

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: P836350

Luminaire Tested: **ARCH3-170-750-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836350
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: ARCH3-170-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23880 lumens
Efficiency: N/A
Efficacy: 140.0 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

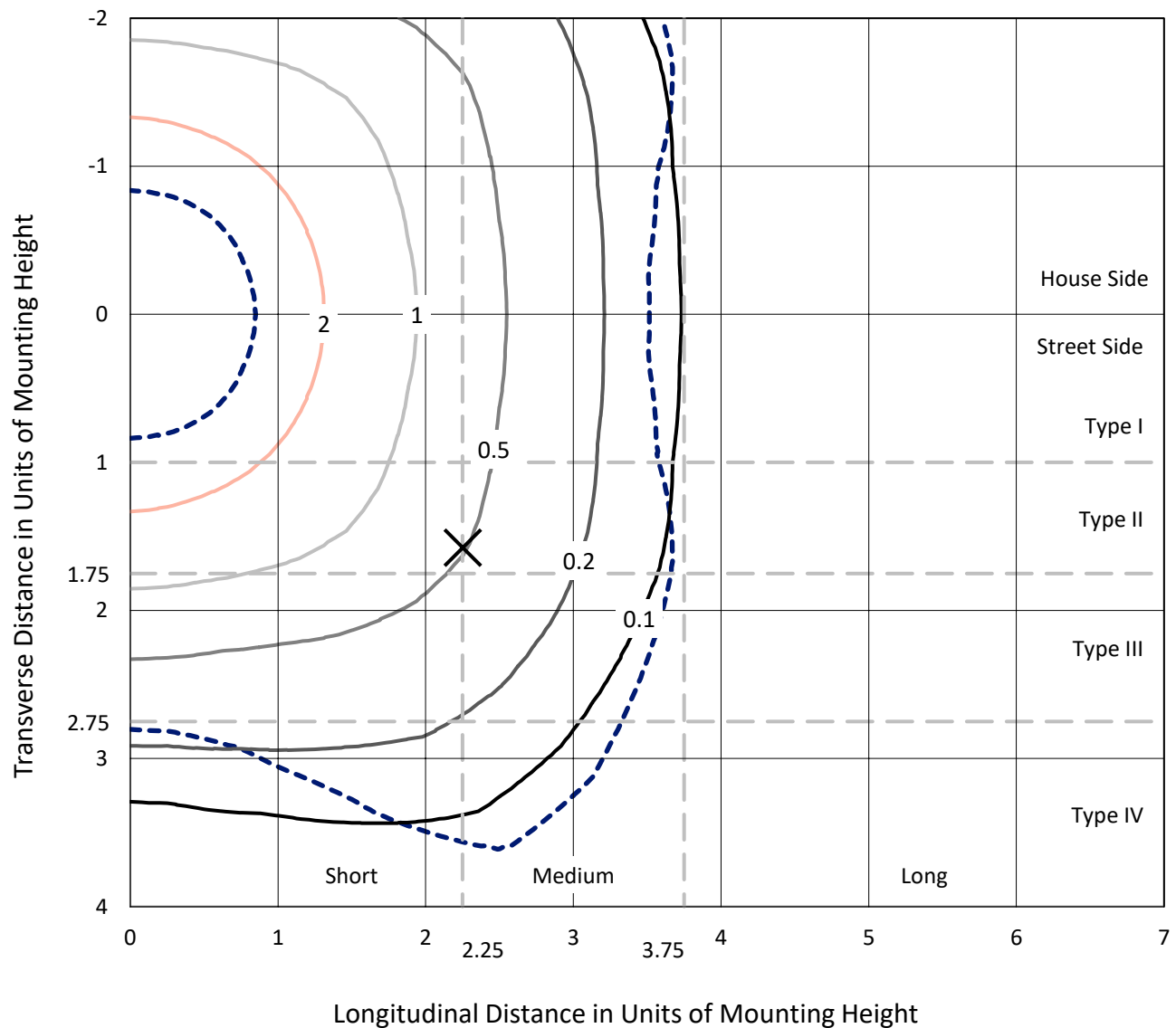
Input Watts (W): 170.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P836350
 CATALOG NUMBER: ARCH3-170-750-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

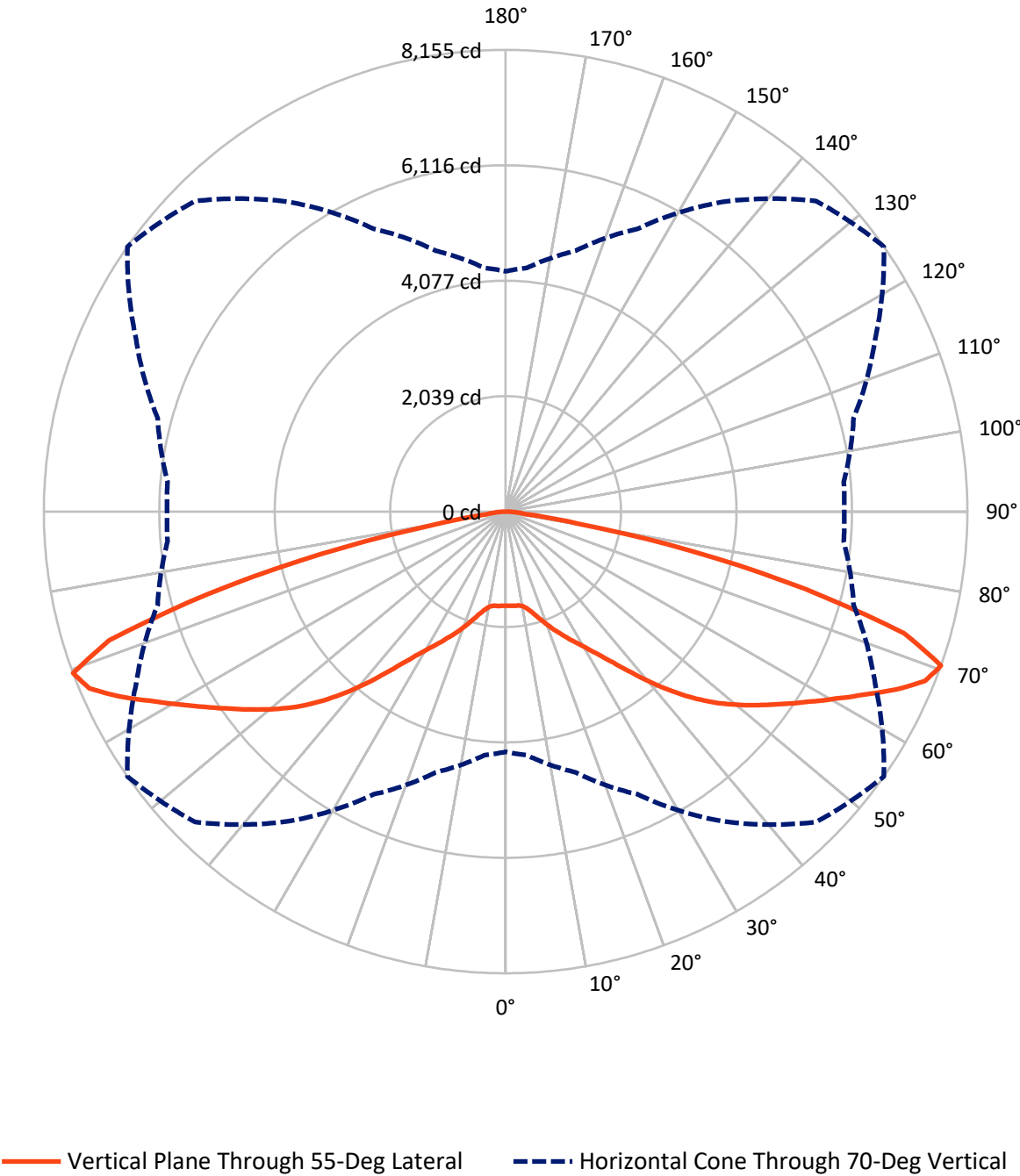
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Medium - N/A

REPORT NUMBER: P836350
CATALOG NUMBER: ARCH3-170-750-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P836350

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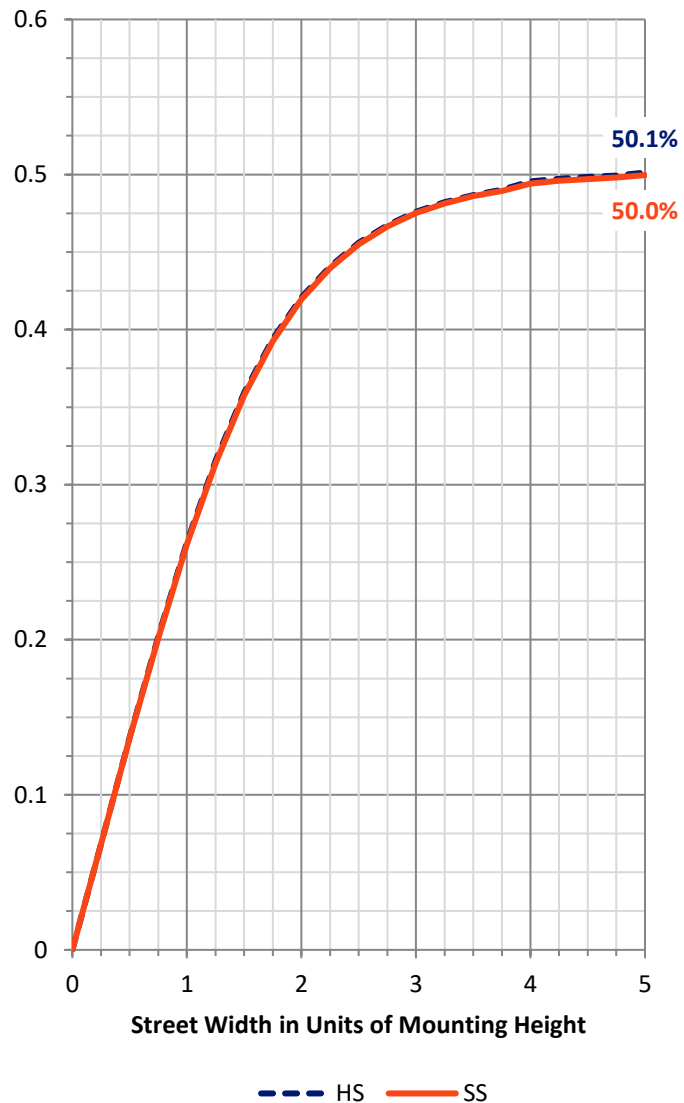
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11940.0	0.0	11940.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11940.0	0.0	11940.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23880.0	0.0	23880.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.7	0.7
10°-20°	546.9	2.3
20°-30°	1136.5	4.8
30°-40°	2099.0	8.8
40°-50°	3687.5	15.4
50°-60°	5318.3	22.3
60°-70°	6509.0	27.3
70°-80°	4141.8	17.3
80°-90°	280.3	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°	23880.0	100.0
0°-180°	23880.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836350

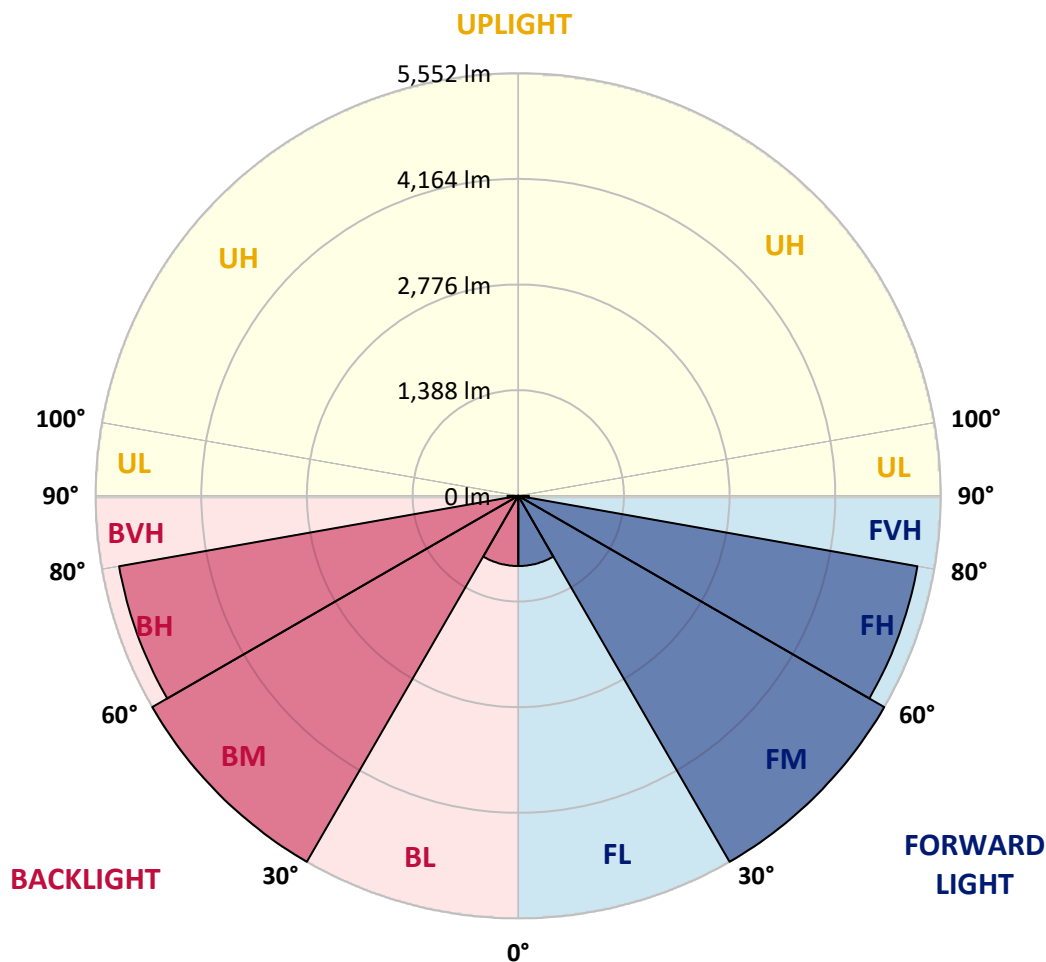
CATALOG NUMBER: ARCH3-170-750-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	922.1	3.9			
FM	(30°-60°)	5552.4	23.3			
FH	(60°-80°)	5325.4	22.3			G3/7500
FVH	(80°-90°)	140.1	0.6			G2/225
BL	(0°-30°)	922.1	3.9	B2/1000		
BM	(30°-60°)	5552.4	23.3	B4/8500		
BH	(60°-80°)	5325.4	22.3	B5		G3/7500
BVH	(80°-90°)	140.1	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: P836350

CATALOG NUMBER: ARCH3-170-750-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7
2.5°	1686.9	1686.9	1682.4	1682.4	1673.5	1669.1	1664.7	1664.7	1660.2	1660.2	1655.8
5°	1695.7	1695.7	1695.7	1691.3	1686.9	1682.4	1673.5	1664.7	1660.2	1655.8	1651.3
7.5°	1700.2	1700.2	1695.7	1695.7	1691.3	1686.9	1673.5	1660.2	1655.8	1651.3	1651.3
10°	1735.7	1731.2	1726.8	1717.9	1717.9	1717.9	1700.2	1686.9	1682.4	1682.4	1682.4
12.5°	1820.0	1815.6	1806.7	1793.4	1793.4	1797.8	1771.2	1753.4	1753.4	1749.0	1749.0
15°	1944.3	1939.9	1931.0	1908.8	1904.4	1913.3	1873.3	1855.5	1855.5	1855.5	1851.1
17.5°	2081.9	2073.1	2059.7	2042.0	2042.0	2042.0	2002.0	1979.8	1966.5	1966.5	1962.1
20°	2197.4	2192.9	2192.9	2188.5	2201.8	2201.8	2148.5	2113.0	2081.9	2064.2	2059.7
22.5°	2299.5	2295.0	2303.9	2321.6	2348.3	2357.2	2295.0	2241.7	2192.9	2157.4	2148.5
25°	2437.1	2432.6	2428.2	2454.8	2499.2	2512.5	2445.9	2379.4	2330.5	2312.8	2303.9
27.5°	2583.6	2588.0	2592.4	2619.1	2654.6	2676.8	2610.2	2548.0	2508.1	2481.5	2472.6
30°	2747.8	2756.7	2770.0	2809.9	2836.6	2845.5	2787.8	2743.4	2707.8	2685.7	2672.3
32.5°	2956.4	2974.2	2992.0	3027.5	3040.8	3031.9	3005.3	2974.2	2947.6	2916.5	2912.0
35°	3267.2	3284.9	3280.5	3293.8	3298.2	3289.4	3276.1	3258.3	3245.0	3205.0	3200.6
37.5°	3657.8	3675.6	3648.9	3635.6	3604.5	3609.0	3604.5	3617.9	3622.3	3582.4	3577.9
40°	4052.9	4070.7	4035.1	3999.6	3968.6	3955.2	3977.4	4021.8	4021.8	3995.2	3995.2
42.5°	4474.6	4487.9	4430.2	4385.8	4345.9	4337.0	4350.3	4403.6	4416.9	4412.5	4412.5
45°	4896.3	4887.4	4812.0	4767.6	4732.1	4709.9	4714.3	4754.3	4780.9	4794.2	4794.2
47.5°	5220.4	5207.1	5144.9	5109.4	5087.2	5056.1	5056.1	5078.3	5091.6	5096.1	5096.1
50°	5477.8	5464.5	5402.4	5397.9	5397.9	5384.6	5371.3	5366.9	5358.0	5362.4	5362.4
52.5°	5699.8	5682.0	5637.7	5646.5	5686.5	5695.4	5677.6	5642.1	5606.6	5593.3	5597.7
55°	5939.5	5912.9	5877.4	5904.0	5983.9	6019.4	5992.8	5921.8	5859.6	5819.7	5819.7
57.5°	6130.4	6099.3	6099.3	6174.8	6321.3	6392.3	6334.6	6201.4	6094.9	6050.5	6054.9
60°	5997.2	5970.6	6077.1	6410.1	6685.3	6805.1	6707.5	6472.2	6299.1	6245.8	6254.7
62.5°	5735.3	5717.6	5850.7	6365.7	7013.8	7262.4	7115.9	6778.5	6521.0	6458.9	6458.9
65°	5349.1	5344.7	5531.1	6165.9	7089.2	7701.8	7577.5	7111.4	6778.5	6694.2	6711.9
67.5°	4949.6	4949.6	5118.3	5824.1	7000.5	7888.3	7985.9	7413.3	6902.8	6694.2	6698.6
70°	4243.8	4319.2	4767.6	5508.9	6676.4	7755.1	8154.6	7200.2	6361.2	5992.8	5979.5
72.5°	2796.6	2894.3	3786.5	4958.5	6356.8	7271.2	7360.0	6325.7	5282.5	4851.9	4829.7
75°	1686.9	1771.2	2454.8	3870.9	5588.8	5855.2	5464.5	4958.5	3946.4	3609.0	3609.0
77.5°	497.2	554.9	1132.0	2454.8	3866.5	3848.7	3369.3	2920.9	2335.0	1984.3	2010.9
80°	293.0	301.9	368.4	1118.7	1602.5	1686.9	1300.7	812.4	812.4	603.7	586.0
82.5°	226.4	226.4	235.3	279.7	386.2	430.6	328.5	279.7	319.6	270.8	257.5
85°	159.8	159.8	159.8	164.2	168.7	173.1	182.0	186.4	204.2	168.7	159.8
87.5°	48.8	53.3	57.7	66.6	79.9	84.3	88.8	79.9	79.9	75.5	71.0
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)