

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: P841864

Luminaire Tested: **ARCH4-240-722-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841864
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: ARCH4-240-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30713 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G3

Input Watts (W): 240.2
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

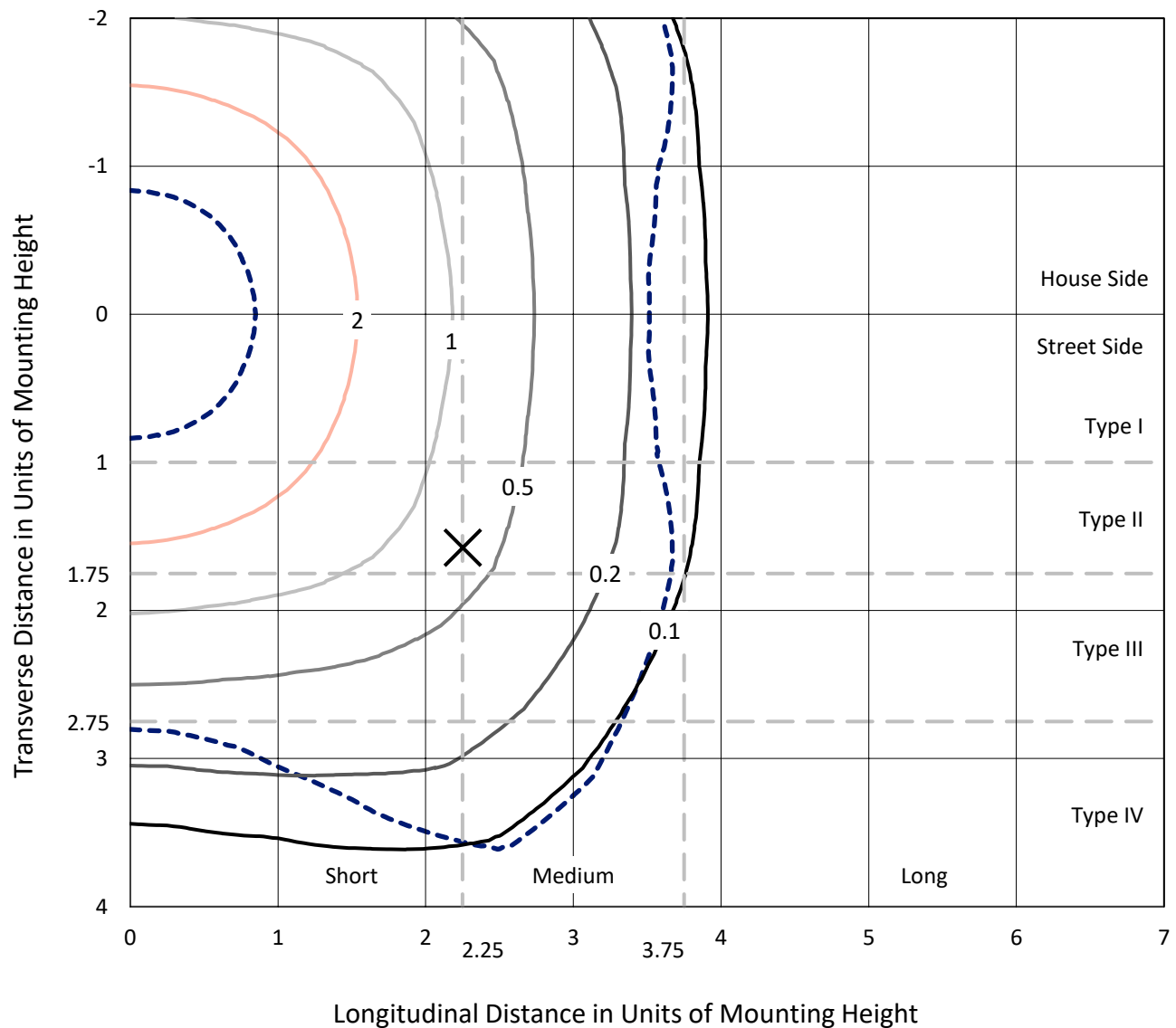


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Iso-Footcandle Lines of Horizontal Illumination

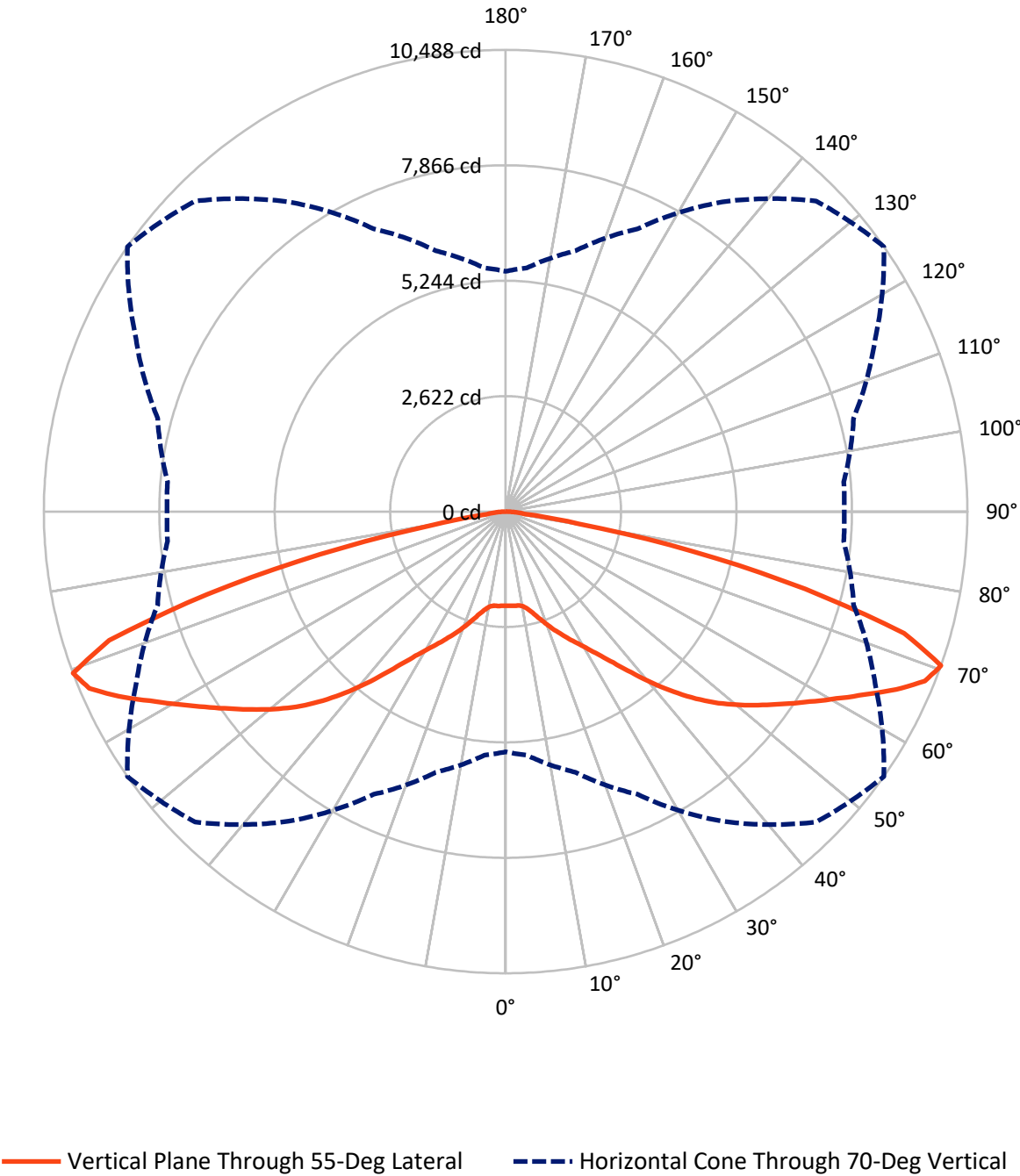
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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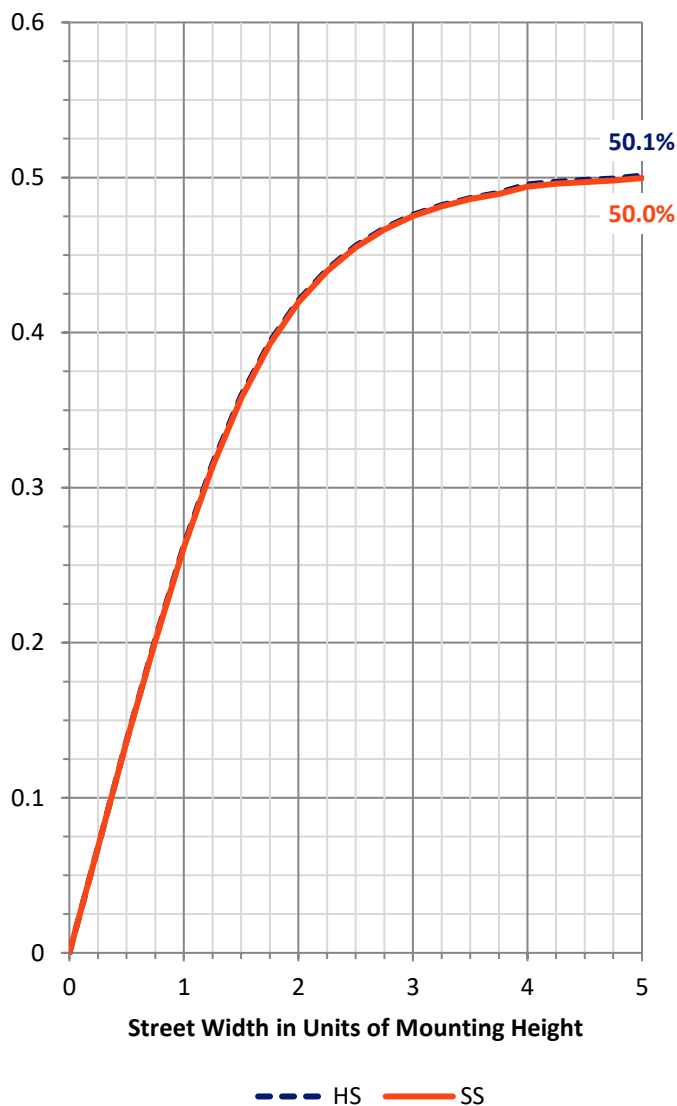
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15356.5	0.0	15356.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15356.5	0.0	15356.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30713.0	0.0	30713.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	0.7
10°-20°	703.5	2.3
20°-30°	1461.7	4.8
30°-40°	2699.6	8.8
40°-50°	4742.7	15.4
50°-60°	6840.0	22.3
60°-70°	8371.5	27.3
70°-80°	5326.9	17.3
80°-90°	360.4	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°	30713.0	100.0
0°-180°	30713.0	100.0

Coefficient of Utilization



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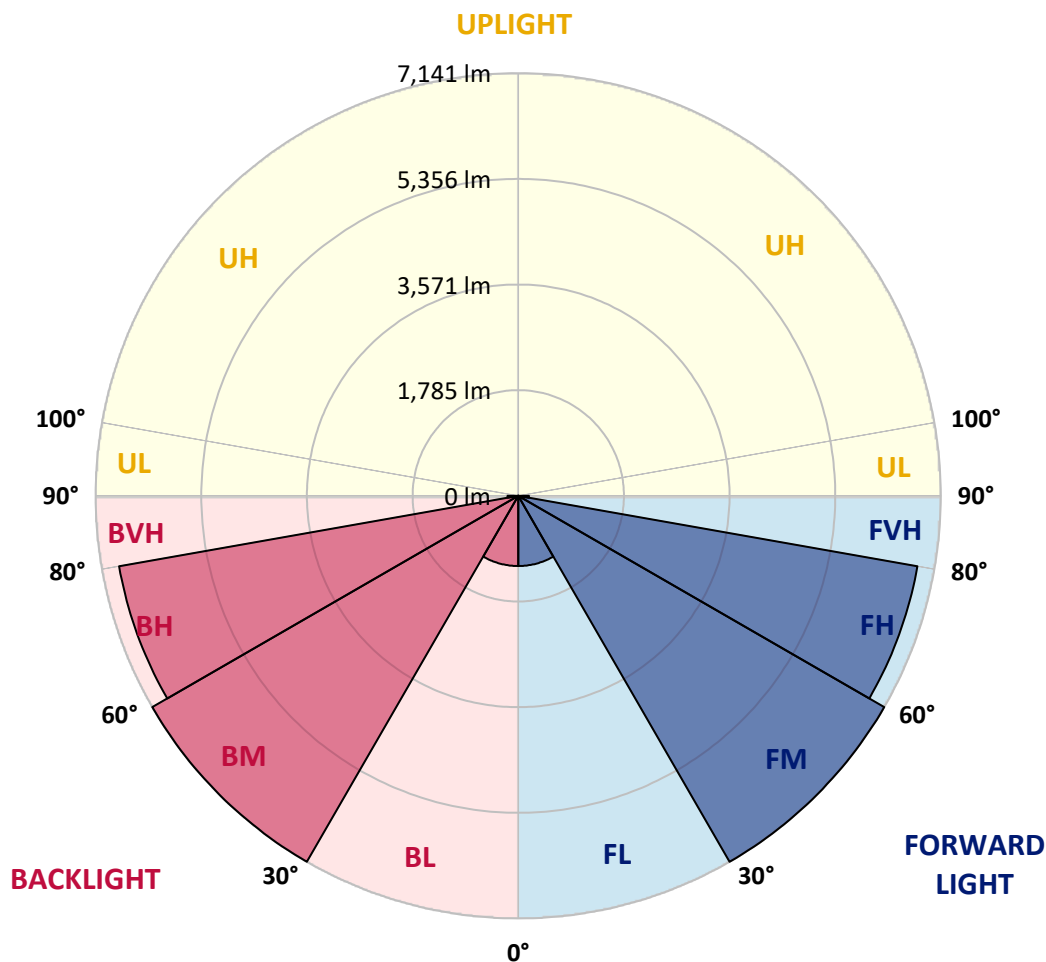
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1185.9	3.9			
FM	(30°-60°)	7141.2	23.3			
FH	(60°-80°)	6849.2	22.3			G3/7500
FVH	(80°-90°)	180.2	0.6			G2/225
BL	(0°-30°)	1185.9	3.9	B3/2500		
BM	(30°-60°)	7141.2	23.3	B4/8500		
BH	(60°-80°)	6849.2	22.3	B5		G3/7500
BVH	(80°-90°)	180.2	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-G3

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2141.0	2141.0	2141.0	2141.0	2141.0	2141.0	2141.0	2141.0	2141.0	2141.0	2141.0
2.5°	2169.5	2169.5	2163.8	2163.8	2152.4	2146.7	2141.0	2141.0	2135.3	2135.3	2129.6
5°	2181.0	2181.0	2181.0	2175.2	2169.5	2163.8	2152.4	2141.0	2135.3	2129.6	2123.9
7.5°	2186.7	2186.7	2181.0	2181.0	2175.2	2169.5	2152.4	2135.3	2129.6	2123.9	2123.9
10°	2232.3	2226.6	2220.9	2209.5	2209.5	2209.5	2186.7	2169.5	2163.8	2163.8	2163.8
12.5°	2340.8	2335.1	2323.7	2306.6	2306.6	2312.3	2278.0	2255.2	2255.2	2249.5	2249.5
15°	2500.7	2495.0	2483.5	2455.0	2449.3	2460.7	2409.3	2386.5	2386.5	2386.5	2380.8
17.5°	2677.7	2666.2	2649.1	2626.3	2626.3	2626.3	2574.9	2546.3	2529.2	2529.2	2523.5
20°	2826.1	2820.4	2820.4	2814.7	2831.8	2831.8	2763.3	2717.6	2677.7	2654.8	2649.1
22.5°	2957.4	2951.7	2963.1	2986.0	3020.2	3031.6	2951.7	2883.2	2820.4	2774.7	2763.3
25°	3134.4	3128.7	3123.0	3157.2	3214.3	3231.5	3145.8	3060.2	2997.4	2974.5	2963.1
27.5°	3322.8	3328.5	3334.2	3368.5	3414.2	3442.7	3357.1	3277.1	3225.8	3191.5	3180.1
30°	3534.1	3545.5	3562.6	3614.0	3648.2	3659.7	3585.4	3528.3	3482.7	3454.1	3437.0
32.5°	3802.4	3825.2	3848.1	3893.7	3910.9	3899.4	3865.2	3825.2	3791.0	3751.0	3745.3
35°	4202.0	4224.9	4219.2	4236.3	4242.0	4230.6	4213.5	4190.6	4173.5	4122.1	4116.4
37.5°	4704.5	4727.3	4693.0	4675.9	4635.9	4641.7	4635.9	4653.1	4658.8	4607.4	4601.7
40°	5212.6	5235.4	5189.7	5144.1	5104.1	5087.0	5115.5	5172.6	5172.6	5138.4	5138.4
42.5°	5755.0	5772.1	5697.9	5640.8	5589.4	5578.0	5595.1	5663.6	5680.7	5675.0	5675.0
45°	6297.4	6285.9	6188.9	6131.8	6086.1	6057.6	6063.3	6114.7	6148.9	6166.0	6166.0
47.5°	6714.1	6697.0	6617.1	6571.4	6542.9	6502.9	6502.9	6531.4	6548.6	6554.3	6554.3
50°	7045.3	7028.1	6948.2	6942.5	6942.5	6925.4	6908.2	6902.5	6891.1	6896.8	6896.8
52.5°	7330.7	7307.9	7250.8	7262.2	7313.6	7325.0	7302.2	7256.5	7210.8	7193.7	7199.4
55°	7639.0	7604.8	7559.1	7593.4	7696.1	7741.8	7707.5	7616.2	7536.3	7484.9	7484.9
57.5°	7884.5	7844.6	7844.6	7941.6	8130.0	8221.4	8147.2	7975.9	7838.9	7781.8	7787.5
60°	7713.3	7679.0	7816.0	8244.2	8598.2	8752.4	8626.7	8324.2	8101.5	8033.0	8044.4
62.5°	7376.4	7353.6	7524.9	8187.1	9020.7	9340.4	9152.0	8718.1	8387.0	8307.0	8307.0
65°	6879.7	6874.0	7113.8	7930.2	9117.7	9905.6	9745.8	9146.3	8718.1	8609.6	8632.5
67.5°	6365.9	6365.9	6582.8	7490.6	9003.6	10145.4	10271.0	9534.5	8878.0	8609.6	8615.3
70°	5458.1	5555.1	6131.8	7085.2	8586.8	9974.1	10488.0	9260.5	8181.4	7707.5	7690.4
72.5°	3596.9	3722.5	4870.0	6377.3	8175.7	9351.8	9466.0	8135.7	6794.1	6240.3	6211.7
75°	2169.5	2278.0	3157.2	4978.5	7188.0	7530.6	7028.1	6377.3	5075.6	4641.7	4641.7
77.5°	639.4	713.7	1455.9	3157.2	4972.8	4950.0	4333.4	3756.7	3003.1	2552.1	2586.3
80°	376.8	388.2	473.9	1438.7	2061.1	2169.5	1672.8	1044.8	1044.8	776.5	753.6
82.5°	291.2	291.2	302.6	359.7	496.7	553.8	422.5	359.7	411.1	348.3	331.1
85°	205.5	205.5	205.5	211.2	217.0	222.7	234.1	239.8	262.6	217.0	205.5
87.5°	62.8	68.5	74.2	85.6	102.8	108.5	114.2	102.8	102.8	97.1	91.3
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)