

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: P840865

Luminaire Tested: **ARCH4-100-727-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840865
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: ARCH4-100-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16652 lumens
Efficiency: N/A
Efficacy: 161.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 103.1
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

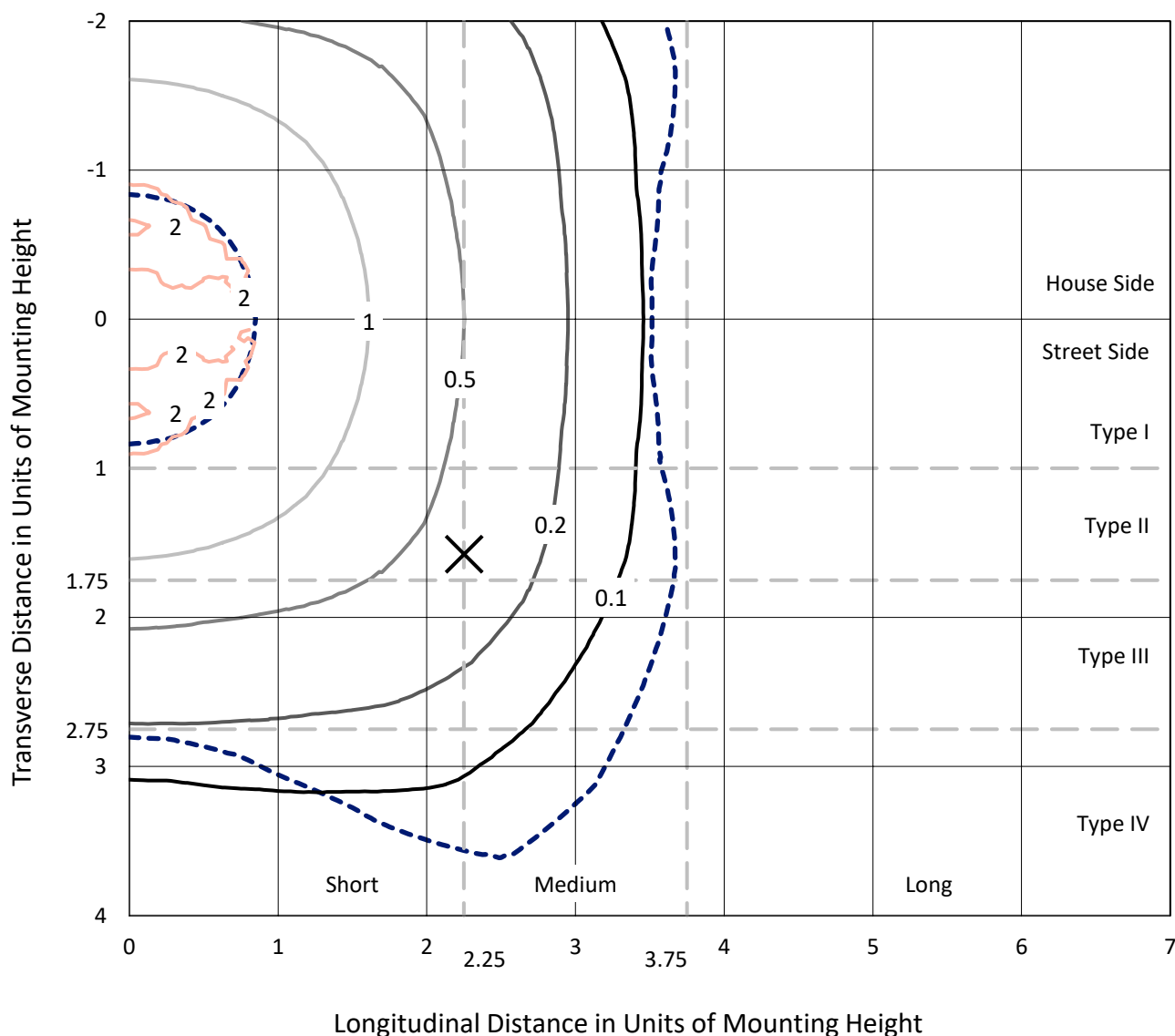


REPORT NUMBER: P840865

CATALOG NUMBER: ARCH4-100-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

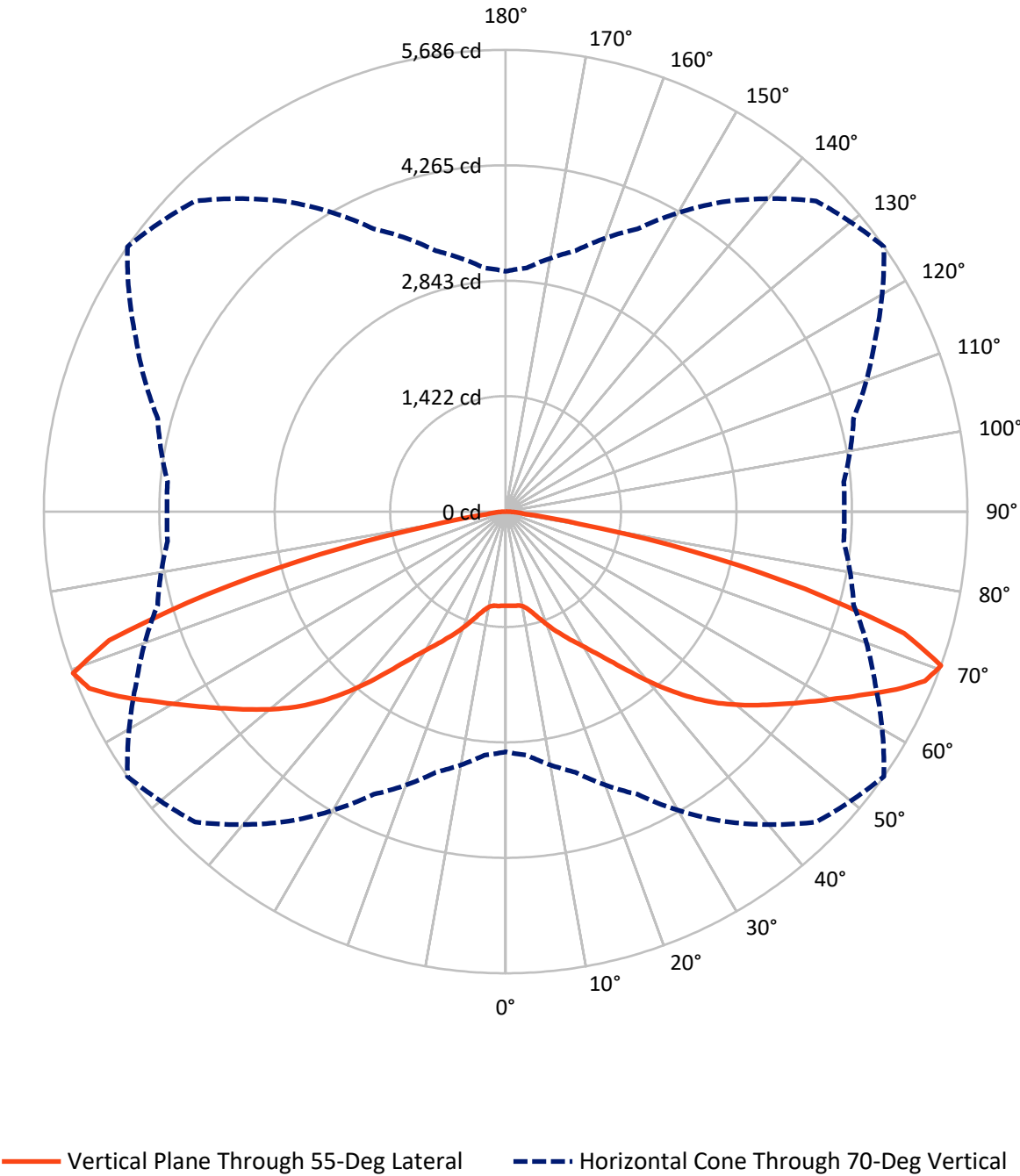
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Medium - N/A

REPORT NUMBER: P840865
CATALOG NUMBER: ARCH4-100-727-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P840865

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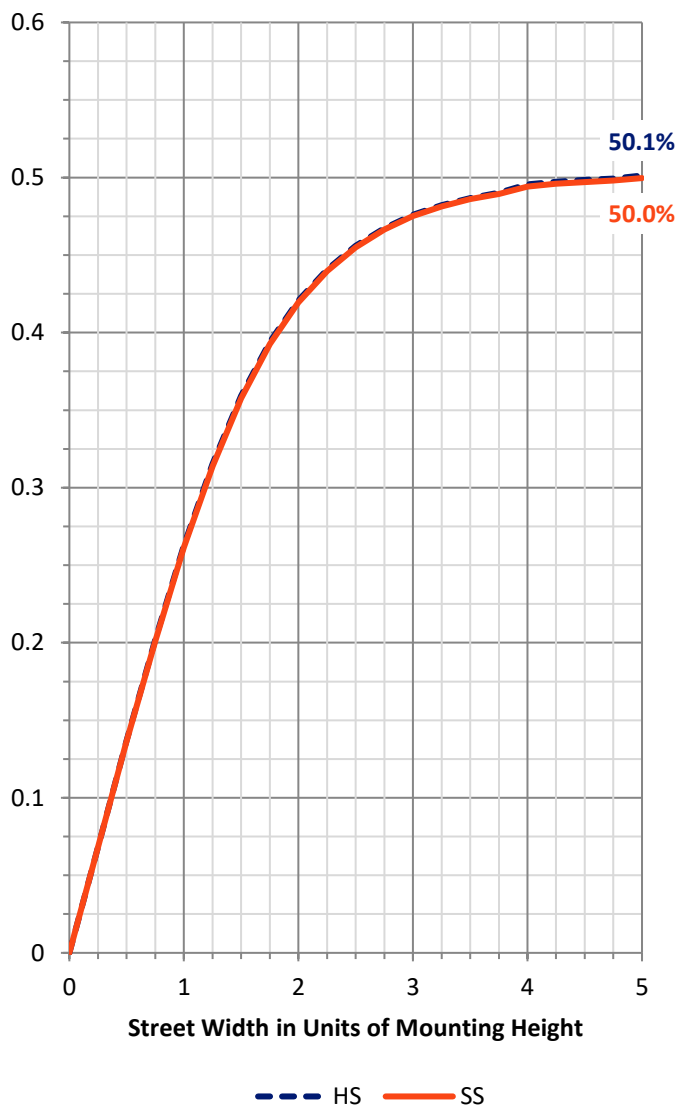
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8326.0	0.0	8326.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8326.0	0.0	8326.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16652.0	0.0	16652.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	0.7
10°-20°	381.4	2.3
20°-30°	792.5	4.8
30°-40°	1463.7	8.8
40°-50°	2571.4	15.4
50°-60°	3708.5	22.3
60°-70°	4538.9	27.3
70°-80°	2888.2	17.3
80°-90°	195.4	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°	16652.0	100.0
0°-180°	16652.0	100.0

Coefficient of Utilization



REPORT NUMBER: P840865

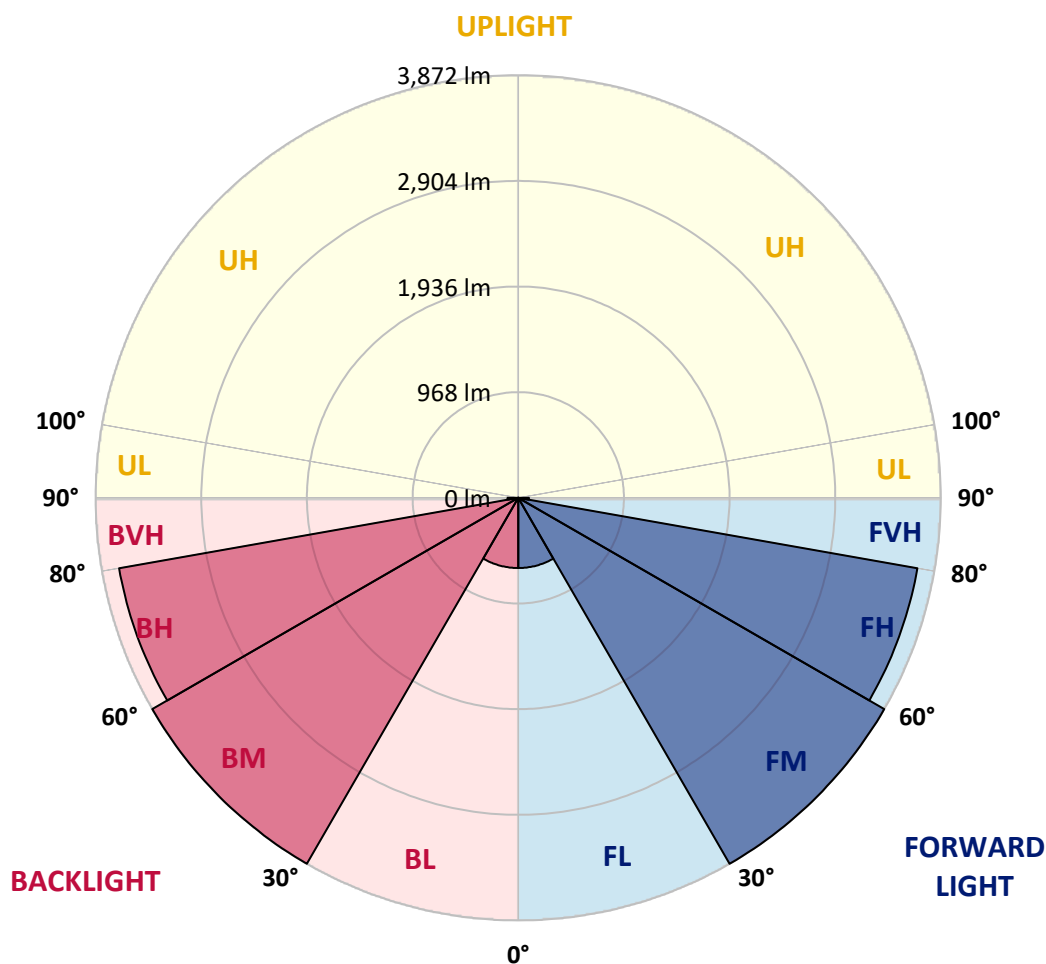
CATALOG NUMBER: ARCH4-100-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	643.0	3.9			
FM	(30°-60°)	3871.8	23.3			
FH	(60°-80°)	3713.5	22.3			G2/5000
FVH	(80°-90°)	97.7	0.6			G1/100
BL	(0°-30°)	643.0	3.9	B2/1000		
BM	(30°-60°)	3871.8	23.3	B3/5000		
BH	(60°-80°)	3713.5	22.3	B4/5000		G2/5000
BVH	(80°-90°)	97.7	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: P840865

CATALOG NUMBER: ARCH4-100-727-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8	1160.8
2.5°	1176.3	1176.3	1173.2	1173.2	1167.0	1163.9	1160.8	1160.8	1157.7	1157.7	1154.6
5°	1182.5	1182.5	1182.5	1179.4	1176.3	1173.2	1167.0	1160.8	1157.7	1154.6	1151.5
7.5°	1185.6	1185.6	1182.5	1182.5	1179.4	1176.3	1167.0	1157.7	1154.6	1151.5	1151.5
10°	1210.3	1207.2	1204.1	1197.9	1197.9	1197.9	1185.6	1176.3	1173.2	1173.2	1173.2
12.5°	1269.1	1266.0	1259.9	1250.6	1250.6	1253.7	1235.1	1222.7	1222.7	1219.6	1219.6
15°	1355.8	1352.7	1346.5	1331.1	1328.0	1334.1	1306.3	1293.9	1293.9	1293.9	1290.8
17.5°	1451.8	1445.6	1436.3	1423.9	1423.9	1423.9	1396.1	1380.6	1371.3	1371.3	1368.2
20°	1532.3	1529.2	1529.2	1526.1	1535.4	1535.4	1498.2	1473.4	1451.8	1439.4	1436.3
22.5°	1603.5	1600.4	1606.5	1618.9	1637.5	1643.7	1600.4	1563.2	1529.2	1504.4	1498.2
25°	1699.4	1696.3	1693.2	1711.8	1742.7	1752.0	1705.6	1659.2	1625.1	1612.7	1606.5
27.5°	1801.6	1804.7	1807.8	1826.3	1851.1	1866.6	1820.1	1776.8	1748.9	1730.4	1724.2
30°	1916.1	1922.3	1931.6	1959.4	1978.0	1984.2	1944.0	1913.0	1888.2	1872.8	1863.5
32.5°	2061.6	2074.0	2086.3	2111.1	2120.4	2114.2	2095.6	2074.0	2055.4	2033.7	2030.6
35°	2278.3	2290.6	2287.6	2296.8	2299.9	2293.7	2284.5	2272.1	2262.8	2234.9	2231.8
37.5°	2550.7	2563.0	2544.5	2535.2	2513.5	2516.6	2513.5	2522.8	2525.9	2498.0	2494.9
40°	2826.2	2838.5	2813.8	2789.0	2767.4	2758.1	2773.5	2804.5	2804.5	2785.9	2785.9
42.5°	3120.2	3129.5	3089.3	3058.3	3030.5	3024.3	3033.6	3070.7	3080.0	3076.9	3076.9
45°	3414.3	3408.1	3355.5	3324.5	3299.8	3284.3	3287.4	3315.2	3333.8	3343.1	3343.1
47.5°	3640.3	3631.0	3587.7	3562.9	3547.4	3525.7	3525.7	3541.2	3550.5	3553.6	3553.6
50°	3819.8	3810.5	3767.2	3764.1	3764.1	3754.8	3745.5	3742.4	3736.2	3739.3	3739.3
52.5°	3974.6	3962.2	3931.2	3937.4	3965.3	3971.5	3959.1	3934.3	3909.6	3900.3	3903.4
55°	4141.7	4123.2	4098.4	4117.0	4172.7	4197.5	4178.9	4129.4	4086.0	4058.2	4058.2
57.5°	4274.8	4253.2	4253.2	4305.8	4408.0	4457.5	4417.2	4324.4	4250.1	4219.1	4222.2
60°	4182.0	4163.4	4237.7	4469.9	4661.8	4745.4	4677.3	4513.2	4392.5	4355.3	4361.5
62.5°	3999.3	3987.0	4079.8	4438.9	4890.8	5064.2	4962.0	4726.8	4547.2	4503.9	4503.9
65°	3730.0	3726.9	3857.0	4299.6	4943.5	5370.6	5284.0	4958.9	4726.8	4668.0	4680.4
67.5°	3451.4	3451.4	3569.1	4061.3	4881.6	5500.7	5568.8	5169.4	4813.5	4668.0	4671.1
70°	2959.3	3011.9	3324.5	3841.5	4655.6	5407.8	5686.4	5020.9	4435.8	4178.9	4169.6
72.5°	1950.1	2018.2	2640.4	3457.6	4432.7	5070.4	5132.3	4411.0	3683.6	3383.3	3367.9
75°	1176.3	1235.1	1711.8	2699.3	3897.2	4082.9	3810.5	3457.6	2751.9	2516.6	2516.6
77.5°	346.7	386.9	789.3	1711.8	2696.2	2683.8	2349.5	2036.8	1628.2	1383.7	1402.2
80°	204.3	210.5	256.9	780.1	1117.5	1176.3	907.0	566.5	566.5	421.0	408.6
82.5°	157.9	157.9	164.1	195.0	269.3	300.3	229.1	195.0	222.9	188.8	179.5
85°	111.4	111.4	111.4	114.5	117.6	120.7	126.9	130.0	142.4	117.6	111.4
87.5°	34.1	37.1	40.2	46.4	55.7	58.8	61.9	55.7	55.7	52.6	49.5
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)