

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: P841954

Luminaire Tested: **ARCH4-250-730-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-250-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36120 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G4

Input Watts (W): 249.5
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

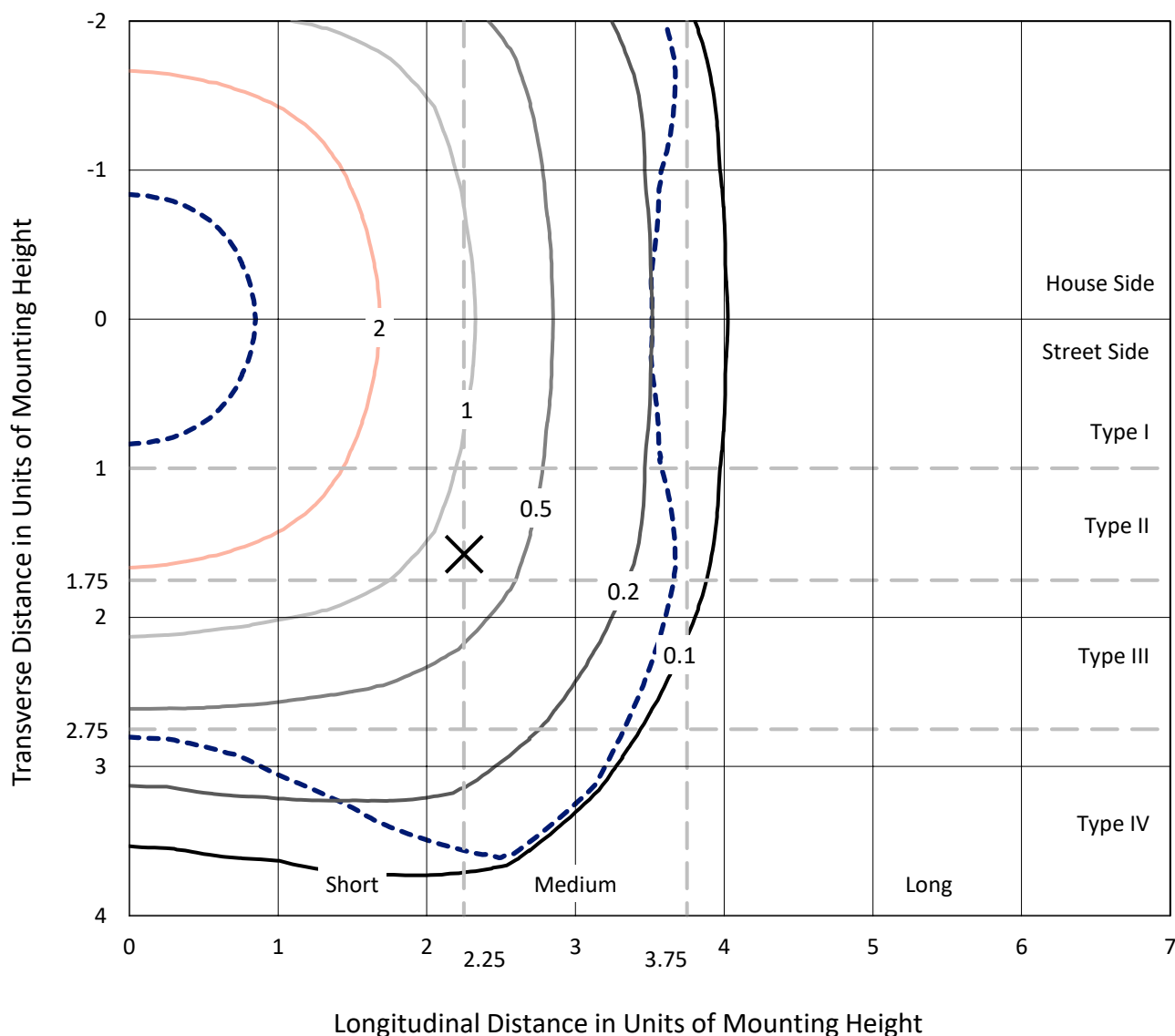


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Iso-Footcandle Lines of Horizontal Illumination

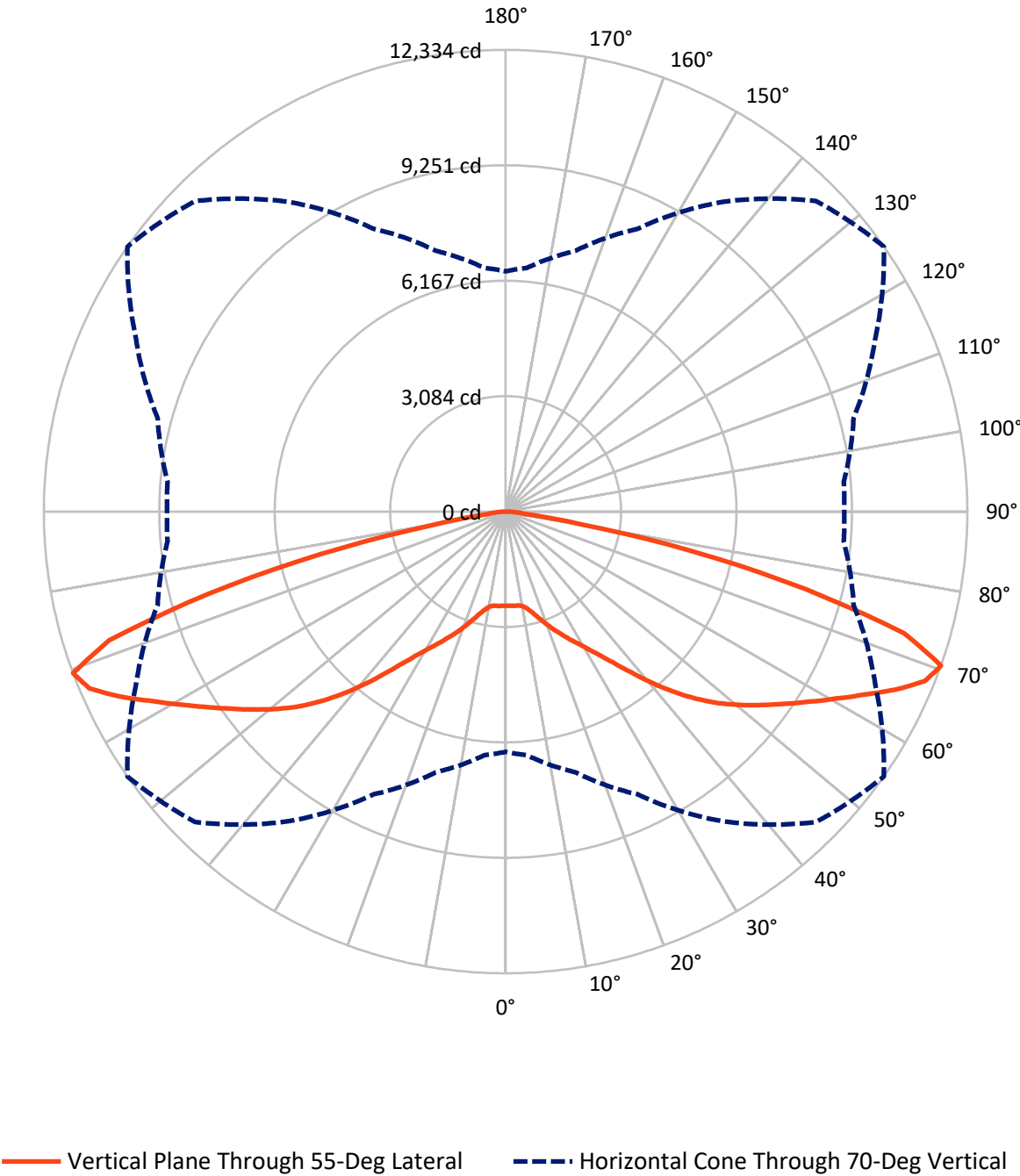
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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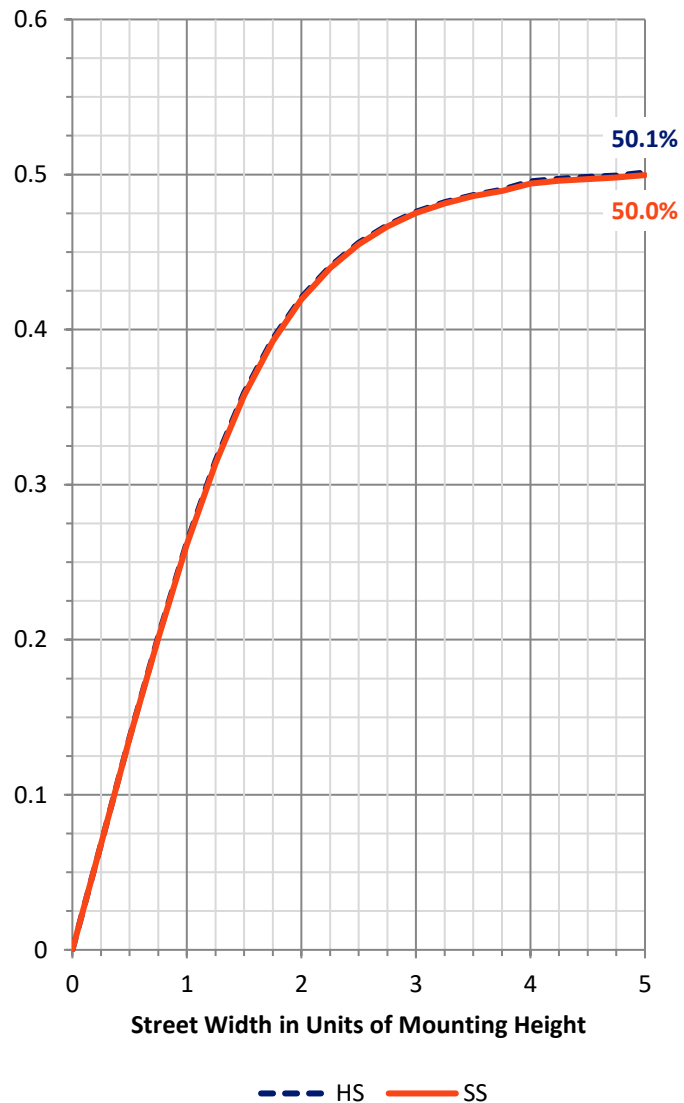
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18060.0	0.0	18060.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18060.0	0.0	18060.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36120.0	0.0	36120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.1	0.7
10°-20°	827.3	2.3
20°-30°	1719.0	4.8
30°-40°	3174.9	8.8
40°-50°	5577.6	15.4
50°-60°	8044.2	22.3
60°-70°	9845.3	27.3
70°-80°	6264.8	17.3
80°-90°	423.9	1.2
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°	36120.0	100.0
0°-180°	36120.0	100.0

Coefficient of Utilization



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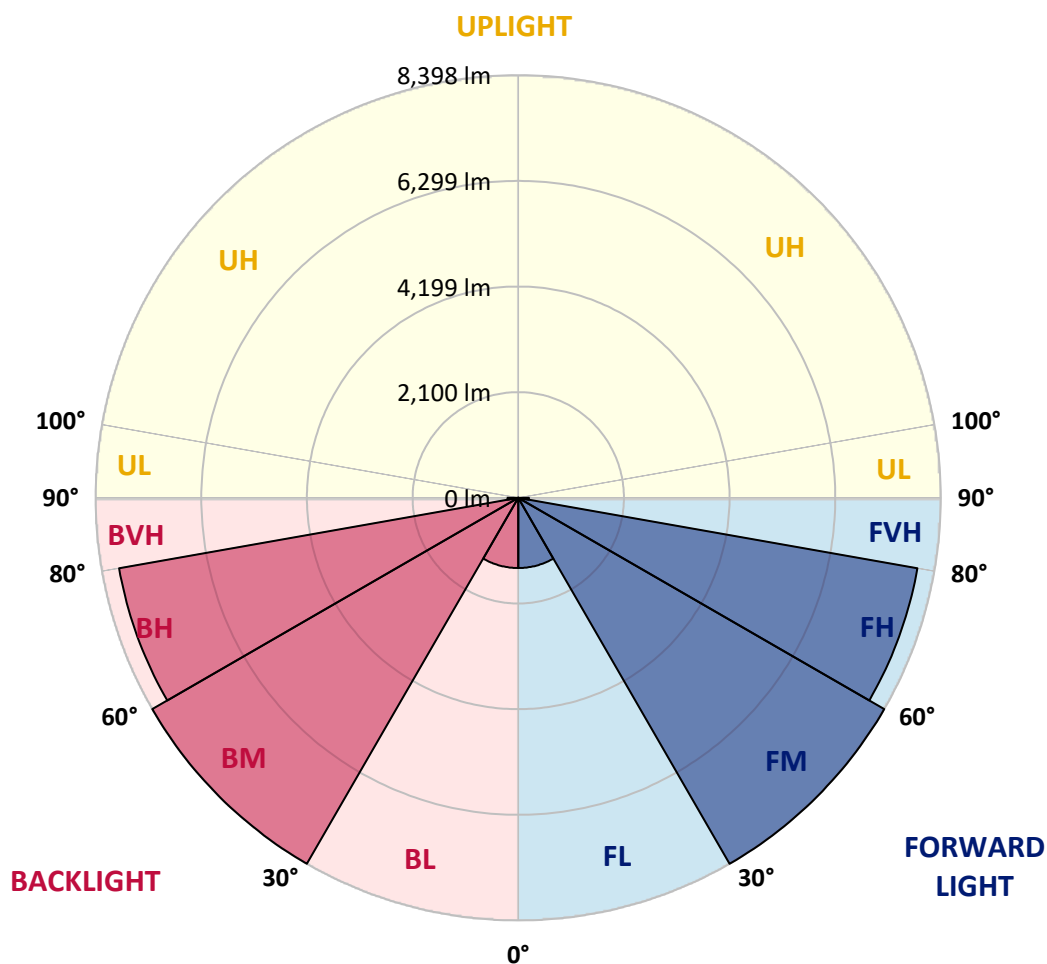
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1394.7	3.9			
FM	(30°-60°)	8398.4	23.3			
FH	(60°-80°)	8055.0	22.3			G4/12000
FVH	(80°-90°)	211.9	0.6			G2/225
BL	(0°-30°)	1394.7	3.9	B3/2500		
BM	(30°-60°)	8398.4	23.3	B4/8500		
BH	(60°-80°)	8055.0	22.3	B5		G4/12000
BVH	(80°-90°)	211.9	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2517.9	2517.9	2517.9	2517.9	2517.9	2517.9	2517.9	2517.9	2517.9	2517.9	2517.9
2.5°	2551.5	2551.5	2544.8	2544.8	2531.3	2524.6	2517.9	2517.9	2511.2	2511.2	2504.5
5°	2564.9	2564.9	2564.9	2558.2	2551.5	2544.8	2531.3	2517.9	2511.2	2504.5	2497.8
7.5°	2571.6	2571.6	2564.9	2564.9	2558.2	2551.5	2531.3	2511.2	2504.5	2497.8	2497.8
10°	2625.3	2618.6	2611.9	2598.5	2598.5	2598.5	2571.6	2551.5	2544.8	2544.8	2544.8
12.5°	2752.9	2746.2	2732.8	2712.6	2712.6	2719.3	2679.1	2652.2	2652.2	2645.5	2645.5
15°	2940.9	2934.2	2920.8	2887.2	2880.5	2893.9	2833.5	2806.6	2806.6	2806.6	2799.9
17.5°	3149.1	3135.6	3115.5	3088.6	3088.6	3088.6	3028.2	2994.6	2974.5	2974.5	2967.8
20°	3323.6	3316.9	3316.9	3310.2	3330.3	3330.3	3249.8	3196.1	3149.1	3122.2	3115.5
22.5°	3478.1	3471.4	3484.8	3511.6	3551.9	3565.4	3471.4	3390.8	3316.9	3263.2	3249.8
25°	3686.2	3679.5	3672.8	3713.1	3780.2	3800.4	3699.6	3598.9	3525.1	3498.2	3484.8
27.5°	3907.8	3914.5	3921.2	3961.5	4015.2	4048.8	3948.1	3854.1	3793.6	3753.4	3739.9
30°	4156.2	4169.7	4189.8	4250.2	4290.5	4303.9	4216.7	4149.5	4095.8	4062.2	4042.1
32.5°	4471.8	4498.7	4525.5	4579.2	4599.4	4585.9	4545.7	4498.7	4458.4	4411.4	4404.7
35°	4941.8	4968.7	4962.0	4982.1	4988.8	4975.4	4955.2	4928.4	4908.2	4847.8	4841.1
37.5°	5532.7	5559.5	5519.2	5499.1	5452.1	5458.8	5452.1	5472.2	5479.0	5418.5	5411.8
40°	6130.3	6157.1	6103.4	6049.7	6002.7	5982.5	6016.1	6083.3	6083.3	6043.0	6043.0
42.5°	6768.1	6788.3	6701.0	6633.8	6573.4	6560.0	6580.1	6660.7	6680.8	6674.1	6674.1
45°	7406.0	7392.6	7278.4	7211.3	7157.6	7124.0	7130.7	7191.1	7231.4	7251.6	7251.6
47.5°	7896.1	7876.0	7782.0	7728.3	7694.7	7647.7	7647.7	7681.3	7701.4	7708.1	7708.1
50°	8285.6	8265.4	8171.4	8164.7	8164.7	8144.6	8124.4	8117.7	8104.3	8111.0	8111.0
52.5°	8621.3	8594.4	8527.3	8540.7	8601.2	8614.6	8587.7	8534.0	8480.3	8460.2	8466.9
55°	8983.9	8943.6	8889.9	8930.2	9051.0	9104.7	9064.5	8957.0	8863.0	8802.6	8802.6
57.5°	9272.6	9225.6	9225.6	9339.7	9561.3	9668.8	9581.5	9380.0	9218.9	9151.7	9158.5
60°	9071.2	9030.9	9192.0	9695.6	10111.9	10293.2	10145.5	9789.6	9527.8	9447.2	9460.6
62.5°	8675.0	8648.2	8849.6	9628.5	10608.8	10984.8	10763.2	10252.9	9863.5	9769.5	9769.5
65°	8090.9	8084.2	8366.2	9326.3	10722.9	11649.5	11461.5	10756.5	10252.9	10125.3	10152.2
67.5°	7486.6	7486.6	7741.7	8809.3	10588.6	11931.5	12079.2	11213.1	10440.9	10125.3	10132.0
70°	6419.0	6533.1	7211.3	8332.6	10098.5	11730.1	12334.4	10890.8	9621.8	9064.5	9044.3
72.5°	4230.1	4377.8	5727.4	7500.0	9615.0	10998.2	11132.5	9568.0	7990.2	7338.9	7305.3
75°	2551.5	2679.1	3713.1	5855.0	8453.4	8856.3	8265.4	7500.0	5969.1	5458.8	5458.8
77.5°	752.0	839.3	1712.2	3713.1	5848.3	5821.4	5096.2	4418.1	3531.8	3001.3	3041.6
80°	443.2	456.6	557.3	1692.0	2423.9	2551.5	1967.3	1228.7	1228.7	913.2	886.3
82.5°	342.4	342.4	355.9	423.0	584.2	651.3	496.9	423.0	483.4	409.6	389.4
85°	241.7	241.7	241.7	248.4	255.1	261.9	275.3	282.0	308.9	255.1	241.7
87.5°	73.9	80.6	87.3	100.7	120.9	127.6	134.3	120.9	120.9	114.1	107.4
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)