

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: P198822

Luminaire Tested: **XNV-AF-01-LED-U-5WQ-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24131)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV-AF-01-LED-U-5WQ-7050  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 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: 6292 lumens  
Efficiency: N/A  
Efficacy: 108.5 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

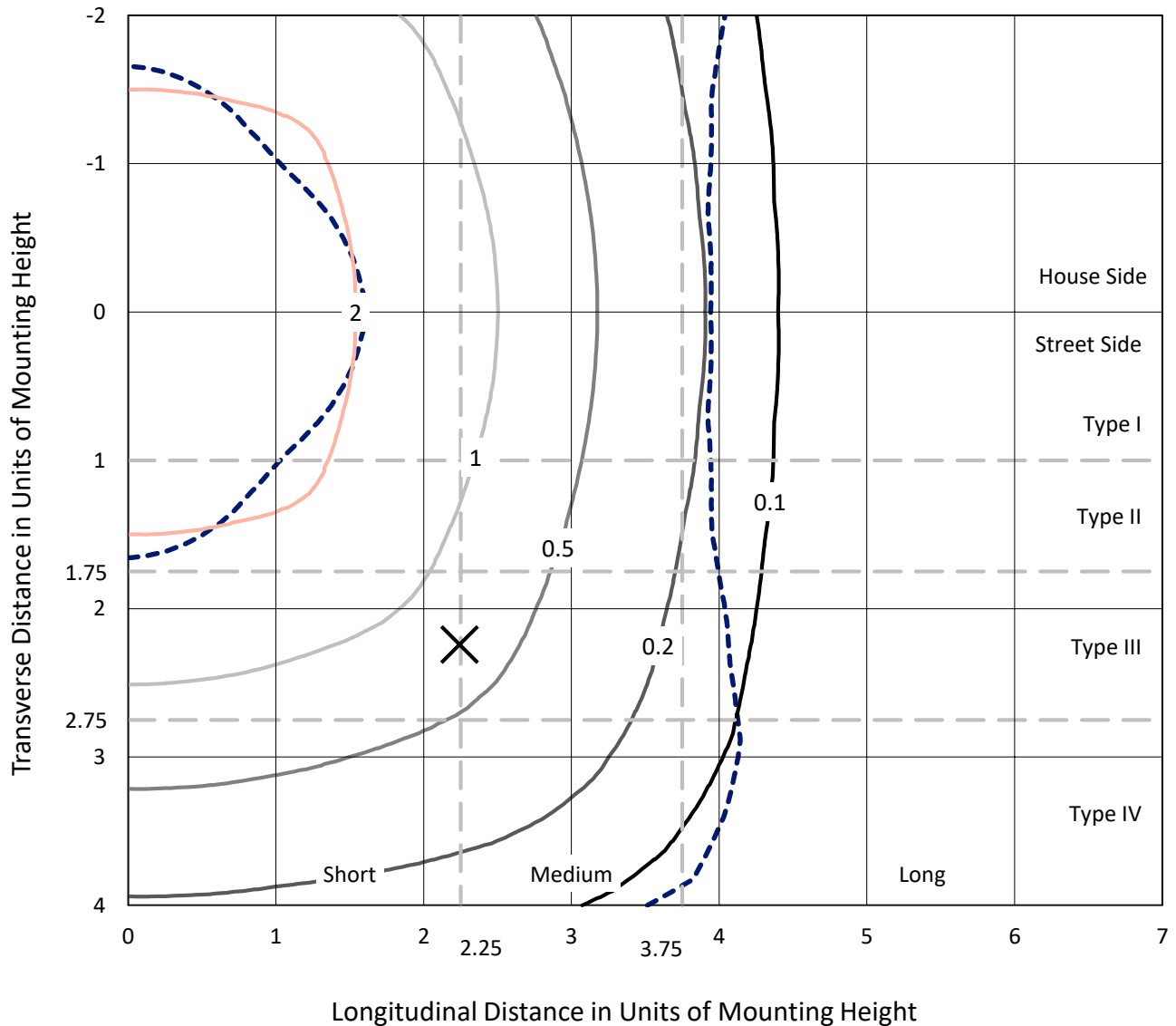
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

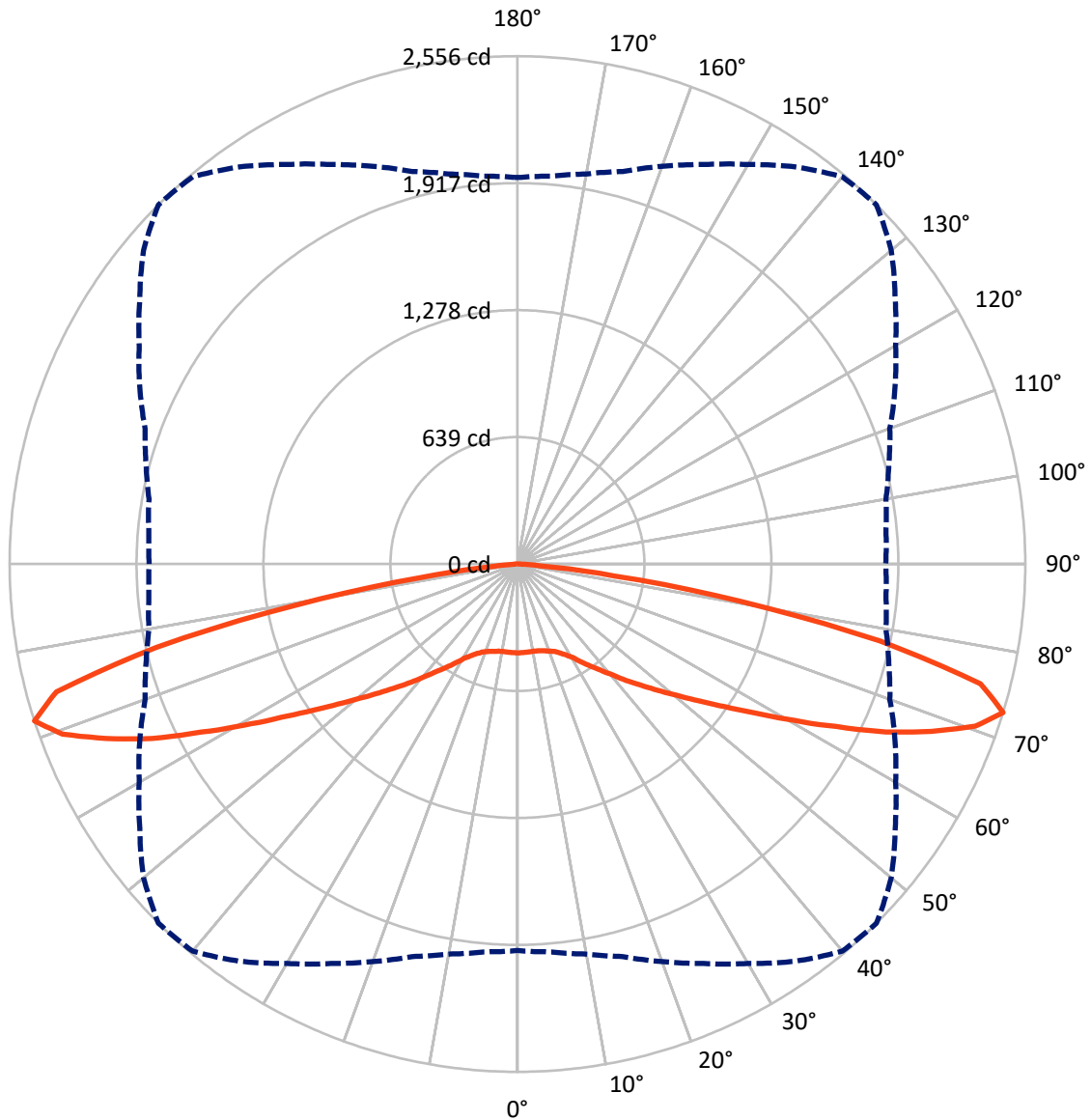
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	3146.0	0.0	3146.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3146.0	0.0	3146.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6292.0	0.0	6292.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.7	0.7
10°-20°	129.2	2.1
20°-30°	233.3	3.7
30°-40°	397.9	6.3
40°-50°	677.4	10.8
50°-60°	1090.2	17.3
60°-70°	1813.0	28.8
70°-80°	1753.9	27.9
80°-90°	154.4	2.5
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°	6292.0	100.0
0°-180°	6292.0	100.0



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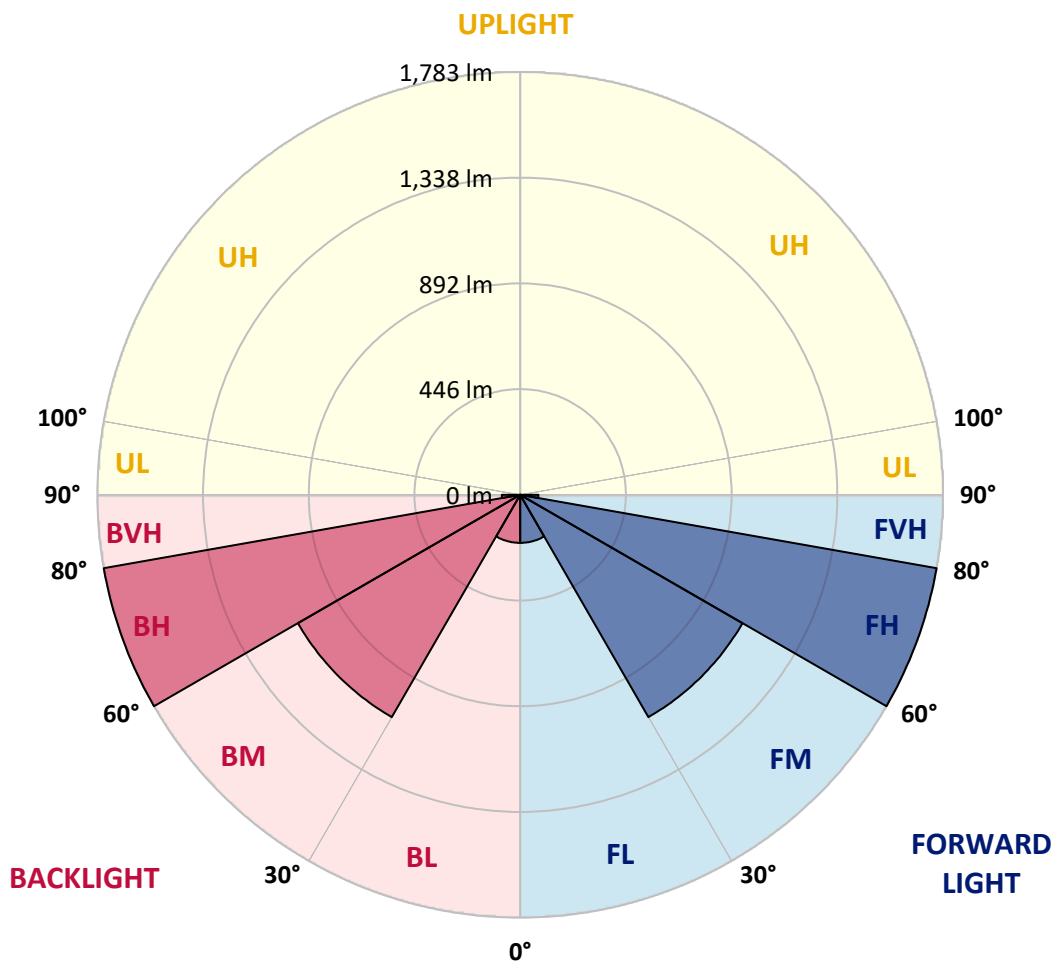
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	202.6	3.2			
FM	(30°-60°)	1082.8	17.2			
FH	(60°-80°)	1783.5	28.3			G1/1800
FVH	(80°-90°)	77.2	1.2			G1/100
BL	(0°-30°)	202.6	3.2	B1/500		
BM	(30°-60°)	1082.8	17.2	B2/2500		
BH	(60°-80°)	1783.5	28.3	B3/2500		G1/1800
BVH	(80°-90°)	77.2	1.2			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°	447.3	447.3	447.3	447.3	447.3	447.3	447.3	447.3	447.3	447.3	447.3
2.5°	450.8	450.8	451.2	450.8	450.0	449.6	448.5	447.7	446.9	446.5	445.8
5°	451.2	451.2	451.6	451.2	450.4	449.6	448.9	447.7	446.9	446.2	445.8
7.5°	452.7	453.1	453.5	453.1	451.6	450.8	449.6	448.5	446.9	446.2	445.4
10°	455.8	455.8	455.8	455.4	454.3	452.7	451.2	450.0	448.1	446.2	445.0
12.5°	458.2	458.5	458.5	457.8	456.2	454.3	452.7	451.6	450.0	448.5	447.3
15°	461.6	461.6	461.3	459.7	457.4	455.8	455.1	454.7	454.3	453.5	452.3
17.5°	468.6	468.2	467.1	464.7	462.0	460.9	460.1	460.1	460.1	459.7	458.9
20°	478.7	478.7	477.1	473.3	470.9	469.8	468.6	468.6	468.6	467.5	466.3
22.5°	495.0	495.3	493.0	488.4	485.3	482.9	481.4	480.2	479.1	478.3	476.4
25°	517.0	516.6	513.9	508.1	505.8	503.5	500.4	498.4	496.9	495.7	493.4
27.5°	540.3	539.9	536.8	531.7	530.2	526.7	524.4	521.7	519.7	517.8	515.5
30°	570.1	568.1	565.8	562.0	561.2	558.5	555.4	551.5	548.4	545.3	542.6
32.5°	596.8	596.8	593.3	591.4	592.9	591.8	592.2	589.8	587.9	586.7	584.0
35°	634.0	634.0	632.4	630.1	630.5	627.8	627.4	627.8	629.3	629.3	626.2
37.5°	683.6	684.3	679.3	678.5	676.6	672.7	670.8	671.6	675.0	677.0	672.7
40°	745.1	746.7	745.1	740.1	737.8	731.2	727.3	727.3	730.0	732.0	730.4
42.5°	805.9	808.7	805.9	802.1	800.1	795.1	793.2	794.7	798.2	800.5	798.2
45°	873.7	875.7	872.2	867.5	865.2	862.5	861.3	862.5	866.4	868.7	867.9
47.5°	940.3	943.0	938.8	936.8	936.8	934.1	937.2	940.3	943.8	949.2	946.9
50°	1005.4	1008.9	1006.2	1006.6	1009.7	1014.7	1020.5	1026.7	1032.9	1038.7	1039.5
52.5°	1063.5	1068.9	1069.3	1076.3	1085.9	1093.7	1110.0	1123.5	1138.2	1143.3	1140.9
55°	1124.7	1132.0	1141.7	1152.6	1168.1	1183.9	1211.4	1235.8	1255.2	1267.2	1265.3
57.5°	1212.2	1219.6	1229.6	1247.4	1270.7	1292.4	1329.9	1367.9	1397.3	1415.5	1406.6
60°	1325.7	1333.4	1346.6	1365.6	1395.8	1425.2	1476.7	1531.3	1577.0	1597.9	1581.7
62.5°	1475.9	1483.3	1491.8	1517.0	1550.7	1588.6	1653.3	1723.4	1781.5	1801.6	1778.8
65°	1690.1	1699.0	1701.7	1722.3	1755.2	1790.4	1860.1	1939.1	2005.4	2038.3	1992.6
67.5°	1931.4	1934.9	1945.7	1969.7	2003.4	2035.2	2090.2	2164.9	2228.4	2246.6	2197.8
70°	2072.7	2079.7	2098.7	2132.0	2172.3	2222.2	2282.3	2362.8	2434.9	2443.4	2381.4
72.5°	1944.9	1959.3	1993.0	2044.9	2129.3	2218.0	2321.4	2440.3	2543.7	2555.7	2456.2
75°	1560.0	1576.2	1616.5	1673.5	1773.4	1905.1	2054.5	2233.1	2388.0	2407.7	2276.1
77.5°	831.5	851.6	910.1	986.8	1129.3	1303.6	1483.7	1687.4	1819.1	1863.6	1768.7
80°	209.5	220.4	248.6	293.6	390.0	530.6	685.9	905.1	1068.5	1137.8	1068.5
82.5°	81.3	89.5	97.2	102.6	111.9	131.3	181.2	295.5	398.1	490.3	424.5
85°	31.4	33.3	48.0	54.6	54.6	60.0	68.9	81.3	100.7	110.0	92.2
87.5°	12.4	13.6	16.7	25.6	26.3	23.2	24.8	27.9	21.3	17.8	20.1
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°	447.3	447.3	447.3	447.3	447.3	447.3	447.3	447.3
2.5°	445.4	445.0	444.2	444.6	444.2	444.2	444.2	444.2
5°	445.0	445.0	444.2	444.2	444.2	444.6	444.2	444.2
7.5°	444.6	444.2	443.4	443.1	443.1	442.7	442.7	442.7
10°	443.8	443.1	442.3	441.9	441.9	441.1	441.1	441.1
12.5°	445.8	444.6	443.8	443.4	443.4	443.4	443.8	443.8
15°	451.2	448.9	447.7	447.3	447.7	448.5	448.9	449.3
17.5°	457.0	454.7	452.7	452.0	452.3	453.5	454.7	455.4
20°	464.4	462.4	460.1	459.3	459.3	460.9	461.6	462.8
22.5°	474.8	473.3	471.3	470.2	469.4	471.3	472.5	473.3
25°	491.5	489.9	488.4	487.2	486.8	488.8	489.5	489.9
27.5°	513.5	512.0	511.2	510.8	509.7	510.4	511.6	511.2
30°	542.2	543.4	542.2	542.2	540.3	541.0	540.3	539.5
32.5°	580.5	579.4	575.9	573.6	570.9	570.9	569.7	568.5
35°	618.9	615.0	613.1	614.2	613.1	613.8	611.9	610.0
37.5°	664.2	661.9	661.5	665.0	664.2	665.0	665.0	662.3
40°	724.2	722.7	725.4	731.2	733.5	733.1	733.9	730.4
42.5°	793.2	790.4	791.6	796.6	799.4	800.1	799.7	796.6
45°	862.1	862.9	862.9	868.3	871.0	872.6	869.8	868.7
47.5°	939.9	941.1	938.4	941.9	942.7	945.4	943.0	941.1
50°	1029.8	1025.5	1019.3	1020.5	1020.5	1019.7	1017.0	1014.7
52.5°	1130.1	1120.4	1108.8	1104.9	1100.7	1096.4	1091.0	1086.7
55°	1244.3	1227.7	1206.8	1197.1	1189.0	1179.3	1166.9	1162.6
57.5°	1376.8	1348.1	1320.3	1302.8	1281.9	1269.1	1253.3	1252.5
60°	1534.0	1495.3	1446.1	1420.2	1399.3	1384.2	1372.2	1367.5
62.5°	1715.7	1649.1	1596.0	1568.1	1543.7	1534.4	1519.3	1521.3
65°	1902.0	1834.2	1782.7	1760.2	1737.4	1731.2	1717.2	1722.3
67.5°	2103.7	2048.0	1991.4	1970.5	1949.6	1943.4	1929.1	1933.3
70°	2284.6	2213.7	2149.4	2108.4	2072.7	2044.1	2025.9	2018.5
72.5°	2320.6	2197.8	2096.8	1994.1	1934.9	1883.0	1861.7	1853.5
75°	2085.1	1894.6	1750.5	1630.1	1563.5	1487.9	1479.8	1468.6
77.5°	1621.9	1405.1	1230.8	1075.9	986.4	894.2	862.5	838.5
80°	967.4	743.6	576.3	403.9	329.6	265.3	249.4	232.8
82.5°	346.2	221.9	149.5	116.6	104.2	96.0	89.9	81.7
85°	83.7	70.5	66.6	60.4	59.6	50.7	36.0	32.1
87.5°	26.7	24.4	24.8	23.6	24.8	18.6	15.1	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)