

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: P842008

Luminaire Tested: **ARCH4-260-722-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842008
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: ARCH4-260-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32497 lumens
Efficiency: N/A
Efficacy: 125.4 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): 259.2
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

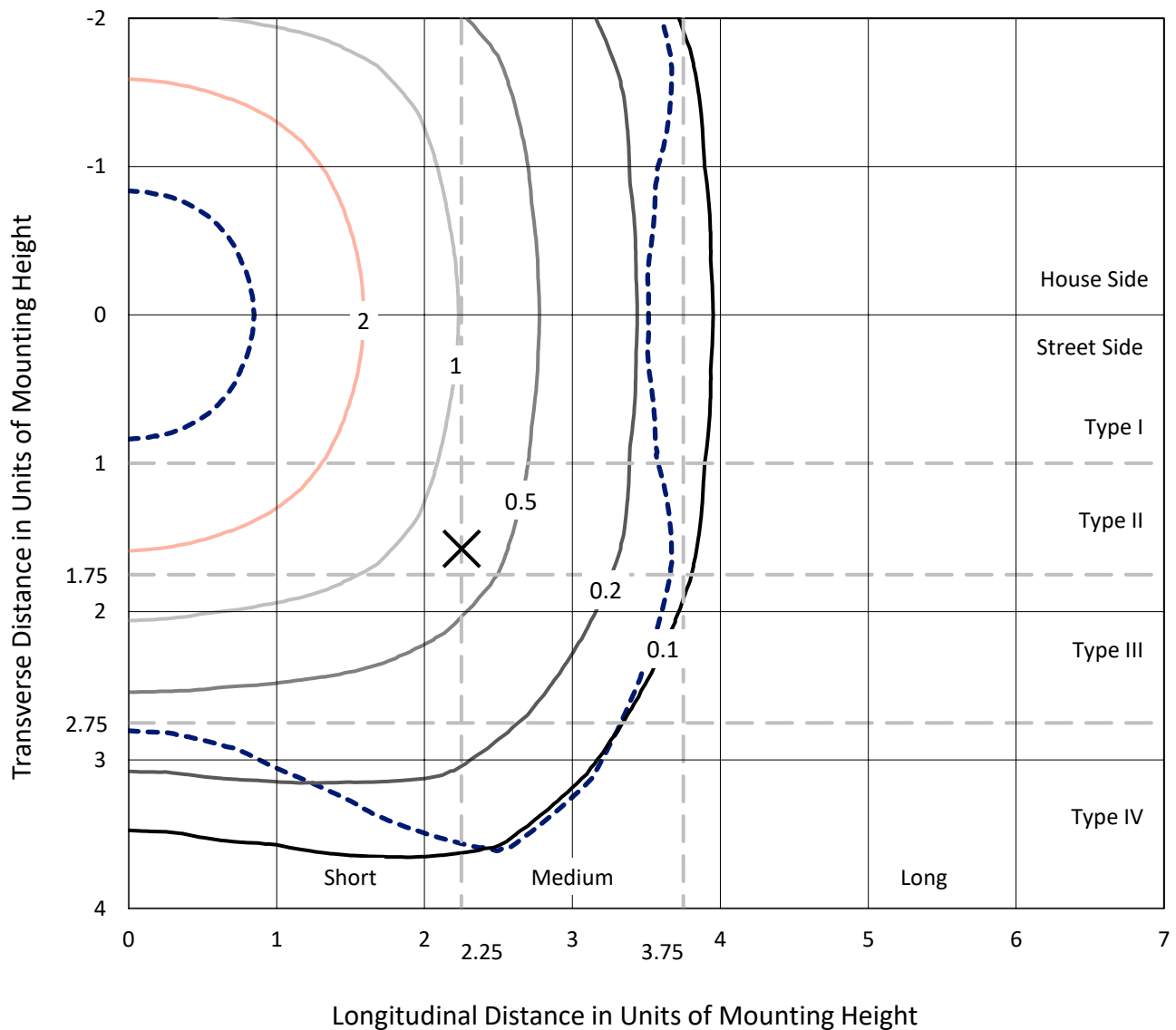


REPORT NUMBER: P842008

CATALOG NUMBER: ARCH4-260-722-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

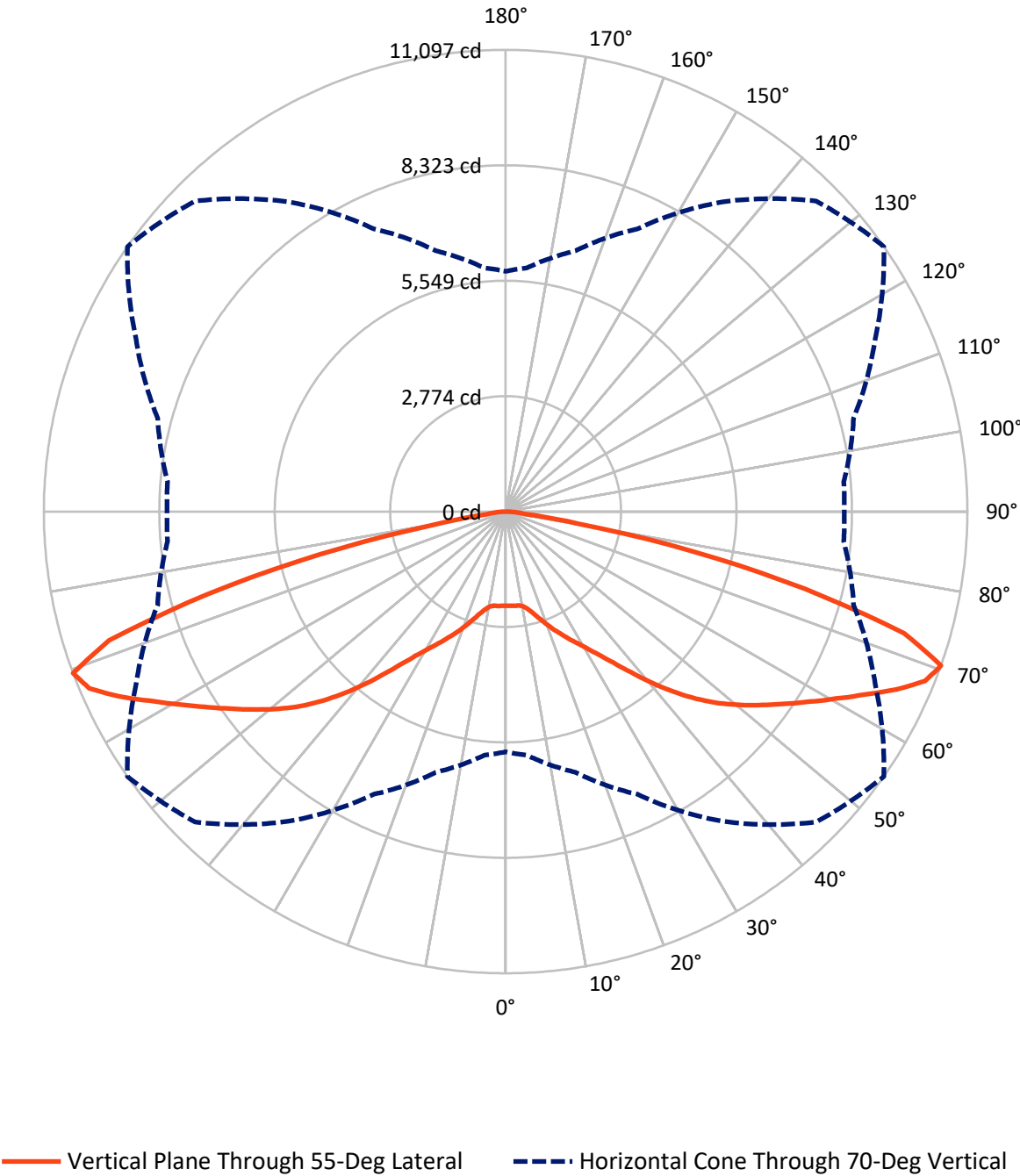
× Max cd
- - - 1/2 Max cd



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

REPORT NUMBER: P842008
CATALOG NUMBER: ARCH4-260-722-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P842008

CATALOG NUMBER: ARCH4-260-722-U-5WQ

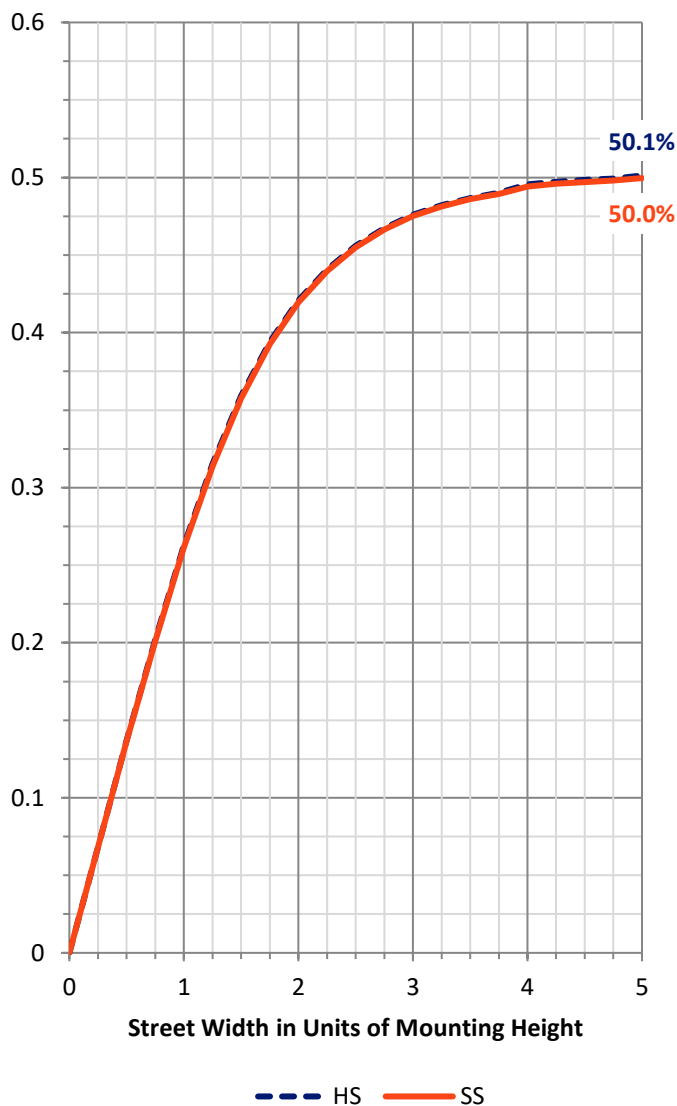
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16248.5	0.0	16248.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16248.5	0.0	16248.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32497.0	0.0	32497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.7	0.7
10°-20°	744.3	2.3
20°-30°	1546.6	4.8
30°-40°	2856.4	8.8
40°-50°	5018.1	15.4
50°-60°	7237.4	22.3
60°-70°	8857.7	27.3
70°-80°	5636.4	17.3
80°-90°	381.4	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°	32497.0	100.0
0°-180°	32497.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842008

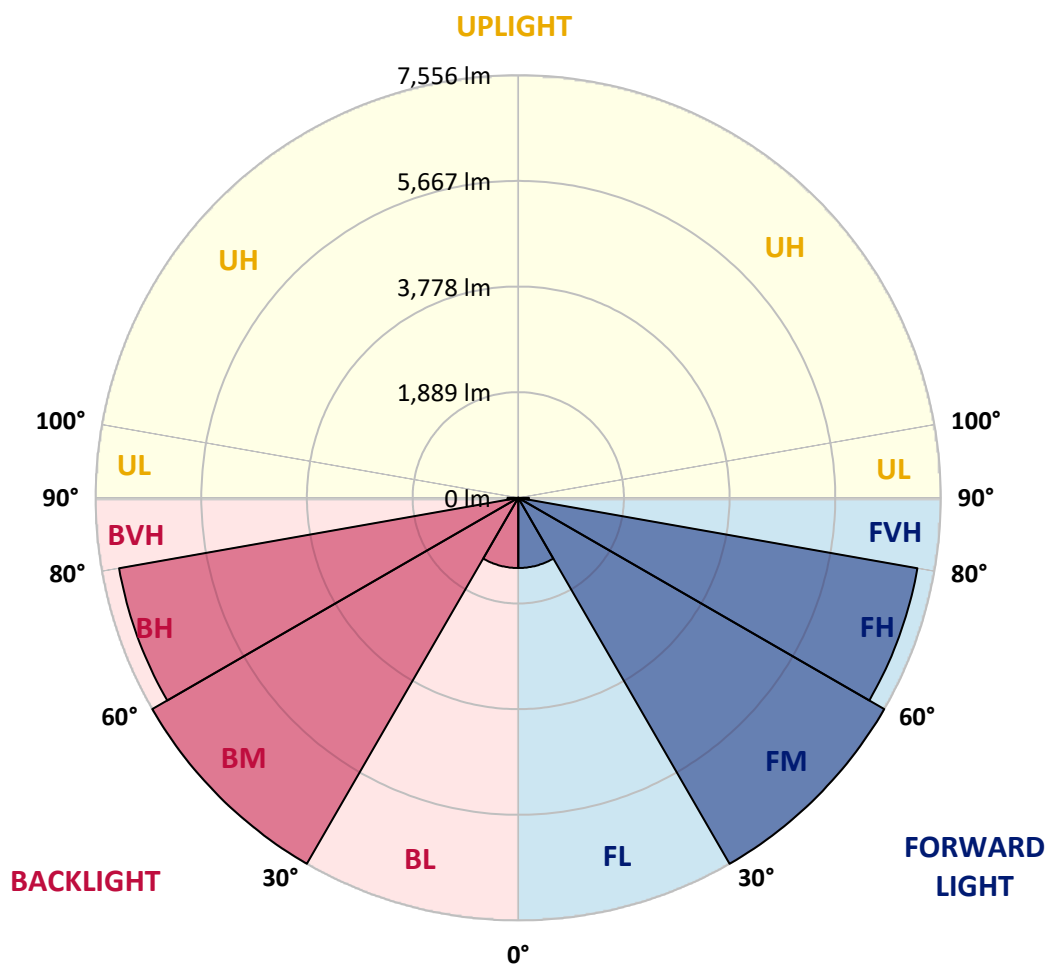
CATALOG NUMBER: ARCH4-260-722-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1254.8	3.9			
FM	(30°-60°)	7556.0	23.3			
FH	(60°-80°)	7247.0	22.3			G3/7500
FVH	(80°-90°)	190.7	0.6			G2/225
BL	(0°-30°)	1254.8	3.9	B3/2500		
BM	(30°-60°)	7556.0	23.3	B4/8500		
BH	(60°-80°)	7247.0	22.3	B5		G3/7500
BVH	(80°-90°)	190.7	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



REPORT NUMBER: P842008

CATALOG NUMBER: ARCH4-260-722-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2265.3	2265.3	2265.3	2265.3	2265.3	2265.3	2265.3	2265.3	2265.3	2265.3	2265.3
2.5°	2295.6	2295.6	2289.5	2289.5	2277.4	2271.4	2265.3	2265.3	2259.3	2259.3	2253.3
5°	2307.6	2307.6	2307.6	2301.6	2295.6	2289.5	2277.4	2265.3	2259.3	2253.3	2247.2
7.5°	2313.7	2313.7	2307.6	2307.6	2301.6	2295.6	2277.4	2259.3	2253.3	2247.2	2247.2
10°	2362.0	2356.0	2349.9	2337.8	2337.8	2337.8	2313.7	2295.6	2289.5	2289.5	2289.5
12.5°	2476.8	2470.7	2458.7	2440.5	2440.5	2446.6	2410.3	2386.2	2386.2	2380.1	2380.1
15°	2645.9	2639.9	2627.8	2597.6	2591.6	2603.6	2549.3	2525.1	2525.1	2525.1	2519.1
17.5°	2833.2	2821.1	2803.0	2778.8	2778.8	2778.8	2724.5	2694.3	2676.1	2676.1	2670.1
20°	2990.3	2984.2	2984.2	2978.2	2996.3	2996.3	2923.8	2875.5	2833.2	2809.0	2803.0
22.5°	3129.2	3123.2	3135.2	3159.4	3195.7	3207.7	3123.2	3050.7	2984.2	2935.9	2923.8
25°	3316.5	3310.4	3304.4	3340.6	3401.0	3419.2	3328.6	3237.9	3171.5	3147.3	3135.2
27.5°	3515.8	3521.9	3527.9	3564.1	3612.5	3642.7	3552.1	3467.5	3413.1	3376.9	3364.8
30°	3739.3	3751.4	3769.5	3823.9	3860.2	3872.2	3793.7	3733.3	3685.0	3654.8	3636.6
32.5°	4023.3	4047.4	4071.6	4119.9	4138.0	4126.0	4089.7	4047.4	4011.2	3968.9	3962.8
35°	4446.1	4470.3	4464.2	4482.4	4488.4	4476.3	4458.2	4434.0	4415.9	4361.5	4355.5
37.5°	4977.7	5001.9	4965.6	4947.5	4905.2	4911.3	4905.2	4923.4	4929.4	4875.0	4869.0
40°	5515.4	5539.5	5491.2	5442.9	5400.6	5382.5	5412.7	5473.1	5473.1	5436.8	5436.8
42.5°	6089.3	6107.4	6028.8	5968.4	5914.1	5902.0	5920.1	5992.6	6010.7	6004.7	6004.7
45°	6663.1	6651.1	6548.4	6488.0	6439.6	6409.4	6415.5	6469.8	6506.1	6524.2	6524.2
47.5°	7104.1	7086.0	7001.4	6953.1	6922.9	6880.6	6880.6	6910.8	6928.9	6935.0	6935.0
50°	7454.5	7436.4	7351.8	7345.8	7345.8	7327.6	7309.5	7303.5	7291.4	7297.4	7297.4
52.5°	7756.5	7732.4	7672.0	7684.1	7738.4	7750.5	7726.3	7678.0	7629.7	7611.6	7617.6
55°	8082.8	8046.5	7998.2	8034.4	8143.2	8191.5	8155.3	8058.6	7974.0	7919.7	7919.7
57.5°	8342.5	8300.2	8300.2	8402.9	8602.3	8698.9	8620.4	8439.2	8294.2	8233.8	8239.8
60°	8161.3	8125.0	8270.0	8723.1	9097.6	9260.7	9127.8	8807.7	8572.1	8499.6	8511.7
62.5°	7804.9	7780.7	7961.9	8662.7	9544.7	9883.0	9683.6	9224.5	8874.1	8789.5	8789.5
65°	7279.3	7273.3	7527.0	8390.8	9647.4	10481.0	10311.9	9677.6	9224.5	9109.7	9133.9
67.5°	6735.6	6735.6	6965.2	7925.7	9526.5	10734.7	10867.6	10088.3	9393.6	9109.7	9115.8
70°	5775.1	5877.8	6488.0	7496.8	9085.6	10553.5	11097.2	9798.4	8656.6	8155.3	8137.1
72.5°	3805.8	3938.7	5152.9	6747.7	8650.6	9895.0	10015.9	8608.3	7188.7	6602.7	6572.5
75°	2295.6	2410.3	3340.6	5267.7	7605.5	7968.0	7436.4	6747.7	5370.4	4911.3	4911.3
77.5°	676.6	755.1	1540.4	3340.6	5261.6	5237.5	4585.1	3974.9	3177.5	2700.3	2736.5
80°	398.7	410.8	501.4	1522.3	2180.8	2295.6	1770.0	1105.5	1105.5	821.6	797.4
82.5°	308.1	308.1	320.2	380.6	525.6	586.0	447.0	380.6	434.9	368.5	350.4
85°	217.5	217.5	217.5	223.5	229.6	235.6	247.7	253.7	277.9	229.6	217.5
87.5°	66.5	72.5	78.5	90.6	108.7	114.8	120.8	108.7	108.7	102.7	96.7
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)