

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: P157561

Luminaire Tested: **VST-E04-LED-E-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157561
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-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12959.7 lumens
Efficiency: N/A
Efficacy: 133.3 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



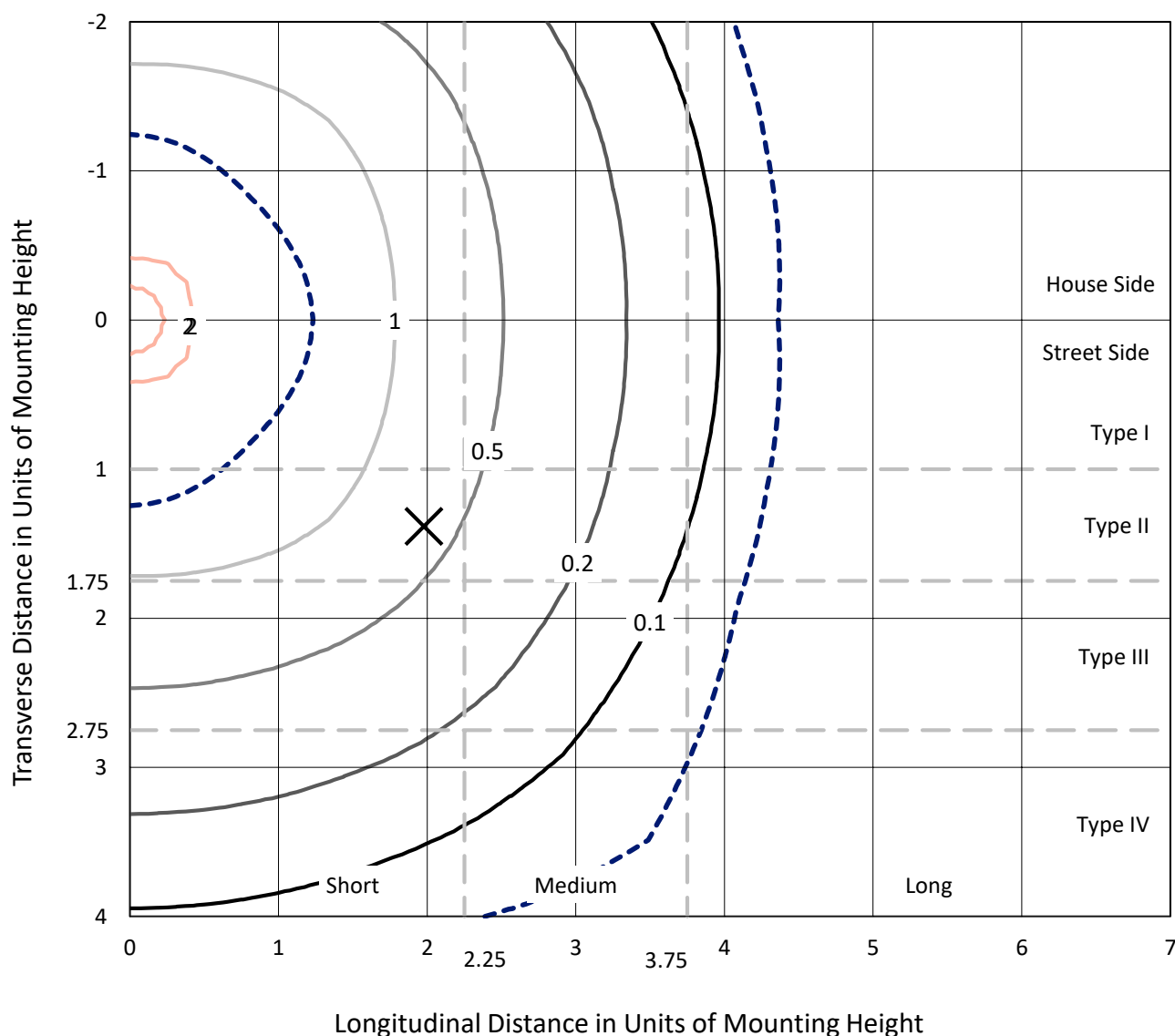
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

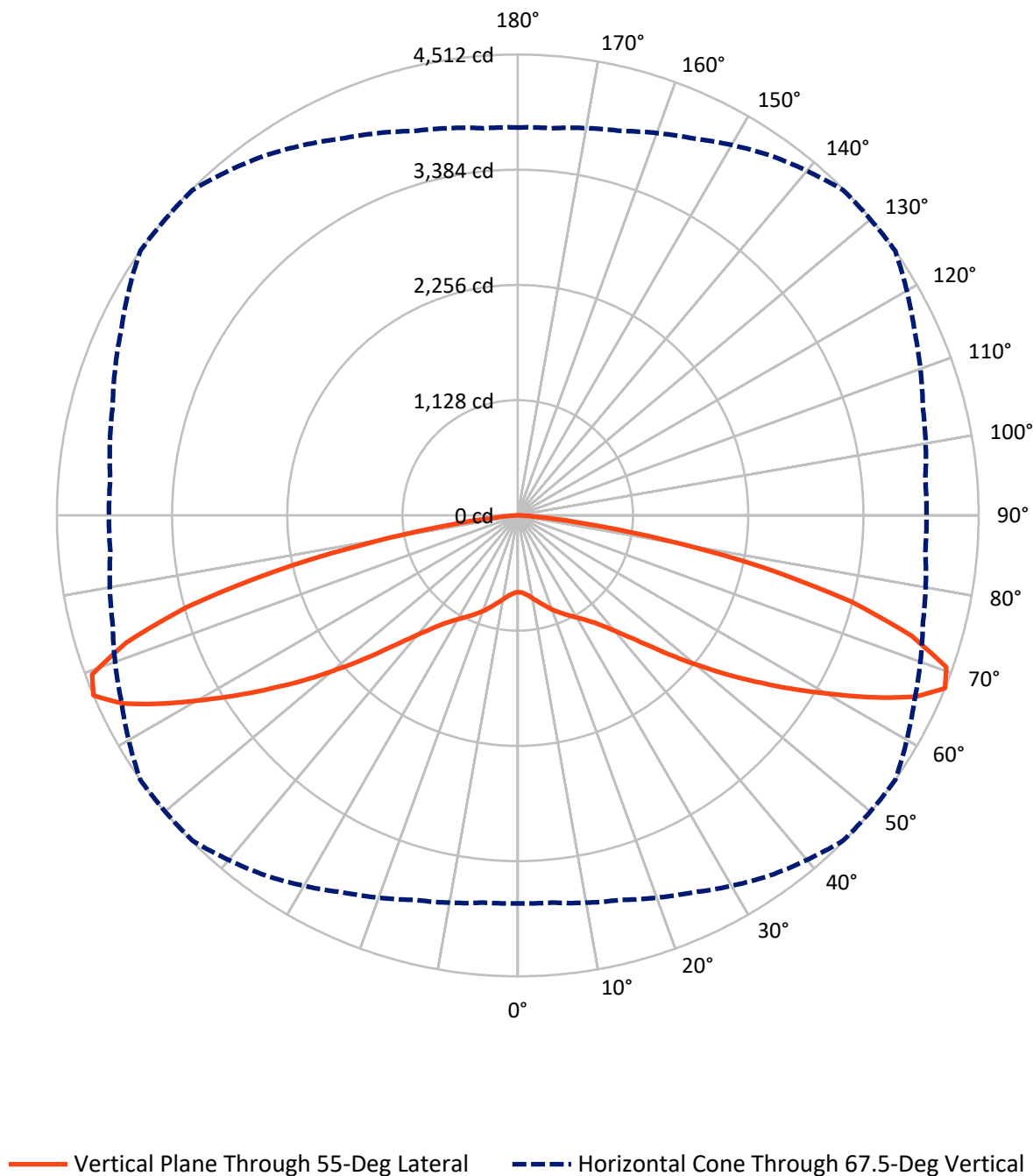


Based on 20 foot mounting height. Maximum calculated value = 2.1 fc
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Luminous Intensity Polar Plot



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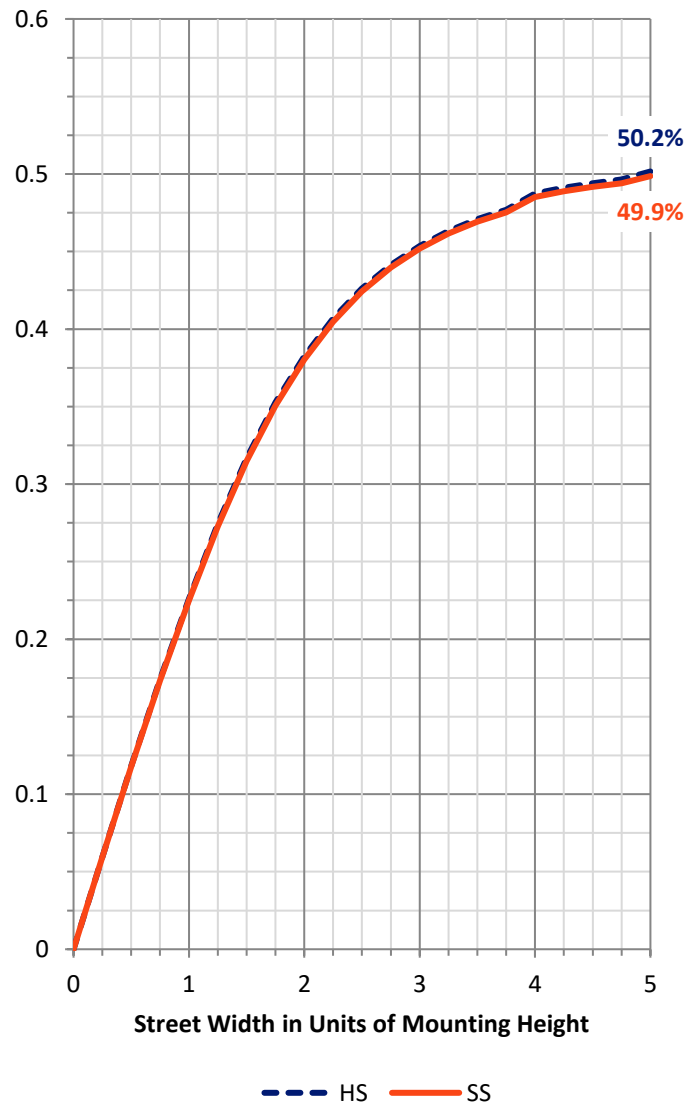
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6479.8	0.0	6479.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6479.8	0.0	6479.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	12959.7	0.0	12959.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	0.6
10°-20°	257.9	2.0
20°-30°	495.8	3.8
30°-40°	812.2	6.3
40°-50°	1412.0	10.9
50°-60°	2520.3	19.4
60°-70°	3891.2	30.0
70°-80°	3149.9	24.3
80°-90°	345.0	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°	12959.7	100.0
0°-180°	12959.7	100.0

Coefficient of Utilization



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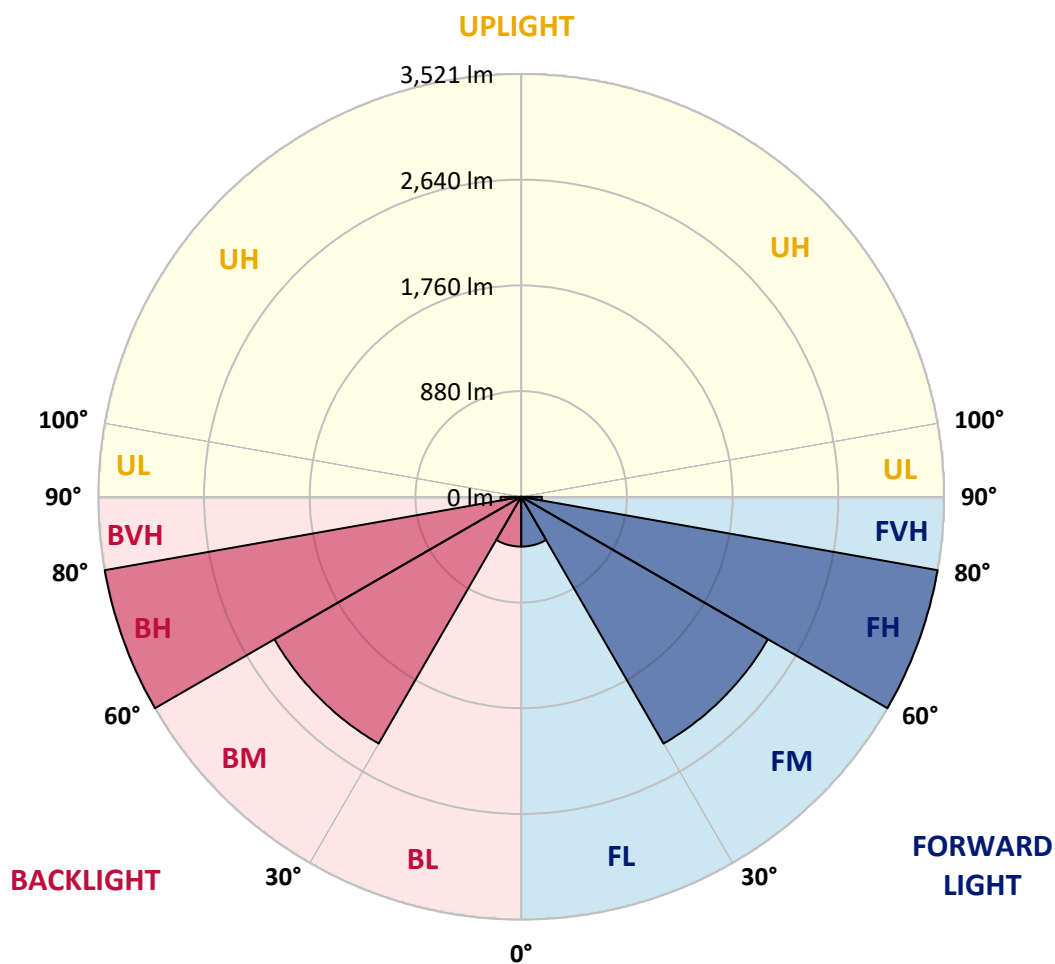
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.6	3.2			
FM	(30°-60°)	2372.2	18.3			
FH	(60°-80°)	3520.5	27.2			G2/5000
FVH	(80°-90°)	172.5	1.3			G2/225
BL	(0°-30°)	414.6	3.2	B1/500		
BM	(30°-60°)	2372.2	18.3	B2/2500		
BH	(60°-80°)	3520.5	27.2	B4/5000		G2/5000
BVH	(80°-90°)	172.5	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°	751.9	751.9	751.9	751.9	751.9	751.9	751.9	751.9	751.9	751.9	751.9
2.5°	756.9	757.7	756.9	756.9	756.0	756.0	756.0	756.9	756.9	758.5	757.7
5°	772.5	773.3	771.6	773.3	773.3	774.1	773.3	772.5	773.3	774.1	771.6
7.5°	794.6	796.3	795.4	796.3	797.1	796.3	796.3	795.4	797.1	796.3	794.6
10°	823.3	825.0	824.2	825.8	826.6	827.5	827.5	825.8	825.0	825.0	824.2
12.5°	857.8	857.8	857.8	860.3	861.9	863.6	862.7	861.1	858.6	859.5	856.2
15°	895.6	897.2	897.2	898.0	902.2	903.0	902.2	899.7	898.9	897.2	895.6
17.5°	937.4	938.3	939.1	939.9	944.8	947.3	944.0	939.9	939.9	939.1	939.1
20°	981.0	980.1	981.8	983.4	986.7	989.2	988.3	984.2	981.0	983.4	982.6
22.5°	1021.2	1022.0	1022.8	1025.3	1031.0	1031.9	1029.4	1026.1	1022.0	1022.8	1022.8
25°	1058.9	1059.8	1061.4	1064.7	1071.3	1075.4	1072.1	1067.1	1061.4	1061.4	1062.2
27.5°	1097.5	1098.3	1099.2	1104.9	1113.1	1118.0	1115.6	1107.4	1100.8	1099.2	1096.7
30°	1140.2	1140.2	1141.9	1149.2	1159.9	1165.7	1162.4	1152.5	1142.7	1141.0	1141.0
32.5°	1194.4	1191.1	1193.6	1203.4	1214.9	1221.5	1219.0	1207.5	1195.2	1192.7	1192.7
35°	1259.2	1257.6	1259.2	1270.7	1284.7	1294.5	1288.8	1278.1	1265.0	1262.5	1260.9
37.5°	1336.4	1337.2	1342.1	1355.3	1374.2	1386.5	1380.7	1363.5	1347.9	1347.9	1347.9
40°	1434.1	1435.7	1445.6	1465.3	1492.4	1503.0	1496.5	1475.1	1457.1	1450.5	1452.1
42.5°	1567.1	1566.2	1581.8	1606.5	1638.5	1654.1	1643.4	1620.4	1594.2	1583.5	1584.3
45°	1723.9	1735.3	1751.8	1783.0	1823.2	1850.3	1831.4	1805.9	1766.5	1750.9	1750.1
47.5°	1913.5	1925.8	1946.3	1998.0	2046.5	2079.3	2064.5	2022.7	1966.0	1943.9	1935.6
50°	2129.4	2145.0	2171.2	2237.7	2306.7	2343.6	2317.4	2262.4	2201.6	2168.0	2159.7
52.5°	2372.4	2377.3	2416.7	2497.1	2582.5	2627.7	2598.1	2532.4	2454.4	2423.3	2400.3
55°	2641.6	2645.7	2690.9	2782.0	2878.8	2932.2	2894.4	2811.5	2739.3	2685.1	2690.0
57.5°	2891.2	2903.5	2970.0	3076.7	3190.8	3255.6	3214.6	3126.7	3051.2	2989.7	2997.0
60°	3157.9	3171.1	3240.9	3368.1	3522.4	3608.6	3555.3	3460.8	3382.9	3324.6	3317.2
62.5°	3441.1	3448.5	3524.9	3639.0	3836.0	3974.7	3923.8	3819.6	3728.5	3671.0	3665.2
65°	3703.0	3712.9	3777.7	3902.5	4105.2	4308.0	4279.3	4134.8	4011.7	3928.8	3917.3
67.5°	3798.2	3804.8	3895.9	4070.8	4303.9	4504.2	4512.4	4285.0	4106.1	4005.1	4002.6
70°	3686.6	3691.5	3808.1	4015.8	4312.9	4479.6	4450.0	4221.8	4001.8	3877.9	3865.5
72.5°	3436.2	3437.0	3543.8	3720.2	4018.2	4154.5	4028.9	3903.3	3675.9	3583.2	3558.5
75°	2980.6	2981.5	3055.3	3172.7	3385.3	3510.9	3368.1	3253.2	3119.4	3064.4	3035.6
77.5°	2049.7	2062.1	2138.4	2273.8	2507.0	2645.7	2458.5	2250.0	2168.8	2122.0	2094.1
80°	986.7	1005.6	1093.4	1227.2	1471.0	1692.7	1462.0	1205.1	1046.6	917.7	940.7
82.5°	263.5	266.8	342.3	491.7	685.4	804.5	653.4	457.2	288.1	193.7	177.3
85°	69.8	73.9	103.4	142.0	215.9	275.0	210.1	133.8	101.8	75.5	69.0
87.5°	18.9	22.2	36.1	43.5	54.2	43.5	54.2	46.8	45.1	23.8	17.2
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)