

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: P299935

Luminaire Tested: **GLNA-AF-01-LED-E1-5WQ-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299935  
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-7027-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K 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: 3744.2 lumens  
Efficiency: N/A  
Efficacy: 110.1 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

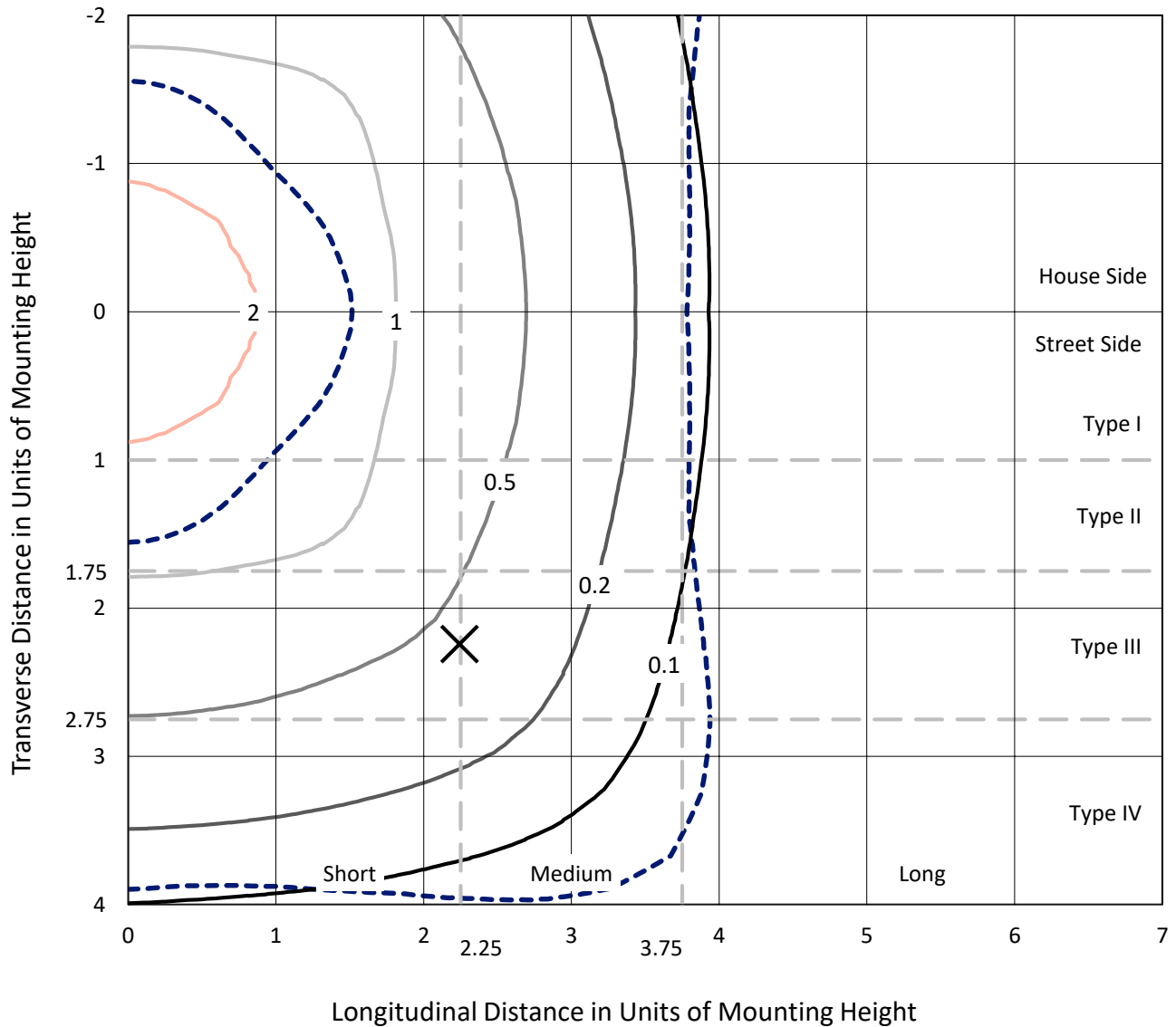


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

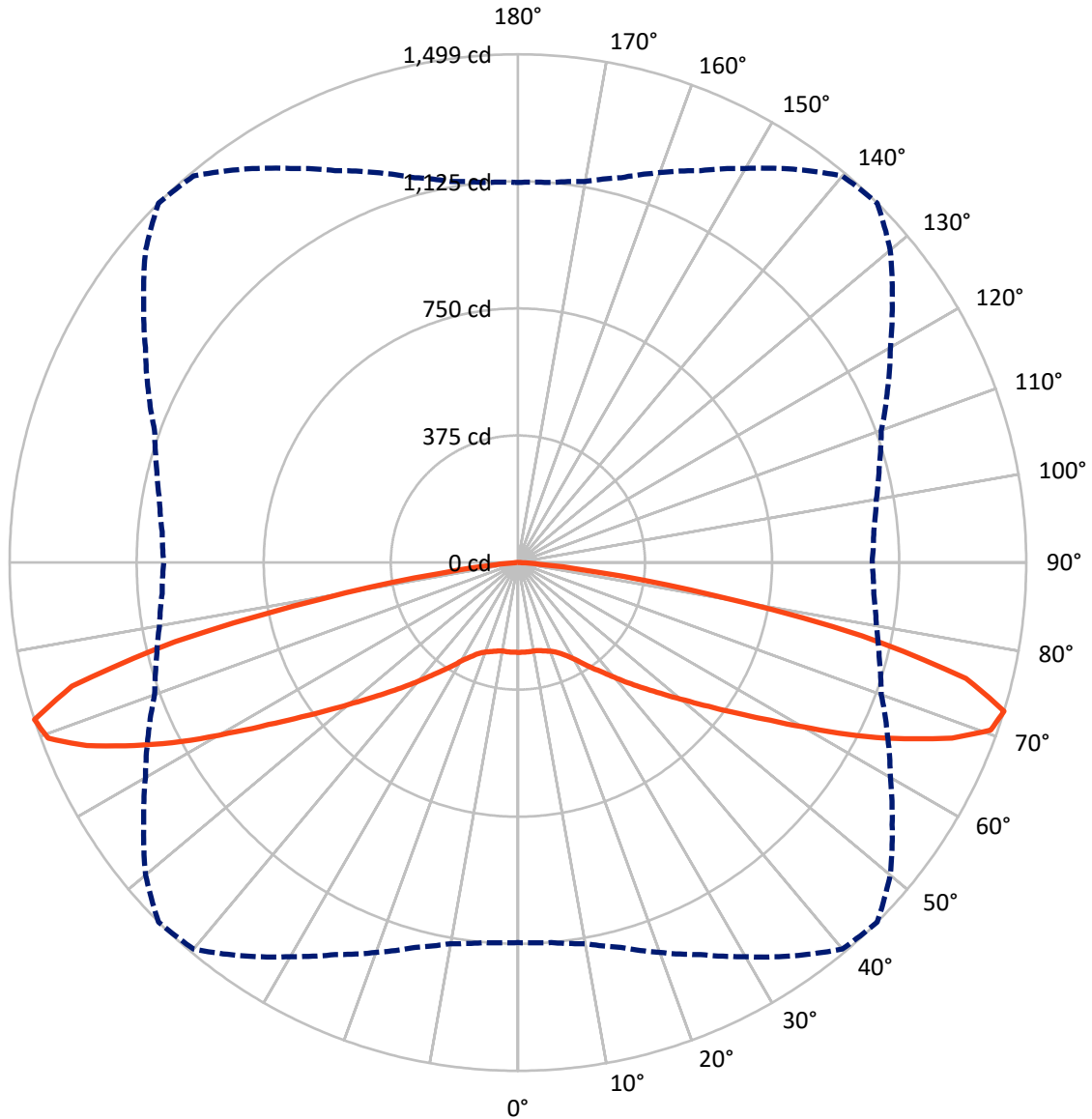


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc  
 Type V - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	1872.1	0.0	1872.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1872.1	0.0	1872.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3744.2	0.0	3744.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.3	0.7
10°-20°	76.9	2.1
20°-30°	140.5	3.8
30°-40°	242.3	6.5
40°-50°	414.2	11.1
50°-60°	671.3	17.9
60°-70°	1113.7	29.7
70°-80°	980.9	26.2
80°-90°	79.1	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°	3744.2	100.0
0°-180°	3744.2	100.0



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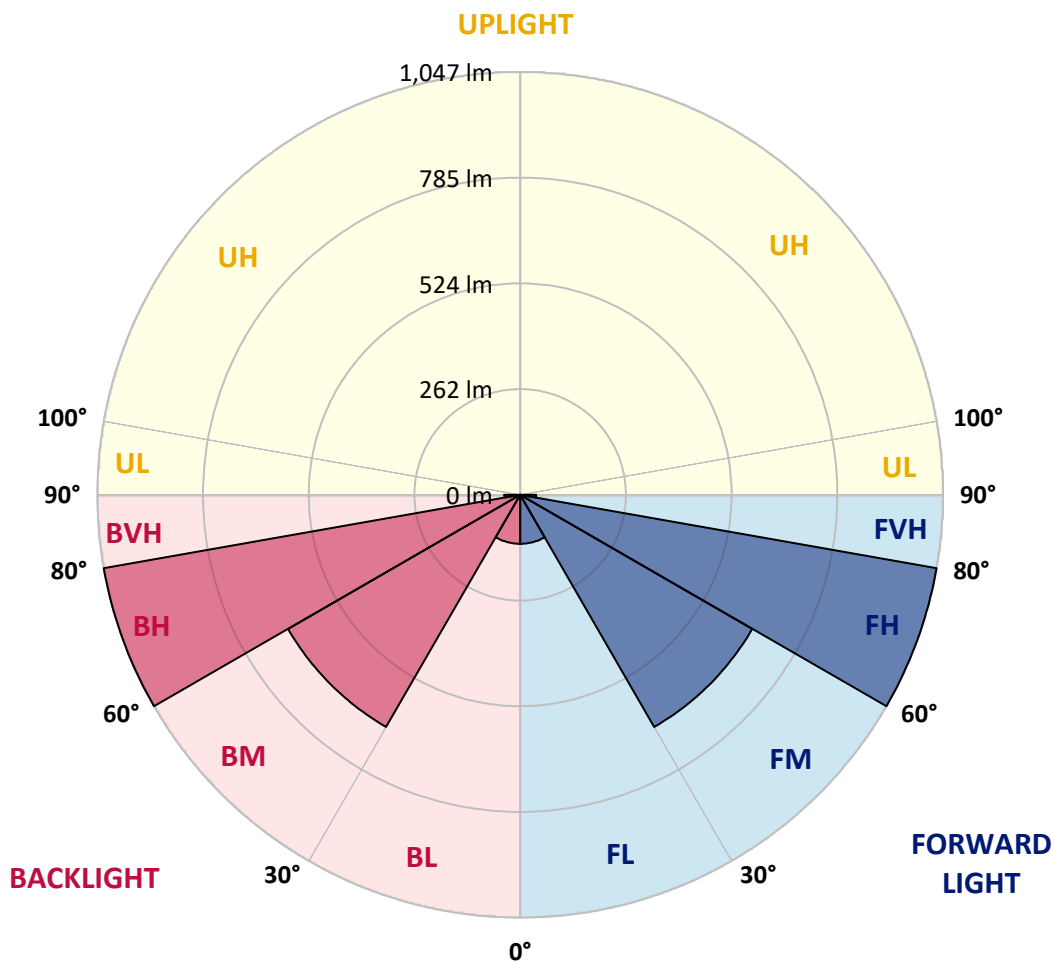
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	121.4	3.2			
FM (30°-60°)	663.9	17.7			
FH (60°-80°)	1047.3	28.0			G1/1800
FVH (80°-90°)	39.5	1.1			G1/100
BL (0°-30°)	121.4	3.2	B1/500		
BM (30°-60°)	663.9	17.7	B1/1000		
BH (60°-80°)	1047.3	28.0	B3/2500		G1/1800
BVH (80°-90°)	39.5	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°	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1
2.5°	265.1	265.3	265.5	265.3	265.3	265.1	265.0	265.1	265.0	264.6	264.8
5°	266.0	266.3	266.3	266.0	266.2	266.0	265.7	265.8	265.5	265.0	265.0
7.5°	267.0	267.2	267.2	266.9	267.0	266.7	266.3	266.2	265.8	265.1	264.6
10°	268.6	268.8	268.6	268.2	268.2	267.7	266.9	266.5	265.8	264.8	264.3
12.5°	270.3	270.5	270.3	270.0	269.8	268.9	268.2	267.7	267.2	266.3	265.5
15°	272.7	273.0	272.7	272.0	271.5	270.8	270.5	270.6	270.8	270.1	269.3
17.5°	277.2	277.3	276.8	275.3	274.6	273.9	273.9	274.2	274.8	274.4	273.6
20°	285.4	284.9	283.7	281.8	280.9	279.7	279.6	279.7	279.7	279.6	278.9
22.5°	295.7	295.4	293.8	291.4	290.2	289.5	288.5	287.6	287.5	287.0	286.3
25°	308.1	307.9	306.0	304.0	303.1	302.2	301.4	300.2	299.1	297.9	297.3
27.5°	323.9	323.2	320.4	319.4	318.2	317.7	316.5	315.1	314.3	312.7	311.9
30°	341.2	341.2	339.0	338.6	338.6	337.4	336.1	333.7	332.1	330.6	330.1
32.5°	358.6	358.7	356.5	357.2	357.7	358.6	358.9	358.1	357.0	356.8	355.8
35°	383.6	383.0	380.7	381.2	381.1	380.9	380.9	382.8	383.1	383.5	381.4
37.5°	414.7	414.7	412.5	412.5	411.5	410.4	409.1	410.3	412.1	412.7	411.3
40°	450.3	451.5	448.7	448.6	448.9	445.6	444.1	446.0	447.2	449.2	447.7
42.5°	492.2	491.3	488.6	488.2	486.3	485.3	483.9	485.5	487.4	488.7	489.3
45°	532.4	531.7	528.6	528.6	526.7	525.8	526.5	529.1	530.0	531.8	533.7
47.5°	572.0	571.2	569.1	570.0	570.1	571.7	573.9	576.3	578.7	581.3	582.2
50°	612.6	612.7	610.5	612.6	615.1	619.4	625.4	629.4	634.4	637.6	638.7
52.5°	649.5	650.2	652.6	657.4	662.5	670.9	681.2	690.9	699.1	704.6	704.3
55°	693.8	694.8	700.6	708.9	717.3	730.0	745.3	762.3	776.0	783.9	779.0
57.5°	750.4	752.7	759.2	770.4	782.9	799.4	820.3	845.9	867.2	877.9	869.8
60°	828.2	829.6	837.5	849.9	865.0	885.4	913.4	947.8	977.8	991.9	982.6
62.5°	930.8	933.3	939.7	952.2	967.7	990.9	1025.0	1068.0	1105.4	1125.0	1104.0
65°	1053.2	1061.4	1066.8	1079.5	1093.9	1118.5	1154.2	1200.2	1240.4	1253.3	1229.1
67.5°	1174.4	1181.7	1190.9	1205.5	1220.1	1247.8	1280.9	1325.6	1369.7	1381.4	1343.8
70°	1227.5	1231.6	1246.1	1266.0	1294.0	1326.6	1364.9	1415.0	1469.6	1479.3	1431.5
72.5°	1121.2	1125.3	1141.5	1175.3	1224.1	1275.9	1342.7	1416.4	1488.5	1499.4	1433.6
75°	848.0	841.3	865.2	910.0	975.8	1048.1	1141.5	1247.1	1351.3	1364.9	1286.4
77.5°	438.2	437.4	455.4	511.1	589.5	671.8	774.7	894.0	996.0	1037.2	973.4
80°	123.5	124.8	133.4	161.1	206.9	266.3	346.7	458.5	542.0	584.6	548.8
82.5°	48.4	52.2	55.5	60.6	66.6	75.4	100.6	149.7	200.9	240.1	196.6
85°	17.3	18.5	26.3	31.1	31.6	33.3	38.0	44.3	53.4	63.7	52.4
87.5°	6.5	7.2	8.4	13.9	13.7	12.5	15.3	16.0	12.0	11.0	13.6
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°	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1
2.5°	264.5	264.6	264.6	264.8	265.0	265.0	265.3	265.3
5°	264.6	264.6	264.3	264.5	264.3	264.3	264.5	264.5
7.5°	264.3	264.1	263.8	263.6	263.3	263.3	263.3	263.3
10°	263.8	263.6	263.3	263.1	262.9	262.9	262.9	262.9
12.5°	265.1	264.6	264.3	264.1	264.1	264.1	264.1	264.1
15°	268.8	267.6	266.7	266.7	266.9	267.2	267.2	267.6
17.5°	273.2	271.8	271.0	270.3	270.6	271.2	271.5	271.8
20°	278.5	277.9	276.7	276.0	276.0	276.7	277.0	277.2
22.5°	285.9	285.4	284.9	284.0	284.0	284.4	285.1	285.1
25°	296.9	296.6	296.2	295.5	295.4	295.4	295.7	296.1
27.5°	310.7	310.8	310.5	310.3	309.8	309.6	310.1	310.0
30°	329.0	329.9	330.7	330.1	329.2	328.7	328.2	327.5
32.5°	353.9	352.9	352.2	351.0	349.5	348.1	347.1	345.9
35°	377.5	375.7	375.1	376.1	375.9	375.1	373.9	372.8
37.5°	406.3	406.0	406.3	408.2	407.9	408.7	406.3	406.1
40°	442.7	443.1	445.5	447.7	448.9	450.1	448.7	447.4
42.5°	485.0	484.8	485.6	488.7	490.8	492.2	489.3	488.9
45°	529.6	528.4	529.1	531.7	533.7	535.3	532.0	532.0
47.5°	578.7	576.7	574.4	577.3	578.5	579.6	577.0	576.1
50°	633.5	629.2	624.4	625.6	625.6	625.3	622.0	621.8
52.5°	696.4	688.5	679.7	676.4	674.5	672.5	666.8	664.1
55°	768.7	756.8	743.1	734.7	730.2	724.5	715.1	712.5
57.5°	853.1	834.6	810.9	800.6	790.6	781.4	770.9	768.0
60°	953.3	926.0	894.5	875.5	864.6	855.7	844.9	844.4
62.5°	1064.9	1021.8	986.2	969.1	961.2	953.3	943.0	944.3
65°	1178.4	1133.4	1100.1	1086.2	1078.8	1072.3	1062.0	1063.5
67.5°	1290.4	1249.0	1212.4	1198.1	1189.9	1181.7	1172.4	1173.9
70°	1370.7	1319.4	1278.2	1246.6	1226.8	1204.5	1190.1	1186.5
72.5°	1347.7	1268.6	1203.1	1140.4	1103.7	1073.8	1053.5	1044.8
75°	1166.4	1058.2	974.0	897.1	853.8	818.6	793.0	777.1
77.5°	866.2	744.6	645.2	556.6	486.5	439.5	406.3	384.8
80°	474.1	360.6	263.6	185.3	136.2	113.2	99.9	93.6
82.5°	147.7	95.3	70.2	60.6	56.3	53.9	50.0	43.6
85°	47.1	41.2	38.3	36.6	34.9	30.4	21.0	19.1
87.5°	18.2	18.7	18.5	17.5	17.9	12.9	10.3	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)