

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: P835819

Luminaire Tested: **ARCH3-100-730-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15565 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 102.6
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

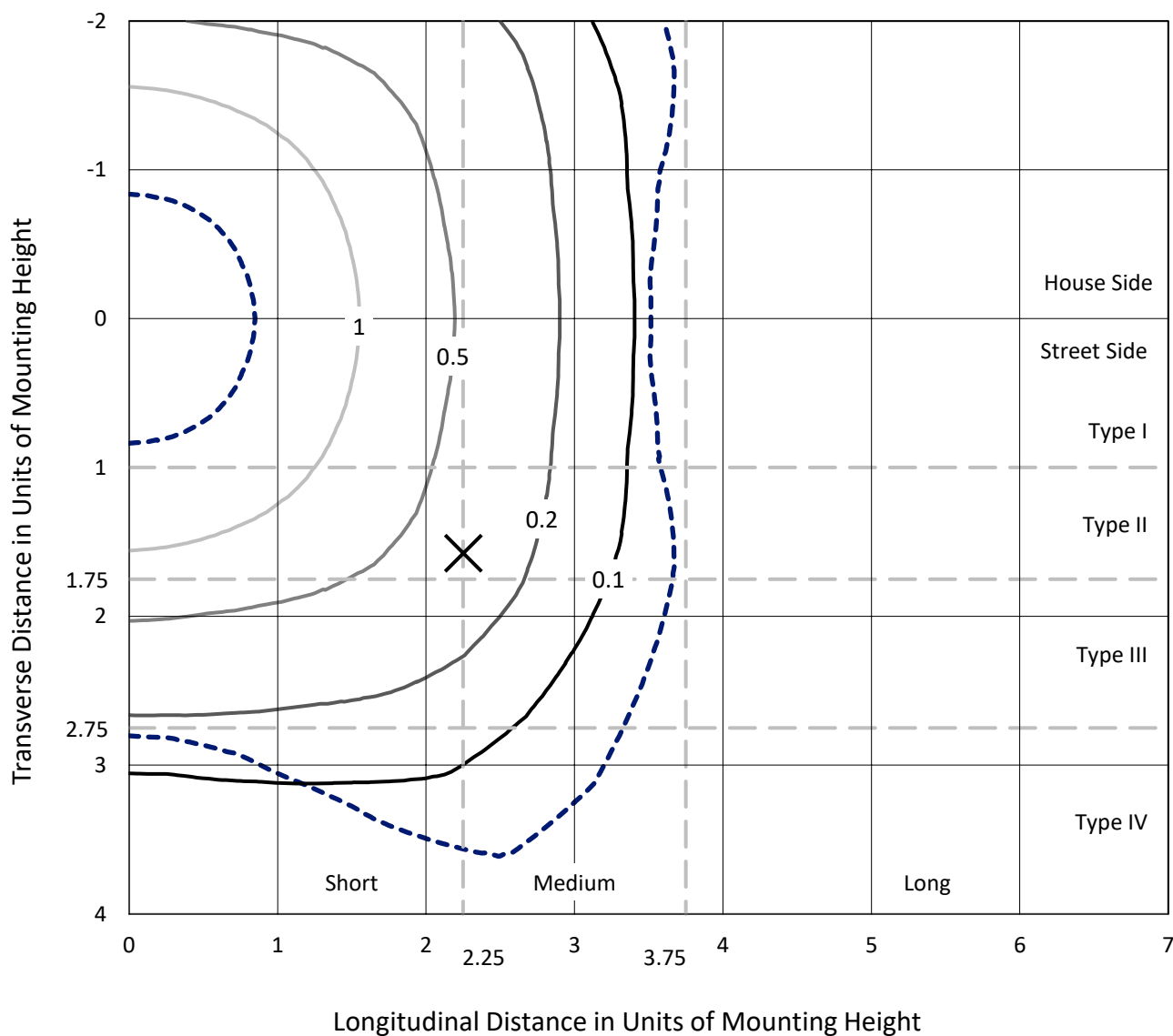


REPORT NUMBER: P835819

CATALOG NUMBER: ARCH3-100-730-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

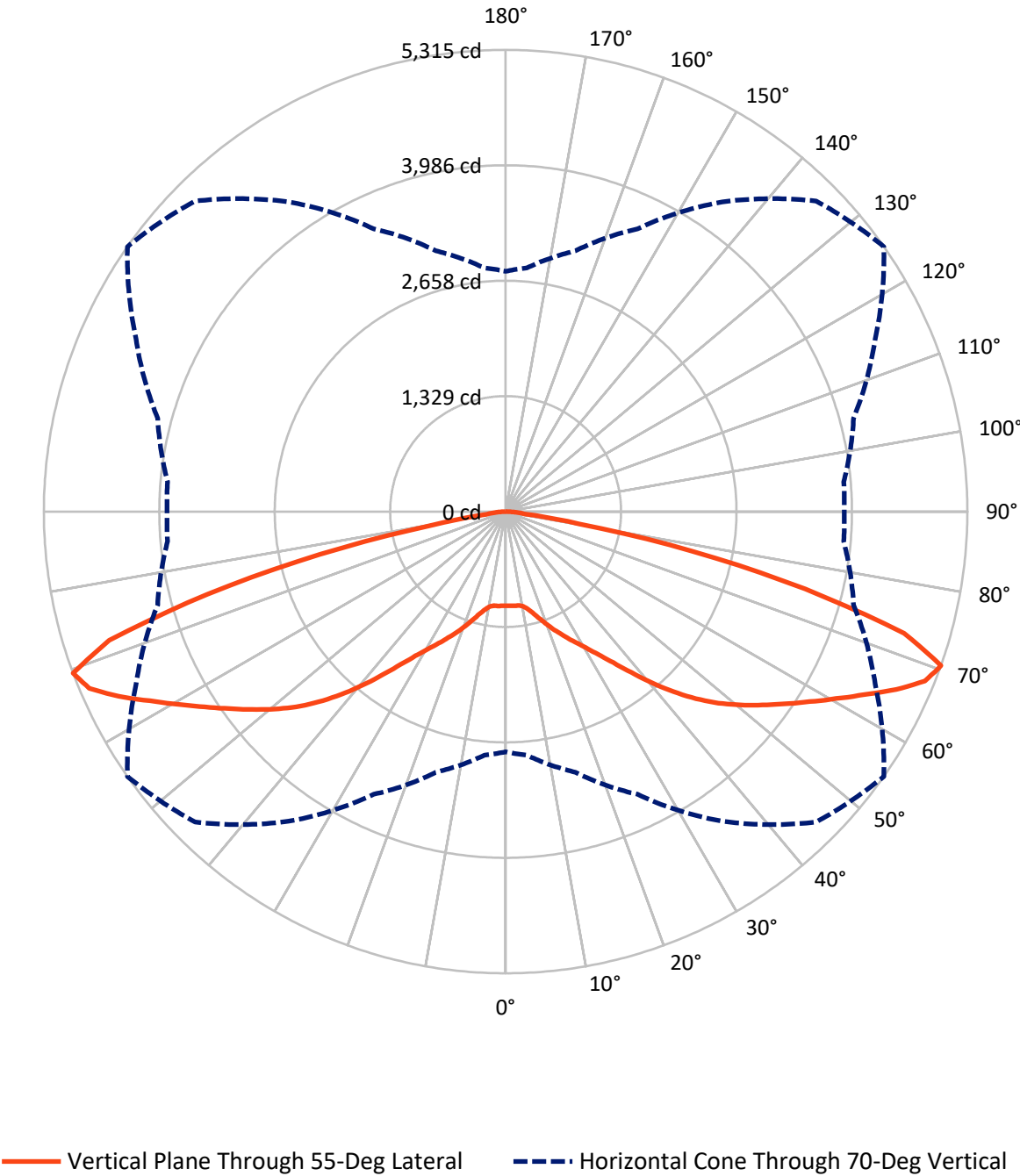
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type V - Medium - N/A

REPORT NUMBER: P835819
CATALOG NUMBER: ARCH3-100-730-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P835819

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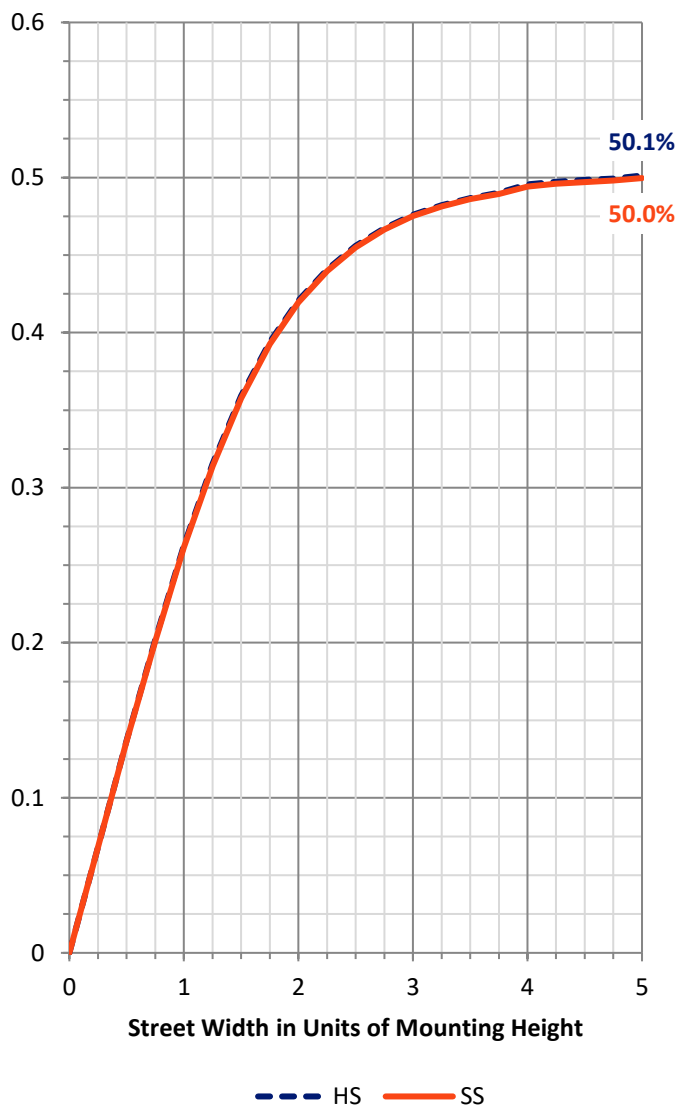
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7782.5	0.0	7782.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7782.5	0.0	7782.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15565.0	0.0	15565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.7	0.7
10°-20°	356.5	2.3
20°-30°	740.8	4.8
30°-40°	1368.1	8.8
40°-50°	2403.5	15.4
50°-60°	3466.5	22.3
60°-70°	4242.6	27.3
70°-80°	2699.6	17.3
80°-90°	182.7	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°	15565.0	100.0
0°-180°	15565.0	100.0

Coefficient of Utilization



REPORT NUMBER: P835819

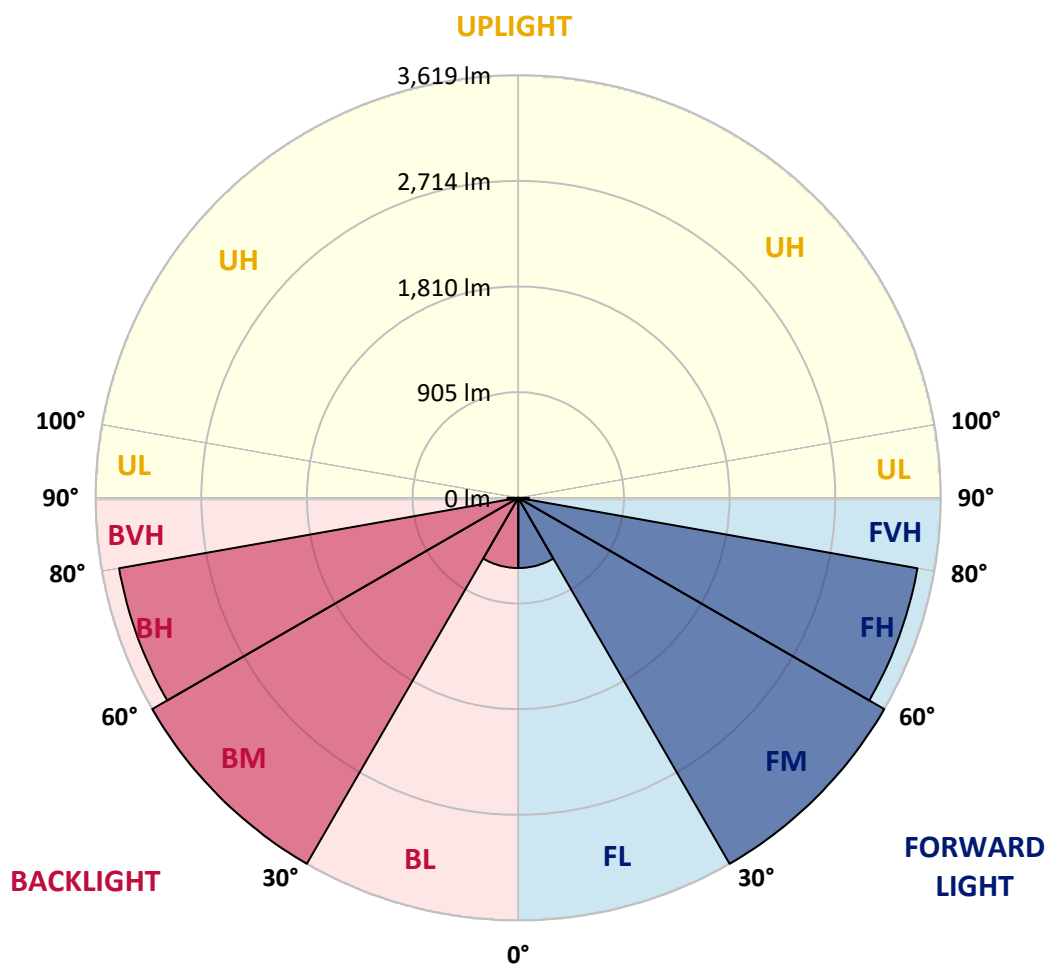
CATALOG NUMBER: ARCH3-100-730-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	601.0	3.9			
FM	(30°-60°)	3619.1	23.3			
FH	(60°-80°)	3471.1	22.3			G2/5000
FVH	(80°-90°)	91.3	0.6			G1/100
BL	(0°-30°)	601.0	3.9	B2/1000		
BM	(30°-60°)	3619.1	23.3	B3/5000		
BH	(60°-80°)	3471.1	22.3	B4/5000		G2/5000
BVH	(80°-90°)	91.3	0.6			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 Medium



REPORT NUMBER: P835819

CATALOG NUMBER: ARCH3-100-730-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0	1085.0
2.5°	1099.5	1099.5	1096.6	1096.6	1090.8	1087.9	1085.0	1085.0	1082.1	1082.1	1079.2
5°	1105.3	1105.3	1105.3	1102.4	1099.5	1096.6	1090.8	1085.0	1082.1	1079.2	1076.3
7.5°	1108.2	1108.2	1105.3	1105.3	1102.4	1099.5	1090.8	1082.1	1079.2	1076.3	1076.3
10°	1131.3	1128.4	1125.5	1119.7	1119.7	1119.7	1108.2	1099.5	1096.6	1096.6	1096.6
12.5°	1186.3	1183.4	1177.6	1168.9	1168.9	1171.8	1154.5	1142.9	1142.9	1140.0	1140.0
15°	1267.3	1264.4	1258.6	1244.2	1241.3	1247.1	1221.0	1209.4	1209.4	1209.4	1206.6
17.5°	1357.0	1351.2	1342.5	1331.0	1331.0	1331.0	1304.9	1290.5	1281.8	1281.8	1278.9
20°	1432.2	1429.3	1429.3	1426.4	1435.1	1435.1	1400.4	1377.3	1357.0	1345.4	1342.5
22.5°	1498.8	1495.9	1501.7	1513.3	1530.6	1536.4	1495.9	1461.2	1429.3	1406.2	1400.4
25°	1588.5	1585.6	1582.7	1600.1	1629.0	1637.7	1594.3	1550.9	1519.0	1507.5	1501.7
27.5°	1684.0	1686.9	1689.7	1707.1	1730.3	1744.7	1701.3	1660.8	1634.8	1617.4	1611.6
30°	1791.0	1796.8	1805.5	1831.5	1848.9	1854.7	1817.1	1788.1	1765.0	1750.5	1741.8
32.5°	1927.0	1938.6	1950.2	1973.3	1982.0	1976.2	1958.8	1938.6	1921.2	1901.0	1898.1
35°	2129.5	2141.1	2138.2	2146.9	2149.8	2144.0	2135.3	2123.8	2115.1	2089.0	2086.1
37.5°	2384.2	2395.7	2378.4	2369.7	2349.4	2352.3	2349.4	2358.1	2361.0	2335.0	2332.1
40°	2641.7	2653.3	2630.1	2607.0	2586.7	2578.0	2592.5	2621.4	2621.4	2604.1	2604.1
42.5°	2916.6	2925.2	2887.6	2858.7	2832.6	2826.9	2835.5	2870.3	2878.9	2876.0	2876.0
45°	3191.4	3185.6	3136.5	3107.5	3084.4	3069.9	3072.8	3098.8	3116.2	3124.9	3124.9
47.5°	3402.6	3394.0	3353.5	3330.3	3315.8	3295.6	3295.6	3310.1	3318.7	3321.6	3321.6
50°	3570.5	3561.8	3521.3	3518.4	3518.4	3509.7	3501.0	3498.1	3492.3	3495.2	3495.2
52.5°	3715.1	3703.6	3674.6	3680.4	3706.5	3712.2	3700.7	3677.5	3654.4	3645.7	3648.6
55°	3871.4	3854.0	3830.9	3848.2	3900.3	3923.5	3906.1	3859.8	3819.3	3793.3	3793.3
57.5°	3995.8	3975.5	3975.5	4024.7	4120.2	4166.5	4128.9	4042.1	3972.6	3943.7	3946.6
60°	3909.0	3891.6	3961.1	4178.1	4357.5	4435.6	4371.9	4218.6	4105.7	4071.0	4076.8
62.5°	3738.3	3726.7	3813.5	4149.1	4571.6	4733.6	4638.1	4418.2	4250.4	4209.9	4209.9
65°	3486.6	3483.7	3605.2	4018.9	4620.8	5020.1	4939.0	4635.2	4418.2	4363.3	4374.8
67.5°	3226.1	3226.1	3336.1	3796.1	4562.9	5141.6	5205.2	4832.0	4499.2	4363.3	4366.1
70°	2766.1	2815.3	3107.5	3590.7	4351.7	5054.8	5315.2	4693.1	4146.3	3906.1	3897.4
72.5°	1822.8	1886.5	2468.1	3231.9	4143.4	4739.4	4797.3	4123.1	3443.2	3162.5	3148.0
75°	1099.5	1154.5	1600.1	2523.1	3642.8	3816.4	3561.8	3231.9	2572.2	2352.3	2352.3
77.5°	324.1	361.7	737.8	1600.1	2520.2	2508.6	2196.1	1903.9	1521.9	1293.4	1310.7
80°	191.0	196.8	240.2	729.1	1044.5	1099.5	847.8	529.5	529.5	393.5	381.9
82.5°	147.6	147.6	153.4	182.3	251.7	280.7	214.1	182.3	208.3	176.5	167.8
85°	104.2	104.2	104.2	107.1	109.9	112.8	118.6	121.5	133.1	109.9	104.2
87.5°	31.8	34.7	37.6	43.4	52.1	55.0	57.9	52.1	52.1	49.2	46.3
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)