

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: P299879

Luminaire Tested: **GLNA-AF-01-LED-E1-5WQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299879
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: GLNA-AF-01-LED-E1-5WQ-7050-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5284.9 lumens
Efficiency: N/A
Efficacy: 120.1 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

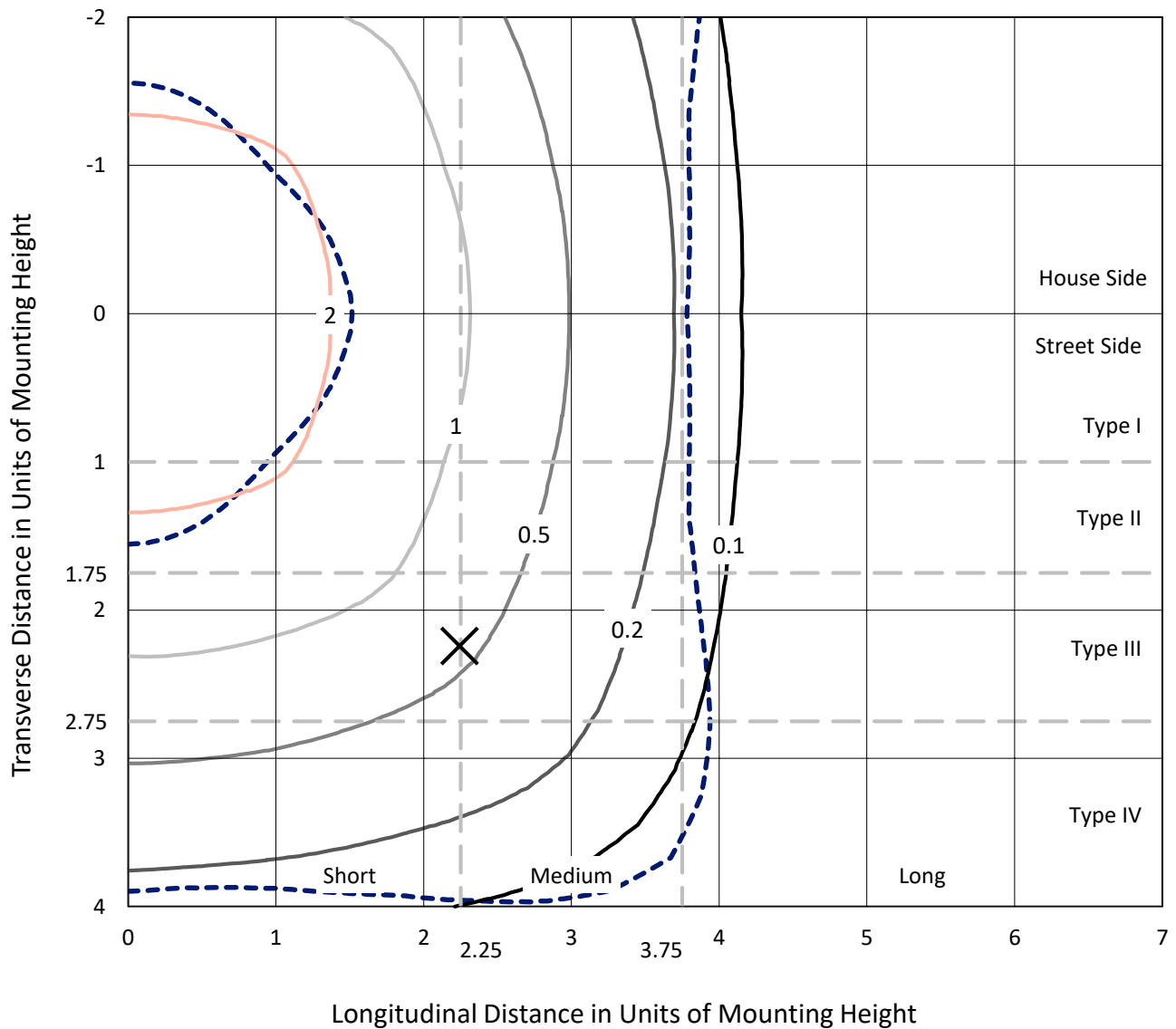


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

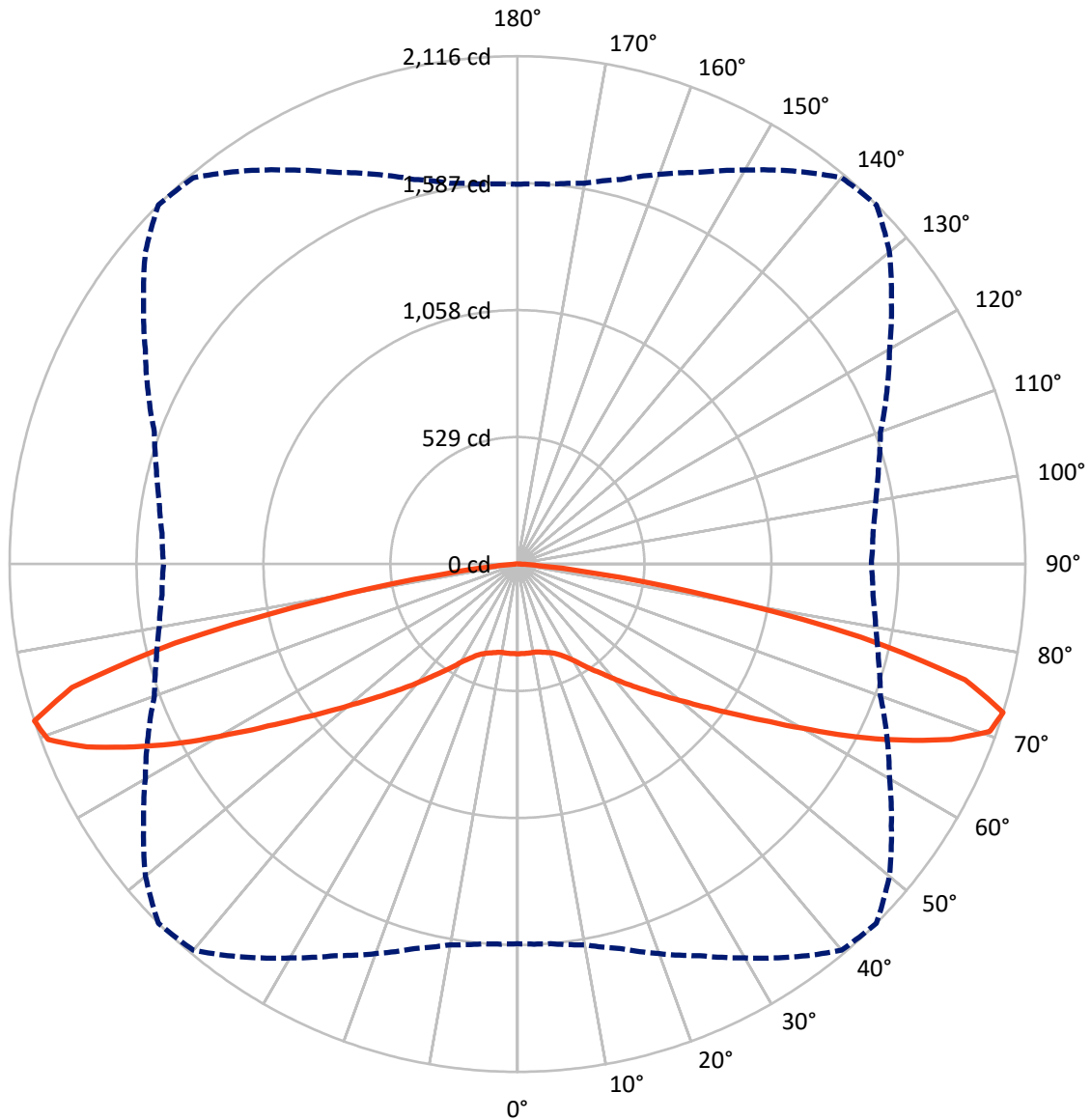


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - Semi-Cutoff

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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	2642.4	0.0	2642.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2642.4	0.0	2642.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	5284.9	0.0	5284.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.7	0.7
10°-20°	108.5	2.1
20°-30°	198.3	3.8
30°-40°	342.0	6.5
40°-50°	584.6	11.1
50°-60°	947.6	17.9
60°-70°	1572.0	29.7
70°-80°	1384.5	26.2
80°-90°	111.6	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°	5284.9	100.0
0°-180°	5284.9	100.0



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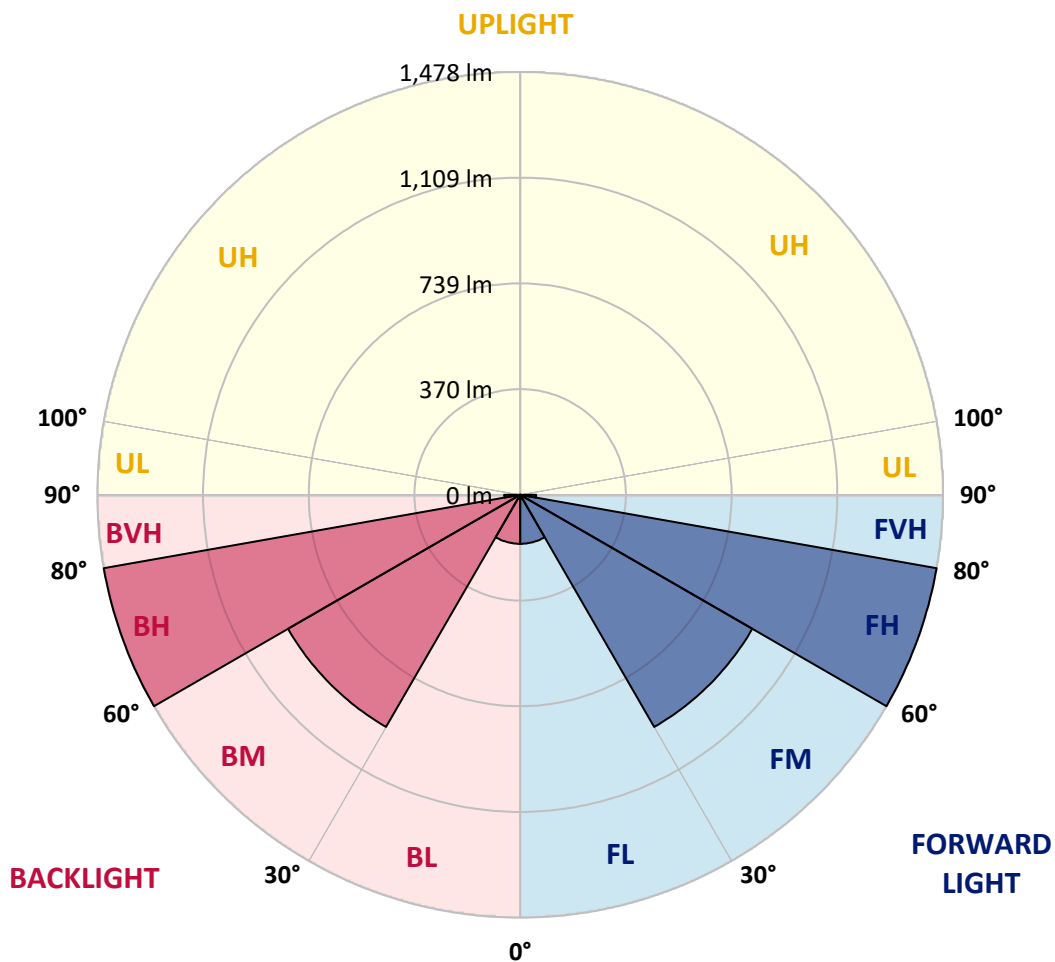
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	171.3	3.2			
FM	(30°-60°)	937.1	17.7			
FH	(60°-80°)	1478.3	28.0			G1/1800
FVH	(80°-90°)	55.8	1.1			G1/100
BL	(0°-30°)	171.3	3.2	B1/500		
BM	(30°-60°)	937.1	17.7	B1/1000		
BH	(60°-80°)	1478.3	28.0	B3/2500		G1/1800
BVH	(80°-90°)	55.8	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°	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3
2.5°	374.3	374.5	374.7	374.5	374.5	374.3	374.0	374.3	374.0	373.5	373.8
5°	375.5	375.9	375.9	375.5	375.7	375.5	375.0	375.2	374.7	374.0	374.0
7.5°	376.9	377.2	377.2	376.7	376.9	376.4	375.9	375.7	375.2	374.3	373.5
10°	379.1	379.3	379.1	378.6	378.6	377.9	376.7	376.2	375.2	373.8	373.0
12.5°	381.5	381.8	381.5	381.0	380.8	379.6	378.6	377.9	377.2	375.9	374.7
15°	384.9	385.4	384.9	383.9	383.2	382.3	381.8	382.0	382.3	381.3	380.1
17.5°	391.2	391.5	390.7	388.6	387.6	386.6	386.6	387.1	387.8	387.3	386.1
20°	402.9	402.1	400.4	397.8	396.6	394.9	394.6	394.9	394.9	394.6	393.6
22.5°	417.4	416.9	414.7	411.3	409.6	408.7	407.2	406.0	405.8	405.0	404.1
25°	434.9	434.6	431.9	429.0	427.8	426.6	425.4	423.7	422.2	420.5	419.6
27.5°	457.2	456.2	452.3	450.8	449.2	448.4	446.7	444.8	443.6	441.4	440.2
30°	481.6	481.6	478.5	478.0	478.0	476.3	474.4	471.0	468.8	466.6	465.9
32.5°	506.1	506.4	503.2	504.2	504.9	506.1	506.6	505.4	503.9	503.7	502.2
35°	541.5	540.5	537.4	538.1	537.9	537.6	537.6	540.3	540.8	541.3	538.4
37.5°	585.4	585.4	582.2	582.2	580.8	579.3	577.4	579.1	581.7	582.5	580.5
40°	635.6	637.2	633.4	633.1	633.6	629.0	626.8	629.5	631.2	634.1	631.9
42.5°	694.7	693.5	689.6	689.1	686.5	685.0	683.1	685.2	687.9	689.8	690.6
45°	751.4	750.4	746.1	746.1	743.4	742.2	743.2	746.8	748.0	750.7	753.4
47.5°	807.4	806.2	803.3	804.5	804.7	806.9	810.1	813.5	816.9	820.5	821.7
50°	864.6	864.9	861.7	864.6	868.2	874.3	882.8	888.4	895.4	900.0	901.5
52.5°	916.7	917.7	921.1	927.9	935.1	947.0	961.6	975.1	986.8	994.5	994.0
55°	979.3	980.7	989.0	1000.6	1012.5	1030.4	1052.0	1076.0	1095.4	1106.5	1099.5
57.5°	1059.3	1062.4	1071.6	1087.4	1105.1	1128.3	1157.9	1194.0	1224.1	1239.1	1227.7
60°	1169.1	1171.0	1182.1	1199.6	1220.9	1249.8	1289.3	1337.8	1380.2	1400.1	1387.0
62.5°	1313.8	1317.4	1326.4	1344.1	1365.9	1398.6	1446.8	1507.4	1560.3	1587.9	1558.3
65°	1486.6	1498.2	1505.7	1523.7	1544.0	1578.7	1629.1	1694.1	1750.8	1769.0	1734.8
67.5°	1657.7	1667.9	1681.0	1701.6	1722.2	1761.2	1808.0	1871.0	1933.3	1949.8	1896.7
70°	1732.6	1738.4	1758.8	1786.9	1826.4	1872.5	1926.5	1997.3	2074.4	2088.0	2020.6
72.5°	1582.6	1588.4	1611.2	1658.9	1727.8	1801.0	1895.3	1999.2	2101.1	2116.3	2023.5
75°	1196.9	1187.5	1221.2	1284.4	1377.3	1479.3	1611.2	1760.3	1907.4	1926.5	1815.8
77.5°	618.6	617.4	642.8	721.4	832.1	948.2	1093.4	1261.9	1405.9	1464.0	1373.9
80°	174.3	176.2	188.3	227.4	292.1	375.9	489.4	647.2	765.0	825.1	774.7
82.5°	68.4	73.7	78.3	85.6	94.0	106.4	142.0	211.4	283.6	338.9	277.5
85°	24.5	26.2	37.1	43.9	44.6	47.0	53.6	62.5	75.4	89.9	73.9
87.5°	9.2	10.2	11.9	19.6	19.4	17.7	21.6	22.5	17.0	15.5	19.1
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°	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3
2.5°	373.3	373.5	373.5	373.8	374.0	374.0	374.5	374.5
5°	373.5	373.5	373.0	373.3	373.0	373.0	373.3	373.3
7.5°	373.0	372.8	372.3	372.1	371.6	371.6	371.6	371.6
10°	372.3	372.1	371.6	371.3	371.1	371.1	371.1	371.1
12.5°	374.3	373.5	373.0	372.8	372.8	372.8	372.8	372.8
15°	379.3	377.6	376.4	376.4	376.7	377.2	377.2	377.6
17.5°	385.6	383.7	382.5	381.5	382.0	382.7	383.2	383.7
20°	393.2	392.2	390.5	389.5	389.5	390.5	391.0	391.2
22.5°	403.6	402.9	402.1	400.9	400.9	401.4	402.4	402.4
25°	419.1	418.6	418.1	417.2	416.9	416.9	417.4	417.9
27.5°	438.5	438.7	438.2	438.0	437.3	437.0	437.8	437.5
30°	464.4	465.6	466.8	465.9	464.7	463.9	463.2	462.2
32.5°	499.6	498.1	497.1	495.4	493.3	491.3	489.9	488.2
35°	532.8	530.4	529.4	530.8	530.6	529.4	527.7	526.2
37.5°	573.5	573.0	573.5	576.2	575.7	576.9	573.5	573.3
40°	624.9	625.4	628.8	631.9	633.6	635.3	633.4	631.4
42.5°	684.5	684.3	685.5	689.8	692.8	694.7	690.6	690.1
45°	747.5	745.8	746.8	750.4	753.4	755.5	750.9	750.9
47.5°	816.9	814.0	810.8	814.9	816.6	818.1	814.4	813.2
50°	894.2	888.1	881.3	883.0	883.0	882.5	877.9	877.7
52.5°	982.9	971.7	959.4	954.8	952.1	949.2	941.2	937.3
55°	1084.9	1068.2	1048.8	1037.0	1030.7	1022.7	1009.3	1005.7
57.5°	1204.2	1178.0	1144.6	1130.0	1116.0	1102.9	1088.1	1084.0
60°	1345.5	1307.0	1262.6	1235.7	1220.4	1207.8	1192.6	1191.8
62.5°	1503.1	1442.2	1392.1	1367.8	1356.7	1345.5	1331.0	1332.9
65°	1663.3	1599.8	1552.8	1533.1	1522.7	1513.5	1499.0	1501.1
67.5°	1821.3	1762.9	1711.3	1691.2	1679.5	1667.9	1654.8	1657.0
70°	1934.8	1862.3	1804.1	1759.5	1731.6	1700.1	1679.8	1674.7
72.5°	1902.3	1790.5	1698.2	1609.7	1557.9	1515.7	1487.1	1474.7
75°	1646.3	1493.6	1374.8	1266.3	1205.2	1155.5	1119.4	1096.8
77.5°	1222.6	1051.0	910.7	785.6	686.7	620.3	573.5	543.2
80°	669.2	509.0	372.1	261.5	192.2	159.7	141.1	132.1
82.5°	208.5	134.5	99.1	85.6	79.5	76.1	70.5	61.6
85°	66.4	58.2	54.1	51.6	49.2	42.9	29.6	26.9
87.5°	25.7	26.4	26.2	24.7	25.2	18.2	14.5	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)