

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: P842449

Luminaire Tested: **ARCH4-50-727-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842449
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: ARCH4-50-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

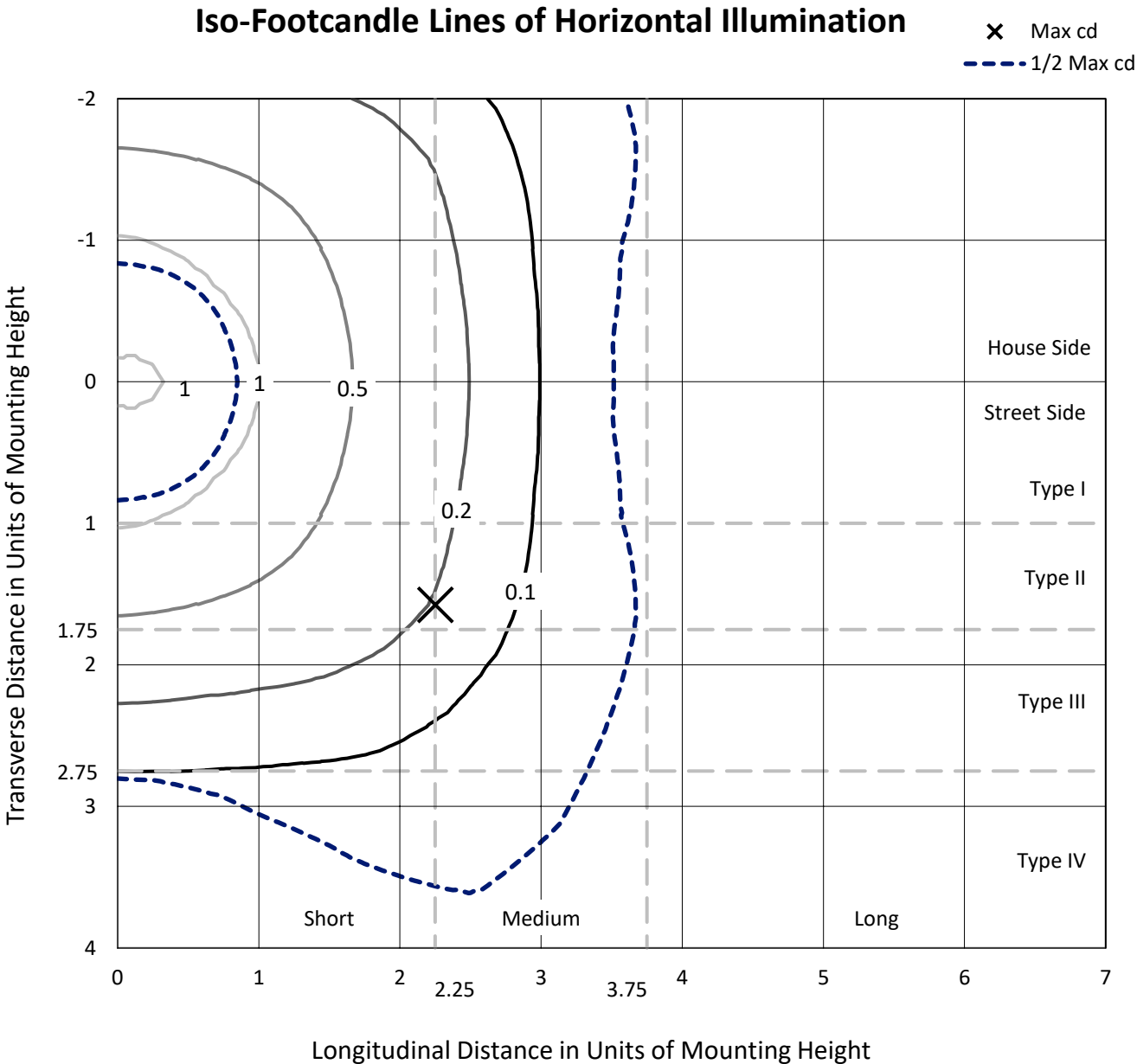
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8854 lumens
Efficiency: N/A
Efficacy: 166.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G2

Input Watts (W): 53.2
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



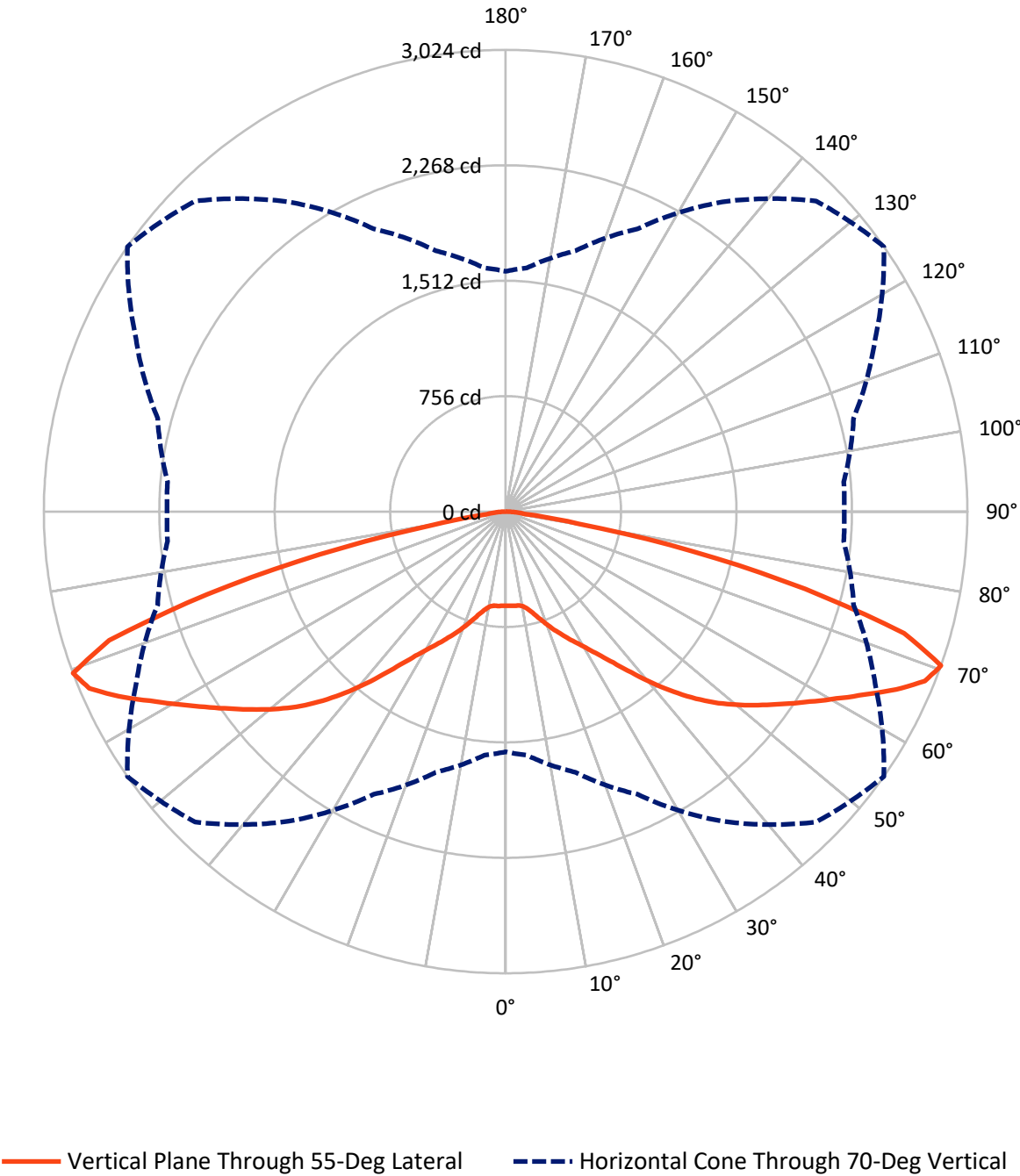
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Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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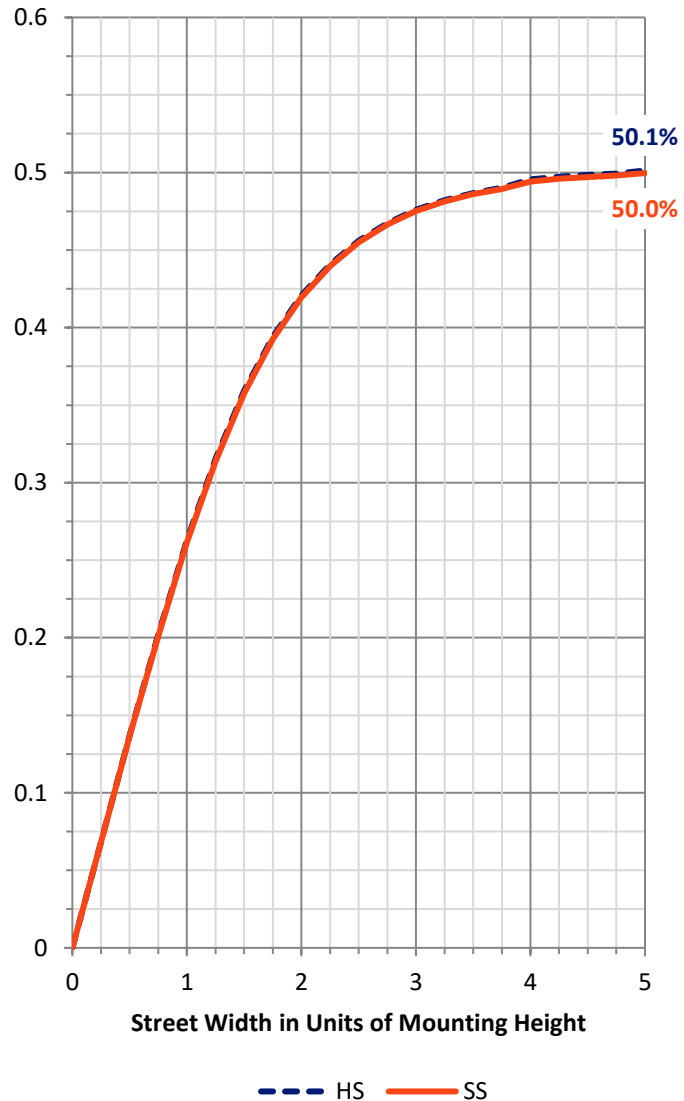
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4427.0	0.0	4427.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4427.0	0.0	4427.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8854.0	0.0	8854.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	0.7
10°-20°	202.8	2.3
20°-30°	421.4	4.8
30°-40°	778.2	8.8
40°-50°	1367.2	15.4
50°-60°	1971.9	22.3
60°-70°	2413.3	27.3
70°-80°	1535.7	17.3
80°-90°	103.9	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°	8854.0	100.0
0°-180°	8854.0	100.0

Coefficient of Utilization



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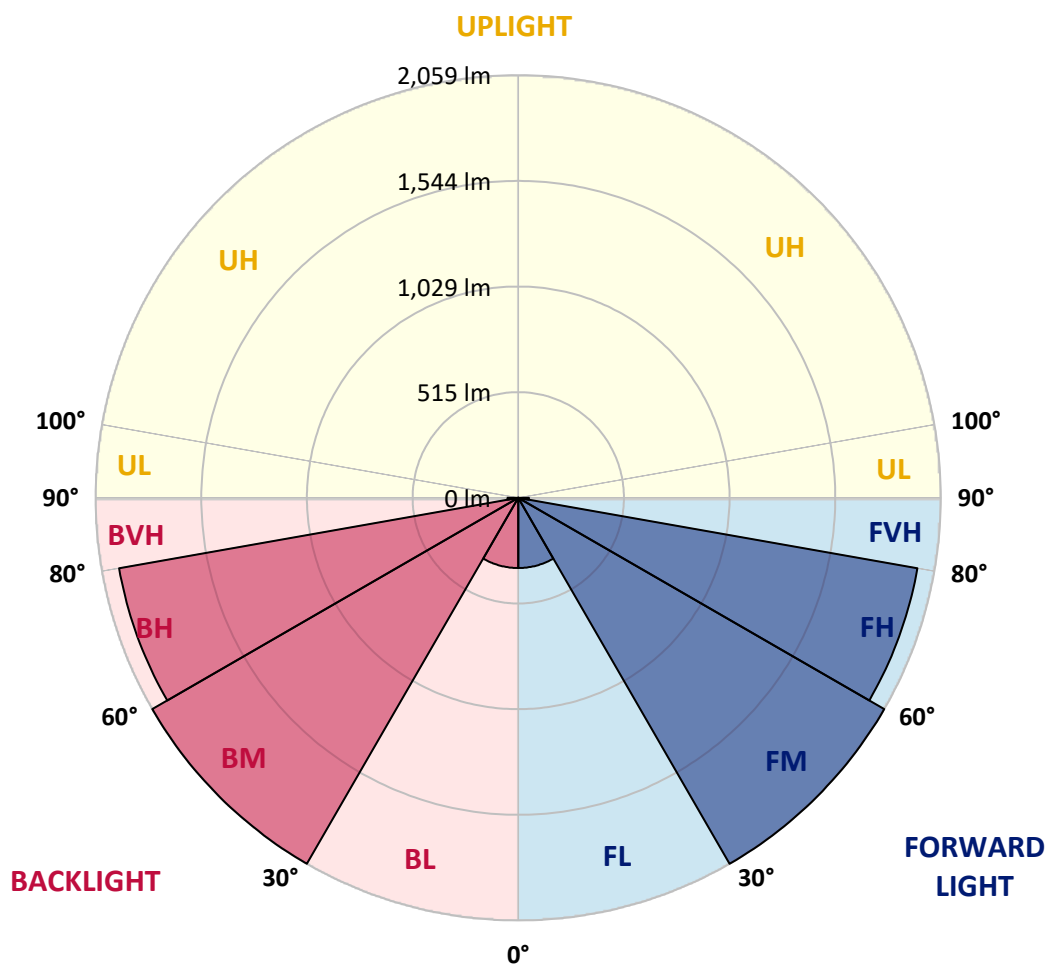
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	341.9	3.9			
FM	(30°-60°)	2058.7	23.3			
FH	(60°-80°)	1974.5	22.3			G2/5000
FVH	(80°-90°)	52.0	0.6			G1/100
BL	(0°-30°)	341.9	3.9	B1/500		
BM	(30°-60°)	2058.7	23.3	B2/2500		
BH	(60°-80°)	1974.5	22.3	B3/2500		G2/5000
BVH	(80°-90°)	52.0	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	617.2	617.2	617.2	617.2	617.2	617.2	617.2	617.2	617.2	617.2	617.2
2.5°	625.4	625.4	623.8	623.8	620.5	618.9	617.2	617.2	615.6	615.6	613.9
5°	628.7	628.7	628.7	627.1	625.4	623.8	620.5	617.2	615.6	613.9	612.3
7.5°	630.4	630.4	628.7	628.7	627.1	625.4	620.5	615.6	613.9	612.3	612.3
10°	643.5	641.9	640.2	637.0	637.0	637.0	630.4	625.4	623.8	623.8	623.8
12.5°	674.8	673.2	669.9	664.9	664.9	666.6	656.7	650.1	650.1	648.5	648.5
15°	720.9	719.3	716.0	707.7	706.1	709.4	694.6	688.0	688.0	688.0	686.3
17.5°	771.9	768.6	763.7	757.1	757.1	757.1	742.3	734.1	729.1	729.1	727.5
20°	814.7	813.1	813.1	811.4	816.4	816.4	796.6	783.4	771.9	765.3	763.7
22.5°	852.6	850.9	854.2	860.8	870.7	874.0	850.9	831.2	813.1	799.9	796.6
25°	903.6	901.9	900.3	910.2	926.6	931.6	906.9	882.2	864.1	857.5	854.2
27.5°	957.9	959.6	961.2	971.1	984.2	992.5	967.8	944.7	929.9	920.1	916.8
30°	1018.8	1022.1	1027.0	1041.8	1051.7	1055.0	1033.6	1017.2	1004.0	995.8	990.8
32.5°	1096.2	1102.7	1109.3	1122.5	1127.4	1124.1	1114.3	1102.7	1092.9	1081.3	1079.7
35°	1211.4	1218.0	1216.3	1221.2	1222.9	1219.6	1214.7	1208.1	1203.1	1188.3	1186.7
37.5°	1356.2	1362.8	1352.9	1348.0	1336.5	1338.1	1336.5	1341.4	1343.0	1328.2	1326.6
40°	1502.7	1509.3	1496.1	1482.9	1471.4	1466.5	1474.7	1491.2	1491.2	1481.3	1481.3
42.5°	1659.1	1664.0	1642.6	1626.1	1611.3	1608.0	1613.0	1632.7	1637.7	1636.0	1636.0
45°	1815.4	1812.1	1784.1	1767.7	1754.5	1746.3	1747.9	1762.7	1772.6	1777.6	1777.6
47.5°	1935.6	1930.6	1907.6	1894.4	1886.2	1874.7	1874.7	1882.9	1887.8	1889.5	1889.5
50°	2031.0	2026.1	2003.0	2001.4	2001.4	1996.5	1991.5	1989.9	1986.6	1988.2	1988.2
52.5°	2113.3	2106.7	2090.3	2093.6	2108.4	2111.7	2105.1	2091.9	2078.8	2073.8	2075.5
55°	2202.2	2192.3	2179.2	2189.0	2218.7	2231.8	2221.9	2195.6	2172.6	2157.8	2157.8
57.5°	2273.0	2261.4	2261.4	2289.4	2343.7	2370.1	2348.7	2299.3	2259.8	2243.3	2245.0
60°	2223.6	2213.7	2253.2	2376.7	2478.7	2523.1	2486.9	2399.7	2335.5	2315.8	2319.1
62.5°	2126.5	2119.9	2169.3	2360.2	2600.5	2692.7	2638.4	2513.3	2417.8	2394.8	2394.8
65°	1983.3	1981.6	2050.8	2286.1	2628.5	2855.6	2809.5	2636.7	2513.3	2482.0	2488.6
67.5°	1835.2	1835.2	1897.7	2159.4	2595.6	2924.7	2960.9	2748.6	2559.4	2482.0	2483.6
70°	1573.5	1601.4	1767.7	2042.5	2475.4	2875.4	3023.5	2669.6	2358.6	2221.9	2217.0
72.5°	1036.9	1073.1	1403.9	1838.5	2356.9	2696.0	2728.9	2345.4	1958.6	1799.0	1790.7
75°	625.4	656.7	910.2	1435.2	2072.2	2170.9	2026.1	1838.5	1463.2	1338.1	1338.1
77.5°	184.3	205.7	419.7	910.2	1433.6	1427.0	1249.2	1083.0	865.7	735.7	745.6
80°	108.6	111.9	136.6	414.8	594.2	625.4	482.2	301.2	301.2	223.8	217.3
82.5°	83.9	83.9	87.2	103.7	143.2	159.7	121.8	103.7	118.5	100.4	95.5
85°	59.3	59.3	59.3	60.9	62.5	64.2	67.5	69.1	75.7	62.5	59.3
87.5°	18.1	19.8	21.4	24.7	29.6	31.3	32.9	29.6	29.6	28.0	26.3
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)