

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: P836170

Luminaire Tested: **ARCH3-150-727-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836170
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: ARCH3-150-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20239 lumens
Efficiency: N/A
Efficacy: 134.3 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

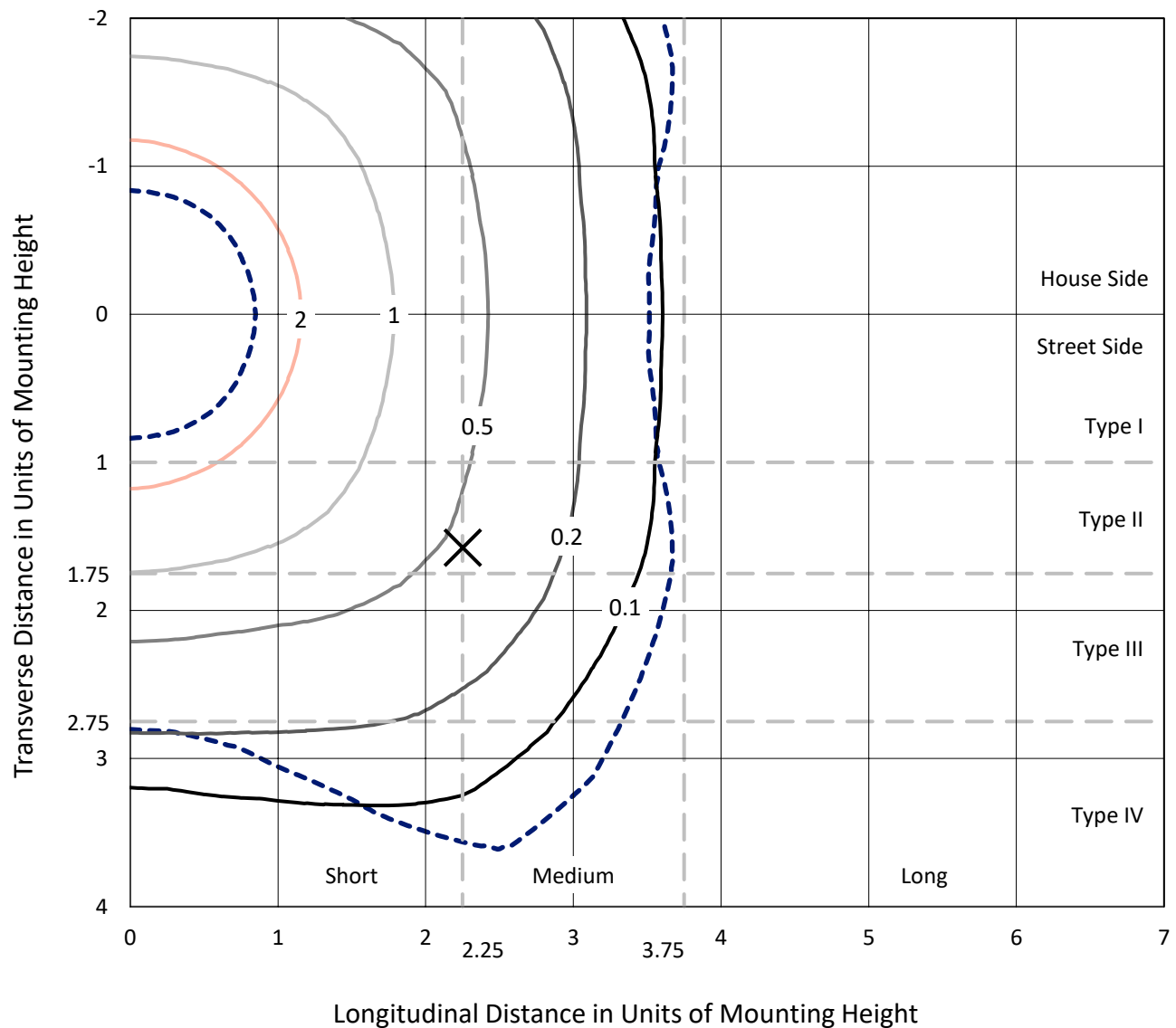


REPORT NUMBER: P836170

CATALOG NUMBER: ARCH3-150-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

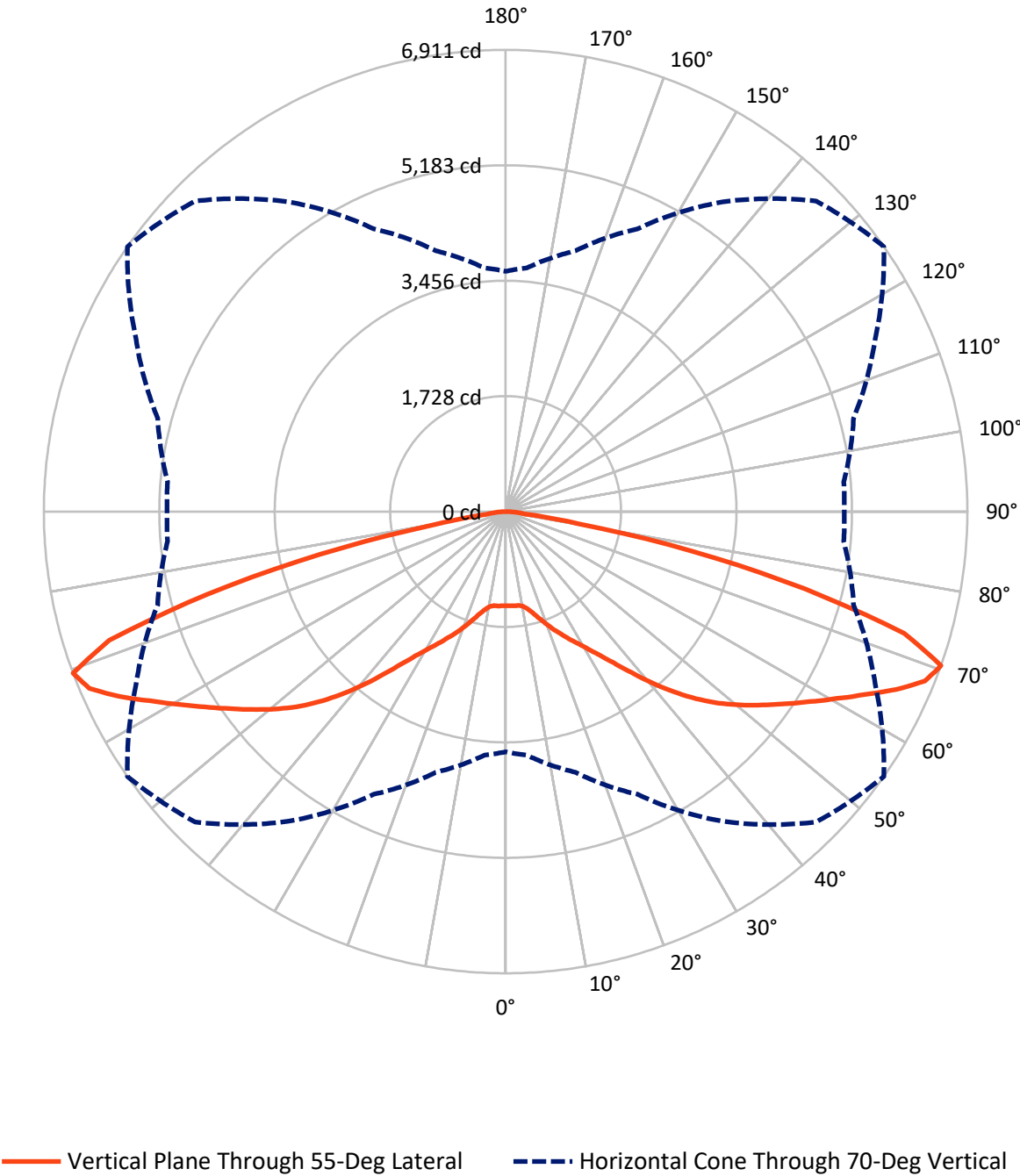
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type V - Medium - N/A

REPORT NUMBER: P836170
CATALOG NUMBER: ARCH3-150-727-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P836170

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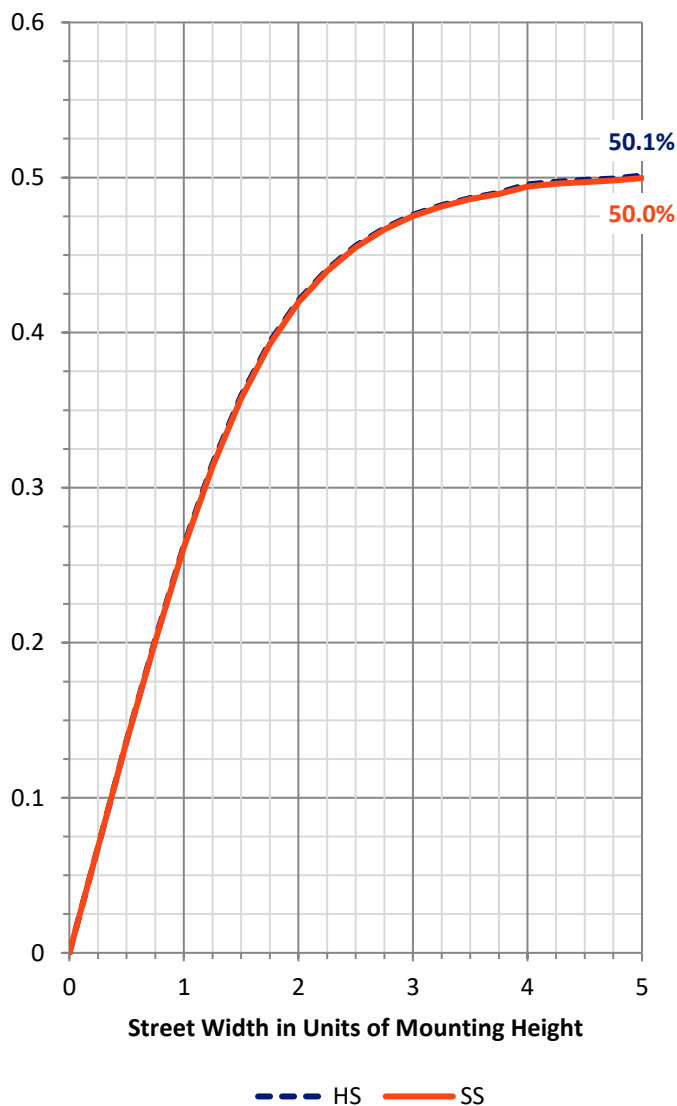
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10119.5	0.0	10119.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10119.5	0.0	10119.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20239.0	0.0	20239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.2	0.7
10°-20°	463.6	2.3
20°-30°	963.2	4.8
30°-40°	1779.0	8.8
40°-50°	3125.3	15.4
50°-60°	4507.4	22.3
60°-70°	5516.6	27.3
70°-80°	3510.3	17.3
80°-90°	237.5	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°	20239.0	100.0
0°-180°	20239.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836170

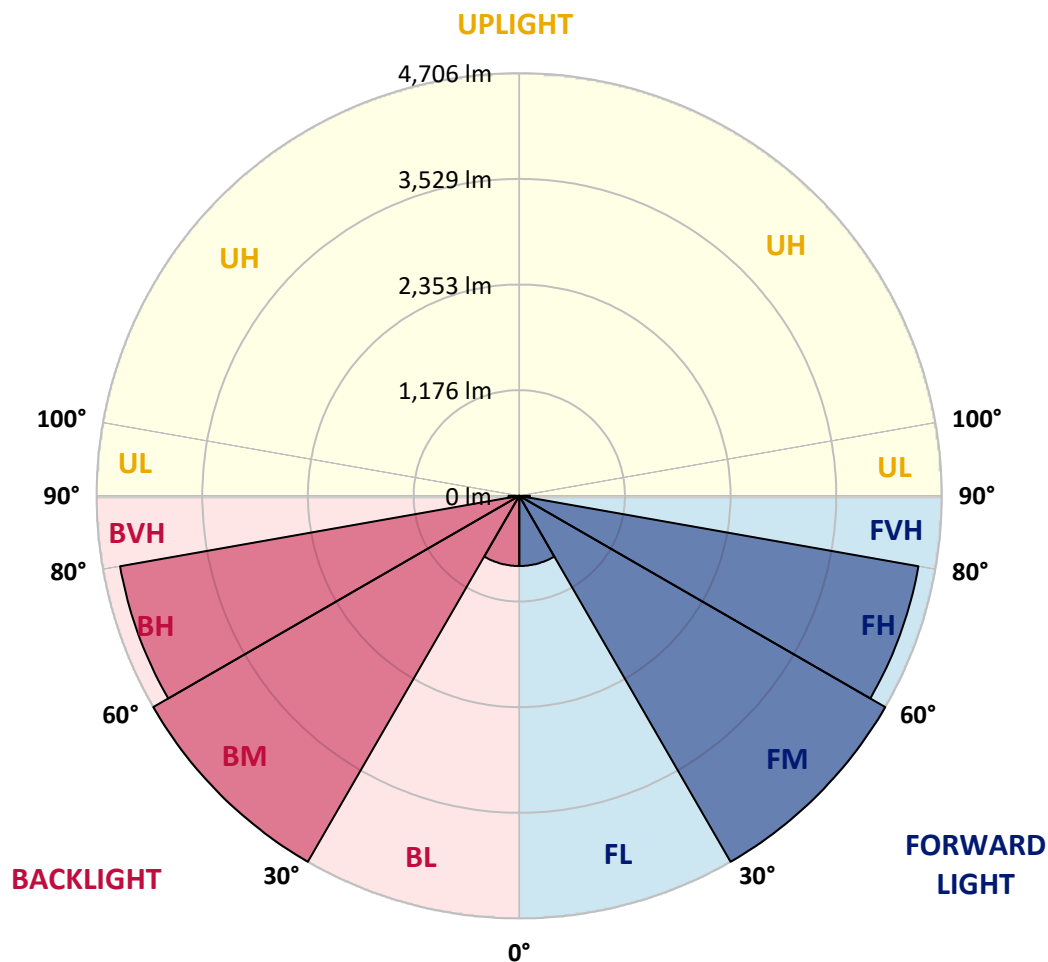
CATALOG NUMBER: ARCH3-150-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	781.5	3.9			
FM	(30°-60°)	4705.8	23.3			
FH	(60°-80°)	4513.4	22.3			G2/5000
FVH	(80°-90°)	118.8	0.6			G2/225
BL	(0°-30°)	781.5	3.9	B2/1000		
BM	(30°-60°)	4705.8	23.3	B3/5000		
BH	(60°-80°)	4513.4	22.3	B4/5000		G2/5000
BVH	(80°-90°)	118.8	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



REPORT NUMBER: P836170

CATALOG NUMBER: ARCH3-150-727-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1410.8	1410.8	1410.8	1410.8	1410.8	1410.8	1410.8	1410.8	1410.8	1410.8	1410.8
2.5°	1429.7	1429.7	1425.9	1425.9	1418.4	1414.6	1410.8	1410.8	1407.1	1407.1	1403.3
5°	1437.2	1437.2	1437.2	1433.4	1429.7	1425.9	1418.4	1410.8	1407.1	1403.3	1399.6
7.5°	1440.9	1440.9	1437.2	1437.2	1433.4	1429.7	1418.4	1407.1	1403.3	1399.6	1399.6
10°	1471.0	1467.3	1463.5	1456.0	1456.0	1456.0	1440.9	1429.7	1425.9	1425.9	1425.9
12.5°	1542.5	1538.8	1531.2	1520.0	1520.0	1523.7	1501.1	1486.1	1486.1	1482.3	1482.3
15°	1647.9	1644.1	1636.6	1617.8	1614.0	1621.5	1587.7	1572.6	1572.6	1572.6	1568.9
17.5°	1764.5	1757.0	1745.7	1730.6	1730.6	1730.6	1696.8	1678.0	1666.7	1666.7	1662.9
20°	1862.3	1858.6	1858.6	1854.8	1866.1	1866.1	1820.9	1790.8	1764.5	1749.5	1745.7
22.5°	1948.9	1945.1	1952.6	1967.7	1990.2	1997.8	1945.1	1899.9	1858.6	1828.5	1820.9
25°	2065.5	2061.7	2058.0	2080.5	2118.2	2129.4	2073.0	2016.6	1975.2	1960.1	1952.6
27.5°	2189.6	2193.4	2197.2	2219.7	2249.8	2268.6	2212.2	2159.5	2125.7	2103.1	2095.6
30°	2328.8	2336.4	2347.7	2381.5	2404.1	2411.6	2362.7	2325.1	2295.0	2276.2	2264.9
32.5°	2505.7	2520.7	2535.8	2565.9	2577.2	2569.6	2547.1	2520.7	2498.1	2471.8	2468.0
35°	2769.0	2784.1	2780.3	2791.6	2795.4	2787.8	2776.6	2761.5	2750.2	2716.4	2712.6
37.5°	3100.1	3115.2	3092.6	3081.3	3055.0	3058.7	3055.0	3066.2	3070.0	3036.1	3032.4
40°	3434.9	3450.0	3419.9	3389.8	3363.5	3352.2	3371.0	3408.6	3408.6	3386.0	3386.0
42.5°	3792.4	3803.6	3754.7	3717.1	3683.3	3675.7	3687.0	3732.2	3743.5	3739.7	3739.7
45°	4149.8	4142.3	4078.3	4040.7	4010.6	3991.8	3995.5	4029.4	4052.0	4063.2	4063.2
47.5°	4424.4	4413.1	4360.5	4330.4	4311.6	4285.2	4285.2	4304.0	4315.3	4319.1	4319.1
50°	4642.6	4631.3	4578.7	4574.9	4574.9	4563.6	4552.3	4548.6	4541.1	4544.8	4544.8
52.5°	4830.7	4815.7	4778.1	4785.6	4819.5	4827.0	4811.9	4781.8	4751.7	4740.5	4744.2
55°	5033.9	5011.3	4981.2	5003.8	5071.5	5101.6	5079.1	5018.9	4966.2	4932.3	4932.3
57.5°	5195.7	5169.4	5169.4	5233.3	5357.5	5417.7	5368.8	5255.9	5165.6	5128.0	5131.7
60°	5082.8	5060.2	5150.5	5432.7	5666.0	5767.6	5684.8	5485.4	5338.7	5293.5	5301.0
62.5°	4860.8	4845.8	4958.7	5395.1	5944.4	6155.1	6030.9	5745.0	5526.8	5474.1	5474.1
65°	4533.5	4529.8	4687.8	5225.8	6008.3	6527.5	6422.2	6027.1	5745.0	5673.5	5688.5
67.5°	4194.9	4194.9	4337.9	4936.1	5933.1	6685.5	6768.3	6283.0	5850.3	5673.5	5677.3
70°	3596.7	3660.7	4040.7	4669.0	5658.4	6572.7	6911.3	6102.4	5391.3	5079.1	5067.8
72.5°	2370.2	2453.0	3209.2	4202.4	5387.6	6162.6	6237.8	5361.2	4477.1	4112.2	4093.3
75°	1429.7	1501.1	2080.5	3280.7	4736.7	4962.4	4631.3	4202.4	3344.7	3058.7	3058.7
77.5°	421.4	470.3	959.4	2080.5	3276.9	3261.9	2855.6	2475.6	1979.0	1681.7	1704.3
80°	248.3	255.8	312.3	948.1	1358.2	1429.7	1102.3	688.5	688.5	511.7	496.6
82.5°	191.9	191.9	199.4	237.0	327.3	364.9	278.4	237.0	270.9	229.5	218.2
85°	135.4	135.4	135.4	139.2	143.0	146.7	154.3	158.0	173.1	143.0	135.4
87.5°	41.4	45.1	48.9	56.4	67.7	71.5	75.2	67.7	67.7	64.0	60.2
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)