

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: P841036

Luminaire Tested: **ARCH4-120-740-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841036
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: ARCH4-120-740-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21169 lumens
Efficiency: N/A
Efficacy: 173.5 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): 122
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

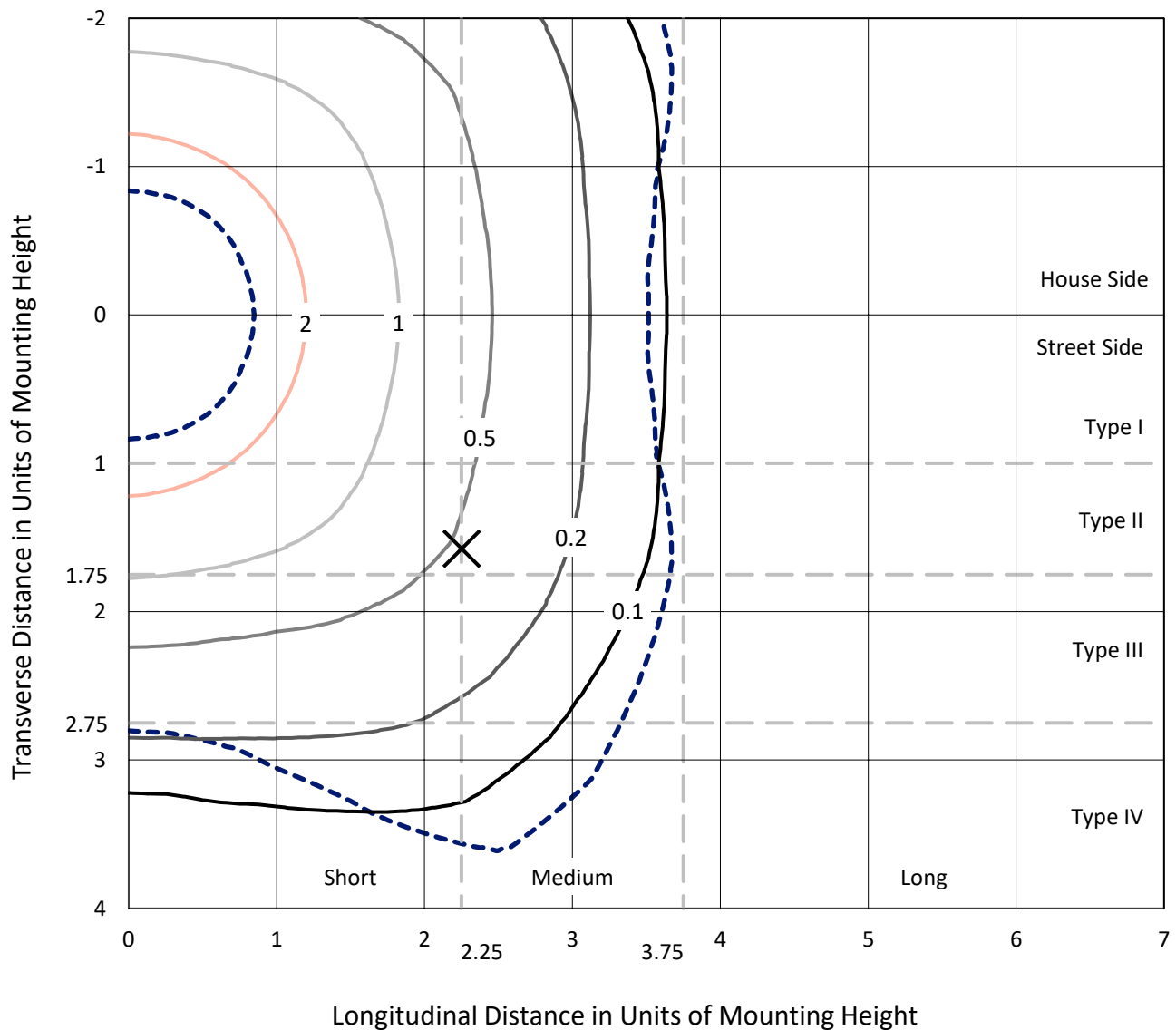


REPORT NUMBER: P841036

CATALOG NUMBER: ARCH4-120-740-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

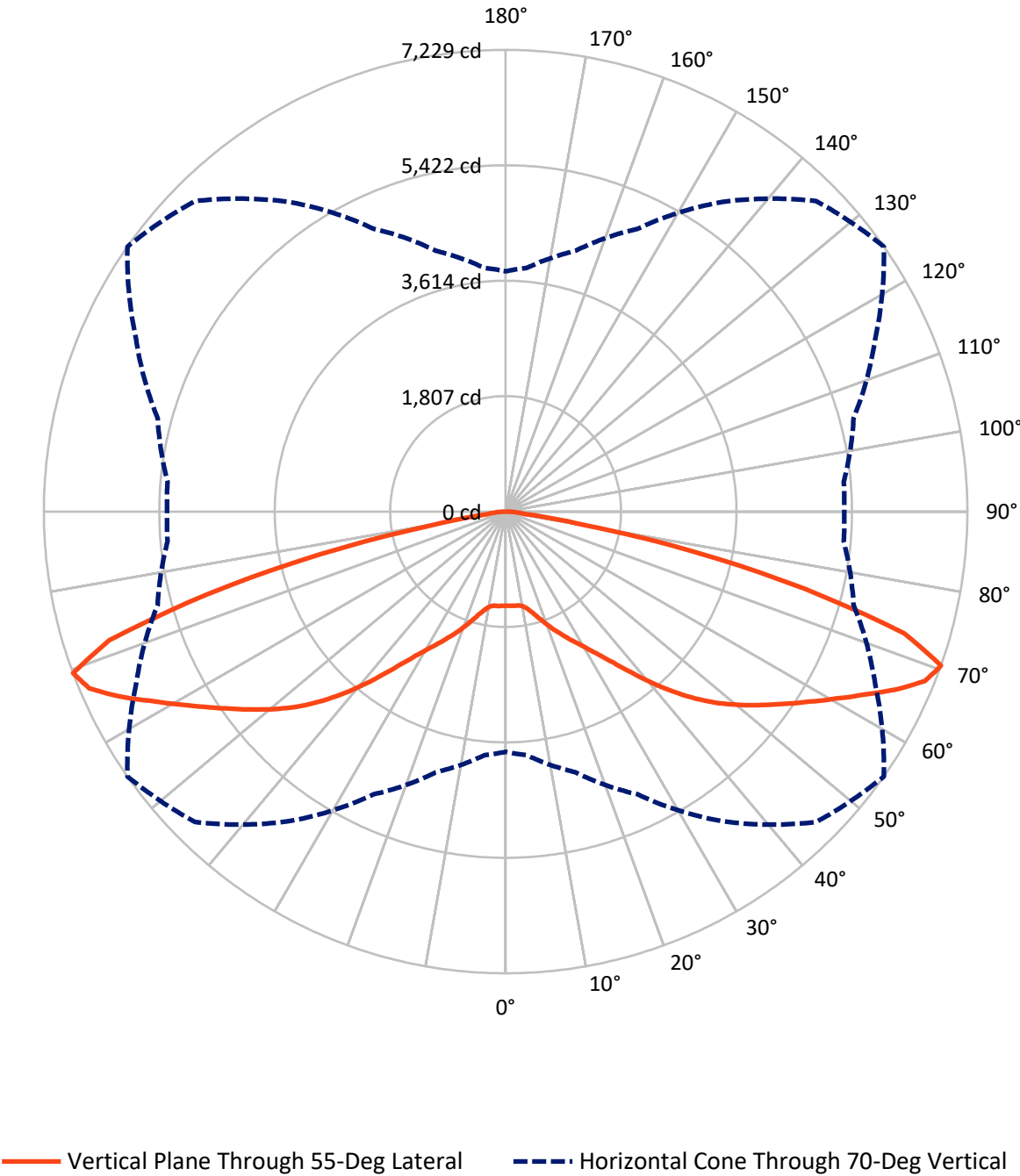
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type V - Medium - N/A

REPORT NUMBER: P841036
CATALOG NUMBER: ARCH4-120-740-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P841036

CATALOG NUMBER: ARCH4-120-740-U-5WQ

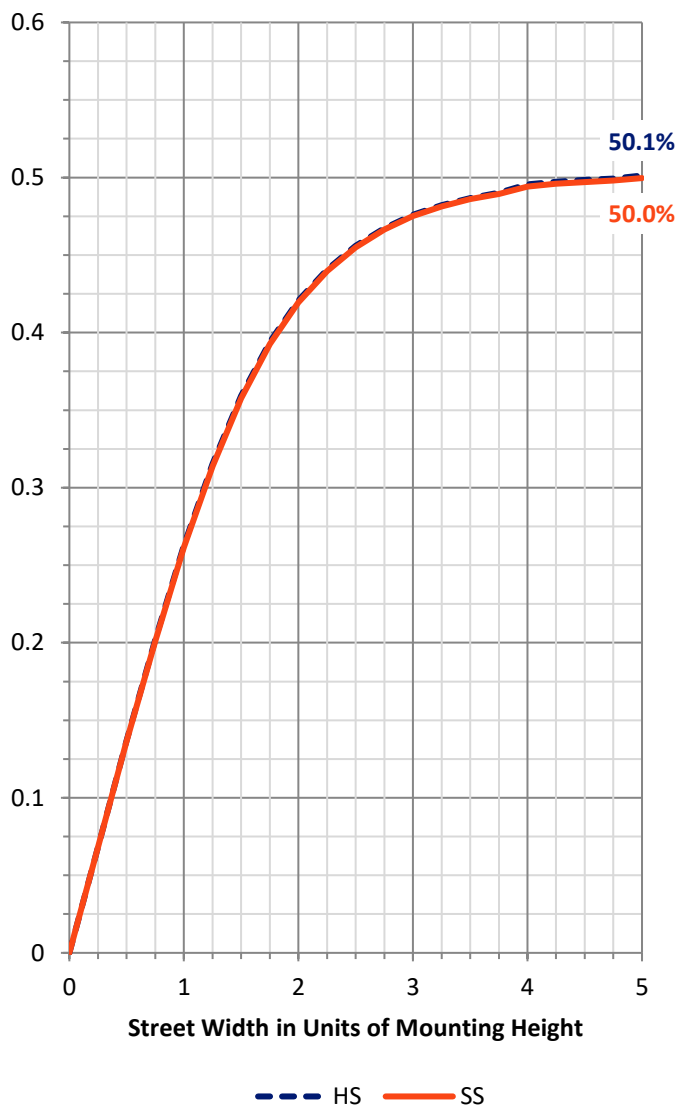
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10584.5	0.0	10584.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10584.5	0.0	10584.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21169.0	0.0	21169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	0.7
10°-20°	484.9	2.3
20°-30°	1007.5	4.8
30°-40°	1860.7	8.8
40°-50°	3268.9	15.4
50°-60°	4714.5	22.3
60°-70°	5770.0	27.3
70°-80°	3671.6	17.3
80°-90°	248.4	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°	21169.0	100.0
0°-180°	21169.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841036

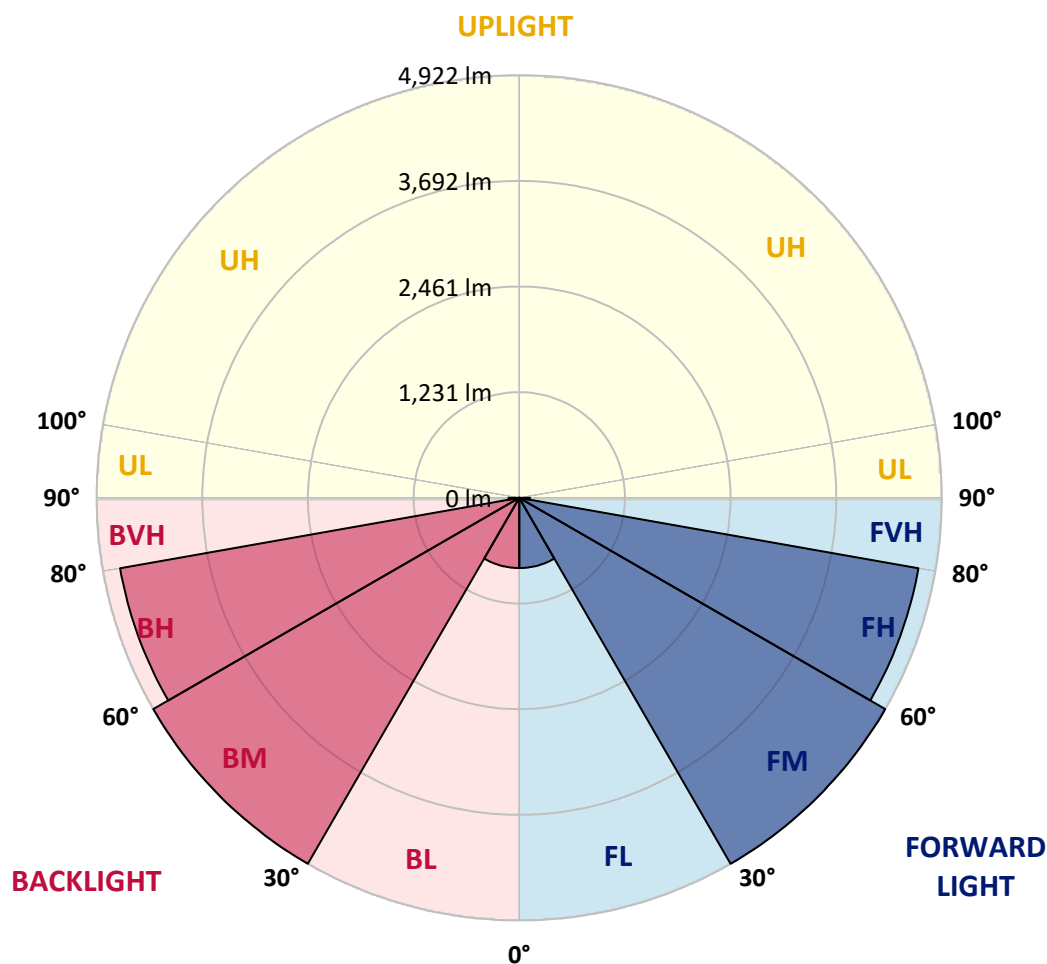
CATALOG NUMBER: ARCH4-120-740-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	817.4	3.9			
FM	(30°-60°)	4922.1	23.3			
FH	(60°-80°)	4720.8	22.3			G2/5000
FVH	(80°-90°)	124.2	0.6			G2/225
BL	(0°-30°)	817.4	3.9	B2/1000		
BM	(30°-60°)	4922.1	23.3	B3/5000		
BH	(60°-80°)	4720.8	22.3	B4/5000		G2/5000
BVH	(80°-90°)	124.2	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: P841036

CATALOG NUMBER: ARCH4-120-740-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1475.7	1475.7	1475.7	1475.7	1475.7	1475.7	1475.7	1475.7	1475.7	1475.7	1475.7
2.5°	1495.4	1495.4	1491.4	1491.4	1483.5	1479.6	1475.7	1475.7	1471.7	1471.7	1467.8
5°	1503.2	1503.2	1503.2	1499.3	1495.4	1491.4	1483.5	1475.7	1471.7	1467.8	1463.9
7.5°	1507.2	1507.2	1503.2	1503.2	1499.3	1495.4	1483.5	1471.7	1467.8	1463.9	1463.9
10°	1538.6	1534.7	1530.8	1522.9	1522.9	1522.9	1507.2	1495.4	1491.4	1491.4	1491.4
12.5°	1613.4	1609.5	1601.6	1589.8	1589.8	1593.7	1570.1	1554.4	1554.4	1550.4	1550.4
15°	1723.6	1719.7	1711.8	1692.1	1688.2	1696.0	1660.6	1644.9	1644.9	1644.9	1641.0
17.5°	1845.6	1837.7	1825.9	1810.2	1810.2	1810.2	1774.7	1755.1	1743.3	1743.3	1739.3
20°	1947.9	1944.0	1944.0	1940.0	1951.8	1951.8	1904.6	1873.1	1845.6	1829.8	1825.9
22.5°	2038.4	2034.5	2042.3	2058.1	2081.7	2089.6	2034.5	1987.2	1944.0	1912.5	1904.6
25°	2160.4	2156.5	2152.5	2176.1	2215.5	2227.3	2168.3	2109.2	2066.0	2050.2	2042.3
27.5°	2290.3	2294.2	2298.1	2321.7	2353.2	2372.9	2313.9	2258.8	2223.4	2199.7	2191.9
30°	2435.9	2443.7	2455.5	2490.9	2514.6	2522.4	2471.3	2431.9	2400.4	2380.8	2369.0
32.5°	2620.8	2636.5	2652.3	2683.8	2695.6	2687.7	2664.1	2636.5	2612.9	2585.4	2581.5
35°	2896.3	2912.0	2908.1	2919.9	2923.8	2915.9	2904.1	2888.4	2876.6	2841.2	2837.2
37.5°	3242.6	3258.3	3234.7	3222.9	3195.3	3199.3	3195.3	3207.1	3211.1	3175.7	3171.7
40°	3592.8	3608.5	3577.0	3545.6	3518.0	3506.2	3525.9	3565.2	3565.2	3541.6	3541.6
42.5°	3966.6	3978.4	3927.3	3887.9	3852.5	3844.6	3856.4	3903.7	3915.5	3911.5	3911.5
45°	4340.5	4332.6	4265.7	4226.3	4194.9	4175.2	4179.1	4214.5	4238.2	4250.0	4250.0
47.5°	4627.7	4615.9	4560.8	4529.4	4509.7	4482.1	4482.1	4501.8	4513.6	4517.5	4517.5
50°	4856.0	4844.2	4789.1	4785.1	4785.1	4773.3	4761.5	4757.6	4749.7	4753.7	4753.7
52.5°	5052.7	5037.0	4997.6	5005.5	5040.9	5048.8	5033.0	5001.6	4970.1	4958.3	4962.2
55°	5265.2	5241.6	5210.1	5233.7	5304.6	5336.1	5312.4	5249.5	5194.4	5159.0	5159.0
57.5°	5434.4	5406.9	5406.9	5473.8	5603.6	5666.6	5615.5	5497.4	5403.0	5363.6	5367.5
60°	5316.4	5292.8	5387.2	5682.3	5926.3	6032.6	5946.0	5737.4	5584.0	5536.7	5544.6
62.5°	5084.2	5068.5	5186.5	5643.0	6217.5	6437.9	6308.0	6009.0	5780.7	5725.6	5725.6
65°	4741.8	4737.9	4903.2	5465.9	6284.4	6827.5	6717.3	6304.1	6009.0	5934.2	5949.9
67.5°	4387.7	4387.7	4537.2	5162.9	6205.7	6992.8	7079.3	6571.7	6119.1	5934.2	5938.1
70°	3762.0	3828.9	4226.3	4883.5	5918.5	6874.7	7228.9	6382.8	5639.1	5312.4	5300.6
72.5°	2479.1	2565.7	3356.7	4395.6	5635.1	6445.8	6524.5	5607.6	4682.8	4301.1	4281.4
75°	1495.4	1570.1	2176.1	3431.4	4954.3	5190.5	4844.2	4395.6	3498.3	3199.3	3199.3
77.5°	440.7	491.9	1003.5	2176.1	3427.5	3411.8	2986.8	2589.3	2069.9	1759.0	1782.6
80°	259.7	267.6	326.6	991.7	1420.6	1495.4	1153.0	720.1	720.1	535.2	519.4
82.5°	200.7	200.7	208.6	247.9	342.4	381.7	291.2	247.9	283.3	240.0	228.2
85°	141.7	141.7	141.7	145.6	149.5	153.5	161.3	165.3	181.0	149.5	141.7
87.5°	43.3	47.2	51.2	59.0	70.8	74.8	78.7	70.8	70.8	66.9	63.0
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)