

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: P841513

Luminaire Tested: **ARCH4-190-727-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841513
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: ARCH4-190-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28247 lumens
Efficiency: N/A
Efficacy: 148.7 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): 190
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

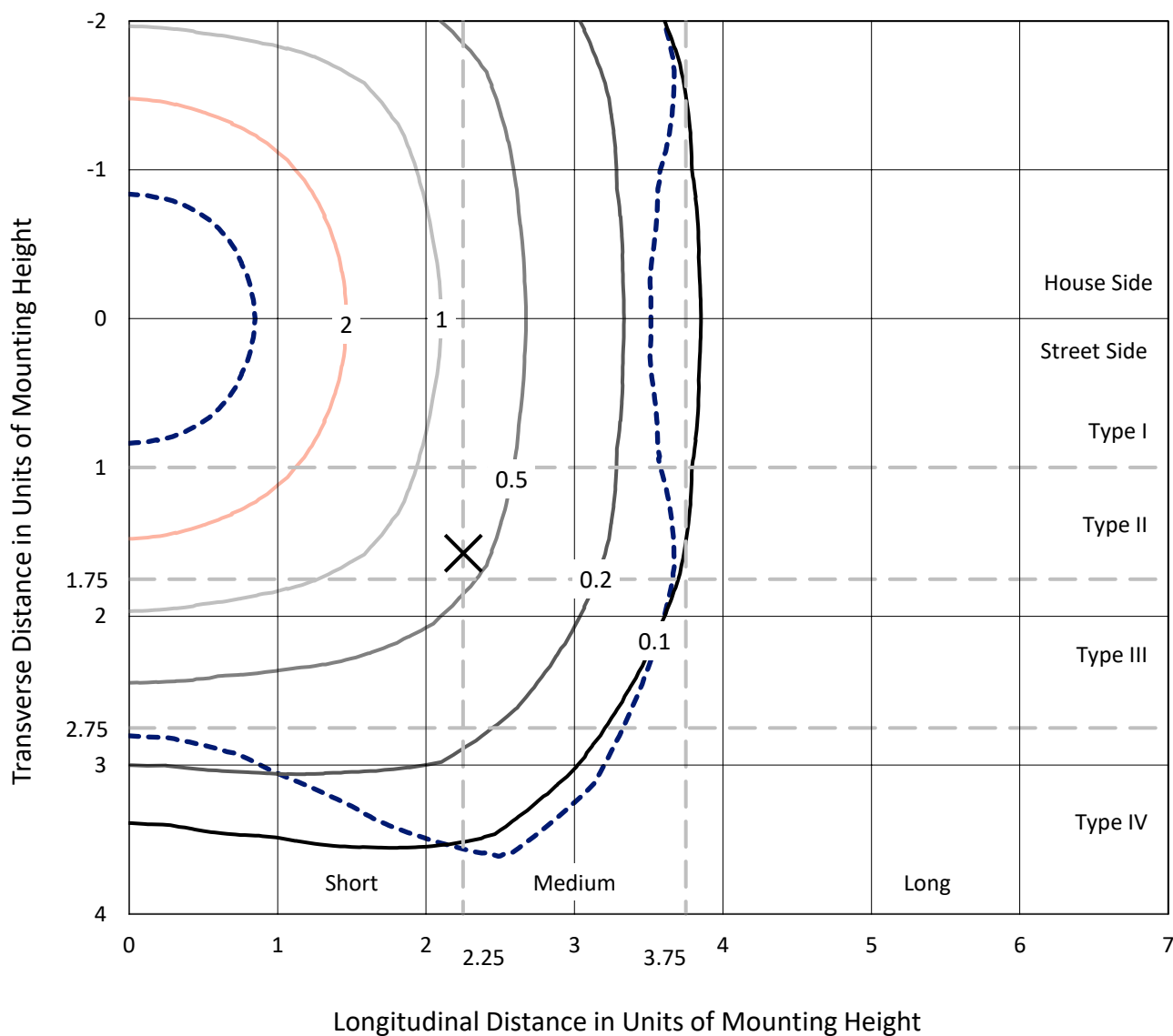


REPORT NUMBER: P841513

CATALOG NUMBER: ARCH4-190-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

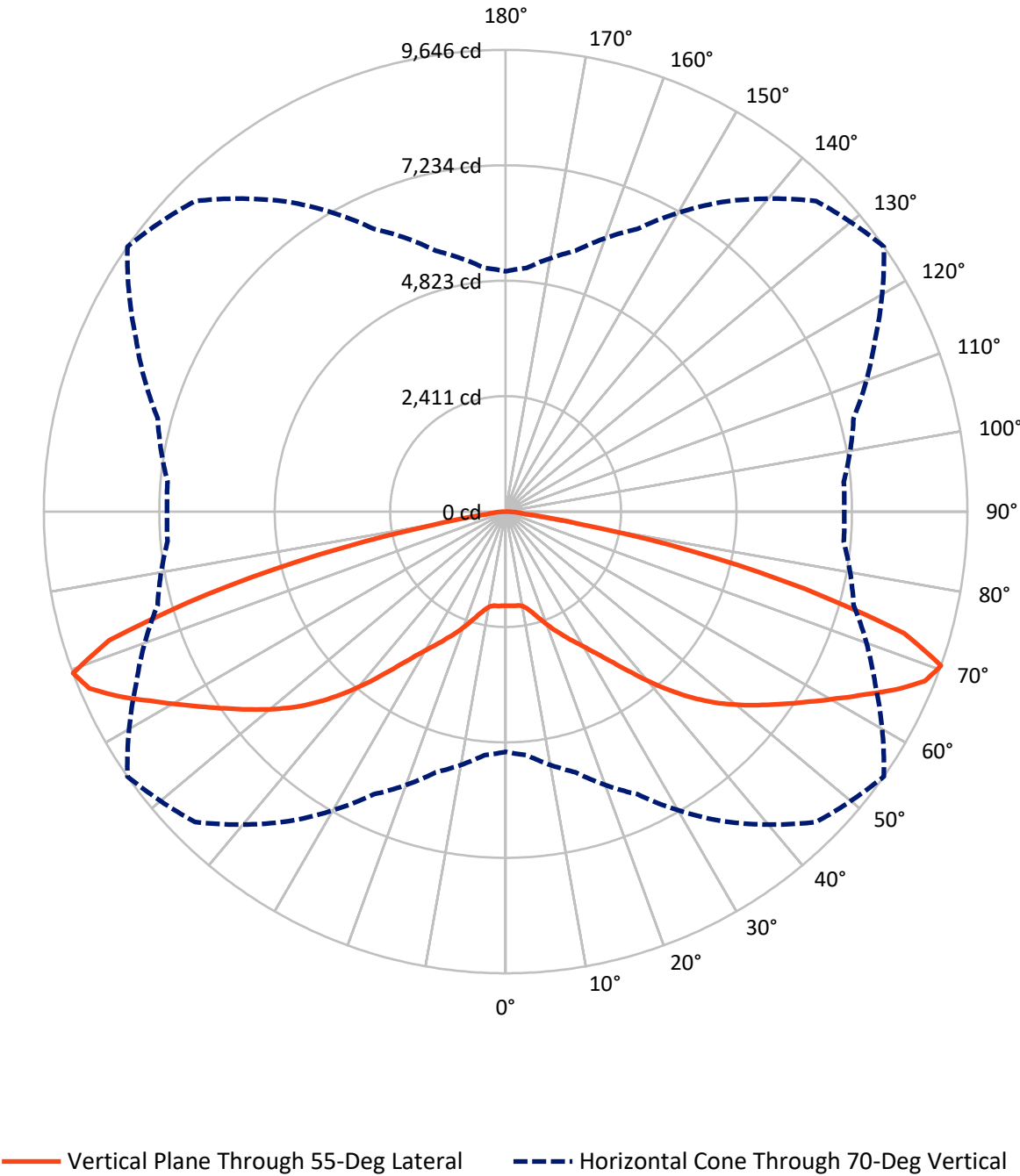
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Medium - N/A

REPORT NUMBER: P841513
CATALOG NUMBER: ARCH4-190-727-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P841513

CATALOG NUMBER: ARCH4-190-727-U-5WQ

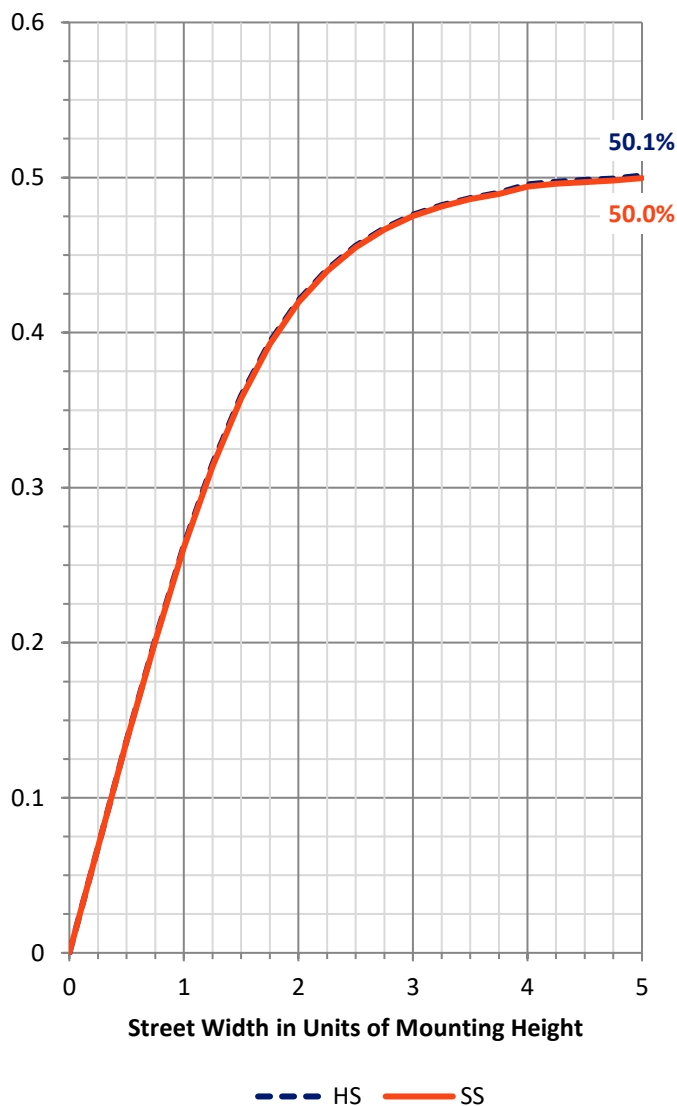
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14123.5	0.0	14123.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14123.5	0.0	14123.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28247.0	0.0	28247.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.1	0.7
10°-20°	647.0	2.3
20°-30°	1344.3	4.8
30°-40°	2482.9	8.8
40°-50°	4361.9	15.4
50°-60°	6290.9	22.3
60°-70°	7699.3	27.3
70°-80°	4899.2	17.3
80°-90°	331.5	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°	28247.0	100.0
0°-180°	28247.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841513

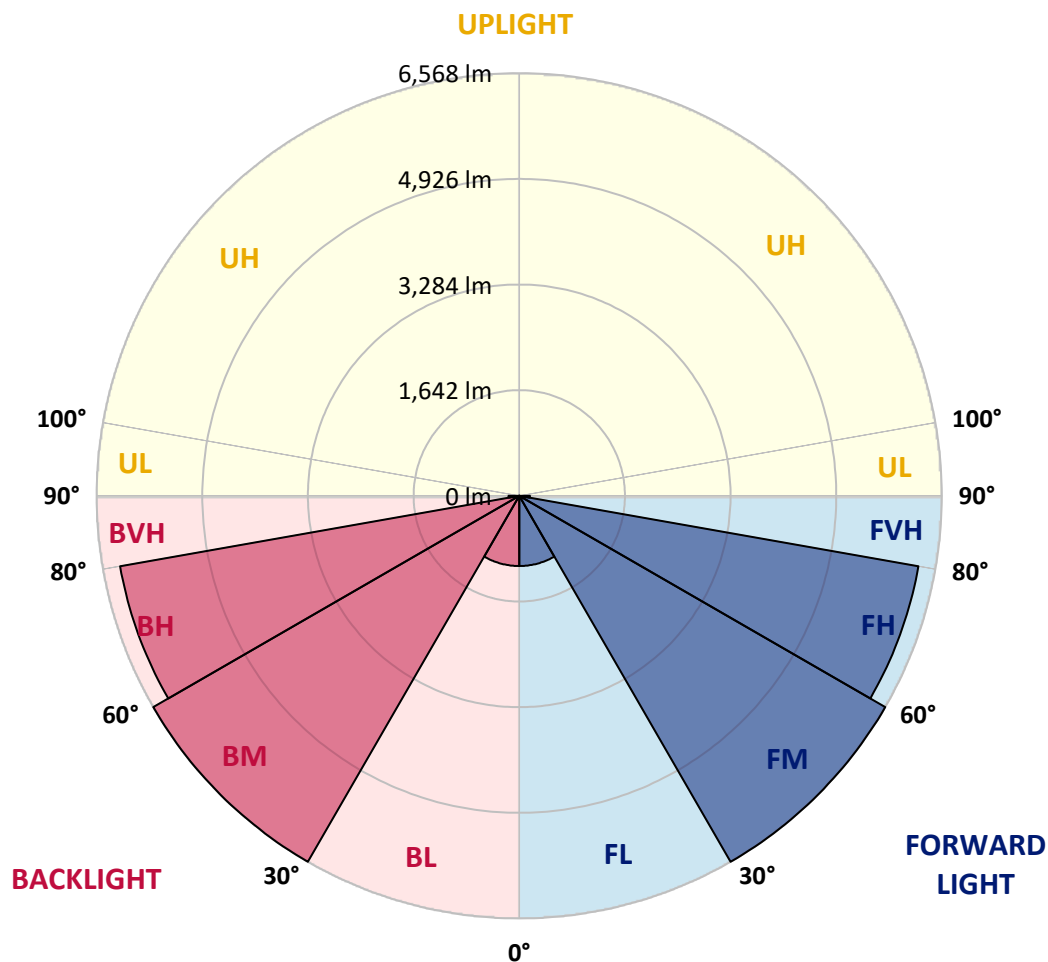
CATALOG NUMBER: ARCH4-190-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1090.7	3.9			
FM	(30°-60°)	6567.8	23.3			
FH	(60°-80°)	6299.3	22.3			G3/7500
FVH	(80°-90°)	165.7	0.6			G2/225
BL	(0°-30°)	1090.7	3.9	B3/2500		
BM	(30°-60°)	6567.8	23.3	B4/8500		
BH	(60°-80°)	6299.3	22.3	B5		G3/7500
BVH	(80°-90°)	165.7	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: P841513

CATALOG NUMBER: ARCH4-190-727-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1
2.5°	1995.3	1995.3	1990.1	1990.1	1979.6	1974.3	1969.1	1969.1	1963.8	1963.8	1958.6
5°	2005.8	2005.8	2005.8	2000.6	1995.3	1990.1	1979.6	1969.1	1963.8	1958.6	1953.3
7.5°	2011.1	2011.1	2005.8	2005.8	2000.6	1995.3	1979.6	1963.8	1958.6	1953.3	1953.3
10°	2053.1	2047.8	2042.6	2032.1	2032.1	2032.1	2011.1	1995.3	1990.1	1990.1	1990.1
12.5°	2152.9	2147.6	2137.1	2121.4	2121.4	2126.6	2095.1	2074.1	2074.1	2068.8	2068.8
15°	2299.9	2294.6	2284.1	2257.9	2252.6	2263.1	2215.9	2194.9	2194.9	2194.9	2189.6
17.5°	2462.7	2452.2	2436.4	2415.4	2415.4	2415.4	2368.1	2341.9	2326.1	2326.1	2320.9
20°	2599.2	2593.9	2593.9	2588.7	2604.4	2604.4	2541.4	2499.4	2462.7	2441.7	2436.4
22.5°	2720.0	2714.7	2725.2	2746.2	2777.7	2788.2	2714.7	2651.7	2593.9	2551.9	2541.4
25°	2882.7	2877.5	2872.2	2903.7	2956.2	2972.0	2893.2	2814.5	2756.7	2735.7	2725.2
27.5°	3056.0	3061.3	3066.5	3098.0	3140.0	3166.3	3087.5	3014.0	2966.8	2935.2	2924.7
30°	3250.3	3260.8	3276.6	3323.8	3355.3	3365.8	3297.6	3245.0	3203.0	3176.8	3161.0
32.5°	3497.1	3518.1	3539.1	3581.1	3596.9	3586.4	3554.9	3518.1	3486.6	3449.8	3444.6
35°	3864.7	3885.7	3880.4	3896.2	3901.4	3890.9	3875.2	3854.2	3838.4	3791.1	3785.9
37.5°	4326.7	4347.7	4316.2	4300.5	4263.7	4269.0	4263.7	4279.5	4284.7	4237.5	4232.2
40°	4794.1	4815.1	4773.1	4731.0	4694.3	4678.5	4704.8	4757.3	4757.3	4725.8	4725.8
42.5°	5292.9	5308.6	5240.4	5187.9	5140.6	5130.1	5145.9	5208.9	5224.6	5219.4	5219.4
45°	5791.7	5781.2	5692.0	5639.5	5597.4	5571.2	5576.4	5623.7	5655.2	5671.0	5671.0
47.5°	6175.0	6159.3	6085.8	6043.8	6017.5	5980.8	5980.8	6007.0	6022.8	6028.0	6028.0
50°	6479.6	6463.8	6390.3	6385.1	6385.1	6369.3	6353.6	6348.3	6337.8	6343.1	6343.1
52.5°	6742.1	6721.1	6668.6	6679.1	6726.4	6736.9	6715.9	6673.9	6631.9	6616.1	6621.4
55°	7025.7	6994.2	6952.2	6983.7	7078.2	7120.2	7088.7	7004.7	6931.2	6883.9	6883.9
57.5°	7251.5	7214.7	7214.7	7304.0	7477.3	7561.3	7493.0	7335.5	7209.5	7157.0	7162.2
60°	7093.9	7062.4	7188.5	7582.3	7907.8	8049.6	7934.1	7655.8	7451.0	7388.0	7398.5
62.5°	6784.1	6763.1	6920.7	7529.8	8296.4	8590.5	8417.2	8018.1	7713.6	7640.0	7640.0
65°	6327.3	6322.1	6542.6	7293.5	8385.7	9110.3	8963.3	8411.9	8018.1	7918.3	7939.3
67.5°	5854.7	5854.7	6054.3	6889.2	8280.6	9330.8	9446.3	8769.0	8165.1	7918.3	7923.6
70°	5019.8	5109.1	5639.5	6516.3	7897.3	9173.3	9645.9	8516.9	7524.5	7088.7	7072.9
72.5°	3308.1	3423.6	4479.0	5865.2	7519.3	8601.0	8706.0	7482.5	6248.6	5739.2	5713.0
75°	1995.3	2095.1	2903.7	4578.8	6610.9	6925.9	6463.8	5865.2	4668.0	4269.0	4269.0
77.5°	588.1	656.4	1339.0	2903.7	4573.5	4552.5	3985.4	3455.1	2762.0	2347.1	2378.7
80°	346.6	357.1	435.8	1323.2	1895.6	1995.3	1538.5	960.9	960.9	714.1	693.1
82.5°	267.8	267.8	278.3	330.8	456.8	509.3	388.6	330.8	378.1	320.3	304.6
85°	189.0	189.0	189.0	194.3	199.5	204.8	215.3	220.5	241.5	199.5	189.0
87.5°	57.8	63.0	68.3	78.8	94.5	99.8	105.0	94.5	94.5	89.3	84.0
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)