

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: P316591

Luminaire Tested: **GAN-SA7A-827-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316591
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-SA7A-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25456 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

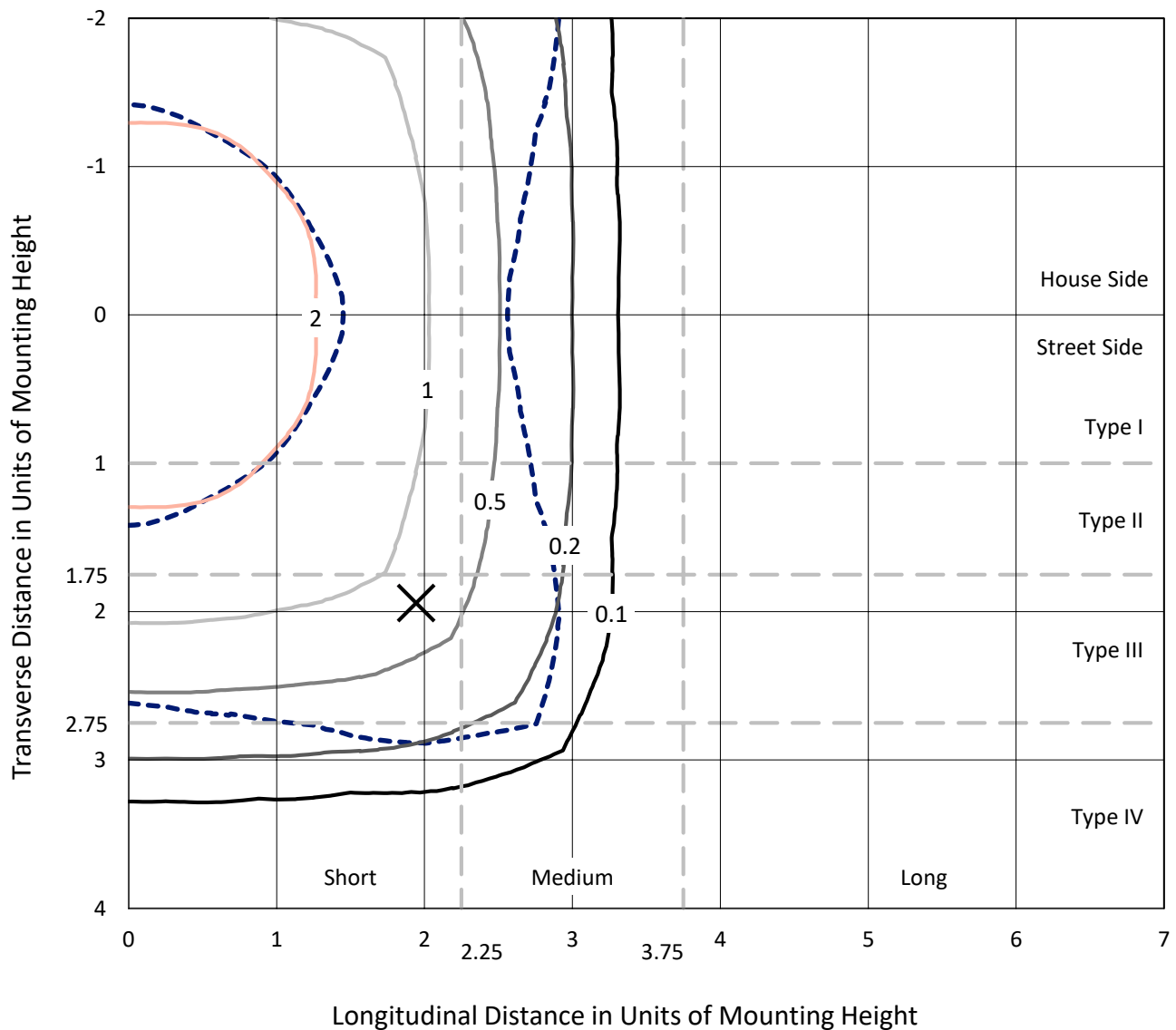
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

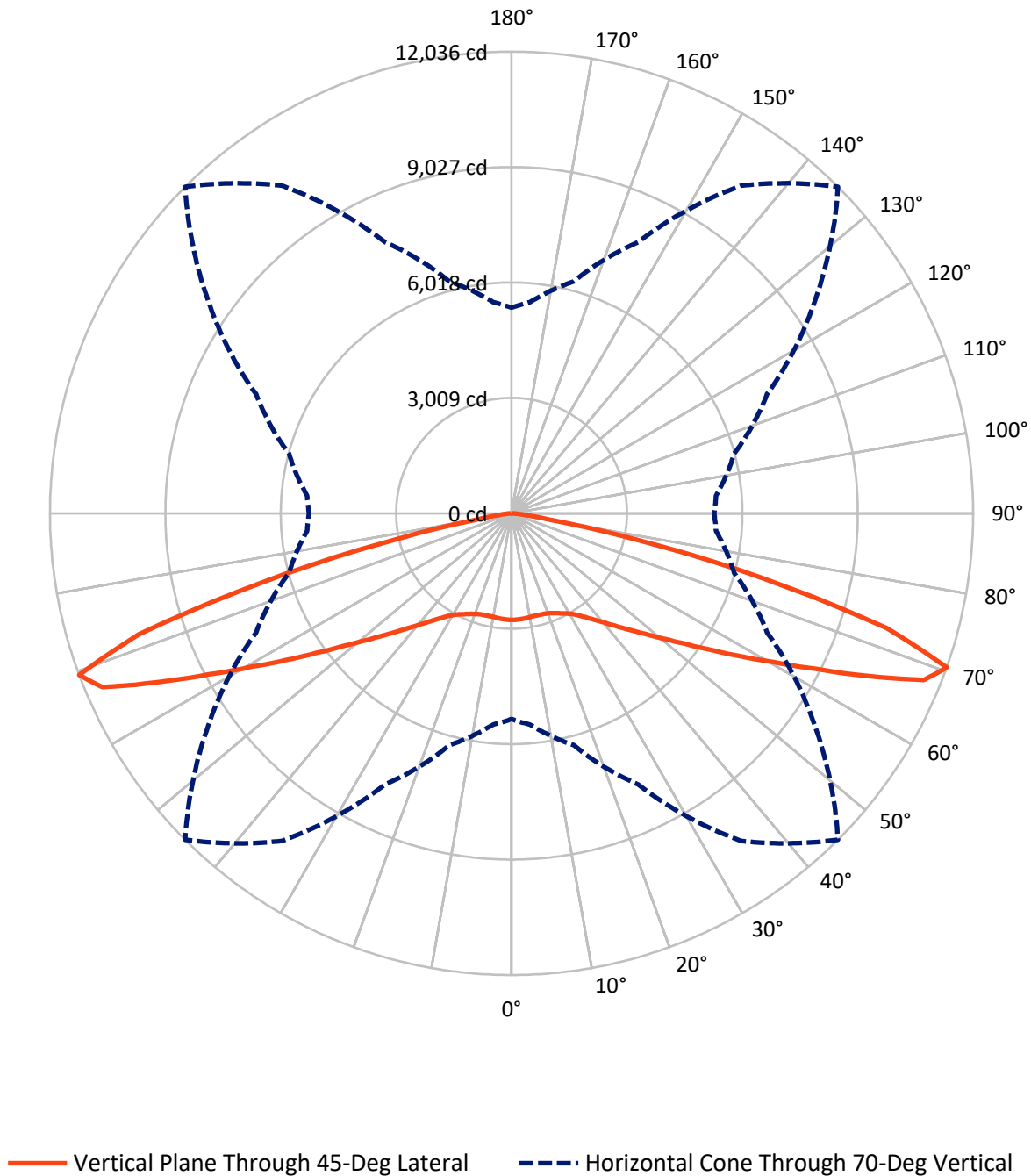
✕ Max cd
 - - - 1/2 Max cd



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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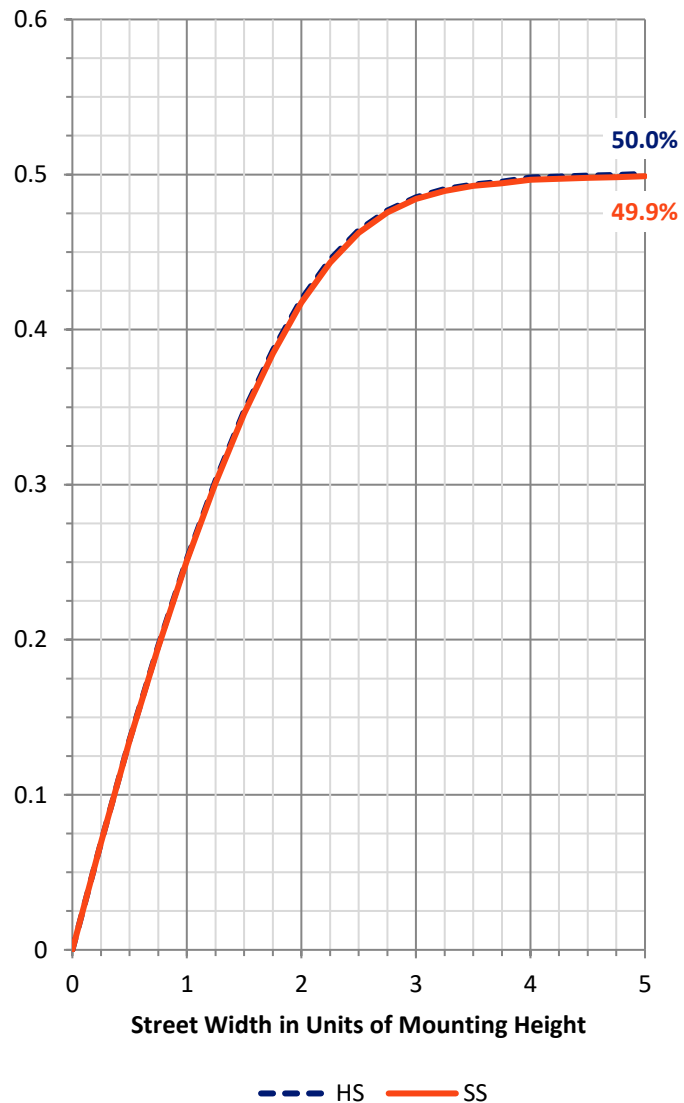
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12728.0	0.0	12728.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12728.0	0.0	12728.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25456.0	0.0	25456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.3	1.0
10°-20°	773.0	3.0
20°-30°	1315.9	5.2
30°-40°	2087.1	8.2
40°-50°	3396.3	13.3
50°-60°	5599.8	22.0
60°-70°	8220.7	32.3
70°-80°	3635.2	14.3
80°-90°	164.6	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°	25456.0	100.0
0°-180°	25456.0	100.0

Coefficient of Utilization



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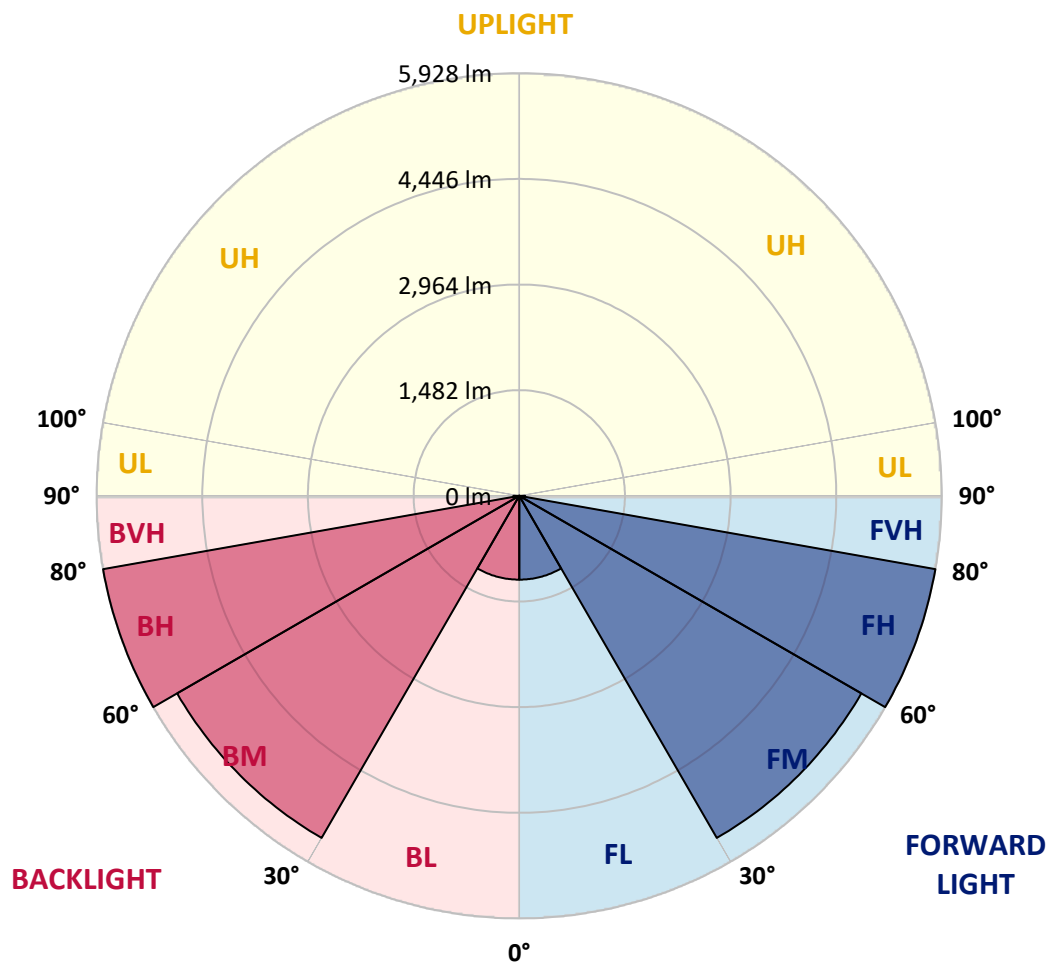
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1176.1	4.6			
FM	(30°-60°)	5541.6	21.8			
FH	(60°-80°)	5928.0	23.3			G3/7500
FVH	(80°-90°)	82.3	0.3			G1/100
BL	(0°-30°)	1176.1	4.6	B3/2500		
BM	(30°-60°)	5541.6	21.8	B4/8500		
BH	(60°-80°)	5928.0	23.3	B5		G3/7500
BVH	(80°-90°)	82.3	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°	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2
2.5°	2776.0	2773.5	2779.3	2778.5	2773.5	2774.3	2774.3	2776.8	2776.8	2775.1	2775.1
5°	2765.9	2764.2	2770.9	2770.9	2765.9	2767.6	2769.2	2771.8	2770.9	2769.2	2768.4
7.5°	2753.2	2752.4	2759.1	2759.1	2755.8	2757.4	2755.8	2756.6	2754.9	2753.2	2750.7
10°	2732.2	2733.9	2739.8	2741.4	2741.4	2742.3	2740.6	2736.4	2733.9	2731.3	2728.8
12.5°	2712.8	2712.0	2720.4	2724.6	2731.3	2738.9	2733.9	2722.1	2717.0	2712.0	2710.3
15°	2700.2	2701.0	2709.4	2717.0	2728.8	2744.8	2738.9	2720.4	2710.3	2704.4	2702.7
17.5°	2697.6	2699.3	2710.3	2723.7	2736.4	2754.1	2750.7	2732.2	2715.3	2704.4	2701.8
20°	2703.5	2704.4	2721.2	2740.6	2762.5	2779.3	2771.8	2751.5	2728.8	2712.0	2707.7
22.5°	2714.5	2717.8	2738.9	2769.2	2802.9	2825.7	2816.4	2781.9	2746.5	2725.4	2719.5
25°	2749.0	2749.9	2778.5	2819.8	2860.2	2886.3	2875.4	2826.5	2781.0	2757.4	2749.9
27.5°	2820.6	2823.2	2851.8	2899.8	2934.4	2951.2	2944.5	2904.9	2866.1	2840.9	2843.4
30°	2924.3	2927.6	2959.6	3012.7	3033.8	3038.0	3036.3	3017.8	2982.4	2948.7	2951.2
32.5°	3050.6	3052.3	3095.3	3143.3	3160.2	3163.5	3160.2	3143.3	3101.2	3055.7	3058.2
35°	3213.2	3218.3	3259.6	3305.9	3319.4	3326.1	3320.2	3298.3	3254.5	3209.9	3208.2
37.5°	3413.7	3414.6	3457.5	3505.6	3522.4	3524.1	3517.4	3503.0	3448.3	3407.8	3405.3
40°	3646.3	3649.6	3700.2	3751.6	3758.3	3750.7	3760.0	3751.6	3695.1	3648.8	3656.4
42.5°	3929.3	3936.9	3997.6	4048.1	4028.8	4024.5	4030.4	4033.0	3987.5	3931.0	3926.0
45°	4258.7	4265.5	4341.3	4381.8	4369.1	4341.3	4353.1	4373.3	4310.1	4240.2	4247.0
47.5°	4634.5	4651.3	4732.2	4770.1	4739.0	4701.1	4723.8	4754.1	4680.0	4593.2	4589.0
50°	5052.4	5073.4	5181.3	5234.3	5203.2	5133.2	5171.2	5191.4	5084.4	4972.3	4963.1
52.5°	5498.0	5519.1	5654.7	5764.3	5744.0	5635.4	5688.4	5667.4	5544.4	5393.6	5381.8
55°	6002.7	6011.1	6157.7	6334.6	6354.8	6274.8	6271.4	6236.9	6054.9	5880.5	5872.1
57.5°	6521.7	6527.6	6717.1	6926.0	7021.2	7021.2	6926.9	6853.6	6611.8	6409.6	6388.5
60°	7081.9	7103.0	7312.7	7596.7	7819.1	7884.8	7718.0	7518.3	7255.5	7008.6	6984.2
62.5°	7580.7	7605.1	7926.1	8349.0	8706.2	8945.5	8537.7	8212.5	7734.0	7338.0	7291.7
65°	7643.8	7709.6	8177.1	8942.9	9742.5	10220.2	9438.3	8637.1	7765.2	7215.0	7167.8
67.5°	6980.8	7092.0	7723.9	8916.0	10568.1	11593.4	10013.7	8394.5	7205.8	6597.5	6545.2
70°	5364.1	5525.8	6254.6	7798.9	10425.7	12035.7	9653.2	7349.0	6007.7	5353.1	5279.8
72.5°	2942.8	3009.3	3664.8	5340.5	8358.3	10227.7	8051.6	5434.0	3984.1	3241.9	3118.9
75°	933.5	957.1	1290.7	2185.4	4728.0	6774.4	5114.7	2667.3	1468.4	1082.6	1070.0
77.5°	414.5	417.0	466.7	637.8	1628.5	3432.3	1956.2	726.2	500.4	437.2	451.6
80°	262.0	262.0	289.0	315.9	443.1	996.7	529.1	345.4	294.9	273.8	279.7
82.5°	125.5	139.0	187.9	202.2	243.5	335.3	271.3	225.8	197.1	146.6	136.5
85°	82.6	69.1	118.8	134.0	141.5	160.9	157.5	149.1	128.9	73.3	81.7
87.5°	37.1	35.4	61.5	56.4	53.1	40.4	60.7	75.0	72.5	36.2	36.2
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)