

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: P836458

Luminaire Tested: **ARCH3-190-727-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836458
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: ARCH3-190-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23414 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G3

Input Watts (W): 189.4
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



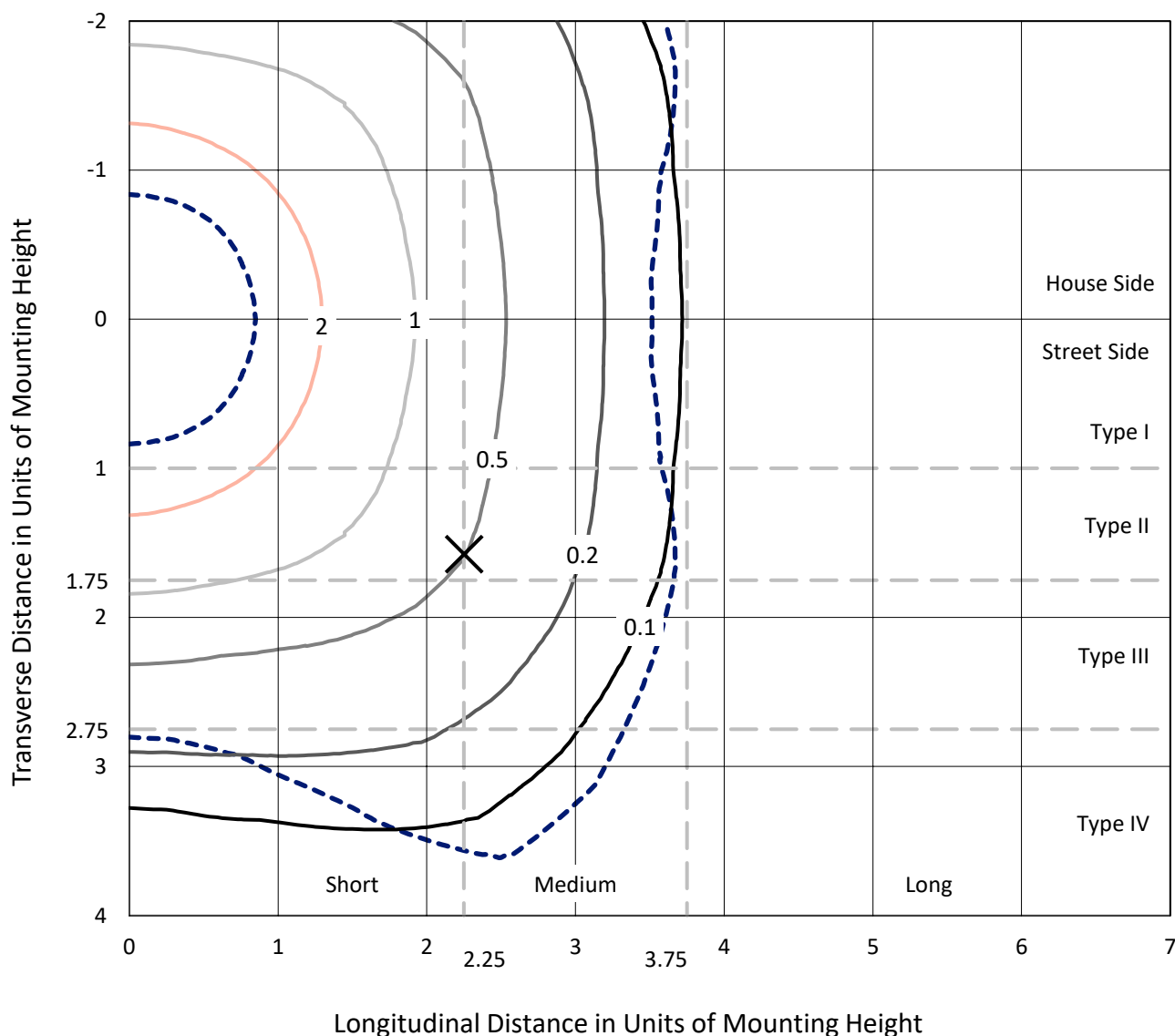
REPORT NUMBER: P836458

CATALOG NUMBER: ARCH3-190-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

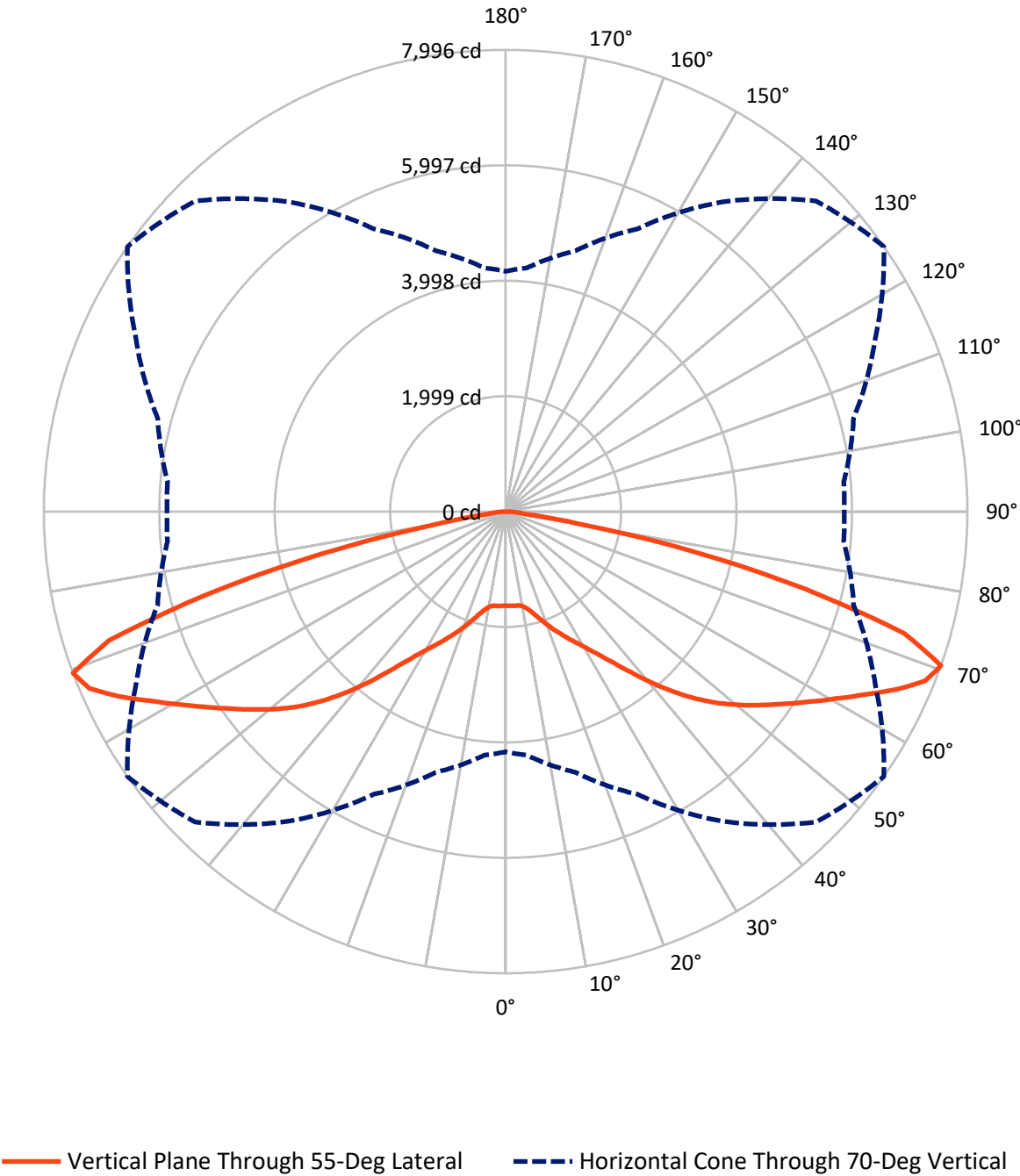
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Medium - N/A

REPORT NUMBER: P836458
CATALOG NUMBER: ARCH3-190-727-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P836458

CATALOG NUMBER: ARCH3-190-727-U-5WQ

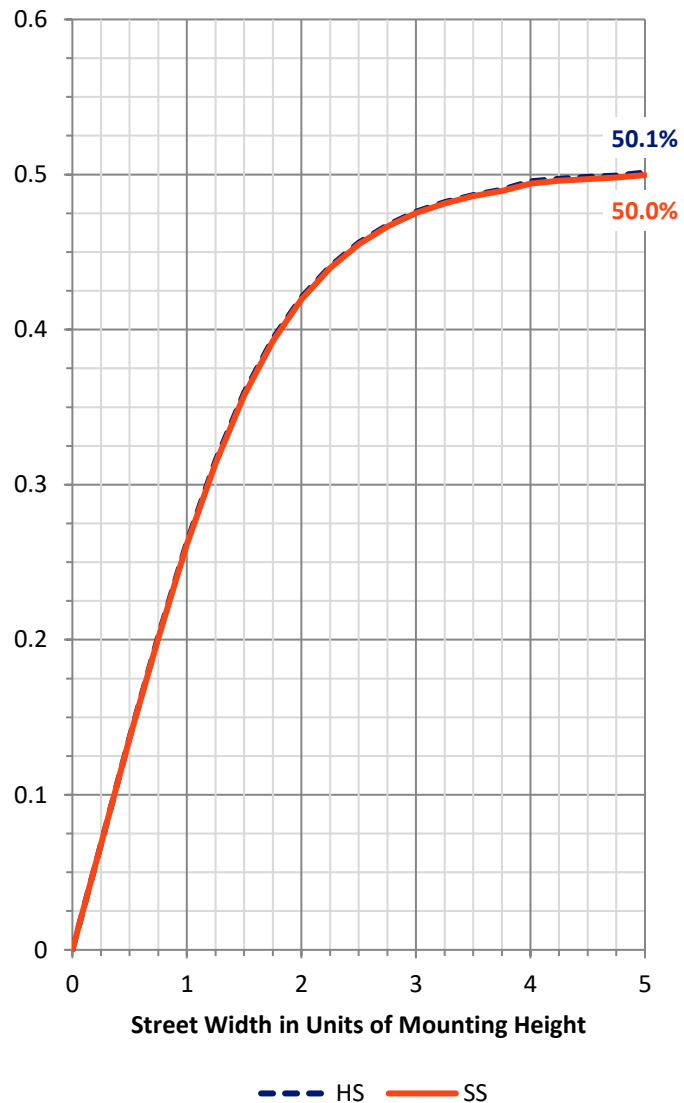
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11707.0	0.0	11707.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11707.0	0.0	11707.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23414.0	0.0	23414.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	0.7
10°-20°	536.3	2.3
20°-30°	1114.3	4.8
30°-40°	2058.1	8.8
40°-50°	3615.6	15.4
50°-60°	5214.5	22.3
60°-70°	6382.0	27.3
70°-80°	4061.0	17.3
80°-90°	274.8	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°	23414.0	100.0
0°-180°	23414.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836458

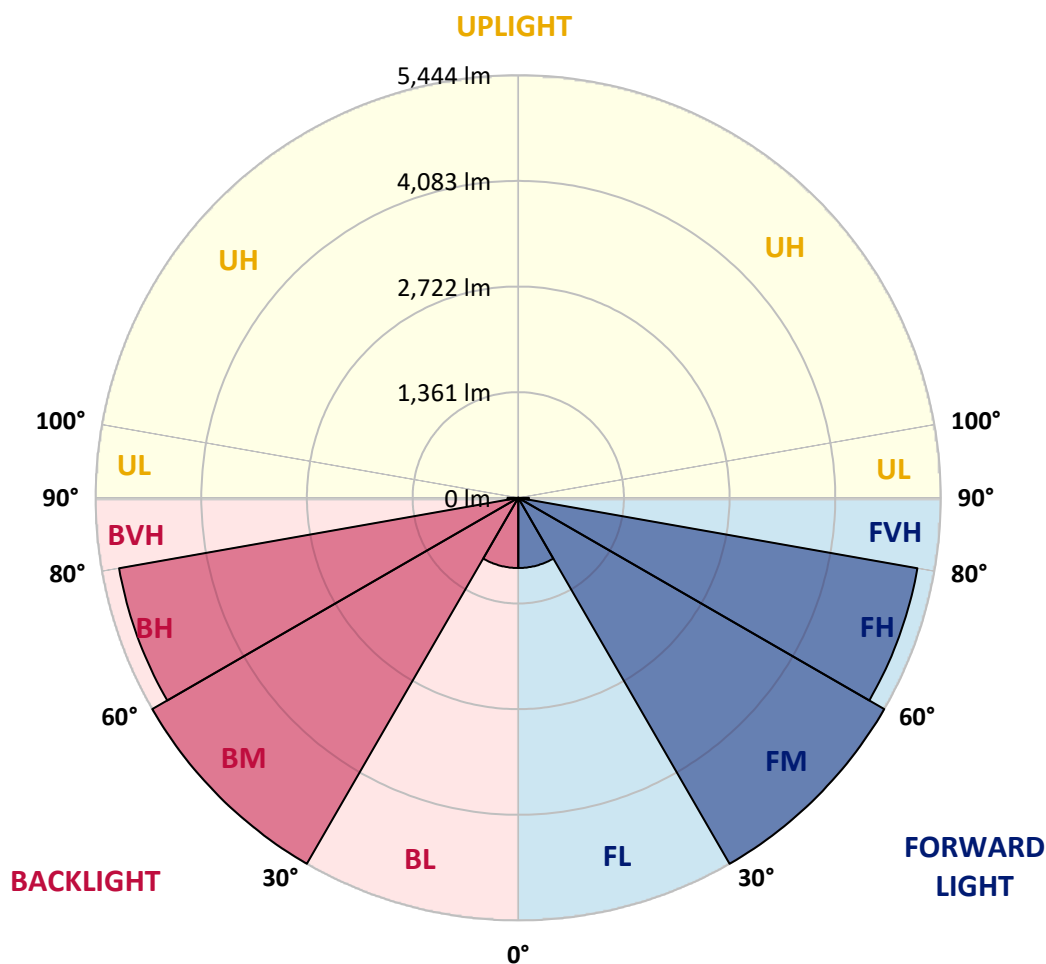
CATALOG NUMBER: ARCH3-190-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	904.1	3.9			
FM	(30°-60°)	5444.1	23.3			
FH	(60°-80°)	5221.5	22.3			G3/7500
FVH	(80°-90°)	137.4	0.6			G2/225
BL	(0°-30°)	904.1	3.9	B2/1000		
BM	(30°-60°)	5444.1	23.3	B4/8500		
BH	(60°-80°)	5221.5	22.3	B5		G3/7500
BVH	(80°-90°)	137.4	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: P836458

CATALOG NUMBER: ARCH3-190-727-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2
2.5°	1653.9	1653.9	1649.6	1649.6	1640.9	1636.5	1632.2	1632.2	1627.8	1627.8	1623.5
5°	1662.6	1662.6	1662.6	1658.3	1653.9	1649.6	1640.9	1632.2	1627.8	1623.5	1619.1
7.5°	1667.0	1667.0	1662.6	1662.6	1658.3	1653.9	1640.9	1627.8	1623.5	1619.1	1619.1
10°	1701.8	1697.5	1693.1	1684.4	1684.4	1684.4	1667.0	1653.9	1649.6	1649.6	1649.6
12.5°	1784.5	1780.2	1771.5	1758.4	1758.4	1762.8	1736.6	1719.2	1719.2	1714.9	1714.9
15°	1906.4	1902.0	1893.3	1871.6	1867.2	1875.9	1836.7	1819.3	1819.3	1819.3	1815.0
17.5°	2041.3	2032.6	2019.5	2002.1	2002.1	2002.1	1963.0	1941.2	1928.1	1928.1	1923.8
20°	2154.5	2150.1	2150.1	2145.8	2158.8	2158.8	2106.6	2071.8	2041.3	2023.9	2019.5
22.5°	2254.6	2250.2	2258.9	2276.3	2302.5	2311.2	2250.2	2198.0	2150.1	2115.3	2106.6
25°	2389.5	2385.2	2380.8	2406.9	2450.4	2463.5	2398.2	2332.9	2285.0	2267.6	2258.9
27.5°	2533.1	2537.5	2541.8	2568.0	2602.8	2624.5	2559.3	2498.3	2459.1	2433.0	2424.3
30°	2694.2	2702.9	2715.9	2755.1	2781.2	2789.9	2733.4	2689.8	2655.0	2633.2	2620.2
32.5°	2898.7	2916.2	2933.6	2968.4	2981.4	2972.7	2946.6	2916.2	2890.0	2859.6	2855.2
35°	3203.4	3220.8	3216.5	3229.5	3233.9	3225.2	3212.1	3194.7	3181.7	3142.5	3138.1
37.5°	3586.4	3603.8	3577.7	3564.7	3534.2	3538.6	3534.2	3547.3	3551.6	3512.4	3508.1
40°	3973.8	3991.2	3956.4	3921.6	3891.1	3878.1	3899.8	3943.3	3943.3	3917.2	3917.2
42.5°	4387.3	4400.3	4343.8	4300.2	4261.1	4252.4	4265.4	4317.7	4330.7	4326.4	4326.4
45°	4800.8	4792.1	4718.1	4674.6	4639.7	4618.0	4622.3	4661.5	4687.6	4700.7	4700.7
47.5°	5118.5	5105.4	5044.5	5009.7	4987.9	4957.5	4957.5	4979.2	4992.3	4996.6	4996.6
50°	5370.9	5357.9	5297.0	5292.6	5292.6	5279.5	5266.5	5262.1	5253.4	5257.8	5257.8
52.5°	5588.6	5571.2	5527.6	5536.3	5575.5	5584.2	5566.8	5532.0	5497.2	5484.1	5488.5
55°	5823.6	5797.5	5762.7	5788.8	5867.1	5902.0	5875.8	5806.2	5745.3	5706.1	5706.1
57.5°	6010.8	5980.3	5980.3	6054.3	6197.9	6267.6	6211.0	6080.4	5975.9	5932.4	5936.8
60°	5880.2	5854.1	5958.5	6285.0	6554.8	6672.3	6576.6	6345.9	6176.2	6123.9	6132.6
62.5°	5623.4	5606.0	5736.6	6241.4	6876.9	7120.6	6977.0	6646.2	6393.8	6332.8	6332.8
65°	5244.7	5240.4	5423.2	6045.6	6950.9	7551.5	7429.7	6972.7	6646.2	6563.5	6580.9
67.5°	4853.0	4853.0	5018.4	5710.4	6863.8	7734.3	7830.1	7268.6	6768.1	6563.5	6567.9
70°	4161.0	4235.0	4674.6	5401.4	6546.1	7603.8	7995.5	7059.7	6237.1	5875.8	5862.8
72.5°	2742.1	2837.8	3712.7	4861.7	6232.7	7129.3	7216.4	6202.3	5179.4	4757.3	4735.5
75°	1653.9	1736.6	2406.9	3795.4	5479.8	5740.9	5357.9	4861.7	3869.3	3538.6	3538.6
77.5°	487.5	544.1	1109.9	2406.9	3791.0	3773.6	3303.5	2863.9	2289.4	1945.6	1971.7
80°	287.3	296.0	361.3	1096.8	1571.2	1653.9	1275.3	796.5	796.5	591.9	574.5
82.5°	222.0	222.0	230.7	274.2	378.7	422.2	322.1	274.2	313.4	265.5	252.4
85°	156.7	156.7	156.7	161.0	165.4	169.7	178.5	182.8	200.2	165.4	156.7
87.5°	47.9	52.2	56.6	65.3	78.3	82.7	87.0	78.3	78.3	74.0	69.6
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)