

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: P300656

Luminaire Tested: **GLNA-AF-01-LED-E1-RW-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
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-RW-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4045.6 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

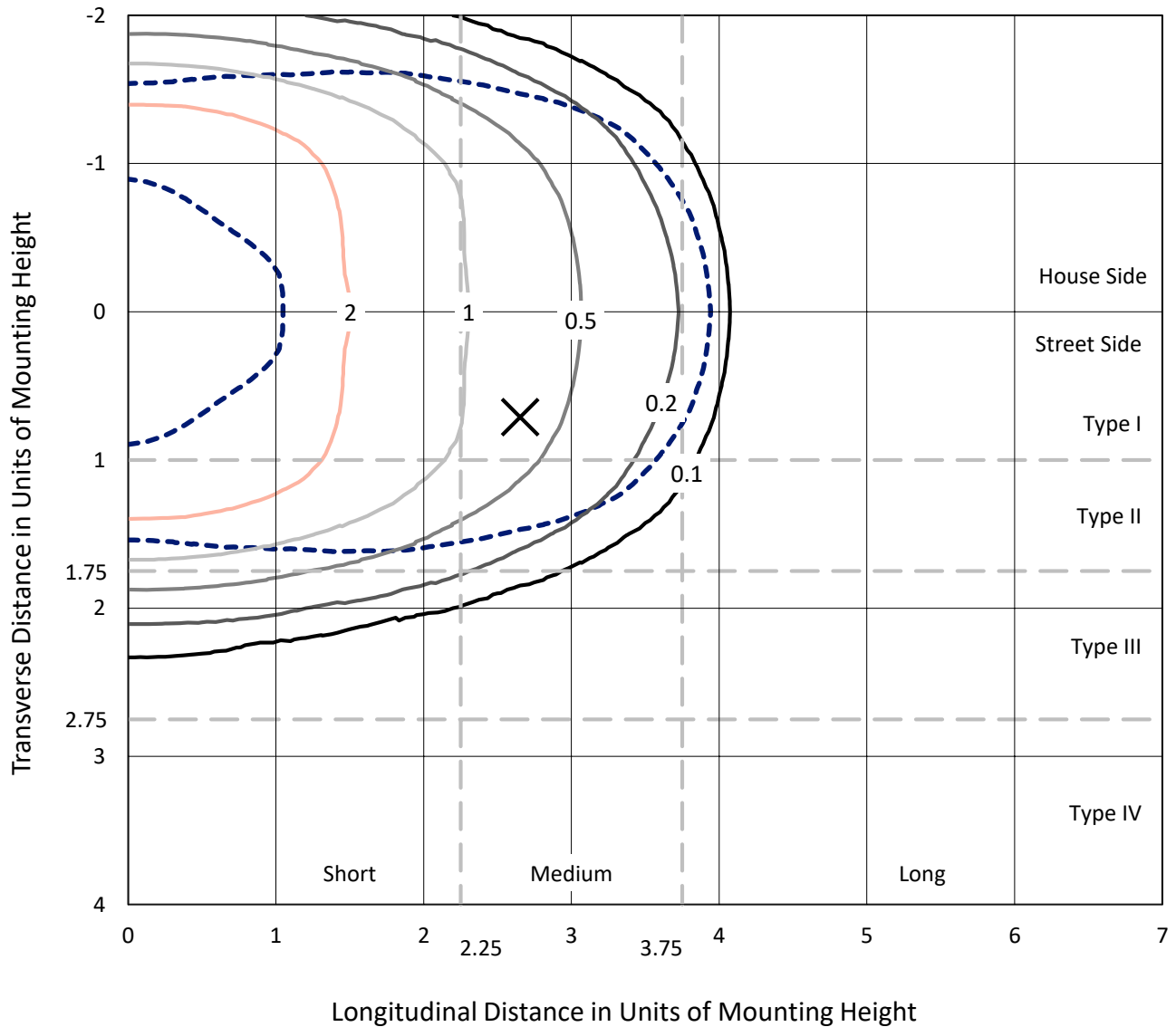
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

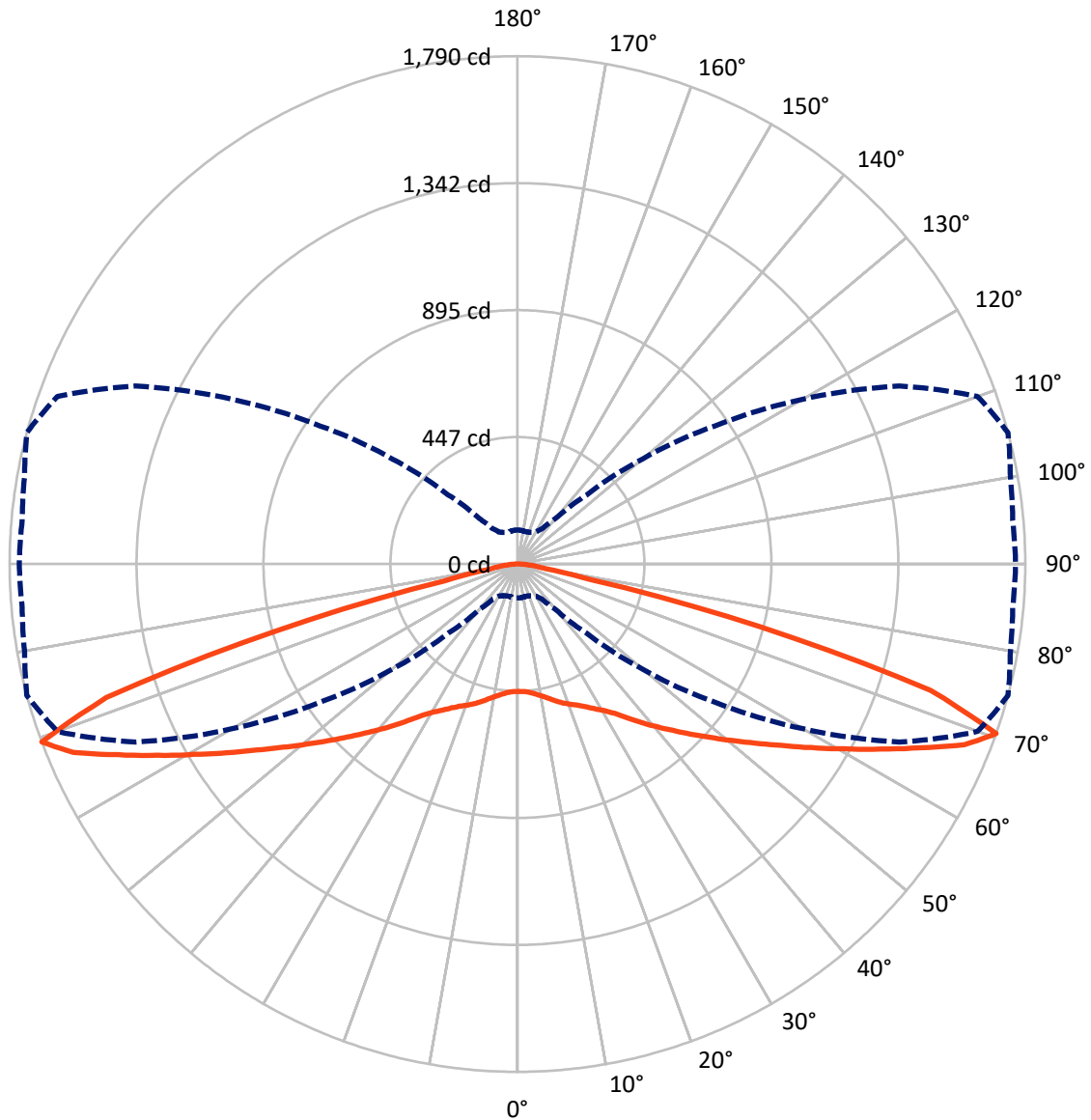
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2022.8	0.0	2022.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2022.8	0.0	2022.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	4045.6	0.0	4045.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	1.1
10°-20°	133.7	3.3
20°-30°	251.7	6.2
30°-40°	445.7	11.0
40°-50°	745.4	18.4
50°-60°	1038.7	25.7
60°-70°	963.2	23.8
70°-80°	383.9	9.5
80°-90°	40.4	1.0
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°	4045.6	100.0
0°-180°	4045.6	100.0



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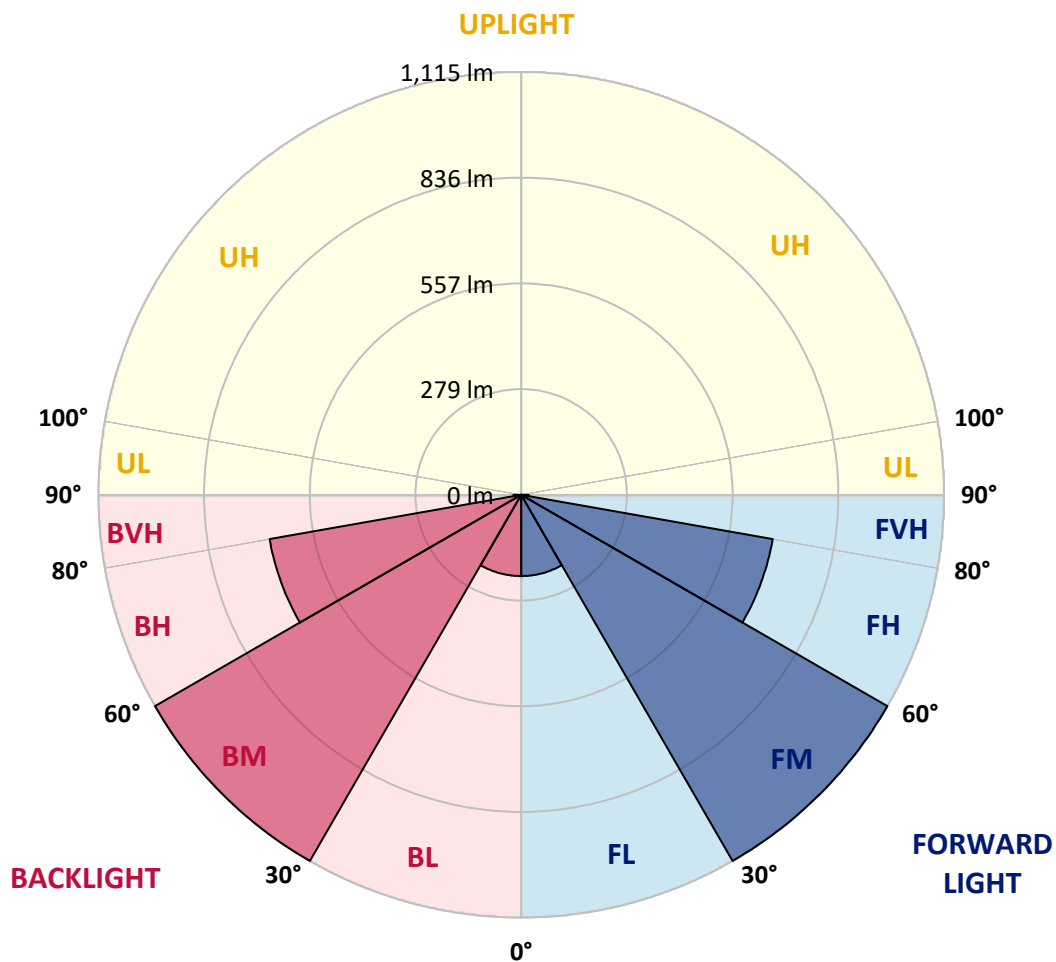
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	214.2	5.3			
FM	(30°-60°)	1114.9	27.6			
FH	(60°-80°)	673.5	16.6			G1/1800
FVH	(80°-90°)	20.2	0.5			G1/100
BL	(0°-30°)	214.2	5.3	B1/500		
BM	(30°-60°)	1114.9	27.6	B2/2500		
BH	(60°-80°)	673.5	16.6	B2/1000		G2/1000
BVH	(80°-90°)	20.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	448.8	448.8	448.8	448.8	448.8	448.8	448.8	448.8	448.8	448.8	448.8
2.5°	448.0	447.6	448.0	447.8	448.2	448.2	448.6	449.3	449.3	449.9	449.7
5°	443.6	443.4	444.0	444.5	445.1	446.3	447.4	449.1	450.5	451.4	452.4
7.5°	435.0	435.0	435.8	437.1	438.4	440.9	443.6	447.0	450.5	453.3	455.8
10°	427.9	428.3	429.3	431.5	433.8	437.7	441.3	446.3	451.0	455.8	459.7
12.5°	423.7	424.3	426.0	429.4	433.3	438.4	444.0	450.3	455.6	461.4	465.2
15°	425.0	425.4	427.9	432.1	437.1	443.6	451.0	458.5	464.8	470.9	476.1
17.5°	432.5	433.1	435.9	440.7	445.9	453.5	461.6	470.0	477.8	484.7	491.0
20°	445.9	446.5	450.1	455.3	461.4	469.2	477.2	486.0	494.8	502.1	509.2
22.5°	464.8	465.8	469.2	474.4	481.3	489.7	499.2	508.6	517.0	523.7	530.0
25°	489.7	491.8	495.0	500.8	508.0	515.7	526.0	535.6	543.6	549.9	554.5
27.5°	524.9	527.7	530.2	535.8	542.8	550.1	560.4	568.8	576.5	582.6	586.0
30°	571.5	574.4	576.9	582.2	588.7	595.6	605.3	612.8	617.6	622.4	622.2
32.5°	628.1	631.2	632.1	637.9	644.5	652.0	660.8	665.0	668.8	669.4	666.0
35°	691.4	692.9	696.7	704.4	712.0	718.2	726.6	728.7	728.7	725.8	718.2
37.5°	760.8	761.8	767.1	775.7	783.5	789.9	795.6	799.8	797.7	791.6	778.8
40°	836.9	838.6	846.3	853.9	862.7	868.6	874.8	875.5	873.4	864.4	847.0
42.5°	909.6	911.1	918.7	930.8	942.2	950.5	956.2	957.4	950.7	942.4	920.8
45°	972.1	976.1	986.0	1000.2	1016.8	1028.5	1036.3	1039.6	1033.6	1022.9	997.9
47.5°	1021.6	1025.6	1039.8	1056.6	1077.2	1096.2	1109.2	1116.1	1114.5	1106.5	1079.1
50°	1057.9	1061.7	1077.0	1097.7	1121.8	1145.3	1167.5	1183.9	1189.7	1186.0	1161.0
52.5°	1062.1	1068.4	1086.4	1114.1	1145.5	1177.6	1209.2	1237.1	1256.0	1258.9	1240.3
55°	1003.4	1009.7	1034.6	1075.7	1122.4	1174.8	1225.2	1272.3	1309.5	1328.7	1318.9
57.5°	865.0	876.3	902.5	950.7	1019.3	1097.7	1178.2	1261.7	1337.7	1388.3	1398.1
60°	662.9	676.3	702.7	753.9	830.4	923.9	1031.3	1154.9	1288.9	1402.9	1470.9
62.5°	425.2	437.9	465.6	510.1	572.5	673.8	789.1	935.7	1115.9	1295.8	1457.9
65°	218.5	225.4	240.0	266.9	315.5	391.2	494.6	640.9	846.8	1068.8	1303.2
67.5°	138.4	139.8	143.0	146.8	159.3	185.5	233.6	324.9	494.3	725.8	1000.2
70°	119.7	119.7	118.2	117.6	119.1	122.8	130.2	151.4	208.6	344.5	576.9
72.5°	109.6	108.4	105.7	103.6	103.2	103.2	104.8	108.0	117.2	140.3	225.8
75°	101.0	97.7	94.1	91.6	90.6	89.7	89.5	90.1	92.0	95.6	107.8
77.5°	90.4	86.2	82.0	79.5	78.4	77.1	75.9	74.6	73.6	74.8	80.1
80°	77.8	73.0	69.8	68.3	67.1	65.2	62.7	60.4	58.3	57.9	61.2
82.5°	62.7	57.2	57.4	57.9	55.8	53.2	50.5	48.0	44.4	42.4	44.4
85°	50.7	47.8	46.5	50.1	47.0	43.0	38.8	34.4	28.7	24.1	26.2
87.5°	19.7	19.7	29.4	45.3	40.7	33.3	28.5	24.3	15.1	11.7	11.9
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°	448.8	448.8	448.8	448.8	448.8	448.8	448.8	448.8
2.5°	449.5	449.9	449.7	449.5	449.5	449.3	449.5	449.5
5°	453.0	453.9	453.9	454.3	454.3	454.5	454.7	454.5
7.5°	458.1	459.8	461.0	462.3	462.5	462.7	463.1	462.7
10°	463.3	466.7	469.2	471.7	472.8	473.2	473.6	473.6
12.5°	469.8	474.6	479.0	483.4	485.5	486.6	486.6	487.4
15°	480.5	485.3	490.4	496.4	500.0	501.9	502.5	502.5
17.5°	495.6	499.8	504.2	509.9	514.5	517.0	517.6	517.4
20°	513.2	517.2	519.7	523.3	527.3	530.2	531.0	531.0
22.5°	533.3	535.6	535.9	537.1	540.3	544.2	545.9	546.3
25°	555.4	556.0	554.5	554.5	556.6	560.2	561.9	562.1
27.5°	584.1	581.3	577.4	576.1	577.4	581.6	583.7	584.5
30°	619.9	613.0	604.2	599.4	598.7	604.2	608.0	608.6
32.5°	660.8	650.9	639.2	629.4	627.0	630.4	635.0	634.8
35°	709.4	697.5	683.4	670.9	665.2	668.6	675.1	675.9
37.5°	765.4	749.9	733.6	718.0	709.0	709.9	716.8	719.1
40°	827.9	807.8	787.4	766.3	753.5	751.0	759.5	760.8
42.5°	894.8	869.0	843.2	817.2	800.8	796.9	806.7	806.1
45°	966.1	933.3	903.1	874.4	854.9	849.1	857.2	857.2
47.5°	1042.8	1002.3	966.3	933.8	912.6	904.4	912.0	912.6
50°	1124.1	1081.1	1038.8	1002.7	977.2	966.7	976.7	978.2
52.5°	1205.0	1163.1	1120.4	1079.1	1048.4	1035.6	1047.0	1052.0
55°	1287.0	1245.9	1205.2	1164.8	1128.3	1113.2	1125.4	1131.7
57.5°	1373.6	1335.6	1296.7	1256.0	1220.8	1197.3	1210.3	1218.7
60°	1475.1	1442.6	1402.3	1357.3	1321.8	1297.9	1305.3	1312.8
62.5°	1555.4	1568.1	1533.8	1481.8	1436.1	1405.5	1412.8	1420.6
65°	1516.6	1646.1	1676.5	1623.9	1560.6	1513.0	1509.9	1513.9
67.5°	1267.7	1519.1	1702.5	1752.6	1699.6	1633.4	1621.2	1627.1
70°	848.0	1161.2	1484.7	1725.6	1789.7	1764.0	1752.0	1755.6
72.5°	407.3	676.3	1007.3	1327.5	1522.5	1612.0	1640.7	1654.7
75°	148.9	268.4	485.5	731.5	883.2	1022.4	1113.2	1150.3
77.5°	89.9	108.4	155.1	233.5	264.4	296.0	283.7	289.9
80°	66.5	75.1	85.1	95.6	99.0	99.0	95.2	92.2
82.5°	46.7	52.2	57.0	62.7	64.2	61.4	50.5	40.2
85°	30.0	32.5	34.6	38.2	37.3	35.6	23.9	21.2
87.5°	13.8	15.7	16.4	18.2	17.4	16.6	11.9	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)