

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: P836206

Luminaire Tested: **ARCH3-150-750-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-150-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22022 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 150.7
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

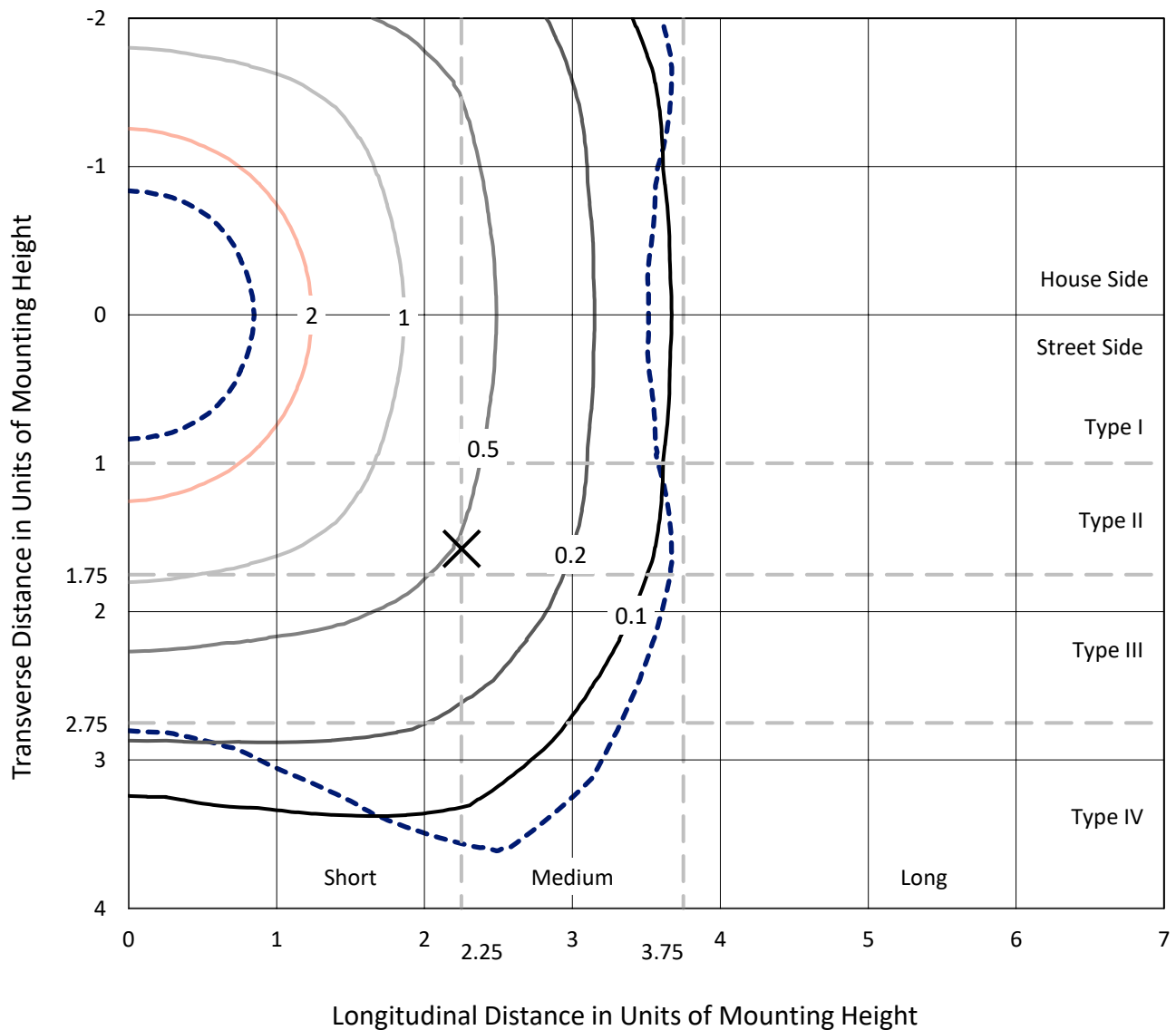


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Iso-Footcandle Lines of Horizontal Illumination

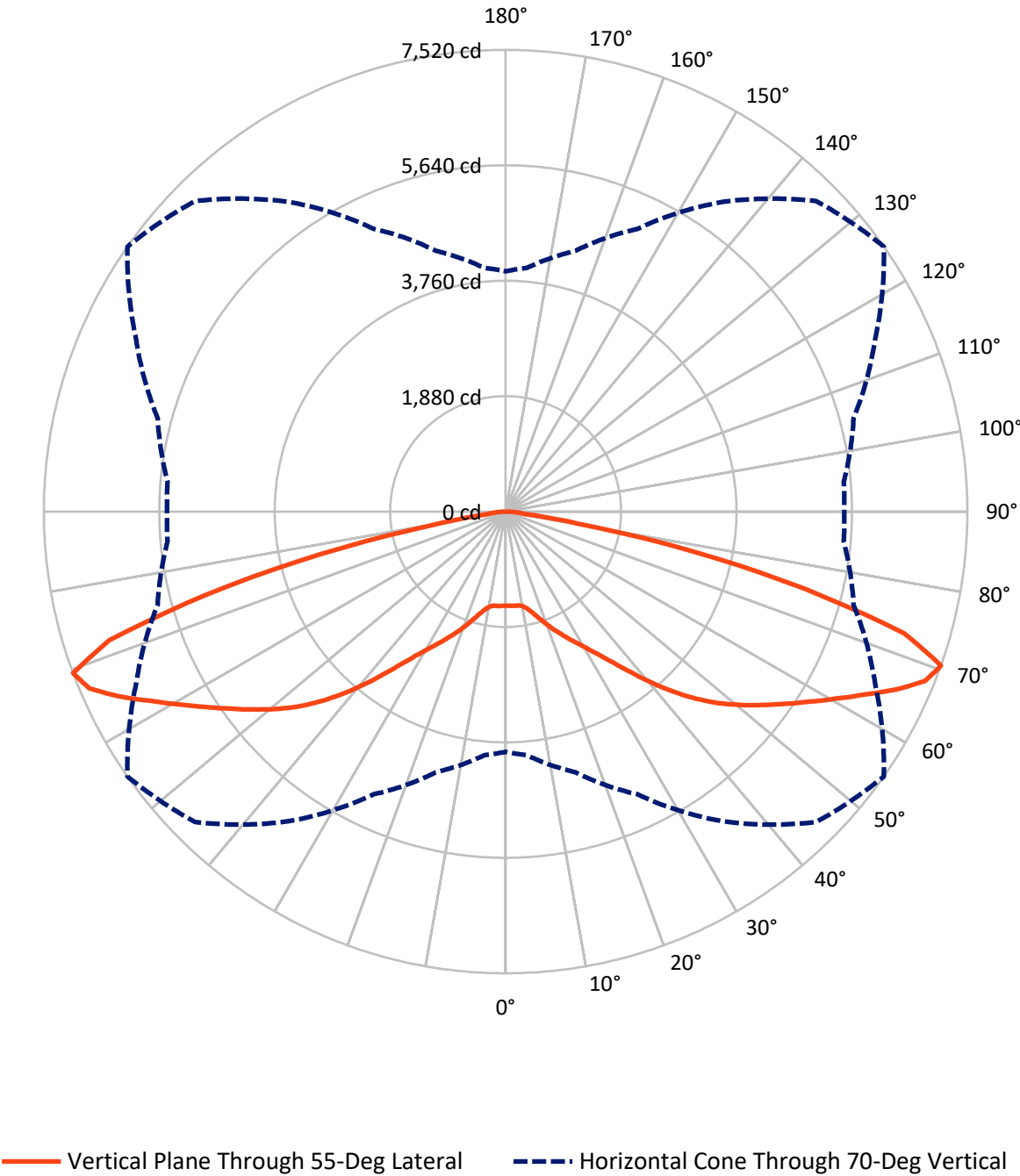
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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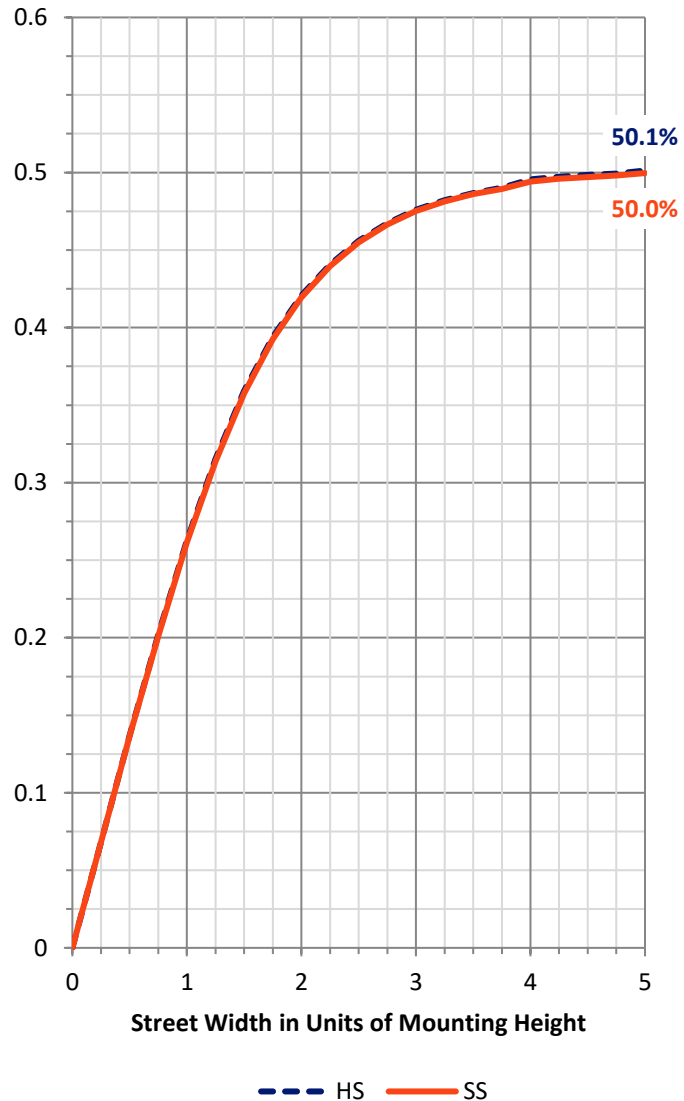
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11011.0	0.0	11011.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11011.0	0.0	11011.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22022.0	0.0	22022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	0.7
10°-20°	504.4	2.3
20°-30°	1048.1	4.8
30°-40°	1935.7	8.8
40°-50°	3400.6	15.4
50°-60°	4904.5	22.3
60°-70°	6002.5	27.3
70°-80°	3819.6	17.3
80°-90°	258.4	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°	22022.0	100.0
0°-180°	22022.0	100.0

Coefficient of Utilization



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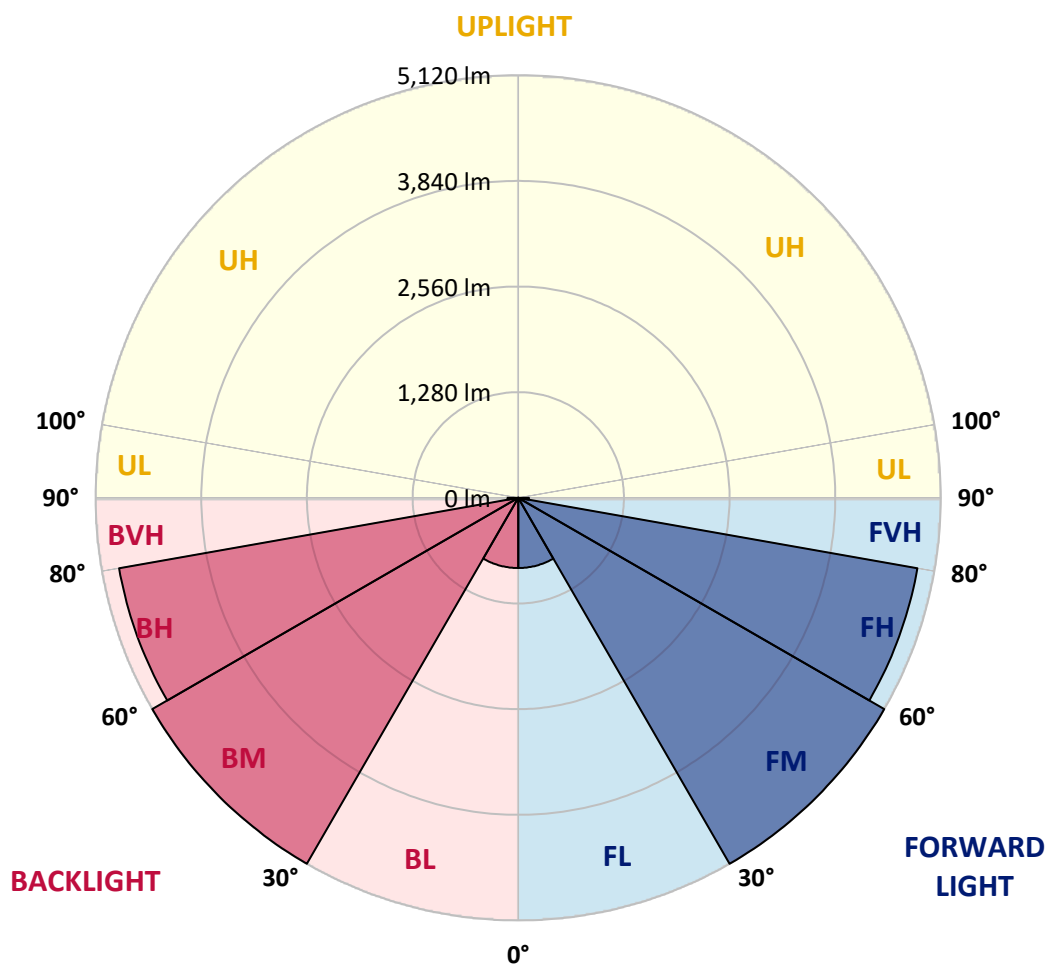
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	850.3	3.9			
FM	(30°-60°)	5120.4	23.3			
FH	(60°-80°)	4911.1	22.3			G2/5000
FVH	(80°-90°)	129.2	0.6			G2/225
BL	(0°-30°)	850.3	3.9	B2/1000		
BM	(30°-60°)	5120.4	23.3	B4/8500		
BH	(60°-80°)	4911.1	22.3	B4/5000		G2/5000
BVH	(80°-90°)	129.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1535.1	1535.1	1535.1	1535.1	1535.1	1535.1	1535.1	1535.1	1535.1	1535.1	1535.1
2.5°	1555.6	1555.6	1551.5	1551.5	1543.3	1539.2	1535.1	1535.1	1531.0	1531.0	1527.0
5°	1563.8	1563.8	1563.8	1559.7	1555.6	1551.5	1543.3	1535.1	1531.0	1527.0	1522.9
7.5°	1567.9	1567.9	1563.8	1563.8	1559.7	1555.6	1543.3	1531.0	1527.0	1522.9	1522.9
10°	1600.6	1596.5	1592.5	1584.3	1584.3	1584.3	1567.9	1555.6	1551.5	1551.5	1551.5
12.5°	1678.4	1674.3	1666.1	1653.9	1653.9	1658.0	1633.4	1617.0	1617.0	1612.9	1612.9
15°	1793.0	1789.0	1780.8	1760.3	1756.2	1764.4	1727.5	1711.2	1711.2	1711.2	1707.1
17.5°	1919.9	1911.8	1899.5	1883.1	1883.1	1883.1	1846.3	1825.8	1813.5	1813.5	1809.4
20°	2026.4	2022.3	2022.3	2018.2	2030.5	2030.5	1981.4	1948.6	1919.9	1903.6	1899.5
22.5°	2120.5	2116.4	2124.6	2141.0	2165.6	2173.8	2116.4	2067.3	2022.3	1989.5	1981.4
25°	2247.4	2243.4	2239.3	2263.8	2304.8	2317.0	2255.6	2194.2	2149.2	2132.8	2124.6
27.5°	2382.5	2386.6	2390.7	2415.3	2448.0	2468.5	2407.1	2349.8	2312.9	2288.4	2280.2
30°	2534.0	2542.2	2554.5	2591.3	2615.9	2624.1	2570.8	2529.9	2497.2	2476.7	2464.4
32.5°	2726.4	2742.8	2759.2	2791.9	2804.2	2796.0	2771.4	2742.8	2718.2	2689.6	2685.5
35°	3013.0	3029.3	3025.3	3037.5	3041.6	3033.4	3021.2	3004.8	2992.5	2955.7	2951.6
37.5°	3373.2	3389.6	3365.0	3352.7	3324.1	3328.2	3324.1	3336.4	3340.5	3303.6	3299.5
40°	3737.6	3753.9	3721.2	3688.4	3659.8	3647.5	3668.0	3708.9	3708.9	3684.3	3684.3
42.5°	4126.5	4138.7	4085.5	4044.6	4007.7	3999.6	4011.8	4061.0	4073.2	4069.1	4069.1
45°	4515.4	4507.2	4437.6	4396.6	4363.9	4343.4	4347.5	4384.4	4408.9	4421.2	4421.2
47.5°	4814.2	4801.9	4744.6	4711.9	4691.4	4662.7	4662.7	4683.2	4695.5	4699.6	4699.6
50°	5051.6	5039.4	4982.0	4978.0	4978.0	4965.7	4953.4	4949.3	4941.1	4945.2	4945.2
52.5°	5256.3	5239.9	5199.0	5207.2	5244.0	5252.2	5235.9	5203.1	5170.4	5158.1	5162.2
55°	5477.4	5452.8	5420.1	5444.6	5518.3	5551.1	5526.5	5461.0	5403.7	5366.9	5366.9
57.5°	5653.4	5624.8	5624.8	5694.4	5829.4	5894.9	5841.7	5718.9	5620.7	5579.7	5583.8
60°	5530.6	5506.0	5604.3	5911.3	6165.1	6275.7	6185.6	5968.6	5809.0	5759.8	5768.0
62.5°	5289.1	5272.7	5395.5	5870.4	6468.1	6697.3	6562.2	6251.1	6013.7	5956.3	5956.3
65°	4932.9	4928.8	5100.8	5686.2	6537.7	7102.6	6988.0	6558.1	6251.1	6173.3	6189.7
67.5°	4564.5	4564.5	4720.0	5370.9	6455.8	7274.5	7364.6	6836.5	6365.7	6173.3	6177.4
70°	3913.6	3983.2	4396.6	5080.3	6156.9	7151.7	7520.1	6640.0	5866.3	5526.5	5514.2
72.5°	2579.0	2669.1	3491.9	4572.7	5862.2	6705.5	6787.4	5833.5	4871.5	4474.4	4454.0
75°	1555.6	1633.4	2263.8	3569.7	5154.0	5399.6	5039.4	4572.7	3639.3	3328.2	3328.2
77.5°	458.5	511.7	1043.9	2263.8	3565.6	3549.2	3107.1	2693.7	2153.3	1829.9	1854.5
80°	270.2	278.4	339.8	1031.6	1477.8	1555.6	1199.5	749.1	749.1	556.7	540.4
82.5°	208.8	208.8	217.0	257.9	356.2	397.1	302.9	257.9	294.7	249.7	237.4
85°	147.4	147.4	147.4	151.5	155.6	159.7	167.8	171.9	188.3	155.6	147.4
87.5°	45.0	49.1	53.2	61.4	73.7	77.8	81.9	73.7	73.7	69.6	65.5
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)