

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: P157571

Luminaire Tested: **VST-E05-LED-E-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157571
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-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (105) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16199.6 lumens
Efficiency: N/A
Efficacy: 127.3 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): 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



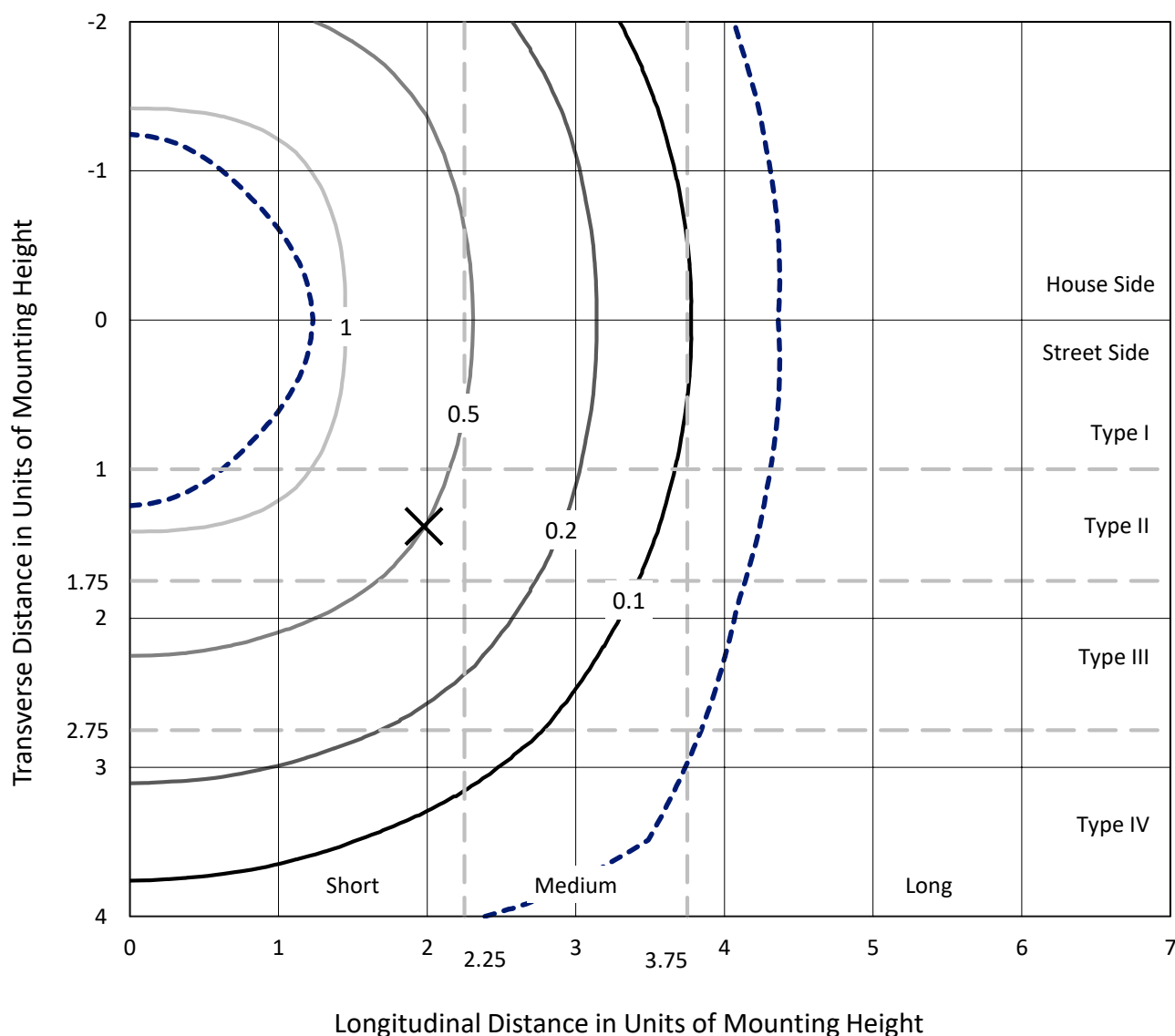
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

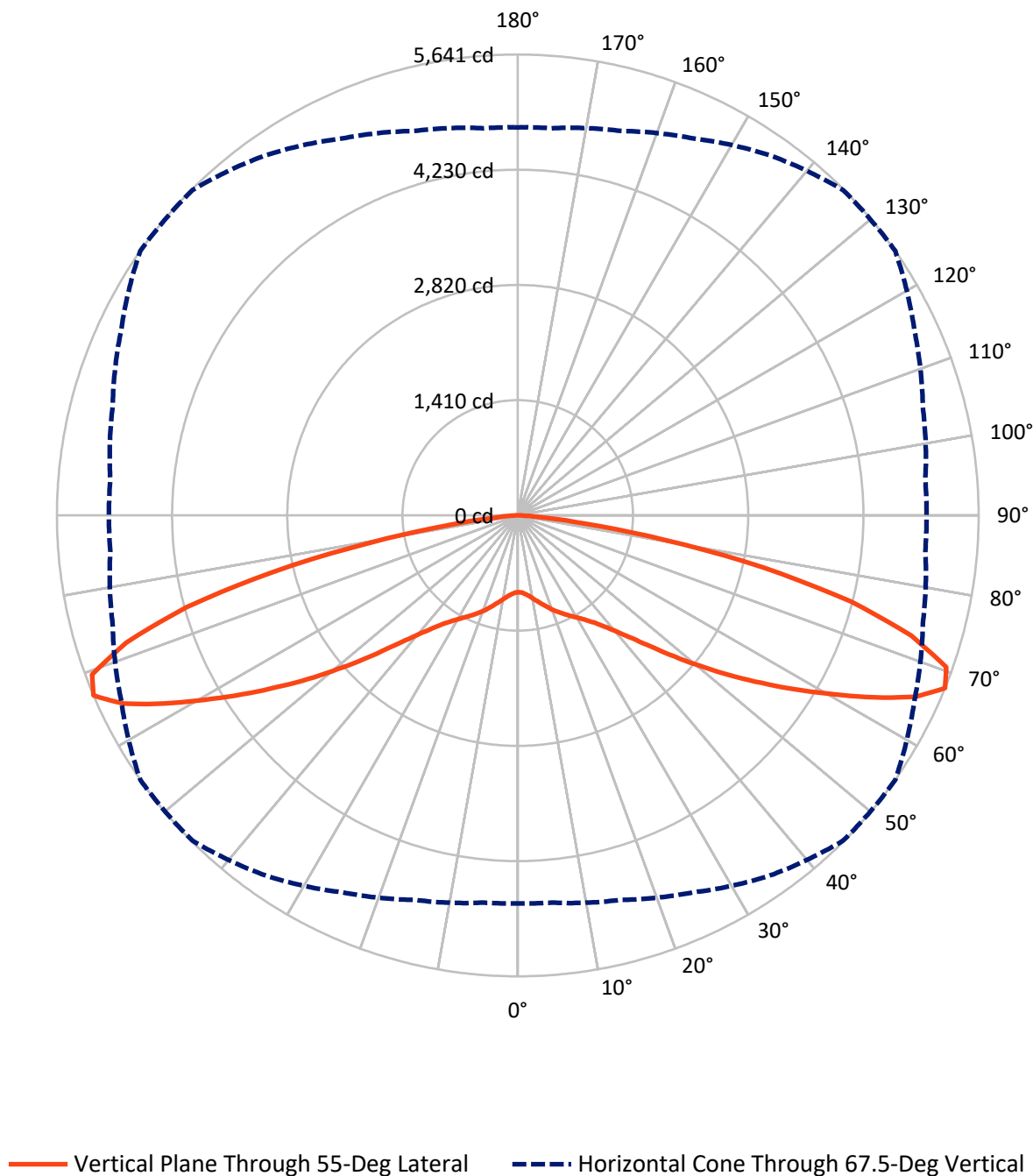


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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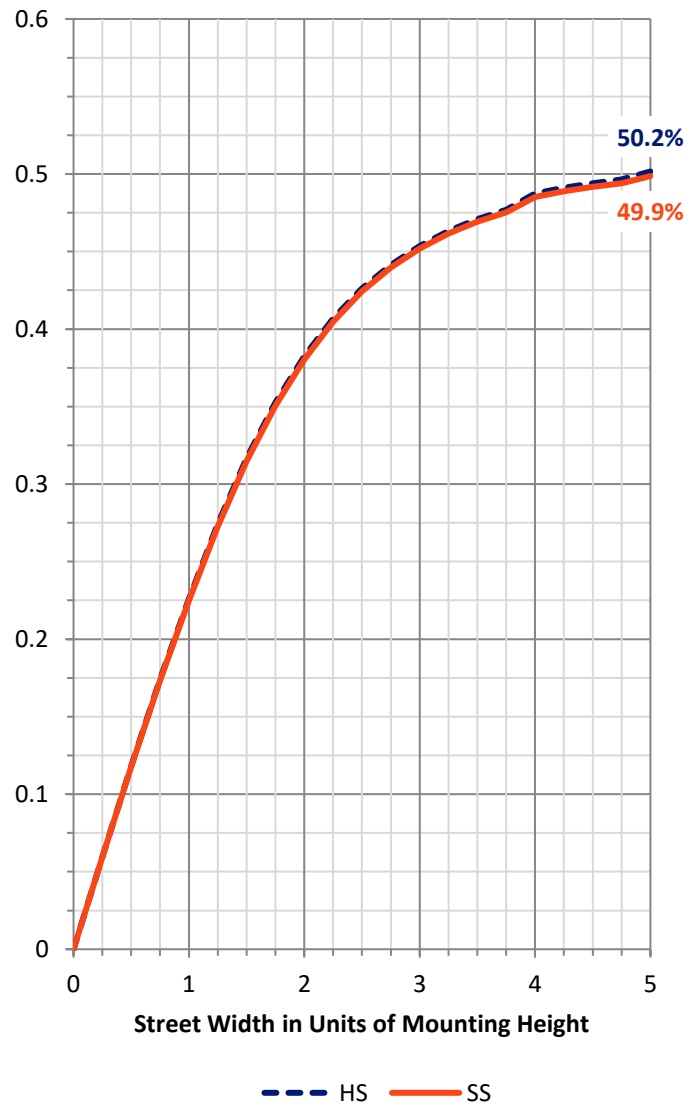
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8099.8	0.0	8099.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8099.8	0.0	8099.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	16199.6	0.0	16199.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	0.6
10°-20°	322.3	2.0
20°-30°	619.8	3.8
30°-40°	1015.3	6.3
40°-50°	1765.0	10.9
50°-60°	3150.3	19.4
60°-70°	4864.0	30.0
70°-80°	3937.4	24.3
80°-90°	431.3	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°	16199.6	100.0
0°-180°	16199.6	100.0

Coefficient of Utilization



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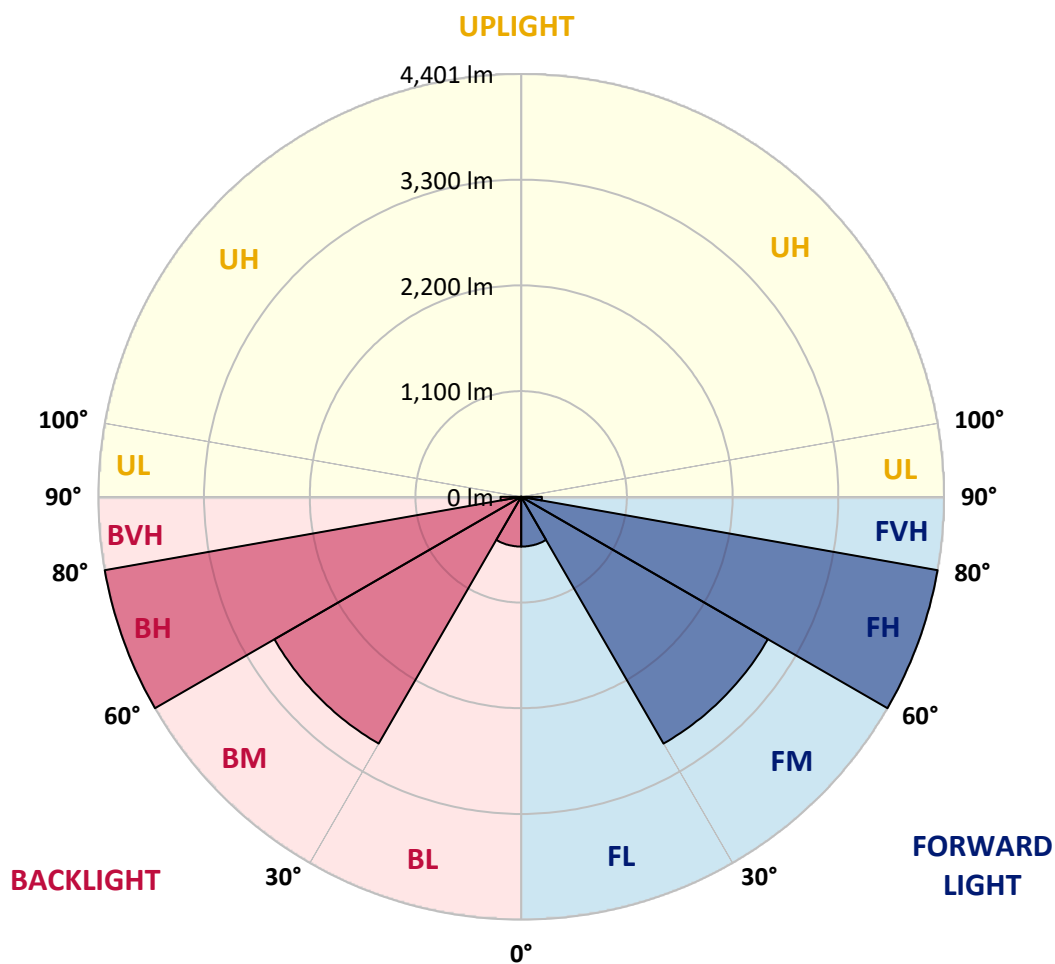
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	518.2	3.2			
FM	(30°-60°)	2965.3	18.3			
FH	(60°-80°)	4400.7	27.2			G2/5000
FVH	(80°-90°)	215.7	1.3			G2/225
BL	(0°-30°)	518.2	3.2	B2/1000		
BM	(30°-60°)	2965.3	18.3	B3/5000		
BH	(60°-80°)	4400.7	27.2	B4/5000		G2/5000
BVH	(80°-90°)	215.7	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°	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9
2.5°	946.1	947.1	946.1	946.1	945.0	945.0	945.0	946.1	946.1	948.1	947.1
5°	965.6	966.6	964.5	966.6	966.6	967.6	966.6	965.6	966.6	967.6	964.5
7.5°	993.3	995.3	994.3	995.3	996.3	995.3	995.3	994.3	996.3	995.3	993.3
10°	1029.2	1031.2	1030.2	1032.3	1033.3	1034.3	1034.3	1032.3	1031.2	1031.2	1030.2
12.5°	1072.3	1072.3	1072.3	1075.4	1077.4	1079.5	1078.4	1076.4	1073.3	1074.3	1070.2
15°	1119.5	1121.5	1121.5	1122.6	1127.7	1128.7	1127.7	1124.6	1123.6	1121.5	1119.5
17.5°	1171.8	1172.8	1173.9	1174.9	1181.0	1184.1	1180.0	1174.9	1174.9	1173.9	1173.9
20°	1226.2	1225.2	1227.2	1229.3	1233.4	1236.5	1235.4	1230.3	1226.2	1229.3	1228.2
22.5°	1276.5	1277.5	1278.5	1281.6	1288.8	1289.8	1286.7	1282.6	1277.5	1278.5	1278.5
25°	1323.7	1324.7	1326.8	1330.9	1339.1	1344.2	1340.1	1333.9	1326.8	1326.8	1327.8
27.5°	1371.9	1372.9	1374.0	1381.1	1391.4	1397.6	1394.5	1384.2	1376.0	1374.0	1370.9
30°	1425.3	1425.3	1427.3	1436.5	1449.9	1457.1	1453.0	1440.7	1428.3	1426.3	1426.3
32.5°	1493.0	1488.9	1492.0	1504.3	1518.6	1526.8	1523.8	1509.4	1494.0	1490.9	1490.9
35°	1574.0	1572.0	1574.0	1588.4	1605.9	1618.2	1611.0	1597.6	1581.2	1578.2	1576.1
37.5°	1670.5	1671.5	1677.7	1694.1	1717.7	1733.1	1725.9	1704.4	1684.9	1684.9	1684.9
40°	1792.6	1794.7	1807.0	1831.6	1865.5	1878.8	1870.6	1843.9	1821.3	1813.1	1815.2
42.5°	1958.8	1957.8	1977.3	2008.1	2048.1	2067.6	2054.3	2025.5	1992.7	1979.4	1980.4
45°	2154.8	2169.2	2189.7	2228.7	2279.0	2312.8	2289.2	2257.4	2208.2	2188.7	2187.7
47.5°	2391.9	2407.2	2432.9	2497.5	2558.1	2599.1	2580.7	2528.3	2457.5	2429.8	2419.6
50°	2661.7	2681.2	2714.0	2797.2	2883.4	2929.5	2896.7	2827.9	2752.0	2709.9	2699.7
52.5°	2965.4	2971.6	3020.9	3121.4	3228.1	3284.6	3247.6	3165.5	3068.1	3029.1	3000.3
55°	3302.0	3307.1	3363.6	3477.5	3598.6	3665.2	3618.0	3514.4	3424.1	3356.4	3362.5
57.5°	3613.9	3629.3	3712.4	3845.8	3988.5	4069.5	4018.2	3908.4	3814.0	3737.1	3746.3
60°	3947.4	3963.8	4051.1	4210.1	4403.0	4510.8	4444.1	4326.1	4228.6	4155.7	4146.5
62.5°	4301.4	4310.7	4406.1	4548.7	4795.0	4968.4	4904.8	4774.5	4660.6	4588.7	4581.6
65°	4628.8	4641.1	4722.1	4878.1	5131.6	5385.0	5349.1	5168.5	5014.6	4910.9	4896.6
67.5°	4747.8	4756.0	4869.9	5088.5	5379.9	5630.2	5640.5	5356.3	5132.6	5006.4	5003.3
70°	4608.2	4614.4	4760.1	5019.7	5391.2	5599.5	5562.5	5277.3	5002.3	4847.3	4831.9
72.5°	4295.3	4296.3	4429.7	4650.3	5022.8	5193.1	5036.1	4879.1	4594.9	4479.0	4448.2
75°	3725.8	3726.8	3819.2	3965.9	4231.7	4388.7	4210.1	4066.5	3899.2	3830.5	3794.5
77.5°	2562.2	2577.6	2673.0	2842.3	3133.7	3307.1	3073.2	2812.6	2711.0	2652.5	2617.6
80°	1233.4	1257.0	1366.8	1534.0	1838.8	2115.8	1827.5	1506.3	1308.3	1147.2	1175.9
82.5°	329.4	333.5	427.9	614.6	856.8	1005.6	816.8	571.5	360.2	242.2	221.6
85°	87.2	92.3	129.3	177.5	269.9	343.7	262.7	167.3	127.2	94.4	86.2
87.5°	23.6	27.7	45.1	54.4	67.7	54.4	67.7	58.5	56.4	29.8	21.5
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)