

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: P199907

Luminaire Tested: **GWC-AF-01-LED-E1-5NQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-E1-5NQ-7030-600
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4179.1 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - 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

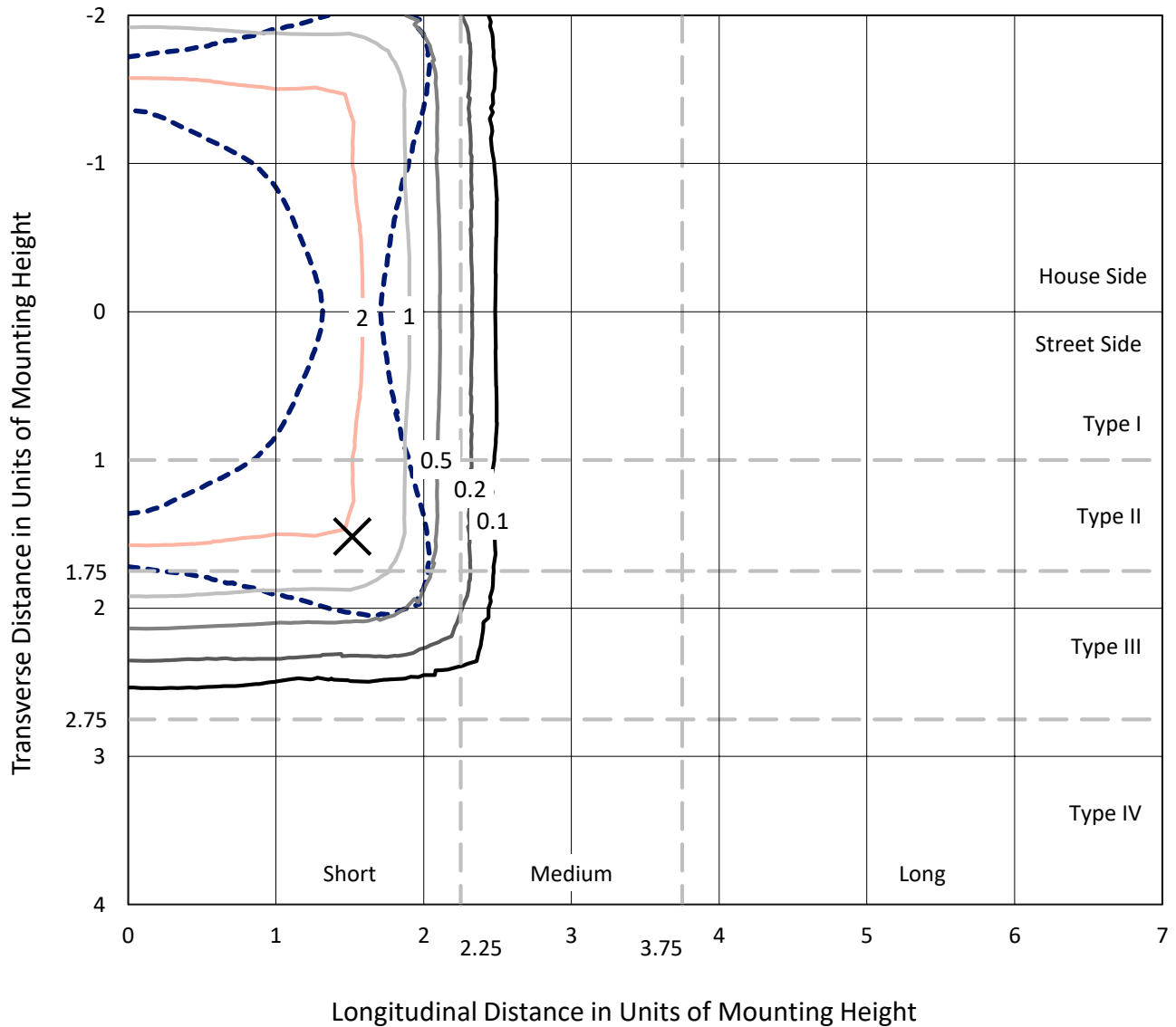


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Iso-Footcandle Lines of Horizontal Illumination

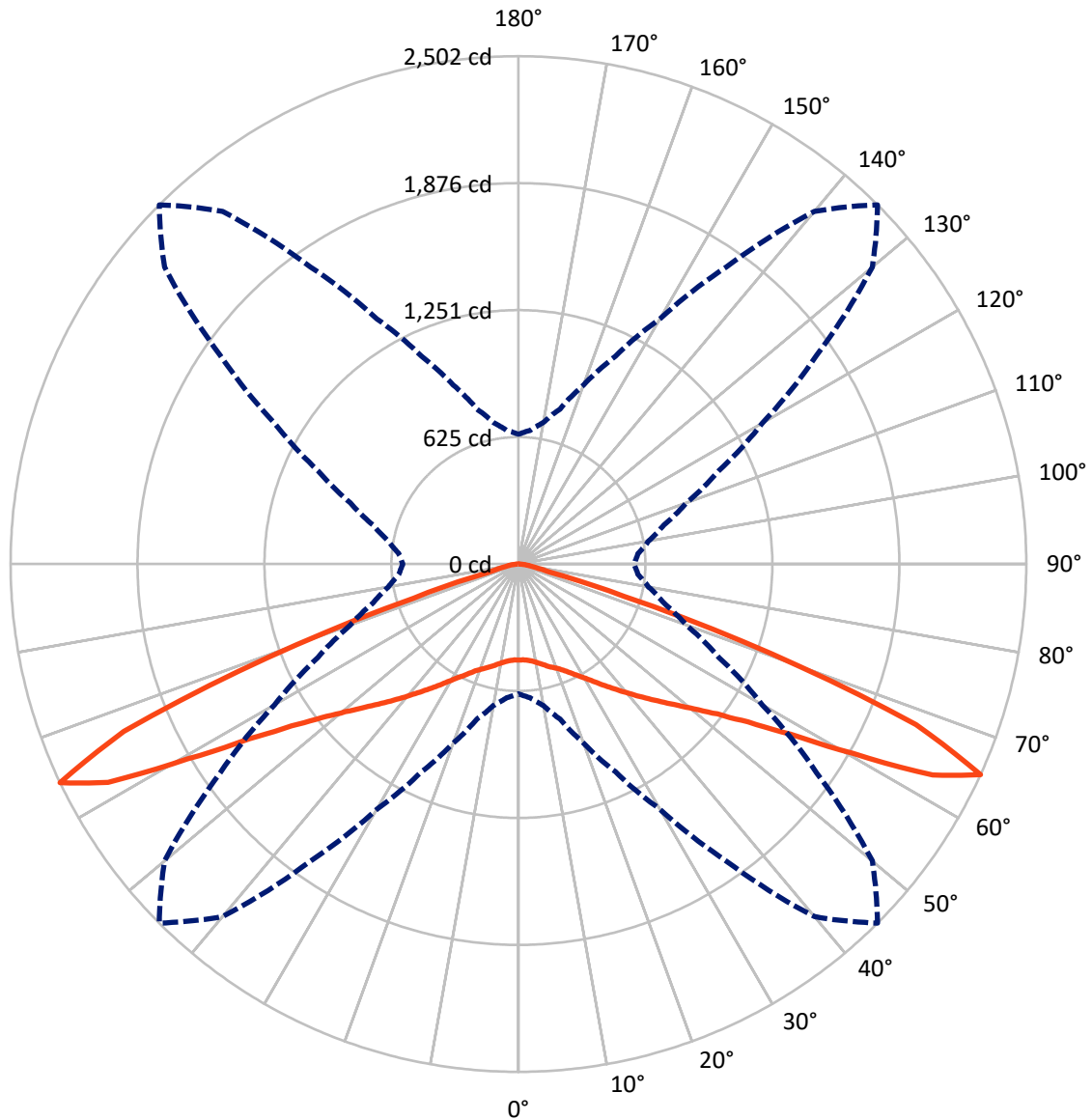
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2089.6	0.0	2089.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2089.6	0.0	2089.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	4179.1	0.0	4179.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	1.1
10°-20°	147.8	3.5
20°-30°	276.4	6.6
30°-40°	467.5	11.2
40°-50°	764.3	18.3
50°-60°	1215.4	29.1
60°-70°	1098.7	26.3
70°-80°	139.0	3.3
80°-90°	23.9	0.6
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°	4179.1	100.0
0°-180°	4179.1	100.0



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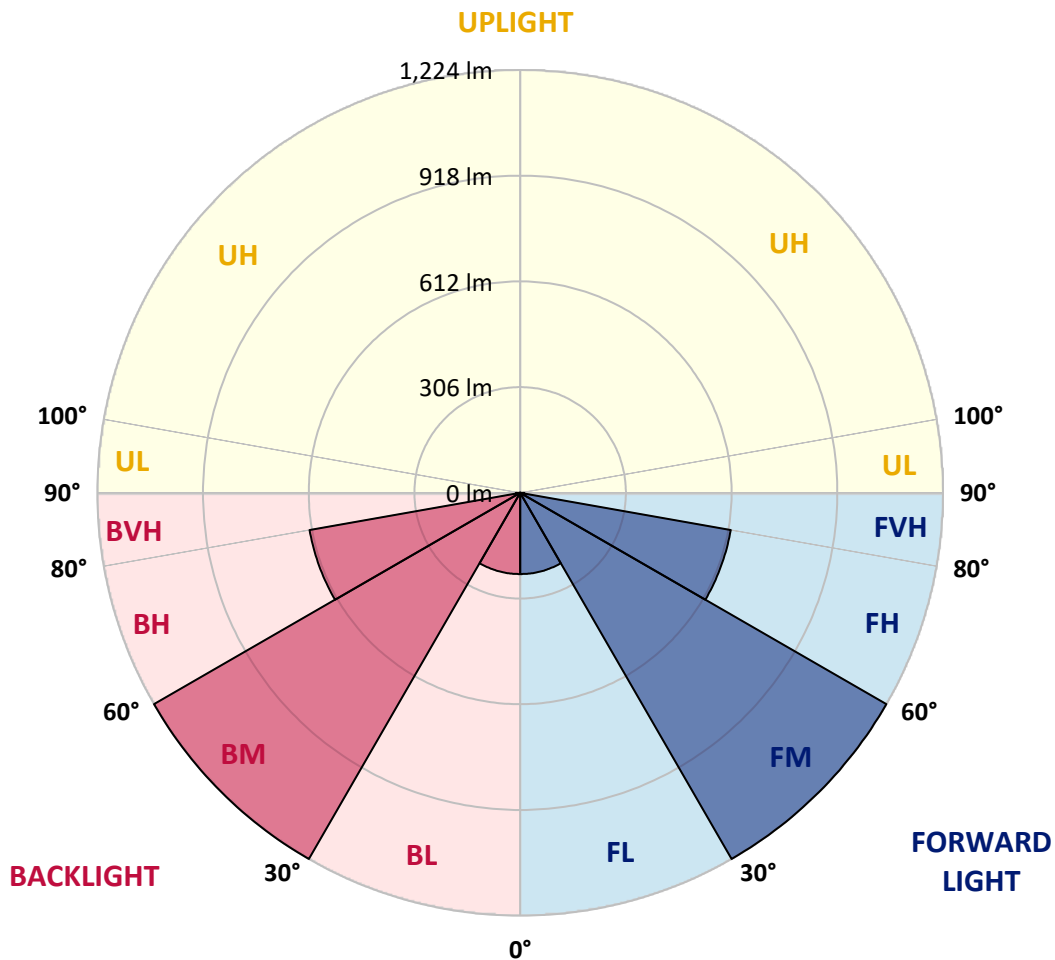
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	235.2	5.6			
FM	(30°-60°)	1223.6	29.3			
FH	(60°-80°)	618.8	14.8			G0/660
FVH	(80°-90°)	12.0	0.3			G1/100
BL	(0°-30°)	235.2	5.6	B1/500		
BM	(30°-60°)	1223.6	29.3	B2/2500		
BH	(60°-80°)	618.8	14.8	B2/1000		G0/660
BVH	(80°-90°)	12.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9
2.5°	473.3	473.6	474.0	473.6	474.0	473.4	473.1	473.6	473.1	472.4	472.9
5°	477.4	477.6	477.6	477.0	477.6	477.1	476.6	477.4	476.8	476.2	476.6
7.5°	484.2	485.0	484.4	483.8	484.2	483.8	483.5	483.7	483.5	482.8	483.0
10°	493.5	494.0	493.7	493.5	493.9	493.7	493.2	493.1	493.2	492.6	492.6
12.5°	504.6	504.3	504.2	504.3	505.0	505.0	504.8	505.0	505.4	505.6	505.3
15°	515.6	515.9	515.9	515.9	517.2	518.1	518.7	519.1	519.8	520.1	519.3
17.5°	529.3	529.3	529.1	529.3	530.5	532.0	532.5	533.4	534.2	534.8	533.7
20°	544.5	544.8	544.8	545.3	546.9	548.6	548.6	549.0	548.6	549.0	548.4
22.5°	563.1	564.4	564.4	564.5	566.1	568.1	567.6	568.1	567.2	568.0	567.2
25°	587.4	589.1	588.8	588.8	589.9	591.3	591.5	592.6	592.5	593.5	592.8
27.5°	614.8	617.6	618.3	618.1	618.9	620.3	620.7	622.0	621.2	622.0	621.5
30°	647.7	648.8	650.4	650.9	651.9	653.4	653.4	653.5	652.6	653.7	654.4
32.5°	681.7	683.9	685.4	689.0	690.7	691.7	691.5	691.9	690.9	692.4	693.7
35°	726.7	728.3	730.8	733.5	736.0	735.8	735.1	735.4	735.4	736.7	737.9
37.5°	780.9	781.3	784.7	788.7	789.7	788.7	785.0	784.3	782.6	784.3	786.2
40°	838.3	839.6	846.3	848.8	849.5	847.3	842.2	839.2	835.4	837.5	840.2
42.5°	898.3	901.2	907.2	911.7	913.6	912.4	905.2	900.8	895.6	896.8	899.5
45°	965.0	968.2	976.9	981.1	984.9	982.8	975.9	969.0	961.1	961.6	966.0
47.5°	1039.3	1042.7	1053.8	1061.0	1063.0	1062.5	1055.0	1045.6	1034.5	1034.2	1038.0
50°	1122.6	1126.0	1139.9	1151.0	1156.7	1156.2	1147.1	1133.9	1120.6	1120.8	1125.5
52.5°	1204.1	1208.2	1222.7	1241.8	1253.1	1261.1	1255.6	1243.1	1226.8	1227.2	1231.5
55°	1280.4	1287.3	1303.9	1330.0	1350.7	1373.2	1379.7	1379.3	1369.4	1372.2	1376.5
57.5°	1317.4	1327.6	1353.2	1394.3	1436.6	1482.4	1521.2	1550.2	1562.5	1581.1	1576.7
60°	1247.4	1263.6	1301.4	1361.9	1445.4	1541.0	1643.4	1743.3	1828.7	1893.0	1856.1
62.5°	1021.2	1042.5	1088.2	1165.8	1292.2	1445.1	1641.0	1877.4	2135.0	2290.4	2179.4
65°	639.0	661.0	707.6	790.5	938.5	1128.5	1394.3	1786.2	2267.4	2501.8	2275.9
67.5°	249.1	261.1	286.4	339.4	450.5	619.7	886.4	1331.1	1906.8	2112.1	1871.4
70°	124.9	126.0	130.8	140.5	164.4	213.5	324.9	617.1	1093.5	1320.7	1054.2
72.5°	90.2	90.4	92.8	97.1	104.7	115.7	136.8	188.9	355.6	543.6	333.3
75°	69.1	69.9	71.2	73.6	77.7	83.1	90.8	108.8	134.8	156.3	131.5
77.5°	53.2	54.8	55.8	57.9	60.5	64.3	66.3	73.2	85.1	89.6	88.3
80°	40.5	41.8	44.0	45.8	47.5	49.2	48.5	51.7	57.9	61.6	59.6
82.5°	25.7	27.5	33.7	35.2	36.0	37.1	35.8	36.0	38.8	41.1	38.8
85°	16.6	17.6	21.3	23.3	23.5	24.2	23.7	22.3	22.3	20.3	23.0
87.5°	7.6	7.8	9.7	11.4	11.7	10.6	10.4	10.0	7.9	7.6	8.2
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°	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9
2.5°	472.6	473.1	473.3	473.8	474.0	474.0	474.3	474.6
5°	476.4	477.0	477.1	478.0	478.1	478.0	478.3	478.5
7.5°	483.0	484.0	484.4	485.2	484.6	485.4	485.5	485.5
10°	492.9	493.9	494.0	494.8	494.4	494.8	494.8	494.4
12.5°	505.8	506.0	505.4	506.0	505.3	505.6	505.0	504.6
15°	520.1	519.4	518.1	518.1	516.9	517.2	516.9	516.7
17.5°	533.9	532.7	531.8	531.4	530.5	530.2	529.7	529.7
20°	549.2	548.6	548.1	547.3	546.3	545.3	545.1	545.5
22.5°	567.6	567.4	567.4	567.0	565.6	564.7	564.1	564.1
25°	592.3	590.5	590.5	590.3	589.7	589.1	588.0	588.6
27.5°	620.0	619.1	619.8	619.7	619.1	619.1	618.3	618.3
30°	654.4	653.9	655.1	654.1	652.2	651.9	651.1	650.2
32.5°	693.8	693.5	695.2	694.1	690.9	689.1	687.6	686.8
35°	737.9	738.0	740.2	739.4	736.0	734.8	732.0	731.6
37.5°	786.0	789.2	792.9	793.7	790.7	790.0	787.0	785.5
40°	842.6	846.8	852.4	853.8	850.6	850.0	845.8	843.8
42.5°	902.9	909.9	917.0	918.1	915.0	911.9	908.0	906.5
45°	970.2	978.6	987.8	990.2	985.5	981.8	976.7	976.7
47.5°	1045.7	1056.3	1066.7	1073.2	1068.9	1065.0	1058.8	1055.0
50°	1134.9	1149.5	1162.9	1169.6	1162.8	1155.4	1144.8	1141.3
52.5°	1246.9	1262.6	1274.4	1270.9	1260.3	1249.9	1238.4	1233.6
55°	1389.9	1395.1	1395.1	1381.8	1360.8	1343.3	1325.1	1319.0
57.5°	1568.5	1548.2	1516.8	1477.1	1427.3	1383.8	1354.4	1340.5
60°	1778.5	1680.7	1570.2	1461.5	1372.2	1298.6	1255.0	1235.0
62.5°	1918.5	1662.5	1440.9	1266.6	1138.2	1049.4	989.3	965.8
65°	1793.1	1386.5	1089.8	881.1	741.3	650.9	591.3	569.4
67.5°	1313.3	868.8	580.2	415.9	304.8	243.1	218.6	208.4
70°	589.6	305.9	187.5	146.4	126.2	116.0	111.3	109.8
72.5°	177.8	128.6	108.3	97.9	89.8	84.7	81.1	80.7
75°	107.3	89.3	79.3	72.9	68.0	63.8	61.8	61.3
77.5°	75.0	65.5	60.8	56.4	52.5	49.2	47.5	46.2
80°	52.7	48.2	46.0	43.4	40.9	38.0	35.4	34.2
82.5°	35.2	34.2	34.2	32.7	30.5	27.8	22.7	21.6
85°	22.7	22.5	23.0	22.3	20.8	17.8	14.6	13.8
87.5°	10.6	10.8	11.9	11.7	11.4	9.4	7.4	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)