

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: P299876

Luminaire Tested: **GLNA-AF-01-LED-E1-5WQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299876
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-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5112 lumens
Efficiency: N/A
Efficacy: 116.2 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): 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: 25 FT

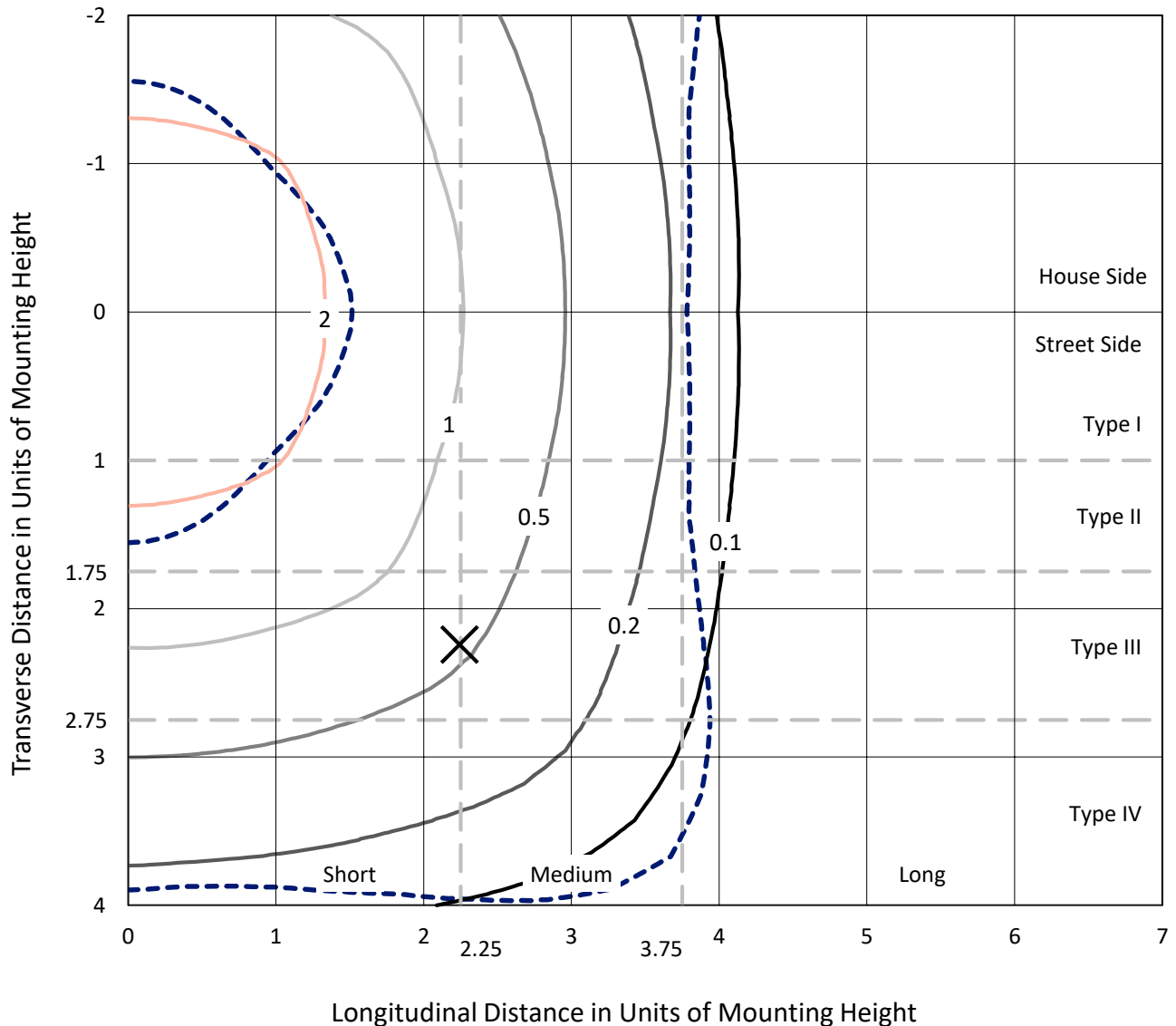


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

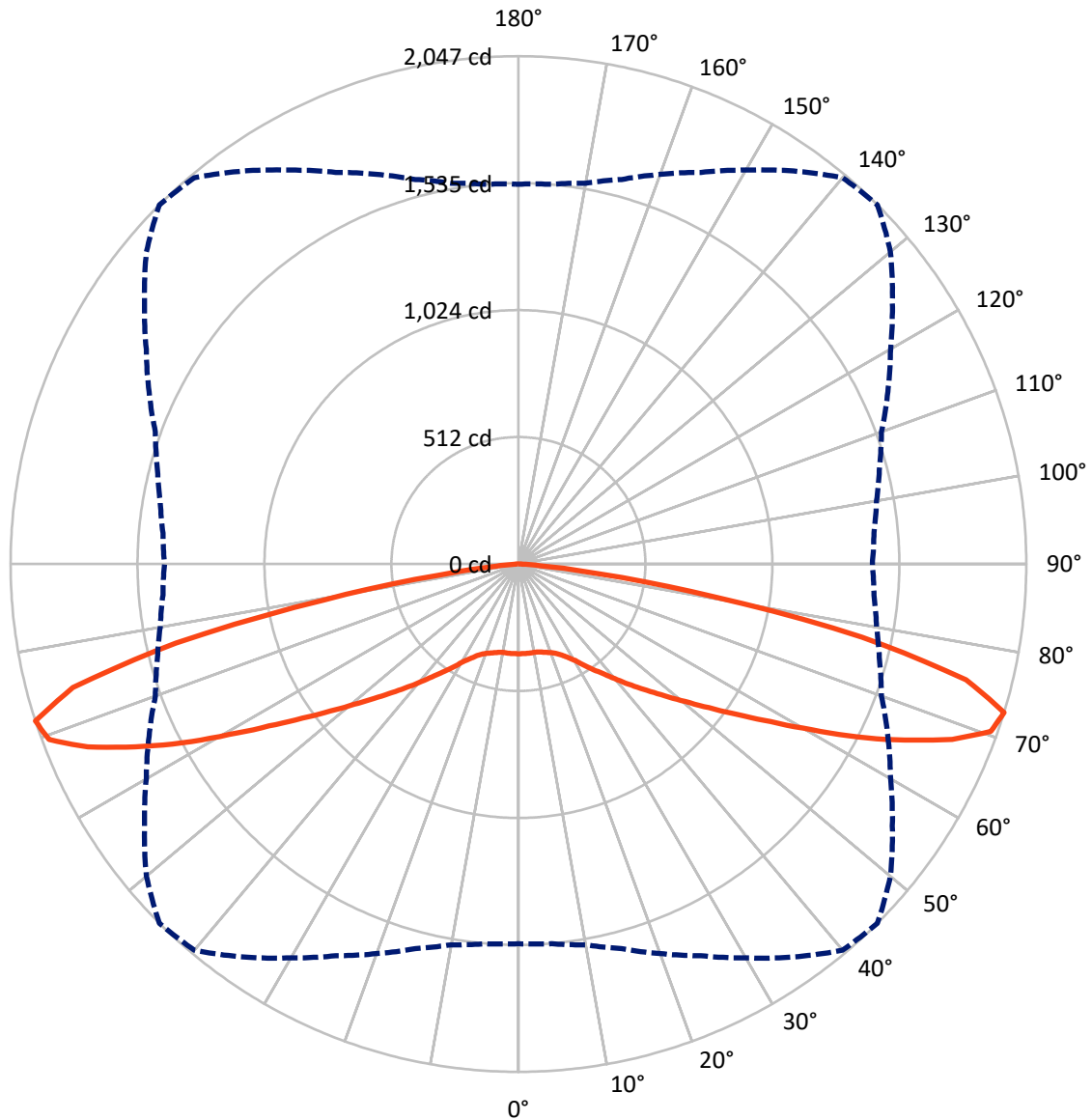


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - Semi-Cutoff

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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	2556.0	0.0	2556.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2556.0	0.0	2556.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5112.0	0.0	5112.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.6	0.7
10°-20°	105.0	2.1
20°-30°	191.9	3.8
30°-40°	330.8	6.5
40°-50°	565.5	11.1
50°-60°	916.6	17.9
60°-70°	1520.5	29.7
70°-80°	1339.2	26.2
80°-90°	108.0	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°	5112.0	100.0
0°-180°	5112.0	100.0



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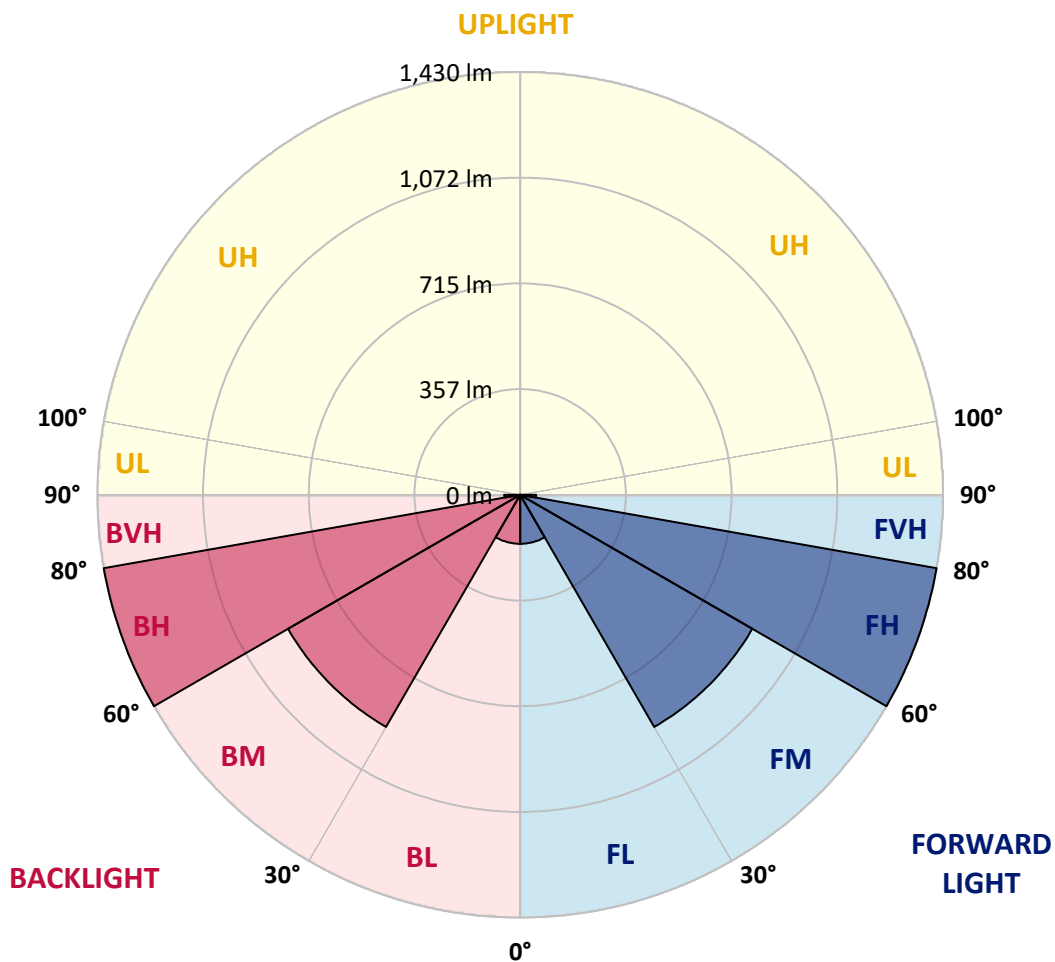
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	165.7	3.2			
FM (30°-60°)	906.4	17.7			
FH (60°-80°)	1429.9	28.0			G1/1800
FVH (80°-90°)	54.0	1.1			G1/100
BL (0°-30°)	165.7	3.2	B1/500		
BM (30°-60°)	906.4	17.7	B1/1000		
BH (60°-80°)	1429.9	28.0	B3/2500		G1/1800
BVH (80°-90°)	54.0	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°	362.0	362.0	362.0	362.0	362.0	362.0	362.0	362.0	362.0	362.0	362.0
2.5°	362.0	362.2	362.5	362.2	362.2	362.0	361.8	362.0	361.8	361.3	361.5
5°	363.2	363.6	363.6	363.2	363.4	363.2	362.7	362.9	362.5	361.8	361.8
7.5°	364.6	364.8	364.8	364.4	364.6	364.1	363.6	363.4	362.9	362.0	361.3
10°	366.7	366.9	366.7	366.2	366.2	365.5	364.4	363.9	362.9	361.5	360.8
12.5°	369.0	369.3	369.0	368.6	368.3	367.2	366.2	365.5	364.8	363.6	362.5
15°	372.3	372.8	372.3	371.4	370.7	369.7	369.3	369.5	369.7	368.8	367.6
17.5°	378.4	378.7	378.0	375.8	374.9	374.0	374.0	374.4	375.1	374.7	373.5
20°	389.7	389.0	387.3	384.7	383.6	381.9	381.7	381.9	381.9	381.7	380.8
22.5°	403.7	403.3	401.2	397.9	396.2	395.3	393.9	392.7	392.5	391.8	390.8
25°	420.6	420.4	417.8	415.0	413.8	412.7	411.5	409.8	408.4	406.8	405.9
27.5°	442.2	441.3	437.5	436.1	434.5	433.8	432.1	430.2	429.1	427.0	425.8
30°	465.9	465.9	462.8	462.4	462.4	460.7	458.8	455.6	453.4	451.3	450.6
32.5°	489.6	489.8	486.7	487.7	488.4	489.6	490.0	488.9	487.4	487.2	485.8
35°	523.8	522.8	519.8	520.5	520.3	520.0	520.0	522.6	523.1	523.6	520.7
37.5°	566.2	566.2	563.2	563.2	561.8	560.4	558.5	560.1	562.7	563.4	561.5
40°	614.8	616.4	612.6	612.4	612.9	608.4	606.3	608.9	610.5	613.3	611.2
42.5°	672.0	670.8	667.0	666.6	664.0	662.6	660.7	662.8	665.4	667.3	668.0
45°	726.8	725.9	721.7	721.7	719.1	717.9	718.9	722.4	723.5	726.1	728.7
47.5°	781.0	779.8	777.0	778.2	778.4	780.5	783.6	786.9	790.1	793.6	794.8
50°	836.3	836.6	833.5	836.3	839.8	845.7	853.9	859.3	866.1	870.6	872.0
52.5°	886.7	887.7	891.0	897.5	904.5	916.0	930.1	943.2	954.5	962.0	961.5
55°	947.2	948.6	956.6	967.9	979.3	996.7	1017.6	1040.8	1059.5	1070.3	1063.5
57.5°	1024.6	1027.6	1036.6	1051.8	1068.9	1091.4	1120.0	1155.0	1184.0	1198.6	1187.5
60°	1130.8	1132.7	1143.5	1160.3	1181.0	1208.9	1247.1	1294.0	1335.0	1354.2	1341.6
62.5°	1270.8	1274.3	1283.0	1300.1	1321.2	1352.8	1399.5	1458.1	1509.2	1536.0	1507.3
65°	1437.9	1449.2	1456.5	1473.8	1493.5	1527.0	1575.8	1638.6	1693.5	1711.1	1678.0
67.5°	1603.5	1613.3	1626.0	1645.9	1665.8	1703.6	1748.8	1809.8	1870.1	1886.0	1834.7
70°	1675.9	1681.6	1701.2	1728.4	1766.7	1811.2	1863.5	1932.0	2006.5	2019.6	1954.5
72.5°	1530.8	1536.4	1558.5	1604.6	1671.2	1742.0	1833.2	1933.8	2032.3	2047.1	1957.3
75°	1157.8	1148.6	1181.2	1242.4	1332.2	1430.9	1558.5	1702.7	1845.0	1863.5	1756.3
77.5°	598.3	597.2	621.8	697.8	804.9	917.2	1057.7	1220.6	1359.9	1416.1	1328.9
80°	168.6	170.5	182.2	219.9	282.5	363.6	473.4	626.0	740.0	798.1	749.3
82.5°	66.1	71.3	75.7	82.8	91.0	102.9	137.4	204.4	274.3	327.8	268.5
85°	23.7	25.3	35.9	42.4	43.1	45.5	51.8	60.5	72.9	87.0	71.5
87.5°	8.9	9.8	11.5	19.0	18.8	17.1	20.9	21.8	16.4	15.0	18.5
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°	362.0	362.0	362.0	362.0	362.0	362.0	362.0	362.0
2.5°	361.1	361.3	361.3	361.5	361.8	361.8	362.2	362.2
5°	361.3	361.3	360.8	361.1	360.8	360.8	361.1	361.1
7.5°	360.8	360.6	360.1	359.9	359.4	359.4	359.4	359.4
10°	360.1	359.9	359.4	359.2	359.0	359.0	359.0	359.0
12.5°	362.0	361.3	360.8	360.6	360.6	360.6	360.6	360.6
15°	366.9	365.3	364.1	364.1	364.4	364.8	364.8	365.3
17.5°	373.0	371.2	370.0	369.0	369.5	370.2	370.7	371.2
20°	380.3	379.4	377.7	376.8	376.8	377.7	378.2	378.4
22.5°	390.4	389.7	389.0	387.8	387.8	388.3	389.2	389.2
25°	405.4	404.9	404.4	403.5	403.3	403.3	403.7	404.2
27.5°	424.1	424.4	423.9	423.7	423.0	422.7	423.4	423.2
30°	449.2	450.4	451.6	450.6	449.5	448.8	448.1	447.1
32.5°	483.2	481.8	480.9	479.2	477.1	475.3	473.8	472.2
35°	515.3	513.0	512.1	513.5	513.2	512.1	510.4	509.0
37.5°	554.7	554.3	554.7	557.3	556.8	558.0	554.7	554.5
40°	604.4	604.9	608.2	611.2	612.9	614.5	612.6	610.8
42.5°	662.1	661.9	663.1	667.3	670.1	672.0	668.0	667.5
45°	723.1	721.4	722.4	725.9	728.7	730.8	726.4	726.4
47.5°	790.1	787.3	784.3	788.3	789.9	791.3	787.8	786.6
50°	864.9	859.1	852.5	854.1	854.1	853.7	849.2	849.0
52.5°	950.7	940.0	928.0	923.5	921.0	918.1	910.4	906.7
55°	1049.4	1033.3	1014.5	1003.0	996.9	989.2	976.3	972.8
57.5°	1164.8	1139.5	1107.1	1093.1	1079.5	1066.8	1052.5	1048.5
60°	1301.5	1264.2	1221.3	1195.3	1180.5	1168.3	1153.5	1152.8
62.5°	1453.9	1395.0	1346.5	1323.1	1312.3	1301.5	1287.4	1289.3
65°	1608.9	1547.4	1502.0	1483.0	1472.9	1464.0	1449.9	1452.0
67.5°	1761.7	1705.2	1655.3	1635.8	1624.6	1613.3	1600.7	1602.8
70°	1871.5	1801.4	1745.1	1702.0	1675.0	1644.5	1624.8	1619.9
72.5°	1840.0	1732.0	1642.6	1557.1	1506.9	1466.1	1438.4	1426.5
75°	1592.5	1444.7	1329.9	1224.8	1165.7	1117.7	1082.7	1060.9
77.5°	1182.6	1016.6	880.9	759.9	664.2	600.0	554.7	525.4
80°	647.3	492.4	359.9	253.0	185.9	154.5	136.5	127.8
82.5°	201.6	130.1	95.9	82.8	76.9	73.6	68.2	59.6
85°	64.2	56.3	52.3	49.9	47.6	41.5	28.6	26.0
87.5°	24.9	25.6	25.3	23.9	24.4	17.6	14.1	12.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)