

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: STREETWORKS

Report Number: P192629

Luminaire Tested: **GAN-AF-01-LED-U-5WQ-7030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192629
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: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-5WQ-7030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6348 lumens
Efficiency: N/A
Efficacy: 107.6 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: 28.75 FT

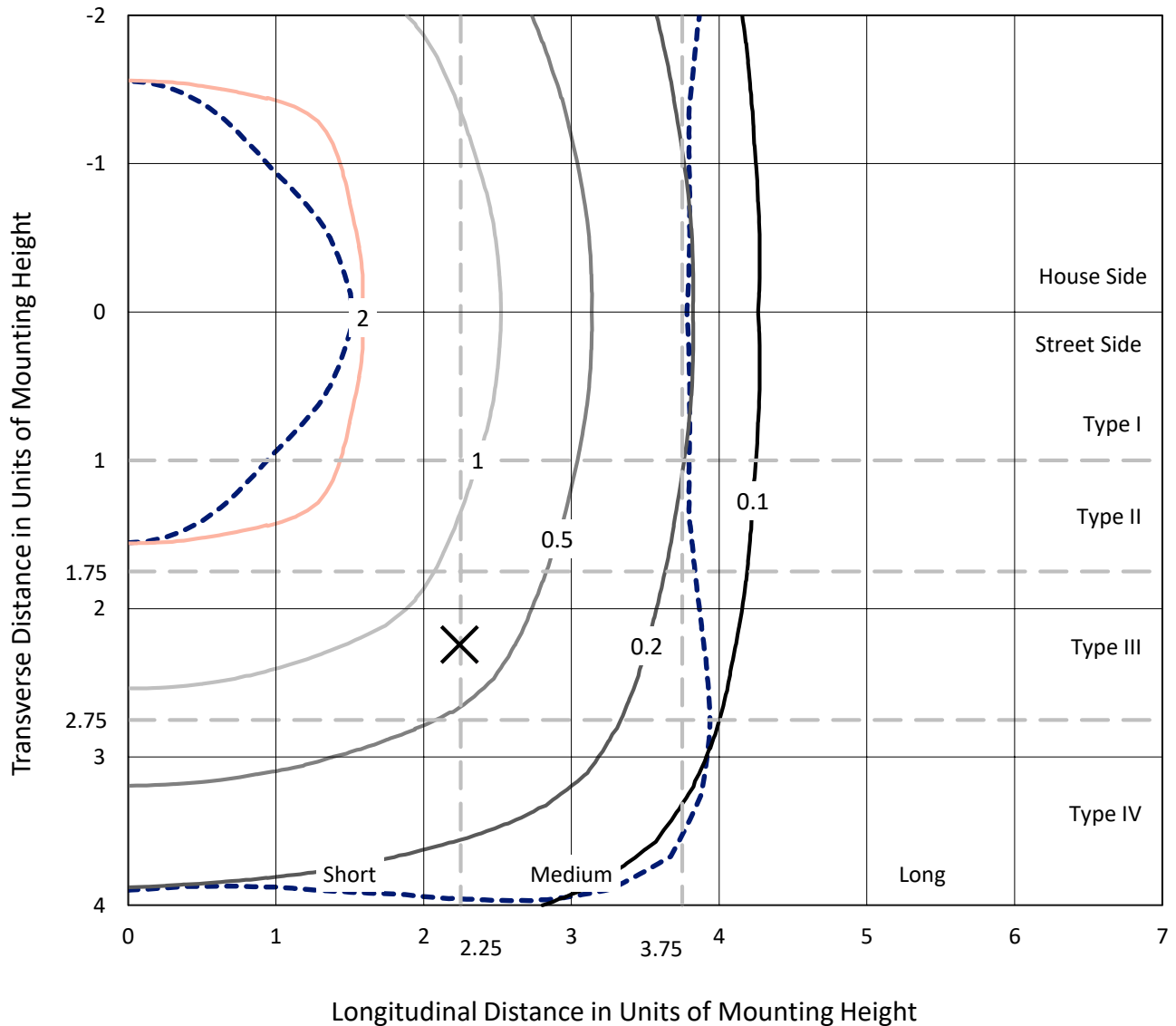


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

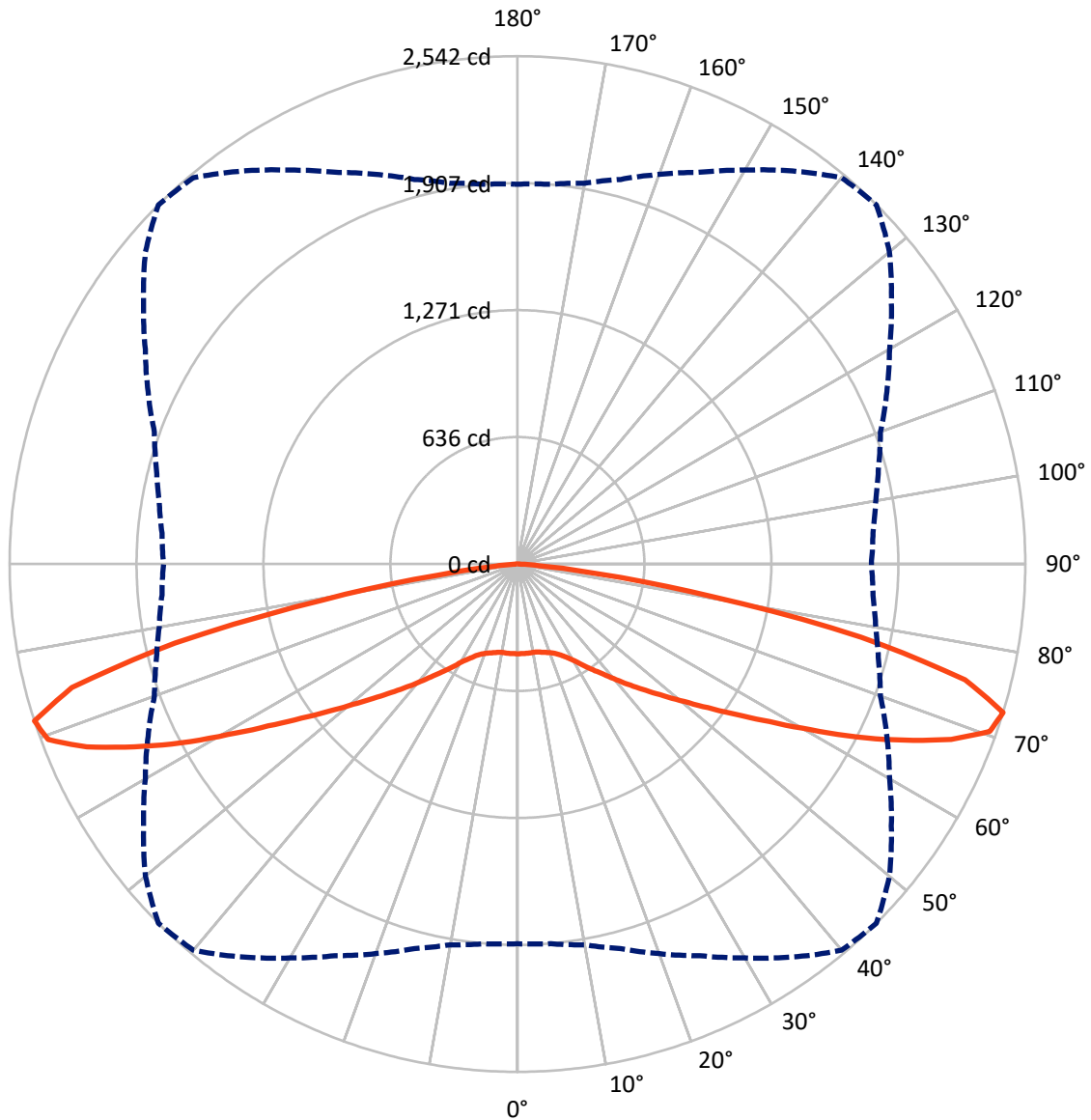


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Semi-Cutoff

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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	3174.0	0.0	3174.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3174.0	0.0	3174.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6348.0	0.0	6348.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	0.7
10°-20°	130.4	2.1
20°-30°	238.2	3.8
30°-40°	410.8	6.5
40°-50°	702.2	11.1
50°-60°	1138.2	17.9
60°-70°	1888.2	29.7
70°-80°	1663.0	26.2
80°-90°	134.1	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°	6348.0	100.0
0°-180°	6348.0	100.0



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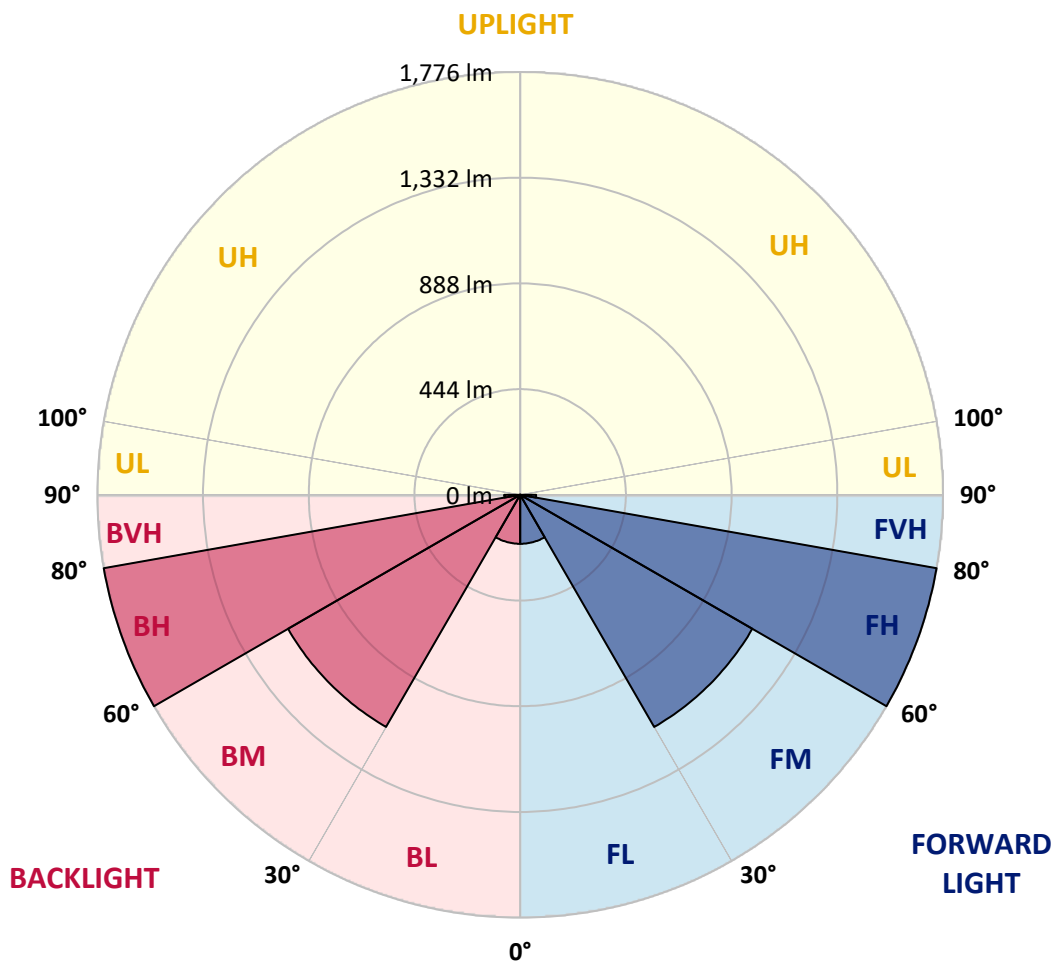
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	205.8	3.2			
FM (30°-60°)	1125.6	17.7			
FH (60°-80°)	1775.6	28.0			G1/1800
FVH (80°-90°)	67.0	1.1			G1/100
BL (0°-30°)	205.8	3.2	B1/500		
BM (30°-60°)	1125.6	17.7	B2/2500		
BH (60°-80°)	1775.6	28.0	B3/2500		G1/1800
BVH (80°-90°)	67.0	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°	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5
2.5°	449.5	449.8	450.1	449.8	449.8	449.5	449.3	449.5	449.3	448.6	448.9
5°	451.0	451.6	451.6	451.0	451.2	451.0	450.3	450.7	450.1	449.3	449.3
7.5°	452.8	453.0	453.0	452.5	452.8	452.2	451.6	451.2	450.7	449.5	448.6
10°	455.4	455.6	455.4	454.7	454.7	453.9	452.5	451.9	450.7	448.9	448.1
12.5°	458.3	458.6	458.3	457.7	457.4	455.9	454.7	453.9	453.0	451.6	450.1
15°	462.3	462.9	462.3	461.2	460.3	459.1	458.6	458.9	459.1	458.1	456.4
17.5°	470.0	470.3	469.4	466.7	465.6	464.4	464.4	465.0	465.9	465.2	463.8
20°	483.9	483.0	481.0	477.8	476.4	474.3	473.9	474.3	474.3	473.9	472.9
22.5°	501.4	500.7	498.1	494.1	492.0	490.9	489.2	487.7	487.4	486.5	485.3
25°	522.4	522.0	518.9	515.3	513.8	512.4	511.0	508.9	507.2	505.1	504.0
27.5°	549.1	547.9	543.2	541.5	539.5	538.6	536.6	534.3	532.8	530.2	528.7
30°	578.5	578.5	574.7	574.1	574.1	572.1	569.8	565.8	563.1	560.5	559.6
32.5°	607.9	608.2	604.4	605.7	606.5	607.9	608.5	607.1	605.3	605.0	603.2
35°	650.4	649.2	645.5	646.4	646.0	645.7	645.7	649.0	649.5	650.1	646.6
37.5°	703.1	703.1	699.4	699.4	697.6	695.9	693.5	695.6	698.7	699.6	697.3
40°	763.4	765.5	760.8	760.5	761.1	755.5	752.9	756.1	758.1	761.6	759.1
42.5°	834.4	833.0	828.3	827.7	824.6	822.8	820.4	823.0	826.3	828.6	829.5
45°	902.6	901.4	896.2	896.2	892.9	891.4	892.6	897.0	898.4	901.7	904.8
47.5°	969.7	968.4	964.9	966.3	966.6	969.2	973.1	977.1	981.1	985.5	987.0
50°	1038.5	1038.8	1035.0	1038.5	1042.9	1050.2	1060.4	1067.0	1075.5	1081.0	1082.8
52.5°	1101.2	1102.3	1106.4	1114.6	1123.3	1137.5	1155.0	1171.3	1185.3	1194.5	1193.9
55°	1176.2	1178.1	1187.8	1201.9	1216.2	1237.7	1263.6	1292.4	1315.7	1329.1	1320.6
57.5°	1272.4	1276.1	1287.2	1306.0	1327.4	1355.3	1390.9	1434.2	1470.3	1488.3	1474.7
60°	1404.2	1406.5	1420.0	1440.9	1466.5	1501.1	1548.6	1606.8	1657.8	1681.7	1665.9
62.5°	1578.0	1582.4	1593.2	1614.5	1640.6	1680.0	1737.9	1810.7	1874.2	1907.3	1871.8
65°	1785.7	1799.6	1808.6	1830.2	1854.5	1896.3	1956.9	2034.9	2103.0	2124.8	2083.8
67.5°	1991.1	2003.4	2019.1	2043.9	2068.6	2115.5	2171.6	2247.4	2322.2	2342.0	2278.3
70°	2081.2	2088.2	2112.5	2146.4	2193.8	2249.1	2314.0	2399.2	2491.6	2507.9	2426.9
72.5°	1900.9	1907.8	1935.3	1992.7	2075.3	2163.3	2276.5	2401.4	2523.7	2542.0	2430.5
75°	1437.8	1426.4	1466.8	1542.8	1654.3	1776.9	1935.3	2114.2	2291.0	2314.0	2181.1
77.5°	743.0	741.6	772.1	866.4	999.5	1139.0	1313.4	1515.8	1688.7	1758.5	1650.3
80°	209.3	211.6	226.2	273.1	350.8	451.6	587.9	777.4	918.9	991.1	930.6
82.5°	82.1	88.5	94.1	102.8	113.0	127.9	170.7	253.9	340.7	407.0	333.3
85°	29.4	31.4	44.6	52.7	53.5	56.5	64.4	75.2	90.5	108.0	88.8
87.5°	11.0	12.2	14.3	23.6	23.3	21.3	25.9	27.1	20.4	18.7	23.1
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°	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5
2.5°	448.4	448.6	448.6	448.9	449.3	449.3	449.8	449.8
5°	448.6	448.6	448.1	448.4	448.1	448.1	448.4	448.4
7.5°	448.1	447.8	447.2	446.9	446.4	446.4	446.4	446.4
10°	447.2	446.9	446.4	446.0	445.8	445.8	445.8	445.8
12.5°	449.5	448.6	448.1	447.8	447.8	447.8	447.8	447.8
15°	455.6	453.7	452.2	452.2	452.5	453.0	453.0	453.7
17.5°	463.3	460.8	459.4	458.3	458.9	459.8	460.3	460.8
20°	472.2	471.1	469.0	467.8	467.8	469.0	469.6	470.0
22.5°	484.8	483.9	483.0	481.7	481.7	482.2	483.3	483.3
25°	503.3	502.8	502.3	501.1	500.7	500.7	501.4	501.9
27.5°	526.7	526.9	526.4	526.1	525.2	525.0	525.9	525.5
30°	557.9	559.3	560.7	559.6	558.1	557.2	556.3	555.2
32.5°	600.1	598.3	597.1	595.1	592.5	590.1	588.4	586.4
35°	639.9	637.0	635.9	637.6	637.3	635.9	633.8	632.1
37.5°	688.9	688.3	688.9	692.0	691.5	692.9	688.9	688.6
40°	750.6	751.1	755.2	759.1	761.1	763.0	760.8	758.5
42.5°	822.1	821.9	823.4	828.6	832.1	834.4	829.5	829.0
45°	897.9	895.8	897.0	901.4	904.8	907.5	901.9	901.9
47.5°	981.1	977.7	973.9	978.9	980.9	982.7	978.3	976.8
50°	1074.0	1066.8	1058.6	1060.7	1060.7	1060.1	1054.6	1054.3
52.5°	1180.6	1167.2	1152.3	1146.7	1143.6	1140.1	1130.5	1125.9
55°	1303.1	1283.1	1259.8	1245.5	1238.0	1228.4	1212.3	1208.0
57.5°	1446.5	1415.0	1374.8	1357.3	1340.5	1324.8	1307.0	1302.1
60°	1616.2	1569.8	1516.6	1484.3	1465.9	1450.8	1432.5	1431.7
62.5°	1805.4	1732.3	1672.1	1642.9	1629.6	1616.2	1598.7	1600.9
65°	1998.0	1921.6	1865.0	1841.6	1829.0	1818.0	1800.5	1803.1
67.5°	2187.7	2117.6	2055.5	2031.3	2017.4	2003.4	1987.7	1990.2
70°	2324.0	2236.9	2167.0	2113.4	2080.0	2042.2	2017.7	2011.6
72.5°	2284.9	2150.8	2039.8	1933.6	1871.2	1820.6	1786.2	1771.3
75°	1977.5	1794.0	1651.4	1521.0	1447.5	1387.9	1344.6	1317.4
77.5°	1468.6	1262.4	1093.8	943.6	824.8	745.0	688.9	652.5
80°	803.8	611.5	446.9	314.1	230.9	191.9	169.5	158.7
82.5°	250.4	161.6	119.1	102.8	95.5	91.4	84.6	74.0
85°	79.8	69.9	64.9	62.1	59.1	51.6	35.5	32.3
87.5°	30.8	31.6	31.4	29.7	30.3	21.9	17.5	15.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)