

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: P841477

Luminaire Tested: **ARCH4-180-750-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841477
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: ARCH4-180-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1455mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29436 lumens
Efficiency: N/A
Efficacy: 163.5 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): 180
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

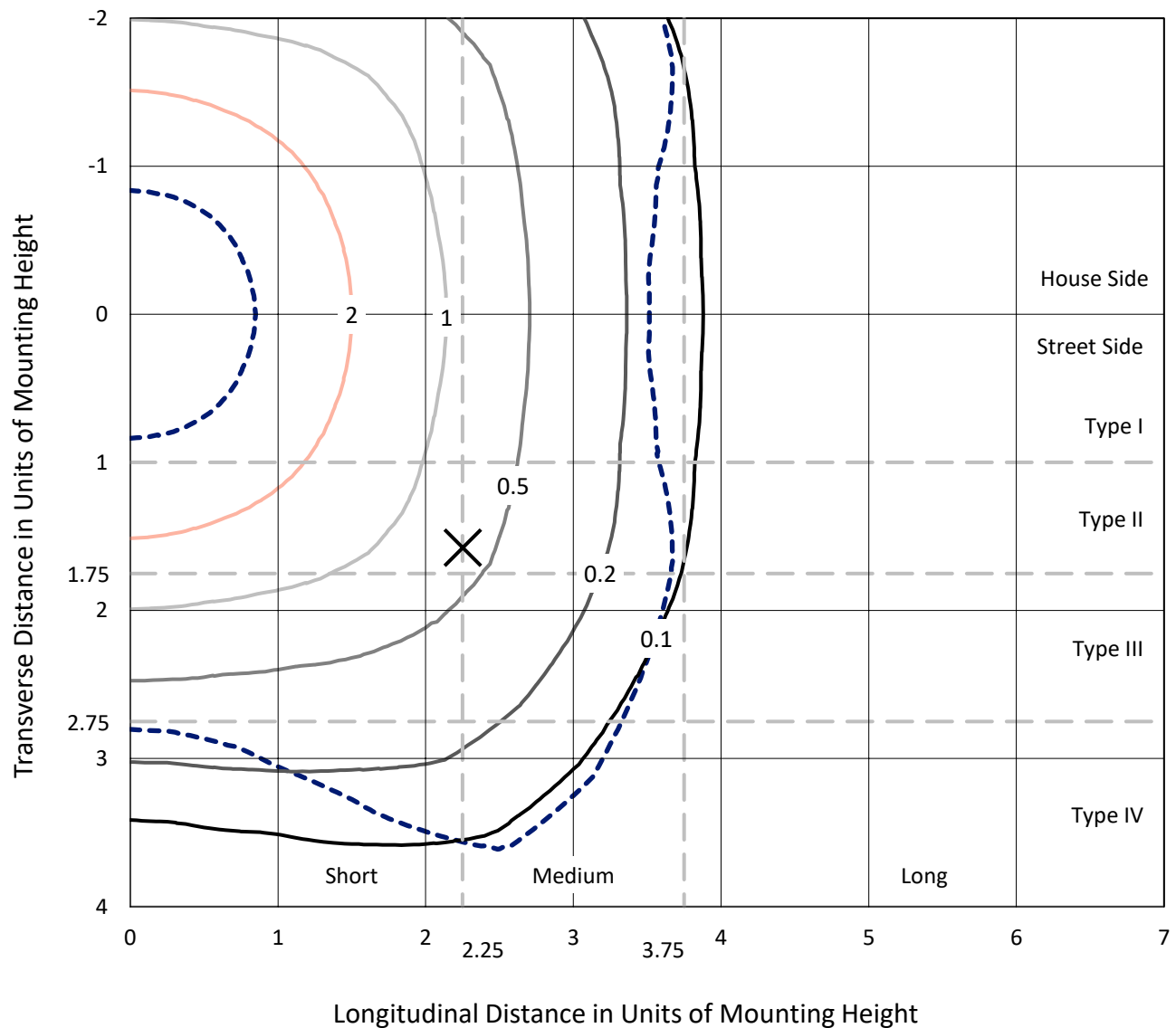


REPORT NUMBER: P841477

CATALOG NUMBER: ARCH4-180-750-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

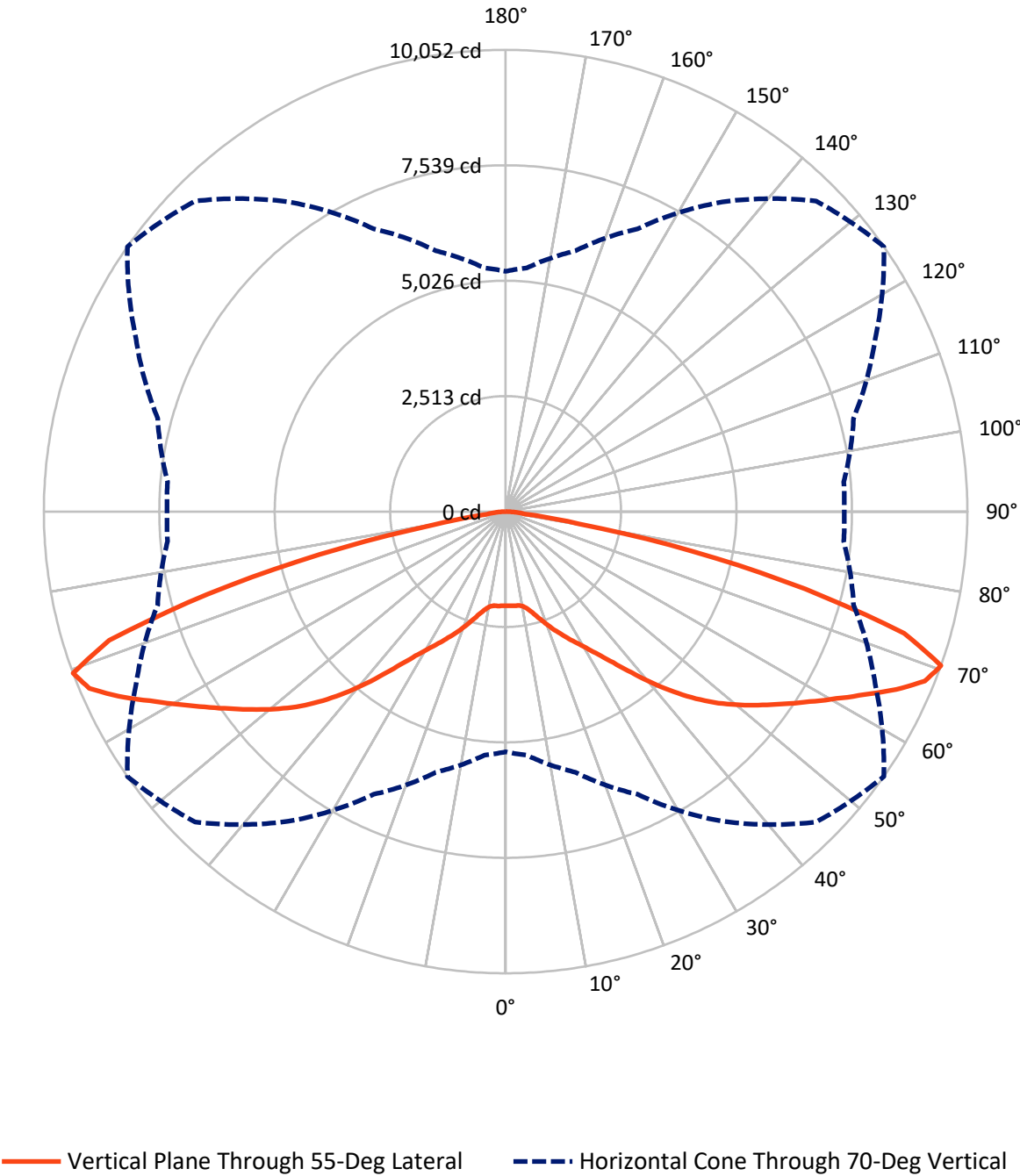
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type V - Medium - N/A

REPORT NUMBER: P841477
CATALOG NUMBER: ARCH4-180-750-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P841477

CATALOG NUMBER: ARCH4-180-750-U-5WQ

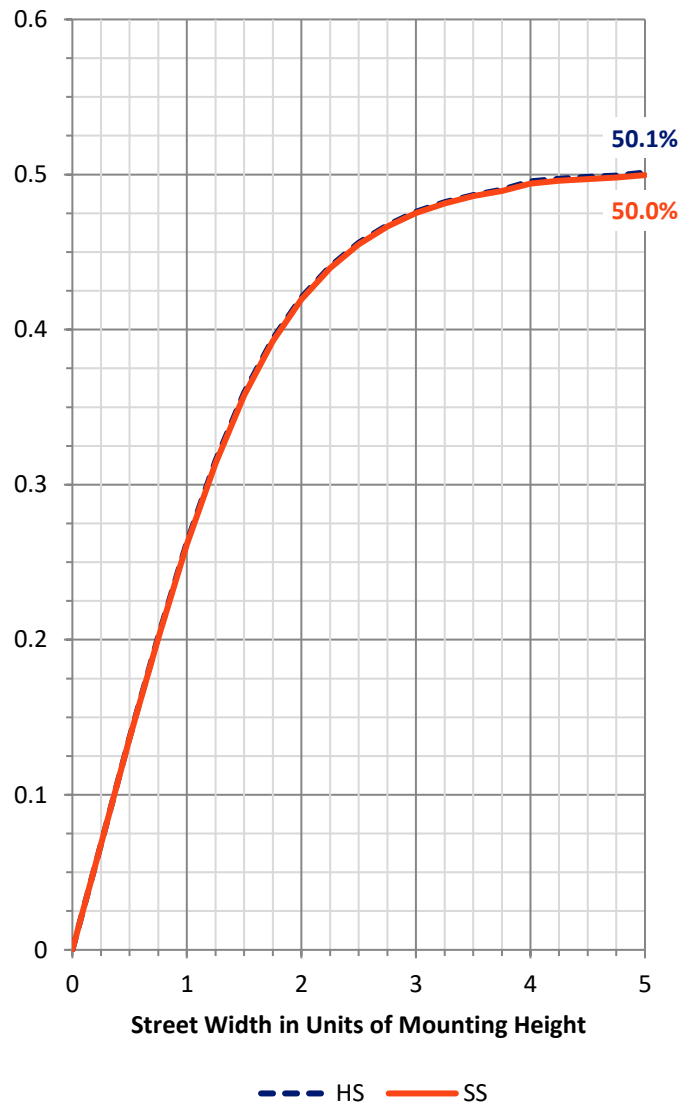
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14718.0	0.0	14718.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14718.0	0.0	14718.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29436.0	0.0	29436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.1	0.7
10°-20°	674.2	2.3
20°-30°	1400.9	4.8
30°-40°	2587.4	8.8
40°-50°	4545.5	15.4
50°-60°	6555.6	22.3
60°-70°	8023.4	27.3
70°-80°	5105.5	17.3
80°-90°	345.5	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°	29436.0	100.0
0°-180°	29436.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841477

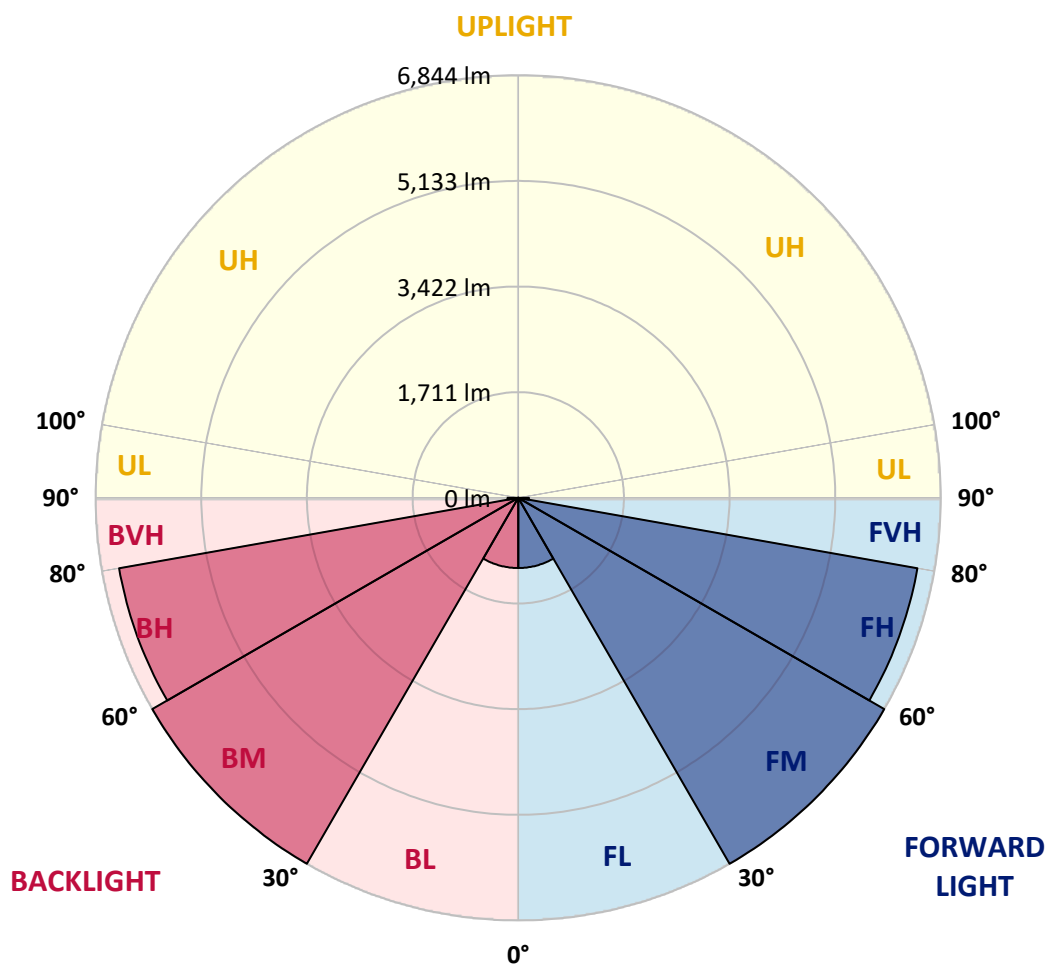
CATALOG NUMBER: ARCH4-180-750-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1136.6	3.9			
FM	(30°-60°)	6844.2	23.3			
FH	(60°-80°)	6564.4	22.3			G3/7500
FVH	(80°-90°)	172.7	0.6			G2/225
BL	(0°-30°)	1136.6	3.9	B3/2500		
BM	(30°-60°)	6844.2	23.3	B4/8500		
BH	(60°-80°)	6564.4	22.3	B5		G3/7500
BVH	(80°-90°)	172.7	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: P841477

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0
2.5°	2079.3	2079.3	2073.9	2073.9	2062.9	2057.4	2052.0	2052.0	2046.5	2046.5	2041.0
5°	2090.3	2090.3	2090.3	2084.8	2079.3	2073.9	2062.9	2052.0	2046.5	2041.0	2035.6
7.5°	2095.7	2095.7	2090.3	2090.3	2084.8	2079.3	2062.9	2046.5	2041.0	2035.6	2035.6
10°	2139.5	2134.0	2128.6	2117.6	2117.6	2117.6	2095.7	2079.3	2073.9	2073.9	2073.9
12.5°	2243.5	2238.0	2227.1	2210.7	2210.7	2216.1	2183.3	2161.4	2161.4	2155.9	2155.9
15°	2396.7	2391.2	2380.3	2352.9	2347.5	2358.4	2309.1	2287.3	2287.3	2287.3	2281.8
17.5°	2566.3	2555.4	2539.0	2517.1	2517.1	2517.1	2467.8	2440.5	2424.1	2424.1	2418.6
20°	2708.6	2703.1	2703.1	2697.7	2714.1	2714.1	2648.4	2604.6	2566.3	2544.4	2539.0
22.5°	2834.5	2829.0	2839.9	2861.8	2894.6	2905.6	2829.0	2763.3	2703.1	2659.3	2648.4
25°	3004.1	2998.6	2993.1	3026.0	3080.7	3097.1	3015.0	2932.9	2872.8	2850.9	2839.9
27.5°	3184.7	3190.1	3195.6	3228.4	3272.2	3299.6	3217.5	3140.9	3091.6	3058.8	3047.9
30°	3387.1	3398.1	3414.5	3463.7	3496.6	3507.5	3436.4	3381.6	3337.9	3310.5	3294.1
32.5°	3644.3	3666.2	3688.1	3731.8	3748.3	3737.3	3704.5	3666.2	3633.3	3595.0	3589.6
35°	4027.3	4049.2	4043.7	4060.2	4065.6	4054.7	4038.3	4016.4	4000.0	3950.7	3945.2
37.5°	4508.9	4530.7	4497.9	4481.5	4443.2	4448.7	4443.2	4459.6	4465.1	4415.8	4410.4
40°	4995.9	5017.7	4974.0	4930.2	4891.9	4875.5	4902.8	4957.6	4957.6	4924.7	4924.7
42.5°	5515.7	5532.1	5461.0	5406.2	5357.0	5346.1	5362.5	5428.1	5444.6	5439.1	5439.1
45°	6035.5	6024.6	5931.6	5876.8	5833.1	5805.7	5811.2	5860.4	5893.2	5909.7	5909.7
47.5°	6435.0	6418.6	6341.9	6298.2	6270.8	6232.5	6232.5	6259.9	6276.3	6281.8	6281.8
50°	6752.3	6735.9	6659.3	6653.8	6653.8	6637.4	6621.0	6615.5	6604.6	6610.1	6610.1
52.5°	7025.9	7004.0	6949.3	6960.3	7009.5	7020.5	6998.6	6954.8	6911.0	6894.6	6900.1
55°	7321.4	7288.6	7244.8	7277.6	7376.1	7419.9	7387.1	7299.5	7222.9	7173.7	7173.7
57.5°	7556.7	7518.4	7518.4	7611.4	7792.0	7879.6	7808.4	7644.3	7512.9	7458.2	7463.7
60°	7392.6	7359.7	7491.0	7901.4	8240.7	8388.4	8268.1	7978.0	7764.6	7699.0	7709.9
62.5°	7069.7	7047.8	7212.0	7846.7	8645.6	8952.0	8771.5	8355.6	8038.2	7961.6	7961.6
65°	6593.7	6588.2	6818.0	7600.5	8738.6	9493.8	9340.6	8766.0	8355.6	8251.6	8273.5
67.5°	6101.2	6101.2	6309.1	7179.1	8629.2	9723.6	9844.0	9138.1	8508.8	8251.6	8257.1
70°	5231.1	5324.2	5876.8	6790.6	8229.8	9559.4	10051.9	8875.4	7841.2	7387.1	7370.7
72.5°	3447.3	3567.7	4667.5	6112.1	7835.8	8963.0	9072.4	7797.5	6511.6	5980.8	5953.4
75°	2079.3	2183.3	3026.0	4771.5	6889.1	7217.5	6735.9	6112.1	4864.5	4448.7	4448.7
77.5°	612.9	684.0	1395.3	3026.0	4766.0	4744.1	4153.2	3600.5	2878.2	2445.9	2478.8
80°	361.1	372.1	454.2	1378.9	1975.4	2079.3	1603.3	1001.4	1001.4	744.2	722.3
82.5°	279.1	279.1	290.0	344.7	476.1	530.8	404.9	344.7	394.0	333.8	317.4
85°	197.0	197.0	197.0	202.5	207.9	213.4	224.3	229.8	251.7	207.9	197.0
87.5°	60.2	65.7	71.1	82.1	98.5	104.0	109.4	98.5	98.5	93.0	87.6
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)