

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: P268163

Luminaire Tested: **GAN-AF-01-LED-U-5MQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-5MQ-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4596.3 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full 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

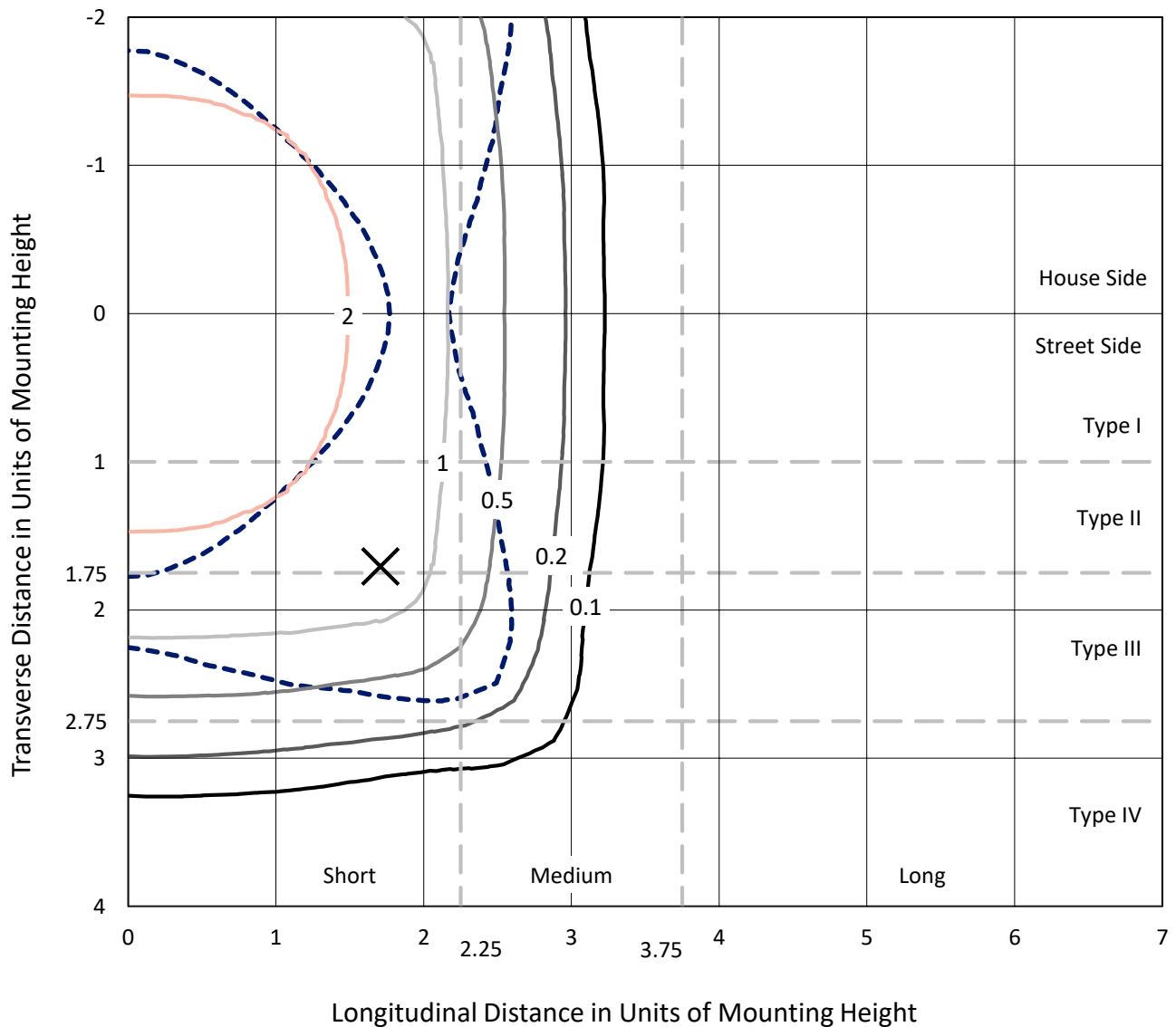


REPORT NUMBER: P268163

CATALOG NUMBER: GAN-AF-01-LED-U-5MQ-7027-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

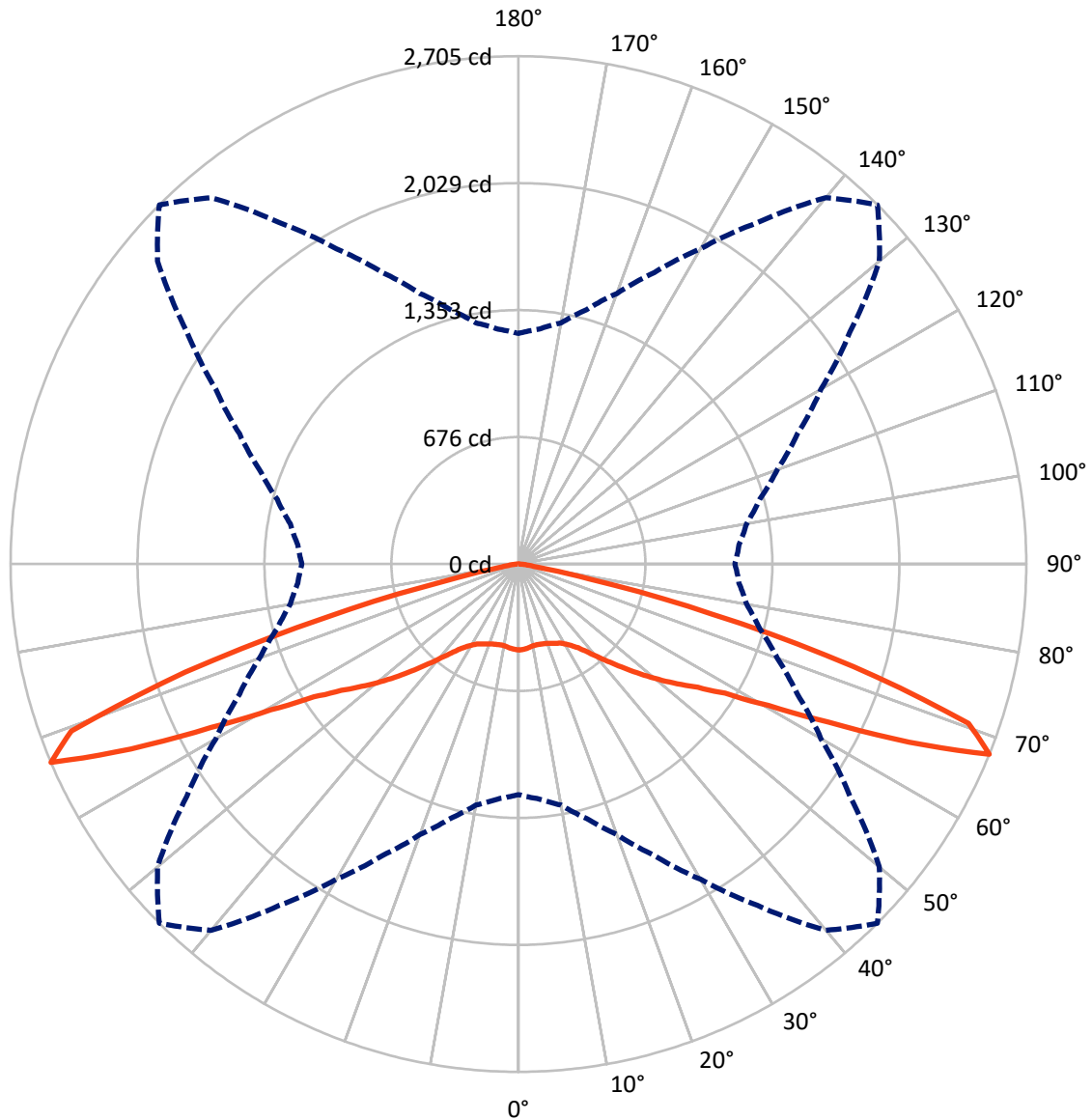


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P268163

CATALOG NUMBER: GAN-AF-01-LED-U-5MQ-7027-800

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P268163

CATALOG NUMBER: GAN-AF-01-LED-U-5MQ-7027-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2298.1	0.0	2298.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2298.1	0.0	2298.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	4596.3	0.0	4596.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	0.9
10°-20°	124.4	2.7
20°-30°	211.5	4.6
30°-40°	345.7	7.5
40°-50°	617.1	13.4
50°-60°	1040.5	22.6
60°-70°	1614.7	35.1
70°-80°	567.3	12.3
80°-90°	32.1	0.7
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°	4596.3	100.0
0°-180°	4596.3	100.0



REPORT NUMBER: P268163

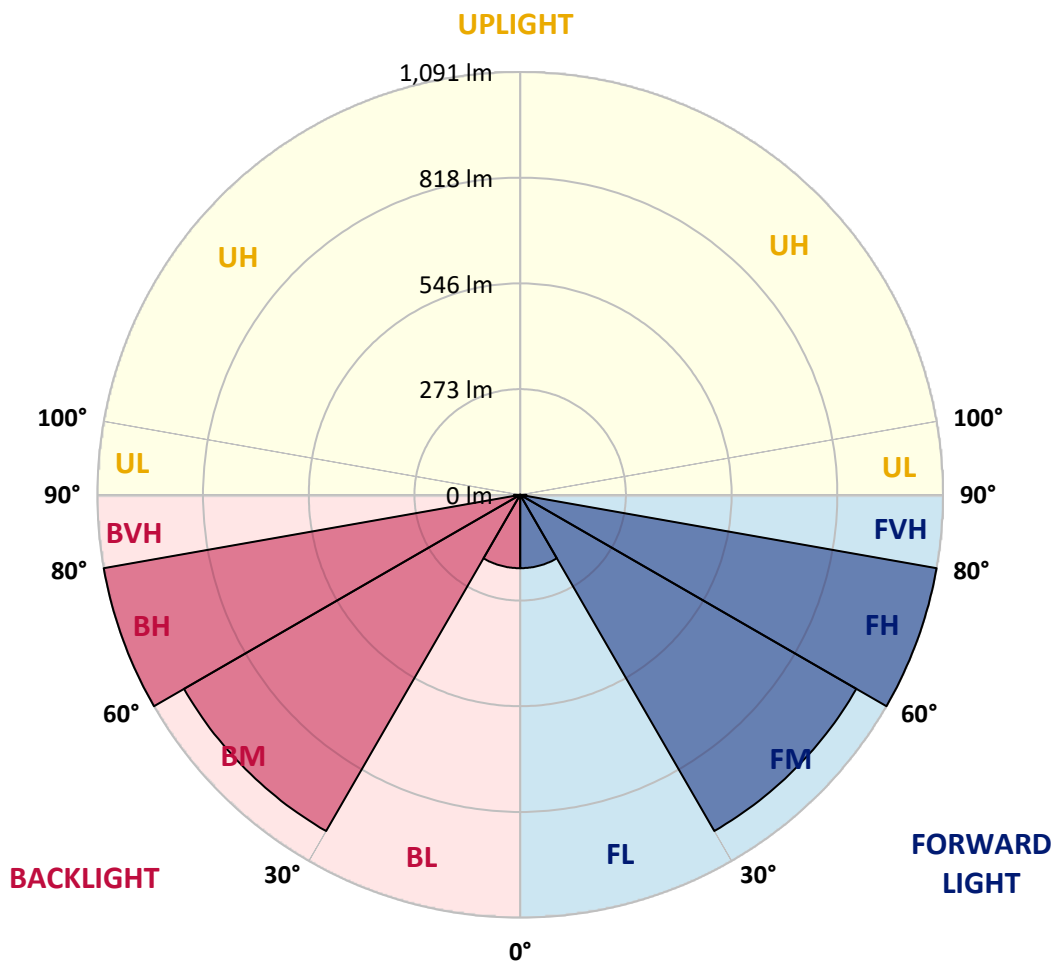
CATALOG NUMBER: GAN-AF-01-LED-U-5MQ-7027-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	189.4	4.1			
FM	(30°-60°)	1001.7	21.8			
FH	(60°-80°)	1091.0	23.7			G1/1800
FVH	(80°-90°)	16.0	0.3			G1/100
BL	(0°-30°)	189.4	4.1	B1/500		
BM	(30°-60°)	1001.7	21.8	B2/2500		
BH	(60°-80°)	1091.0	23.7	B3/2500		G1/1800
BVH	(80°-90°)	16.0	0.3			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: P268163

CATALOG NUMBER: GAN-AF-01-LED-U-5MQ-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	458.0	458.0	458.0	458.0	458.0	458.0	458.0	458.0	458.0	458.0	458.0
2.5°	456.3	456.8	456.8	456.8	456.6	456.6	456.1	456.6	456.3	455.7	455.9
5°	452.6	452.9	452.9	452.7	453.4	453.1	452.6	452.9	452.7	452.3	452.6
7.5°	447.0	447.6	447.6	447.4	448.2	447.9	447.4	447.6	447.6	447.0	447.0
10°	440.9	441.3	441.3	441.2	442.1	442.1	442.0	442.7	442.9	442.1	441.7
12.5°	435.1	435.9	435.9	436.7	437.7	438.2	439.2	440.1	440.9	440.7	439.9
15°	431.8	432.3	433.2	434.2	435.9	437.4	439.0	440.9	442.7	443.0	441.7
17.5°	429.7	430.4	431.6	433.2	435.4	438.0	440.4	443.0	445.4	446.2	444.8
20°	429.1	429.5	430.7	433.3	436.4	440.3	443.9	446.8	450.1	451.0	450.1
22.5°	430.4	431.1	432.7	435.7	439.9	444.8	449.0	452.9	457.0	458.9	457.3
25°	436.0	436.8	438.8	442.7	447.3	452.3	457.1	461.9	465.4	467.4	466.3
27.5°	446.6	447.6	450.1	453.9	458.9	464.3	469.6	473.4	476.5	477.1	475.8
30°	462.4	464.9	467.6	471.8	477.7	482.3	487.6	491.1	494.5	494.5	493.6
32.5°	487.2	489.5	492.5	496.6	501.2	506.3	510.9	513.8	517.7	517.9	515.3
35°	524.3	525.2	527.8	530.3	534.5	539.1	543.0	544.9	548.1	548.2	546.0
37.5°	572.9	573.3	574.9	575.8	579.5	584.4	588.2	589.5	592.4	592.1	589.6
40°	629.9	630.9	631.6	632.9	636.9	641.5	645.5	646.2	649.4	648.7	645.7
42.5°	695.6	696.0	699.6	701.5	705.3	707.7	712.7	713.3	717.1	715.5	712.0
45°	769.4	773.3	776.6	780.4	784.4	787.2	791.1	790.2	792.8	790.2	788.4
47.5°	846.9	849.6	857.3	863.2	869.7	872.2	877.9	875.3	877.9	874.2	873.6
50°	932.4	937.2	943.8	950.5	957.6	961.2	968.7	965.6	968.9	965.6	963.6
52.5°	1016.5	1017.7	1032.2	1042.0	1051.7	1056.1	1060.7	1059.2	1059.5	1059.2	1057.2
55°	1096.4	1099.3	1113.7	1127.3	1144.1	1156.6	1164.3	1163.3	1161.5	1159.6	1156.4
57.5°	1186.4	1189.4	1205.9	1222.6	1241.7	1259.6	1275.0	1290.9	1297.0	1298.7	1291.8
60°	1308.2	1307.9	1329.9	1350.2	1377.7	1404.1	1437.9	1472.4	1511.9	1530.4	1506.0
62.5°	1432.1	1437.1	1468.8	1504.8	1561.3	1616.6	1678.9	1740.1	1802.8	1853.7	1799.7
65°	1417.3	1436.7	1483.8	1565.1	1669.8	1794.2	1928.5	2070.9	2199.3	2287.7	2188.5
67.5°	1228.3	1256.0	1303.9	1402.9	1533.6	1713.0	1938.7	2220.0	2547.1	2705.2	2509.1
70°	890.3	921.7	971.8	1068.4	1198.0	1368.4	1613.5	1951.4	2384.2	2543.6	2327.8
72.5°	443.0	459.9	491.1	552.5	650.6	788.8	1011.2	1335.9	1718.8	1865.2	1668.0
75°	150.5	158.3	163.6	183.7	214.8	269.1	379.7	584.0	890.8	1068.1	878.3
77.5°	86.9	87.0	90.6	94.2	99.5	105.6	120.3	157.9	273.1	387.9	282.5
80°	56.2	56.1	59.0	61.8	65.2	68.4	69.1	73.1	84.4	100.0	89.4
82.5°	29.1	32.8	39.3	42.8	49.6	50.9	49.2	47.8	50.6	52.5	53.7
85°	16.1	14.0	20.9	27.0	30.1	30.5	30.5	28.7	29.9	29.1	31.7
87.5°	7.4	6.7	8.3	13.4	14.2	12.0	12.7	11.1	8.1	7.8	8.9
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: P268163

CATALOG NUMBER: GAN-AF-01-LED-U-5MQ-7027-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	458.0	458.0	458.0	458.0	458.0	458.0	458.0	458.0
2.5°	455.9	456.1	456.1	456.8	457.0	457.3	457.9	458.0
5°	452.3	452.9	452.6	453.1	453.1	453.6	453.6	453.9
7.5°	447.0	447.6	447.6	447.6	447.4	448.2	448.2	448.2
10°	441.5	442.0	441.7	441.3	440.9	441.5	441.3	441.2
12.5°	439.9	438.8	438.0	437.6	436.7	436.8	436.2	436.2
15°	440.9	439.0	437.6	436.8	436.0	435.7	435.1	435.4
17.5°	443.7	441.3	439.5	438.5	437.4	436.7	435.9	436.0
20°	448.6	445.7	443.0	440.9	439.0	438.0	437.4	437.1
22.5°	455.7	451.7	447.6	444.5	442.0	440.4	439.9	439.5
25°	464.0	459.6	454.9	451.3	448.8	446.8	445.6	445.6
27.5°	474.3	470.7	466.5	462.3	459.9	458.0	457.1	456.8
30°	491.6	488.3	484.8	480.9	477.9	476.0	474.6	473.2
32.5°	513.8	511.0	508.4	505.3	502.6	500.0	497.8	496.8
35°	545.1	543.0	541.0	537.7	536.6	535.2	534.0	532.9
37.5°	588.2	587.4	587.4	583.8	583.0	582.3	581.1	581.3
40°	645.0	645.7	644.7	643.4	642.7	641.1	641.1	642.6
42.5°	711.8	712.5	714.8	712.7	715.1	713.0	711.6	712.7
45°	789.7	791.9	796.6	794.6	796.0	792.5	788.1	788.3
47.5°	876.9	879.1	881.0	879.5	879.7	873.8	867.9	866.4
50°	967.7	968.6	969.5	967.5	967.8	961.2	954.5	954.8
52.5°	1057.2	1061.3	1065.5	1059.8	1058.6	1051.1	1041.7	1037.8
55°	1159.8	1165.6	1160.6	1150.6	1140.8	1130.8	1118.4	1116.2
57.5°	1286.3	1276.4	1261.2	1242.4	1228.7	1214.8	1202.0	1196.8
60°	1462.0	1425.5	1398.0	1370.2	1352.6	1335.4	1318.7	1316.1
62.5°	1710.6	1647.4	1592.7	1534.9	1487.9	1451.0	1421.7	1413.5
65°	2022.2	1872.7	1743.3	1622.2	1517.1	1437.9	1388.2	1366.1
67.5°	2156.2	1861.1	1639.0	1467.3	1329.9	1234.0	1180.1	1153.2
70°	1894.7	1543.4	1301.9	1130.0	1004.8	902.5	853.7	825.0
72.5°	1303.5	981.8	776.3	633.7	533.8	448.2	414.3	411.8
75°	585.2	387.7	267.2	205.9	173.4	150.7	143.6	138.5
77.5°	163.9	121.1	107.9	101.0	94.2	86.4	83.5	84.1
80°	79.7	75.3	72.4	67.8	61.8	55.2	52.2	53.4
82.5°	52.8	52.2	54.1	50.9	42.1	35.8	30.1	27.5
85°	32.1	32.6	33.1	33.3	28.3	19.9	13.6	15.2
87.5°	12.7	14.6	15.9	16.4	15.5	9.5	7.6	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)