

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: P841801

Luminaire Tested: **ARCH4-230-727-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841801
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: ARCH4-230-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32858 lumens
Efficiency: N/A
Efficacy: 142.1 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

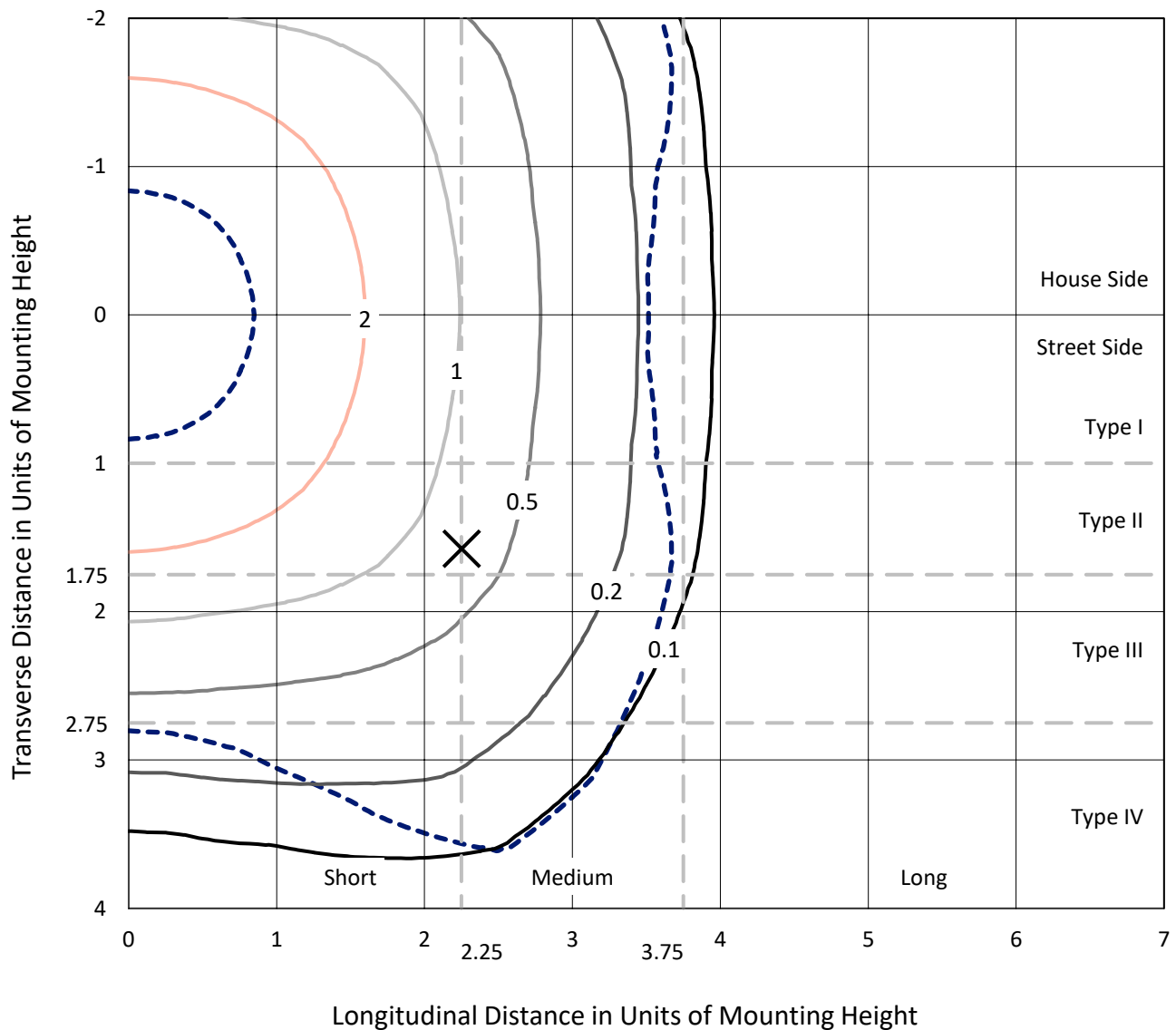
Input Watts (W): 231.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

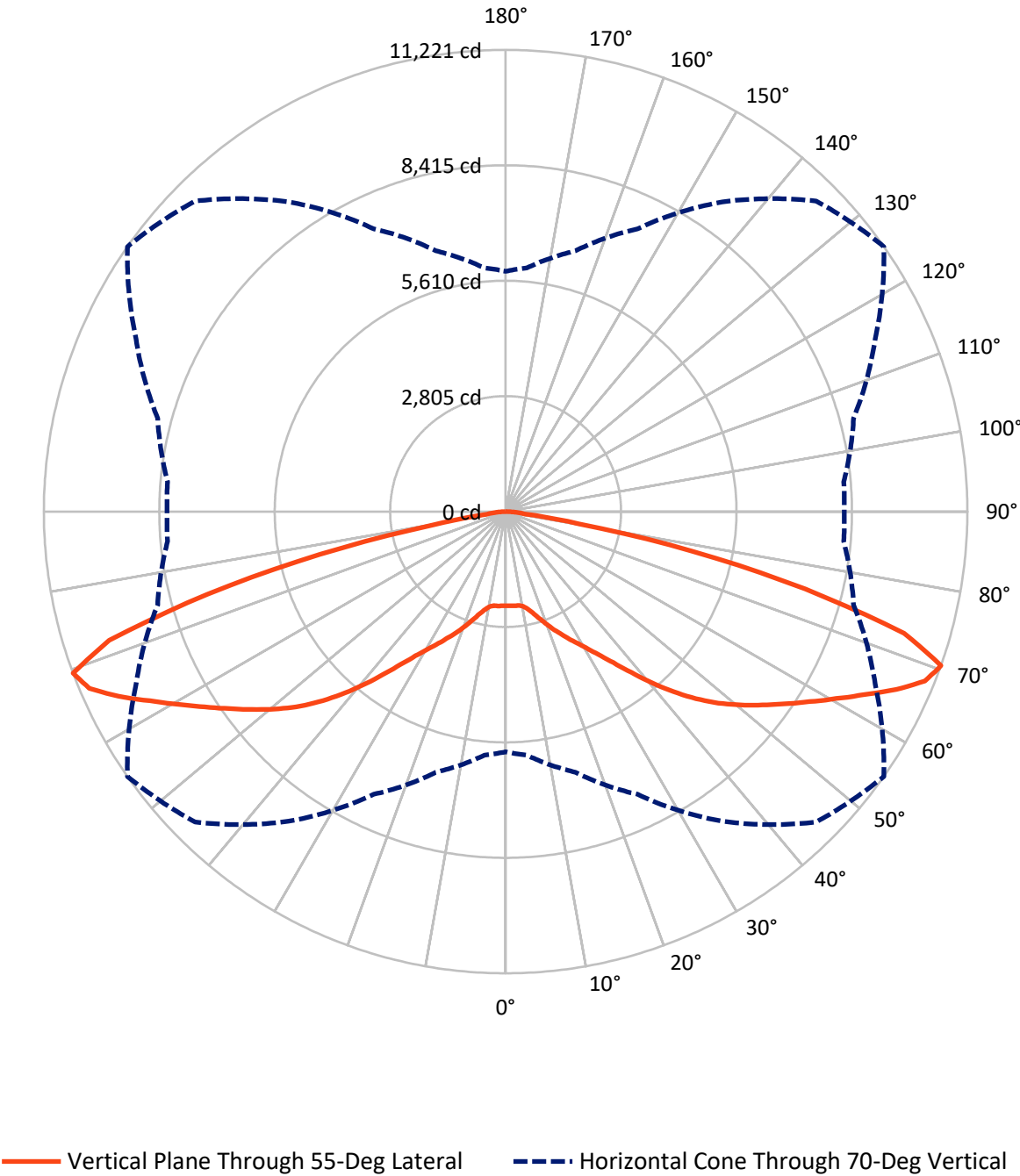
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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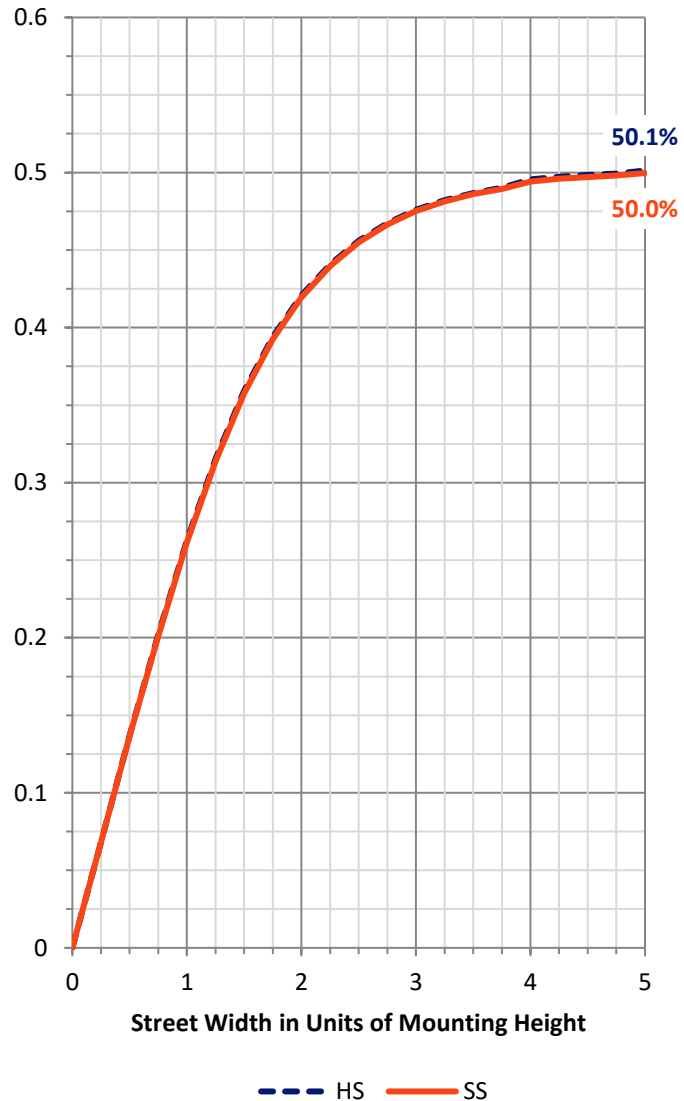
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16429.0	0.0	16429.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16429.0	0.0	16429.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32858.0	0.0	32858.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.1	0.7
10°-20°	752.6	2.3
20°-30°	1563.8	4.8
30°-40°	2888.2	8.8
40°-50°	5073.9	15.4
50°-60°	7317.7	22.3
60°-70°	8956.1	27.3
70°-80°	5699.0	17.3
80°-90°	385.6	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°	32858.0	100.0
0°-180°	32858.0	100.0

Coefficient of Utilization



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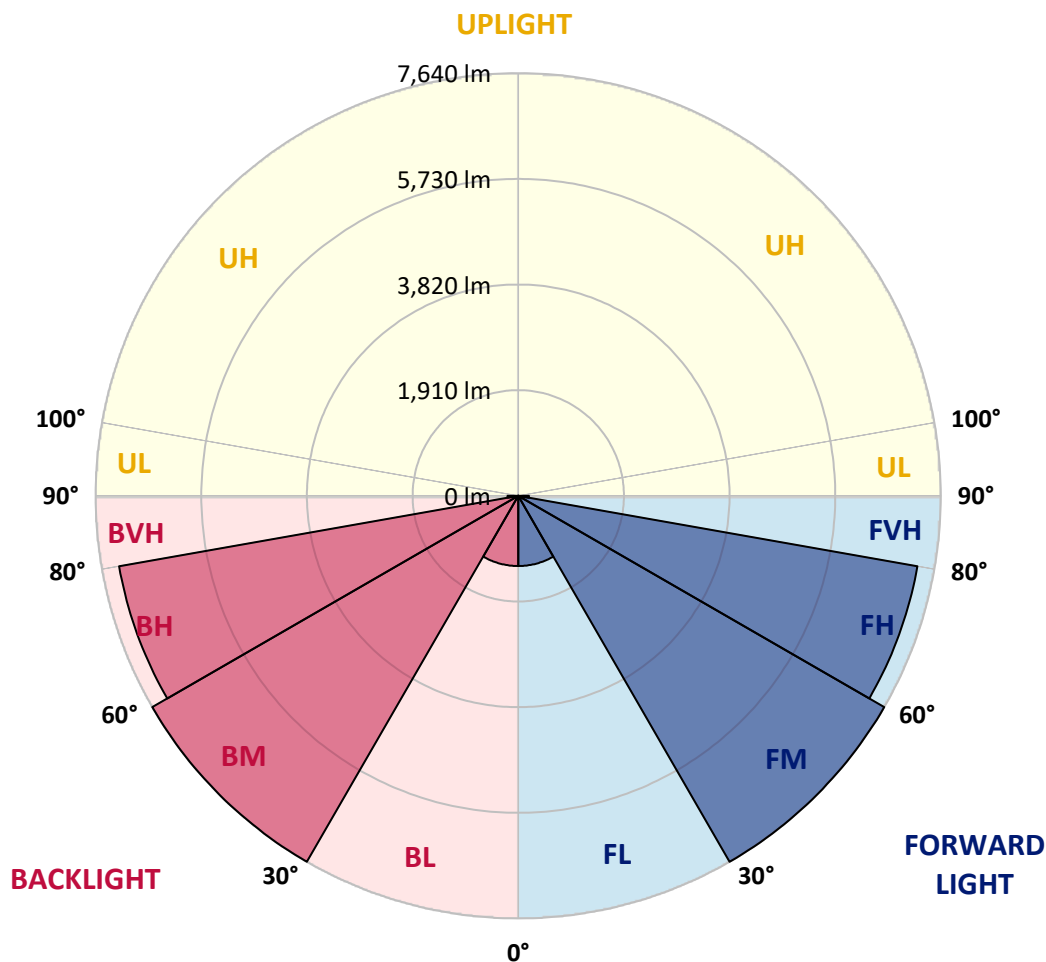
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1268.7	3.9			
FM	(30°-60°)	7639.9	23.3			
FH	(60°-80°)	7327.6	22.3			G3/7500
FVH	(80°-90°)	192.8	0.6			G2/225
BL	(0°-30°)	1268.7	3.9	B3/2500		
BM	(30°-60°)	7639.9	23.3	B4/8500		
BH	(60°-80°)	7327.6	22.3	B5		G3/7500
BVH	(80°-90°)	192.8	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°	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5
2.5°	2321.1	2321.1	2314.9	2314.9	2302.7	2296.6	2290.5	2290.5	2284.4	2284.4	2278.3
5°	2333.3	2333.3	2333.3	2327.2	2321.1	2314.9	2302.7	2290.5	2284.4	2278.3	2272.2
7.5°	2339.4	2339.4	2333.3	2333.3	2327.2	2321.1	2302.7	2284.4	2278.3	2272.2	2272.2
10°	2388.2	2382.1	2376.0	2363.8	2363.8	2363.8	2339.4	2321.1	2314.9	2314.9	2314.9
12.5°	2504.3	2498.2	2486.0	2467.6	2467.6	2473.8	2437.1	2412.7	2412.7	2406.6	2406.6
15°	2675.3	2669.2	2657.0	2626.5	2620.3	2632.6	2577.6	2553.2	2553.2	2553.2	2547.0
17.5°	2864.7	2852.5	2834.1	2809.7	2809.7	2809.7	2754.7	2724.2	2705.9	2705.9	2699.8
20°	3023.5	3017.4	3017.4	3011.3	3029.6	3029.6	2956.3	2907.4	2864.7	2840.2	2834.1
22.5°	3164.0	3157.9	3170.1	3194.5	3231.1	3243.4	3157.9	3084.6	3017.4	2968.5	2956.3
25°	3353.3	3347.2	3341.1	3377.7	3438.8	3457.1	3365.5	3273.9	3206.7	3182.3	3170.1
27.5°	3554.9	3561.0	3567.1	3603.7	3652.6	3683.1	3591.5	3506.0	3451.0	3414.4	3402.2
30°	3780.9	3793.1	3811.4	3866.4	3903.0	3915.2	3835.8	3774.8	3725.9	3695.4	3677.0
32.5°	4068.0	4092.4	4116.8	4165.7	4184.0	4171.8	4135.1	4092.4	4055.7	4013.0	4006.9
35°	4495.5	4519.9	4513.8	4532.2	4538.3	4526.1	4507.7	4483.3	4465.0	4410.0	4403.9
37.5°	5033.0	5057.5	5020.8	5002.5	4959.7	4965.8	4959.7	4978.0	4984.2	4929.2	4923.1
40°	5576.6	5601.1	5552.2	5503.3	5460.6	5442.3	5472.8	5533.9	5533.9	5497.2	5497.2
42.5°	6156.9	6175.2	6095.8	6034.7	5979.8	5967.5	5985.9	6059.2	6077.5	6071.4	6071.4
45°	6737.2	6724.9	6621.1	6560.0	6511.2	6480.6	6486.7	6541.7	6578.4	6596.7	6596.7
47.5°	7183.0	7164.7	7079.2	7030.3	6999.8	6957.1	6957.1	6987.6	7005.9	7012.0	7012.0
50°	7537.3	7519.0	7433.5	7427.4	7427.4	7409.0	7390.7	7384.6	7372.4	7378.5	7378.5
52.5°	7842.7	7818.3	7757.2	7769.4	7824.4	7836.6	7812.2	7763.3	7714.4	7696.1	7702.2
55°	8172.5	8135.9	8087.0	8123.7	8233.6	8282.5	8245.8	8148.1	8062.6	8007.6	8007.6
57.5°	8435.2	8392.4	8392.4	8496.3	8697.8	8795.6	8716.2	8532.9	8386.3	8325.2	8331.4
60°	8252.0	8215.3	8361.9	8820.0	9198.7	9363.6	9229.2	8905.5	8667.3	8594.0	8606.2
62.5°	7891.6	7867.1	8050.4	8758.9	9650.7	9992.7	9791.2	9327.0	8972.7	8887.2	8887.2
65°	7360.2	7354.1	7610.6	8484.1	9754.5	10597.4	10426.4	9785.1	9327.0	9210.9	9235.3
67.5°	6810.5	6810.5	7042.6	8013.7	9632.4	10854.0	10988.4	10200.4	9498.0	9210.9	9217.0
70°	5839.3	5943.1	6560.0	7580.1	9186.5	10670.7	11220.5	9907.2	8752.8	8245.8	8227.5
72.5°	3848.1	3982.4	5210.2	6822.7	8746.7	10005.0	10127.1	8703.9	7268.6	6676.1	6645.5
75°	2321.1	2437.1	3377.7	5326.2	7690.0	8056.5	7519.0	6822.7	5430.0	4965.8	4965.8
77.5°	684.1	763.5	1557.5	3377.7	5320.1	5295.7	4636.0	4019.1	3212.8	2730.3	2766.9
80°	403.1	415.3	507.0	1539.2	2205.0	2321.1	1789.7	1117.8	1117.8	830.7	806.3
82.5°	311.5	311.5	323.7	384.8	531.4	592.5	452.0	384.8	439.8	372.6	354.3
85°	219.9	219.9	219.9	226.0	232.1	238.2	250.4	256.5	281.0	232.1	219.9
87.5°	67.2	73.3	79.4	91.6	109.9	116.1	122.2	109.9	109.9	103.8	97.7
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)