

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: P270147

Luminaire Tested: **GWC-AF-01-LED-E1-5WQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270147
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-7027-800
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 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: 4700.3 lumens
Efficiency: N/A
Efficacy: 106.8 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

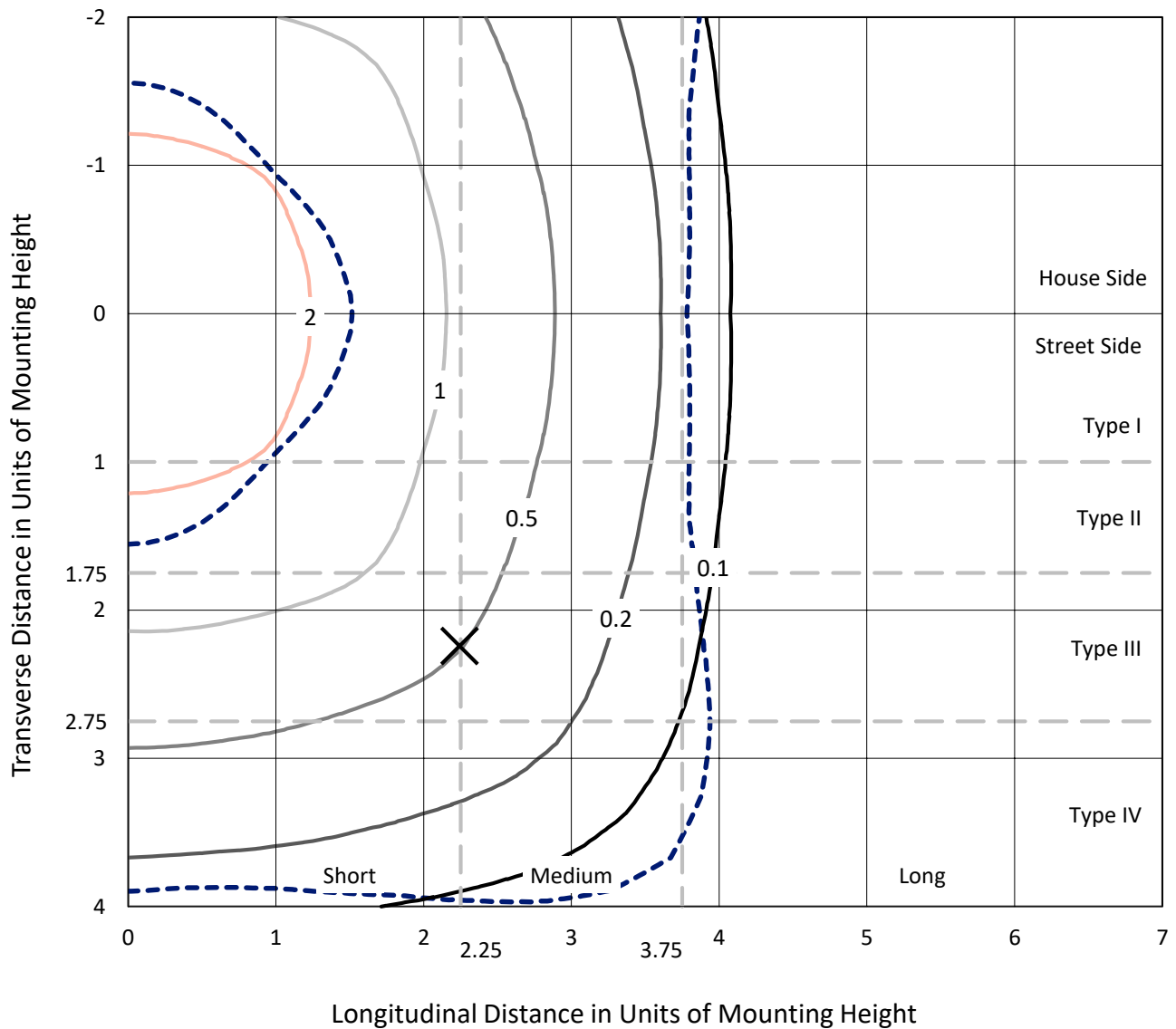


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Iso-Footcandle Lines of Horizontal Illumination

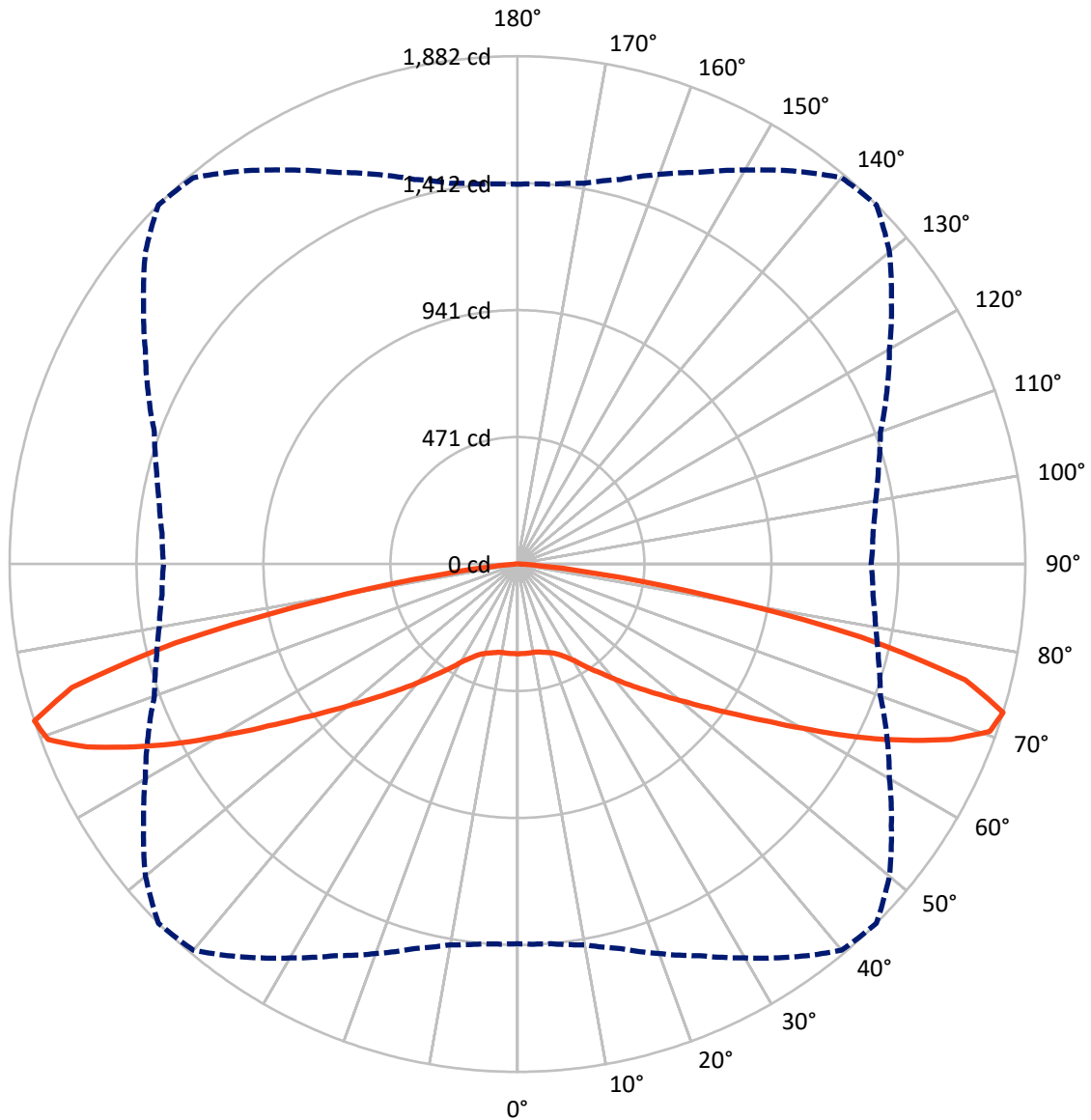
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 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	2350.2	0.0	2350.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2350.2	0.0	2350.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	4700.3	0.0	4700.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.8	0.7
10°-20°	96.5	2.1
20°-30°	176.4	3.8
30°-40°	304.2	6.5
40°-50°	519.9	11.1
50°-60°	842.8	17.9
60°-70°	1398.1	29.7
70°-80°	1231.4	26.2
80°-90°	99.3	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°	4700.3	100.0
0°-180°	4700.3	100.0



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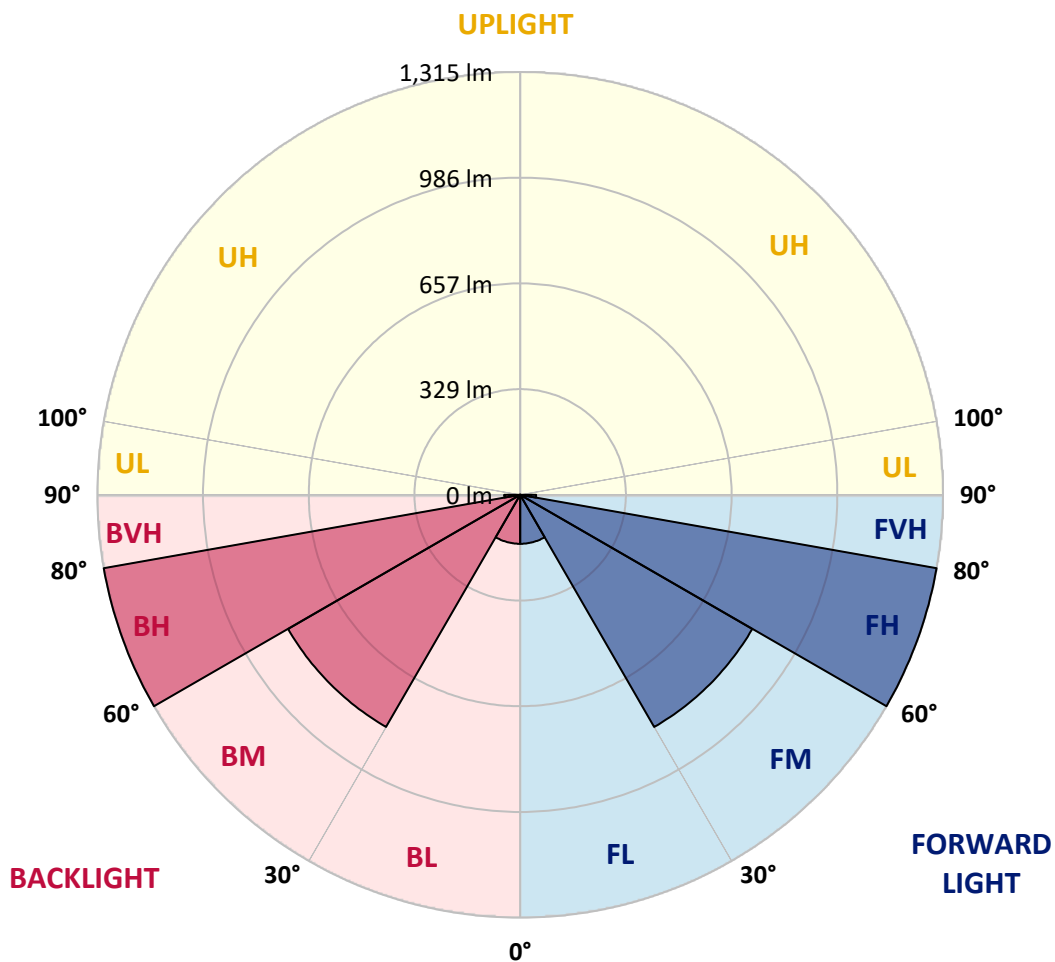
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	152.4	3.2			
FM (30°-60°)	833.4	17.7			
FH (60°-80°)	1314.7	28.0			G1/1800
FVH (80°-90°)	49.6	1.1			G1/100
BL (0°-30°)	152.4	3.2	B1/500		
BM (30°-60°)	833.4	17.7	B1/1000		
BH (60°-80°)	1314.7	28.0	B3/2500		G1/1800
BVH (80°-90°)	49.6	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°	332.8	332.8	332.8	332.8	332.8	332.8	332.8	332.8	332.8	332.8	332.8
2.5°	332.8	333.1	333.4	333.1	333.1	332.8	332.6	332.8	332.6	332.3	332.5
5°	333.9	334.3	334.3	333.9	334.2	333.9	333.5	333.7	333.4	332.6	332.6
7.5°	335.2	335.4	335.4	335.0	335.2	334.8	334.3	334.2	333.7	332.8	332.3
10°	337.1	337.4	337.1	336.8	336.8	336.1	335.0	334.6	333.7	332.5	331.7
12.5°	339.3	339.5	339.3	338.9	338.8	337.7	336.8	336.1	335.4	334.3	333.4
15°	342.3	342.8	342.3	341.4	340.8	340.0	339.5	339.7	340.0	339.1	338.0
17.5°	348.0	348.2	347.6	345.6	344.7	343.8	343.8	344.3	344.9	344.5	343.4
20°	358.3	357.6	356.2	353.8	352.7	351.1	351.0	351.1	351.1	351.0	350.1
22.5°	371.2	370.8	368.8	365.8	364.4	363.5	362.1	361.1	360.8	360.2	359.4
25°	386.7	386.5	384.1	381.6	380.5	379.4	378.4	376.7	375.5	374.1	373.2
27.5°	406.7	405.8	402.4	401.0	399.4	398.8	397.3	395.7	394.5	392.6	391.5
30°	428.3	428.3	425.5	425.1	425.1	423.6	421.8	418.9	417.0	414.9	414.4
32.5°	450.1	450.3	447.5	448.4	449.1	450.1	450.6	449.5	448.2	448.0	446.6
35°	481.6	480.8	478.0	478.5	478.3	478.2	478.2	480.6	481.0	481.4	478.7
37.5°	520.6	520.6	517.9	517.9	516.5	515.3	513.6	515.0	517.5	518.1	516.3
40°	565.3	566.8	563.2	563.1	563.5	559.5	557.5	559.9	561.4	564.0	562.0
42.5°	617.9	616.7	613.4	613.0	610.5	609.2	607.6	609.4	611.8	613.5	614.3
45°	668.2	667.4	663.6	663.6	661.2	660.2	661.0	664.1	665.3	667.6	670.0
47.5°	718.0	716.9	714.4	715.5	715.7	717.7	720.5	723.5	726.5	729.8	730.9
50°	768.9	769.2	766.3	768.9	772.3	777.7	785.2	790.1	796.3	800.5	801.7
52.5°	815.3	816.2	819.3	825.3	831.7	842.3	855.1	867.3	877.6	884.6	884.1
55°	870.9	872.3	879.6	890.0	900.6	916.5	935.7	957.0	974.2	984.2	977.8
57.5°	942.1	944.8	953.1	967.0	982.8	1003.5	1029.8	1061.9	1088.7	1102.0	1091.9
60°	1039.8	1041.5	1051.3	1066.8	1086.0	1111.6	1146.6	1189.7	1227.5	1245.2	1233.6
62.5°	1168.4	1171.7	1179.7	1195.4	1214.8	1244.0	1286.8	1340.7	1387.7	1412.2	1385.9
65°	1322.1	1332.5	1339.2	1355.2	1373.2	1404.1	1449.0	1506.6	1557.1	1573.3	1542.8
67.5°	1474.4	1483.5	1495.0	1513.4	1531.7	1566.5	1608.0	1664.1	1719.4	1734.1	1686.8
70°	1541.0	1546.2	1564.3	1589.2	1624.3	1665.4	1713.4	1776.4	1844.8	1856.9	1797.1
72.5°	1407.6	1412.7	1432.9	1475.5	1536.6	1601.8	1685.6	1778.1	1868.7	1882.2	1799.7
75°	1064.5	1056.1	1086.1	1142.4	1224.8	1315.7	1432.9	1565.6	1696.4	1713.4	1615.0
77.5°	550.1	549.0	571.7	641.6	740.1	843.4	972.4	1122.3	1250.4	1302.2	1222.0
80°	155.0	156.8	167.5	202.2	259.8	334.3	435.3	575.6	680.3	733.8	689.0
82.5°	60.7	65.5	69.6	76.0	83.6	94.6	126.3	187.9	252.2	301.4	246.9
85°	21.7	23.3	33.0	39.0	39.6	41.9	47.6	55.7	67.1	79.9	65.8
87.5°	8.2	9.1	10.6	17.4	17.2	15.7	19.1	20.0	15.1	13.8	17.1
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°	332.8	332.8	332.8	332.8	332.8	332.8	332.8	332.8
2.5°	332.1	332.3	332.3	332.5	332.6	332.6	333.1	333.1
5°	332.3	332.3	331.7	332.1	331.7	331.7	332.1	332.1
7.5°	331.7	331.6	331.1	330.9	330.4	330.4	330.4	330.4
10°	331.1	330.9	330.4	330.2	330.0	330.0	330.0	330.0
12.5°	332.8	332.3	331.7	331.6	331.6	331.6	331.6	331.6
15°	337.4	335.8	334.8	334.8	335.0	335.4	335.4	335.8
17.5°	343.1	341.3	340.2	339.3	339.7	340.4	340.8	341.3
20°	349.7	348.8	347.4	346.4	346.4	347.4	347.7	348.0
22.5°	359.0	358.3	357.6	356.5	356.5	356.9	357.9	357.9
25°	372.7	372.3	371.9	371.0	370.8	370.8	371.2	371.7
27.5°	390.0	390.3	389.8	389.5	388.8	388.6	389.3	389.1
30°	413.0	414.1	415.1	414.4	413.3	412.6	412.0	411.2
32.5°	444.3	443.0	442.1	440.7	438.7	436.9	435.7	434.2
35°	473.9	471.7	470.8	472.1	471.9	470.8	469.4	468.0
37.5°	510.1	509.6	510.1	512.5	512.0	513.1	510.1	509.9
40°	555.8	556.2	559.3	562.0	563.5	565.0	563.2	561.6
42.5°	608.8	608.6	609.7	613.5	616.1	617.9	614.3	613.7
45°	664.8	663.4	664.1	667.4	670.0	671.9	667.9	667.9
47.5°	726.5	723.9	721.1	724.8	726.3	727.5	724.4	723.2
50°	795.3	789.9	783.9	785.4	785.4	784.8	780.8	780.5
52.5°	874.2	864.3	853.3	849.2	846.8	844.1	837.1	833.6
55°	964.9	950.0	932.8	922.3	916.6	909.5	897.6	894.4
57.5°	1071.0	1047.8	1018.0	1005.1	992.5	980.9	967.7	964.2
60°	1196.7	1162.3	1122.9	1099.0	1085.4	1074.3	1060.7	1060.0
62.5°	1336.8	1282.7	1238.0	1216.6	1206.7	1196.7	1183.7	1185.5
65°	1479.2	1422.8	1381.1	1363.5	1354.3	1346.1	1333.2	1335.2
67.5°	1619.9	1567.9	1522.0	1504.1	1493.7	1483.5	1471.8	1473.7
70°	1720.8	1656.4	1604.6	1564.8	1540.1	1512.0	1494.1	1489.4
72.5°	1691.9	1592.4	1510.3	1431.7	1385.5	1348.0	1322.6	1311.5
75°	1464.1	1328.5	1222.8	1126.1	1071.9	1027.8	995.5	975.5
77.5°	1087.4	934.7	809.9	698.7	610.8	551.6	510.1	483.1
80°	595.1	452.7	330.9	232.7	170.9	142.0	125.5	117.5
82.5°	185.4	119.7	88.2	76.0	70.6	67.7	62.7	54.7
85°	59.1	51.7	48.1	46.0	43.7	38.2	26.3	24.0
87.5°	22.8	23.4	23.3	22.0	22.4	16.2	12.9	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)