

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: P200219

Luminaire Tested: **GWC-AF-01-LED-E1-5MQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200219
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: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-5MQ-7050-600
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4400 lumens
Efficiency: N/A
Efficacy: 129.4 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): 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

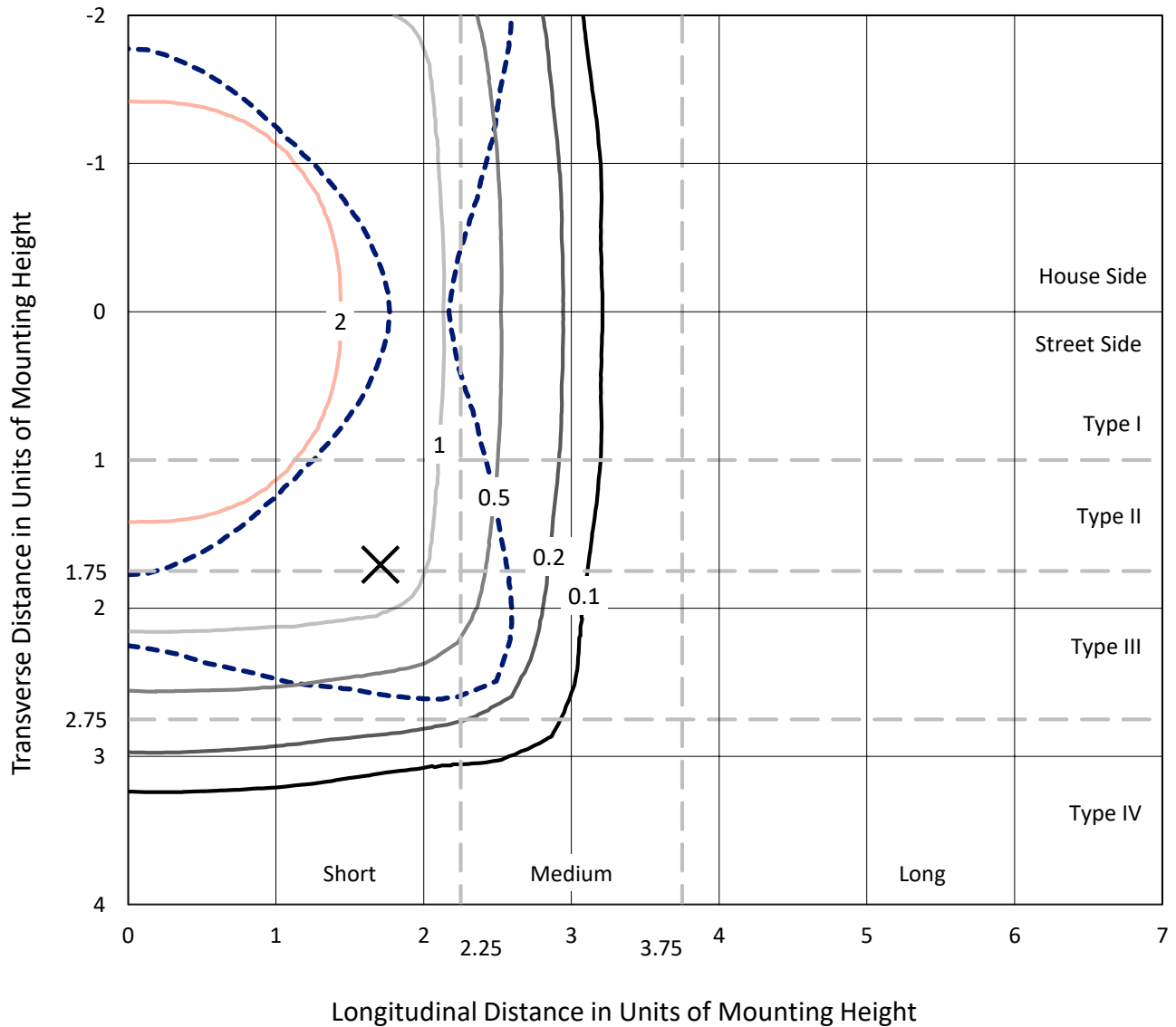


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Iso-Footcandle Lines of Horizontal Illumination

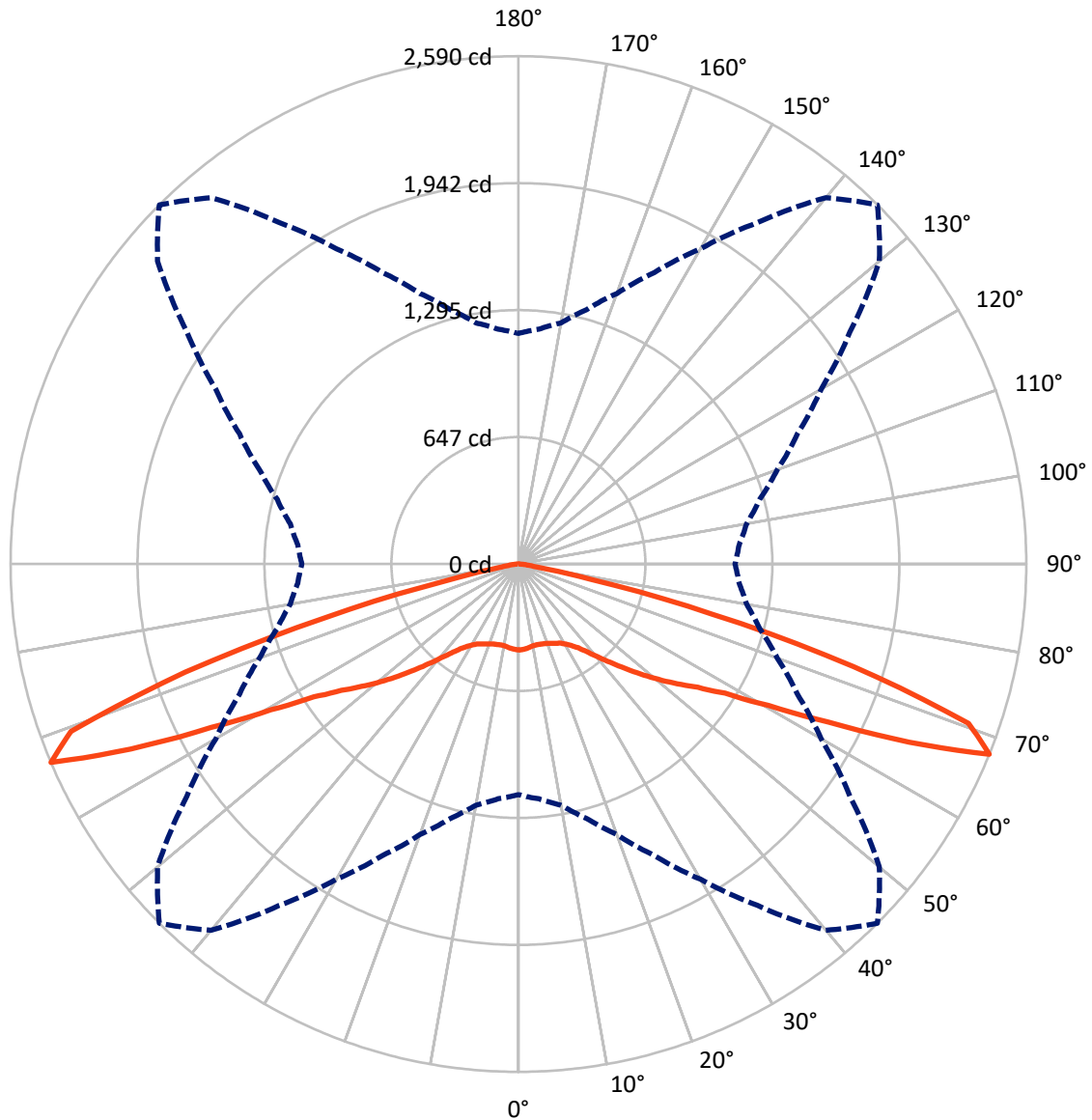
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2200.0	0.0	2200.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2200.0	0.0	2200.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4400.0	0.0	4400.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.0	0.9
10°-20°	119.1	2.7
20°-30°	202.5	4.6
30°-40°	330.9	7.5
40°-50°	590.8	13.4
50°-60°	996.1	22.6
60°-70°	1545.8	35.1
70°-80°	543.1	12.3
80°-90°	30.7	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°	4400.0	100.0
0°-180°	4400.0	100.0



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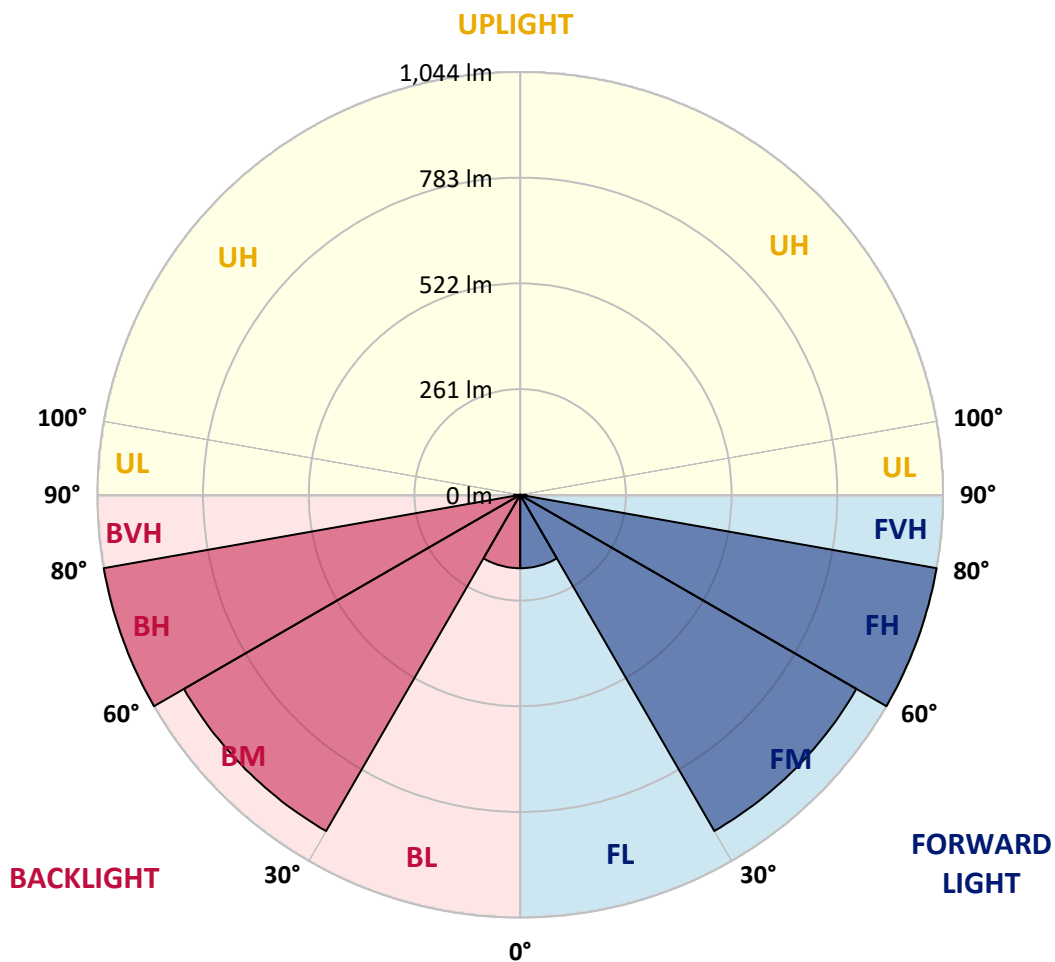
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	181.3	4.1			
FM	(30°-60°)	958.9	21.8			
FH	(60°-80°)	1044.5	23.7			G1/1800
FVH	(80°-90°)	15.3	0.3			G1/100
BL	(0°-30°)	181.3	4.1	B1/500		
BM	(30°-60°)	958.9	21.8	B1/1000		
BH	(60°-80°)	1044.5	23.7	B3/2500		G1/1800
BVH	(80°-90°)	15.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	438.5	438.5	438.5	438.5	438.5	438.5	438.5	438.5	438.5	438.5	438.5
2.5°	436.9	437.3	437.3	437.3	437.1	437.1	436.7	437.1	436.9	436.3	436.5
5°	433.2	433.6	433.6	433.4	434.0	433.8	433.2	433.6	433.4	433.0	433.2
7.5°	428.0	428.6	428.6	428.4	429.0	428.8	428.4	428.6	428.6	428.0	428.0
10°	422.1	422.5	422.5	422.3	423.3	423.3	423.1	423.7	423.9	423.3	422.9
12.5°	416.6	417.2	417.2	418.0	419.1	419.5	420.5	421.3	422.1	421.9	421.1
15°	413.4	413.8	414.6	415.6	417.2	418.6	420.3	422.1	423.7	424.1	422.9
17.5°	411.4	412.0	413.2	414.6	416.8	419.3	421.7	424.1	426.3	427.1	425.7
20°	410.8	411.2	412.4	414.8	417.8	421.5	424.9	427.8	430.8	431.8	430.8
22.5°	412.0	412.8	414.2	417.0	421.1	425.7	429.8	433.6	437.5	439.3	437.9
25°	417.4	418.2	420.1	423.7	428.2	433.0	437.7	442.1	445.6	447.4	446.4
27.5°	427.6	428.6	430.8	434.4	439.3	444.5	449.6	453.2	456.1	456.7	455.5
30°	442.7	445.0	447.6	451.6	457.3	461.7	466.8	470.0	473.5	473.5	472.5
32.5°	466.4	468.6	471.5	475.3	479.8	484.6	489.1	491.9	495.5	495.7	493.3
35°	501.8	502.8	505.3	507.7	511.7	516.0	519.8	521.6	524.7	524.9	522.7
37.5°	548.6	548.8	550.4	551.2	554.8	559.5	563.1	564.3	567.2	566.8	564.5
40°	603.0	604.0	604.6	605.8	609.7	614.1	618.0	618.6	621.6	621.0	618.2
42.5°	665.9	666.3	669.8	671.6	675.2	677.4	682.3	682.9	686.6	684.9	681.7
45°	736.5	740.2	743.4	747.1	750.9	753.5	757.4	756.6	759.0	756.6	754.7
47.5°	810.8	813.4	820.7	826.4	832.6	834.9	840.3	837.9	840.3	836.9	836.3
50°	892.5	897.2	903.5	909.9	916.6	920.3	927.3	924.3	927.5	924.3	922.5
52.5°	973.1	974.3	988.0	997.6	1006.9	1011.1	1015.4	1013.9	1014.1	1013.9	1012.1
55°	1049.6	1052.4	1066.1	1079.1	1095.3	1107.2	1114.5	1113.7	1111.9	1110.1	1107.0
57.5°	1135.8	1138.6	1154.4	1170.4	1188.8	1205.8	1220.5	1235.7	1241.6	1243.2	1236.5
60°	1252.3	1252.1	1273.1	1292.6	1318.9	1344.2	1376.5	1409.5	1447.4	1465.0	1441.7
62.5°	1370.9	1375.7	1406.1	1440.5	1494.7	1547.5	1607.2	1665.9	1725.8	1774.6	1722.8
65°	1356.7	1375.3	1420.5	1498.4	1598.5	1717.5	1846.2	1982.4	2105.4	2190.0	2095.1
67.5°	1175.8	1202.3	1248.3	1343.0	1468.2	1639.8	1855.9	2125.2	2438.2	2589.6	2402.0
70°	852.3	882.2	930.4	1022.8	1146.9	1310.0	1544.7	1868.0	2282.4	2435.0	2228.4
72.5°	424.1	440.3	470.0	528.9	622.8	755.1	968.0	1278.8	1645.5	1785.5	1596.7
75°	144.1	151.6	156.6	175.8	205.6	257.6	363.4	559.1	852.9	1022.4	840.7
77.5°	83.2	83.4	86.8	90.2	95.3	101.0	115.1	151.2	261.4	371.3	270.5
80°	53.8	53.6	56.5	59.1	62.5	65.4	66.2	70.0	80.7	95.7	85.6
82.5°	27.9	31.4	37.6	41.1	47.6	48.8	47.1	45.7	48.4	50.2	51.4
85°	15.4	13.4	20.0	25.9	28.7	29.1	29.1	27.5	28.5	27.9	30.4
87.5°	7.1	6.5	7.9	12.7	13.6	11.5	12.1	10.7	7.7	7.5	8.5
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°	438.5	438.5	438.5	438.5	438.5	438.5	438.5	438.5
2.5°	436.5	436.7	436.7	437.3	437.5	437.9	438.3	438.5
5°	433.0	433.6	433.2	433.8	433.8	434.2	434.2	434.4
7.5°	428.0	428.6	428.6	428.6	428.4	429.0	429.0	429.0
10°	422.7	423.1	422.9	422.5	422.1	422.7	422.5	422.3
12.5°	421.1	420.1	419.3	418.9	418.0	418.2	417.6	417.6
15°	422.1	420.3	418.9	418.2	417.4	417.0	416.6	416.8
17.5°	424.7	422.5	420.7	419.7	418.6	418.0	417.2	417.4
20°	429.4	426.7	424.1	422.1	420.3	419.3	418.6	418.4
22.5°	436.3	432.4	428.6	425.5	423.1	421.7	421.1	420.7
25°	444.1	439.9	435.4	432.0	429.6	427.8	426.5	426.5
27.5°	454.1	450.6	446.6	442.5	440.3	438.5	437.7	437.3
30°	470.7	467.4	464.2	460.3	457.5	455.7	454.3	453.0
32.5°	491.9	489.3	486.6	483.8	481.2	478.7	476.5	475.5
35°	521.8	519.8	518.0	514.8	513.8	512.3	511.1	510.1
37.5°	563.1	562.3	562.3	558.9	558.1	557.5	556.2	556.4
40°	617.4	618.2	617.1	615.9	615.3	613.7	613.7	615.1
42.5°	681.5	682.1	684.3	682.3	684.5	682.5	681.3	682.3
45°	756.0	758.2	762.6	760.6	762.0	758.6	754.3	754.5
47.5°	839.5	841.5	843.4	842.0	842.2	836.5	830.8	829.4
50°	926.3	927.1	928.2	926.1	926.5	920.3	913.8	914.0
52.5°	1012.1	1016.0	1020.0	1014.6	1013.3	1006.3	997.1	993.5
55°	1110.3	1115.7	1111.1	1101.6	1092.0	1082.5	1070.6	1068.6
57.5°	1231.3	1222.0	1207.4	1189.4	1176.2	1162.9	1150.7	1145.7
60°	1399.6	1364.6	1338.3	1311.6	1294.8	1278.4	1262.4	1260.0
62.5°	1637.6	1577.1	1524.7	1469.4	1424.3	1389.1	1361.0	1353.1
65°	1935.8	1792.8	1668.7	1553.0	1452.4	1376.5	1328.8	1307.7
67.5°	2064.1	1781.6	1569.0	1404.7	1273.1	1181.3	1129.7	1104.0
70°	1813.8	1477.5	1246.2	1081.7	961.9	864.0	817.3	789.7
72.5°	1247.9	939.9	743.2	606.6	510.9	429.0	396.6	394.2
75°	560.3	371.1	255.8	197.1	165.9	144.3	137.6	132.5
77.5°	156.8	115.9	103.4	96.7	90.2	82.8	79.9	80.5
80°	76.3	72.0	69.2	65.0	59.1	52.8	50.0	51.2
82.5°	50.6	50.0	51.8	48.8	40.3	34.2	28.7	26.3
85°	30.8	31.2	31.8	32.0	27.1	19.0	12.9	14.6
87.5°	12.1	14.0	15.2	15.8	14.8	9.1	7.3	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)