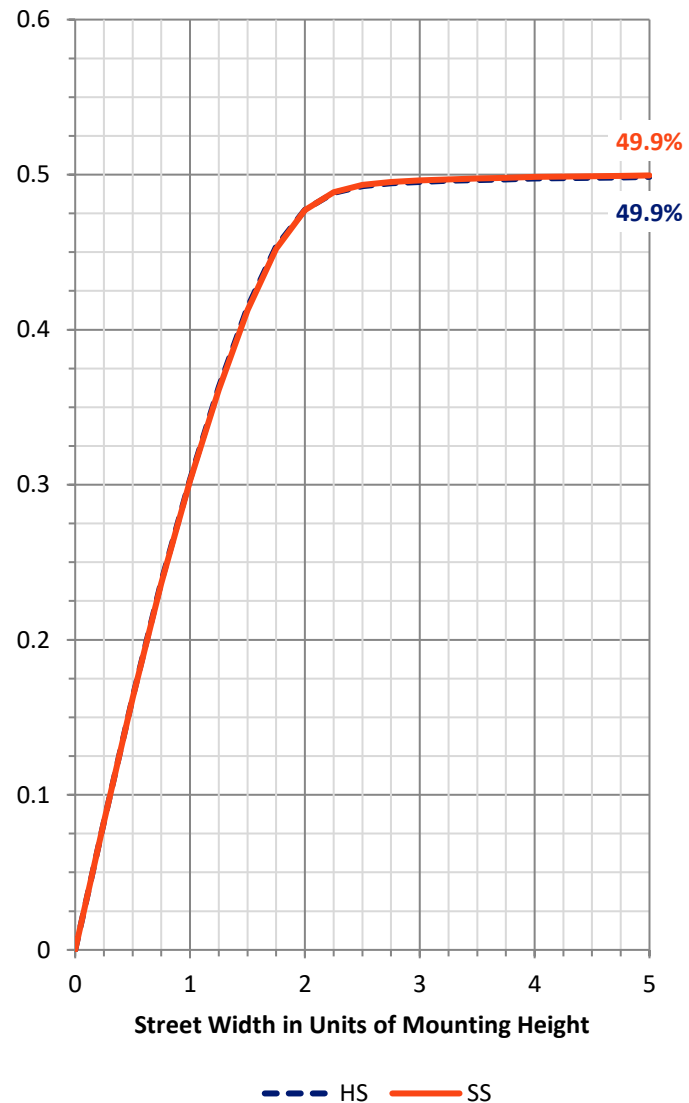
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11244.5	0.0	11244.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11244.5	0.0	11244.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22489.0	0.0	22489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.0	1.2
10°-20°	861.4	3.8
20°-30°	1627.8	7.2
30°-40°	2695.8	12.0
40°-50°	4208.5	18.7
50°-60°	6506.3	28.9
60°-70°	5610.3	24.9
70°-80°	635.8	2.8
80°-90°	76.2	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°	22489.0	100.0
0°-180°	22489.0	100.0

Coefficient of Utilization



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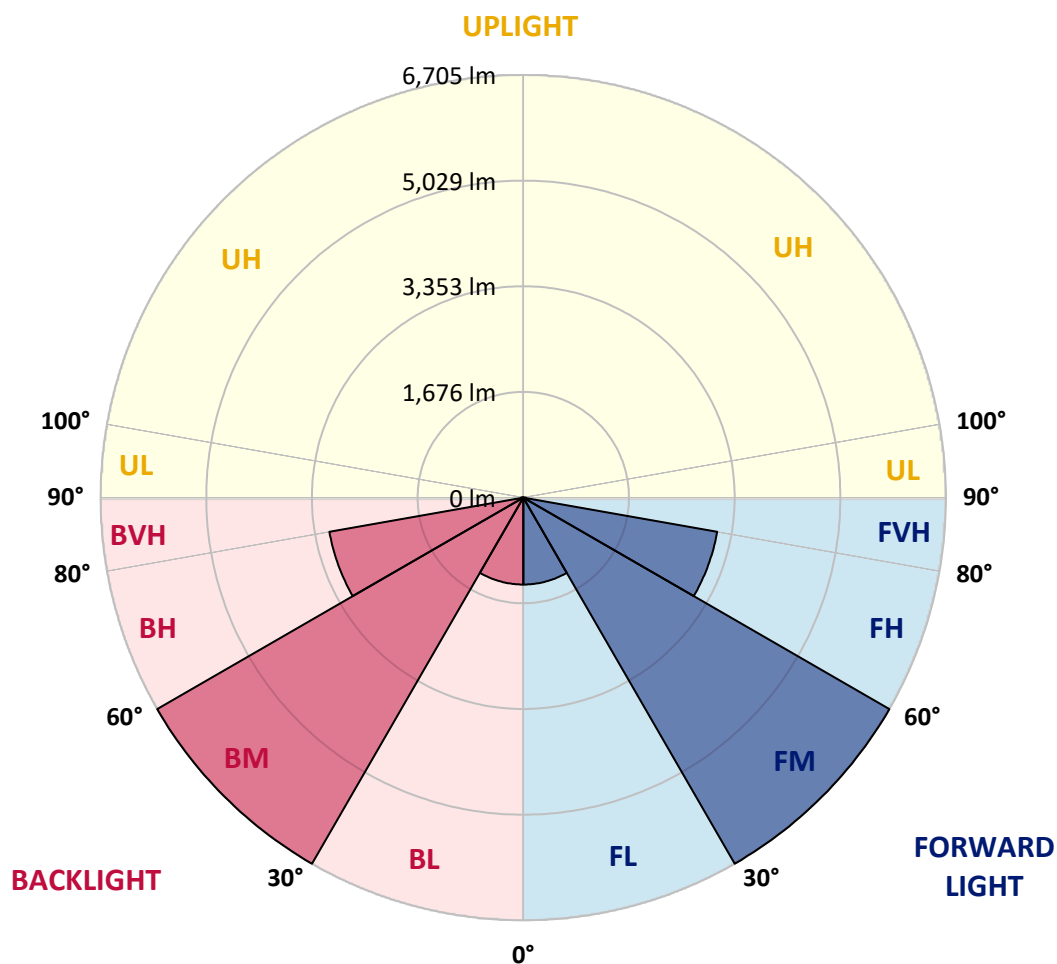
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1378.1	6.1			
FM	(30°-60°)	6705.3	29.8			
FH	(60°-80°)	3123.0	13.9			G2/5000
FVH	(80°-90°)	38.1	0.2			G1/100
BL	(0°-30°)	1378.1	6.1	B3/2500		
BM	(30°-60°)	6705.3	29.8	B4/8500		
BH	(60°-80°)	3123.0	13.9	B4/5000		G2/5000
BVH	(80°-90°)	38.1	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°	2718.2	2718.2	2718.2	2718.2	2718.2	2718.2	2718.2	2718.2	2718.2	2718.2	2718.2
2.5°	2728.9	2734.8	2730.1	2728.9	2727.7	2727.7	2727.7	2728.9	2733.7	2737.2	2734.8
5°	2763.4	2768.2	2765.8	2764.6	2763.4	2764.6	2762.2	2761.1	2764.6	2764.6	2763.4
7.5°	2806.3	2812.3	2809.9	2812.3	2813.5	2814.7	2808.7	2803.9	2802.7	2806.3	2803.9
10°	2864.7	2869.4	2870.6	2871.8	2874.2	2873.0	2865.9	2857.5	2856.3	2855.2	2854.0
12.5°	2930.2	2933.8	2935.0	2939.7	2943.3	2944.5	2936.2	2929.0	2917.1	2919.5	2914.7
15°	3004.0	3011.2	3010.0	3017.1	3026.7	3029.1	3020.7	3008.8	2998.1	2992.1	2988.6
17.5°	3094.6	3099.3	3097.0	3104.1	3116.0	3122.0	3114.8	3099.3	3088.6	3075.5	3068.4
20°	3201.8	3210.1	3212.5	3212.5	3223.2	3229.2	3218.5	3213.7	3197.0	3187.5	3181.5
22.5°	3323.3	3326.8	3334.0	3341.1	3351.9	3349.5	3345.9	3338.8	3323.3	3314.9	3305.4
25°	3460.3	3463.8	3481.7	3497.2	3500.8	3498.4	3493.6	3490.0	3475.7	3456.7	3449.5
27.5°	3619.9	3627.0	3650.8	3665.1	3665.1	3666.3	3656.8	3668.7	3637.7	3615.1	3612.7
30°	3820.0	3824.7	3845.0	3859.3	3852.1	3846.2	3843.8	3855.7	3822.4	3781.9	3772.3
32.5°	4017.7	4034.4	4052.2	4083.2	4058.2	4047.5	4045.1	4053.4	4015.3	3970.1	3957.0
35°	4229.7	4241.6	4275.0	4301.2	4278.6	4253.5	4264.3	4290.5	4245.2	4184.5	4182.1
37.5°	4464.4	4475.1	4518.0	4545.4	4528.7	4485.8	4503.7	4534.7	4489.4	4414.4	4398.9
40°	4708.6	4731.2	4784.8	4813.4	4786.0	4728.8	4762.2	4795.5	4755.0	4668.1	4633.5
42.5°	4982.5	5018.3	5095.7	5110.0	5057.6	4980.1	5038.5	5092.1	5063.5	4963.5	4950.4
45°	5302.9	5324.4	5419.7	5450.6	5378.0	5281.5	5354.2	5451.8	5430.4	5314.9	5289.8
47.5°	5661.5	5681.7	5780.6	5827.0	5735.3	5605.5	5736.5	5864.0	5850.9	5727.0	5715.1
50°	6085.5	6090.3	6227.3	6279.7	6188.0	6076.0	6192.7	6351.1	6298.7	6140.3	6137.9
52.5°	6550.1	6556.0	6728.7	6830.0	6778.8	6652.5	6790.7	6887.2	6753.7	6546.5	6531.0
55°	6952.7	6982.4	7218.3	7487.5	7557.8	7466.0	7507.7	7462.5	7133.7	6843.1	6797.8
57.5°	7117.0	7175.4	7533.9	8036.6	8494.0	8629.8	8308.2	7877.0	7285.0	6874.0	6830.0
60°	6715.6	6778.8	7335.0	8289.1	9456.4	10046.0	9142.0	7947.3	6940.8	6363.1	6294.0
62.5°	5378.0	5395.8	6214.2	7694.7	10017.5	11544.5	9493.4	7348.1	5939.0	5154.0	5126.7
64°	3870.0	4053.4	4920.6	6746.6	9772.1	12115.1	9290.9	6508.4	4824.1	4029.6	3901.0
65°	2894.5	2944.5	3966.5	5761.5	9339.7	12072.2	8897.8	5705.5	3995.1	3083.9	2940.9
67.5°	1093.5	1099.4	1463.9	2871.8	6648.9	10386.7	6790.7	3104.1	1683.1	1217.3	1173.3
70°	453.8	462.2	537.2	966.0	2857.5	6669.2	3274.4	1119.7	615.8	499.1	491.9
72.5°	332.3	337.1	359.7	428.8	879.1	2738.4	1076.8	475.3	360.9	322.8	319.2
75°	260.9	263.2	279.9	315.7	409.8	758.8	447.9	326.4	275.2	247.8	245.4
77.5°	198.9	204.9	216.8	240.6	275.2	359.7	296.6	244.2	212.0	189.4	185.8
80°	137.0	144.1	166.8	176.3	184.6	233.5	202.5	184.6	165.6	138.2	129.8
82.5°	84.6	89.3	112.0	120.3	116.7	131.0	129.8	132.2	117.9	85.8	79.8
85°	44.1	46.5	60.7	63.1	58.4	53.6	66.7	77.4	72.7	48.8	47.6
87.5°	9.5	10.7	13.1	11.9	13.1	13.1	16.7	25.0	26.2	16.7	15.5
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)