

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: P157568

Luminaire Tested: **VST-E05-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157568
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-E05-LED-E-U-5WQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13324.5 lumens
Efficiency: N/A
Efficacy: 104.7 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): 127.3
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



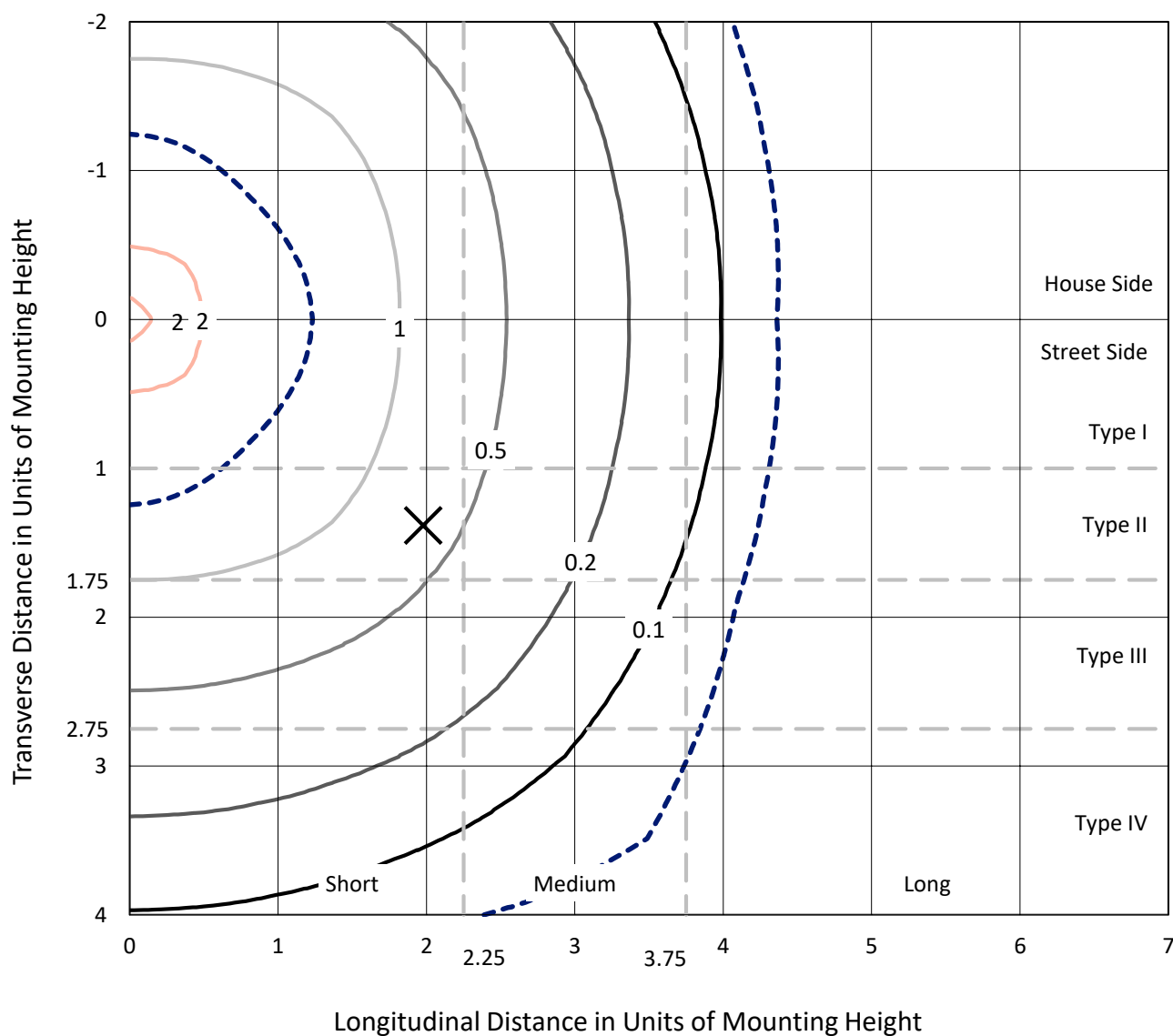
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

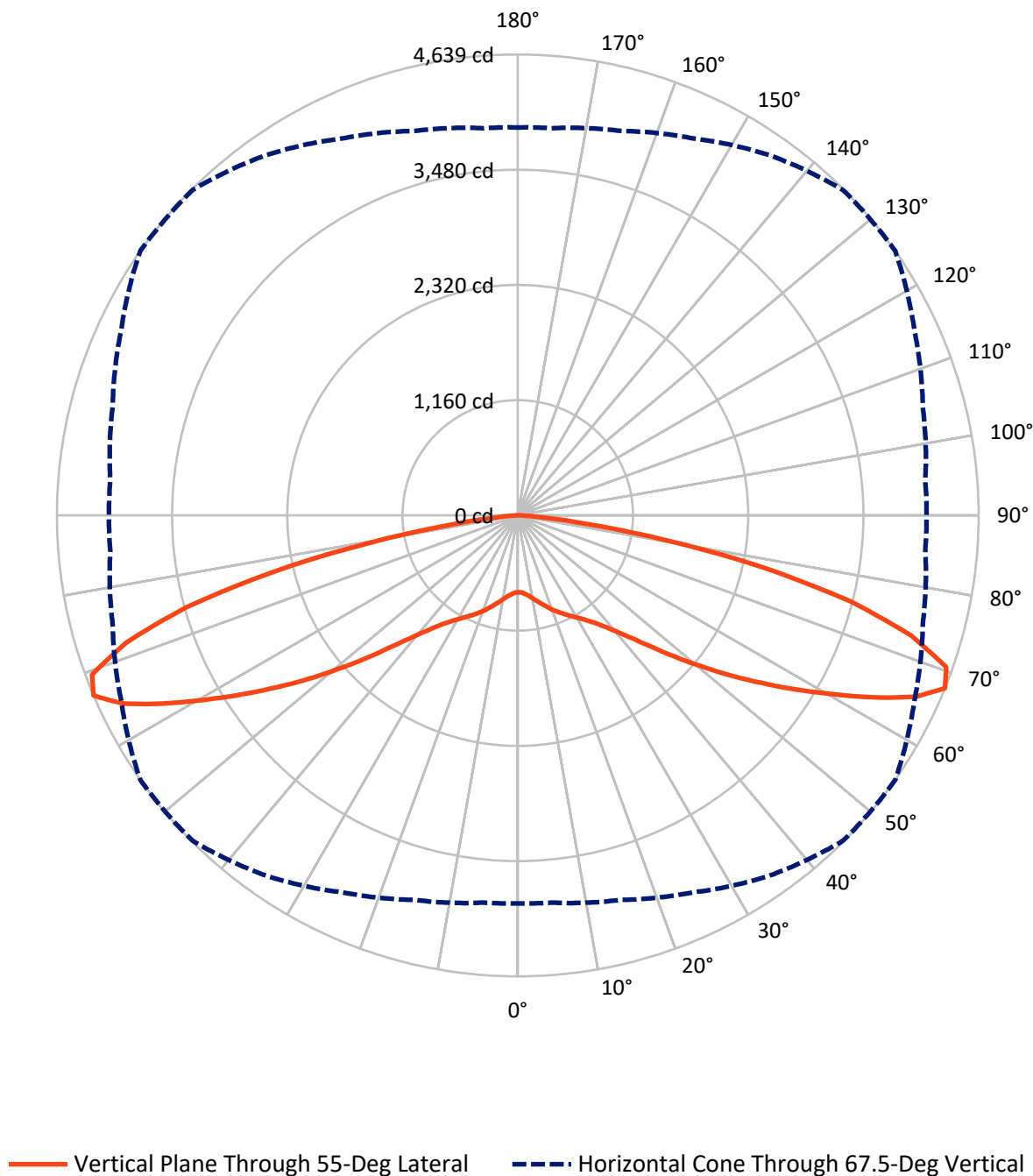


Based on 20 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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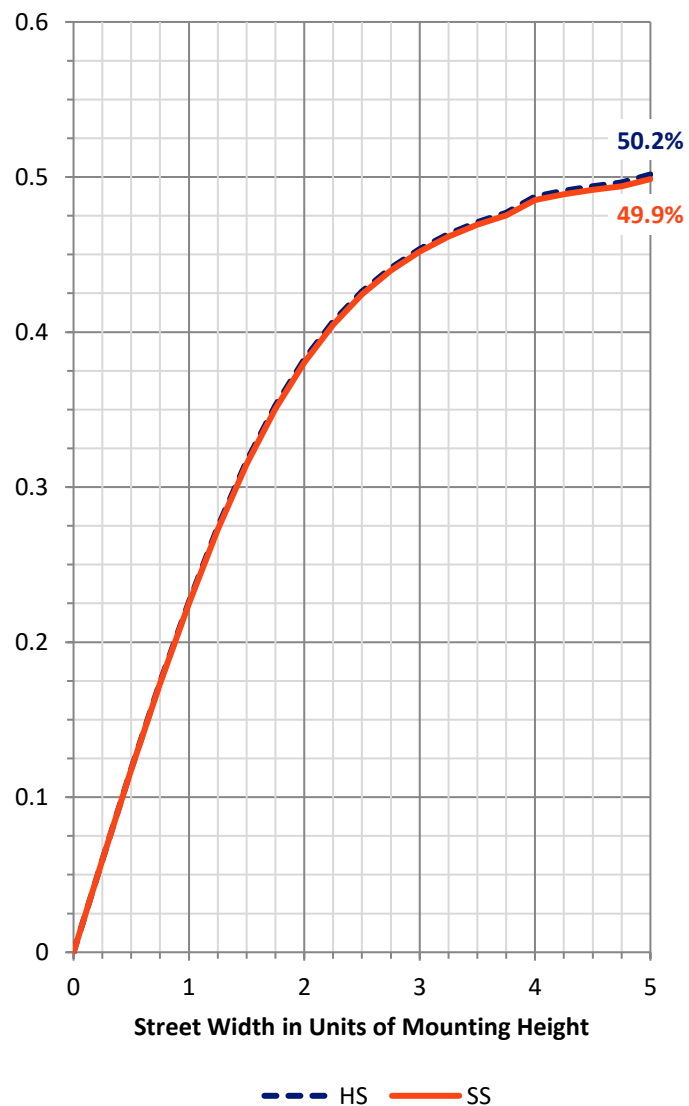
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6662.2	0.0	6662.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6662.2	0.0	6662.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	13324.5	0.0	13324.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	0.6
10°-20°	265.1	2.0
20°-30°	509.8	3.8
30°-40°	835.1	6.3
40°-50°	1451.7	10.9
50°-60°	2591.2	19.4
60°-70°	4000.7	30.0
70°-80°	3238.6	24.3
80°-90°	354.7	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°	13324.5	100.0
0°-180°	13324.5	100.0

Coefficient of Utilization



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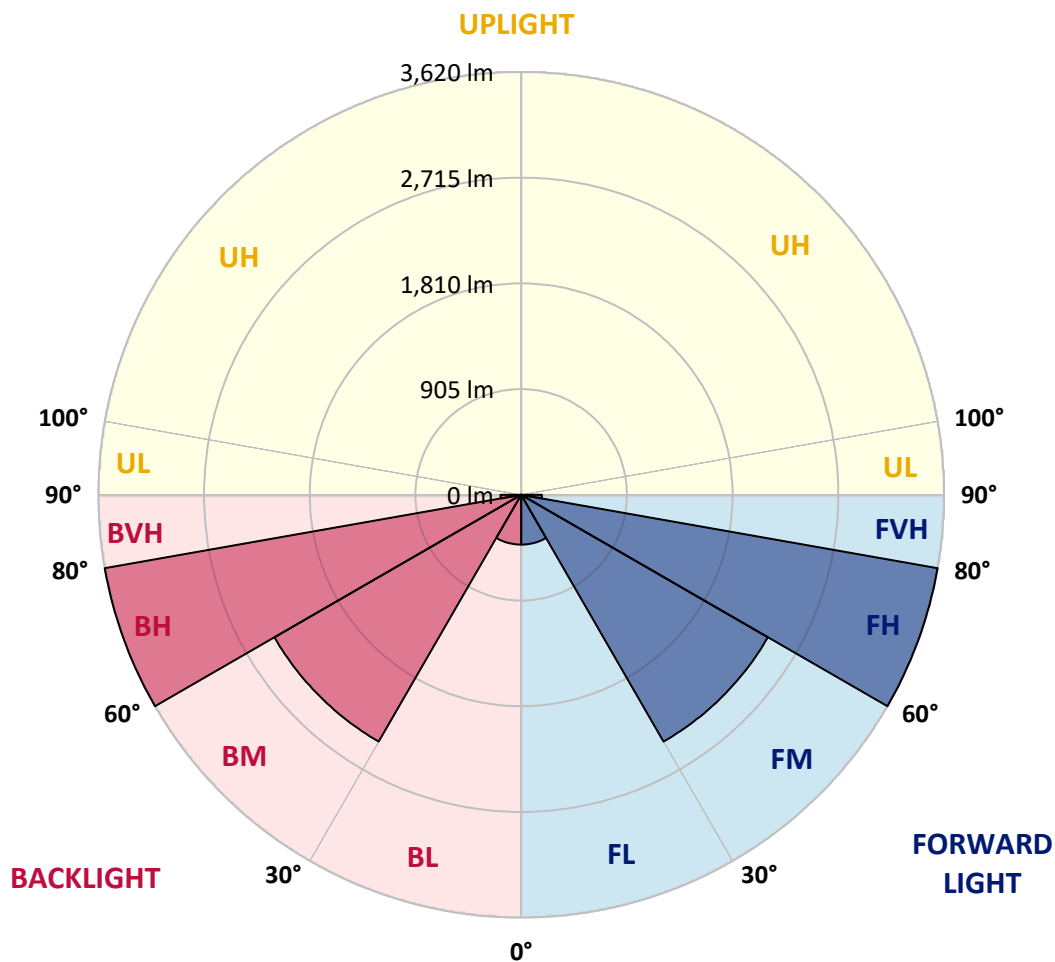
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	426.2	3.2			
FM	(30°-60°)	2439.0	18.3			
FH	(60°-80°)	3619.6	27.2			G2/5000
FVH	(80°-90°)	177.4	1.3			G2/225
BL	(0°-30°)	426.2	3.2	B1/500		
BM	(30°-60°)	2439.0	18.3	B2/2500		
BH	(60°-80°)	3619.6	27.2	B4/5000		G2/5000
BVH	(80°-90°)	177.4	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°	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1
2.5°	778.2	779.0	778.2	778.2	777.3	777.3	777.3	778.2	778.2	779.8	779.0
5°	794.2	795.0	793.4	795.0	795.0	795.9	795.0	794.2	795.0	795.9	793.4
7.5°	817.0	818.7	817.8	818.7	819.5	818.7	818.7	817.8	819.5	818.7	817.0
10°	846.5	848.2	847.4	849.1	849.9	850.7	850.7	849.1	848.2	848.2	847.4
12.5°	882.0	882.0	882.0	884.5	886.2	887.9	887.0	885.3	882.8	883.7	880.3
15°	920.8	922.5	922.5	923.3	927.5	928.4	927.5	925.0	924.2	922.5	920.8
17.5°	963.8	964.7	965.5	966.4	971.4	974.0	970.6	966.4	966.4	965.5	965.5
20°	1008.6	1007.7	1009.4	1011.1	1014.5	1017.0	1016.2	1011.9	1008.6	1011.1	1010.3
22.5°	1049.9	1050.8	1051.6	1054.1	1060.1	1060.9	1058.4	1055.0	1050.8	1051.6	1051.6
25°	1088.7	1089.6	1091.3	1094.7	1101.4	1105.6	1102.3	1097.2	1091.3	1091.3	1092.1
27.5°	1128.4	1129.3	1130.1	1136.0	1144.5	1149.5	1147.0	1138.5	1131.8	1130.1	1127.6
30°	1172.3	1172.3	1174.0	1181.6	1192.6	1198.5	1195.1	1185.0	1174.8	1173.1	1173.1
32.5°	1228.0	1224.6	1227.2	1237.3	1249.1	1255.9	1253.3	1241.5	1228.9	1226.3	1226.3
35°	1294.7	1293.0	1294.7	1306.5	1320.8	1331.0	1325.1	1314.1	1300.6	1298.1	1296.4
37.5°	1374.0	1374.9	1379.9	1393.4	1412.8	1425.5	1419.6	1401.9	1385.8	1385.8	1385.8
40°	1474.5	1476.1	1486.3	1506.5	1534.4	1545.3	1538.6	1516.7	1498.1	1491.3	1493.0
42.5°	1611.2	1610.3	1626.4	1651.7	1684.6	1700.6	1689.7	1666.0	1639.0	1628.1	1628.9
45°	1772.4	1784.2	1801.1	1833.1	1874.5	1902.4	1882.9	1856.8	1816.3	1800.2	1799.4
47.5°	1967.3	1980.0	2001.1	2054.3	2104.1	2137.8	2122.6	2079.6	2021.4	1998.6	1990.1
50°	2189.3	2205.3	2232.4	2300.7	2371.6	2409.6	2382.6	2326.0	2263.6	2229.0	2220.5
52.5°	2439.1	2444.2	2484.7	2567.4	2655.2	2701.6	2671.2	2603.7	2523.5	2491.5	2467.8
55°	2716.0	2720.2	2766.6	2860.3	2959.9	3014.7	2975.9	2890.7	2816.4	2760.7	2765.8
57.5°	2972.5	2985.2	3053.6	3163.3	3280.6	3347.3	3305.1	3214.8	3137.1	3073.8	3081.4
60°	3246.8	3260.3	3332.1	3462.9	3621.6	3710.2	3655.3	3558.3	3478.1	3418.2	3410.6
62.5°	3538.0	3545.6	3624.1	3741.4	3944.0	4086.6	4034.3	3927.1	3833.4	3774.3	3768.4
65°	3807.2	3817.4	3884.0	4012.3	4220.8	4429.3	4399.7	4251.2	4124.6	4039.3	4027.5
67.5°	3905.1	3911.9	4005.6	4185.4	4425.0	4631.0	4639.4	4405.6	4221.6	4117.8	4115.3
70°	3790.4	3795.4	3915.3	4128.8	4434.3	4605.7	4575.3	4340.6	4114.5	3987.0	3974.4
72.5°	3532.9	3533.8	3643.5	3825.0	4131.3	4271.4	4142.3	4013.2	3779.4	3684.0	3658.7
75°	3064.5	3065.4	3141.3	3262.0	3480.6	3609.7	3462.9	3344.7	3207.2	3150.6	3121.1
77.5°	2107.4	2120.1	2198.6	2337.9	2577.5	2720.2	2527.8	2313.4	2229.8	2181.7	2153.0
80°	1014.5	1033.9	1124.2	1261.8	1512.4	1740.3	1503.1	1239.0	1076.1	943.6	967.2
82.5°	270.9	274.3	351.9	505.6	704.7	827.1	671.8	470.1	296.2	199.2	182.3
85°	71.7	76.0	106.3	146.0	222.0	282.7	216.1	137.6	104.7	77.6	70.9
87.5°	19.4	22.8	37.1	44.7	55.7	44.7	55.7	48.1	46.4	24.5	17.7
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)