

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: P157576

Luminaire Tested: **VST-F05-LED-E-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157576
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33709)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F05-LED-E-U-5WQ-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (35) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13373.2 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 133.3
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



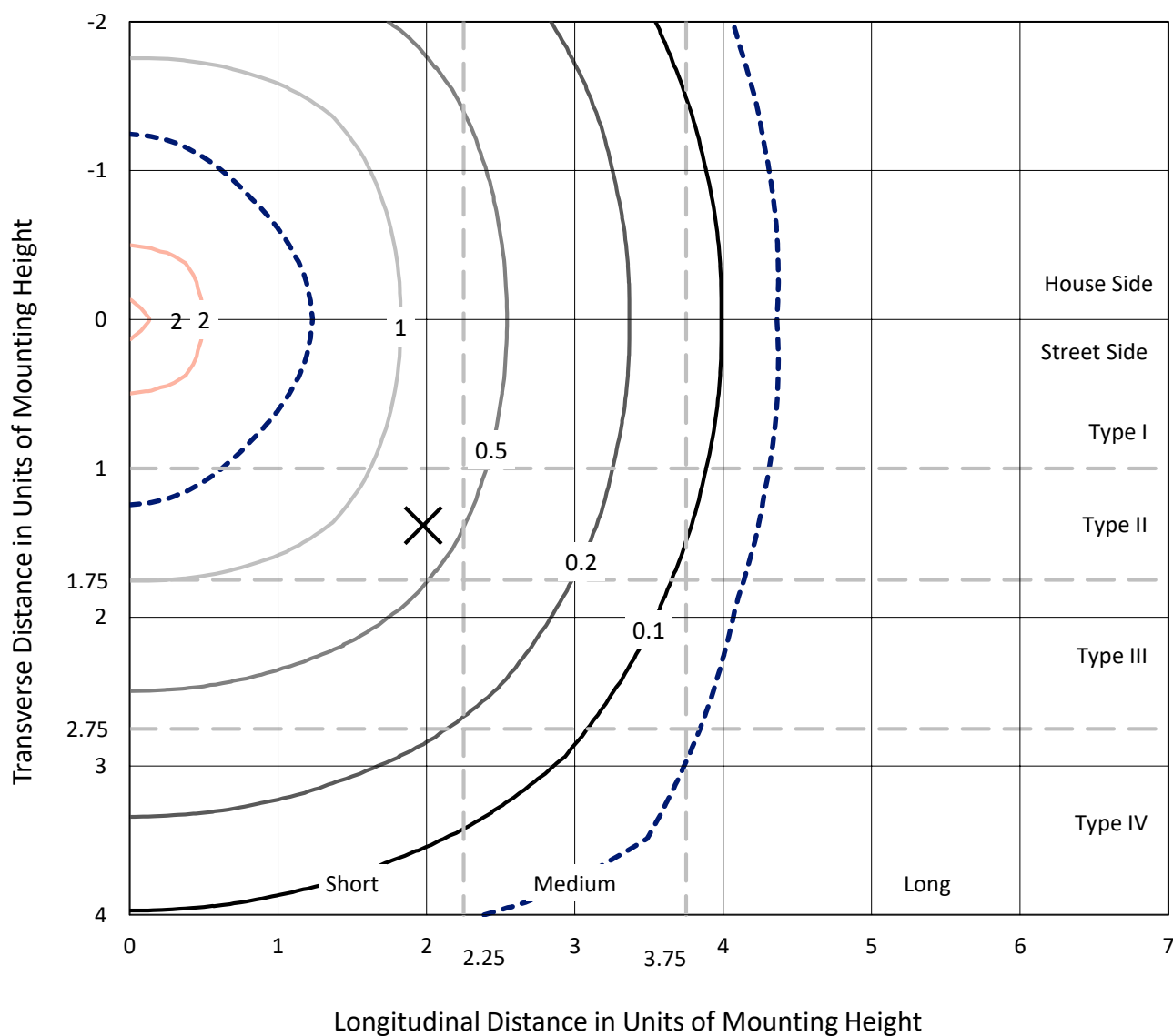
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

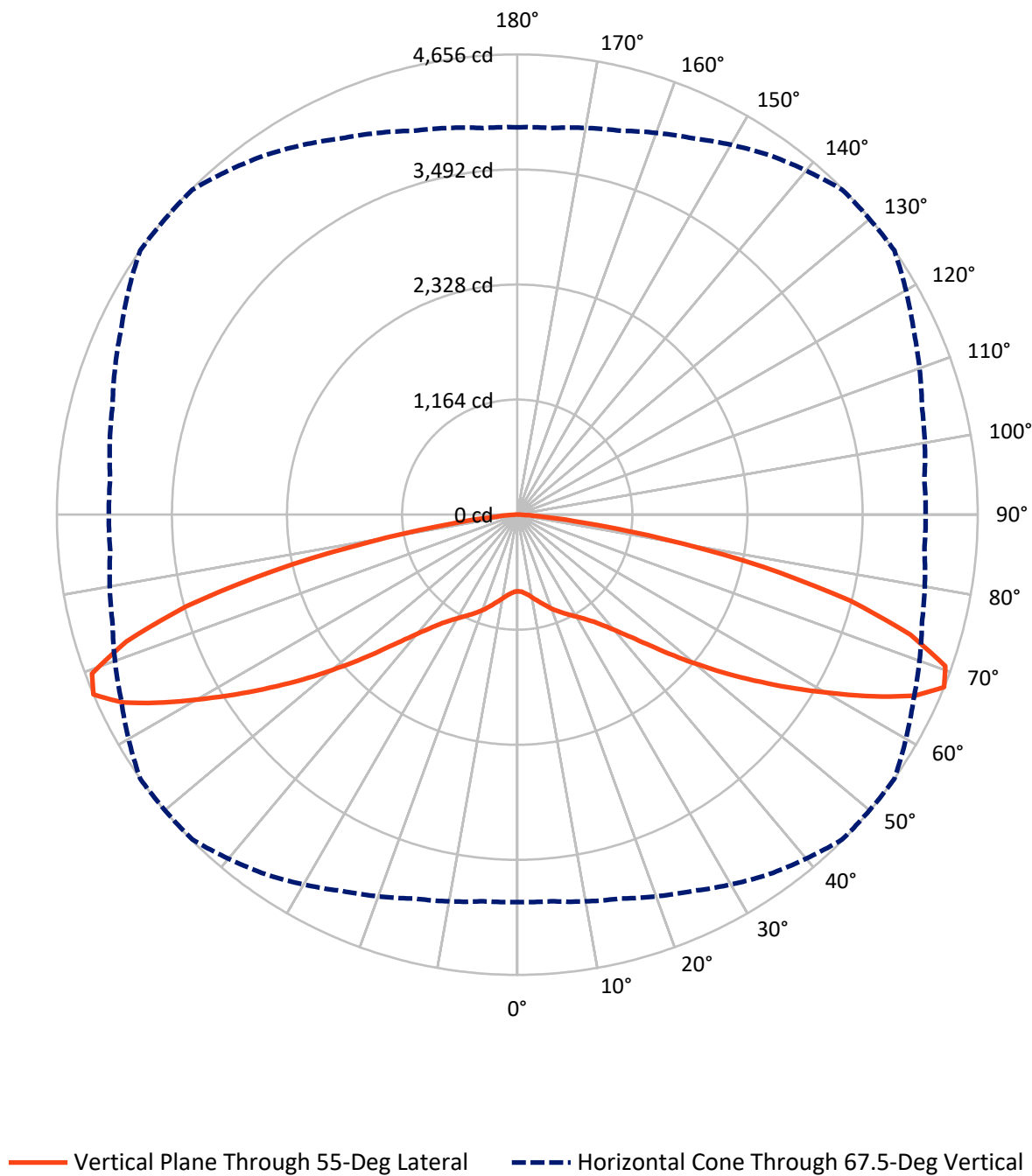


Based on 20 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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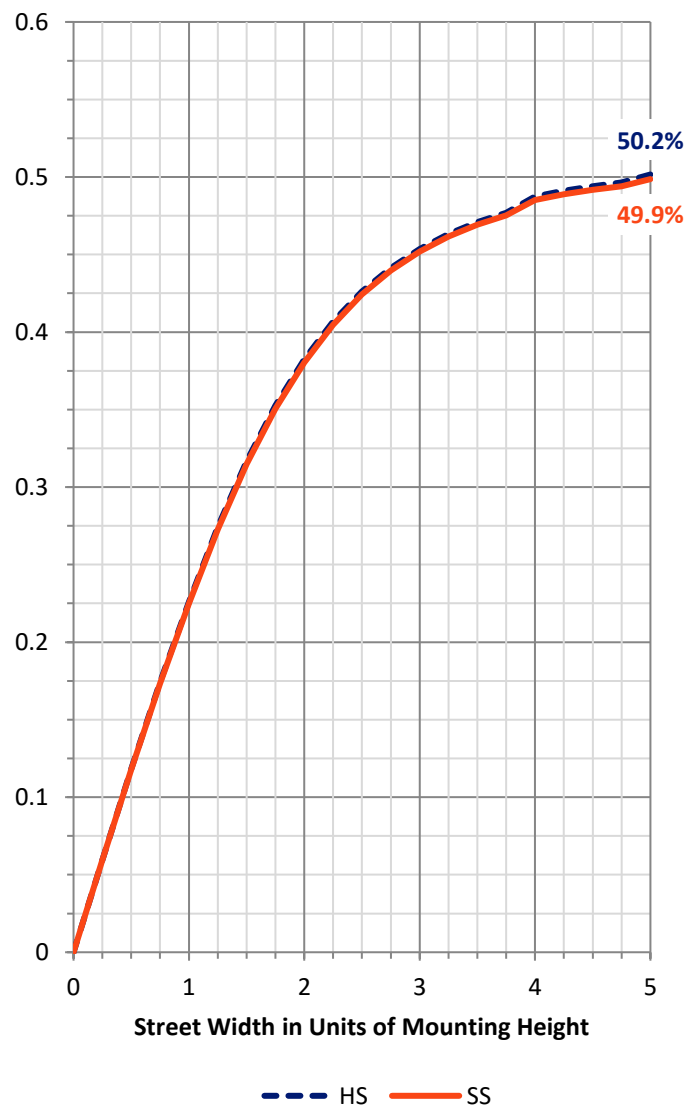
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6686.6	0.0	6686.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6686.6	0.0	6686.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	13373.2	0.0	13373.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	0.6
10°-20°	266.1	2.0
20°-30°	511.6	3.8
30°-40°	838.1	6.3
40°-50°	1457.0	10.9
50°-60°	2600.7	19.4
60°-70°	4015.3	30.0
70°-80°	3250.4	24.3
80°-90°	356.1	2.7
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°	13373.2	100.0
0°-180°	13373.2	100.0

Coefficient of Utilization



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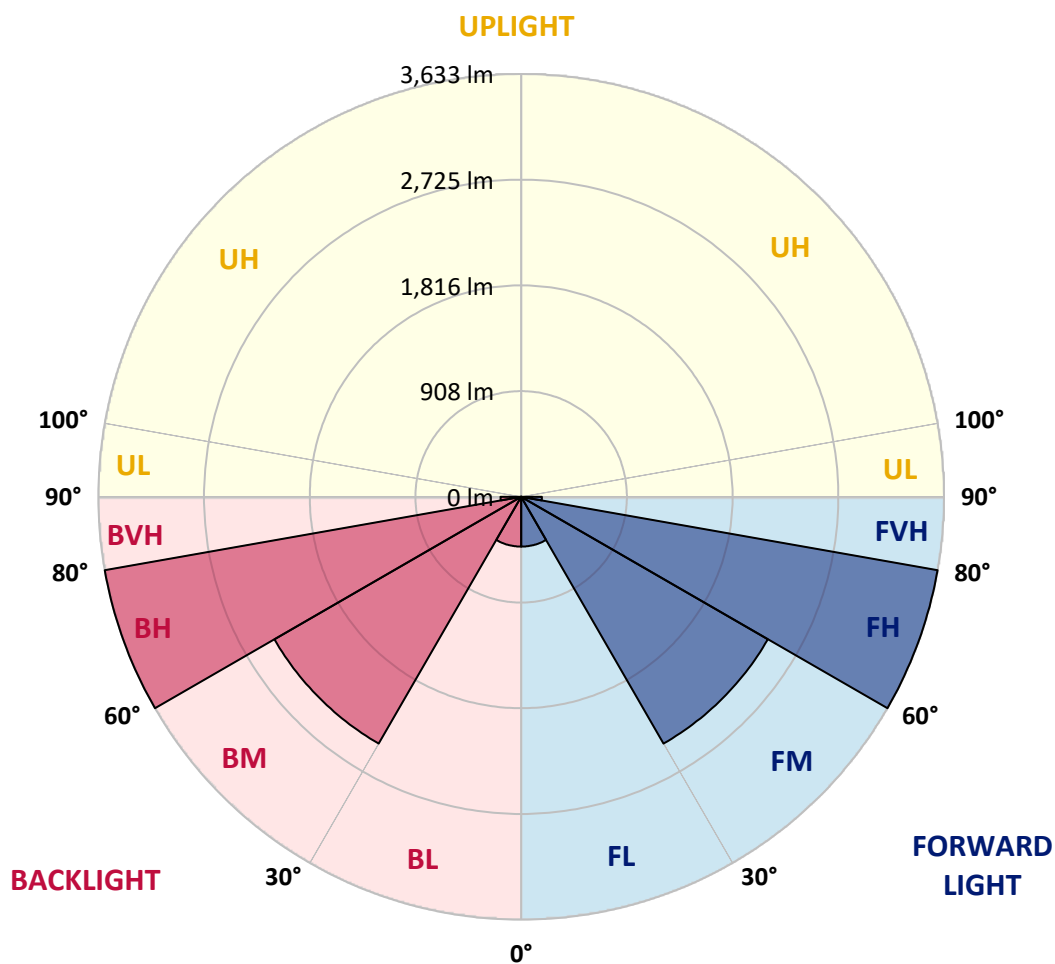
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	427.8	3.2			
FM	(30°-60°)	2447.9	18.3			
FH	(60°-80°)	3632.8	27.2			G2/5000
FVH	(80°-90°)	178.0	1.3			G2/225
BL	(0°-30°)	427.8	3.2	B1/500		
BM	(30°-60°)	2447.9	18.3	B2/2500		
BH	(60°-80°)	3632.8	27.2	B4/5000		G2/5000
BVH	(80°-90°)	178.0	1.3			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	775.9	775.9	775.9	775.9	775.9	775.9	775.9	775.9	775.9	775.9	775.9
2.5°	781.0	781.9	781.0	781.0	780.2	780.2	780.2	781.0	781.0	782.7	781.9
5°	797.1	797.9	796.3	797.9	797.9	798.8	797.9	797.1	797.9	798.8	796.3
7.5°	820.0	821.7	820.8	821.7	822.5	821.7	821.7	820.8	822.5	821.7	820.0
10°	849.6	851.3	850.5	852.2	853.0	853.9	853.9	852.2	851.3	851.3	850.5
12.5°	885.2	885.2	885.2	887.7	889.4	891.1	890.3	888.6	886.0	886.9	883.5
15°	924.2	925.9	925.9	926.7	930.9	931.8	930.9	928.4	927.5	925.9	924.2
17.5°	967.4	968.2	969.1	969.9	975.0	977.5	974.1	969.9	969.9	969.1	969.1
20°	1012.3	1011.4	1013.1	1014.8	1018.2	1020.7	1019.9	1015.6	1012.3	1014.8	1013.9
22.5°	1053.8	1054.6	1055.5	1058.0	1063.9	1064.8	1062.2	1058.8	1054.6	1055.5	1055.5
25°	1092.7	1093.6	1095.3	1098.7	1105.4	1109.7	1106.3	1101.2	1095.3	1095.3	1096.1
27.5°	1132.5	1133.4	1134.2	1140.2	1148.6	1153.7	1151.2	1142.7	1135.9	1134.2	1131.7
30°	1176.6	1176.6	1178.3	1185.9	1196.9	1202.8	1199.5	1189.3	1179.1	1177.4	1177.4
32.5°	1232.5	1229.1	1231.6	1241.8	1253.7	1260.4	1257.9	1246.0	1233.3	1230.8	1230.8
35°	1299.4	1297.7	1299.4	1311.3	1325.7	1335.8	1329.9	1318.9	1305.3	1302.8	1301.1
37.5°	1379.0	1379.9	1385.0	1398.5	1418.0	1430.7	1424.8	1407.0	1390.9	1390.9	1390.9
40°	1479.8	1481.5	1491.7	1512.0	1540.0	1551.0	1544.2	1522.2	1503.6	1496.8	1498.5
42.5°	1617.1	1616.2	1632.3	1657.7	1690.8	1706.9	1695.8	1672.1	1645.0	1634.0	1634.9
45°	1778.9	1790.7	1807.7	1839.8	1881.4	1909.3	1889.8	1863.6	1822.9	1806.8	1806.0
47.5°	1974.5	1987.2	2008.4	2061.8	2111.8	2145.6	2130.4	2087.2	2028.7	2005.9	1997.4
50°	2197.3	2213.4	2240.5	2309.1	2380.3	2418.4	2391.3	2334.5	2271.9	2237.1	2228.7
52.5°	2448.0	2453.1	2493.8	2576.8	2664.9	2711.5	2681.0	2613.2	2532.8	2500.6	2476.8
55°	2725.9	2730.1	2776.7	2870.7	2970.7	3025.8	2986.8	2901.2	2826.7	2770.8	2775.9
57.5°	2983.4	2996.1	3064.7	3174.8	3292.6	3359.5	3317.1	3226.5	3148.6	3085.0	3092.7
60°	3258.7	3272.3	3344.3	3475.6	3634.8	3723.7	3668.7	3571.3	3490.8	3430.7	3423.0
62.5°	3550.9	3558.6	3637.3	3755.1	3958.4	4101.5	4049.0	3941.4	3847.4	3788.1	3782.2
65°	3821.2	3831.3	3898.2	4027.0	4236.2	4445.5	4415.8	4266.7	4139.7	4054.1	4042.2
67.5°	3919.4	3926.2	4020.2	4200.6	4441.2	4647.9	4656.4	4421.7	4237.1	4132.9	4130.3
70°	3804.2	3809.3	3929.6	4143.9	4450.5	4622.5	4592.0	4356.5	4129.5	4001.6	3988.9
72.5°	3545.9	3546.7	3656.8	3838.9	4146.4	4287.0	4157.4	4027.8	3793.2	3697.5	3672.1
75°	3075.7	3076.6	3152.8	3273.9	3493.3	3622.9	3475.6	3357.0	3218.9	3162.1	3132.5
77.5°	2115.1	2127.9	2206.6	2346.4	2587.0	2730.1	2537.0	2321.8	2238.0	2189.7	2160.9
80°	1018.2	1037.7	1128.3	1266.4	1518.0	1746.7	1508.6	1243.5	1080.0	947.0	970.7
82.5°	271.9	275.3	353.2	507.4	707.3	830.1	674.3	471.8	297.3	199.9	183.0
85°	72.0	76.2	106.7	146.5	222.8	283.8	216.9	138.1	105.0	77.9	71.2
87.5°	19.5	22.9	37.3	44.9	55.9	44.9	55.9	48.3	46.6	24.6	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)