

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: P191669

Luminaire Tested: **GAN-AF-01-LED-U-5WQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191669
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: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-5WQ-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4325 lumens
Efficiency: N/A
Efficacy: 127.2 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: 28.75 FT

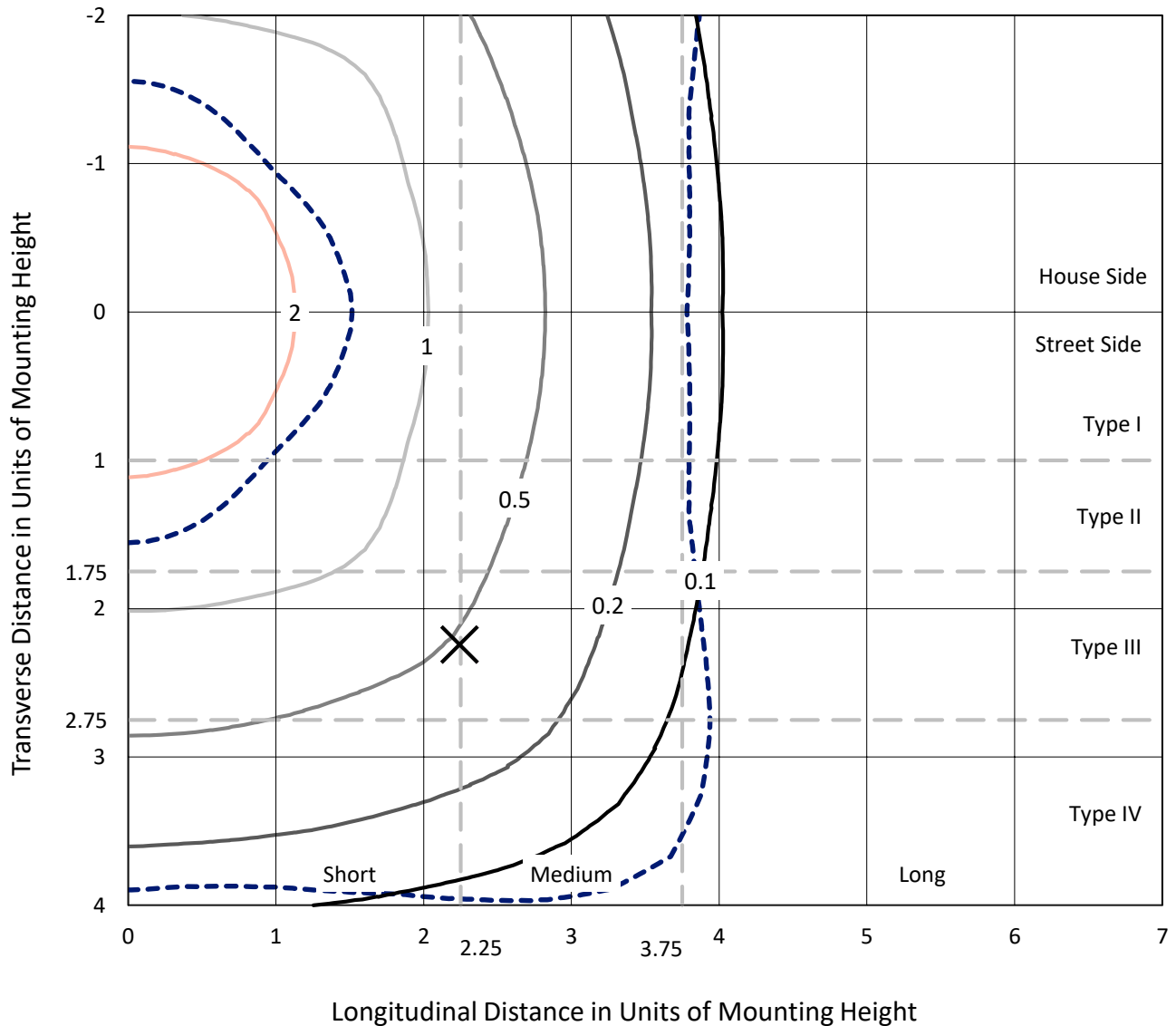


REPORT NUMBER: P191669

CATALOG NUMBER: GAN-AF-01-LED-U-5WQ-7050-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

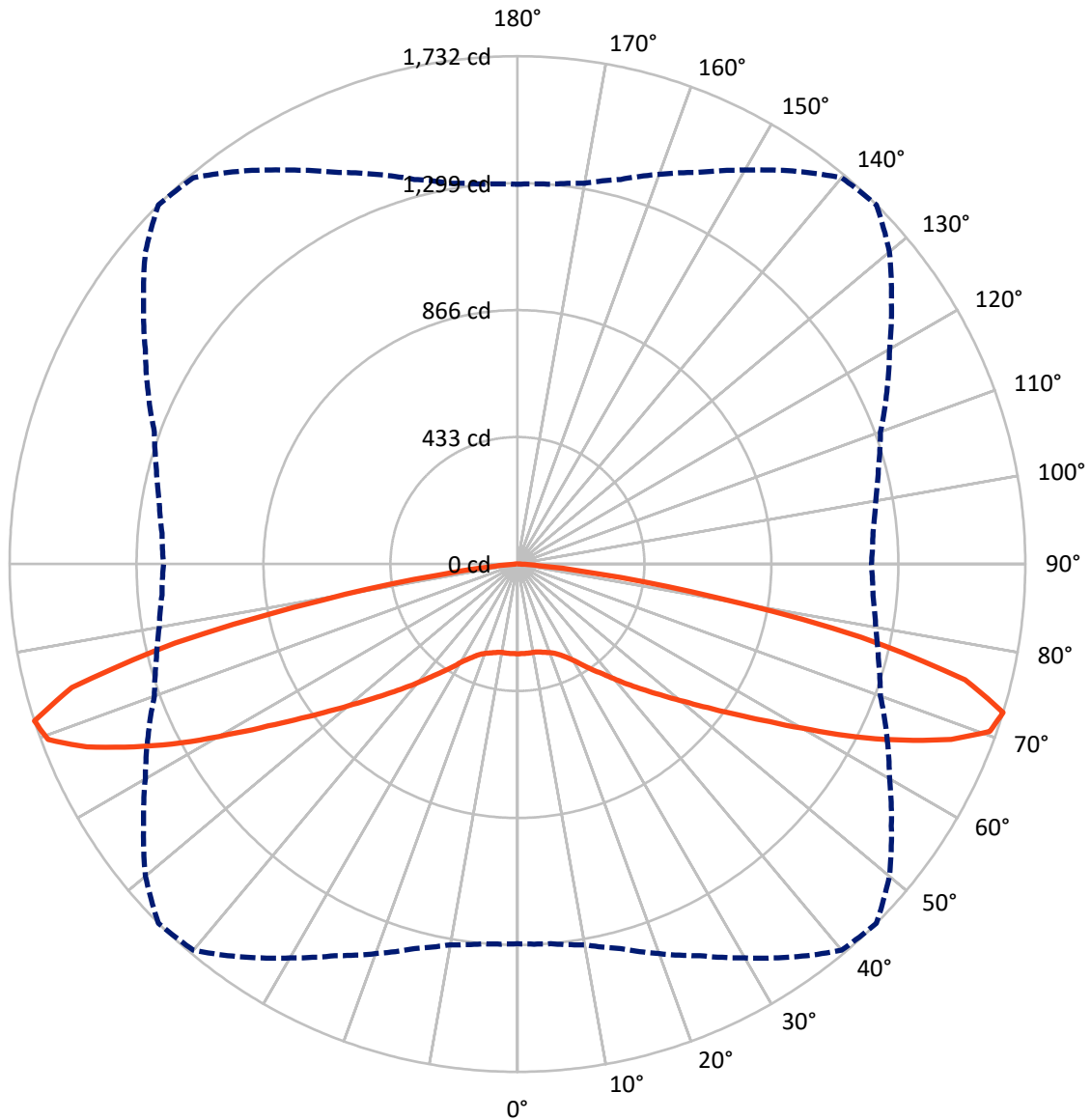


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P191669

CATALOG NUMBER: GAN-AF-01-LED-U-5WQ-7050-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191669

CATALOG NUMBER: GAN-AF-01-LED-U-5WQ-7050-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2162.5	0.0	2162.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2162.5	0.0	2162.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4325.0	0.0	4325.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.2	0.7
10°-20°	88.8	2.1
20°-30°	162.3	3.8
30°-40°	279.9	6.5
40°-50°	478.4	11.1
50°-60°	775.5	17.9
60°-70°	1286.5	29.7
70°-80°	1133.1	26.2
80°-90°	91.4	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°	4325.0	100.0
0°-180°	4325.0	100.0



REPORT NUMBER: P191669

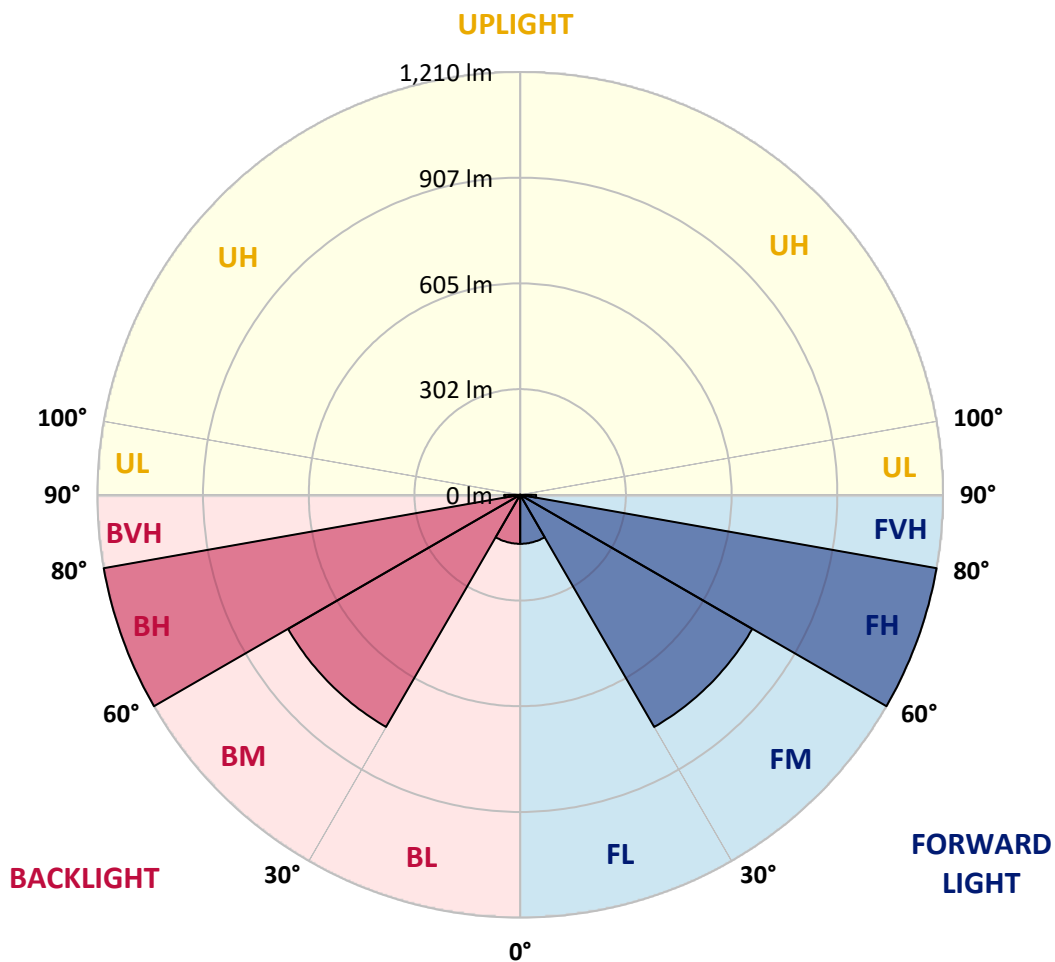
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	140.2	3.2			
FM (30°-60°)	766.9	17.7			
FH (60°-80°)	1209.8	28.0			G1/1800
FVH (80°-90°)	45.7	1.1			G1/100
BL (0°-30°)	140.2	3.2	B1/500		
BM (30°-60°)	766.9	17.7	B1/1000		
BH (60°-80°)	1209.8	28.0	B3/2500		G1/1800
BVH (80°-90°)	45.7	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





REPORT NUMBER: P191669

CATALOG NUMBER: GAN-AF-01-LED-U-5WQ-7050-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3
2.5°	306.3	306.5	306.7	306.5	306.5	306.3	306.1	306.3	306.1	305.7	305.9
5°	307.3	307.7	307.7	307.3	307.5	307.3	306.9	307.1	306.7	306.1	306.1
7.5°	308.5	308.7	308.7	308.3	308.5	308.1	307.7	307.5	307.1	306.3	305.7
10°	310.2	310.4	310.2	309.8	309.8	309.3	308.3	307.9	307.1	305.9	305.3
12.5°	312.2	312.4	312.2	311.8	311.6	310.6	309.8	309.3	308.7	307.7	306.7
15°	315.0	315.4	315.0	314.2	313.6	312.8	312.4	312.6	312.8	312.0	311.0
17.5°	320.2	320.4	319.8	318.0	317.2	316.4	316.4	316.8	317.4	317.0	316.0
20°	329.7	329.1	327.7	325.5	324.5	323.1	322.9	323.1	323.1	322.9	322.1
22.5°	341.6	341.2	339.4	336.6	335.2	334.4	333.3	332.3	332.1	331.5	330.7
25°	355.9	355.7	353.5	351.1	350.1	349.1	348.1	346.7	345.6	344.2	343.4
27.5°	374.1	373.3	370.2	369.0	367.6	367.0	365.6	364.0	363.0	361.2	360.2
30°	394.2	394.2	391.6	391.2	391.2	389.8	388.2	385.4	383.6	381.9	381.3
32.5°	414.2	414.4	411.8	412.6	413.2	414.2	414.6	413.6	412.4	412.2	411.0
35°	443.1	442.4	439.8	440.4	440.2	440.0	440.0	442.2	442.6	443.0	440.6
37.5°	479.1	479.1	476.5	476.5	475.3	474.1	472.5	473.9	476.1	476.7	475.1
40°	520.1	521.5	518.3	518.1	518.5	514.8	513.0	515.2	516.5	518.9	517.1
42.5°	568.5	567.5	564.4	564.0	561.8	560.6	559.0	560.8	563.0	564.5	565.1
45°	614.9	614.1	610.6	610.6	608.4	607.4	608.2	611.2	612.2	614.3	616.5
47.5°	660.8	659.8	657.4	658.4	658.6	660.4	662.9	665.7	668.5	671.5	672.5
50°	707.6	707.8	705.2	707.6	710.5	715.5	722.4	727.0	732.8	736.5	737.7
52.5°	750.2	751.0	753.8	759.3	765.3	775.0	786.9	798.0	807.5	813.9	813.5
55°	801.4	802.6	809.3	818.9	828.6	843.3	860.9	880.5	896.4	905.5	899.8
57.5°	866.9	869.4	877.0	889.9	904.4	923.4	947.6	977.2	1001.7	1014.0	1004.7
60°	956.7	958.3	967.4	981.7	999.2	1022.8	1055.1	1094.8	1129.5	1145.8	1135.1
62.5°	1075.1	1078.1	1085.5	1099.9	1117.8	1144.6	1184.0	1233.6	1276.9	1299.5	1275.3
65°	1216.6	1226.1	1232.2	1246.9	1263.6	1292.0	1333.2	1386.4	1432.8	1447.7	1419.7
67.5°	1356.6	1365.0	1375.7	1392.5	1409.4	1441.3	1479.6	1531.2	1582.2	1595.7	1552.2
70°	1417.9	1422.7	1439.3	1462.4	1494.7	1532.4	1576.6	1634.5	1697.6	1708.7	1653.6
72.5°	1295.1	1299.9	1318.5	1357.6	1414.0	1473.9	1551.0	1636.1	1719.4	1731.9	1656.0
75°	979.5	971.8	999.4	1051.1	1127.1	1210.6	1318.5	1440.5	1560.9	1576.6	1486.0
77.5°	506.2	505.2	526.1	590.3	681.0	776.0	894.8	1032.7	1150.5	1198.1	1124.3
80°	142.6	144.2	154.1	186.1	239.0	307.7	400.5	529.6	626.0	675.2	634.0
82.5°	55.9	60.3	64.1	70.0	77.0	87.1	116.2	173.0	232.1	277.3	227.1
85°	20.0	21.4	30.4	35.9	36.5	38.5	43.8	51.2	61.7	73.6	60.5
87.5°	7.5	8.3	9.7	16.1	15.9	14.5	17.7	18.4	13.9	12.7	15.7
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: P191669

CATALOG NUMBER: GAN-AF-01-LED-U-5WQ-7050-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	306.3	306.3	306.3	306.3	306.3	306.3	306.3	306.3
2.5°	305.5	305.7	305.7	305.9	306.1	306.1	306.5	306.5
5°	305.7	305.7	305.3	305.5	305.3	305.3	305.5	305.5
7.5°	305.3	305.1	304.7	304.5	304.1	304.1	304.1	304.1
10°	304.7	304.5	304.1	303.9	303.7	303.7	303.7	303.7
12.5°	306.3	305.7	305.3	305.1	305.1	305.1	305.1	305.1
15°	310.4	309.1	308.1	308.1	308.3	308.7	308.7	309.1
17.5°	315.6	314.0	313.0	312.2	312.6	313.2	313.6	314.0
20°	321.7	321.0	319.6	318.8	318.8	319.6	320.0	320.2
22.5°	330.3	329.7	329.1	328.1	328.1	328.5	329.3	329.3
25°	343.0	342.6	342.2	341.4	341.2	341.2	341.6	342.0
27.5°	358.8	359.0	358.6	358.4	357.9	357.7	358.2	358.1
30°	380.1	381.1	382.1	381.3	380.3	379.7	379.1	378.3
32.5°	408.8	407.6	406.8	405.5	403.7	402.1	400.9	399.5
35°	436.0	434.0	433.2	434.4	434.2	433.2	431.8	430.7
37.5°	469.3	468.9	469.3	471.5	471.1	472.1	469.3	469.1
40°	511.4	511.8	514.6	517.1	518.5	519.9	518.3	516.7
42.5°	560.2	560.0	561.0	564.5	566.9	568.5	565.1	564.7
45°	611.8	610.4	611.2	614.1	616.5	618.3	614.5	614.5
47.5°	668.5	666.1	663.5	666.9	668.3	669.5	666.5	665.5
50°	731.8	726.8	721.3	722.6	722.6	722.3	718.5	718.3
52.5°	804.4	795.2	785.1	781.4	779.2	776.8	770.3	767.1
55°	887.9	874.2	858.3	848.6	843.5	836.9	826.0	823.0
57.5°	985.5	964.1	936.7	924.8	913.3	902.6	890.5	887.1
60°	1101.1	1069.6	1033.3	1011.3	998.8	988.5	976.0	975.4
62.5°	1230.1	1180.3	1139.2	1119.4	1110.3	1101.1	1089.2	1090.8
65°	1361.2	1309.2	1270.7	1254.7	1246.1	1238.6	1226.7	1228.5
67.5°	1490.5	1442.7	1400.5	1384.0	1374.5	1365.0	1354.2	1356.0
70°	1583.4	1524.0	1476.4	1439.9	1417.1	1391.3	1374.7	1370.5
72.5°	1556.8	1465.3	1389.8	1317.3	1274.9	1240.4	1217.0	1206.9
75°	1347.3	1222.3	1125.1	1036.3	986.3	945.6	916.1	897.6
77.5°	1000.6	860.1	745.3	642.9	562.0	507.6	469.3	444.5
80°	547.7	416.6	304.5	214.0	157.3	130.7	115.4	108.1
82.5°	170.6	110.1	81.1	70.0	65.1	62.3	57.7	50.4
85°	54.4	47.6	44.2	42.3	40.3	35.1	24.2	22.0
87.5°	21.0	21.6	21.4	20.2	20.6	14.9	11.9	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)