

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1209090

Luminaire Tested: UPW-SA2-090-750-U-5MQ

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-750-U-5MQ
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12529 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 86
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: 28.75 FT

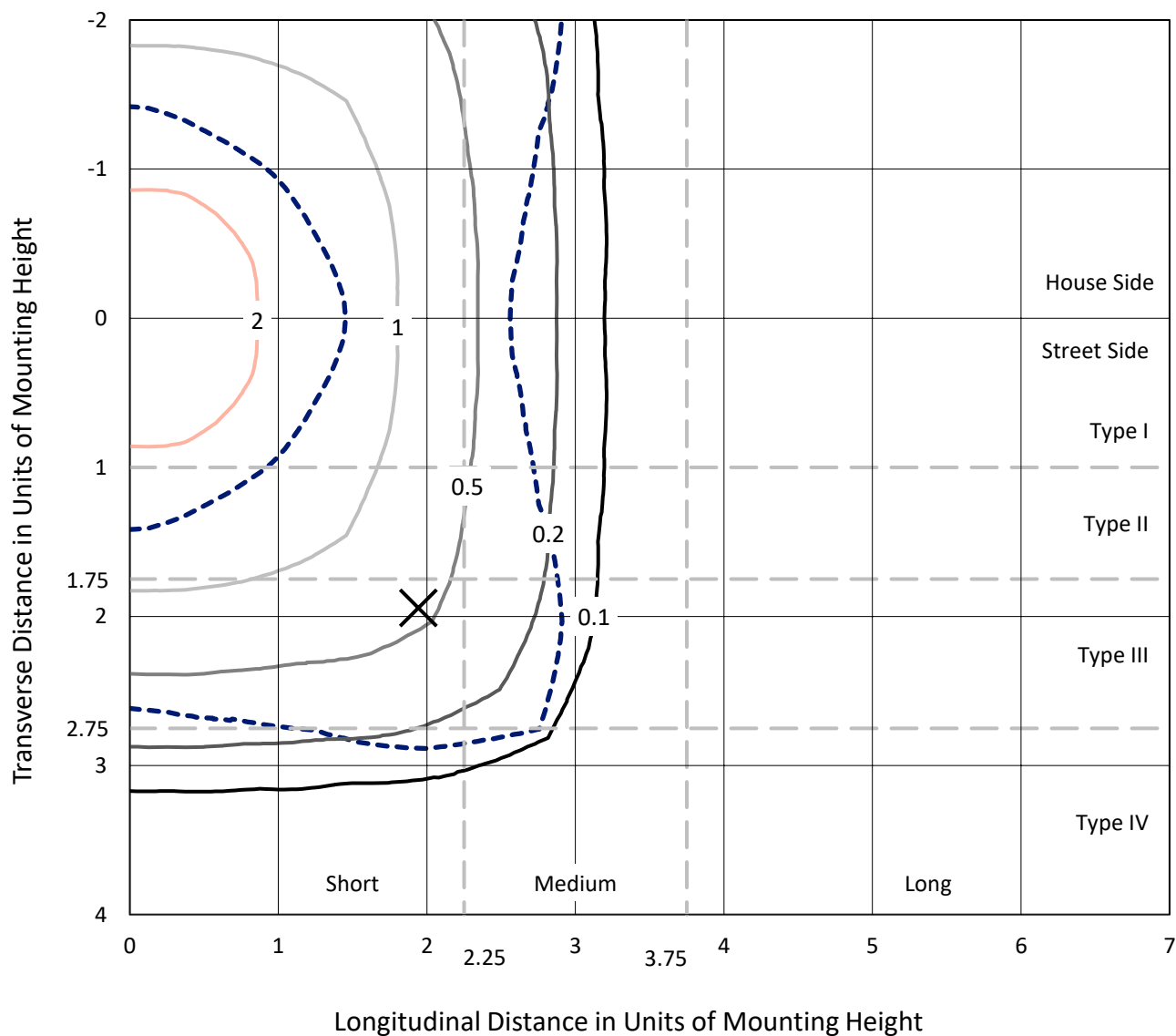


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

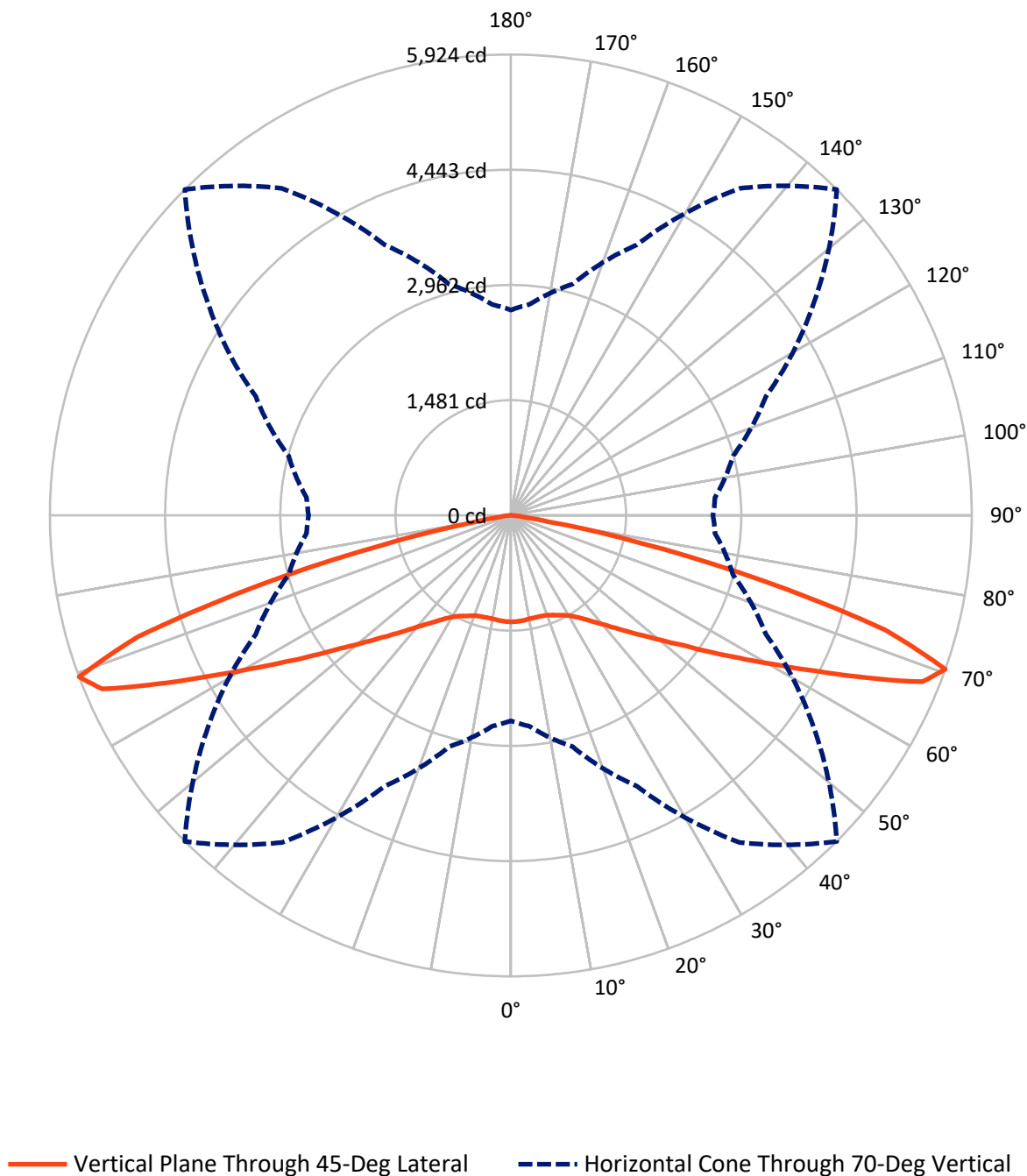


Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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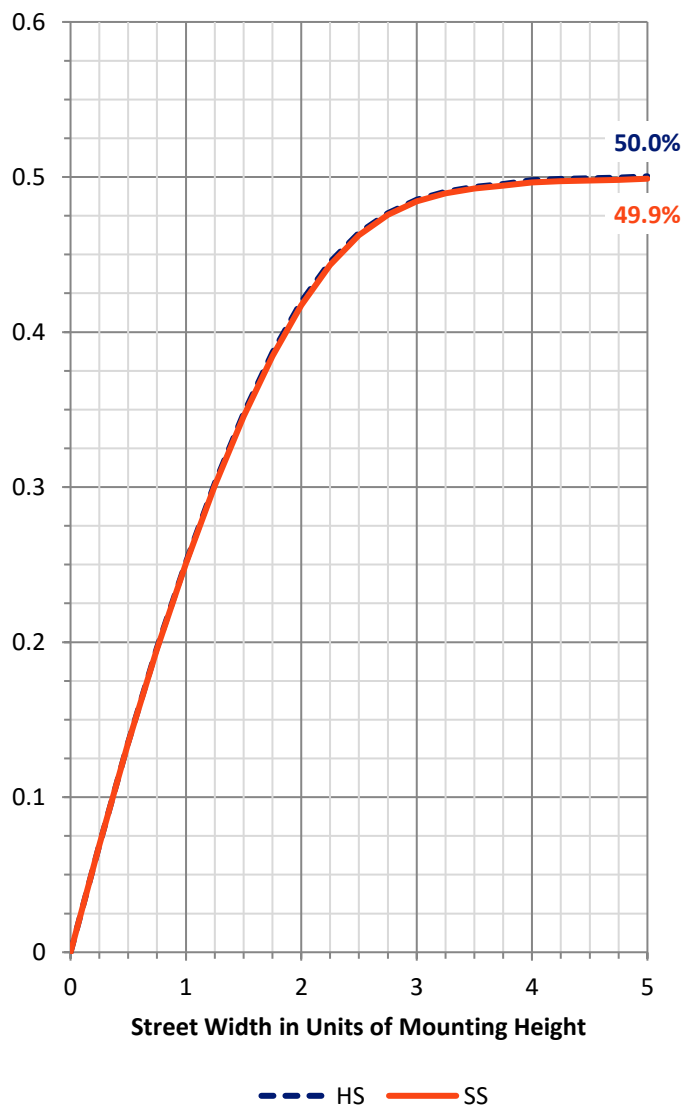
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6264.5	0.0	6264.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6264.5	0.0	6264.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12529.0	0.0	12529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	1.0
10°-20°	380.5	3.0
20°-30°	647.7	5.2
30°-40°	1027.2	8.2
40°-50°	1671.6	13.3
50°-60°	2756.1	22.0
60°-70°	4046.1	32.3
70°-80°	1789.2	14.3
80°-90°	81.0	0.6
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°	12529.0	100.0
0°-180°	12529.0	100.0

Coefficient of Utilization



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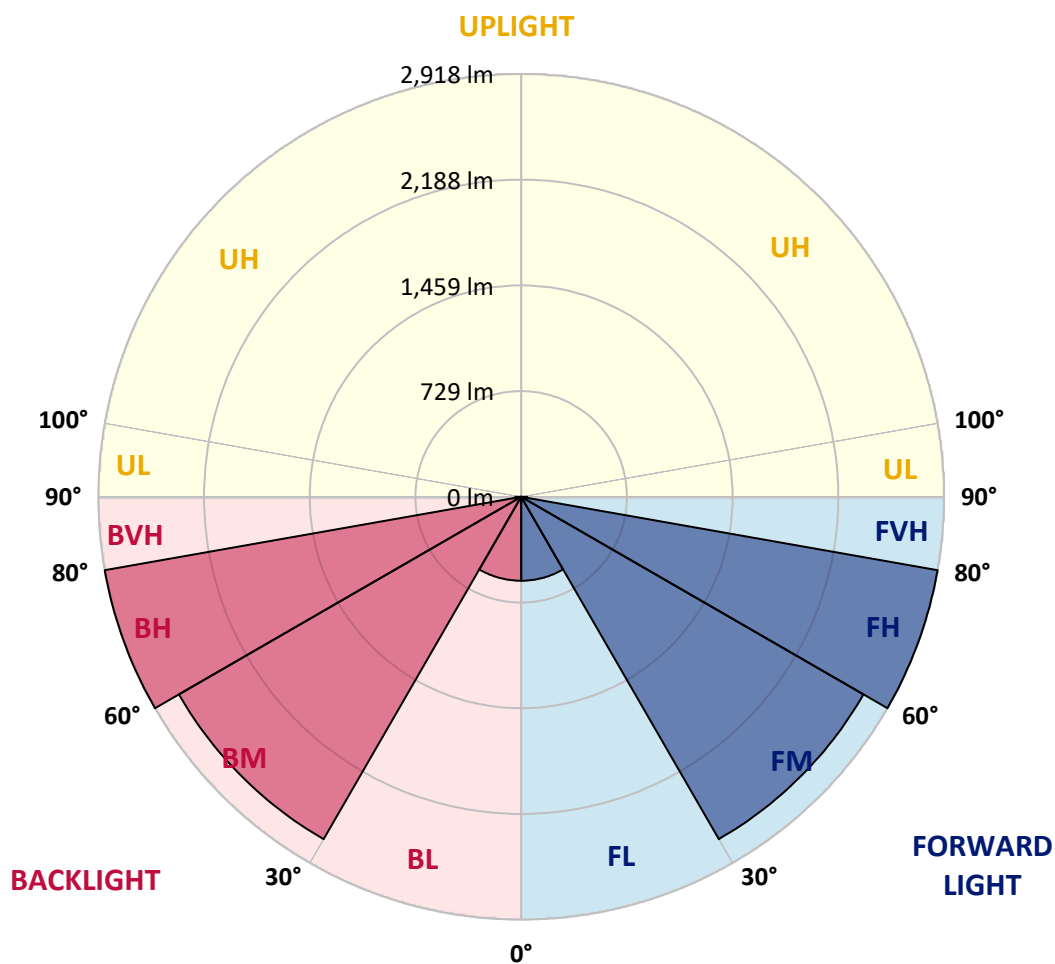
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	578.9	4.6			
FM	(30°-60°)	2727.5	21.8			
FH	(60°-80°)	2917.6	23.3			G2/5000
FVH	(80°-90°)	40.5	0.3			G1/100
BL	(0°-30°)	578.9	4.6	B2/1000		
BM	(30°-60°)	2727.5	21.8	B3/5000		
BH	(60°-80°)	2917.6	23.3	B4/5000		G2/5000
BVH	(80°-90°)	40.5	0.3			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1368.4	1368.4	1368.4	1368.4	1368.4	1368.4	1368.4	1368.4	1368.4	1368.4	1368.4
2.5°	1366.3	1365.0	1367.9	1367.5	1365.0	1365.5	1365.5	1366.7	1366.7	1365.9	1365.9
5°	1361.3	1360.5	1363.8	1363.8	1361.3	1362.1	1363.0	1364.2	1363.8	1363.0	1362.6
7.5°	1355.1	1354.7	1358.0	1358.0	1356.3	1357.2	1356.3	1356.8	1355.9	1355.1	1353.8
10°	1344.7	1345.6	1348.5	1349.3	1349.3	1349.7	1348.9	1346.8	1345.6	1344.3	1343.1
12.5°	1335.2	1334.8	1338.9	1341.0	1344.3	1348.0	1345.6	1339.8	1337.3	1334.8	1333.9
15°	1329.0	1329.4	1333.5	1337.3	1343.1	1350.9	1348.0	1338.9	1333.9	1331.0	1330.2
17.5°	1327.7	1328.6	1333.9	1340.6	1346.8	1355.5	1353.8	1344.7	1336.4	1331.0	1329.8
20°	1330.6	1331.0	1339.3	1348.9	1359.7	1367.9	1364.2	1354.3	1343.1	1334.8	1332.7
22.5°	1336.0	1337.7	1348.0	1363.0	1379.6	1390.8	1386.2	1369.2	1351.8	1341.4	1338.5
25°	1353.0	1353.4	1367.5	1387.9	1407.8	1420.6	1415.2	1391.2	1368.8	1357.2	1353.4
27.5°	1388.3	1389.5	1403.6	1427.2	1444.2	1452.5	1449.2	1429.7	1410.7	1398.2	1399.5
30°	1439.3	1440.9	1456.7	1482.8	1493.2	1495.2	1494.4	1485.3	1467.9	1451.3	1452.5
32.5°	1501.5	1502.3	1523.4	1547.1	1555.4	1557.0	1555.4	1547.1	1526.3	1504.0	1505.2
35°	1581.5	1584.0	1604.3	1627.1	1633.7	1637.1	1634.2	1623.4	1601.8	1579.8	1579.0
37.5°	1680.2	1680.6	1701.7	1725.4	1733.7	1734.5	1731.2	1724.1	1697.2	1677.3	1676.0
40°	1794.6	1796.3	1821.2	1846.5	1849.8	1846.0	1850.6	1846.5	1818.7	1795.9	1799.6
42.5°	1934.0	1937.7	1967.5	1992.4	1982.9	1980.8	1983.7	1985.0	1962.6	1934.8	1932.3
45°	2096.1	2099.4	2136.7	2156.6	2150.4	2136.7	2142.5	2152.5	2121.4	2087.0	2090.3
47.5°	2281.0	2289.3	2329.1	2347.8	2332.4	2313.8	2325.0	2339.9	2303.4	2260.7	2258.6
50°	2486.7	2497.1	2550.1	2576.3	2560.9	2526.5	2545.2	2555.1	2502.4	2447.3	2442.7
52.5°	2706.0	2716.4	2783.2	2837.1	2827.1	2773.6	2799.8	2789.4	2728.8	2654.6	2648.8
55°	2954.4	2958.6	3030.7	3117.8	3127.7	3088.4	3086.7	3069.7	2980.1	2894.3	2890.1
57.5°	3209.8	3212.7	3306.0	3408.9	3455.7	3455.7	3409.3	3373.2	3254.2	3154.7	3144.3
60°	3485.6	3496.0	3599.2	3738.9	3848.4	3880.8	3798.7	3700.4	3571.0	3449.5	3437.5
62.5°	3731.1	3743.1	3901.1	4109.2	4285.0	4402.8	4202.1	4042.1	3806.5	3611.6	3588.8
65°	3762.2	3794.5	4024.6	4401.6	4795.1	5030.2	4645.4	4251.0	3821.9	3551.1	3527.9
67.5°	3435.8	3490.6	3801.6	4388.3	5201.4	5706.1	4928.6	4131.6	3546.5	3247.2	3221.5
70°	2640.1	2719.7	3078.4	3838.5	5131.4	5923.8	4751.1	3617.0	2956.9	2634.7	2598.6
72.5°	1448.4	1481.1	1803.7	2628.5	4113.8	5033.9	3962.9	2674.5	1960.9	1595.6	1535.1
75°	459.4	471.0	635.3	1075.6	2327.0	3334.2	2517.4	1312.8	722.7	532.8	526.6
77.5°	204.0	205.3	229.7	313.9	801.5	1689.3	962.8	357.4	246.3	215.2	222.3
80°	129.0	129.0	142.2	155.5	218.1	490.5	260.4	170.0	145.1	134.8	137.7
82.5°	61.8	68.4	92.5	99.5	119.8	165.0	133.5	111.1	97.0	72.1	67.2
85°	40.6	34.0	58.5	65.9	69.7	79.2	77.5	73.4	63.4	36.1	40.2
87.5°	18.2	17.4	30.3	27.8	26.1	19.9	29.9	36.9	35.7	17.8	17.8
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)