

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: P841288

Luminaire Tested: **ARCH4-160-722-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841288
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: ARCH4-160-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22363 lumens
Efficiency: N/A
Efficacy: 139.2 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): 160.7
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

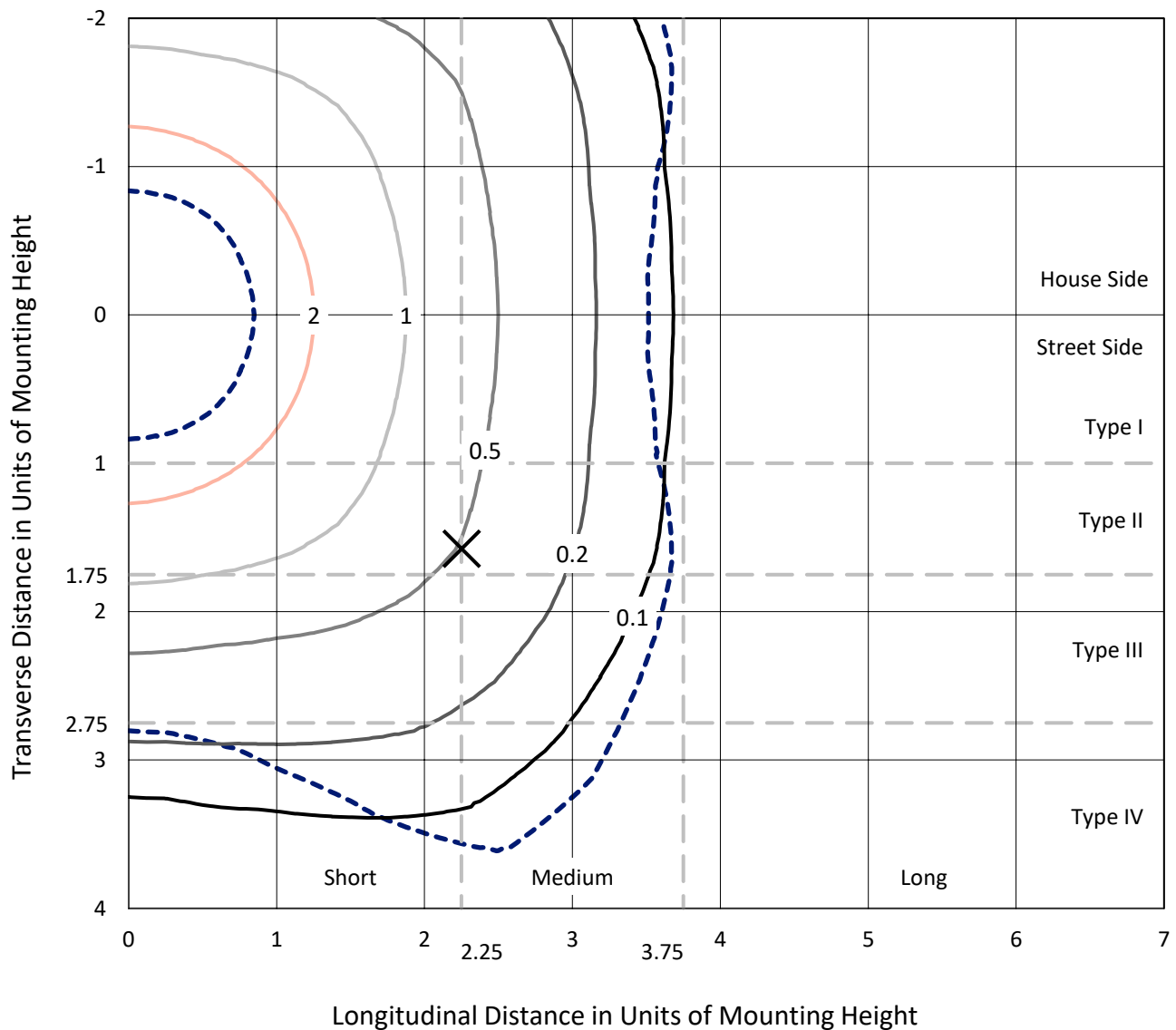


REPORT NUMBER: P841288

CATALOG NUMBER: ARCH4-160-722-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

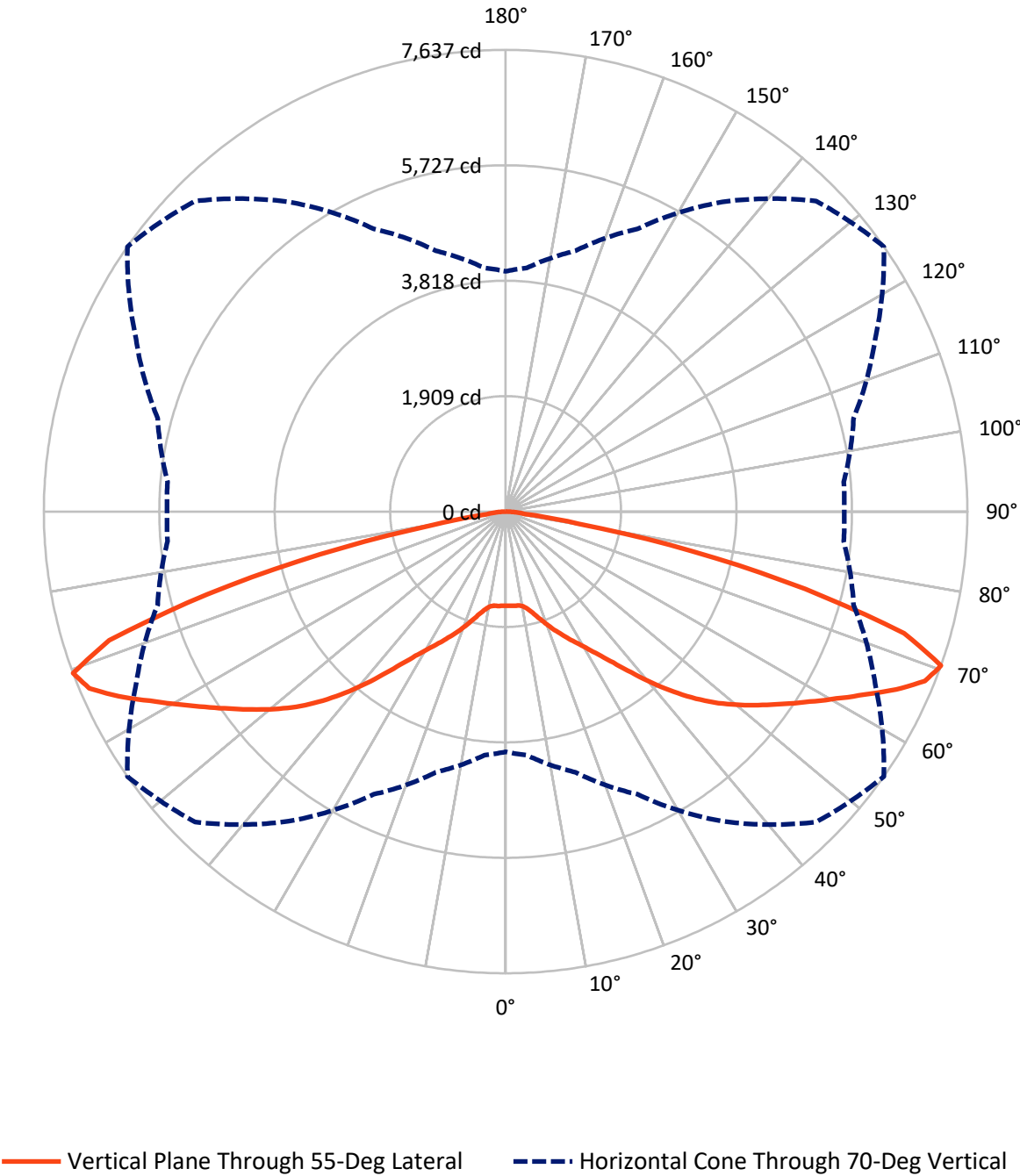
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type V - Medium - N/A

REPORT NUMBER: P841288
CATALOG NUMBER: ARCH4-160-722-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P841288

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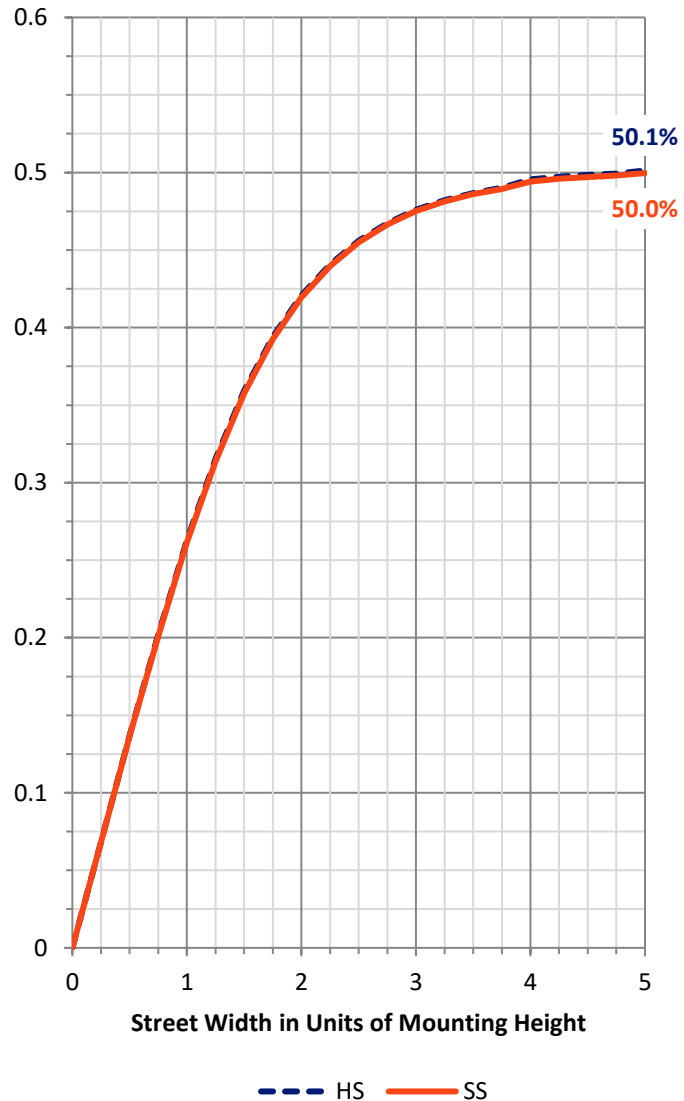
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11181.5	0.0	11181.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11181.5	0.0	11181.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22363.0	0.0	22363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.5	0.7
10°-20°	512.2	2.3
20°-30°	1064.3	4.8
30°-40°	1965.7	8.8
40°-50°	3453.3	15.4
50°-60°	4980.4	22.3
60°-70°	6095.5	27.3
70°-80°	3878.7	17.3
80°-90°	262.4	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°	22363.0	100.0
0°-180°	22363.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841288

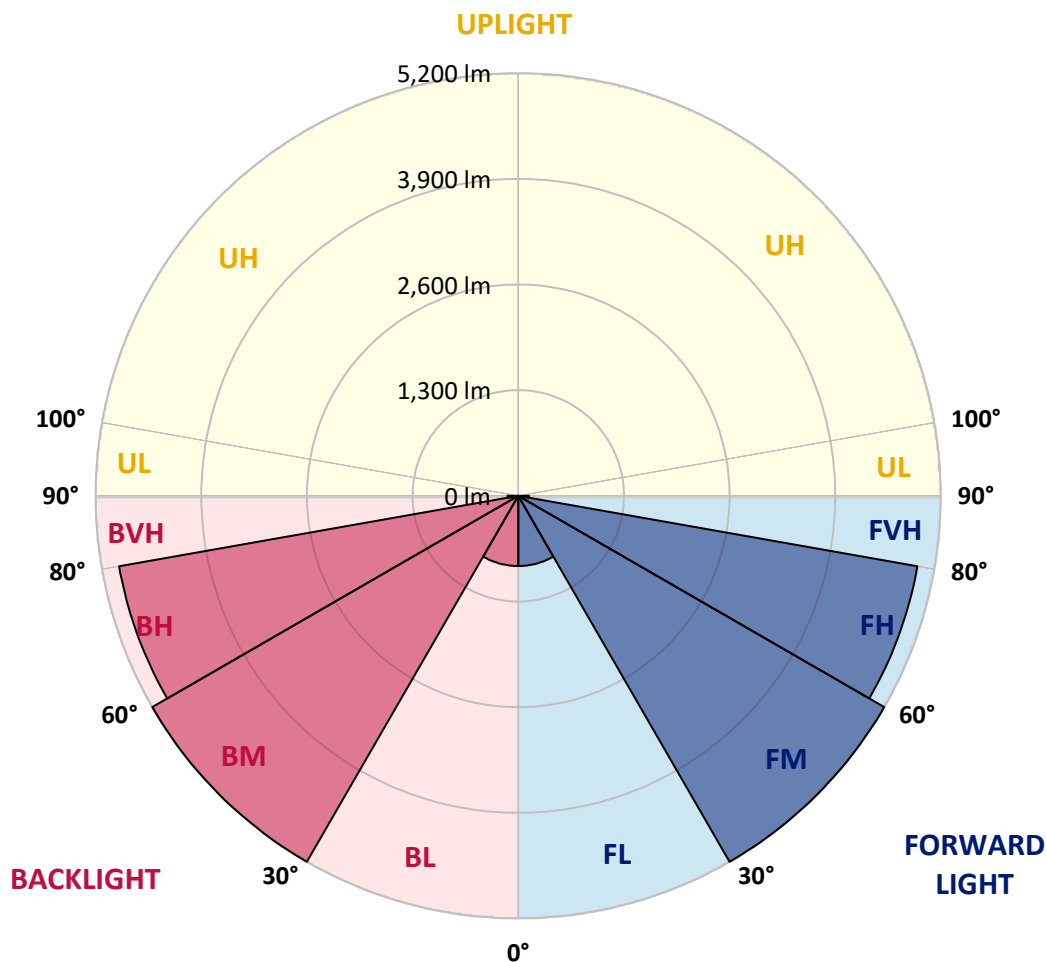
CATALOG NUMBER: ARCH4-160-722-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	863.5	3.9			
FM	(30°-60°)	5199.7	23.3			
FH	(60°-80°)	4987.1	22.3			G2/5000
FVH	(80°-90°)	131.2	0.6			G2/225
BL	(0°-30°)	863.5	3.9	B2/1000		
BM	(30°-60°)	5199.7	23.3	B4/8500		
BH	(60°-80°)	4987.1	22.3	B4/5000		G2/5000
BVH	(80°-90°)	131.2	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: P841288

CATALOG NUMBER: ARCH4-160-722-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1558.9	1558.9	1558.9	1558.9	1558.9	1558.9	1558.9	1558.9	1558.9	1558.9	1558.9
2.5°	1579.7	1579.7	1575.5	1575.5	1567.2	1563.1	1558.9	1558.9	1554.8	1554.8	1550.6
5°	1588.0	1588.0	1588.0	1583.9	1579.7	1575.5	1567.2	1558.9	1554.8	1550.6	1546.4
7.5°	1592.2	1592.2	1588.0	1588.0	1583.9	1579.7	1567.2	1554.8	1550.6	1546.4	1546.4
10°	1625.4	1621.3	1617.1	1608.8	1608.8	1608.8	1592.2	1579.7	1575.5	1575.5	1575.5
12.5°	1704.4	1700.3	1691.9	1679.5	1679.5	1683.6	1658.7	1642.1	1642.1	1637.9	1637.9
15°	1820.8	1816.7	1808.3	1787.6	1783.4	1791.7	1754.3	1737.7	1737.7	1737.7	1733.5
17.5°	1949.7	1941.4	1928.9	1912.3	1912.3	1912.3	1874.9	1854.1	1841.6	1841.6	1837.4
20°	2057.8	2053.6	2053.6	2049.4	2061.9	2061.9	2012.0	1978.8	1949.7	1933.1	1928.9
22.5°	2153.4	2149.2	2157.5	2174.2	2199.1	2207.4	2149.2	2099.3	2053.6	2020.4	2012.0
25°	2282.2	2278.1	2273.9	2298.9	2340.4	2352.9	2290.6	2228.2	2182.5	2165.8	2157.5
27.5°	2419.4	2423.6	2427.7	2452.7	2485.9	2506.7	2444.4	2386.2	2348.8	2323.8	2315.5
30°	2573.2	2581.6	2594.0	2631.4	2656.4	2664.7	2610.7	2569.1	2535.8	2515.0	2502.6
32.5°	2768.6	2785.3	2801.9	2835.1	2847.6	2839.3	2814.4	2785.3	2760.3	2731.2	2727.1
35°	3059.6	3076.3	3072.1	3084.6	3088.7	3080.4	3067.9	3051.3	3038.8	3001.4	2997.3
37.5°	3425.4	3442.1	3417.1	3404.7	3375.6	3379.7	3375.6	3388.0	3392.2	3354.8	3350.6
40°	3795.4	3812.1	3778.8	3745.5	3716.4	3704.0	3724.8	3766.3	3766.3	3741.4	3741.4
42.5°	4190.4	4202.8	4148.8	4107.2	4069.8	4061.5	4074.0	4123.8	4136.3	4132.2	4132.2
45°	4585.3	4577.0	4506.3	4464.7	4431.5	4410.7	4414.8	4452.3	4477.2	4489.7	4489.7
47.5°	4888.7	4876.3	4818.1	4784.8	4764.0	4734.9	4734.9	4755.7	4768.2	4772.3	4772.3
50°	5129.9	5117.4	5059.2	5055.0	5055.0	5042.6	5030.1	5025.9	5017.6	5021.8	5021.8
52.5°	5337.7	5321.1	5279.5	5287.8	5325.2	5333.6	5316.9	5283.7	5250.4	5237.9	5242.1
55°	5562.2	5537.3	5504.0	5528.9	5603.8	5637.0	5612.1	5545.6	5487.4	5450.0	5450.0
57.5°	5741.0	5711.9	5711.9	5782.5	5919.7	5986.2	5932.2	5807.5	5707.7	5666.1	5670.3
60°	5616.2	5591.3	5691.1	6002.9	6260.6	6372.8	6281.4	6061.1	5898.9	5849.0	5857.4
62.5°	5371.0	5354.3	5479.1	5961.3	6568.2	6801.0	6663.8	6347.9	6106.8	6048.6	6048.6
65°	5009.3	5005.1	5179.7	5774.2	6638.9	7212.6	7096.2	6659.7	6347.9	6268.9	6285.5
67.5°	4635.2	4635.2	4793.1	5454.1	6555.7	7387.2	7478.6	6942.4	6464.3	6268.9	6273.1
70°	3974.2	4044.9	4464.7	5159.0	6252.3	7262.5	7636.6	6742.8	5957.1	5612.1	5599.6
72.5°	2619.0	2710.4	3546.0	4643.5	5953.0	6809.3	6892.5	5923.9	4946.9	4543.7	4522.9
75°	1579.7	1658.7	2298.9	3625.0	5233.8	5483.2	5117.4	4643.5	3695.7	3379.7	3379.7
77.5°	465.6	519.6	1060.1	2298.9	3620.8	3604.2	3155.2	2735.4	2186.6	1858.2	1883.2
80°	274.4	282.7	345.0	1047.6	1500.7	1579.7	1218.0	760.7	760.7	565.4	548.7
82.5°	212.0	212.0	220.3	261.9	361.7	403.2	307.6	261.9	299.3	253.6	241.1
85°	149.7	149.7	149.7	153.8	158.0	162.1	170.4	174.6	191.2	158.0	149.7
87.5°	45.7	49.9	54.0	62.4	74.8	79.0	83.1	74.8	74.8	70.7	66.5
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)