

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: P316593

Luminaire Tested: **GAN-SA9A-827-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316593
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-SA9A-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 32173 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

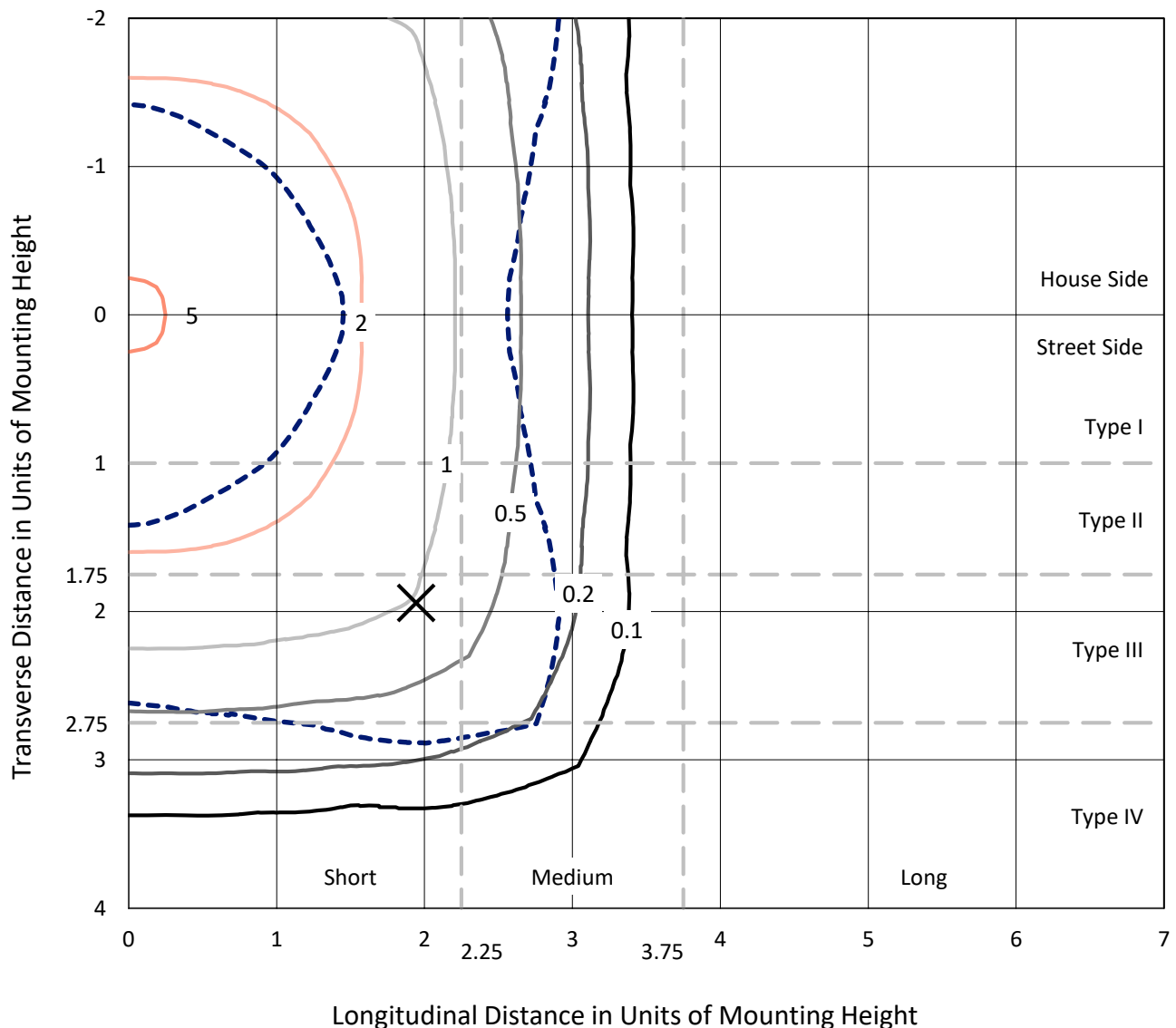
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

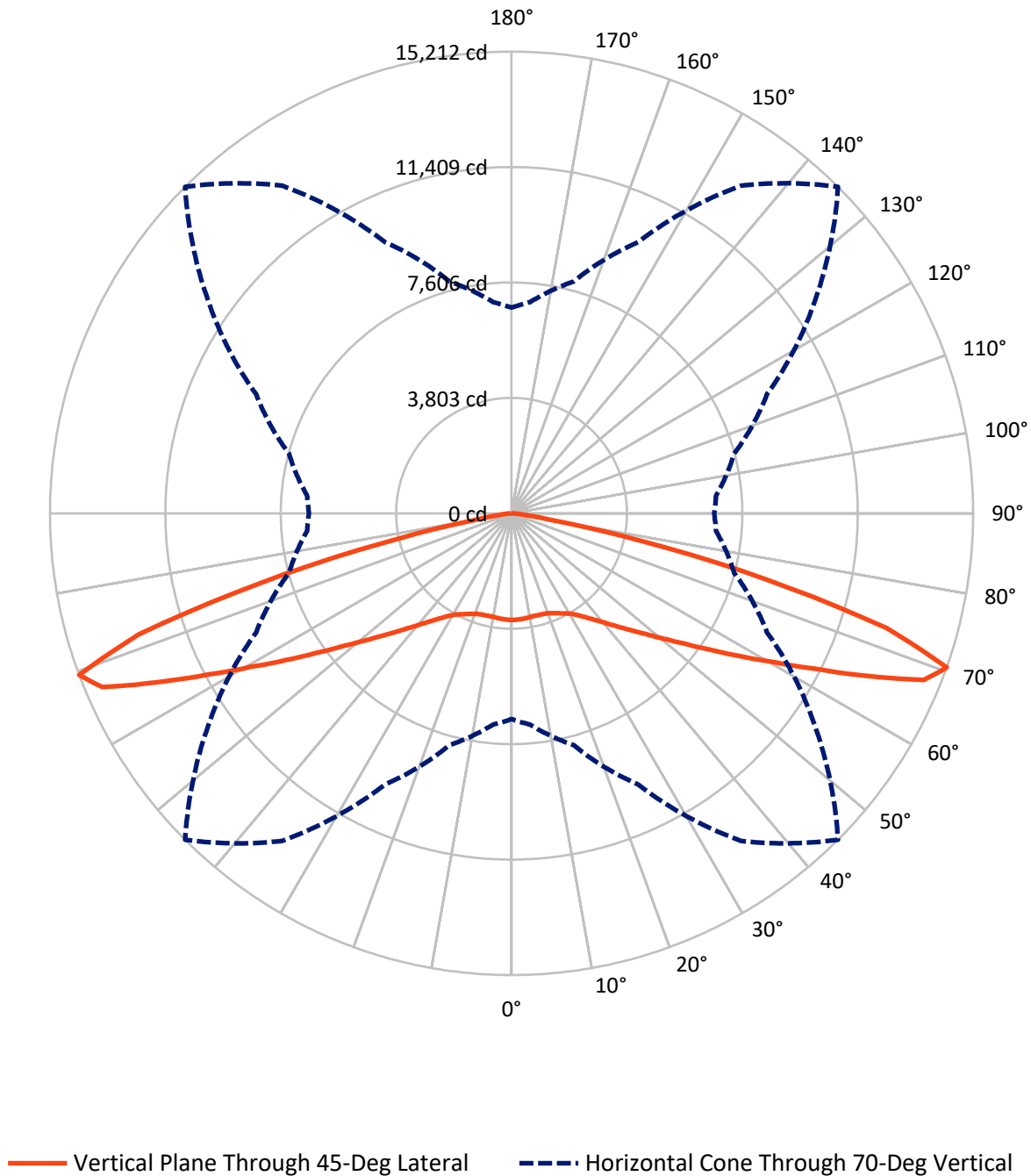
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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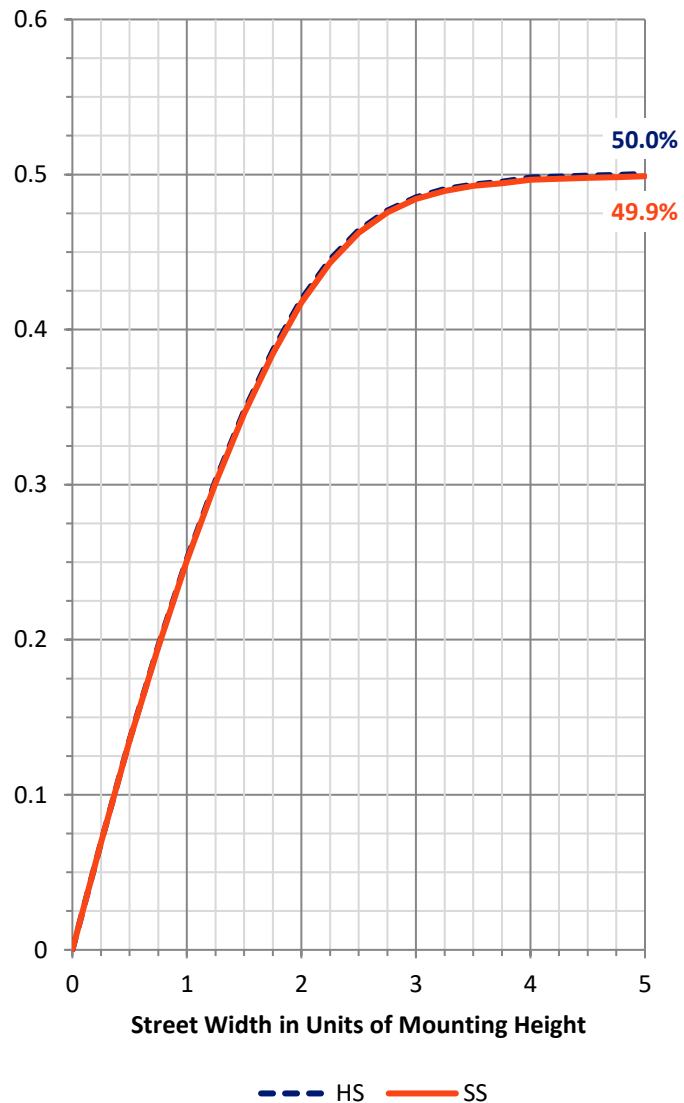
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16086.5	0.0	16086.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16086.5	0.0	16086.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32173.0	0.0	32173.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.8	1.0
10°-20°	977.0	3.0
20°-30°	1663.2	5.2
30°-40°	2637.8	8.2
40°-50°	4292.4	13.3
50°-60°	7077.5	22.0
60°-70°	10389.9	32.3
70°-80°	4594.4	14.3
80°-90°	208.1	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°	32173.0	100.0
0°-180°	32173.0	100.0

Coefficient of Utilization



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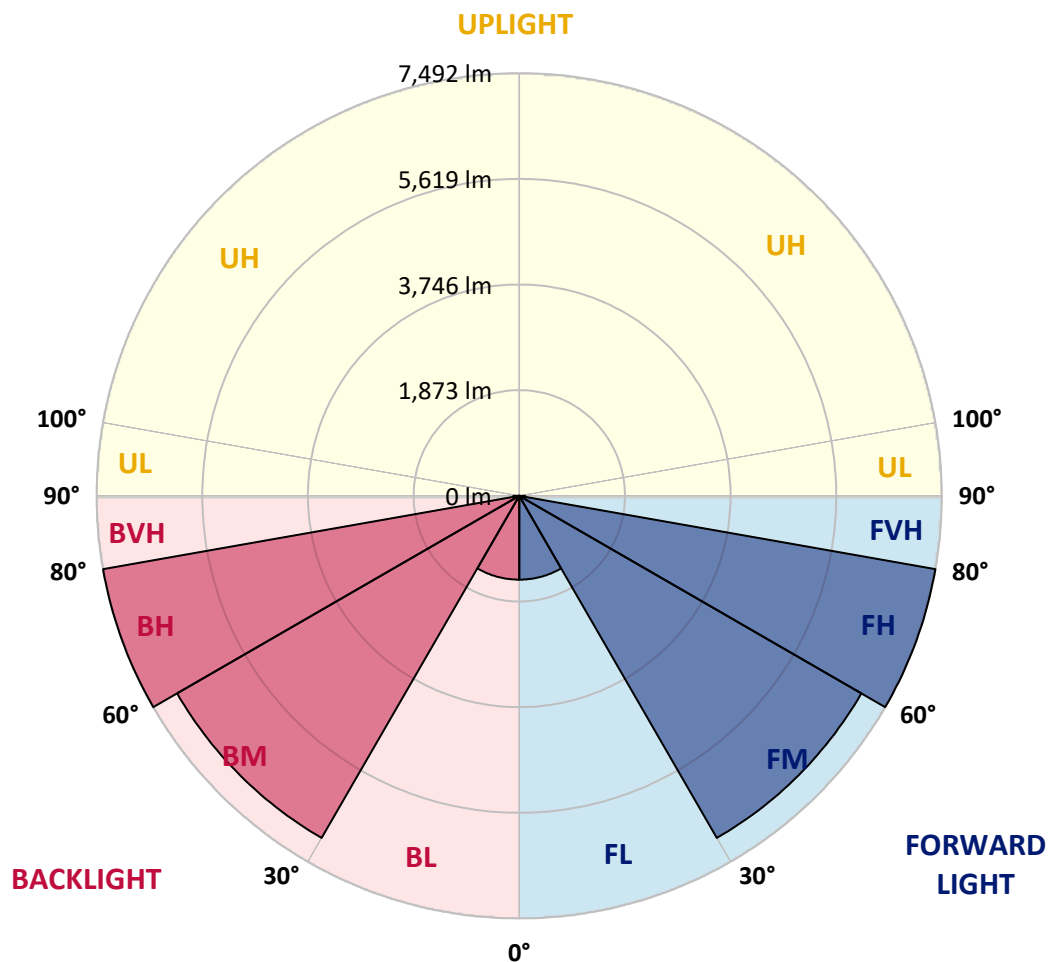
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1486.5	4.6			
FM	(30°-60°)	7003.8	21.8			
FH	(60°-80°)	7492.2	23.3			G3/7500
FVH	(80°-90°)	104.0	0.3			G2/225
BL	(0°-30°)	1486.5	4.6	B3/2500		
BM	(30°-60°)	7003.8	21.8	B4/8500		
BH	(60°-80°)	7492.2	23.3	B5		G3/7500
BVH	(80°-90°)	104.0	0.3			G2/225
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°	3513.8	3513.8	3513.8	3513.8	3513.8	3513.8	3513.8	3513.8	3513.8	3513.8	3513.8
2.5°	3508.5	3505.3	3512.7	3511.7	3505.3	3506.3	3506.3	3509.5	3509.5	3507.4	3507.4
5°	3495.7	3493.6	3502.1	3502.1	3495.7	3497.8	3500.0	3503.1	3502.1	3500.0	3498.9
7.5°	3479.7	3478.7	3487.2	3487.2	3482.9	3485.0	3482.9	3484.0	3481.8	3479.7	3476.5
10°	3453.1	3455.2	3462.7	3464.8	3464.8	3465.9	3463.7	3458.4	3455.2	3452.0	3448.8
12.5°	3428.6	3427.5	3438.2	3443.5	3452.0	3461.6	3455.2	3440.3	3433.9	3427.5	3425.4
15°	3412.6	3413.7	3424.4	3433.9	3448.8	3469.1	3461.6	3438.2	3425.4	3418.0	3415.8
17.5°	3409.4	3411.6	3425.4	3442.5	3458.4	3480.8	3476.5	3453.1	3431.8	3418.0	3414.8
20°	3416.9	3418.0	3439.3	3463.7	3491.4	3512.7	3503.1	3477.6	3448.8	3427.5	3422.2
22.5°	3430.7	3435.0	3461.6	3500.0	3542.5	3571.3	3559.6	3515.9	3471.2	3444.6	3437.1
25°	3474.4	3475.5	3511.7	3563.8	3614.9	3648.0	3634.1	3572.4	3514.9	3485.0	3475.5
27.5°	3564.9	3568.1	3604.3	3665.0	3708.6	3729.9	3721.4	3671.4	3622.4	3590.5	3593.7
30°	3695.9	3700.1	3740.6	3807.7	3834.3	3839.6	3837.5	3814.1	3769.3	3726.7	3729.9
32.5°	3855.6	3857.7	3912.0	3972.7	3994.0	3998.3	3994.0	3972.7	3919.5	3862.0	3865.2
35°	4061.1	4067.5	4119.7	4178.2	4195.3	4203.8	4196.3	4168.6	4113.3	4056.8	4054.7
37.5°	4314.5	4315.6	4369.9	4430.6	4451.9	4454.0	4445.5	4427.4	4358.2	4307.1	4303.9
40°	4608.4	4612.7	4676.5	4741.5	4750.0	4740.4	4752.1	4741.5	4670.1	4611.6	4621.2
42.5°	4966.2	4975.7	5052.4	5116.3	5091.8	5086.5	5093.9	5097.1	5039.6	4968.3	4961.9
45°	5382.5	5391.0	5486.8	5537.9	5522.0	5486.8	5501.7	5527.3	5447.4	5359.1	5367.6
47.5°	5857.4	5878.7	5980.9	6028.8	5989.4	5941.5	5970.3	6008.6	5914.9	5805.2	5799.9
50°	6385.5	6412.1	6548.4	6615.5	6576.1	6487.7	6535.7	6561.2	6426.0	6284.4	6272.7
52.5°	6948.8	6975.4	7146.8	7285.3	7259.7	7122.4	7189.4	7162.8	7007.4	6816.8	6801.9
55°	7586.6	7597.2	7782.5	8006.1	8031.7	7930.5	7926.3	7882.6	7652.6	7432.2	7421.6
57.5°	8242.5	8250.0	8489.5	8753.6	8873.9	8873.9	8754.7	8662.0	8356.4	8100.9	8074.3
60°	8950.6	8977.2	9242.3	9601.2	9882.3	9965.3	9754.5	9502.1	9169.9	8858.0	8827.1
62.5°	9580.9	9611.8	10017.5	10552.0	11003.5	11305.9	10790.5	10379.5	9774.7	9274.3	9215.7
65°	9660.8	9743.9	10334.8	11302.7	12313.2	12916.9	11928.8	10916.2	9814.1	9118.8	9059.2
67.5°	8822.8	8963.4	9762.0	11268.6	13356.7	14652.5	12656.0	10609.5	9107.1	8338.3	8272.3
70°	6779.5	6983.9	7905.0	9856.7	13176.7	15211.5	12200.3	9288.1	7593.0	6765.6	6673.0
72.5°	3719.3	3803.4	4631.8	6749.7	10563.7	12926.5	10176.2	6867.9	5035.4	4097.3	3941.8
75°	1179.8	1209.6	1631.3	2762.1	5975.6	8561.9	6464.3	3371.1	1855.9	1368.2	1352.3
77.5°	523.9	527.1	589.9	806.0	2058.2	4337.9	2472.4	917.8	632.5	552.6	570.7
80°	331.1	331.1	365.2	399.3	560.1	1259.6	668.7	436.6	372.7	346.1	353.5
82.5°	158.7	175.7	237.4	255.5	307.7	423.8	342.9	285.4	249.2	185.3	172.5
85°	104.3	87.3	150.1	169.3	178.9	203.4	199.1	188.5	162.9	92.6	103.3
87.5°	46.9	44.7	77.7	71.3	67.1	51.1	76.7	94.8	91.6	45.8	45.8
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)