

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: P271211

Luminaire Tested: **XNV-AF-01-LED-U-5WQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24131)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-5WQ-7027-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4416.7 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 44
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

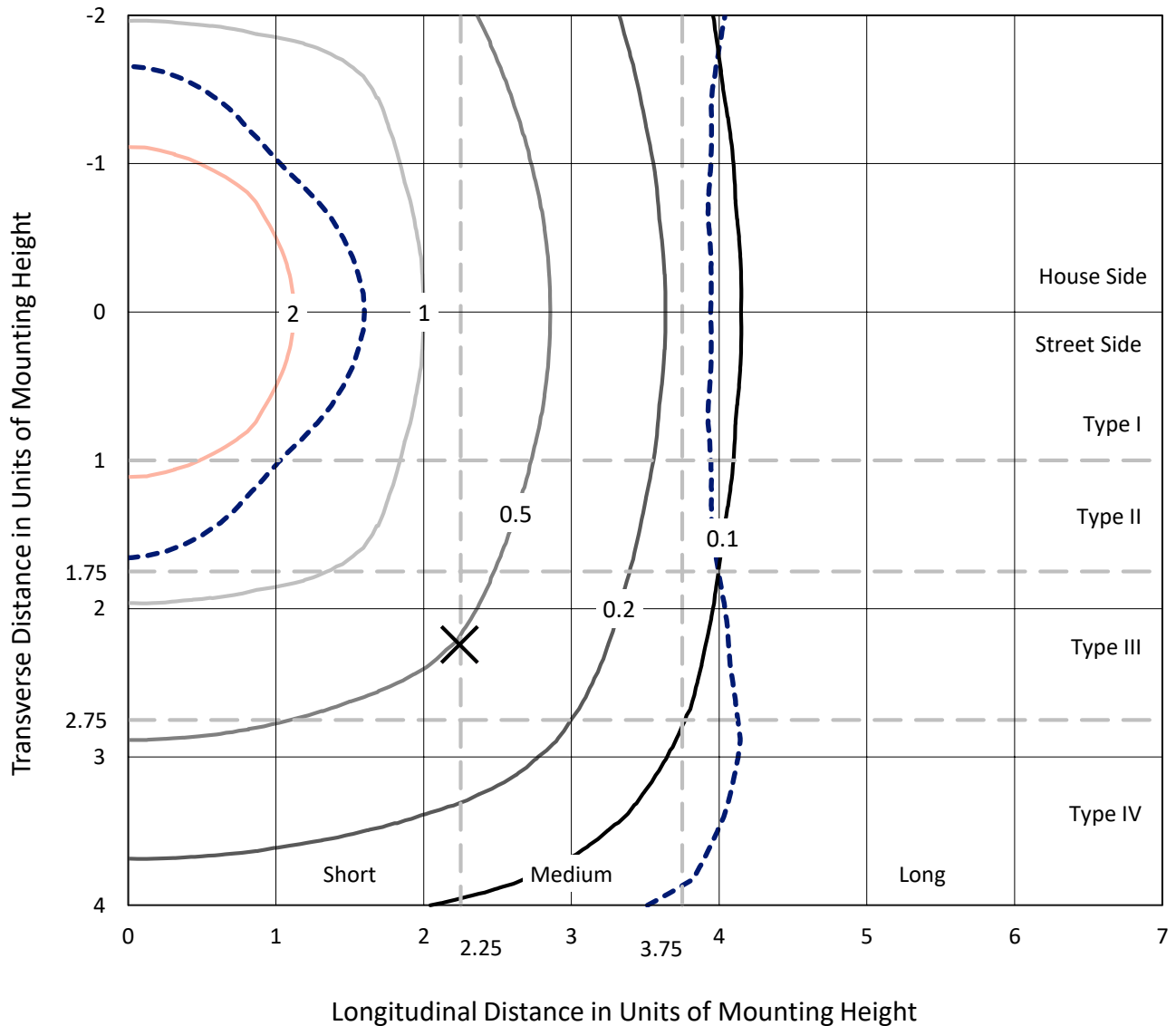


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

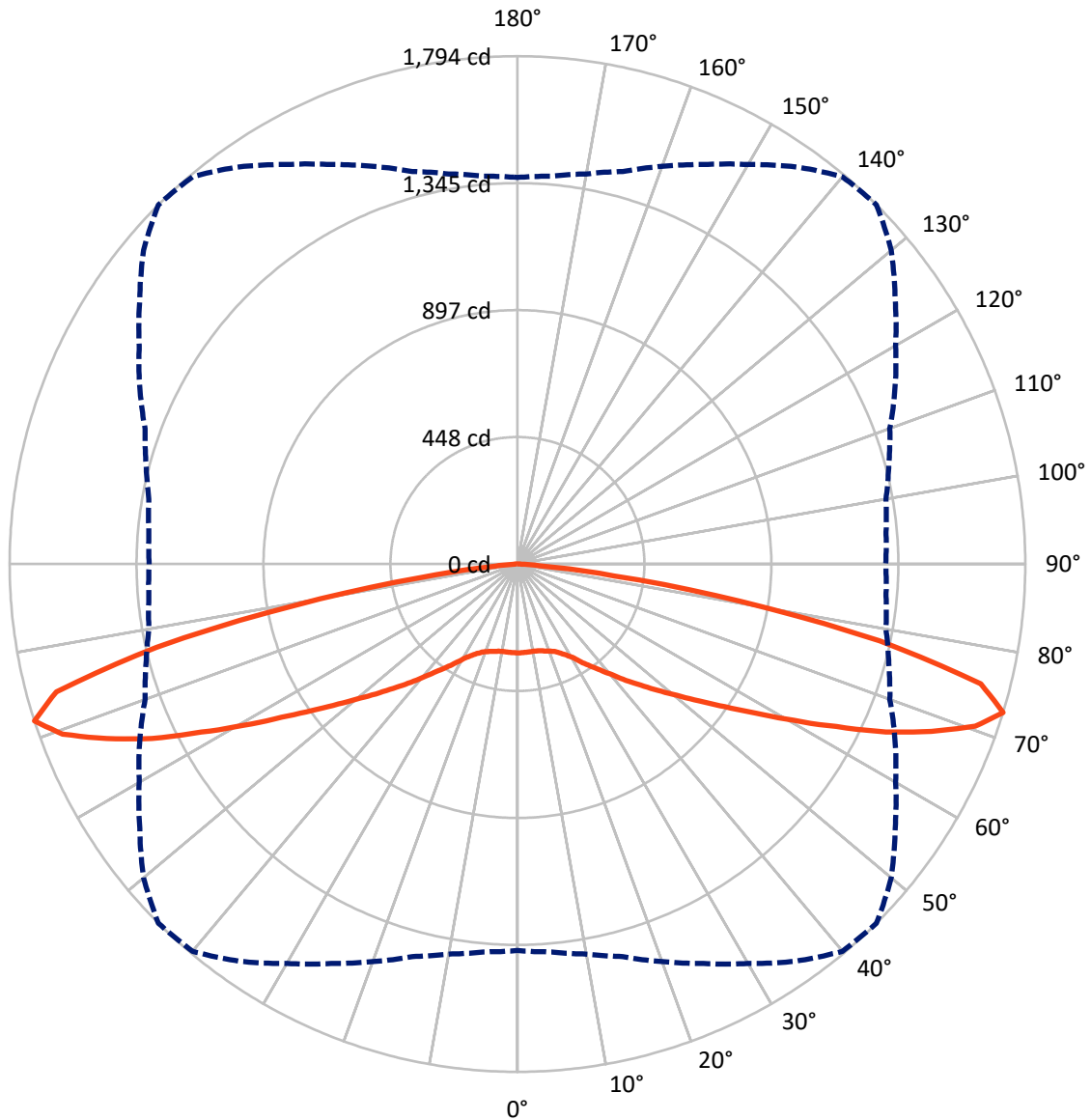


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2208.3	0.0	2208.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2208.3	0.0	2208.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	4416.7	0.0	4416.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.0	0.7
10°-20°	90.7	2.1
20°-30°	163.7	3.7
30°-40°	279.3	6.3
40°-50°	475.5	10.8
50°-60°	765.3	17.3
60°-70°	1272.6	28.8
70°-80°	1231.1	27.9
80°-90°	108.4	2.5
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°	4416.7	100.0
0°-180°	4416.7	100.0



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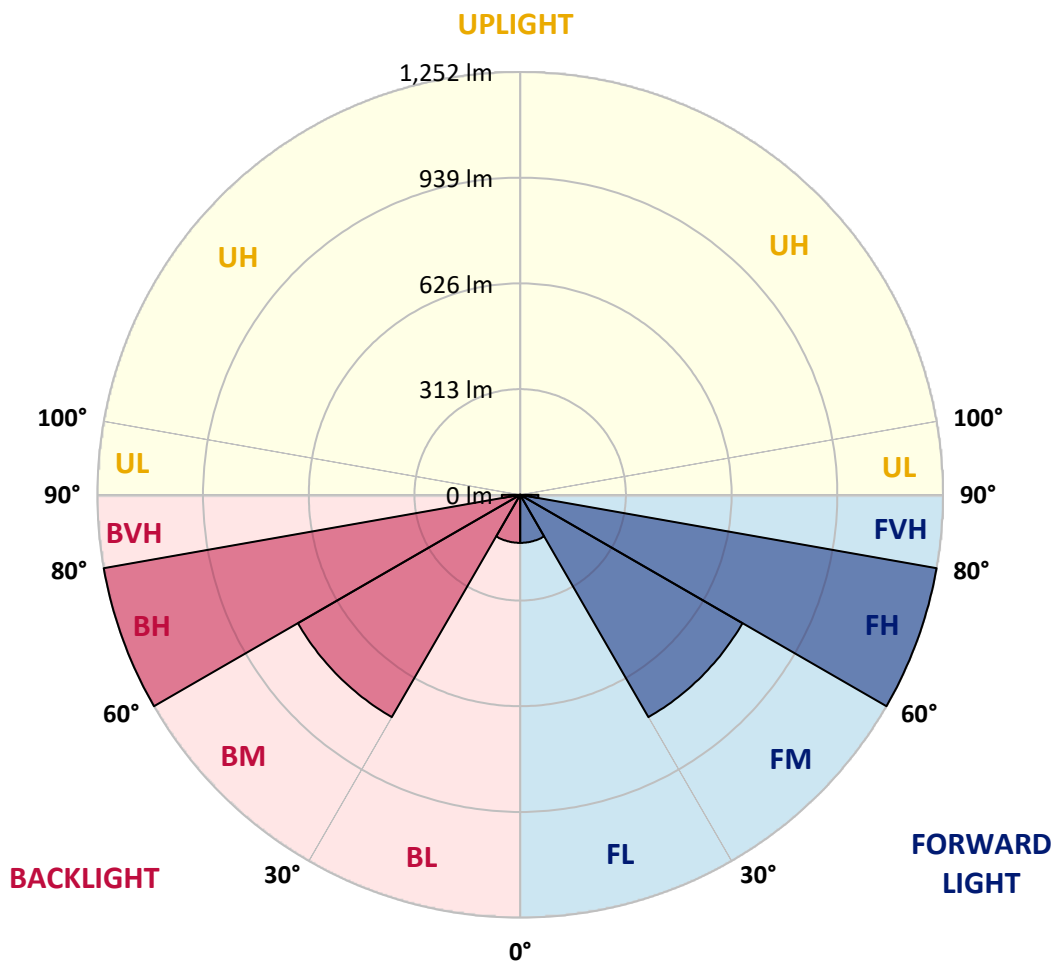
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	142.2	3.2			
FM (30°-60°)	760.0	17.2			
FH (60°-80°)	1251.9	28.3			G1/1800
FVH (80°-90°)	54.2	1.2			G1/100
BL (0°-30°)	142.2	3.2	B1/500		
BM (30°-60°)	760.0	17.2	B1/1000		
BH (60°-80°)	1251.9	28.3	B3/2500		G1/1800
BVH (80°-90°)	54.2	1.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	314.0	314.0	314.0	314.0	314.0	314.0	314.0	314.0	314.0	314.0	314.0
2.5°	316.5	316.5	316.7	316.5	315.9	315.7	314.8	314.2	313.7	313.5	312.9
5°	316.7	316.7	317.0	316.7	316.2	315.7	315.0	314.2	313.7	313.1	312.9
7.5°	317.8	318.1	318.3	318.1	317.0	316.5	315.7	314.8	313.7	313.1	312.6
10°	319.9	319.9	319.9	319.6	318.9	317.8	316.7	315.9	314.5	313.1	312.4
12.5°	321.7	321.9	321.9	321.4	320.2	318.9	317.8	317.0	315.9	314.8	314.0
15°	324.1	324.1	323.7	322.8	321.1	319.9	319.4	319.2	318.9	318.3	317.6
17.5°	329.0	328.7	327.8	326.3	324.3	323.5	323.0	323.0	323.0	322.8	322.1
20°	336.1	336.1	334.9	332.3	330.5	329.8	329.0	329.0	329.0	328.2	327.3
22.5°	347.5	347.7	346.0	342.9	340.6	339.0	337.9	337.1	336.2	335.7	334.3
25°	362.9	362.6	360.8	356.6	355.0	353.5	351.2	349.9	348.8	348.0	346.3
27.5°	379.3	378.9	376.7	373.2	372.2	369.7	368.0	366.1	364.8	363.5	361.8
30°	400.1	398.8	397.2	394.4	393.8	392.0	389.9	387.1	385.0	382.8	380.9
32.5°	418.9	418.9	416.5	415.1	416.3	415.3	415.6	413.9	412.7	411.9	409.9
35°	445.0	445.0	443.9	442.3	442.5	440.7	440.3	440.7	441.7	441.7	439.6
37.5°	479.9	480.4	476.8	476.3	474.9	472.1	470.8	471.4	473.9	475.3	472.1
40°	523.1	524.2	523.1	519.5	518.0	513.2	510.5	510.5	512.5	513.8	512.8
42.5°	565.8	567.5	565.8	563.0	561.6	558.0	556.8	557.8	560.4	561.9	560.4
45°	613.4	614.7	612.3	609.0	607.3	605.4	604.6	605.4	608.2	609.8	609.2
47.5°	660.1	662.1	658.9	657.6	657.6	655.8	657.9	660.1	662.5	666.4	664.7
50°	705.7	708.1	706.2	706.5	708.8	712.3	716.4	720.7	725.0	729.2	729.7
52.5°	746.5	750.4	750.7	755.5	762.3	767.7	779.1	788.6	799.0	802.5	800.8
55°	789.5	794.6	801.4	809.1	820.0	831.0	850.3	867.6	881.1	889.5	888.2
57.5°	851.0	856.1	863.1	875.7	891.9	907.2	933.6	960.2	980.9	993.6	987.3
60°	930.6	936.0	945.2	958.5	979.7	1000.4	1036.6	1074.9	1107.0	1121.7	1110.2
62.5°	1036.0	1041.1	1047.2	1064.9	1088.4	1115.2	1160.5	1209.7	1250.5	1264.6	1248.6
65°	1186.4	1192.6	1194.6	1208.8	1232.0	1256.8	1305.7	1361.2	1407.6	1430.8	1398.8
67.5°	1355.7	1358.1	1365.9	1382.6	1406.2	1428.6	1467.2	1519.7	1564.3	1577.1	1542.7
70°	1455.0	1459.8	1473.2	1496.5	1524.9	1559.8	1602.0	1658.6	1709.1	1715.1	1671.7
72.5°	1365.2	1375.3	1399.0	1435.4	1494.7	1556.9	1629.4	1713.0	1785.6	1793.9	1724.0
75°	1095.0	1106.4	1134.6	1174.7	1244.8	1337.2	1442.1	1567.5	1676.2	1690.2	1597.6
77.5°	583.7	597.8	638.9	692.8	792.8	915.1	1041.5	1184.4	1276.9	1308.1	1241.5
80°	147.1	154.7	174.5	206.2	273.8	372.4	481.4	635.3	750.1	798.8	750.1
82.5°	57.1	62.8	68.2	72.0	78.5	92.2	127.2	207.4	279.5	344.2	298.0
85°	22.0	23.4	33.6	38.4	38.4	42.1	48.4	57.1	70.6	77.3	64.7
87.5°	8.8	9.5	11.7	18.0	18.4	16.3	17.3	19.6	14.9	12.4	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	314.0	314.0	314.0	314.0	314.0	314.0	314.0	314.0
2.5°	312.6	312.4	311.8	312.2	311.8	311.8	311.8	311.8
5°	312.4	312.4	311.8	311.8	311.8	312.2	311.8	311.8
7.5°	312.2	311.8	311.3	311.1	311.1	310.8	310.8	310.8
10°	311.5	311.1	310.5	310.2	310.2	309.6	309.6	309.6
12.5°	312.9	312.2	311.5	311.3	311.3	311.3	311.5	311.5
15°	316.7	315.0	314.2	314.0	314.2	314.8	315.0	315.3
17.5°	320.8	319.2	317.8	317.2	317.6	318.3	319.2	319.6
20°	325.9	324.6	323.0	322.4	322.4	323.5	324.1	324.8
22.5°	333.4	332.3	330.8	330.0	329.5	330.8	331.7	332.3
25°	344.9	344.0	342.9	342.0	341.7	343.2	343.6	344.0
27.5°	360.5	359.4	358.9	358.6	357.7	358.3	359.1	358.9
30°	380.6	381.4	380.6	380.6	379.3	379.8	379.3	378.6
32.5°	407.6	406.8	404.2	402.6	400.7	400.7	399.8	399.0
35°	434.4	431.7	430.4	431.1	430.4	430.8	429.5	428.1
37.5°	466.2	464.7	464.3	466.8	466.2	466.8	466.8	464.9
40°	508.4	507.4	509.2	513.2	514.9	514.5	515.2	512.8
42.5°	556.8	554.9	555.7	559.3	561.1	561.6	561.4	559.3
45°	605.2	605.6	605.6	609.5	611.3	612.5	610.6	609.8
47.5°	659.7	660.7	658.6	661.2	661.7	663.6	662.1	660.7
50°	722.9	719.9	715.5	716.4	716.4	715.8	714.0	712.3
52.5°	793.3	786.5	778.3	775.5	772.6	769.6	765.9	762.8
55°	873.4	861.7	847.1	840.4	834.5	827.8	819.2	816.1
57.5°	966.4	946.4	926.7	914.6	899.8	890.8	879.7	879.3
60°	1076.8	1049.6	1015.2	996.8	982.1	971.5	963.3	959.8
62.5°	1204.3	1157.6	1120.2	1100.8	1083.6	1077.1	1066.5	1067.8
65°	1335.2	1287.5	1251.3	1235.6	1219.4	1215.1	1205.3	1208.8
67.5°	1476.8	1437.6	1397.9	1383.2	1368.5	1364.2	1354.1	1357.1
70°	1603.7	1553.9	1508.9	1480.0	1455.0	1434.9	1422.0	1416.8
72.5°	1628.9	1542.7	1471.9	1399.7	1358.1	1321.8	1306.9	1301.0
75°	1463.7	1329.9	1228.8	1144.3	1097.5	1044.5	1038.8	1030.8
77.5°	1138.5	986.2	864.0	755.2	692.5	627.7	605.4	588.6
80°	679.1	521.9	404.5	283.5	231.4	186.2	175.1	163.4
82.5°	243.0	155.8	104.9	81.8	73.1	67.5	63.2	57.3
85°	58.7	49.4	46.7	42.4	42.0	35.7	25.3	22.5
87.5°	18.8	17.1	17.3	16.6	17.3	13.0	10.6	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)