

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: McGRAW-EDISON

Report Number: P299936

Luminaire Tested: **GLNA-AF-01-LED-E1-5WQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-5WQ-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4168.4 lumens
Efficiency: N/A
Efficacy: 122.6 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): 34
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: 25 FT

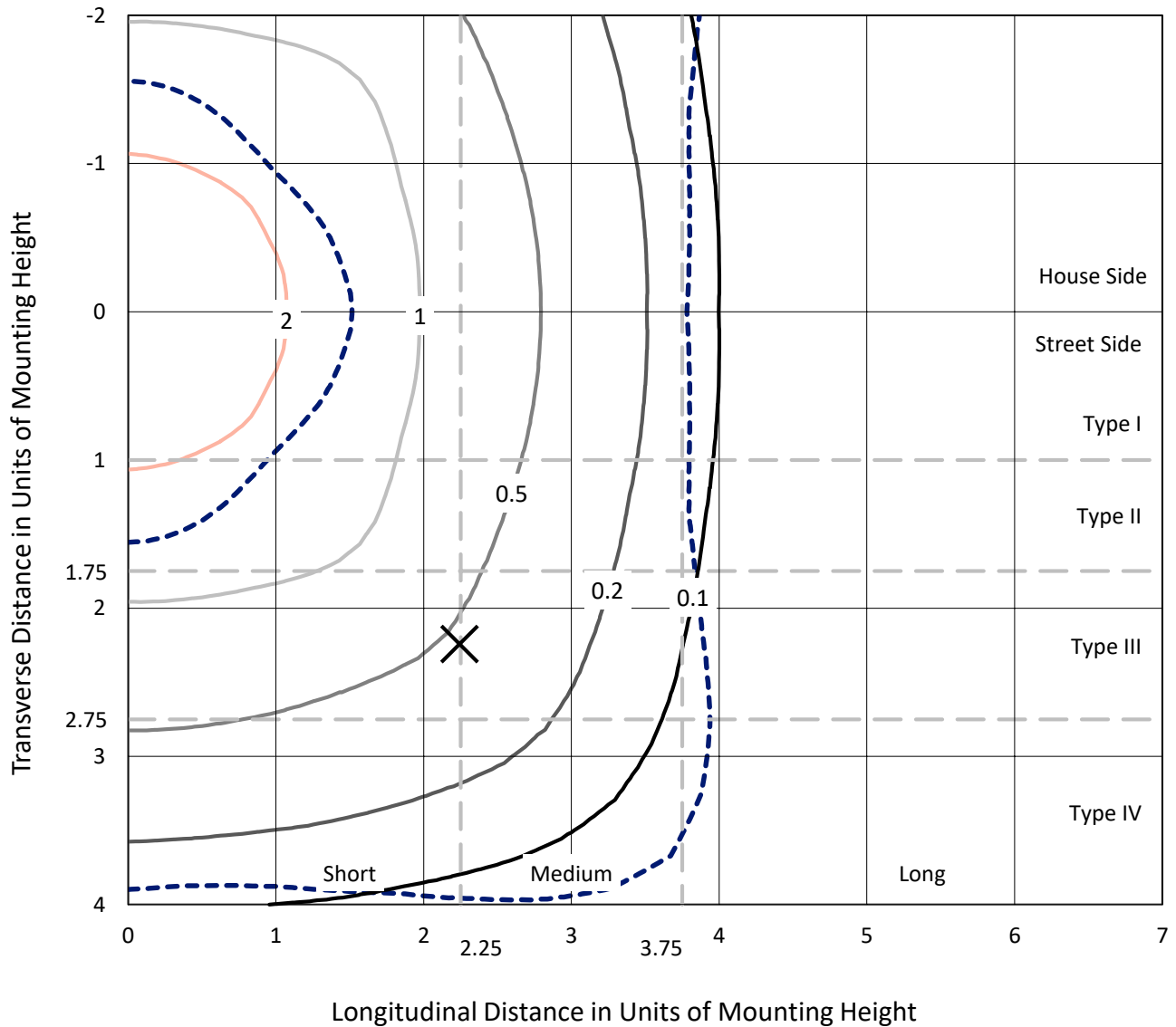


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

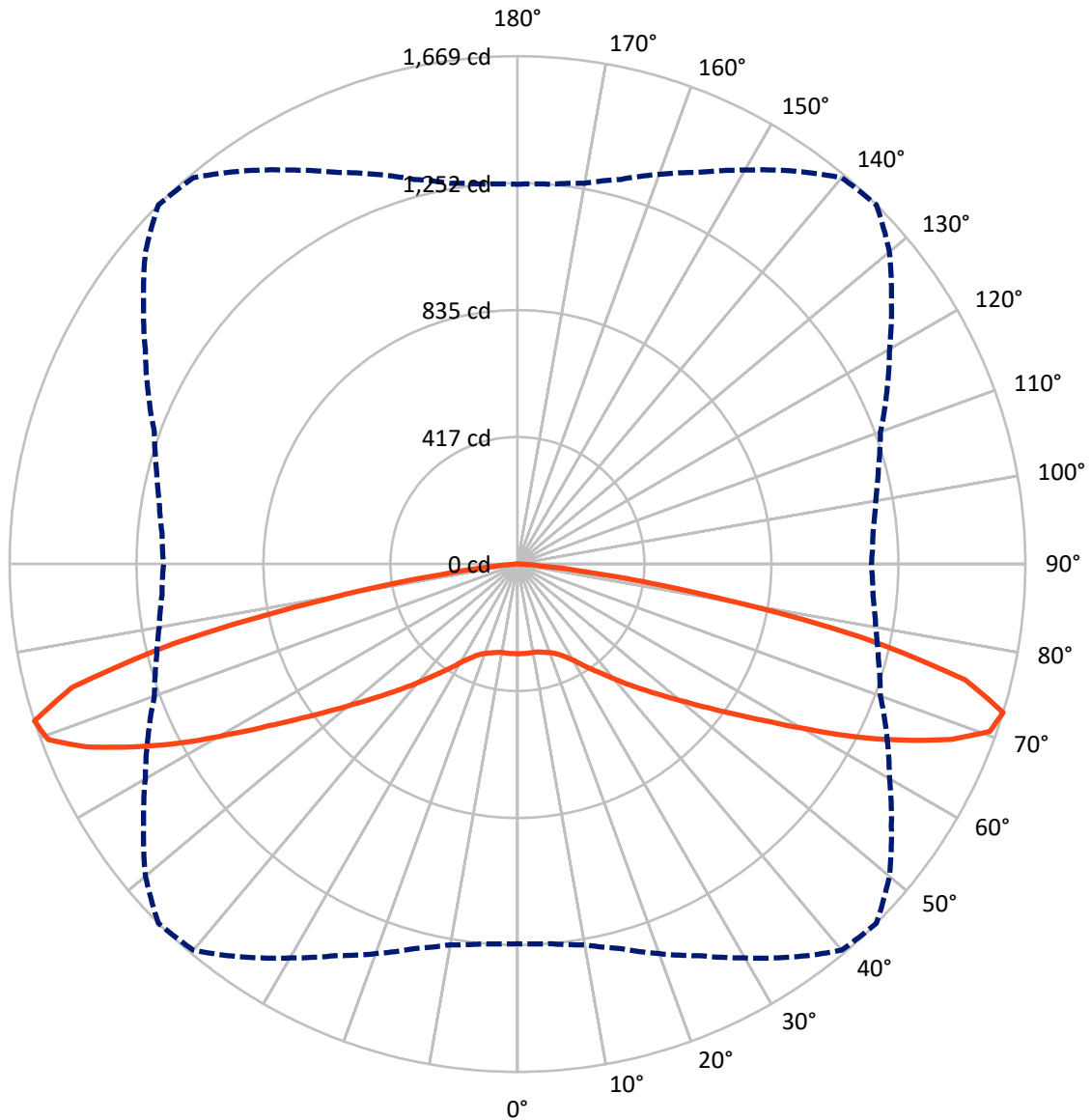


Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Semi-Cutoff

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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	2084.2	0.0	2084.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2084.2	0.0	2084.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	4168.4	0.0	4168.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.2	0.7
10°-20°	85.6	2.1
20°-30°	156.4	3.8
30°-40°	269.7	6.5
40°-50°	461.1	11.1
50°-60°	747.4	17.9
60°-70°	1239.9	29.7
70°-80°	1092.0	26.2
80°-90°	88.0	2.1
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°	4168.4	100.0
0°-180°	4168.4	100.0



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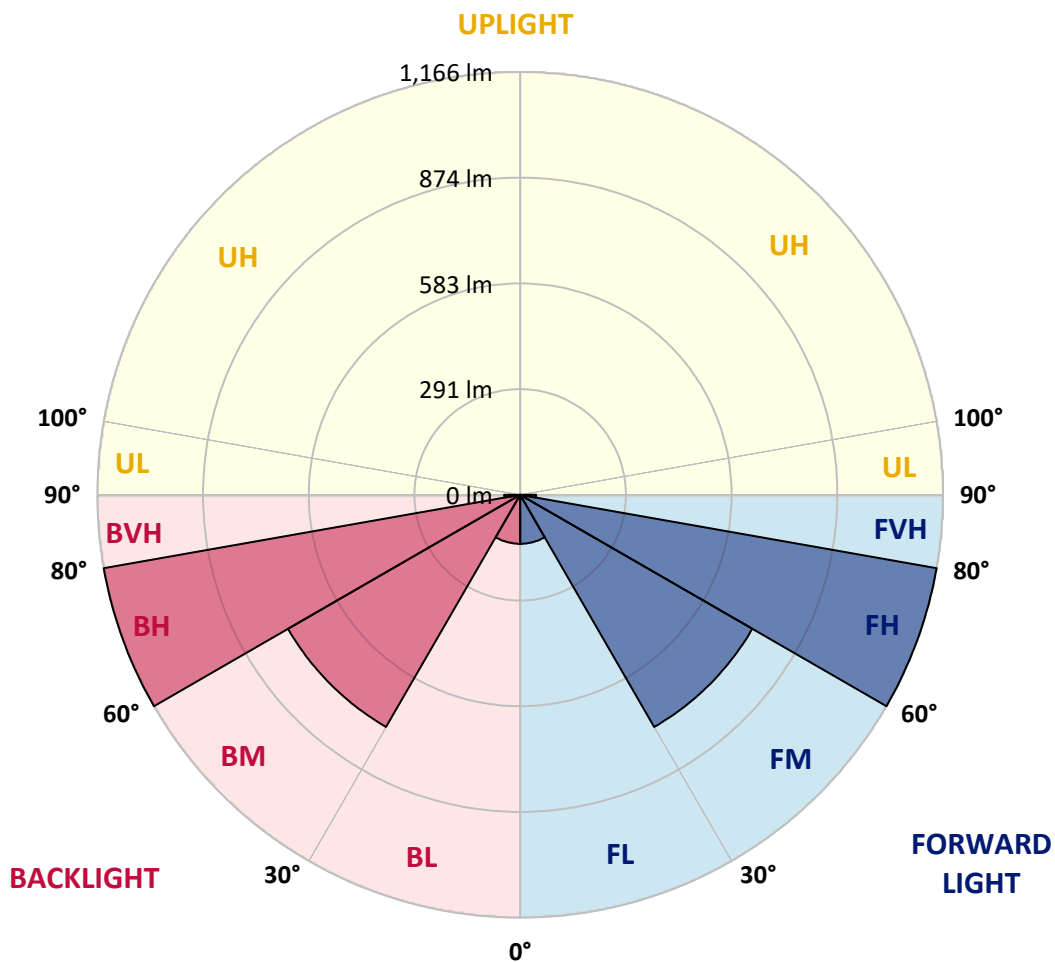
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	135.1	3.2			
FM	(30°-60°)	739.1	17.7			
FH	(60°-80°)	1166.0	28.0			G1/1800
FVH	(80°-90°)	44.0	1.1			G1/100
BL	(0°-30°)	135.1	3.2	B1/500		
BM	(30°-60°)	739.1	17.7	B1/1000		
BH	(60°-80°)	1166.0	28.0	B3/2500		G1/1800
BVH	(80°-90°)	44.0	1.1			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°	295.2	295.2	295.2	295.2	295.2	295.2	295.2	295.2	295.2	295.2	295.2
2.5°	295.2	295.4	295.6	295.4	295.4	295.2	295.0	295.2	295.0	294.6	294.8
5°	296.1	296.5	296.5	296.1	296.3	296.1	295.8	296.0	295.6	295.0	295.0
7.5°	297.3	297.5	297.5	297.1	297.3	296.9	296.5	296.3	296.0	295.2	294.6
10°	299.0	299.2	299.0	298.6	298.6	298.1	297.1	296.7	296.0	294.8	294.2
12.5°	300.9	301.1	300.9	300.5	300.4	299.4	298.6	298.1	297.5	296.5	295.6
15°	303.6	304.0	303.6	302.8	302.3	301.5	301.1	301.3	301.5	300.7	299.8
17.5°	308.6	308.8	308.2	306.5	305.7	304.9	304.9	305.3	305.9	305.5	304.6
20°	317.7	317.2	315.8	313.7	312.8	311.4	311.2	311.4	311.4	311.2	310.5
22.5°	329.2	328.8	327.1	324.4	323.1	322.3	321.2	320.2	320.0	319.5	318.7
25°	343.0	342.8	340.7	338.4	337.4	336.5	335.5	334.2	333.0	331.7	330.9
27.5°	360.6	359.8	356.8	355.6	354.3	353.7	352.4	350.8	349.9	348.1	347.2
30°	379.9	379.9	377.4	377.0	377.0	375.7	374.1	371.5	369.8	368.0	367.5
32.5°	399.2	399.4	396.9	397.7	398.2	399.2	399.6	398.6	397.5	397.3	396.1
35°	427.1	426.3	423.9	424.4	424.2	424.0	424.0	426.2	426.5	426.9	424.6
37.5°	461.7	461.7	459.2	459.2	458.1	456.9	455.4	456.7	458.8	459.4	457.9
40°	501.3	502.6	499.6	499.4	499.8	496.1	494.4	496.5	497.8	500.1	498.4
42.5°	547.9	547.0	543.9	543.5	541.4	540.3	538.8	540.5	542.6	544.1	544.7
45°	592.7	591.9	588.5	588.5	586.4	585.4	586.2	589.0	590.0	592.1	594.2
47.5°	636.8	635.9	633.6	634.5	634.7	636.5	638.9	641.6	644.3	647.2	648.1
50°	682.0	682.1	679.7	682.0	684.8	689.6	696.3	700.7	706.2	709.9	711.0
52.5°	723.1	723.8	726.5	731.9	737.6	747.0	758.4	769.1	778.3	784.4	784.0
55°	772.4	773.5	780.0	789.2	798.6	812.7	829.7	848.7	864.0	872.8	867.2
57.5°	835.5	838.0	845.2	857.7	871.6	890.0	913.3	941.8	965.5	977.3	968.3
60°	922.1	923.6	932.4	946.2	963.0	985.7	1016.9	1055.1	1088.6	1104.3	1094.0
62.5°	1036.2	1039.1	1046.2	1060.1	1077.3	1103.1	1141.2	1189.0	1230.7	1252.4	1229.1
65°	1172.5	1181.7	1187.6	1201.8	1217.8	1245.2	1285.0	1336.2	1380.9	1395.3	1368.3
67.5°	1307.5	1315.5	1325.9	1342.1	1358.4	1389.1	1426.0	1475.8	1524.9	1537.9	1496.0
70°	1366.6	1371.2	1387.2	1409.4	1440.6	1476.9	1519.5	1575.4	1636.2	1646.9	1593.7
72.5°	1248.2	1252.8	1270.8	1308.5	1362.8	1420.5	1494.9	1576.9	1657.2	1669.2	1596.0
75°	944.1	936.6	963.2	1013.1	1086.3	1166.8	1270.8	1388.4	1504.4	1519.5	1432.2
77.5°	487.9	486.9	507.0	569.0	656.3	747.9	862.4	995.3	1108.9	1154.8	1083.6
80°	137.5	139.0	148.6	179.3	230.4	296.5	386.0	510.5	603.4	650.8	611.0
82.5°	53.9	58.1	61.8	67.5	74.2	83.9	112.0	166.7	223.7	267.3	218.9
85°	19.3	20.6	29.3	34.6	35.2	37.1	42.3	49.3	59.5	70.9	58.3
87.5°	7.3	8.0	9.4	15.5	15.3	14.0	17.0	17.8	13.4	12.2	15.1
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°	295.2	295.2	295.2	295.2	295.2	295.2	295.2	295.2
2.5°	294.4	294.6	294.6	294.8	295.0	295.0	295.4	295.4
5°	294.6	294.6	294.2	294.4	294.2	294.2	294.4	294.4
7.5°	294.2	294.0	293.7	293.5	293.1	293.1	293.1	293.1
10°	293.7	293.5	293.1	292.9	292.7	292.7	292.7	292.7
12.5°	295.2	294.6	294.2	294.0	294.0	294.0	294.0	294.0
15°	299.2	297.9	296.9	296.9	297.1	297.5	297.5	297.9
17.5°	304.2	302.6	301.7	300.9	301.3	301.9	302.3	302.6
20°	310.1	309.3	308.0	307.2	307.2	308.0	308.4	308.6
22.5°	318.3	317.7	317.2	316.2	316.2	316.6	317.4	317.4
25°	330.6	330.2	329.8	329.0	328.8	328.8	329.2	329.6
27.5°	345.9	346.0	345.7	345.5	344.9	344.7	345.3	345.1
30°	366.3	367.3	368.2	367.5	366.5	365.9	365.4	364.6
32.5°	394.0	392.9	392.1	390.8	389.1	387.5	386.4	385.0
35°	420.2	418.3	417.5	418.7	418.5	417.5	416.2	415.1
37.5°	452.3	452.0	452.3	454.4	454.1	455.0	452.3	452.2
40°	492.9	493.3	495.9	498.4	499.8	501.1	499.6	498.0
42.5°	539.9	539.7	540.7	544.1	546.4	547.9	544.7	544.3
45°	589.6	588.3	589.0	591.9	594.2	595.9	592.3	592.3
47.5°	644.3	642.0	639.5	642.8	644.1	645.2	642.4	641.4
50°	705.3	700.5	695.1	696.5	696.5	696.1	692.5	692.3
52.5°	775.3	766.5	756.7	753.1	751.0	748.7	742.4	739.3
55°	855.7	842.5	827.3	817.9	812.9	806.6	796.1	793.2
57.5°	949.8	929.2	902.8	891.3	880.2	869.9	858.2	855.0
60°	1061.3	1030.9	995.9	974.7	962.6	952.7	940.6	940.1
62.5°	1185.5	1137.5	1098.0	1078.9	1070.1	1061.3	1049.8	1051.3
65°	1311.9	1261.8	1224.7	1209.2	1201.0	1193.8	1182.3	1184.0
67.5°	1436.6	1390.5	1349.8	1333.9	1324.7	1315.5	1305.2	1306.9
70°	1526.0	1468.9	1423.0	1387.8	1365.8	1341.0	1324.9	1320.9
72.5°	1500.4	1412.3	1339.4	1269.7	1228.7	1195.5	1172.9	1163.2
75°	1298.5	1178.1	1084.4	998.7	950.6	911.4	882.9	865.1
77.5°	964.3	829.0	718.3	619.6	541.6	489.2	452.3	428.4
80°	527.9	401.5	293.5	206.3	151.6	126.0	111.3	104.2
82.5°	164.4	106.1	78.2	67.5	62.7	60.0	55.6	48.6
85°	52.4	45.9	42.6	40.7	38.8	33.8	23.3	21.2
87.5°	20.3	20.8	20.6	19.5	19.9	14.3	11.5	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)