

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: P299816

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299816
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-7030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6327.6 lumens
Efficiency: N/A
Efficacy: 107.2 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

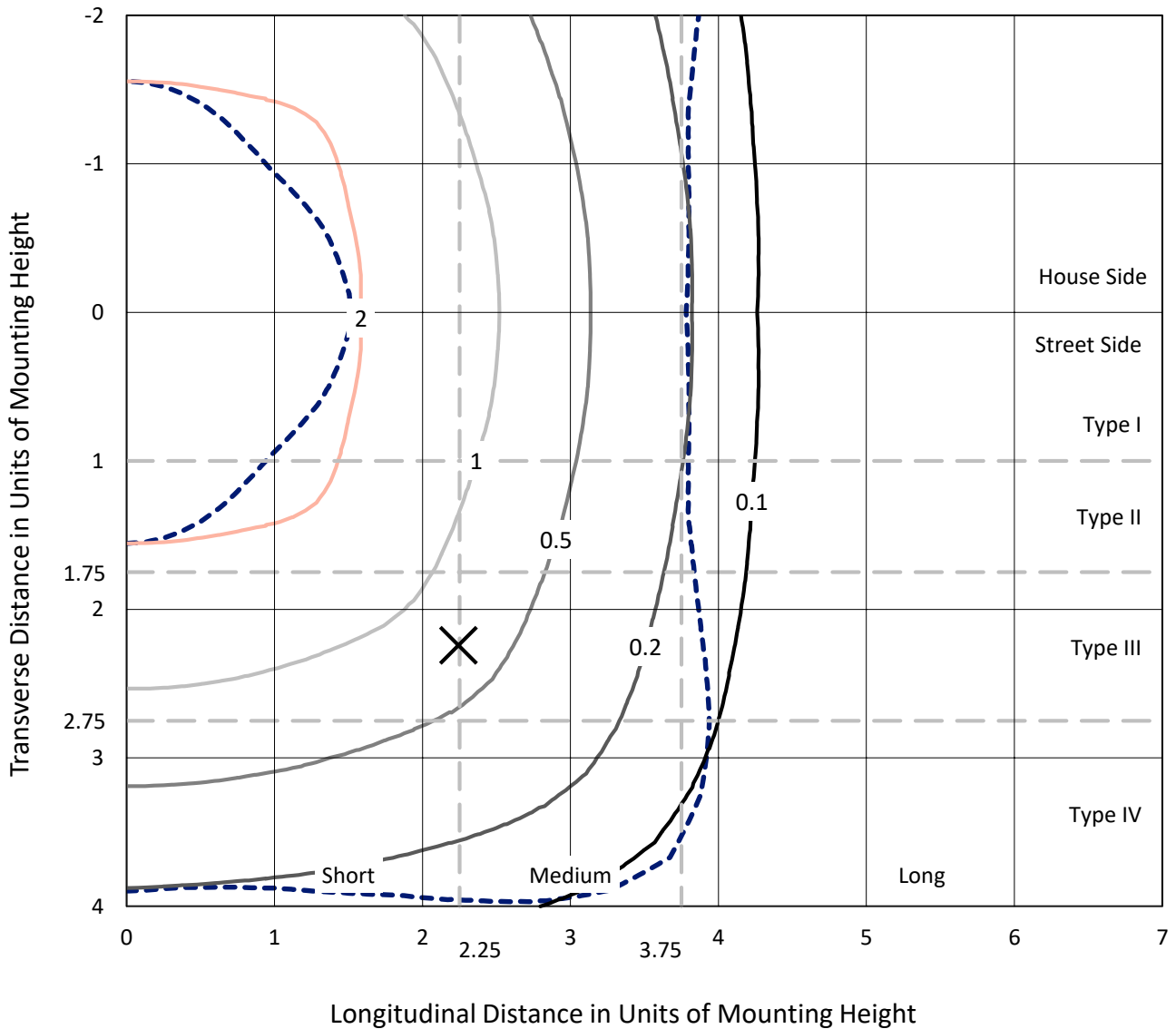
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

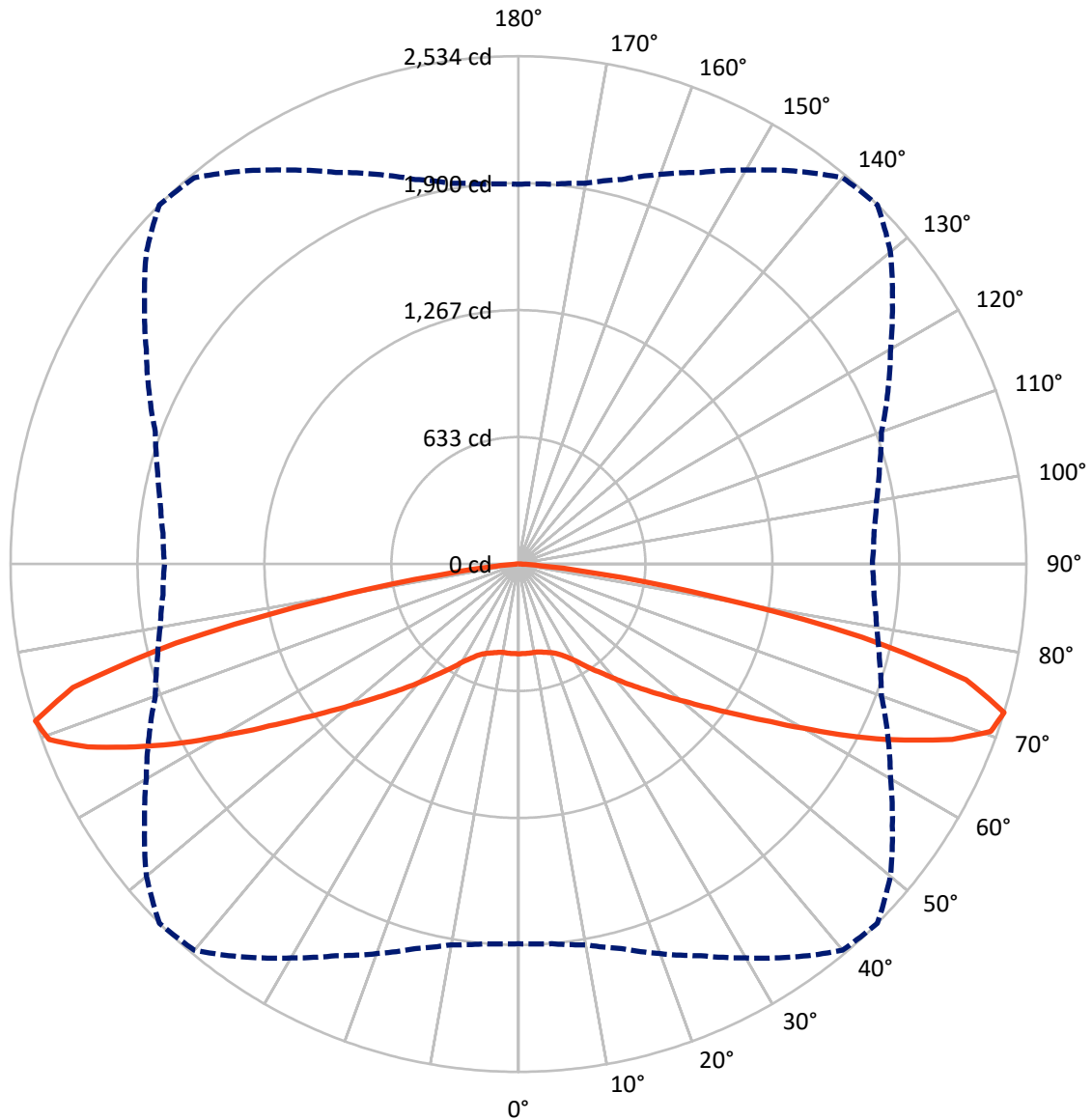
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 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	3163.8	0.0	3163.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3163.8	0.0	3163.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	6327.6	0.0	6327.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.8	0.7
10°-20°	130.0	2.1
20°-30°	237.5	3.8
30°-40°	409.5	6.5
40°-50°	699.9	11.1
50°-60°	1134.5	17.9
60°-70°	1882.1	29.7
70°-80°	1657.7	26.2
80°-90°	133.7	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°	6327.6	100.0
0°-180°	6327.6	100.0



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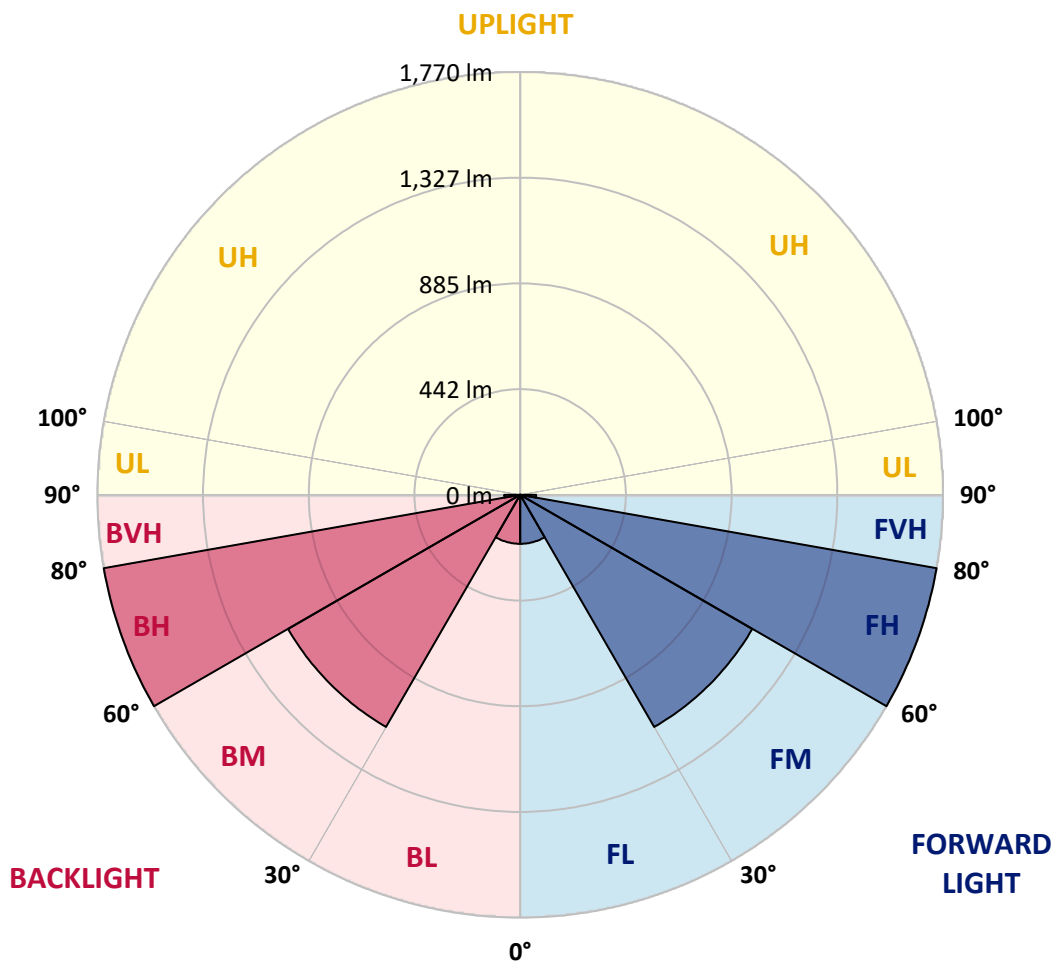
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	205.1	3.2			
FM	(30°-60°)	1122.0	17.7			
FH	(60°-80°)	1769.9	28.0			G1/1800
FVH	(80°-90°)	66.8	1.1			G1/100
BL	(0°-30°)	205.1	3.2	B1/500		
BM	(30°-60°)	1122.0	17.7	B2/2500		
BH	(60°-80°)	1769.9	28.0	B3/2500		G1/1800
BVH	(80°-90°)	66.8	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°	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1
2.5°	448.1	448.4	448.7	448.4	448.4	448.1	447.8	448.1	447.8	447.2	447.5
5°	449.5	450.1	450.1	449.5	449.8	449.5	449.0	449.3	448.7	447.8	447.8
7.5°	451.3	451.6	451.6	451.0	451.3	450.7	450.1	449.8	449.3	448.1	447.2
10°	453.9	454.2	453.9	453.3	453.3	452.4	451.0	450.4	449.3	447.5	446.6
12.5°	456.8	457.1	456.8	456.2	455.9	454.5	453.3	452.4	451.6	450.1	448.7
15°	460.9	461.4	460.9	459.7	458.8	457.7	457.1	457.4	457.7	456.5	455.1
17.5°	468.4	468.7	467.8	465.2	464.1	462.9	462.9	463.5	464.3	463.8	462.3
20°	482.3	481.5	479.4	476.2	474.8	472.8	472.5	472.8	472.8	472.5	471.3
22.5°	499.8	499.2	496.6	492.5	490.5	489.3	487.6	486.1	485.8	485.0	483.8
25°	520.6	520.4	517.2	513.7	512.2	510.8	509.3	507.3	505.6	503.5	502.4
27.5°	547.3	546.2	541.5	539.8	537.8	536.9	534.9	532.5	531.1	528.5	527.0
30°	576.7	576.7	572.9	572.3	572.3	570.3	568.0	563.9	561.3	558.7	557.8
32.5°	606.0	606.3	602.5	603.7	604.5	606.0	606.6	605.1	603.4	603.1	601.3
35°	648.3	647.2	643.4	644.3	644.0	643.7	643.7	646.9	647.5	648.1	644.6
37.5°	700.9	700.9	697.1	697.1	695.4	693.6	691.3	693.3	696.5	697.4	695.1
40°	760.9	763.0	758.3	758.0	758.6	753.1	750.5	753.7	755.7	759.2	756.6
42.5°	831.8	830.3	825.7	825.1	821.9	820.2	817.8	820.4	823.6	826.0	826.8
45°	899.7	898.5	893.3	893.3	890.1	888.6	889.8	894.2	895.6	898.8	902.0
47.5°	966.7	965.3	961.8	963.2	963.5	966.1	969.9	974.0	978.0	982.4	983.8
50°	1035.2	1035.5	1031.7	1035.2	1039.6	1046.8	1057.0	1063.6	1072.1	1077.6	1079.3
52.5°	1097.6	1098.8	1102.8	1111.0	1119.7	1133.9	1151.3	1167.5	1181.5	1190.8	1190.2
55°	1172.5	1174.2	1184.1	1198.0	1212.2	1233.7	1259.5	1288.3	1311.5	1324.8	1316.4
57.5°	1268.2	1272.0	1283.0	1301.9	1323.1	1351.0	1386.4	1429.6	1465.6	1483.6	1469.9
60°	1399.7	1402.0	1415.4	1436.3	1461.8	1496.4	1543.7	1601.7	1652.5	1676.3	1660.6
62.5°	1573.0	1577.3	1588.1	1609.3	1635.4	1674.6	1732.3	1804.9	1868.1	1901.2	1865.8
65°	1779.9	1793.8	1802.8	1824.3	1848.7	1890.2	1950.5	2028.3	2096.2	2118.0	2077.1
67.5°	1984.8	1997.0	2012.7	2037.3	2062.0	2108.7	2164.7	2240.2	2314.8	2334.5	2270.9
70°	2074.5	2081.4	2105.8	2139.5	2186.8	2241.9	2306.6	2391.4	2483.7	2499.9	2419.2
72.5°	1894.8	1901.8	1929.1	1986.2	2068.7	2156.3	2269.2	2393.7	2515.6	2533.9	2422.7
75°	1433.1	1421.8	1462.1	1537.9	1649.0	1771.2	1929.1	2107.6	2283.7	2306.6	2174.0
77.5°	740.6	739.2	769.7	863.7	996.3	1135.3	1309.2	1510.9	1683.3	1752.9	1644.9
80°	208.7	211.0	225.5	272.2	349.7	450.1	585.9	774.9	915.9	987.9	927.5
82.5°	81.8	88.2	93.7	102.4	112.6	127.4	170.1	253.1	339.6	405.7	332.3
85°	29.3	31.3	44.4	52.5	53.4	56.3	64.1	74.9	90.3	107.7	88.5
87.5°	11.0	12.2	14.2	23.5	23.2	21.2	25.8	27.0	20.3	18.6	22.9
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°	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1
2.5°	446.9	447.2	447.2	447.5	447.8	447.8	448.4	448.4
5°	447.2	447.2	446.6	446.9	446.6	446.6	446.9	446.9
7.5°	446.6	446.4	445.8	445.5	444.9	444.9	444.9	444.9
10°	445.8	445.5	444.9	444.6	444.3	444.3	444.3	444.3
12.5°	448.1	447.2	446.6	446.4	446.4	446.4	446.4	446.4
15°	454.2	452.2	450.7	450.7	451.0	451.6	451.6	452.2
17.5°	461.7	459.4	458.0	456.8	457.4	458.3	458.8	459.4
20°	470.7	469.6	467.5	466.4	466.4	467.5	468.1	468.4
22.5°	483.2	482.3	481.5	480.0	480.0	480.6	481.8	481.8
25°	501.8	501.2	500.6	499.5	499.2	499.2	499.8	500.3
27.5°	525.0	525.3	524.7	524.4	523.6	523.3	524.1	523.8
30°	556.1	557.5	559.0	557.8	556.3	555.5	554.6	553.4
32.5°	598.1	596.4	595.2	593.2	590.6	588.3	586.5	584.5
35°	637.9	635.0	633.8	635.6	635.3	633.8	631.8	630.1
37.5°	686.7	686.1	686.7	689.8	689.3	690.7	686.7	686.4
40°	748.2	748.8	752.8	756.6	758.6	760.7	758.3	756.0
42.5°	819.6	819.3	820.7	826.0	829.4	831.8	826.8	826.2
45°	895.0	893.0	894.2	898.5	902.0	904.6	899.1	899.1
47.5°	978.0	974.5	970.8	975.7	977.7	979.5	975.1	973.7
50°	1070.6	1063.4	1055.2	1057.3	1057.3	1056.7	1051.2	1050.9
52.5°	1176.8	1163.5	1148.7	1143.2	1140.0	1136.5	1126.9	1122.3
55°	1299.0	1279.0	1255.8	1241.5	1234.0	1224.4	1208.5	1204.1
57.5°	1441.8	1410.5	1370.4	1353.0	1336.2	1320.5	1302.8	1297.8
60°	1611.0	1564.8	1511.7	1479.5	1461.2	1446.2	1427.9	1427.0
62.5°	1799.6	1726.8	1666.7	1637.7	1624.3	1611.0	1593.6	1595.9
65°	1991.5	1915.4	1859.1	1835.6	1823.1	1812.1	1794.7	1797.3
67.5°	2180.7	2110.7	2048.9	2024.8	2010.9	1997.0	1981.3	1983.9
70°	2316.5	2229.7	2160.1	2106.7	2073.3	2035.6	2011.2	2005.1
72.5°	2277.6	2143.8	2033.3	1927.3	1865.2	1814.7	1780.5	1765.7
75°	1971.2	1788.3	1646.1	1516.1	1443.0	1383.5	1340.2	1313.2
77.5°	1463.9	1258.4	1090.3	940.6	822.2	742.7	686.7	650.4
80°	801.3	609.5	445.5	313.1	230.1	191.3	168.9	158.2
82.5°	249.6	161.1	118.7	102.4	95.2	91.1	84.5	73.7
85°	79.5	69.7	64.7	61.8	58.9	51.4	35.4	32.2
87.5°	30.8	31.6	31.3	29.6	30.2	21.8	17.4	15.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)