

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: P268166

Luminaire Tested: **GAN-AF-01-LED-U-5NQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-5NQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3680.6 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - 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: 28.75 FT

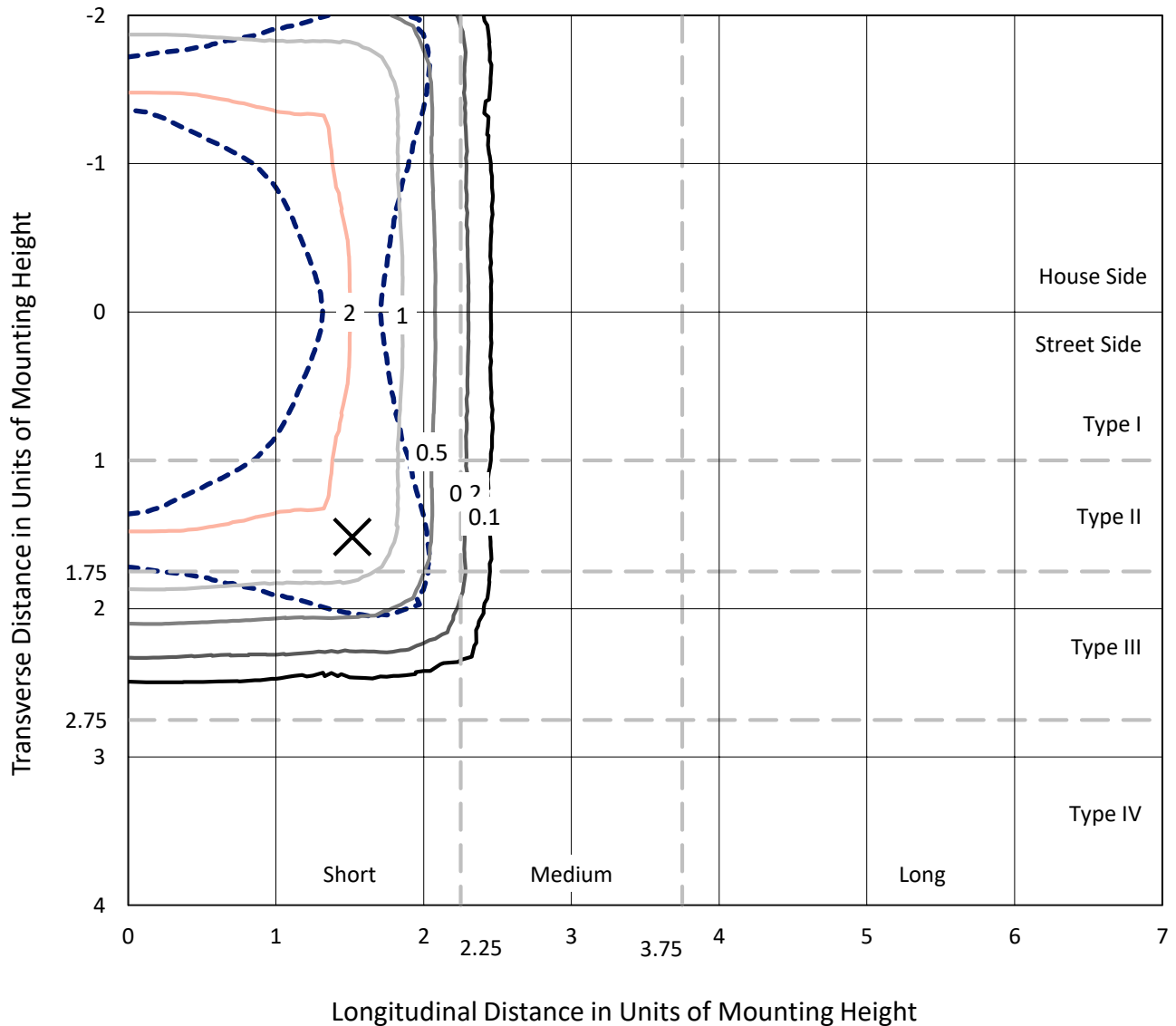


REPORT NUMBER: P268166

CATALOG NUMBER: GAN-AF-01-LED-U-5NQ-7027-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

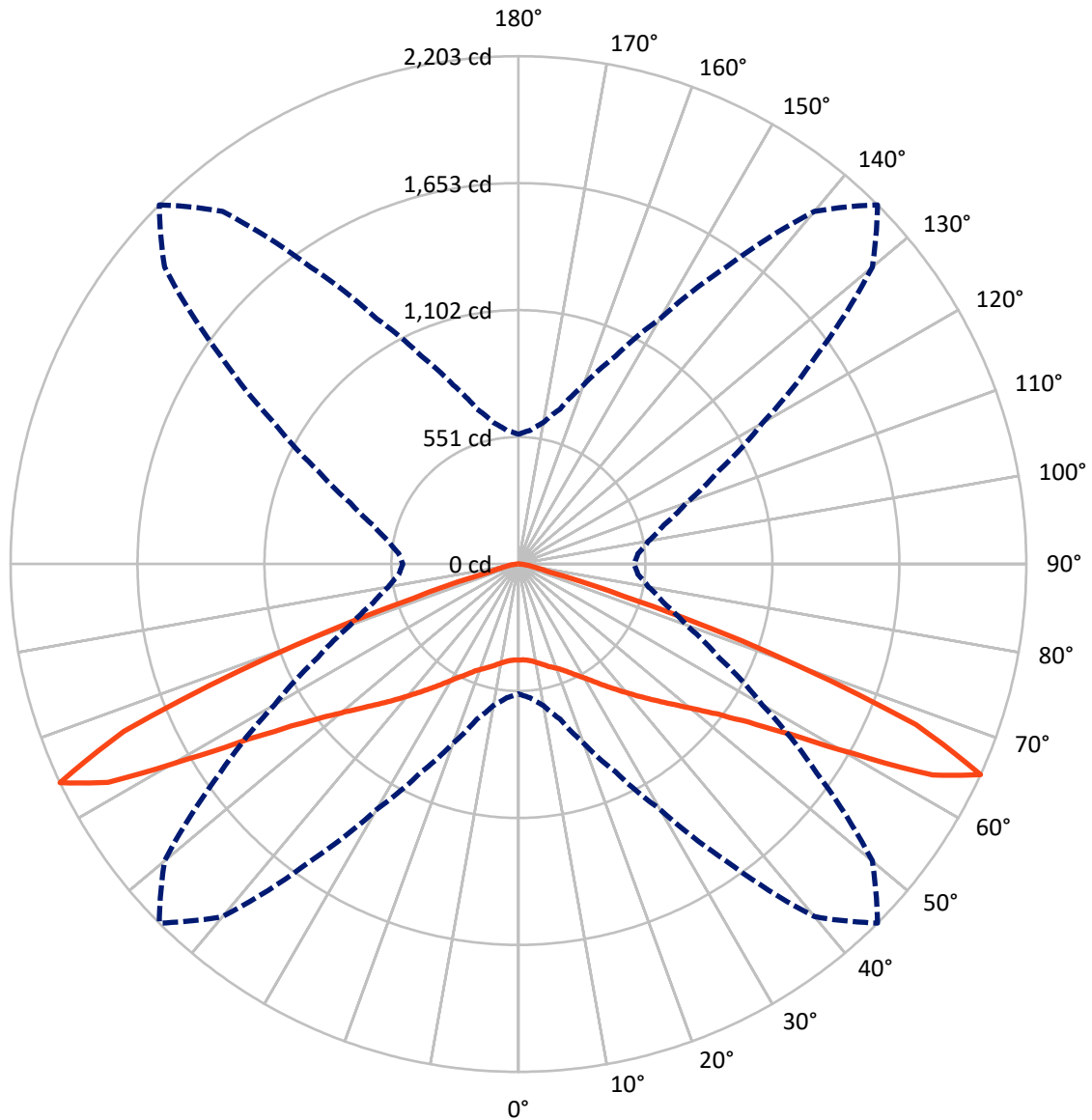


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P268166

CATALOG NUMBER: GAN-AF-01-LED-U-5NQ-7027-600

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P268166

CATALOG NUMBER: GAN-AF-01-LED-U-5NQ-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1840.3	0.0	1840.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1840.3	0.0	1840.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	3680.6	0.0	3680.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	1.1
10°-20°	130.2	3.5
20°-30°	243.4	6.6
30°-40°	411.7	11.2
40°-50°	673.2	18.3
50°-60°	1070.4	29.1
60°-70°	967.6	26.3
70°-80°	122.5	3.3
80°-90°	21.1	0.6
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°	3680.6	100.0
0°-180°	3680.6	100.0



REPORT NUMBER: P268166

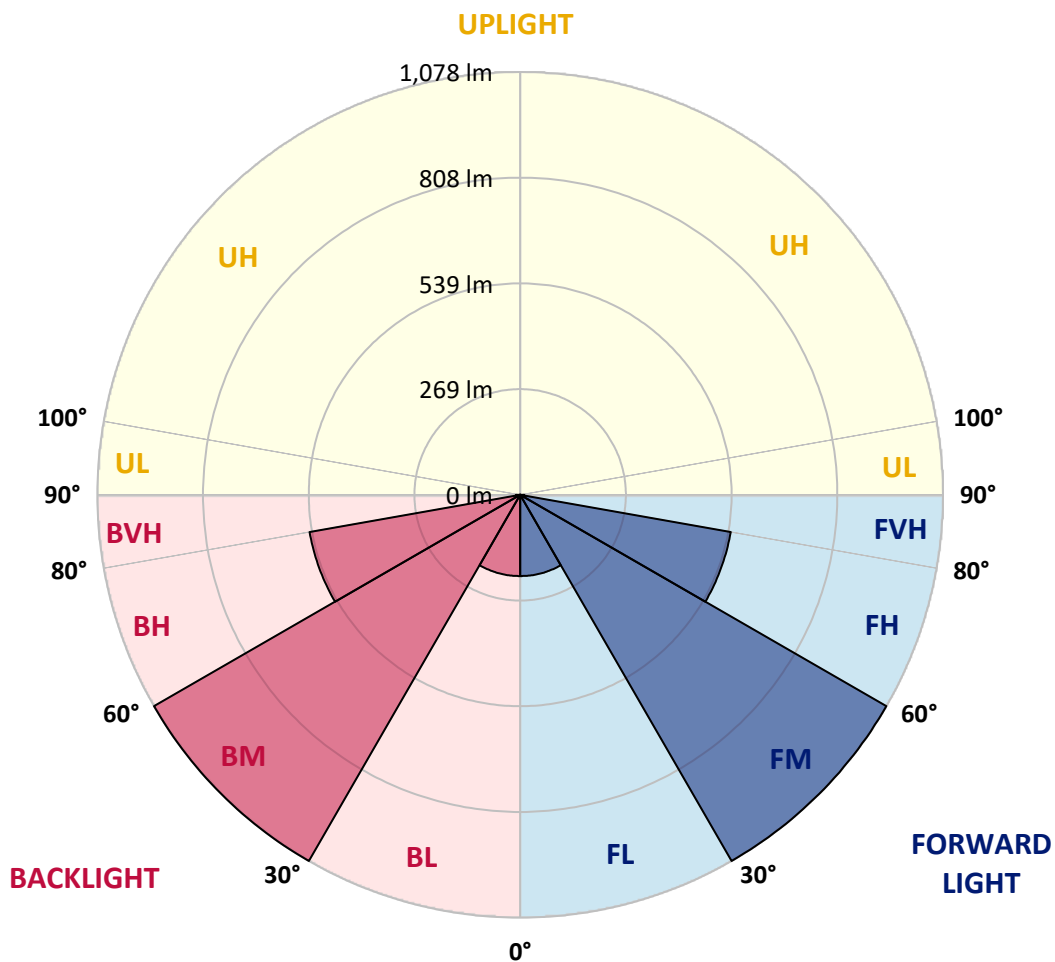
CATALOG NUMBER: GAN-AF-01-LED-U-5NQ-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	207.1	5.6			
FM	(30°-60°)	1077.6	29.3			
FH	(60°-80°)	545.0	14.8			G0/660
FVH	(80°-90°)	10.5	0.3			G1/100
BL	(0°-30°)	207.1	5.6	B1/500		
BM	(30°-60°)	1077.6	29.3	B2/2500		
BH	(60°-80°)	545.0	14.8	B2/1000		G0/660
BVH	(80°-90°)	10.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





REPORT NUMBER: P268166

CATALOG NUMBER: GAN-AF-01-LED-U-5NQ-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5
2.5°	416.9	417.2	417.5	417.2	417.5	417.0	416.6	417.2	416.6	416.2	416.5
5°	420.4	420.5	420.5	420.0	420.5	420.2	419.8	420.4	419.9	419.4	419.8
7.5°	426.4	427.1	426.6	426.1	426.4	426.1	425.7	425.9	425.7	425.3	425.3
10°	434.6	435.0	434.7	434.6	434.9	434.7	434.4	434.2	434.4	433.9	433.9
12.5°	444.4	444.2	444.0	444.2	444.8	444.8	444.5	444.8	445.1	445.2	444.9
15°	454.1	454.5	454.5	454.5	455.4	456.2	456.8	457.1	457.9	458.0	457.2
17.5°	466.1	466.1	466.0	466.1	467.1	468.6	469.0	469.8	470.4	470.9	470.1
20°	479.5	479.9	479.9	480.2	481.6	483.2	483.2	483.5	483.2	483.5	483.0
22.5°	496.0	496.9	496.9	497.1	498.5	500.4	499.8	500.4	499.5	500.3	499.5
25°	517.3	518.9	518.5	518.5	519.5	520.7	520.8	521.9	521.7	522.6	522.2
27.5°	541.4	543.8	544.6	544.4	545.0	546.3	546.6	547.7	547.1	547.7	547.4
30°	570.3	571.4	572.8	573.3	574.1	575.4	575.4	575.5	574.6	575.8	576.3
32.5°	600.3	602.3	603.7	606.7	608.3	609.2	609.1	609.3	608.5	609.9	610.8
35°	640.0	641.4	643.6	646.1	648.1	647.9	647.5	647.6	647.6	648.8	649.8
37.5°	687.8	688.1	691.1	694.5	695.6	694.5	691.3	690.6	689.2	690.6	692.5
40°	738.2	739.5	745.4	747.6	748.1	746.2	741.7	739.1	735.7	737.6	740.1
42.5°	791.1	793.7	799.0	802.9	804.6	803.4	797.2	793.3	788.8	789.8	792.2
45°	849.7	852.8	860.3	864.1	867.5	865.4	859.5	853.4	846.4	846.9	850.7
47.5°	915.4	918.2	928.0	934.4	936.2	935.9	929.0	920.9	911.2	910.8	914.0
50°	988.8	991.6	1003.9	1013.7	1018.8	1018.1	1010.2	998.6	986.9	987.0	991.2
52.5°	1060.4	1064.0	1076.8	1093.7	1103.6	1110.7	1105.8	1094.8	1080.4	1080.8	1084.6
55°	1127.7	1133.8	1148.4	1171.3	1189.5	1209.4	1215.0	1214.7	1206.2	1208.5	1212.4
57.5°	1160.3	1169.2	1191.8	1228.1	1265.3	1305.5	1339.7	1365.2	1376.1	1392.5	1388.7
60°	1098.5	1112.8	1146.1	1199.3	1273.0	1357.1	1447.3	1535.4	1610.5	1667.3	1634.6
62.5°	899.5	918.1	958.4	1026.7	1138.1	1272.7	1445.3	1653.4	1880.2	2017.1	1919.4
65°	562.8	582.1	623.2	696.2	826.5	994.0	1228.1	1573.1	1996.9	2203.4	2004.4
67.5°	219.5	230.0	252.2	298.9	396.8	545.7	780.6	1172.3	1679.3	1860.1	1648.1
70°	110.0	111.0	115.2	123.7	144.7	188.0	286.1	543.6	963.1	1163.1	928.4
72.5°	79.5	79.6	81.7	85.5	92.3	101.9	120.6	166.4	313.1	478.6	293.6
75°	60.8	61.5	62.7	64.8	68.5	73.2	79.9	95.8	118.8	137.7	115.8
77.5°	46.9	48.2	49.1	51.1	53.3	56.6	58.4	64.5	75.0	79.0	77.8
80°	35.8	36.9	38.7	40.3	42.0	43.5	42.8	45.5	51.1	54.3	52.6
82.5°	22.7	24.2	29.6	31.0	31.7	32.8	31.5	31.7	34.1	36.2	34.1
85°	14.6	15.5	18.8	20.5	20.8	21.4	20.9	19.7	19.7	18.0	20.1
87.5°	6.6	6.8	8.4	10.1	10.3	9.3	9.2	8.9	7.0	6.6	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P268166

CATALOG NUMBER: GAN-AF-01-LED-U-5NQ-7027-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5
2.5°	416.3	416.6	416.9	417.4	417.5	417.5	417.6	418.0
5°	419.6	420.0	420.2	420.9	421.1	420.9	421.2	421.5
7.5°	425.3	426.2	426.6	427.4	426.9	427.6	427.7	427.7
10°	434.1	434.9	435.0	435.8	435.4	435.8	435.8	435.4
12.5°	445.4	445.6	445.1	445.6	444.9	445.2	444.8	444.4
15°	458.0	457.4	456.2	456.2	455.3	455.4	455.3	455.1
17.5°	470.3	469.3	468.3	467.9	467.1	466.9	466.4	466.4
20°	483.6	483.2	482.7	482.0	481.1	480.2	480.1	480.5
22.5°	499.8	499.6	499.6	499.4	498.2	497.3	496.9	496.9
25°	521.6	520.1	520.1	519.8	519.4	518.9	517.9	518.3
27.5°	546.1	545.2	545.9	545.7	545.2	545.2	544.6	544.6
30°	576.3	576.0	576.9	576.1	574.3	574.1	573.5	572.6
32.5°	611.0	610.7	612.3	611.2	608.5	607.0	605.5	604.9
35°	649.8	650.1	651.9	651.2	648.1	647.0	644.7	644.4
37.5°	692.2	695.0	698.3	699.1	696.4	695.6	693.1	691.8
40°	742.1	745.8	750.8	751.9	749.1	748.6	745.1	743.1
42.5°	795.2	801.4	807.5	808.7	805.9	803.1	799.6	798.2
45°	854.5	861.8	870.0	872.1	867.9	864.6	860.1	860.1
47.5°	921.0	930.4	939.4	945.1	941.3	937.9	932.5	929.0
50°	999.6	1012.4	1024.2	1030.0	1024.1	1017.5	1008.2	1005.2
52.5°	1098.2	1112.0	1122.3	1119.2	1109.9	1100.9	1090.6	1086.5
55°	1224.0	1228.7	1228.7	1216.9	1198.3	1183.0	1167.0	1161.6
57.5°	1381.5	1363.4	1335.9	1300.9	1257.0	1218.7	1192.8	1180.6
60°	1566.4	1480.1	1382.9	1287.1	1208.5	1143.7	1105.3	1087.7
62.5°	1689.6	1464.1	1269.0	1115.4	1002.4	924.3	871.1	850.4
65°	1579.1	1221.1	959.7	776.0	652.8	573.3	520.7	501.4
67.5°	1156.7	765.1	511.0	366.2	268.5	214.1	192.5	183.6
70°	519.2	269.4	165.2	128.9	111.2	102.0	98.1	96.7
72.5°	156.6	113.2	95.5	86.1	79.1	74.6	71.3	71.1
75°	94.4	78.6	69.8	64.3	59.7	56.2	54.4	54.0
77.5°	66.0	57.8	53.5	49.6	46.3	43.5	42.0	40.7
80°	46.4	42.4	40.6	38.3	36.0	33.4	31.3	30.2
82.5°	31.0	30.2	30.2	28.7	26.9	24.4	20.0	19.0
85°	20.0	19.9	20.1	19.7	18.2	15.7	12.9	12.2
87.5°	9.3	9.5	10.5	10.3	10.1	8.3	6.6	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)