

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: STREETWORKS

Report Number: P316618

Luminaire Tested: **GAN-SA4D-827-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24171 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

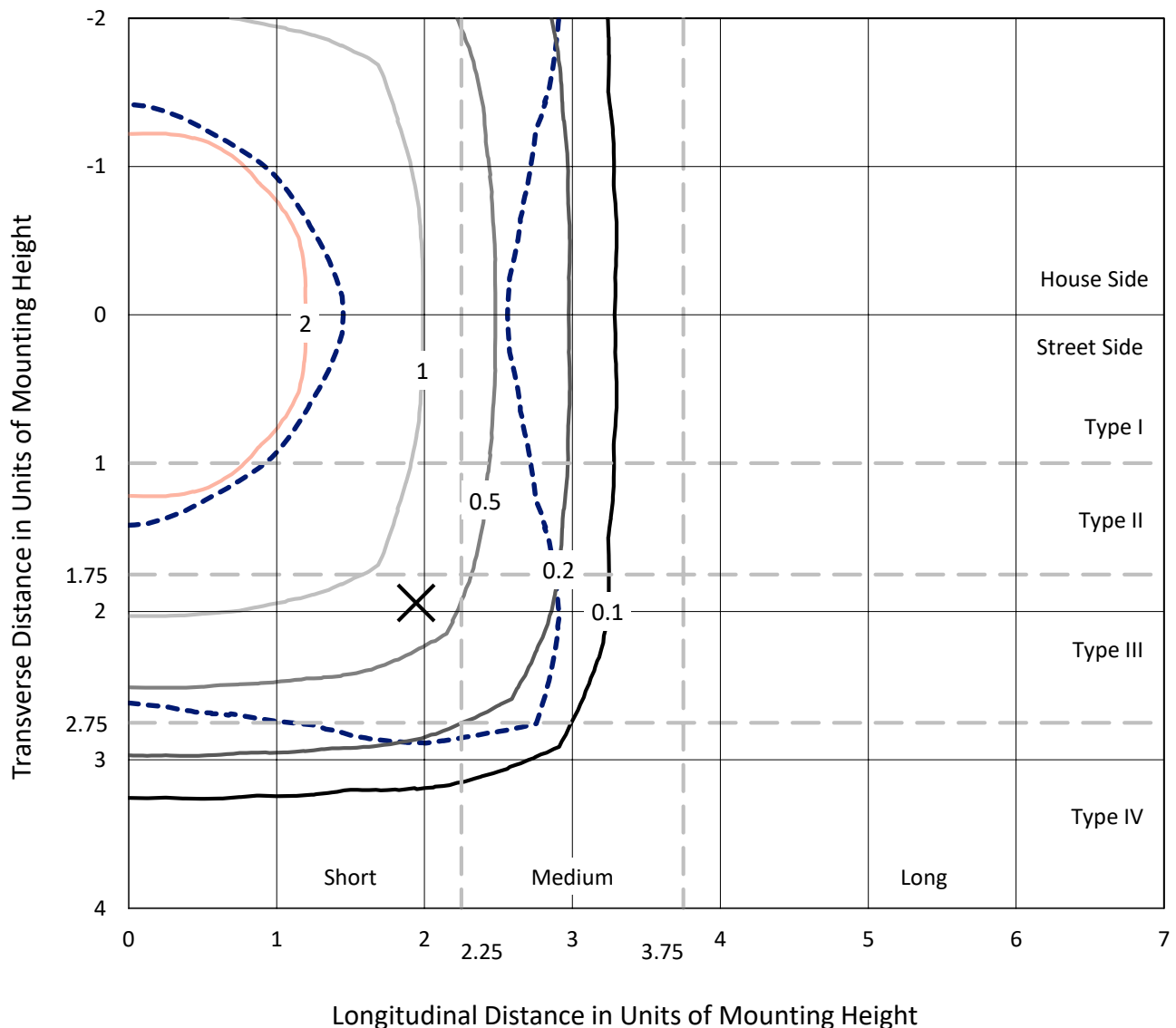
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

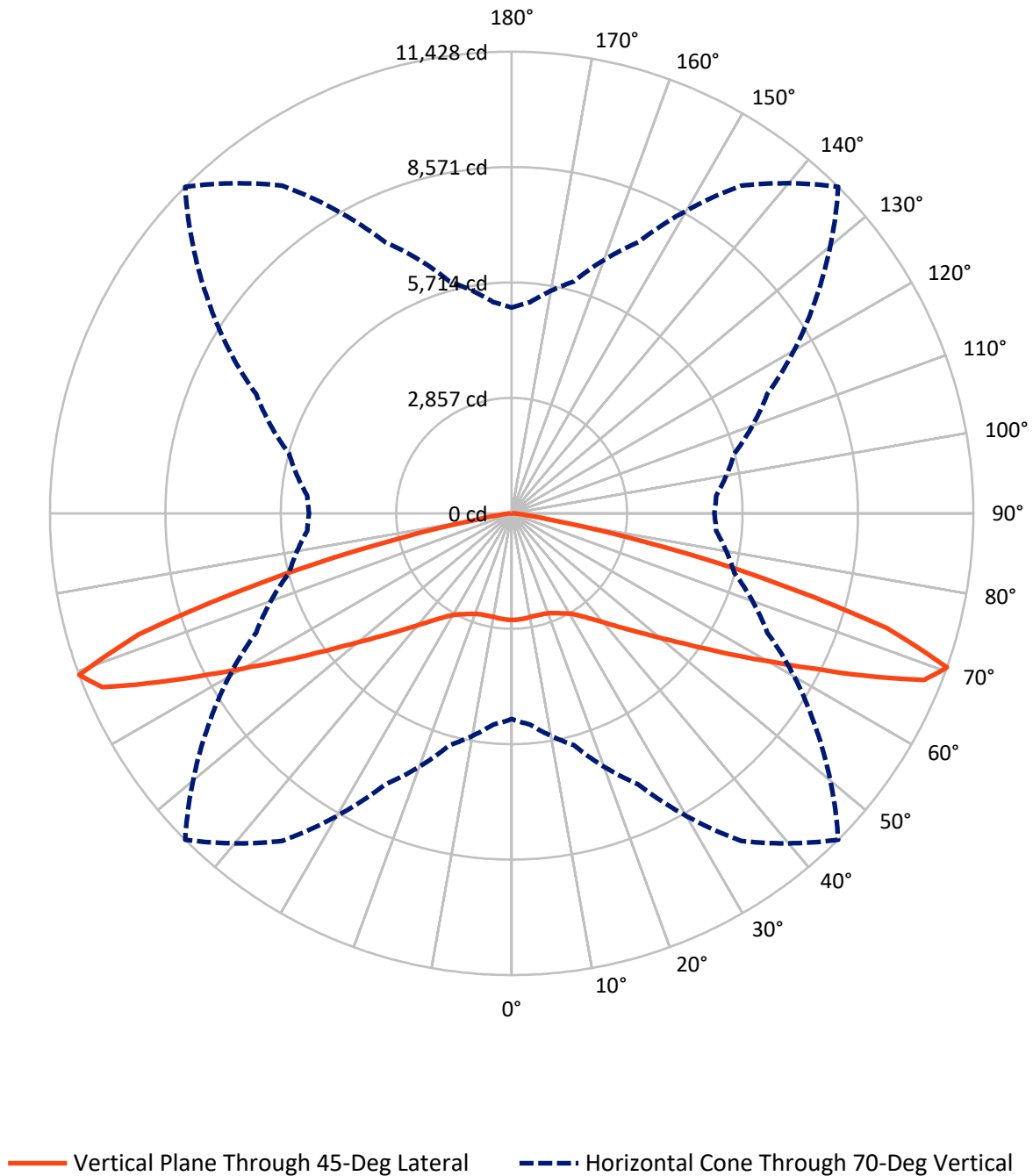
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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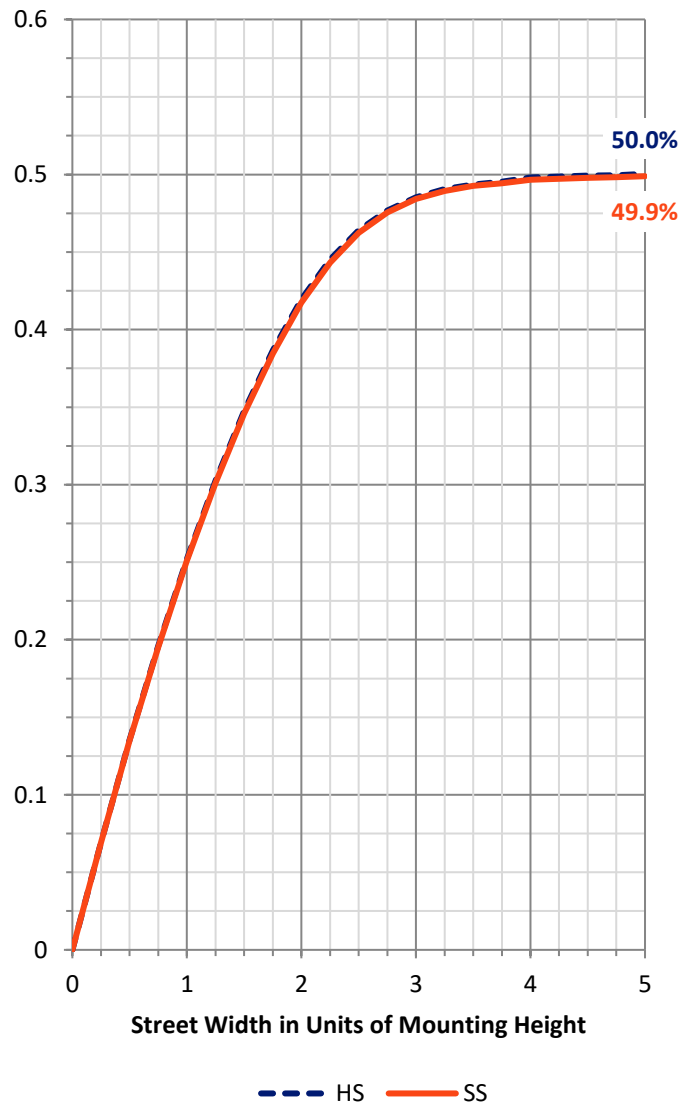
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12085.5	0.0	12085.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12085.5	0.0	12085.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24171.0	0.0	24171.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.0	1.0
10°-20°	734.0	3.0
20°-30°	1249.5	5.2
30°-40°	1981.7	8.2
40°-50°	3224.8	13.3
50°-60°	5317.2	22.0
60°-70°	7805.8	32.3
70°-80°	3451.7	14.3
80°-90°	156.3	0.6
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°	24171.0	100.0
0°-180°	24171.0	100.0

Coefficient of Utilization



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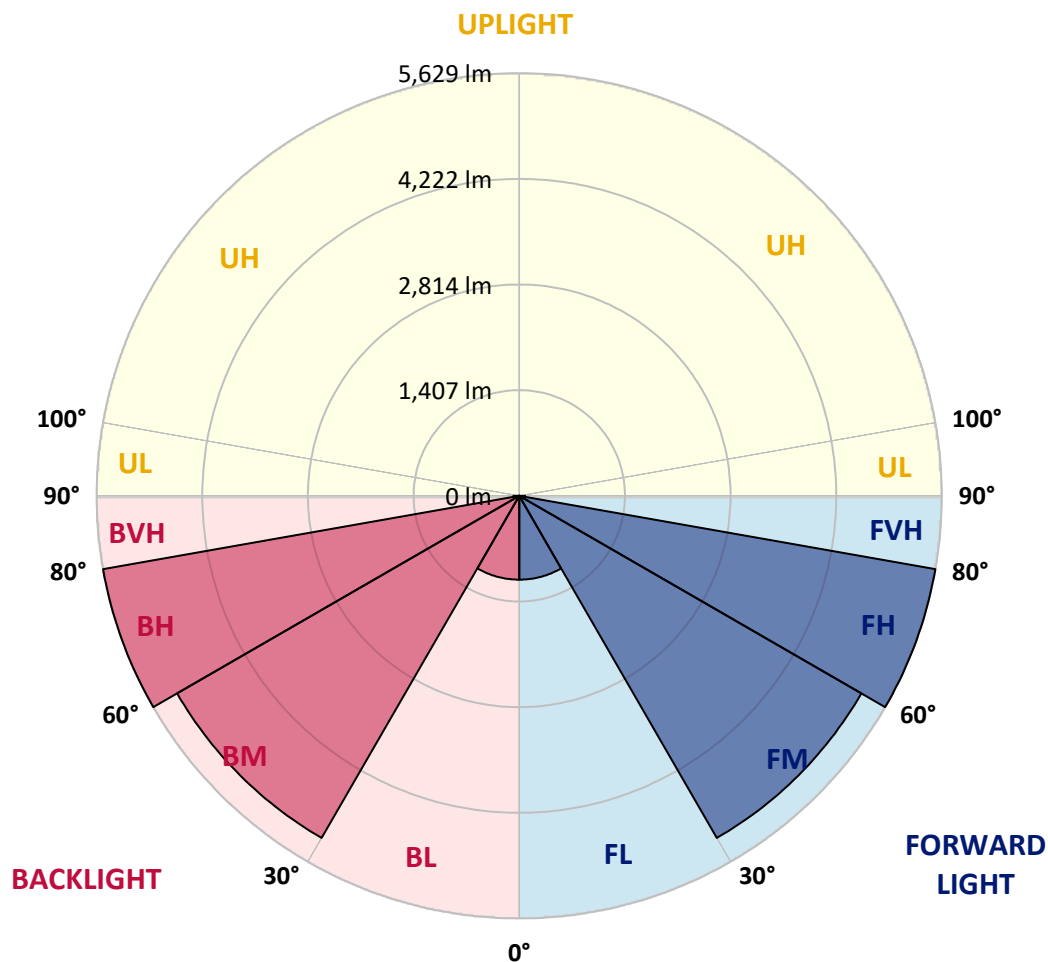
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1116.8	4.6			
FM	(30°-60°)	5261.9	21.8			
FH	(60°-80°)	5628.7	23.3			G3/7500
FVH	(80°-90°)	78.2	0.3			G1/100
BL	(0°-30°)	1116.8	4.6	B3/2500		
BM	(30°-60°)	5261.9	21.8	B4/8500		
BH	(60°-80°)	5628.7	23.3	B5		G3/7500
BVH	(80°-90°)	78.2	0.3			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°	2639.8	2639.8	2639.8	2639.8	2639.8	2639.8	2639.8	2639.8	2639.8	2639.8	2639.8
2.5°	2635.8	2633.4	2639.0	2638.2	2633.4	2634.2	2634.2	2636.6	2636.6	2635.0	2635.0
5°	2626.3	2624.7	2631.0	2631.0	2626.3	2627.9	2629.4	2631.8	2631.0	2629.4	2628.6
7.5°	2614.3	2613.5	2619.9	2619.9	2616.7	2618.3	2616.7	2617.5	2615.9	2614.3	2611.9
10°	2594.3	2595.9	2601.5	2603.1	2603.1	2603.9	2602.3	2598.3	2595.9	2593.5	2591.1
12.5°	2575.9	2575.1	2583.1	2587.1	2593.5	2600.7	2595.9	2584.7	2579.9	2575.1	2573.5
15°	2563.9	2564.7	2572.7	2579.9	2591.1	2606.3	2600.7	2583.1	2573.5	2567.9	2566.3
17.5°	2561.5	2563.1	2573.5	2586.3	2598.3	2615.1	2611.9	2594.3	2578.3	2567.9	2565.5
20°	2567.1	2567.9	2583.9	2602.3	2623.1	2639.0	2631.8	2612.7	2591.1	2575.1	2571.1
22.5°	2577.5	2580.7	2600.7	2629.4	2661.4	2683.0	2674.2	2641.4	2607.9	2587.9	2582.3
25°	2610.3	2611.1	2638.2	2677.4	2715.8	2740.6	2730.2	2683.8	2640.6	2618.3	2611.1
27.5°	2678.2	2680.6	2707.8	2753.4	2786.2	2802.2	2795.8	2758.2	2721.4	2697.4	2699.8
30°	2776.6	2779.8	2810.2	2860.6	2880.6	2884.6	2883.0	2865.4	2831.8	2799.8	2802.2
32.5°	2896.6	2898.2	2939.0	2984.6	3000.6	3003.8	3000.6	2984.6	2944.6	2901.4	2903.8
35°	3051.0	3055.8	3095.0	3139.0	3151.8	3158.2	3152.6	3131.8	3090.2	3047.8	3046.2
37.5°	3241.4	3242.2	3283.0	3328.6	3344.6	3346.2	3339.8	3326.2	3274.2	3235.8	3233.4
40°	3462.2	3465.4	3513.4	3562.2	3568.6	3561.4	3570.2	3562.2	3508.6	3464.6	3471.8
42.5°	3731.0	3738.2	3795.8	3843.8	3825.4	3821.4	3827.0	3829.4	3786.2	3732.6	3727.8
45°	4043.8	4050.2	4122.2	4160.6	4148.6	4122.2	4133.4	4152.6	4092.6	4026.2	4032.6
47.5°	4400.5	4416.5	4493.3	4529.3	4499.7	4463.7	4485.3	4514.1	4443.7	4361.4	4357.4
50°	4797.3	4817.3	4919.7	4970.1	4940.5	4874.1	4910.1	4929.3	4827.7	4721.3	4712.5
52.5°	5220.5	5240.5	5369.3	5473.3	5454.1	5350.9	5401.3	5381.3	5264.5	5121.3	5110.1
55°	5699.7	5707.7	5846.9	6014.9	6034.1	5958.1	5954.9	5922.1	5749.3	5583.7	5575.7
57.5°	6192.4	6198.0	6378.0	6576.4	6666.8	6666.8	6577.2	6507.6	6278.0	6086.1	6066.1
60°	6724.4	6744.4	6943.6	7213.2	7424.4	7486.8	7328.4	7138.8	6889.2	6654.8	6631.6
62.5°	7198.0	7221.2	7526.0	7927.5	8266.7	8493.9	8106.7	7798.0	7343.6	6967.6	6923.6
65°	7258.0	7320.4	7764.4	8491.5	9250.7	9704.2	8961.9	8201.1	7373.2	6850.8	6806.0
67.5°	6628.4	6734.0	7334.0	8465.9	10034.6	11008.2	9508.3	7970.7	6842.0	6264.4	6214.8
70°	5093.3	5246.9	5938.9	7405.2	9899.4	11428.1	9165.9	6978.0	5704.5	5082.9	5013.3
72.5°	2794.2	2857.4	3479.8	5070.9	7936.3	9711.4	7645.2	5159.7	3783.0	3078.2	2961.4
75°	886.3	908.7	1225.5	2075.1	4489.3	6432.4	4856.5	2532.7	1394.3	1027.9	1015.9
77.5°	393.6	396.0	443.2	605.6	1546.3	3259.0	1857.5	689.6	475.2	415.2	428.8
80°	248.8	248.8	274.4	300.0	420.8	946.3	502.4	328.0	280.0	260.0	265.6
82.5°	119.2	132.0	178.4	192.0	231.2	318.4	257.6	214.4	187.2	139.2	129.6
85°	78.4	65.6	112.8	127.2	134.4	152.8	149.6	141.6	122.4	69.6	77.6
87.5°	35.2	33.6	58.4	53.6	50.4	38.4	57.6	71.2	68.8	34.4	34.4
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)