

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: P198824

Luminaire Tested: **XNV-AF-01-LED-U-5WQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198824
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-7050-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6902 lumens
Efficiency: N/A
Efficacy: 104.6 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 - G2

Input Watts (W): 66
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

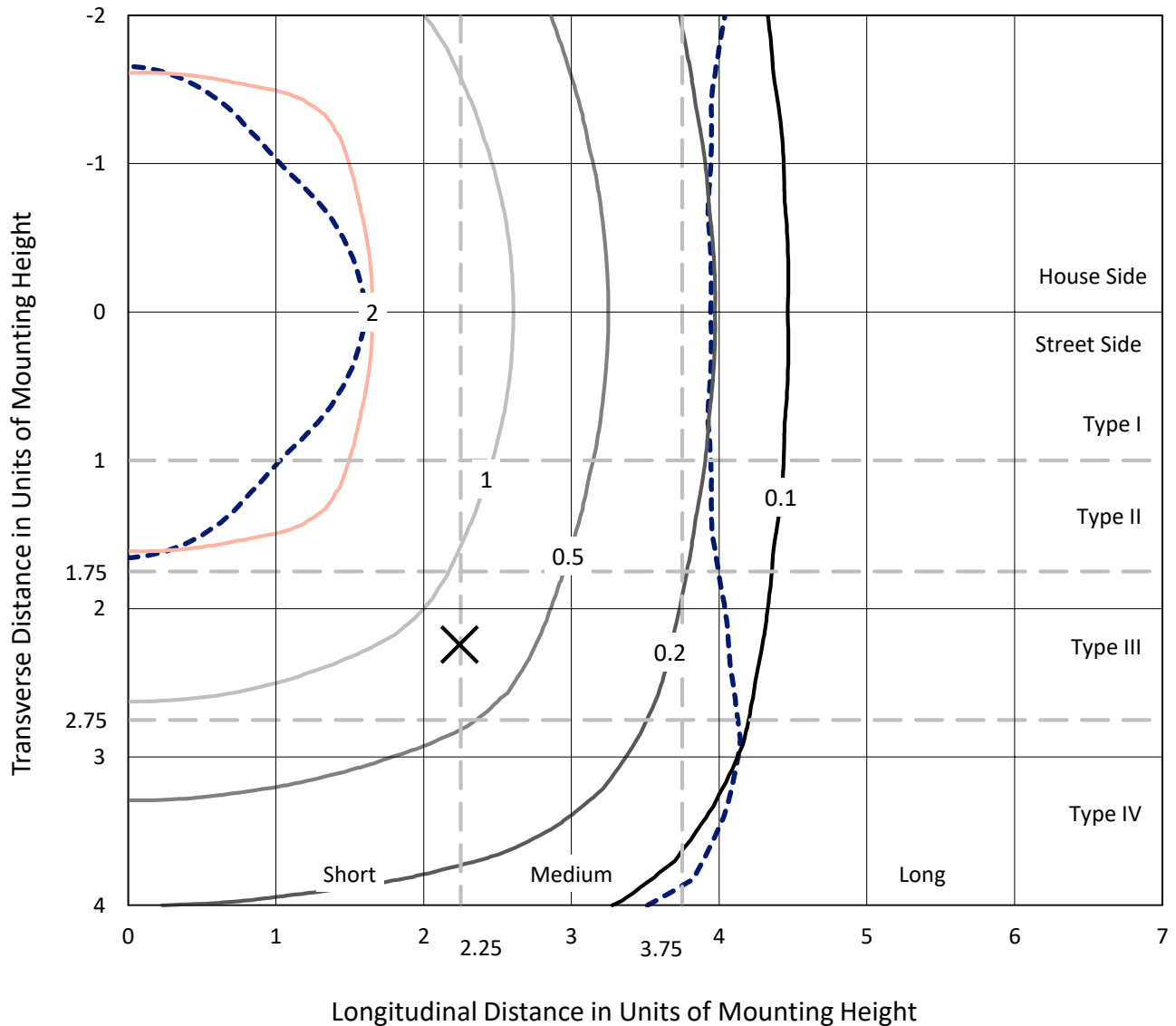


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

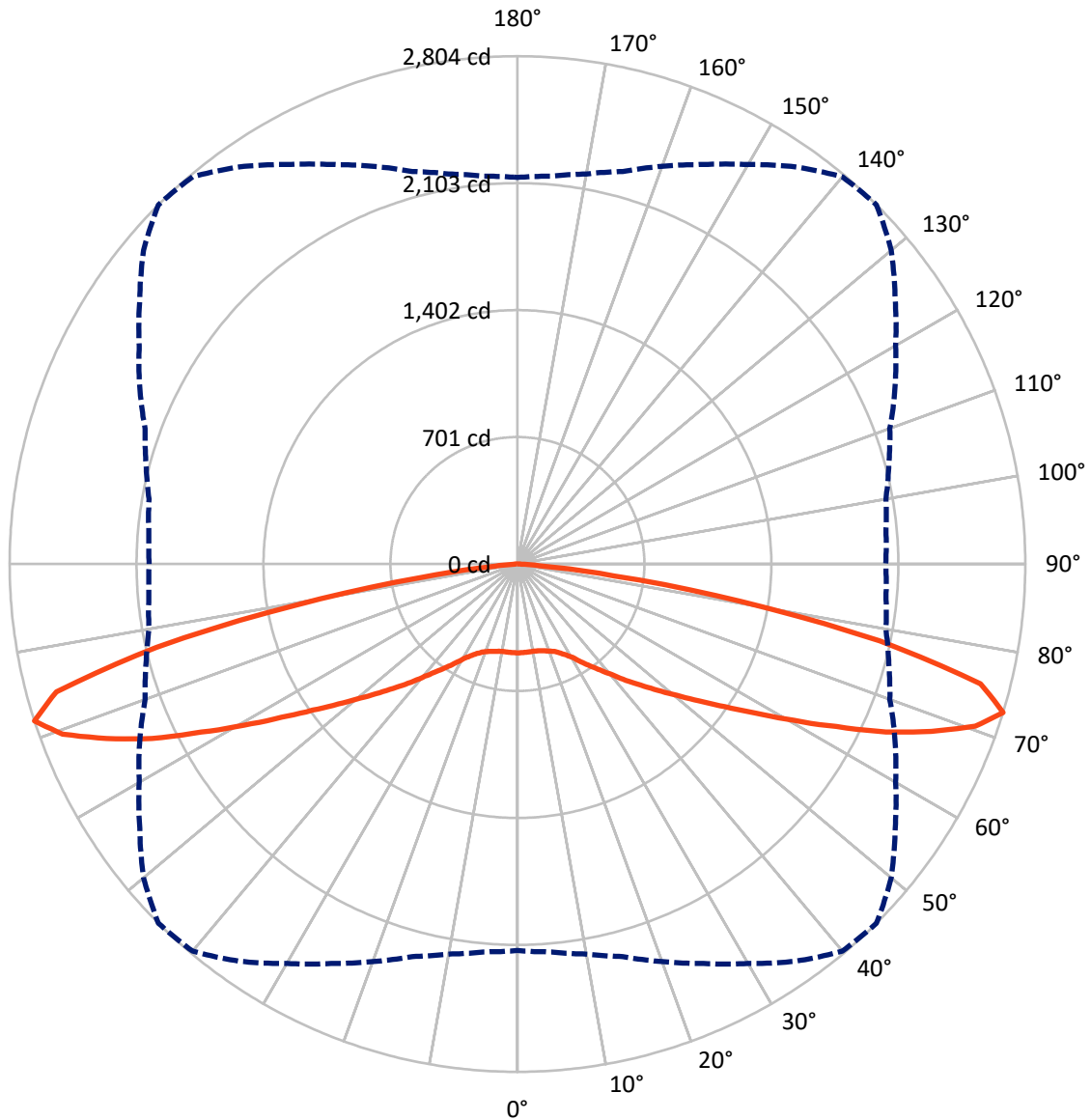


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - Semi-Cutoff

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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	3451.0	0.0	3451.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3451.0	0.0	3451.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6902.0	0.0	6902.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	0.7
10°-20°	141.7	2.1
20°-30°	255.9	3.7
30°-40°	436.5	6.3
40°-50°	743.1	10.8
50°-60°	1195.9	17.3
60°-70°	1988.8	28.8
70°-80°	1923.9	27.9
80°-90°	169.3	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°	6902.0	100.0
0°-180°	6902.0	100.0



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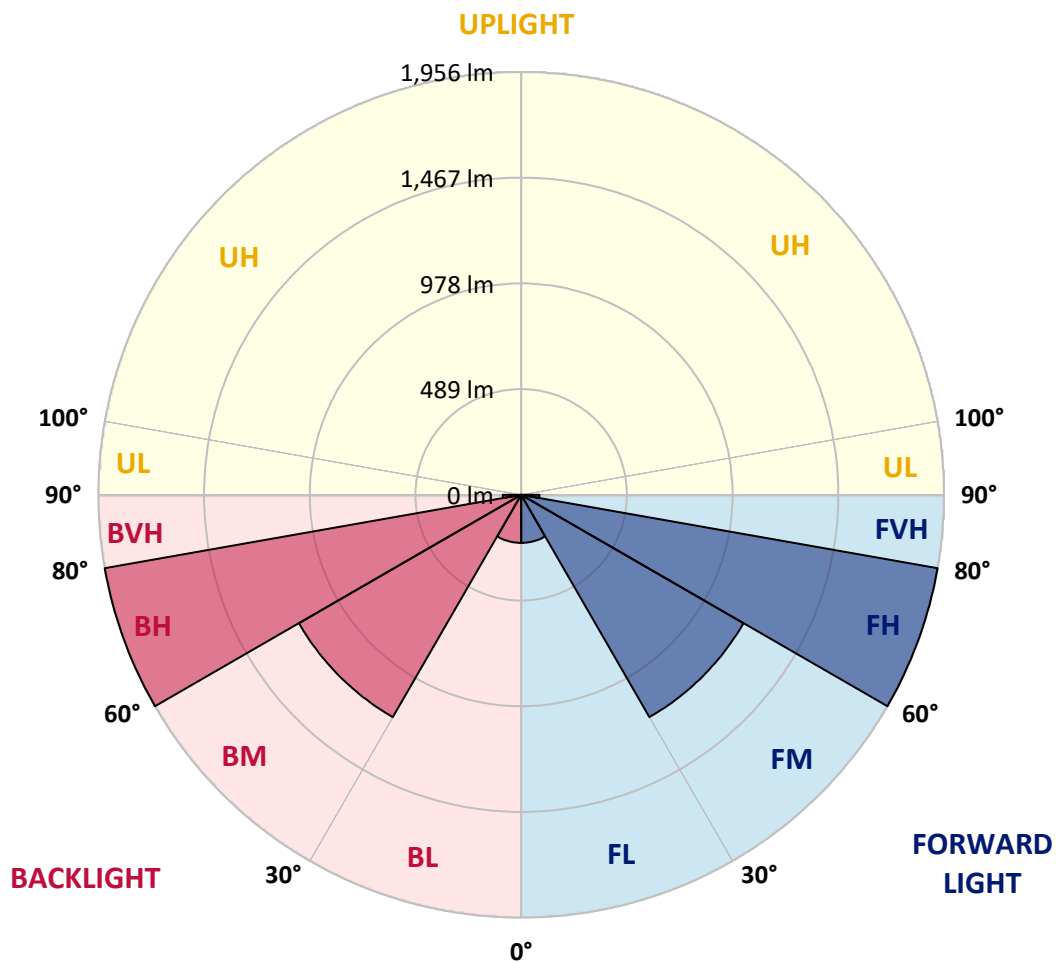
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	222.2	3.2			
FM (30°-60°)	1187.7	17.2			
FH (60°-80°)	1956.4	28.3			G2/5000
FVH (80°-90°)	84.7	1.2			G1/100
BL (0°-30°)	222.2	3.2	B1/500		
BM (30°-60°)	1187.7	17.2	B2/2500		
BH (60°-80°)	1956.4	28.3	B3/2500		G2/5000
BVH (80°-90°)	84.7	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	490.7	490.7	490.7	490.7	490.7	490.7	490.7	490.7	490.7	490.7	490.7
2.5°	494.5	494.5	494.9	494.5	493.7	493.2	492.0	491.1	490.3	489.8	489.0
5°	494.9	494.9	495.4	494.9	494.1	493.2	492.4	491.1	490.3	489.4	489.0
7.5°	496.6	497.1	497.5	497.1	495.4	494.5	493.2	492.0	490.3	489.4	488.6
10°	500.0	500.0	500.0	499.6	498.3	496.6	494.9	493.7	491.5	489.4	488.1
12.5°	502.6	503.0	503.0	502.2	500.5	498.3	496.6	495.4	493.7	492.0	490.7
15°	506.4	506.4	506.0	504.3	501.7	500.0	499.2	498.8	498.3	497.5	496.2
17.5°	514.0	513.6	512.3	509.8	506.8	505.5	504.7	504.7	504.7	504.3	503.4
20°	525.1	525.1	523.4	519.1	516.6	515.3	514.0	514.0	514.0	512.8	511.5
22.5°	542.9	543.4	540.8	535.7	532.3	529.8	528.1	526.8	525.5	524.7	522.5
25°	567.2	566.7	563.8	557.4	554.8	552.3	548.9	546.8	545.1	543.8	541.2
27.5°	592.6	592.2	588.8	583.3	581.6	577.8	575.2	572.2	570.1	568.0	565.5
30°	625.4	623.2	620.7	616.4	615.6	612.6	609.2	605.0	601.6	598.2	595.2
32.5°	654.7	654.7	650.8	648.7	650.4	649.1	649.6	647.0	644.9	643.6	640.6
35°	695.4	695.4	693.7	691.2	691.6	688.7	688.2	688.7	690.4	690.4	687.0
37.5°	749.8	750.7	745.2	744.3	742.2	737.9	735.8	736.7	740.5	742.6	737.9
40°	817.4	819.1	817.4	811.9	809.3	802.1	797.8	797.8	800.8	802.9	801.2
42.5°	884.1	887.0	884.1	879.8	877.7	872.2	870.1	871.8	875.6	878.1	875.6
45°	958.4	960.5	956.7	951.6	949.1	946.1	944.8	946.1	950.3	952.9	952.0
47.5°	1031.5	1034.5	1029.8	1027.7	1027.7	1024.7	1028.1	1031.5	1035.3	1041.3	1038.7
50°	1102.9	1106.7	1103.7	1104.1	1107.5	1113.1	1119.4	1126.2	1133.0	1139.4	1140.2
52.5°	1166.6	1172.5	1173.0	1180.6	1191.2	1199.7	1217.6	1232.4	1248.6	1254.1	1251.6
55°	1233.7	1241.8	1252.4	1264.3	1281.3	1298.7	1328.9	1355.6	1376.9	1390.0	1387.9
57.5°	1329.7	1337.8	1348.8	1368.4	1393.9	1417.7	1458.9	1500.5	1532.8	1552.8	1543.0
60°	1454.2	1462.7	1477.1	1498.0	1531.1	1563.4	1619.9	1679.8	1729.9	1752.9	1735.0
62.5°	1619.0	1627.1	1636.5	1664.1	1701.0	1742.7	1813.6	1890.5	1954.2	1976.3	1951.3
65°	1854.0	1863.7	1866.7	1889.2	1925.3	1964.0	2040.5	2127.1	2199.8	2235.9	2185.8
67.5°	2118.6	2122.5	2134.4	2160.7	2197.7	2232.5	2292.8	2374.8	2444.5	2464.4	2410.9
70°	2273.7	2281.3	2302.2	2338.7	2382.9	2437.7	2503.5	2591.9	2670.9	2680.3	2612.3
72.5°	2133.5	2149.2	2186.2	2243.1	2335.7	2433.0	2546.4	2676.9	2790.3	2803.5	2694.3
75°	1711.2	1729.1	1773.2	1835.7	1945.3	2089.7	2253.7	2449.6	2619.5	2641.2	2496.7
77.5°	912.1	934.2	998.4	1082.5	1238.8	1430.0	1627.5	1851.0	1995.4	2044.3	1940.2
80°	229.8	241.7	272.7	322.0	427.8	582.0	752.4	992.8	1172.1	1248.2	1172.1
82.5°	89.2	98.1	106.6	112.6	122.8	144.0	198.8	324.1	436.7	537.8	465.6
85°	34.4	36.5	52.7	59.9	59.9	65.8	75.6	89.2	110.5	120.7	101.1
87.5°	13.6	14.9	18.3	28.0	28.9	25.5	27.2	30.6	23.4	19.5	22.1
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°	490.7	490.7	490.7	490.7	490.7	490.7	490.7	490.7
2.5°	488.6	488.1	487.3	487.7	487.3	487.3	487.3	487.3
5°	488.1	488.1	487.3	487.3	487.3	487.7	487.3	487.3
7.5°	487.7	487.3	486.4	486.0	486.0	485.6	485.6	485.6
10°	486.9	486.0	485.2	484.7	484.7	483.9	483.9	483.9
12.5°	489.0	487.7	486.9	486.4	486.4	486.4	486.9	486.9
15°	494.9	492.4	491.1	490.7	491.1	492.0	492.4	492.8
17.5°	501.3	498.8	496.6	495.8	496.2	497.5	498.8	499.6
20°	509.4	507.2	504.7	503.9	503.9	505.5	506.4	507.7
22.5°	520.8	519.1	517.0	515.7	514.9	517.0	518.3	519.1
25°	539.1	537.4	535.7	534.4	534.0	536.1	537.0	537.4
27.5°	563.3	561.6	560.8	560.4	559.1	559.9	561.2	560.8
30°	594.8	596.0	594.8	594.8	592.6	593.5	592.6	591.8
32.5°	636.8	635.5	631.7	629.2	626.2	626.2	624.9	623.7
35°	678.9	674.6	672.5	673.8	672.5	673.4	671.2	669.1
37.5°	728.6	726.0	725.6	729.4	728.6	729.4	729.4	726.5
40°	794.4	792.7	795.7	802.1	804.6	804.2	805.1	801.2
42.5°	870.1	867.1	868.4	873.9	876.9	877.7	877.3	873.9
45°	945.7	946.5	946.5	952.5	955.4	957.1	954.2	952.9
47.5°	1031.1	1032.3	1029.4	1033.2	1034.0	1037.0	1034.5	1032.3
50°	1129.6	1125.0	1118.2	1119.4	1119.4	1118.6	1115.6	1113.1
52.5°	1239.7	1229.0	1216.3	1212.0	1207.4	1202.7	1196.8	1192.1
55°	1365.0	1346.7	1323.8	1313.2	1304.2	1293.6	1280.0	1275.3
57.5°	1510.3	1478.8	1448.3	1429.1	1406.2	1392.2	1374.8	1373.9
60°	1682.8	1640.3	1586.3	1557.9	1534.9	1518.3	1505.2	1500.1
62.5°	1882.0	1808.9	1750.7	1720.1	1693.4	1683.2	1666.6	1668.7
65°	2086.3	2012.0	1955.5	1930.9	1905.8	1899.0	1883.7	1889.2
67.5°	2307.7	2246.5	2184.5	2161.5	2138.6	2131.8	2116.1	2120.8
70°	2506.1	2428.3	2357.8	2312.8	2273.7	2242.3	2222.3	2214.2
72.5°	2545.6	2410.9	2300.0	2187.5	2122.5	2065.5	2042.2	2033.2
75°	2287.3	2078.3	1920.2	1788.1	1715.0	1632.2	1623.3	1611.0
77.5°	1779.2	1541.3	1350.1	1180.2	1082.0	980.9	946.1	919.8
80°	1061.2	815.7	632.1	443.1	361.5	291.0	273.6	255.3
82.5°	379.8	243.4	164.0	127.9	114.3	105.4	98.6	89.6
85°	91.8	77.3	73.1	66.3	65.4	55.7	39.5	35.3
87.5°	29.3	26.8	27.2	25.9	27.2	20.4	16.6	14.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)