

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: P835846

Luminaire Tested: **ARCH3-100-750-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835846
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: ARCH3-100-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16343 lumens
Efficiency: N/A
Efficacy: 159.3 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): 102.6
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

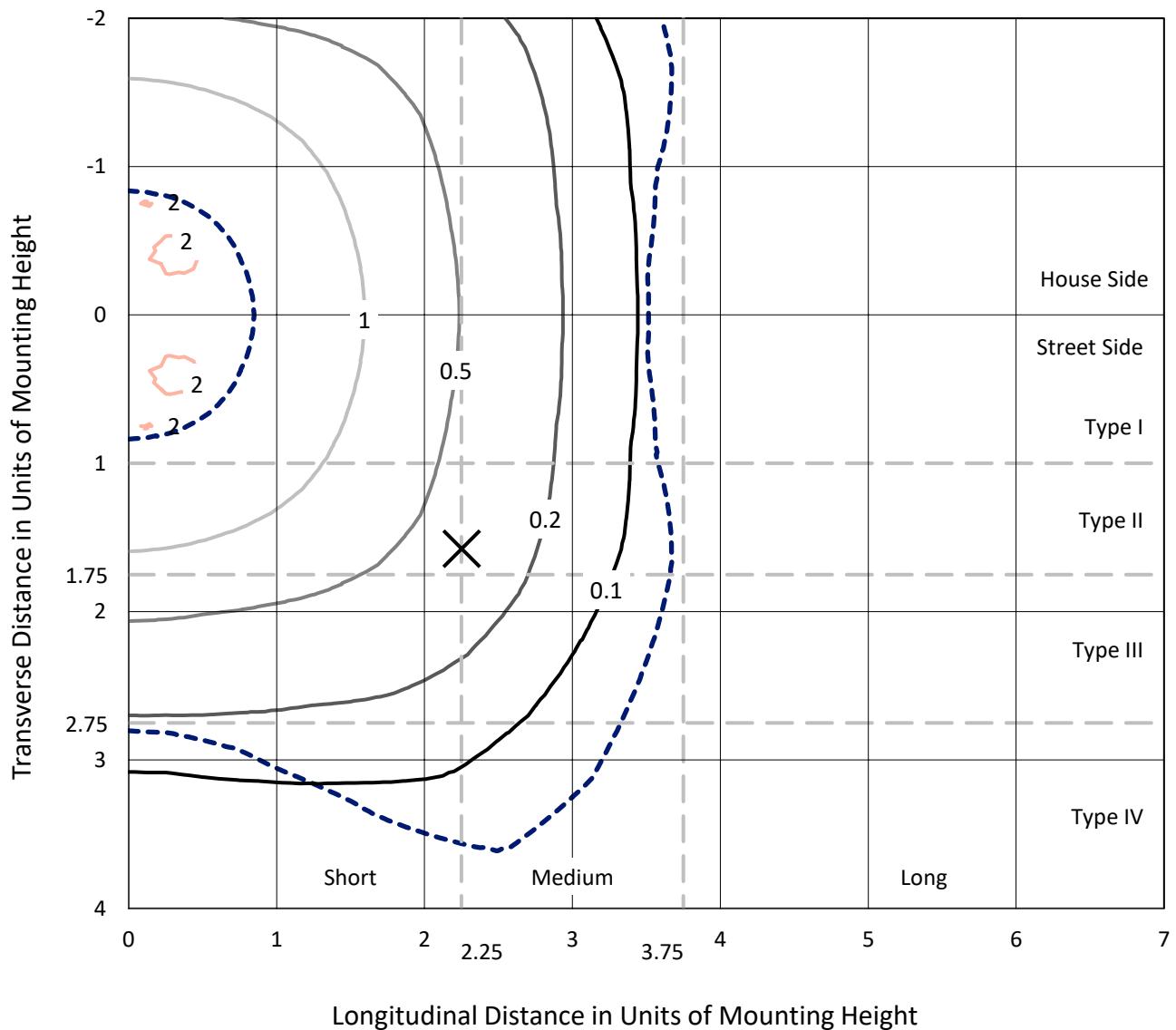


REPORT NUMBER: P835846

CATALOG NUMBER: ARCH3-100-750-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

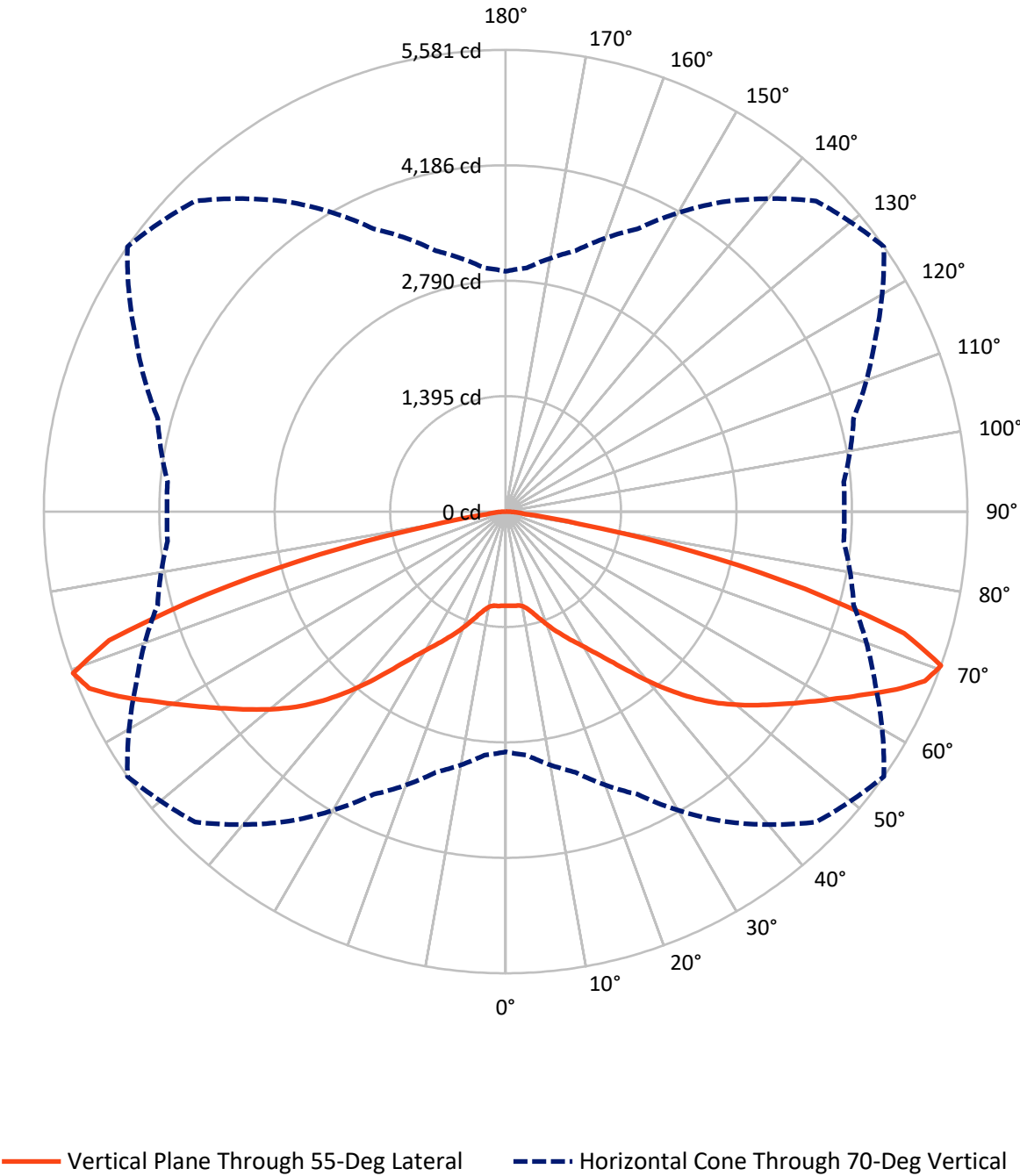
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type V - Medium - N/A

REPORT NUMBER: P835846
CATALOG NUMBER: ARCH3-100-750-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P835846

CATALOG NUMBER: ARCH3-100-750-U-5WQ

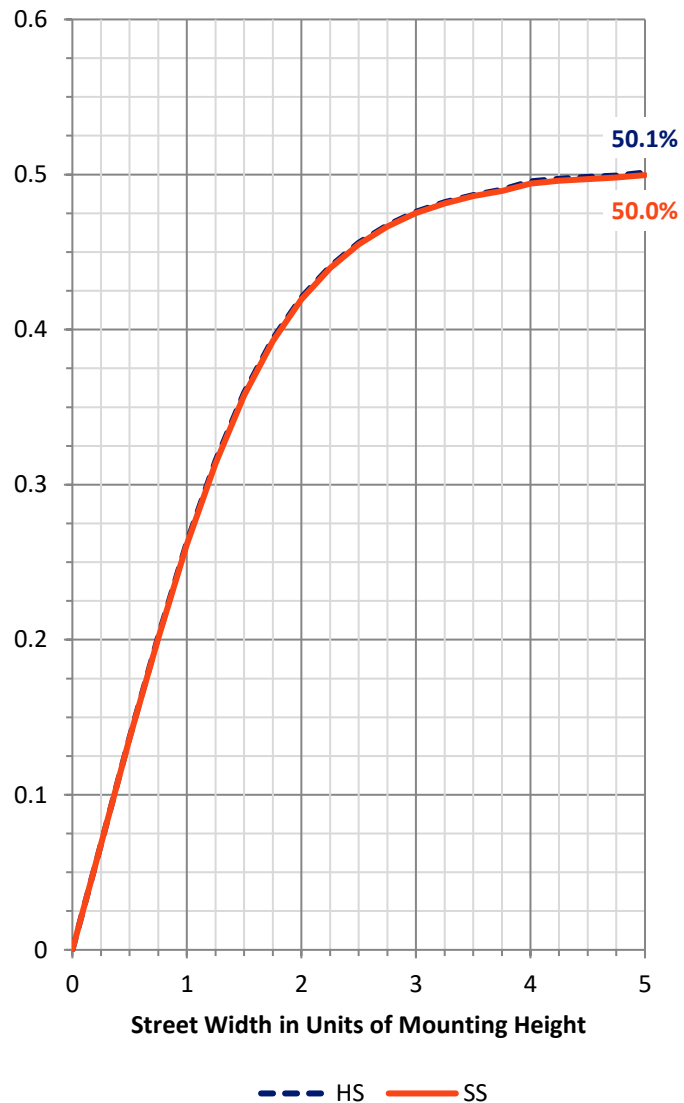
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8171.5	0.0	8171.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8171.5	0.0	8171.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16343.0	0.0	16343.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	0.7
10°-20°	374.3	2.3
20°-30°	777.8	4.8
30°-40°	1436.5	8.8
40°-50°	2523.7	15.4
50°-60°	3639.7	22.3
60°-70°	4454.6	27.3
70°-80°	2834.6	17.3
80°-90°	191.8	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°	16343.0	100.0
0°-180°	16343.0	100.0

Coefficient of Utilization



REPORT NUMBER: P835846

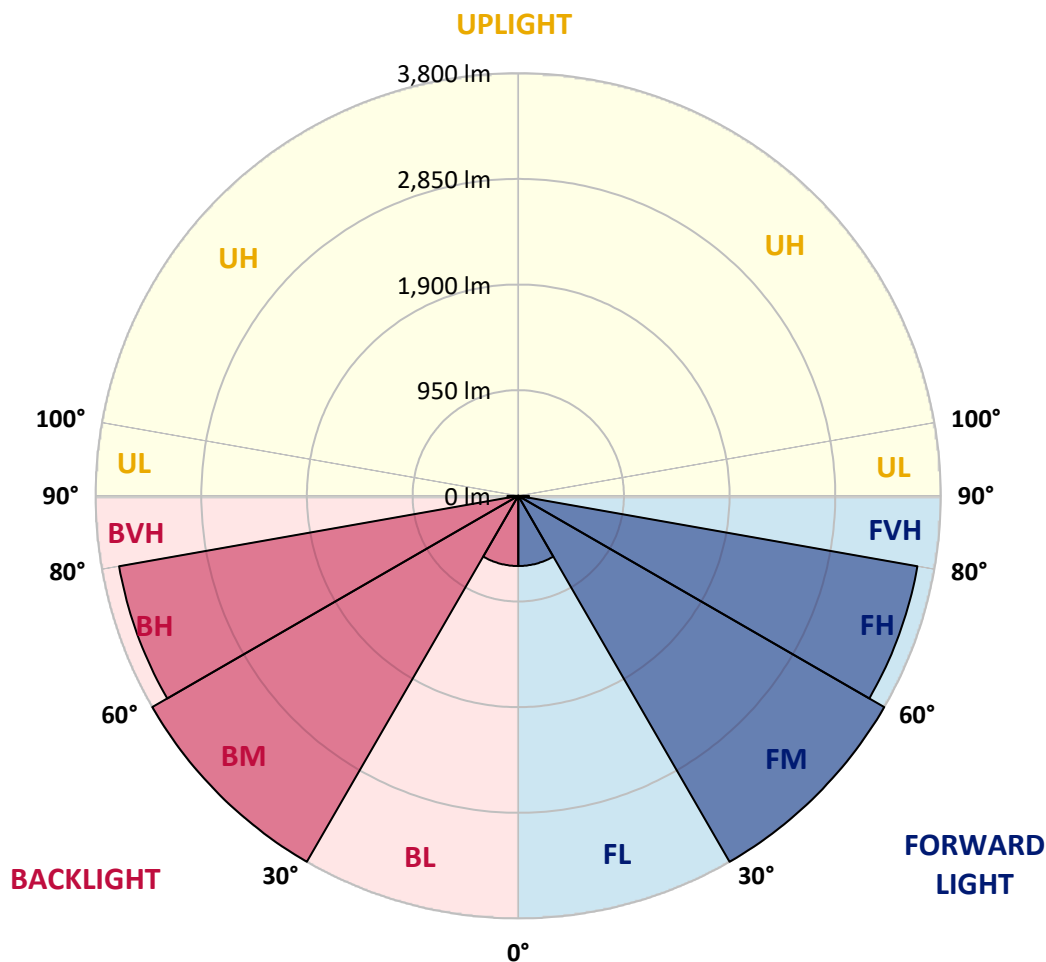
CATALOG NUMBER: ARCH3-100-750-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	631.0	3.9			
FM	(30°-60°)	3800.0	23.3			
FH	(60°-80°)	3644.6	22.3			G2/5000
FVH	(80°-90°)	95.9	0.6			G1/100
BL	(0°-30°)	631.0	3.9	B2/1000		
BM	(30°-60°)	3800.0	23.3	B3/5000		
BH	(60°-80°)	3644.6	22.3	B4/5000		G2/5000
BVH	(80°-90°)	95.9	0.6			G1/100
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: P835846

CATALOG NUMBER: ARCH3-100-750-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1139.3	1139.3	1139.3	1139.3	1139.3	1139.3	1139.3	1139.3	1139.3	1139.3	1139.3
2.5°	1154.5	1154.5	1151.4	1151.4	1145.3	1142.3	1139.3	1139.3	1136.2	1136.2	1133.2
5°	1160.5	1160.5	1160.5	1157.5	1154.5	1151.4	1145.3	1139.3	1136.2	1133.2	1130.1
7.5°	1163.6	1163.6	1160.5	1160.5	1157.5	1154.5	1145.3	1136.2	1133.2	1130.1	1130.1
10°	1187.9	1184.8	1181.8	1175.7	1175.7	1175.7	1163.6	1154.5	1151.4	1151.4	1151.4
12.5°	1245.6	1242.6	1236.5	1227.4	1227.4	1230.4	1212.2	1200.0	1200.0	1197.0	1197.0
15°	1330.7	1327.6	1321.5	1306.4	1303.3	1309.4	1282.0	1269.9	1269.9	1269.9	1266.9
17.5°	1424.8	1418.8	1409.6	1397.5	1397.5	1397.5	1370.2	1355.0	1345.8	1345.8	1342.8
20°	1503.8	1500.8	1500.8	1497.7	1506.9	1506.9	1470.4	1446.1	1424.8	1412.7	1409.6
22.5°	1573.7	1570.7	1576.7	1588.9	1607.1	1613.2	1570.7	1534.2	1500.8	1476.5	1470.4
25°	1667.9	1664.8	1661.8	1680.0	1710.4	1719.5	1674.0	1628.4	1595.0	1582.8	1576.7
27.5°	1768.1	1771.2	1774.2	1792.4	1816.7	1831.9	1786.4	1743.8	1716.5	1698.3	1692.2
30°	1880.5	1886.6	1895.7	1923.1	1941.3	1947.4	1907.9	1877.5	1853.2	1838.0	1828.9
32.5°	2023.3	2035.5	2047.6	2071.9	2081.1	2075.0	2056.7	2035.5	2017.3	1996.0	1992.9
35°	2236.0	2248.1	2245.1	2254.2	2257.3	2251.2	2242.1	2229.9	2220.8	2193.5	2190.4
37.5°	2503.3	2515.5	2497.3	2488.1	2466.9	2469.9	2466.9	2476.0	2479.0	2451.7	2448.7
40°	2773.7	2785.9	2761.6	2737.3	2716.0	2706.9	2722.1	2752.5	2752.5	2734.2	2734.2
42.5°	3062.3	3071.4	3032.0	3001.6	2974.2	2968.2	2977.3	3013.7	3022.8	3019.8	3019.8
45°	3350.9	3344.9	3293.2	3262.8	3238.5	3223.3	3226.4	3253.7	3272.0	3281.1	3281.1
47.5°	3572.7	3563.6	3521.1	3496.8	3481.6	3460.3	3460.3	3475.5	3484.6	3487.7	3487.7
50°	3748.9	3739.8	3697.3	3694.2	3694.2	3685.1	3676.0	3673.0	3666.9	3669.9	3669.9
52.5°	3900.8	3888.7	3858.3	3864.4	3891.7	3897.8	3885.6	3861.3	3837.0	3827.9	3831.0
55°	4064.9	4046.7	4022.4	4040.6	4095.3	4119.6	4101.3	4052.7	4010.2	3982.9	3982.9
57.5°	4195.5	4174.3	4174.3	4225.9	4326.2	4374.8	4335.3	4244.1	4171.2	4140.8	4143.9
60°	4104.4	4086.2	4159.1	4386.9	4575.3	4657.3	4590.5	4429.4	4311.0	4274.5	4280.6
62.5°	3925.1	3913.0	4004.1	4356.5	4800.1	4970.2	4870.0	4639.1	4462.9	4420.3	4420.3
65°	3660.8	3657.8	3785.4	4219.8	4851.7	5271.0	5185.9	4866.9	4639.1	4581.3	4593.5
67.5°	3387.4	3387.4	3502.8	3985.9	4791.0	5398.6	5465.4	5073.5	4724.1	4581.3	4584.4
70°	2904.4	2956.0	3262.8	3770.2	4569.2	5307.4	5580.9	4927.7	4353.5	4101.3	4092.2
72.5°	1914.0	1980.8	2591.4	3393.5	4350.5	4976.3	5037.1	4329.2	3615.3	3320.6	3305.4
75°	1154.5	1212.2	1680.0	2649.2	3824.9	4007.2	3739.8	3393.5	2700.8	2469.9	2469.9
77.5°	340.3	379.8	774.7	1680.0	2646.1	2634.0	2305.9	1999.0	1598.0	1358.0	1376.2
80°	200.5	206.6	252.2	765.6	1096.7	1154.5	890.1	556.0	556.0	413.2	401.0
82.5°	154.9	154.9	161.0	191.4	264.3	294.7	224.8	191.4	218.7	185.3	176.2
85°	109.4	109.4	109.4	112.4	115.4	118.5	124.6	127.6	139.7	115.4	109.4
87.5°	33.4	36.5	39.5	45.6	54.7	57.7	60.8	54.7	54.7	51.6	48.6
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)