

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: P199917

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199917
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: GWC-AF-01-LED-E1-5WQ-7030-800
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5232.4 lumens
Efficiency: N/A
Efficacy: 118.9 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

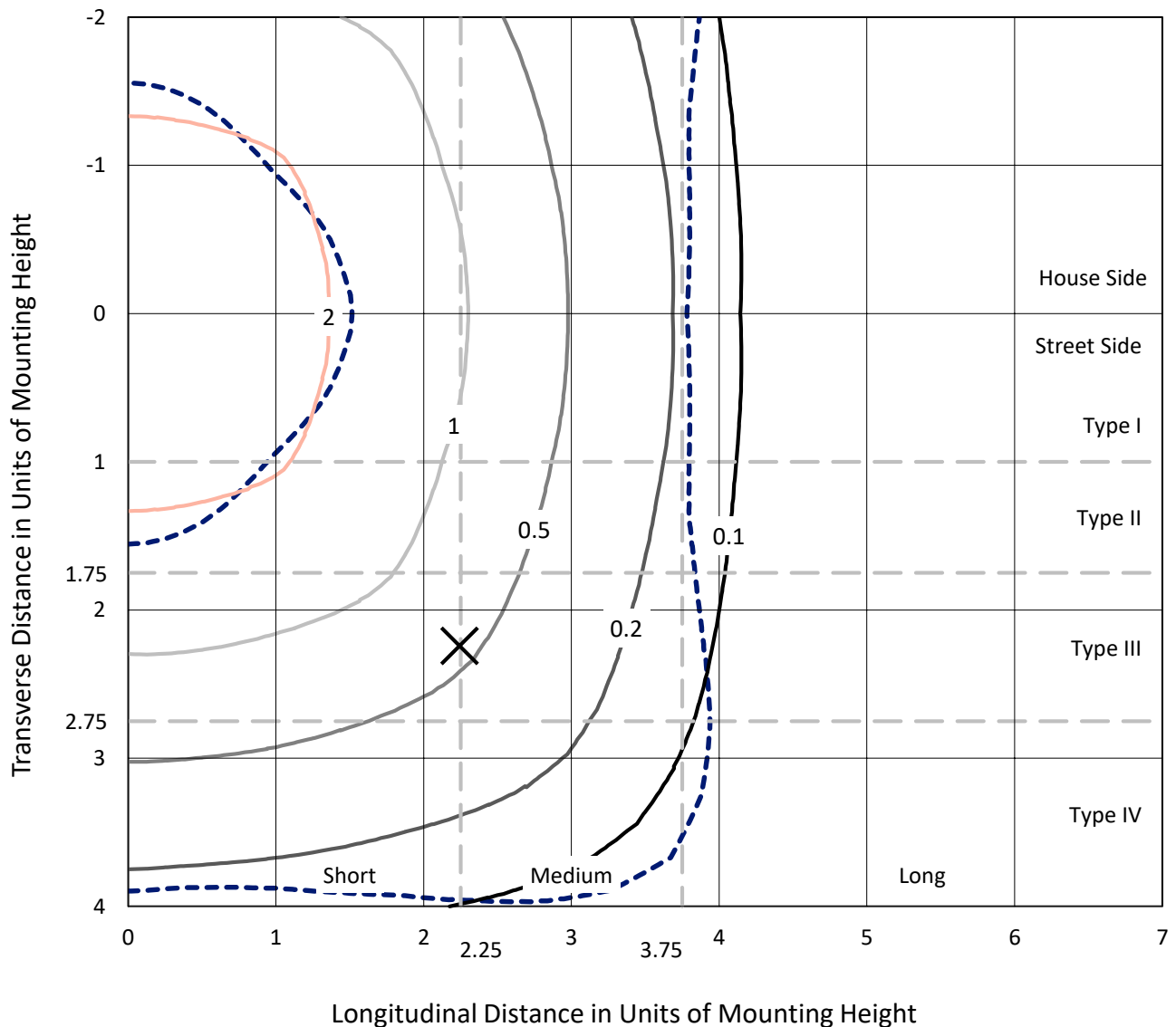
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

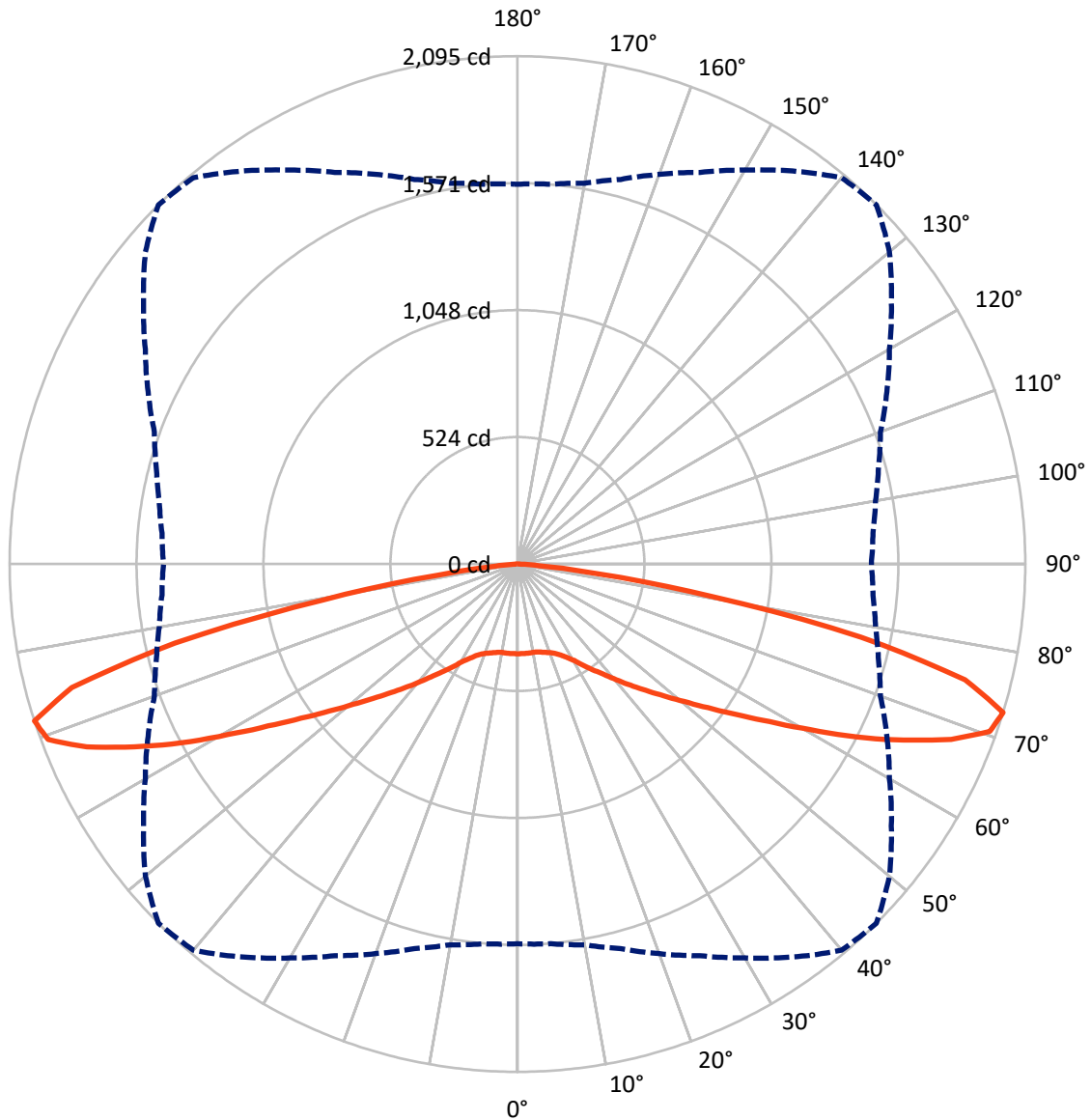


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - Semi-Cutoff

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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
House Side	Lumens	2616.2	0.0	2616.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2616.2	0.0	2616.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	5232.4	0.0	5232.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.4	0.7
10°-20°	107.5	2.1
20°-30°	196.4	3.8
30°-40°	338.6	6.5
40°-50°	578.8	11.1
50°-60°	938.2	17.9
60°-70°	1556.4	29.7
70°-80°	1370.8	26.2
80°-90°	110.5	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°	5232.4	100.0
0°-180°	5232.4	100.0



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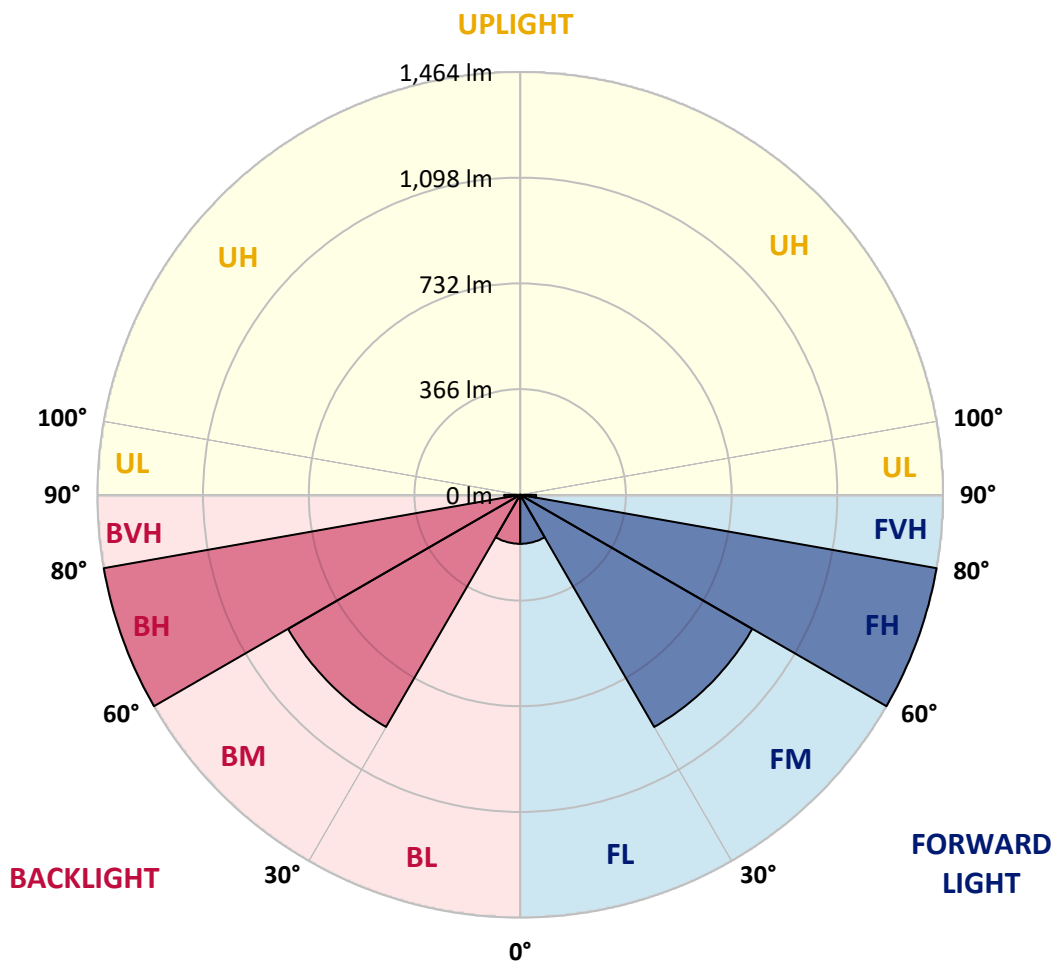
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	169.6	3.2			
FM (30°-60°)	927.8	17.7			
FH (60°-80°)	1463.6	28.0			G1/1800
FVH (80°-90°)	55.3	1.1			G1/100
BL (0°-30°)	169.6	3.2	B1/500		
BM (30°-60°)	927.8	17.7	B1/1000		
BH (60°-80°)	1463.6	28.0	B3/2500		G1/1800
BVH (80°-90°)	55.3	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°	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5
2.5°	370.5	370.8	371.1	370.8	370.8	370.5	370.3	370.5	370.3	369.9	370.1
5°	371.7	372.2	372.2	371.7	372.0	371.7	371.3	371.5	371.1	370.3	370.3
7.5°	373.2	373.4	373.4	372.9	373.2	372.7	372.2	372.0	371.5	370.5	369.9
10°	375.3	375.6	375.3	374.9	374.9	374.1	372.9	372.5	371.5	370.1	369.3
12.5°	377.7	377.9	377.7	377.3	377.1	375.9	374.9	374.1	373.4	372.2	371.1
15°	381.1	381.6	381.1	380.1	379.4	378.5	377.9	378.2	378.5	377.5	376.3
17.5°	387.4	387.6	386.9	384.7	383.7	382.7	382.7	383.3	383.9	383.5	382.3
20°	398.9	398.1	396.5	393.8	392.6	390.9	390.7	390.9	390.9	390.7	389.7
22.5°	413.2	412.8	410.6	407.2	405.6	404.6	403.1	402.0	401.7	401.0	400.1
25°	430.5	430.3	427.6	424.8	423.6	422.4	421.2	419.4	418.0	416.4	415.4
27.5°	452.7	451.7	447.9	446.4	444.6	443.9	442.3	440.5	439.2	437.0	435.8
30°	476.8	476.8	473.7	473.2	473.2	471.6	469.6	466.3	464.2	461.9	461.3
32.5°	501.1	501.3	498.2	499.2	499.9	501.1	501.6	500.4	498.9	498.7	497.2
35°	536.1	535.2	532.1	532.7	532.5	532.3	532.3	535.0	535.4	535.9	532.9
37.5°	579.5	579.5	576.5	576.5	575.0	573.6	571.7	573.3	576.1	576.7	574.8
40°	629.3	631.0	627.0	626.8	627.3	622.8	620.6	623.3	625.0	627.8	625.6
42.5°	687.8	686.5	682.8	682.4	679.6	678.2	676.4	678.4	681.1	683.0	683.8
45°	743.9	743.0	738.7	738.7	736.1	734.9	735.8	739.3	740.6	743.2	745.9
47.5°	799.3	798.1	795.3	796.5	796.7	798.9	802.1	805.4	808.7	812.4	813.6
50°	856.0	856.3	853.1	856.0	859.7	865.7	874.1	879.5	886.5	891.1	892.5
52.5°	907.6	908.6	912.0	918.7	925.9	937.7	951.9	965.5	977.0	984.7	984.2
55°	969.5	971.0	979.2	990.7	1002.5	1020.2	1041.6	1065.3	1084.5	1095.6	1088.5
57.5°	1048.8	1051.8	1061.0	1076.5	1094.1	1117.1	1146.4	1182.1	1211.9	1226.8	1215.5
60°	1157.5	1159.4	1170.3	1187.6	1208.9	1237.4	1276.4	1324.4	1366.5	1386.2	1373.2
62.5°	1300.7	1304.3	1313.2	1330.7	1352.3	1384.8	1432.5	1492.5	1544.8	1572.1	1542.8
65°	1471.8	1483.3	1490.8	1508.6	1528.7	1563.1	1613.0	1677.2	1733.4	1751.4	1717.5
67.5°	1641.3	1651.4	1664.3	1684.7	1705.1	1743.8	1790.0	1852.5	1914.1	1930.4	1877.8
70°	1715.4	1721.2	1741.4	1769.1	1808.2	1853.9	1907.4	1977.5	2053.7	2067.1	2000.5
72.5°	1566.9	1572.6	1595.1	1642.5	1710.6	1783.1	1876.4	1979.4	2080.2	2095.3	2003.4
75°	1185.0	1175.7	1209.1	1271.7	1363.5	1464.6	1595.1	1742.8	1888.4	1907.4	1797.8
77.5°	612.4	611.2	636.4	714.2	823.9	938.9	1082.5	1249.4	1392.0	1449.6	1360.3
80°	172.5	174.5	186.5	225.1	289.2	372.2	484.6	640.8	757.3	816.9	767.0
82.5°	67.6	72.9	77.5	84.6	93.1	105.3	140.6	209.2	280.8	335.5	274.8
85°	24.2	25.9	36.7	43.4	44.1	46.6	53.0	62.0	74.7	89.0	73.2
87.5°	9.1	10.1	11.8	19.4	19.2	17.5	21.3	22.3	16.8	15.4	19.0
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°	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5
2.5°	369.7	369.9	369.9	370.1	370.3	370.3	370.8	370.8
5°	369.9	369.9	369.3	369.7	369.3	369.3	369.7	369.7
7.5°	369.3	369.1	368.6	368.4	367.8	367.8	367.8	367.8
10°	368.6	368.4	367.8	367.6	367.4	367.4	367.4	367.4
12.5°	370.5	369.9	369.3	369.1	369.1	369.1	369.1	369.1
15°	375.6	373.8	372.7	372.7	372.9	373.4	373.4	373.8
17.5°	381.9	379.9	378.7	377.7	378.2	378.9	379.4	379.9
20°	389.3	388.3	386.7	385.6	385.6	386.7	387.1	387.4
22.5°	399.6	398.9	398.1	396.9	396.9	397.3	398.4	398.4
25°	414.9	414.4	414.0	413.0	412.8	412.8	413.2	413.8
27.5°	434.1	434.5	433.9	433.6	432.8	432.6	433.4	433.2
30°	459.8	461.0	462.1	461.3	460.1	459.3	458.6	457.7
32.5°	494.6	493.2	492.2	490.6	488.4	486.4	485.0	483.4
35°	527.5	525.1	524.1	525.5	525.3	524.1	522.5	521.0
37.5°	567.8	567.3	567.8	570.5	570.0	571.2	567.8	567.6
40°	618.7	619.2	622.6	625.6	627.3	629.0	627.0	625.2
42.5°	677.7	677.5	678.7	683.0	685.9	687.8	683.8	683.2
45°	740.1	738.5	739.3	743.0	745.9	748.0	743.5	743.5
47.5°	808.7	805.9	802.7	806.9	808.5	809.9	806.4	805.1
50°	885.3	879.3	872.6	874.3	874.3	873.7	869.2	868.9
52.5°	973.2	962.1	949.9	945.3	942.7	939.7	931.9	928.0
55°	1074.1	1057.6	1038.4	1026.7	1020.4	1012.5	999.2	995.7
57.5°	1192.2	1166.4	1133.2	1118.9	1104.9	1091.9	1077.3	1073.3
60°	1332.2	1293.9	1250.0	1223.4	1208.3	1195.9	1180.8	1180.0
62.5°	1488.1	1427.9	1378.2	1354.3	1343.3	1332.2	1317.7	1319.7
65°	1646.7	1583.9	1537.4	1517.9	1507.6	1498.5	1484.1	1486.3
67.5°	1803.3	1745.4	1694.3	1674.4	1662.8	1651.4	1638.4	1640.5
70°	1915.6	1843.9	1786.2	1742.0	1714.5	1683.2	1663.2	1658.0
72.5°	1883.4	1772.7	1681.3	1593.8	1542.4	1500.6	1472.3	1460.0
75°	1629.9	1478.9	1361.2	1253.6	1193.2	1144.1	1108.2	1085.9
77.5°	1210.5	1040.5	901.6	777.8	679.9	614.1	567.8	537.8
80°	662.5	504.0	368.4	259.0	190.3	158.1	139.7	130.8
82.5°	206.4	133.2	98.2	84.6	78.6	75.4	69.8	60.9
85°	65.8	57.6	53.5	51.2	48.7	42.5	29.3	26.7
87.5°	25.4	26.1	25.9	24.5	24.9	18.0	14.4	12.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)