

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: P316323

Luminaire Tested: **GAN-SA9B-830-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42761 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

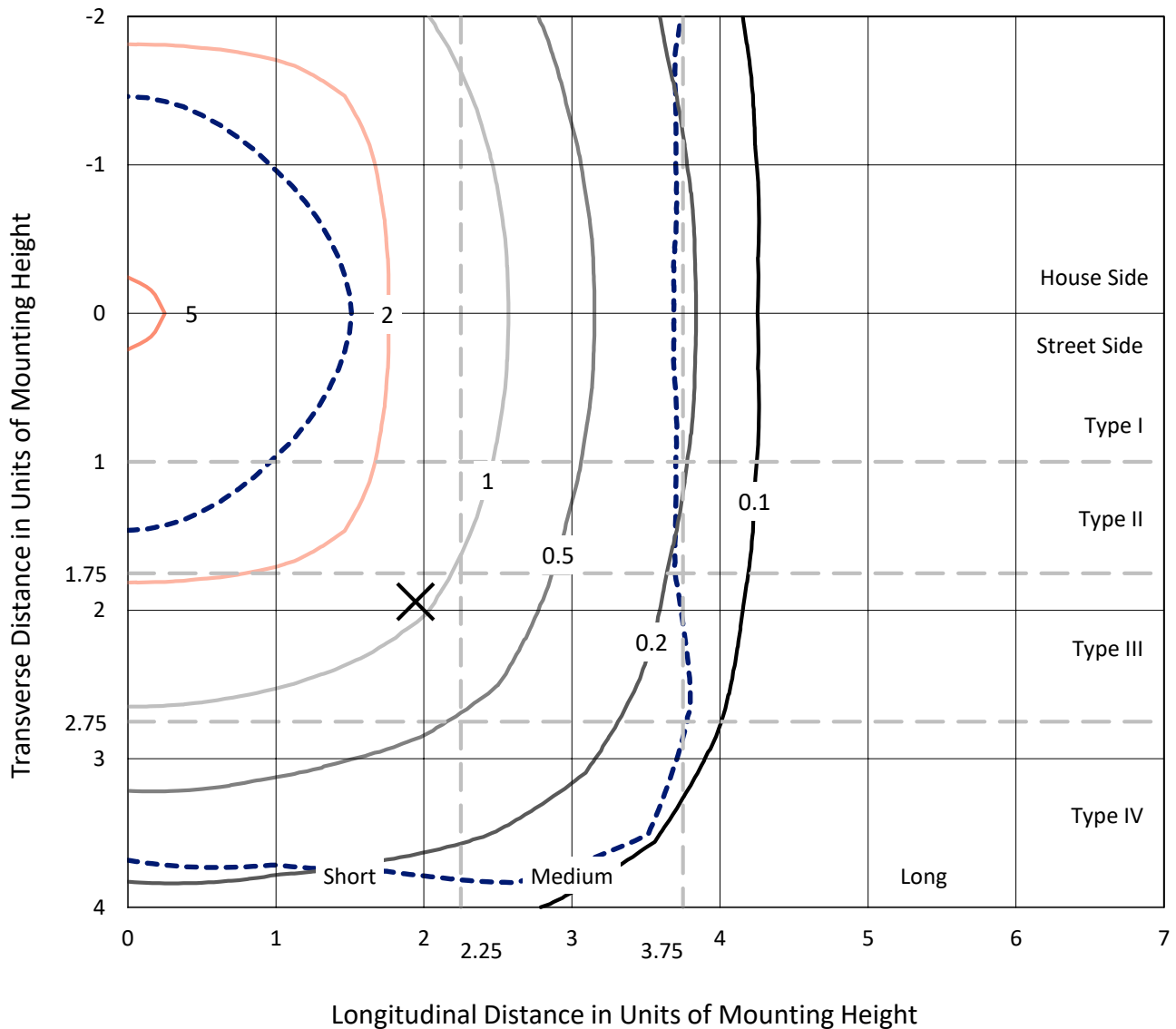
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

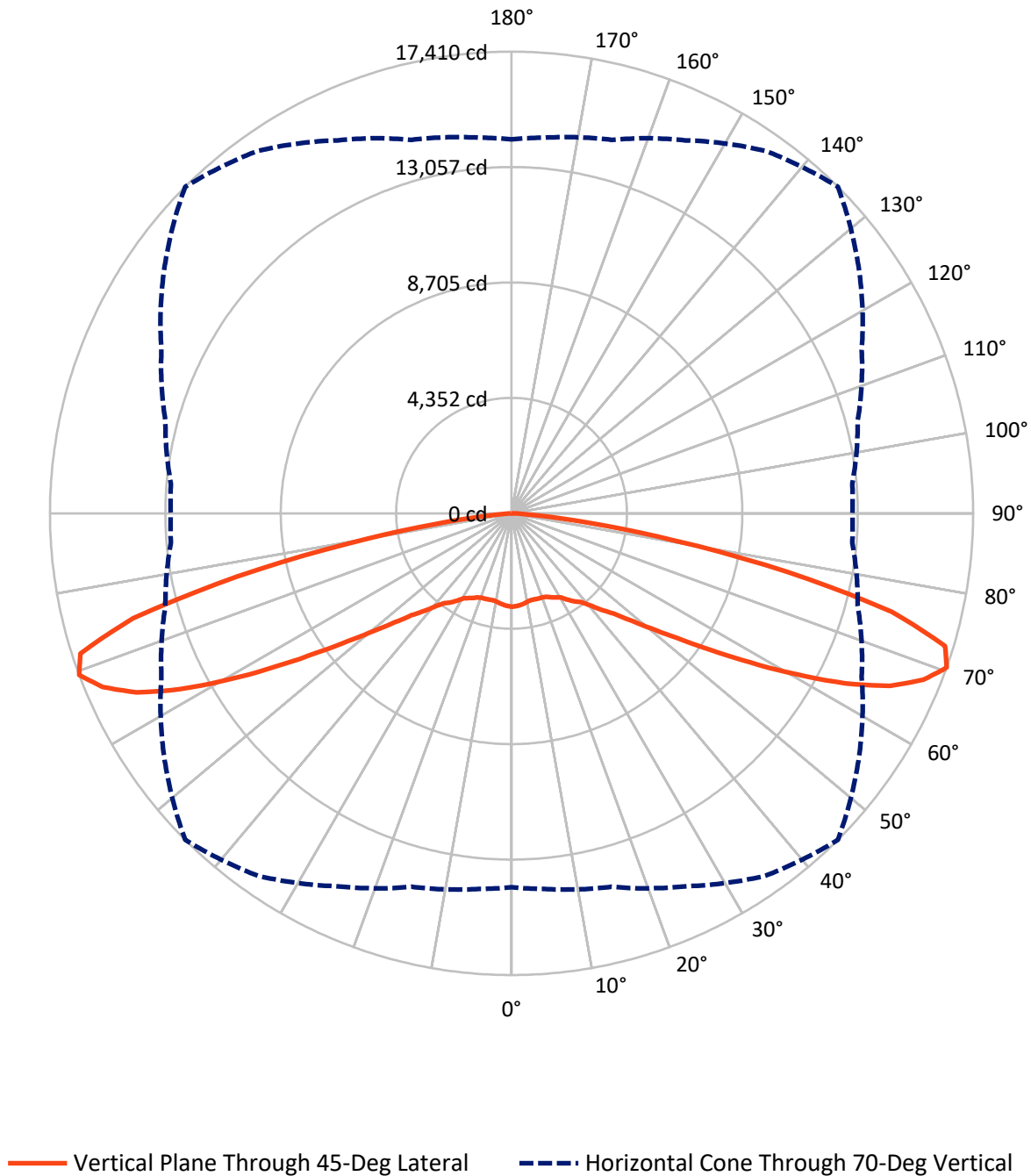
× Max cd
- - - 1/2 Max cd



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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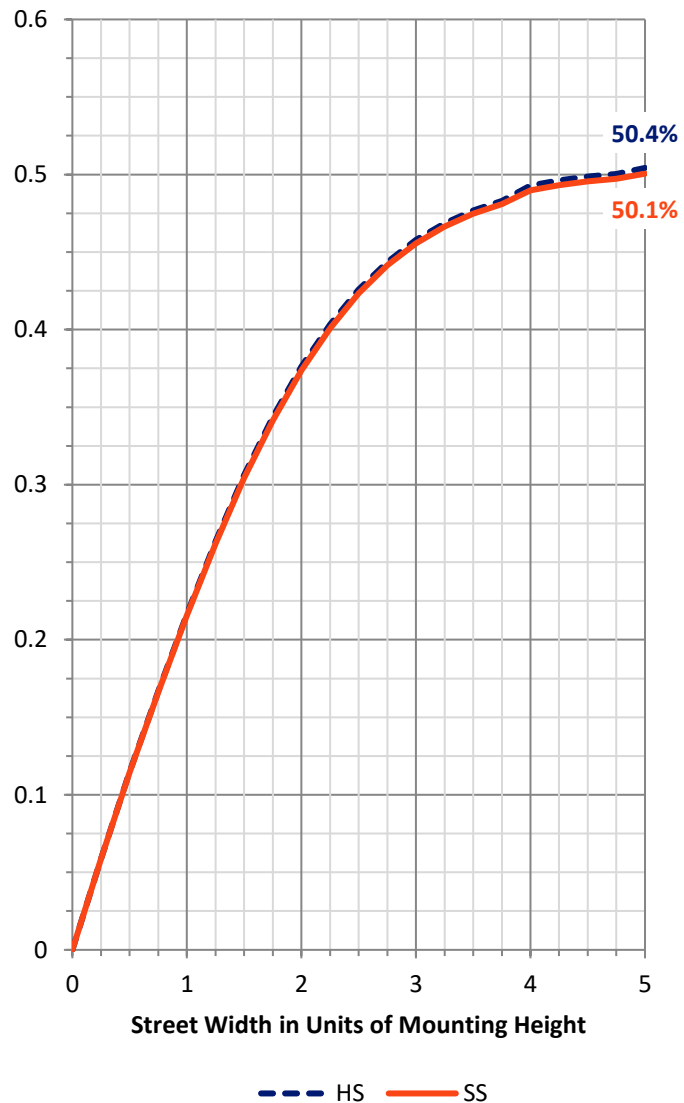
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21380.5	0.0	21380.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21380.5	0.0	21380.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	42761.0	0.0	42761.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.5	0.8
10°-20°	959.4	2.2
20°-30°	1635.8	3.8
30°-40°	2556.0	6.0
40°-50°	4331.9	10.1
50°-60°	7899.5	18.5
60°-70°	13599.6	31.8
70°-80°	10659.9	24.9
80°-90°	790.4	1.8
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°	42761.0	100.0
0°-180°	42761.0	100.0

Coefficient of Utilization



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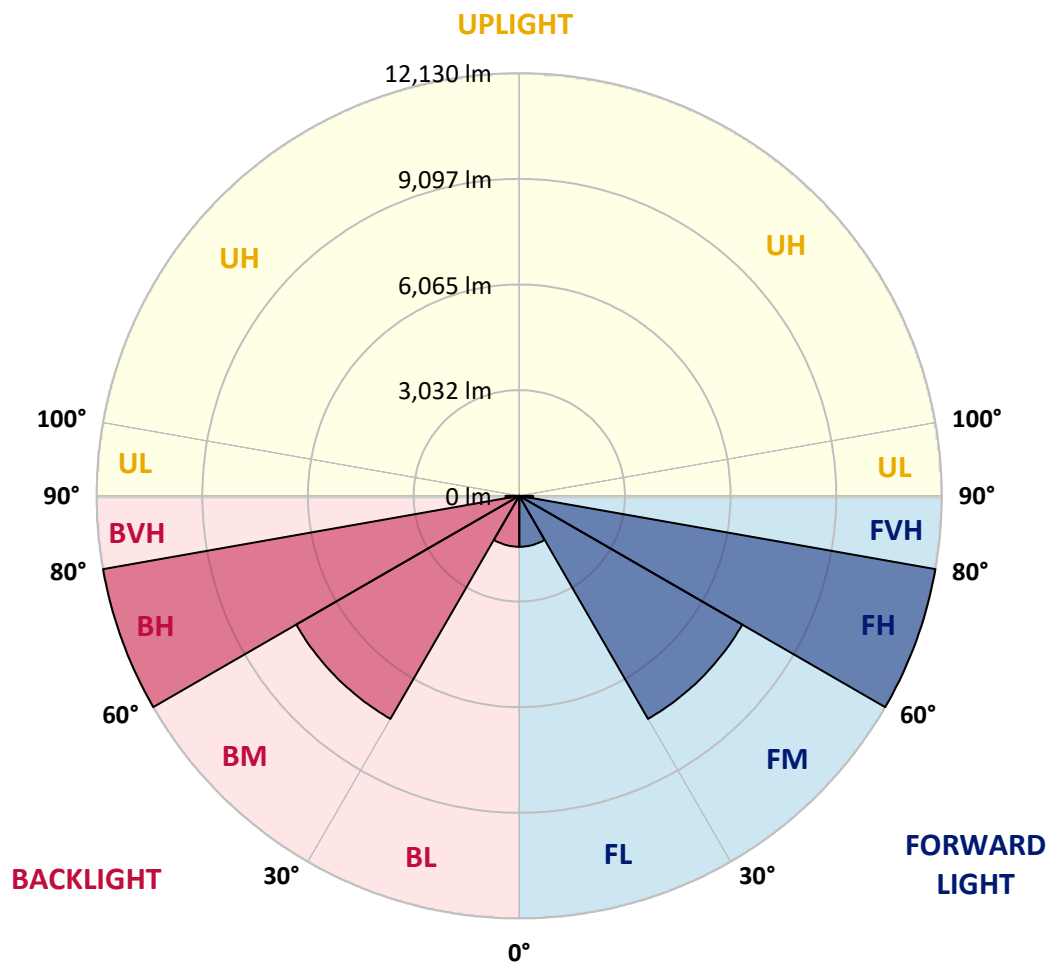
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1461.9	3.4			
FM	(30°-60°)	7393.7	17.3			
FH	(60°-80°)	12129.7	28.4			G5
FVH	(80°-90°)	395.2	0.9			G3/500
BL	(0°-30°)	1461.9	3.4	B3/2500		
BM	(30°-60°)	7393.7	17.3	B4/8500		
BH	(60°-80°)	12129.7	28.4	B5		G5
BVH	(80°-90°)	395.2	0.9			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°	3519.2	3519.2	3519.2	3519.2	3519.2	3519.2	3519.2	3519.2	3519.2	3519.2	3519.2
2.5°	3503.7	3507.9	3503.7	3506.5	3499.4	3502.3	3502.3	3502.3	3500.8	3502.3	3499.4
5°	3472.6	3475.4	3469.7	3472.6	3468.3	3472.6	3474.0	3472.6	3469.7	3471.1	3465.5
7.5°	3425.9	3428.7	3424.5	3428.7	3423.1	3430.1	3428.7	3424.5	3420.2	3420.2	3414.6
10°	3400.4	3401.8	3390.5	3386.3	3373.5	3376.4	3380.6	3384.9	3389.1	3397.6	3396.2
12.5°	3401.8	3401.8	3384.9	3366.5	3348.1	3352.3	3359.4	3375.0	3391.9	3407.5	3408.9
15°	3416.0	3414.6	3389.1	3359.4	3346.7	3359.4	3363.6	3373.5	3400.4	3427.3	3428.7
17.5°	3425.9	3425.9	3386.3	3352.3	3350.9	3370.7	3369.3	3373.5	3403.2	3442.9	3444.3
20°	3444.3	3444.3	3393.3	3356.6	3356.6	3377.8	3379.2	3386.3	3416.0	3459.8	3466.9
22.5°	3485.3	3486.7	3433.0	3403.2	3406.1	3418.8	3423.1	3434.4	3461.2	3509.3	3517.8
25°	3543.3	3546.1	3490.9	3474.0	3483.9	3507.9	3505.1	3513.6	3543.3	3590.0	3598.4
27.5°	3623.9	3616.8	3565.9	3558.8	3568.7	3585.7	3584.3	3585.7	3609.8	3652.2	3662.1
30°	3728.6	3725.8	3689.0	3693.2	3689.0	3683.3	3684.7	3696.0	3708.8	3742.7	3752.6
32.5°	3830.4	3833.3	3810.6	3831.8	3863.0	3884.2	3851.6	3820.5	3806.4	3824.8	3833.3
35°	4014.3	4021.4	3986.0	3971.9	4014.3	4076.5	3984.6	3933.7	3962.0	3986.0	3993.1
37.5°	4326.9	4331.1	4271.7	4215.2	4184.0	4243.5	4151.5	4155.8	4254.8	4300.0	4298.6
40°	4683.4	4684.8	4645.2	4595.7	4541.9	4556.1	4519.3	4530.6	4595.7	4636.7	4648.0
42.5°	5107.7	5103.5	5041.2	4970.5	4954.9	4969.1	4906.8	4898.4	4973.3	5046.9	5048.3
45°	5657.9	5648.0	5567.4	5489.6	5414.6	5383.5	5368.0	5409.0	5512.2	5580.1	5581.6
47.5°	6250.6	6223.7	6181.3	6119.1	6054.0	6022.9	5997.4	6017.2	6092.2	6119.1	6121.9
50°	6860.2	6865.9	6874.4	6850.3	6826.3	6816.4	6749.9	6711.7	6734.4	6684.9	6677.8
52.5°	7583.0	7594.4	7676.4	7745.7	7786.7	7808.0	7682.1	7550.5	7477.0	7380.8	7352.5
55°	8436.0	8454.4	8574.6	8767.0	8965.0	9069.7	8841.9	8595.8	8368.1	8188.4	8130.5
57.5°	9386.5	9419.0	9584.5	9953.7	10359.7	10607.2	10222.5	9775.5	9335.6	9076.7	9031.5
60°	10501.1	10532.2	10761.4	11290.4	11948.1	12320.2	11737.4	11006.1	10458.7	10211.2	10127.7
62.5°	11827.9	11830.7	12112.2	12730.4	13598.8	14116.6	13327.3	12349.9	11785.5	11487.0	11406.4
65°	13255.1	13262.2	13553.6	14221.2	15119.4	15682.4	14791.3	13772.8	13082.6	12642.7	12580.4
67.5°	14263.7	14293.4	14600.3	15403.7	16243.9	16751.7	15829.5	14678.1	13880.3	13355.6	13303.2
70°	14102.4	14218.4	14579.1	15516.9	16685.3	17409.5	15997.8	14570.6	13518.2	12898.7	12854.8
72.5°	12298.9	12521.0	13001.9	14232.5	16101.1	17098.3	15079.8	13050.0	11859.0	11331.4	11252.2
75°	8375.2	8735.9	9461.5	11236.7	13755.9	14804.0	12695.0	10404.9	9284.7	8554.8	8501.0
77.5°	3734.2	3816.3	4735.7	6779.6	9492.6	10631.3	9223.9	6806.5	5109.1	4075.1	3857.3
80°	1041.1	1053.8	1406.0	2524.9	4751.3	6246.4	5100.6	2652.2	1490.9	1051.0	990.1
82.5°	331.0	359.3	438.5	654.9	1597.0	2850.2	1639.4	707.2	503.6	401.7	362.1
85°	161.3	159.8	222.1	265.9	407.4	630.9	434.2	328.2	287.1	191.0	172.6
87.5°	67.9	69.3	103.3	93.4	118.8	101.8	140.0	147.1	154.2	84.9	73.6
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)