

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: P157560

Luminaire Tested: **VST-E04-LED-E-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157560
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-E04-LED-E-U-5WQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12630 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 97.2
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



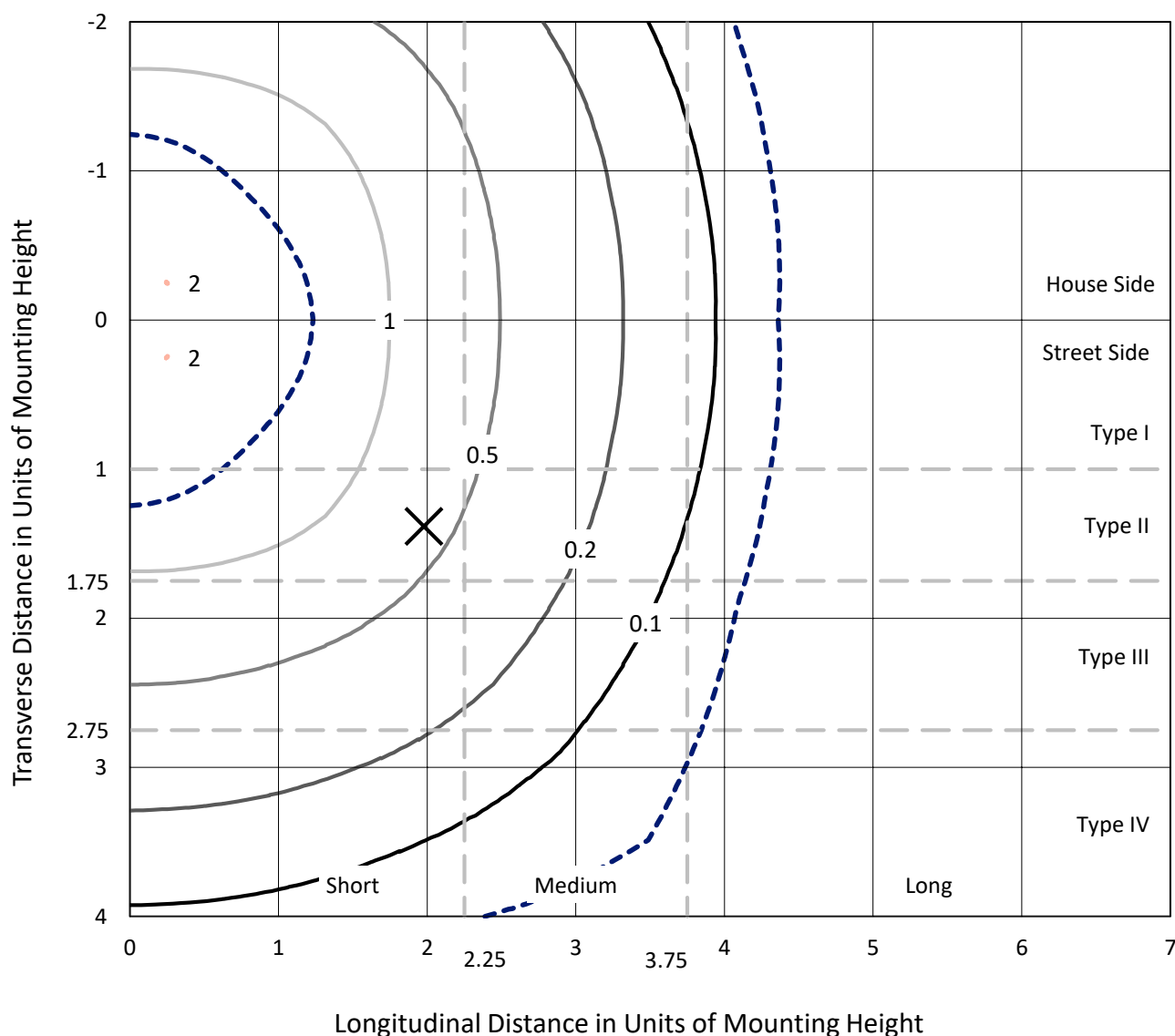
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

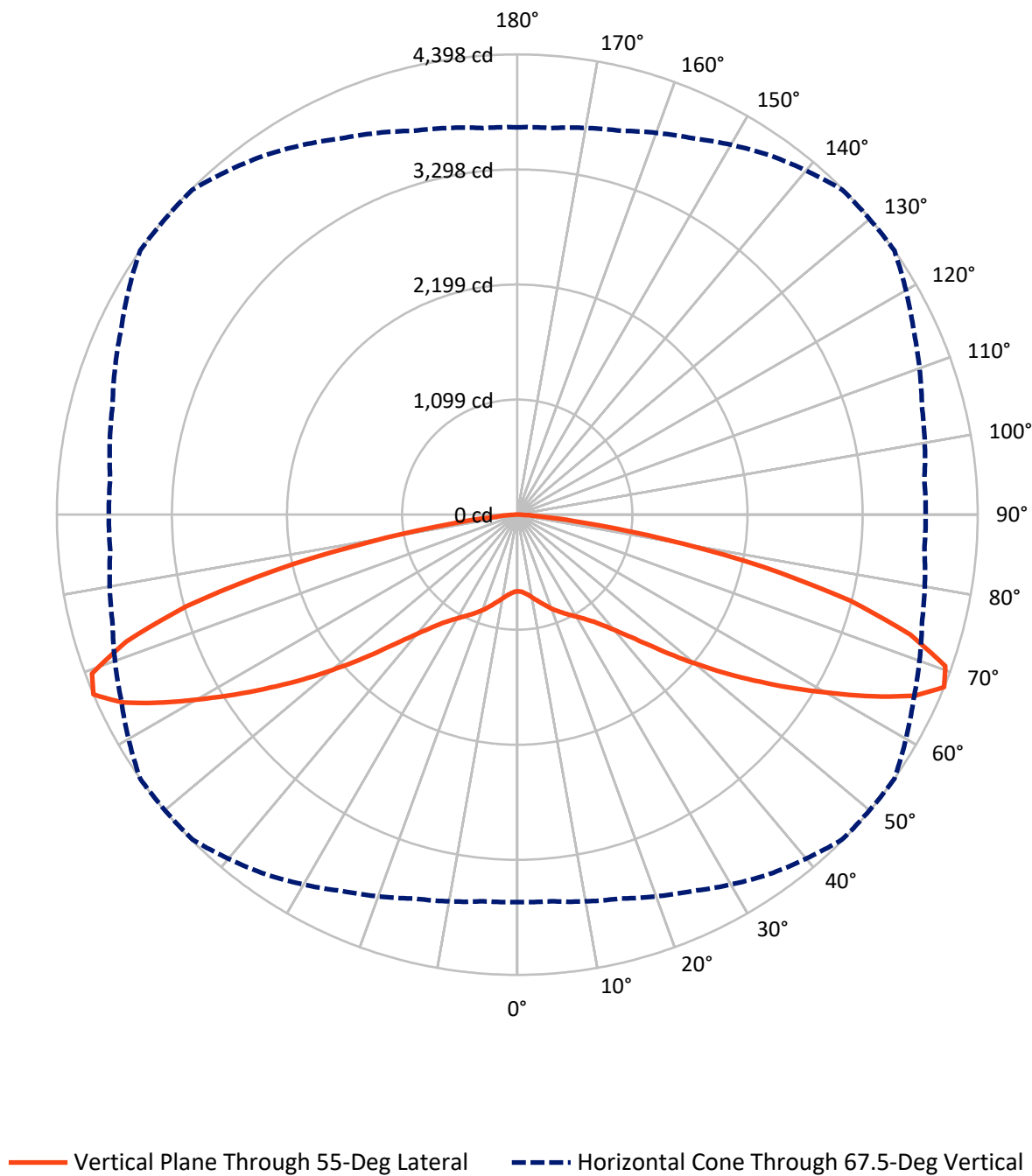


Based on 20 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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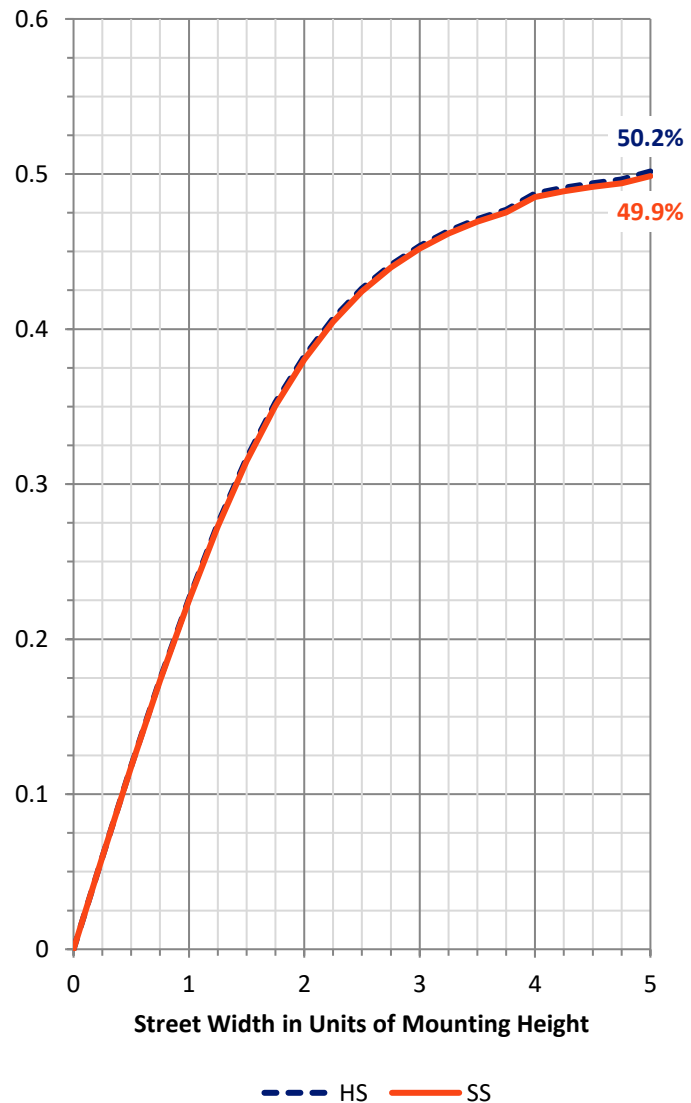
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6315.0	0.0	6315.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6315.0	0.0	6315.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12630.0	0.0	12630.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	0.6
10°-20°	251.3	2.0
20°-30°	483.2	3.8
30°-40°	791.5	6.3
40°-50°	1376.1	10.9
50°-60°	2456.2	19.4
60°-70°	3792.2	30.0
70°-80°	3069.8	24.3
80°-90°	336.3	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°	12630.0	100.0
0°-180°	12630.0	100.0

Coefficient of Utilization



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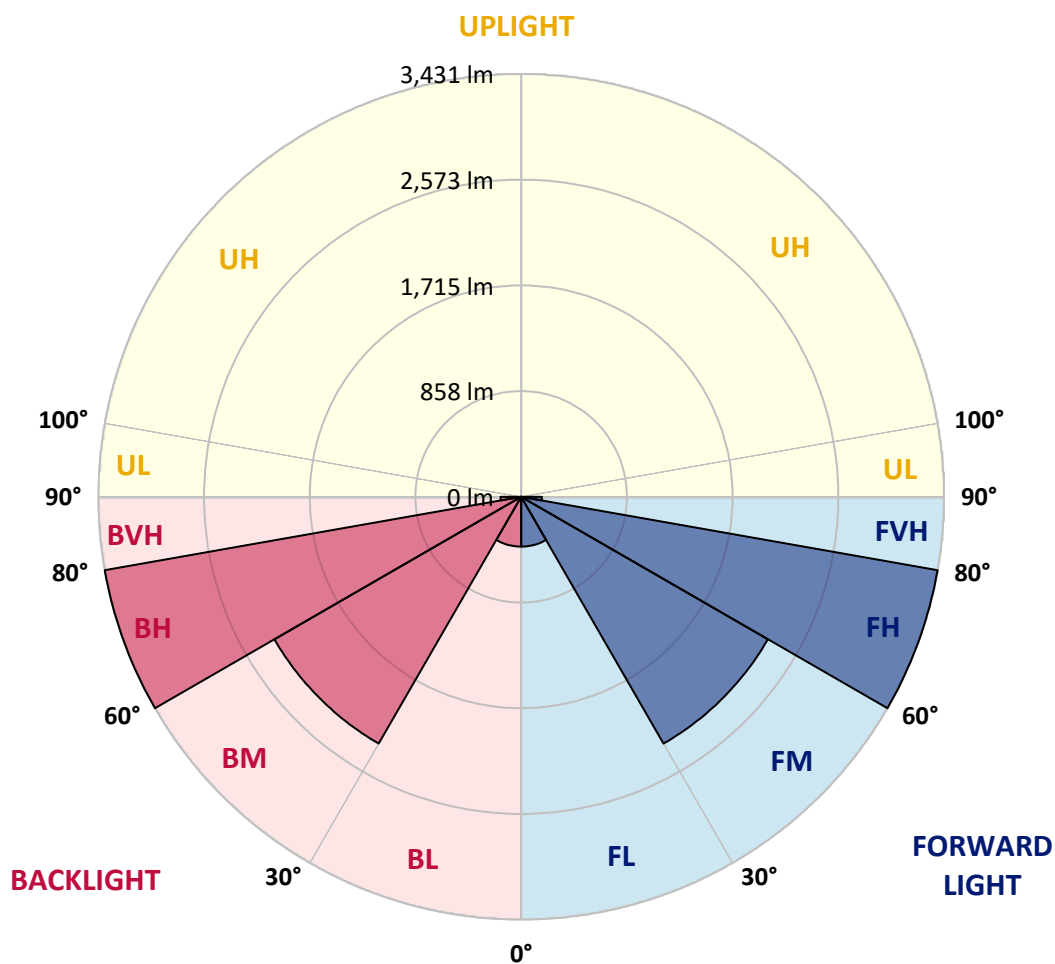
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	404.0	3.2			
FM	(30°-60°)	2311.9	18.3			
FH	(60°-80°)	3431.0	27.2			G2/5000
FVH	(80°-90°)	168.1	1.3			G2/225
BL	(0°-30°)	404.0	3.2	B1/500		
BM	(30°-60°)	2311.9	18.3	B2/2500		
BH	(60°-80°)	3431.0	27.2	B4/5000		G2/5000
BVH	(80°-90°)	168.1	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°	732.8	732.8	732.8	732.8	732.8	732.8	732.8	732.8	732.8	732.8	732.8
2.5°	737.6	738.4	737.6	737.6	736.8	736.8	736.8	737.6	737.6	739.2	738.4
5°	752.8	753.6	752.0	753.6	753.6	754.4	753.6	752.8	753.6	754.4	752.0
7.5°	774.4	776.0	775.2	776.0	776.8	776.0	776.0	775.2	776.8	776.0	774.4
10°	802.4	804.0	803.2	804.8	805.6	806.4	806.4	804.8	804.0	804.0	803.2
12.5°	836.0	836.0	836.0	838.4	840.0	841.6	840.8	839.2	836.8	837.6	834.4
15°	872.8	874.4	874.4	875.2	879.2	880.0	879.2	876.8	876.0	874.4	872.8
17.5°	913.6	914.4	915.2	916.0	920.8	923.2	920.0	916.0	916.0	915.2	915.2
20°	956.0	955.2	956.8	958.4	961.6	964.0	963.2	959.2	956.0	958.4	957.6
22.5°	995.2	996.0	996.8	999.2	1004.8	1005.6	1003.2	1000.0	996.0	996.8	996.8
25°	1032.0	1032.8	1034.4	1037.6	1044.0	1048.0	1044.8	1040.0	1034.4	1034.4	1035.2
27.5°	1069.6	1070.4	1071.2	1076.8	1084.8	1089.6	1087.2	1079.2	1072.8	1071.2	1068.8
30°	1111.2	1111.2	1112.8	1120.0	1130.4	1136.0	1132.8	1123.2	1113.6	1112.0	1112.0
32.5°	1164.0	1160.8	1163.2	1172.8	1184.0	1190.4	1188.0	1176.8	1164.8	1162.4	1162.4
35°	1227.2	1225.6	1227.2	1238.4	1252.0	1261.6	1256.0	1245.6	1232.8	1230.4	1228.8
37.5°	1302.4	1303.2	1308.0	1320.8	1339.2	1351.2	1345.6	1328.8	1313.6	1313.6	1313.6
40°	1397.6	1399.2	1408.8	1428.0	1454.4	1464.8	1458.4	1437.6	1420.0	1413.6	1415.2
42.5°	1527.2	1526.4	1541.6	1565.6	1596.8	1612.0	1601.6	1579.2	1553.6	1543.2	1544.0
45°	1680.0	1691.2	1707.2	1737.6	1776.8	1803.2	1784.8	1760.0	1721.6	1706.4	1705.6
47.5°	1864.8	1876.8	1896.8	1947.2	1994.4	2026.4	2012.0	1971.2	1916.0	1894.4	1886.4
50°	2075.2	2090.4	2116.0	2180.8	2248.0	2284.0	2258.4	2204.8	2145.6	2112.8	2104.8
52.5°	2312.0	2316.8	2355.2	2433.6	2516.8	2560.8	2532.0	2468.0	2392.0	2361.6	2339.2
55°	2574.4	2578.4	2622.4	2711.2	2805.6	2857.6	2820.8	2740.0	2669.6	2616.8	2621.6
57.5°	2817.6	2829.6	2894.4	2998.4	3109.6	3172.8	3132.8	3047.2	2973.6	2913.6	2920.8
60°	3077.6	3090.4	3158.4	3282.4	3432.8	3516.8	3464.8	3372.8	3296.8	3240.0	3232.8
62.5°	3353.6	3360.8	3435.2	3546.4	3738.4	3873.6	3824.0	3722.4	3633.6	3577.6	3572.0
65°	3608.8	3618.4	3681.6	3803.2	4000.8	4198.4	4170.4	4029.6	3909.6	3828.8	3817.6
67.5°	3701.6	3708.0	3796.8	3967.2	4194.4	4389.6	4397.6	4176.0	4001.6	3903.2	3900.8
70°	3592.8	3597.6	3711.2	3913.6	4203.2	4365.6	4336.8	4114.4	3900.0	3779.2	3767.2
72.5°	3348.8	3349.6	3453.6	3625.6	3916.0	4048.8	3926.4	3804.0	3582.4	3492.0	3468.0
75°	2904.8	2905.6	2977.6	3092.0	3299.2	3421.6	3282.4	3170.4	3040.0	2986.4	2958.4
77.5°	1997.6	2009.6	2084.0	2216.0	2443.2	2578.4	2396.0	2192.8	2113.6	2068.0	2040.8
80°	961.6	980.0	1065.6	1196.0	1433.6	1649.6	1424.8	1174.4	1020.0	894.4	916.8
82.5°	256.8	260.0	333.6	479.2	668.0	784.0	636.8	445.6	280.8	188.8	172.8
85°	68.0	72.0	100.8	138.4	210.4	268.0	204.8	130.4	99.2	73.6	67.2
87.5°	18.4	21.6	35.2	42.4	52.8	42.4	52.8	45.6	44.0	23.2	16.8
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)