

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: P457326

Luminaire Tested: **GALN-SA8C-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47215 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 429
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

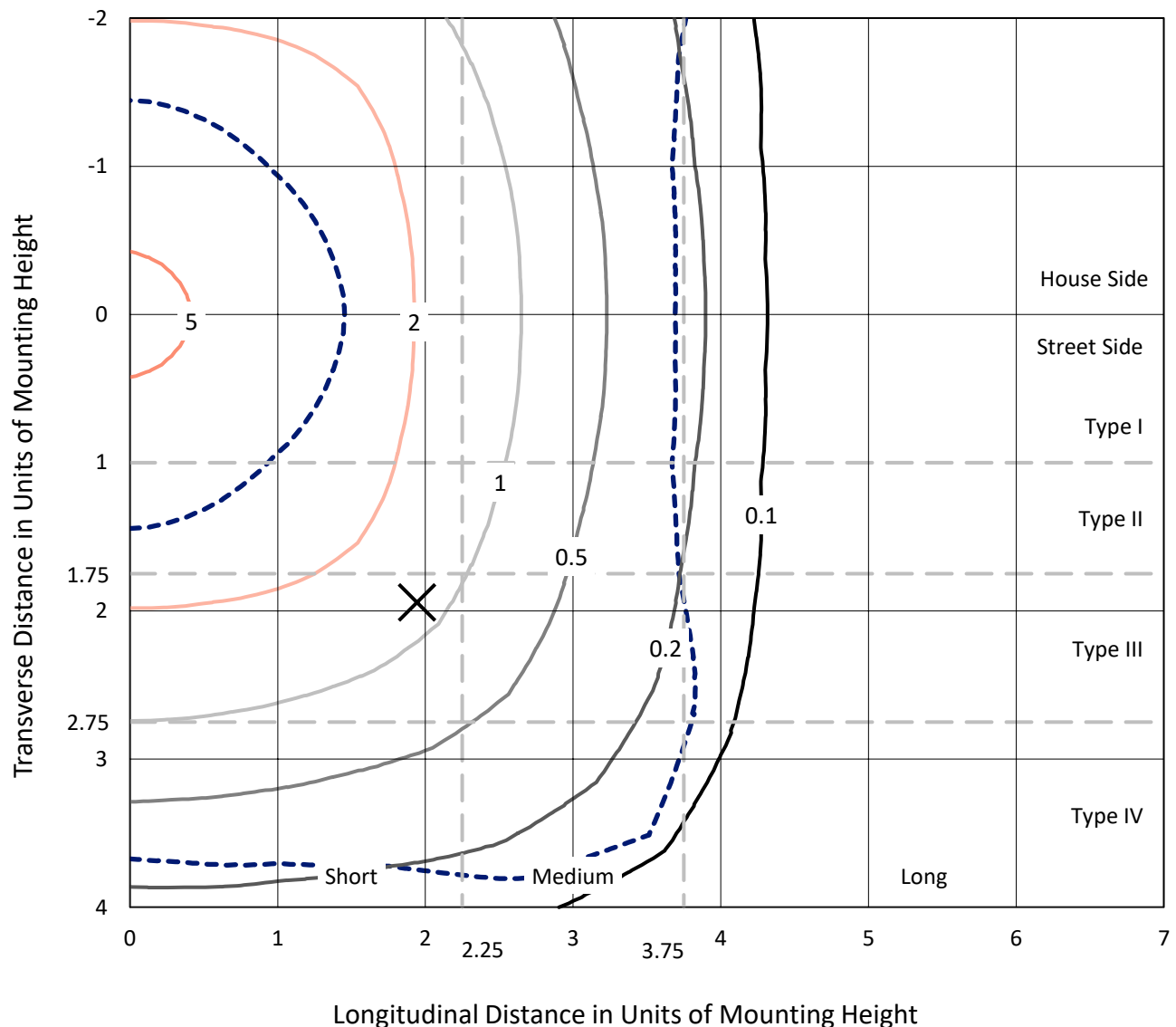


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

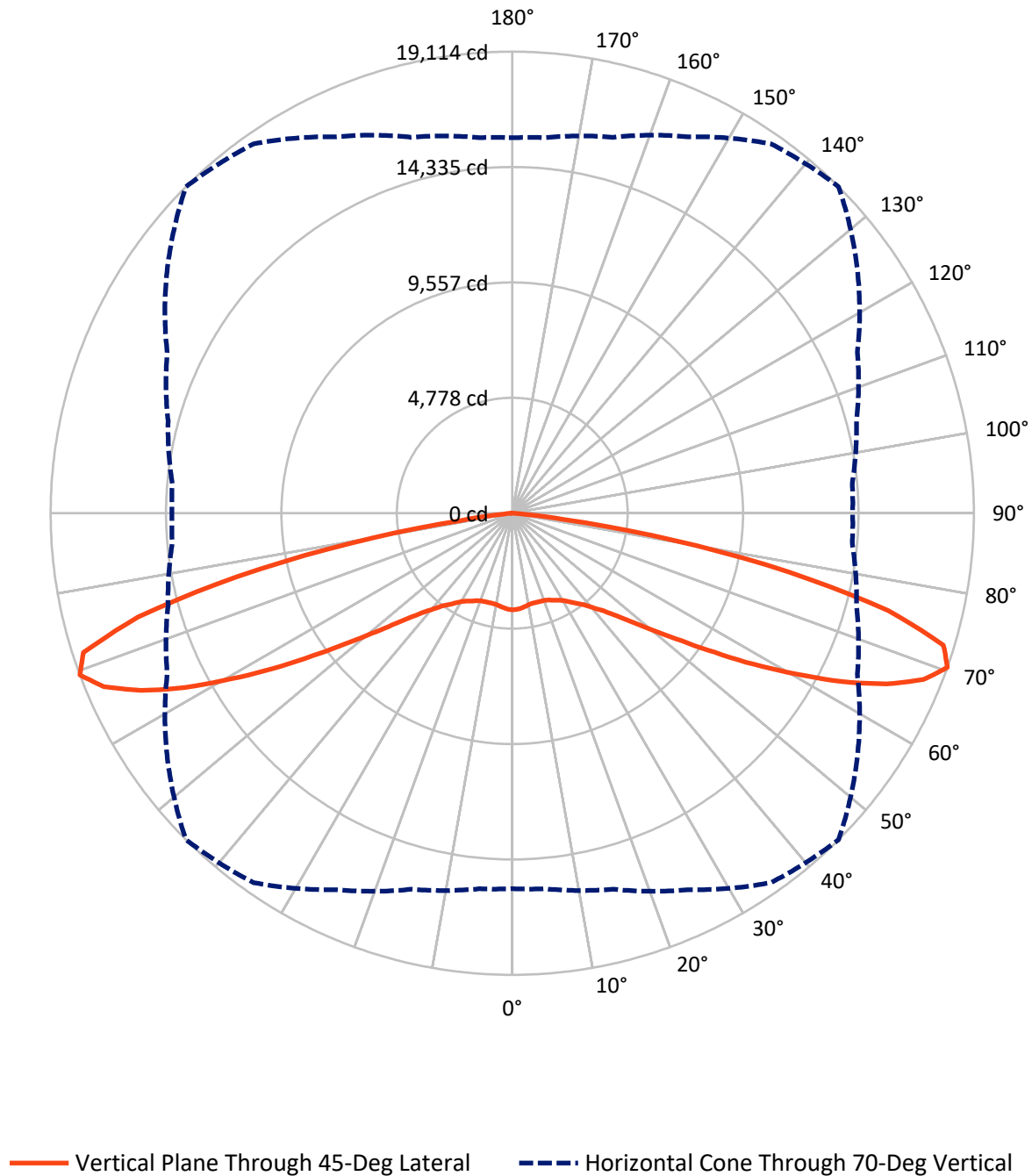


Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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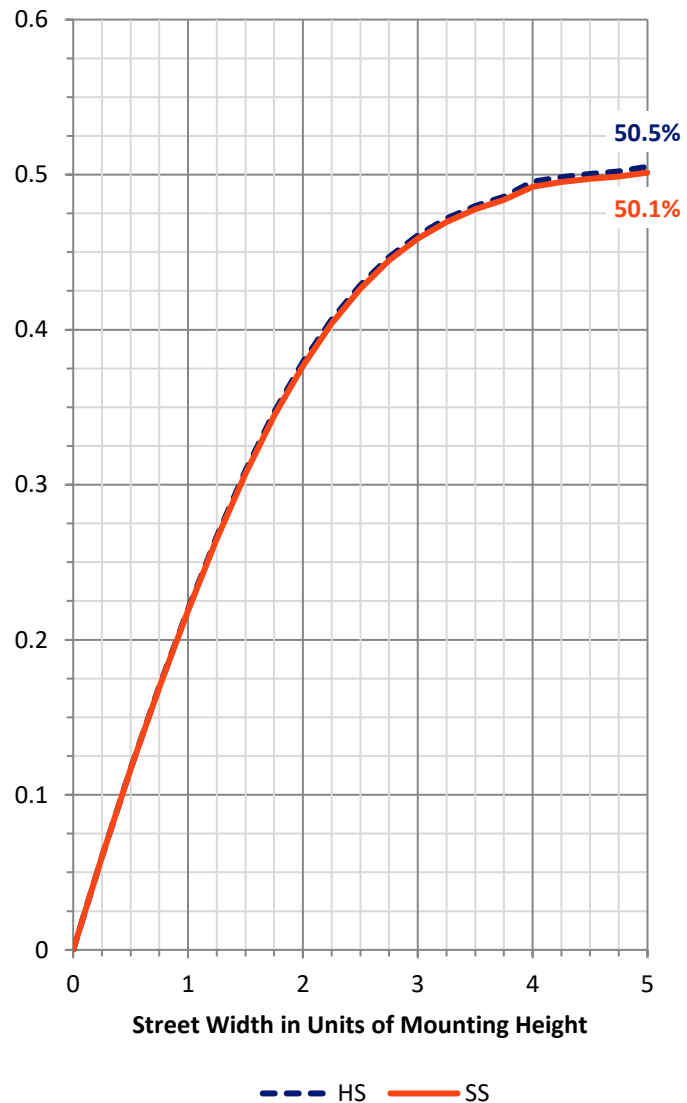
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23607.5	0.0	23607.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23607.5	0.0	23607.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	47215.0	0.0	47215.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.8	0.8
10°-20°	1094.4	2.3
20°-30°	1864.6	3.9
30°-40°	2890.1	6.1
40°-50°	4864.4	10.3
50°-60°	8850.6	18.7
60°-70°	14983.9	31.7
70°-80°	11598.1	24.6
80°-90°	695.0	1.5
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°	47215.0	100.0
0°-180°	47215.0	100.0

Coefficient of Utilization



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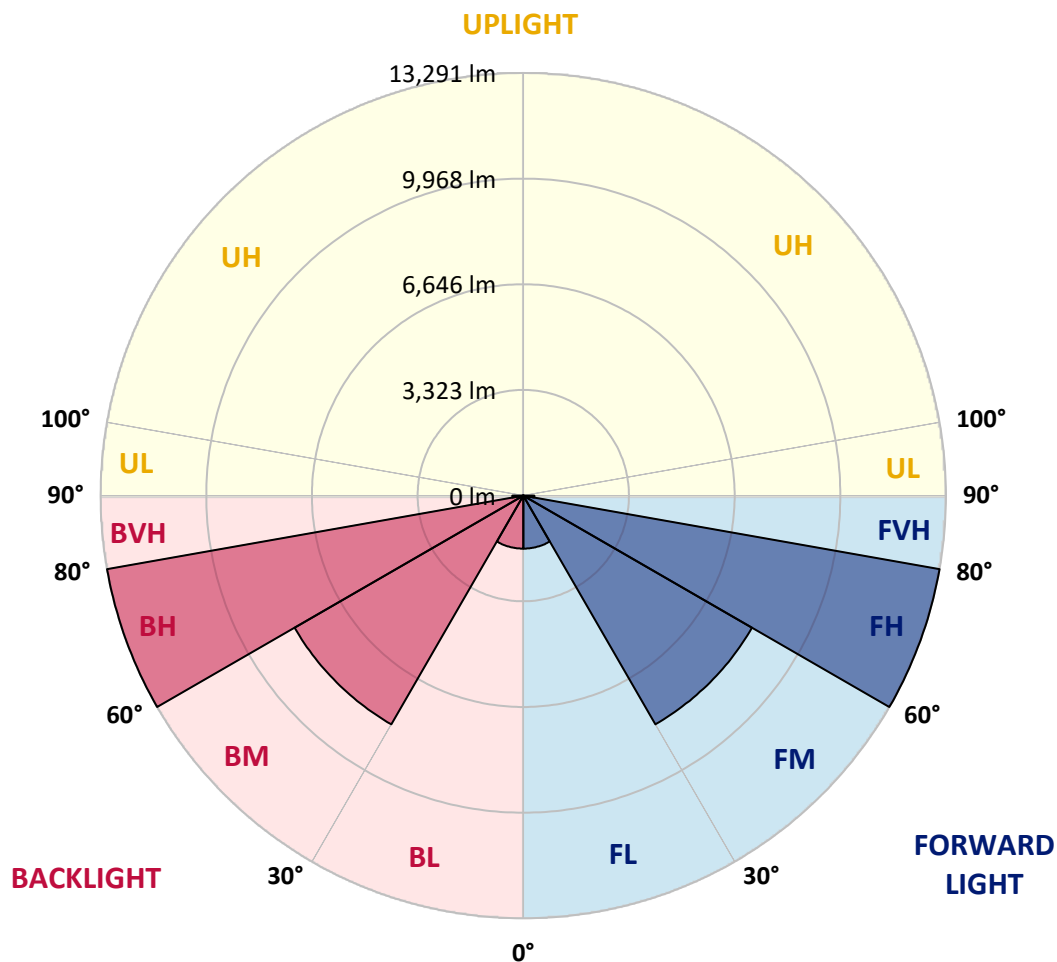
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1666.4	3.5			
FM	(30°-60°)	8302.6	17.6			
FH	(60°-80°)	13291.0	28.1			G5
FVH	(80°-90°)	347.5	0.7			G3/500
BL	(0°-30°)	1666.4	3.5	B3/2500		
BM	(30°-60°)	8302.6	17.6	B4/8500		
BH	(60°-80°)	13291.0	28.1	B5		G5
BVH	(80°-90°)	347.5	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3997.3	3997.3	3997.3	3997.3	3997.3	3997.3	3997.3	3997.3	3997.3	3997.3	3997.3
2.5°	3987.4	3989.8	3989.8	3984.9	3982.4	3982.4	3979.9	3979.9	3987.4	3989.8	3992.3
5°	3952.4	3952.4	3952.4	3949.9	3945.0	3945.0	3940.0	3940.0	3942.5	3949.9	3945.0
7.5°	3905.1	3910.1	3910.1	3900.1	3892.6	3892.6	3890.1	3892.6	3895.1	3902.6	3900.1
10°	3890.1	3892.6	3880.1	3862.7	3850.2	3842.7	3845.2	3850.2	3862.7	3867.7	3870.2
12.5°	3900.1	3900.1	3877.6	3852.7	3830.3	3820.3	3817.8	3835.2	3857.7	3872.6	3877.6
15°	3912.5	3907.6	3880.1	3847.7	3825.3	3822.8	3820.3	3832.7	3865.2	3895.1	3897.6
17.5°	3920.0	3917.5	3882.6	3842.7	3830.3	3830.3	3827.8	3837.7	3872.6	3910.1	3912.5
20°	3945.0	3937.5	3897.6	3855.2	3845.2	3850.2	3842.7	3855.2	3892.6	3937.5	3947.5
22.5°	3994.8	3987.4	3947.5	3905.1	3900.1	3900.1	3897.6	3910.1	3949.9	3997.3	4004.8
25°	4054.7	4047.2	4009.8	3979.9	3984.9	3994.8	3989.8	3992.3	4024.8	4064.7	4077.1
27.5°	4134.5	4122.0	4089.6	4064.7	4079.6	4079.6	4079.6	4077.1	4097.1	4134.5	4146.9
30°	4231.7	4226.7	4191.8	4189.3	4201.8	4189.3	4189.3	4191.8	4194.3	4229.2	4241.7
32.5°	4358.9	4348.9	4331.5	4326.5	4361.4	4371.4	4336.5	4304.0	4321.5	4356.4	4363.9
35°	4568.4	4553.4	4528.5	4501.0	4528.5	4575.9	4501.0	4476.1	4521.0	4568.4	4573.4
37.5°	4852.7	4845.2	4805.3	4755.4	4752.9	4802.8	4725.5	4723.0	4807.8	4865.1	4872.6
40°	5209.2	5216.7	5166.9	5119.5	5094.5	5134.4	5074.6	5097.0	5179.3	5244.2	5239.2
42.5°	5710.5	5683.0	5605.7	5560.8	5533.4	5518.5	5503.5	5538.4	5630.7	5700.5	5755.4
45°	6296.5	6286.5	6189.3	6134.4	6074.5	6052.1	6047.1	6109.5	6221.7	6306.5	6313.9
47.5°	6959.8	6937.3	6875.0	6817.7	6795.2	6767.8	6742.8	6790.2	6902.4	6962.3	6979.7
50°	7643.1	7648.0	7648.0	7638.1	7660.5	7665.5	7598.2	7615.6	7678.0	7673.0	7668.0
52.5°	8423.6	8451.0	8580.7	8593.1	8700.4	8772.7	8650.5	8578.2	8555.7	8421.1	8431.0
55°	9341.2	9366.2	9560.7	9755.2	10044.4	10166.6	9909.8	9685.4	9525.8	9321.3	9331.3
57.5°	10485.8	10498.3	10682.8	11056.9	11515.7	11802.5	11351.1	10907.2	10583.1	10388.6	10311.3
60°	11717.7	11730.2	11999.5	12455.8	13169.0	13518.1	12959.5	12233.9	11824.9	11528.2	11548.1
62.5°	13196.4	13246.3	13488.2	14116.6	14981.9	15373.4	14632.8	13662.7	13109.1	12740.1	12755.0
65°	14779.9	14864.7	15129.0	15819.7	16617.7	17039.1	16131.5	15011.8	14323.6	13872.2	13919.6
67.5°	15807.3	15882.1	16263.6	17026.7	18021.6	18370.8	17198.7	15894.6	15034.2	14495.6	14395.9
70°	15545.4	15607.8	16116.5	17198.7	18672.5	19113.9	17453.1	15764.9	14752.5	14131.5	14091.6
72.5°	13722.6	13592.9	14336.0	15889.6	17929.4	18670.0	16652.6	14398.4	13124.1	12485.7	12410.9
75°	9094.4	9376.1	10473.3	12303.7	15168.9	16086.6	14213.8	11560.6	9957.2	9426.0	9343.7
77.5°	3039.8	3256.7	4231.7	6974.8	10341.2	11720.2	10356.1	7560.8	5348.9	4309.0	4329.0
80°	805.5	795.5	1029.9	1917.6	4468.6	6787.7	5201.8	2561.0	1401.4	1014.9	962.6
82.5°	289.3	324.2	416.4	531.1	1184.5	2109.6	1488.7	718.2	526.2	389.0	376.5
85°	127.2	124.7	179.5	212.0	296.7	394.0	349.1	304.2	266.8	177.0	164.6
87.5°	27.4	27.4	42.4	32.4	52.4	52.4	64.8	77.3	79.8	52.4	42.4
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)