

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: P840874

Luminaire Tested: **ARCH4-100-730-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840874
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: ARCH4-100-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17256 lumens
Efficiency: N/A
Efficacy: 167.4 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

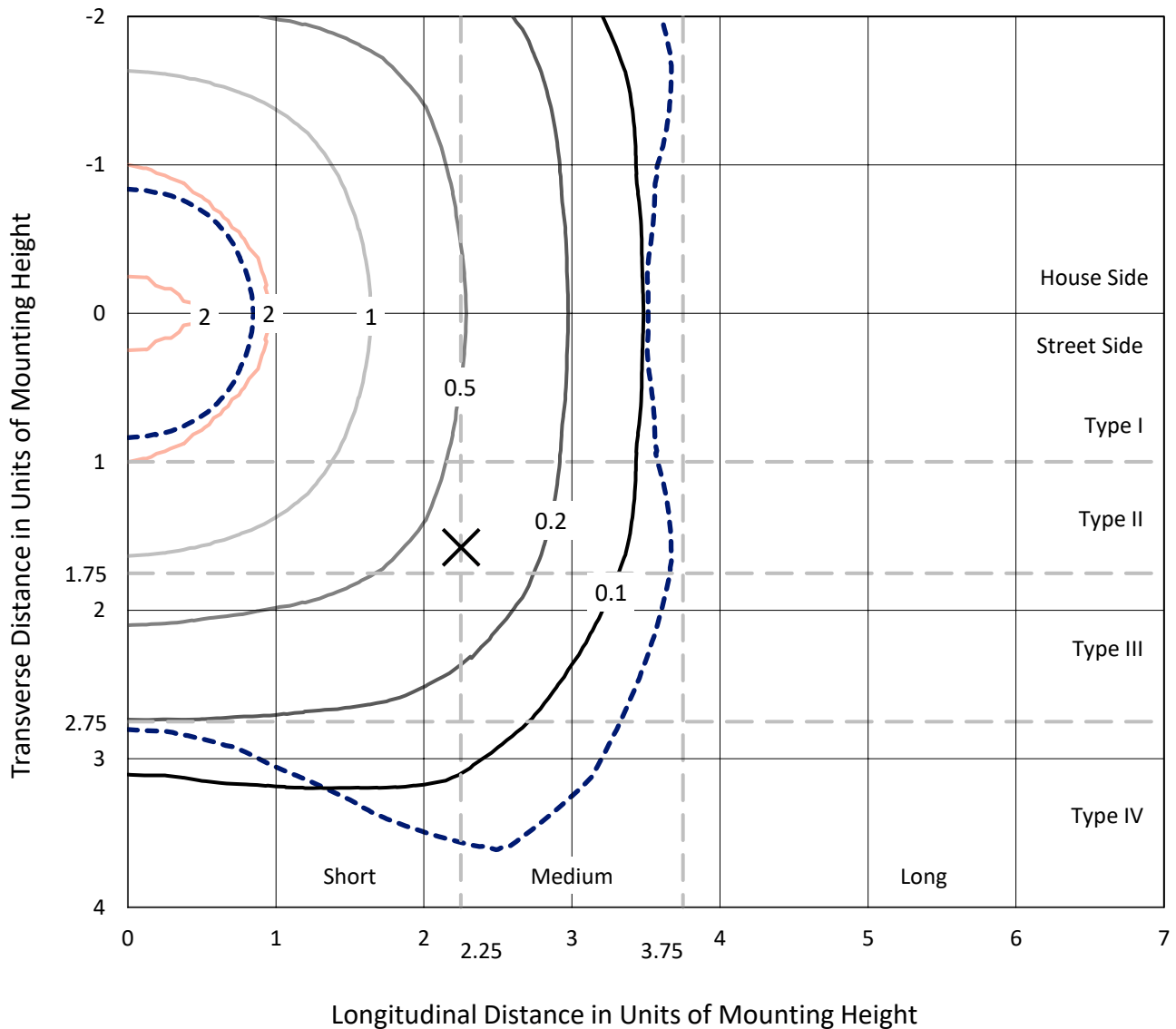


REPORT NUMBER: P840874

CATALOG NUMBER: ARCH4-100-730-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

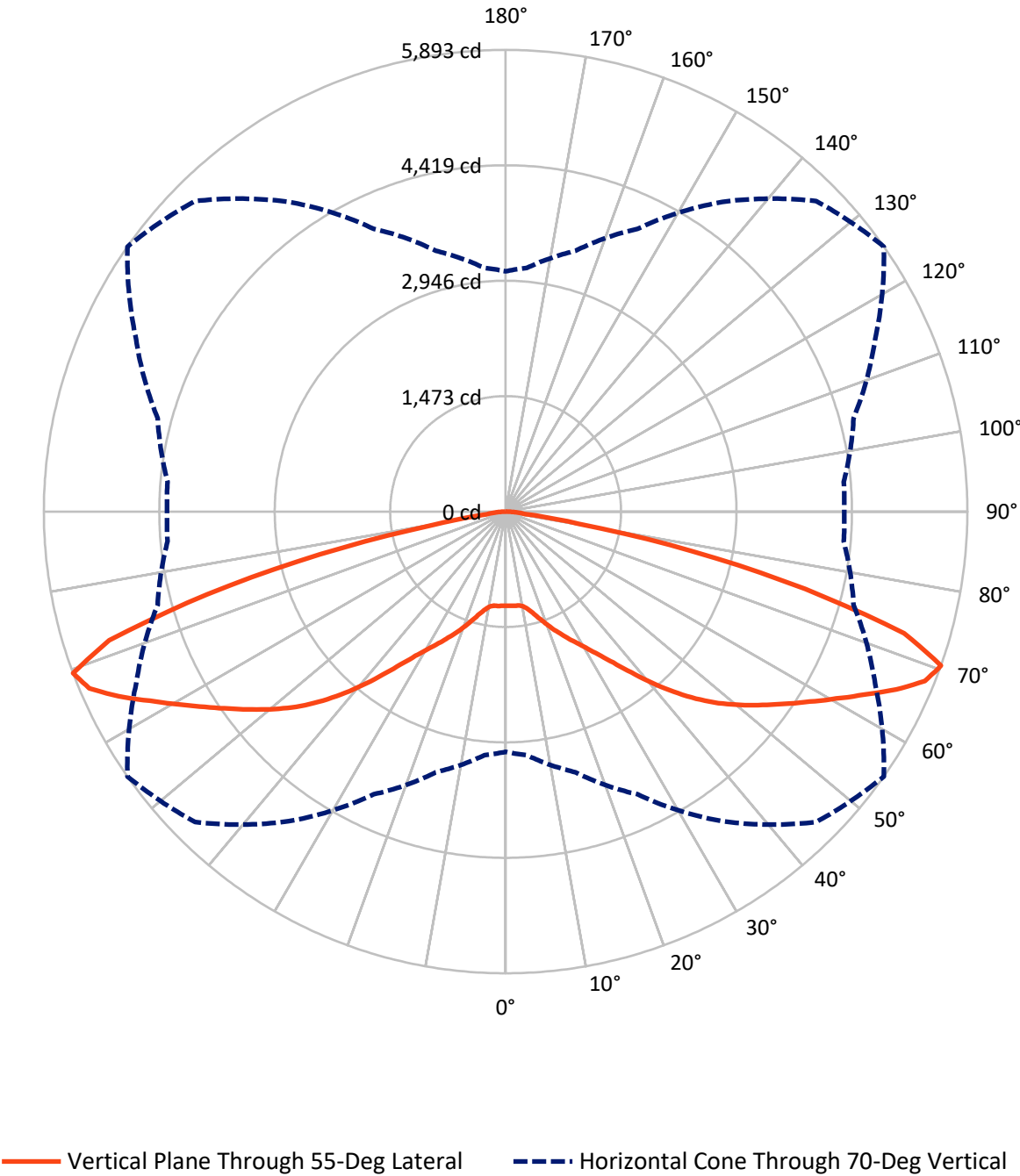
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type V - Medium - N/A

REPORT NUMBER: P840874
CATALOG NUMBER: ARCH4-100-730-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P840874

CATALOG NUMBER: ARCH4-100-730-U-5WQ

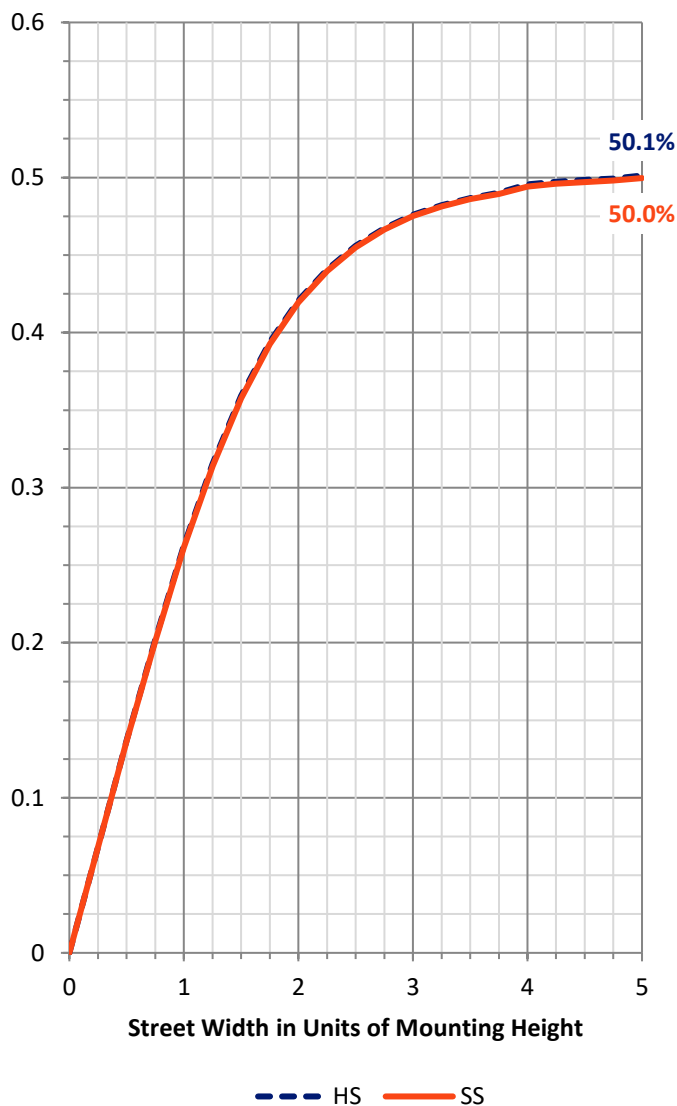
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8628.0	0.0	8628.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8628.0	0.0	8628.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17256.0	0.0	17256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	0.7
10°-20°	395.2	2.3
20°-30°	821.2	4.8
30°-40°	1516.8	8.8
40°-50°	2664.6	15.4
50°-60°	3843.1	22.3
60°-70°	4703.5	27.3
70°-80°	2992.9	17.3
80°-90°	202.5	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°	17256.0	100.0
0°-180°	17256.0	100.0

Coefficient of Utilization



REPORT NUMBER: P840874

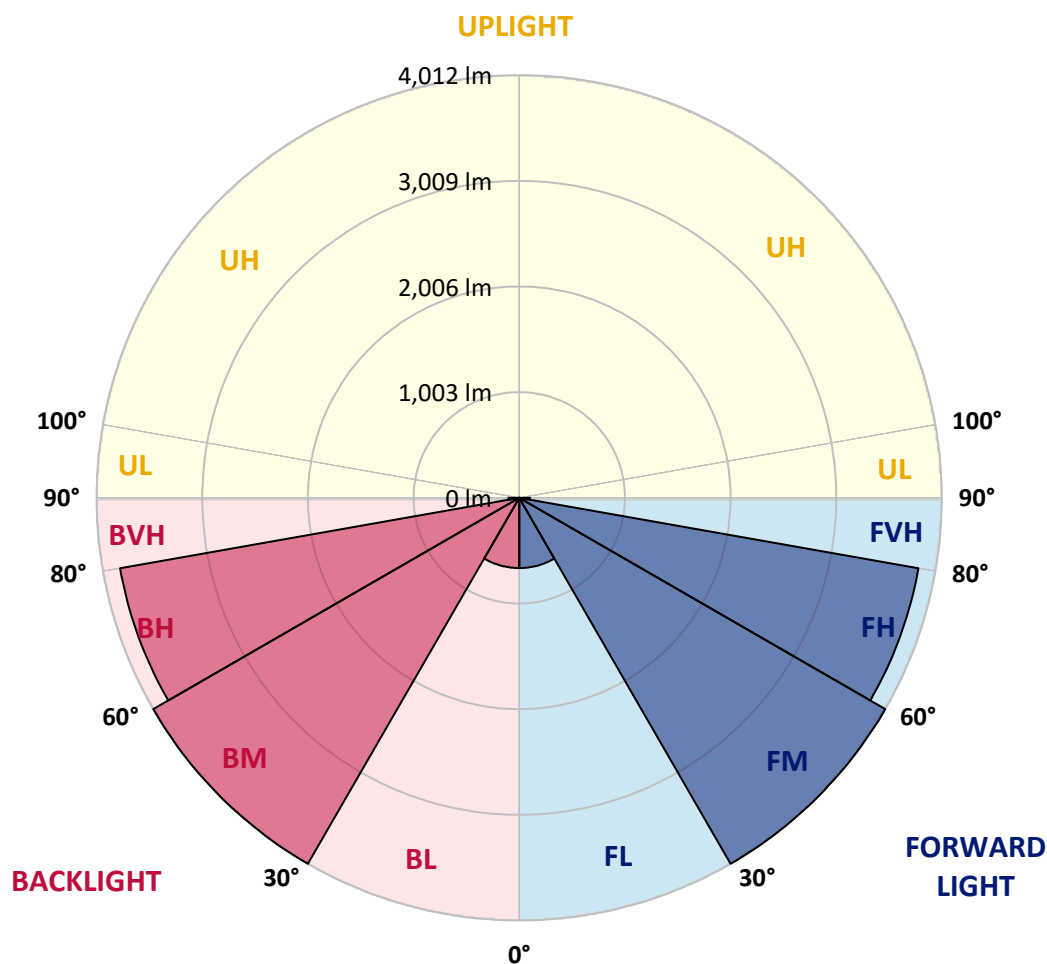
CATALOG NUMBER: ARCH4-100-730-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	666.3	3.9			
FM	(30°-60°)	4012.2	23.3			
FH	(60°-80°)	3848.2	22.3			G2/5000
FVH	(80°-90°)	101.3	0.6			G2/225
BL	(0°-30°)	666.3	3.9	B2/1000		
BM	(30°-60°)	4012.2	23.3	B3/5000		
BH	(60°-80°)	3848.2	22.3	B4/5000		G2/5000
BVH	(80°-90°)	101.3	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: P840874

CATALOG NUMBER: ARCH4-100-730-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1202.9	1202.9	1202.9	1202.9	1202.9	1202.9	1202.9	1202.9	1202.9	1202.9	1202.9
2.5°	1218.9	1218.9	1215.7	1215.7	1209.3	1206.1	1202.9	1202.9	1199.7	1199.7	1196.5
5°	1225.4	1225.4	1225.4	1222.2	1218.9	1215.7	1209.3	1202.9	1199.7	1196.5	1193.3
7.5°	1228.6	1228.6	1225.4	1225.4	1222.2	1218.9	1209.3	1199.7	1196.5	1193.3	1193.3
10°	1254.2	1251.0	1247.8	1241.4	1241.4	1241.4	1228.6	1218.9	1215.7	1215.7	1215.7
12.5°	1315.2	1312.0	1305.6	1295.9	1295.9	1299.1	1279.9	1267.1	1267.1	1263.9	1263.9
15°	1405.0	1401.8	1395.4	1379.3	1376.1	1382.5	1353.7	1340.8	1340.8	1340.8	1337.6
17.5°	1504.4	1498.0	1488.4	1475.6	1475.6	1475.6	1446.7	1430.7	1421.0	1421.0	1417.8
20°	1587.8	1584.6	1584.6	1581.4	1591.0	1591.0	1552.6	1526.9	1504.4	1491.6	1488.4
22.5°	1661.6	1658.4	1664.8	1677.7	1696.9	1703.3	1658.4	1619.9	1584.6	1559.0	1552.6
25°	1761.1	1757.8	1754.6	1773.9	1806.0	1815.6	1767.5	1719.4	1684.1	1671.2	1664.8
27.5°	1866.9	1870.1	1873.3	1892.6	1918.2	1934.3	1886.2	1841.2	1812.4	1793.1	1786.7
30°	1985.6	1992.0	2001.6	2030.5	2049.8	2056.2	2014.5	1982.4	1956.7	1940.7	1931.1
32.5°	2136.4	2149.2	2162.0	2187.7	2197.3	2190.9	2171.6	2149.2	2129.9	2107.5	2104.3
35°	2360.9	2373.7	2370.5	2380.1	2383.4	2376.9	2367.3	2354.5	2344.9	2316.0	2312.8
37.5°	2643.2	2656.0	2636.8	2627.1	2604.7	2607.9	2604.7	2614.3	2617.5	2588.7	2585.4
40°	2928.7	2941.5	2915.8	2890.2	2867.7	2858.1	2874.1	2906.2	2906.2	2887.0	2887.0
42.5°	3233.4	3243.0	3201.3	3169.3	3140.4	3134.0	3143.6	3182.1	3191.7	3188.5	3188.5
45°	3538.1	3531.7	3477.2	3445.1	3419.5	3403.4	3406.6	3435.5	3454.7	3464.4	3464.4
47.5°	3772.3	3762.7	3717.8	3692.1	3676.1	3653.6	3653.6	3669.7	3679.3	3682.5	3682.5
50°	3958.4	3948.7	3903.8	3900.6	3900.6	3891.0	3881.4	3878.2	3871.8	3875.0	3875.0
52.5°	4118.8	4105.9	4073.8	4080.3	4109.1	4115.5	4102.7	4077.0	4051.4	4041.8	4045.0
55°	4292.0	4272.7	4247.1	4266.3	4324.0	4349.7	4330.5	4279.1	4234.2	4205.4	4205.4
57.5°	4429.9	4407.4	4407.4	4462.0	4567.8	4619.2	4577.5	4481.2	4404.2	4372.2	4375.4
60°	4333.7	4314.4	4391.4	4632.0	4830.9	4917.5	4846.9	4676.9	4551.8	4513.3	4519.7
62.5°	4144.4	4131.6	4227.8	4599.9	5068.2	5247.9	5142.0	4898.2	4712.2	4667.3	4667.3
65°	3865.3	3862.1	3996.9	4455.6	5122.8	5565.4	5475.6	5138.8	4898.2	4837.3	4850.1
67.5°	3576.6	3576.6	3698.5	4208.6	5058.6	5700.2	5770.7	5356.9	4988.1	4837.3	4840.5
70°	3066.6	3121.1	3445.1	3980.8	4824.5	5603.9	5892.6	5203.0	4596.7	4330.5	4320.8
72.5°	2020.9	2091.5	2736.2	3583.1	4593.5	5254.3	5318.4	4571.0	3817.2	3506.1	3490.0
75°	1218.9	1279.9	1773.9	2797.2	4038.6	4231.0	3948.7	3583.1	2851.7	2607.9	2607.9
77.5°	359.3	401.0	818.0	1773.9	2793.9	2781.1	2434.7	2110.7	1687.3	1433.9	1453.1
80°	211.7	218.1	266.2	808.4	1158.0	1218.9	939.9	587.0	587.0	436.3	423.4
82.5°	163.6	163.6	170.0	202.1	279.1	311.2	237.4	202.1	231.0	195.7	186.0
85°	115.5	115.5	115.5	118.7	121.9	125.1	131.5	134.7	147.6	121.9	115.5
87.5°	35.3	38.5	41.7	48.1	57.7	60.9	64.2	57.7	57.7	54.5	51.3
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)