

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: P198811

Luminaire Tested: **XNV2-AF-02-LED-U-5NQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24130)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV2-AF-02-LED-U-5NQ-7050-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8168 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

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

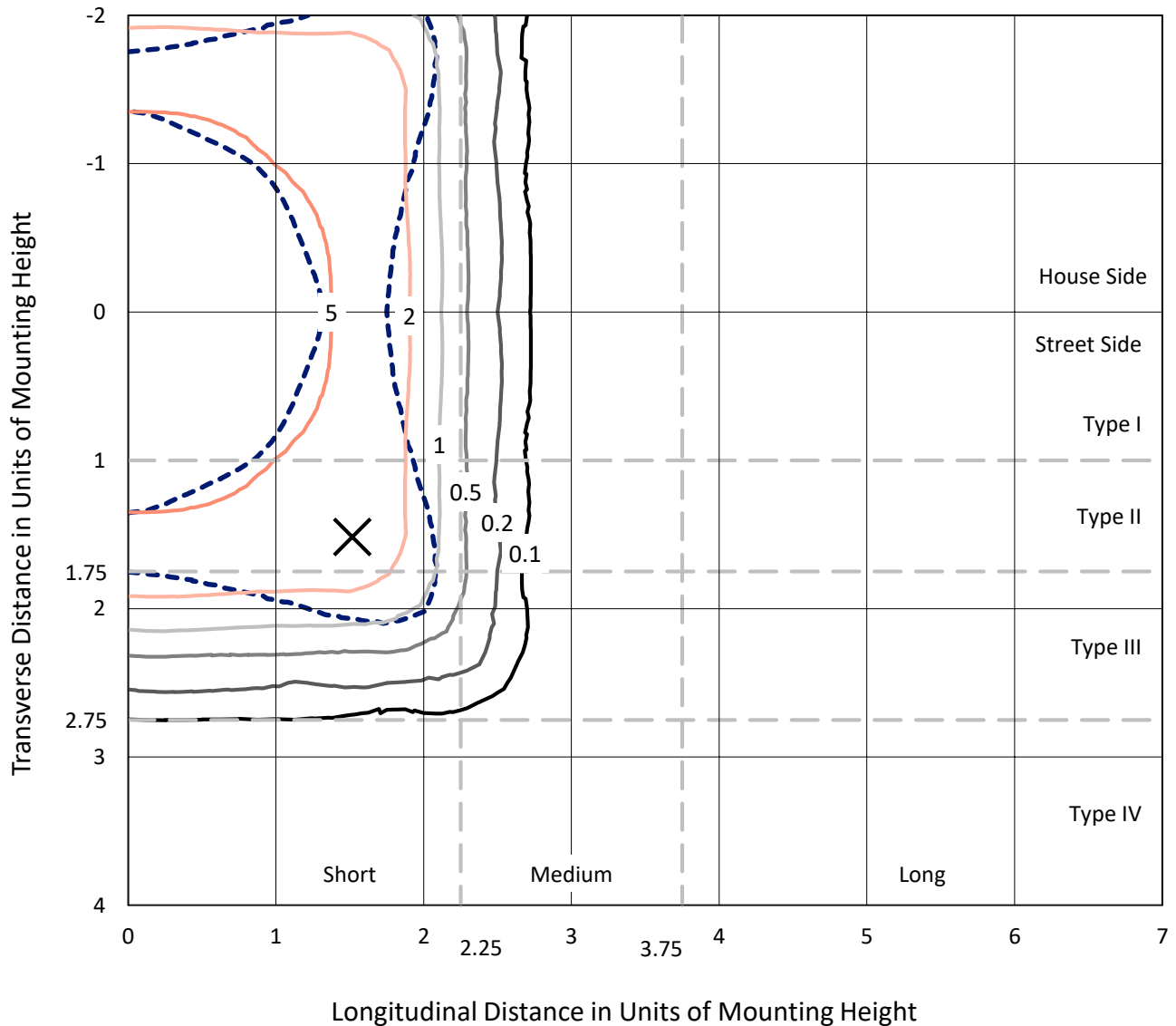


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Iso-Footcandle Lines of Horizontal Illumination

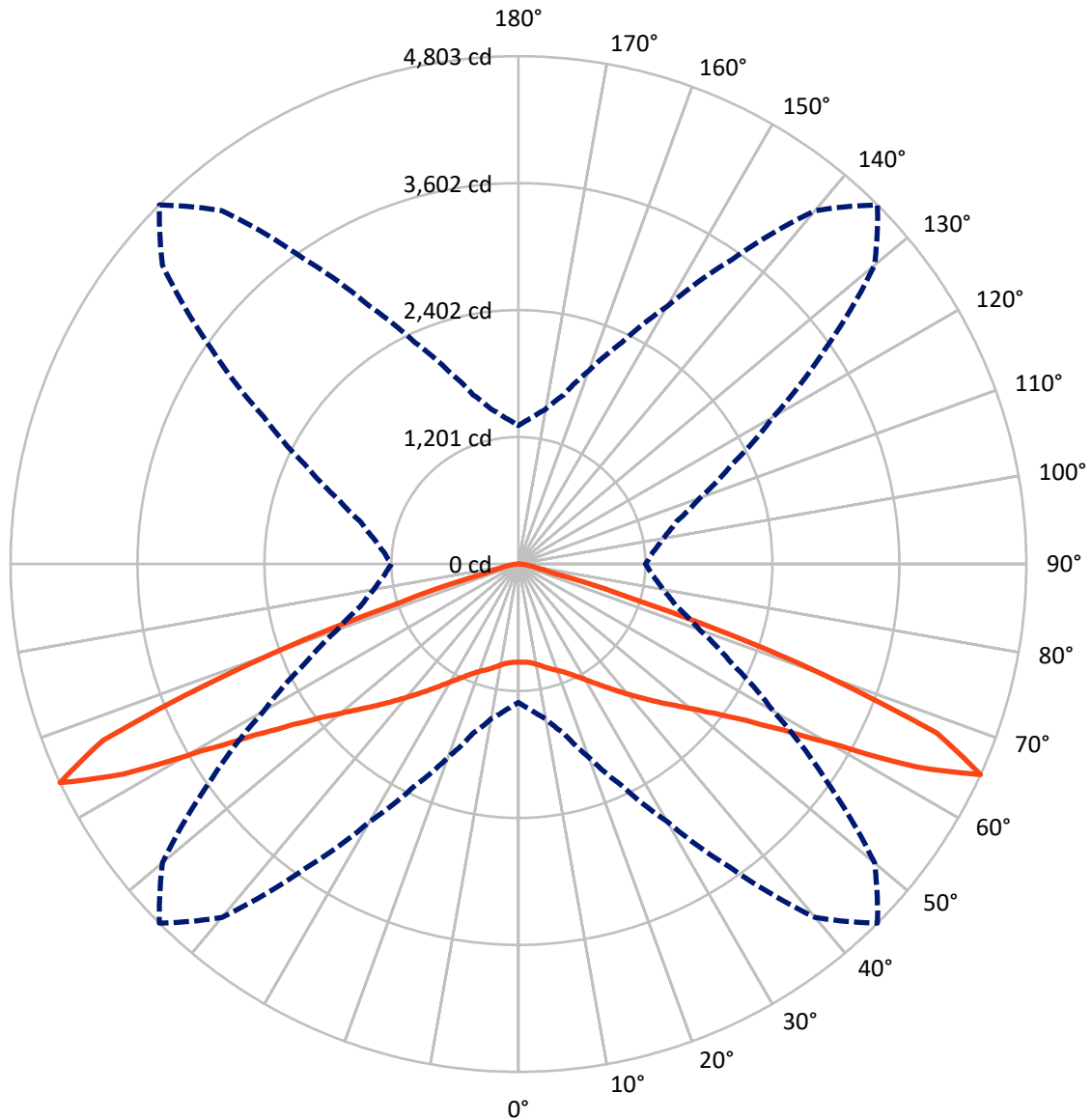
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4084.0	0.0	4084.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4084.0	0.0	4084.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8168.0	0.0	8168.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	1.1
10°-20°	290.0	3.6
20°-30°	541.0	6.6
30°-40°	912.1	11.2
40°-50°	1481.6	18.1
50°-60°	2321.4	28.4
60°-70°	2191.2	26.8
70°-80°	295.3	3.6
80°-90°	45.0	0.6
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°	8168.0	100.0
0°-180°	8168.0	100.0

Coefficient of Utilization



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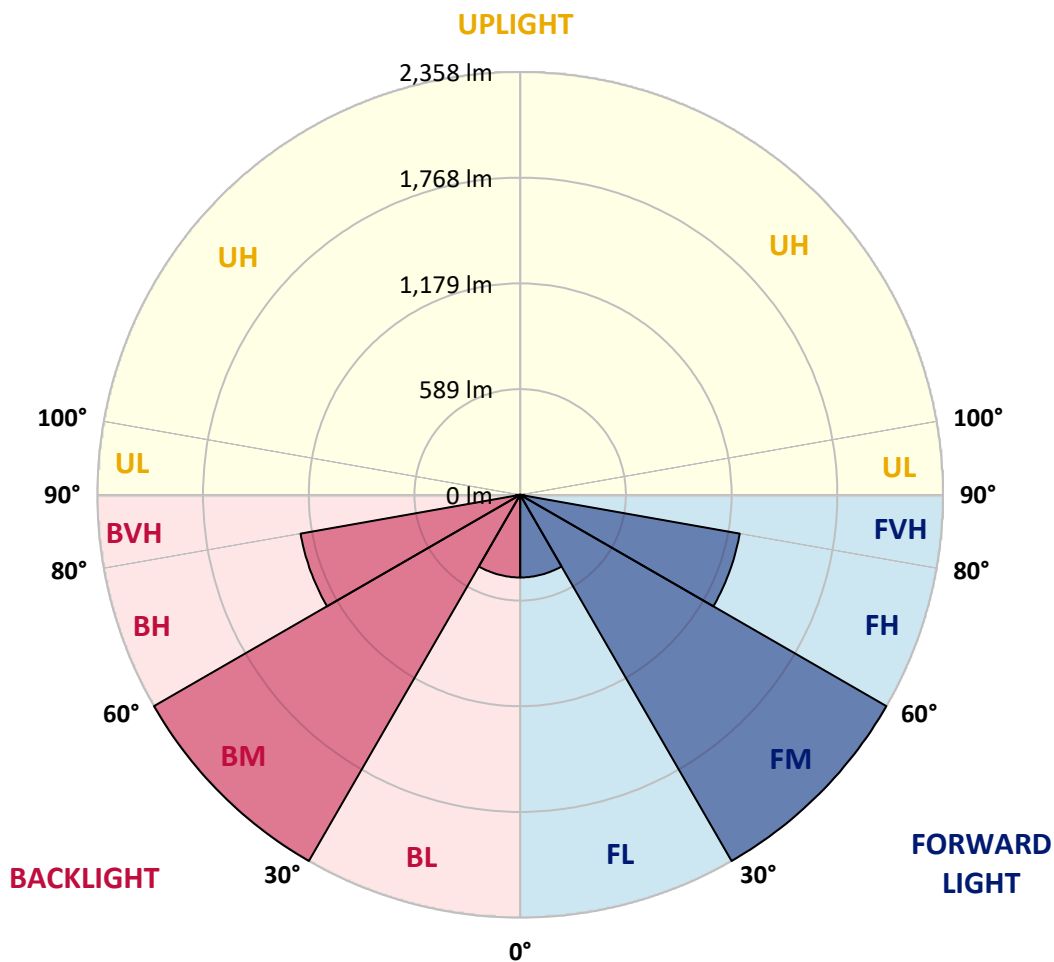
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	460.7	5.6			
FM	(30°-60°)	2357.5	28.9			
FH	(60°-80°)	1243.3	15.2			G1/1800
FVH	(80°-90°)	22.5	0.3			G1/100
BL	(0°-30°)	460.7	5.6	B1/500		
BM	(30°-60°)	2357.5	28.9	B2/2500		
BH	(60°-80°)	1243.3	15.2	B3/2500		G1/1800
BVH	(80°-90°)	22.5	0.3			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°	929.1	929.1	929.1	929.1	929.1	929.1	929.1	929.1	929.1	929.1	929.1
2.5°	936.7	936.7	938.3	937.8	935.7	934.2	932.7	930.6	929.6	928.6	928.1
5°	941.8	941.8	943.3	942.8	941.3	939.3	938.3	936.7	935.2	934.2	934.7
7.5°	954.5	955.0	955.6	955.0	953.5	952.0	950.0	949.5	947.4	945.9	946.9
10°	973.9	973.9	974.4	974.9	973.9	970.3	970.3	969.3	967.3	965.2	965.7
12.5°	995.2	995.2	995.8	995.8	995.8	993.7	994.2	993.7	991.2	990.2	991.2
15°	1016.1	1016.6	1016.6	1017.6	1017.6	1018.1	1020.2	1020.2	1019.2	1018.7	1018.7
17.5°	1040.5	1041.5	1042.1	1043.6	1044.1	1045.1	1047.1	1047.7	1048.2	1046.6	1047.1
20°	1073.1	1073.6	1075.1	1075.6	1077.7	1077.7	1078.7	1078.2	1077.2	1075.1	1075.1
22.5°	1109.7	1110.7	1113.8	1113.8	1116.3	1114.8	1115.3	1113.8	1111.3	1110.2	1109.2
25°	1157.6	1159.1	1161.6	1160.6	1161.6	1159.1	1159.1	1159.1	1157.6	1156.0	1155.5
27.5°	1218.1	1215.6	1218.1	1216.1	1215.6	1213.5	1214.0	1213.0	1211.5	1211.0	1208.9
30°	1281.2	1278.1	1279.7	1280.2	1279.2	1278.7	1276.6	1275.1	1272.6	1273.1	1271.5
32.5°	1353.5	1350.4	1351.9	1352.4	1351.4	1352.4	1351.9	1348.4	1345.3	1347.3	1347.3
35°	1439.4	1437.4	1441.5	1443.0	1440.0	1438.4	1436.4	1432.3	1427.7	1430.8	1431.3
37.5°	1542.7	1540.2	1543.2	1547.3	1541.7	1538.7	1530.5	1524.4	1521.4	1522.9	1524.9
40°	1650.1	1650.6	1659.3	1660.3	1654.2	1650.6	1642.5	1633.3	1624.7	1624.7	1627.2
42.5°	1763.1	1764.6	1774.8	1778.3	1776.3	1769.7	1758.5	1747.3	1736.1	1738.1	1741.2
45°	1890.8	1888.7	1899.4	1908.1	1906.5	1904.5	1893.8	1873.5	1863.3	1862.8	1867.9
47.5°	2025.1	2029.2	2040.4	2055.1	2054.6	2049.5	2035.8	2017.0	1998.1	1999.7	2005.8
50°	2181.8	2187.4	2206.2	2221.0	2223.0	2221.5	2205.2	2183.3	2156.9	2158.4	2166.5
52.5°	2322.2	2330.4	2352.3	2382.8	2401.6	2410.3	2399.6	2379.2	2352.3	2353.8	2362.4
55°	2449.4	2462.2	2494.7	2536.5	2574.1	2609.2	2625.0	2624.5	2604.6	2609.2	2620.4
57.5°	2529.3	2547.1	2596.5	2663.7	2738.5	2809.2	2870.2	2927.7	2940.5	2964.4	2964.4
60°	2422.0	2463.7	2529.3	2644.3	2791.4	2950.1	3122.1	3289.5	3397.4	3482.3	3436.6
62.5°	2022.5	2084.1	2176.2	2327.8	2556.8	2840.2	3185.7	3574.9	3981.0	4229.3	4047.1
65°	1308.7	1386.0	1486.3	1656.7	1945.2	2310.0	2813.3	3512.9	4362.6	4803.2	4396.2
67.5°	518.5	570.9	632.0	753.0	1003.4	1361.6	1926.4	2789.3	3852.3	4268.0	3811.5
70°	247.8	256.4	268.1	294.1	356.7	481.3	773.9	1374.3	2362.4	2800.5	2306.0
72.5°	179.1	180.6	186.2	194.9	213.2	238.6	290.0	420.3	814.6	1184.5	815.6
75°	135.9	137.9	140.9	145.5	155.2	167.4	186.7	223.9	278.8	321.6	278.3
77.5°	103.3	105.3	107.9	112.4	117.5	126.2	133.3	148.1	171.5	180.6	179.6
80°	75.3	78.9	82.9	87.0	90.6	94.6	95.1	102.3	115.5	124.2	121.6
82.5°	47.8	50.9	61.6	66.1	66.7	67.7	67.2	67.7	74.8	80.9	78.9
85°	30.5	32.6	38.2	43.2	42.2	44.3	44.3	43.2	40.2	34.6	41.2
87.5°	15.3	15.8	18.3	22.9	21.9	19.3	18.8	18.8	13.7	11.7	12.7
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°	929.1	929.1	929.1	929.1	929.1	929.1	929.1	929.1
2.5°	926.6	927.6	926.0	926.0	925.5	926.6	925.0	925.0
5°	933.7	935.2	934.7	934.7	935.7	936.7	936.2	935.7
7.5°	946.4	947.4	948.4	948.9	950.0	949.5	950.5	950.0
10°	965.7	964.7	966.2	964.7	965.2	964.2	964.7	964.7
12.5°	990.2	988.6	987.6	986.6	986.6	984.6	984.6	985.1
15°	1018.1	1015.6	1013.6	1012.5	1011.5	1011.5	1010.0	1011.0
17.5°	1045.6	1043.1	1039.5	1039.5	1038.0	1037.0	1036.0	1038.5
20°	1074.6	1072.1	1070.0	1069.5	1066.5	1065.5	1066.0	1069.0
22.5°	1108.2	1106.7	1106.7	1105.7	1103.6	1102.1	1102.1	1105.7
25°	1153.5	1150.4	1150.9	1151.5	1150.4	1150.4	1149.4	1152.0
27.5°	1208.9	1206.4	1207.9	1208.9	1207.9	1209.5	1207.9	1210.0
30°	1274.1	1272.6	1274.1	1275.6	1273.1	1273.1	1272.0	1273.6
32.5°	1351.9	1349.9	1350.9	1350.9	1347.3	1344.3	1340.2	1343.3
35°	1437.4	1434.9	1436.9	1438.4	1434.4	1431.3	1425.2	1427.7
37.5°	1531.5	1532.6	1535.1	1541.7	1540.7	1535.6	1531.0	1533.1
40°	1636.9	1642.0	1653.1	1657.7	1656.7	1651.6	1645.5	1646.5
42.5°	1755.9	1762.5	1774.2	1781.9	1778.3	1771.2	1763.6	1766.6
45°	1885.7	1895.9	1911.1	1918.7	1914.2	1906.5	1895.9	1901.4
47.5°	2023.1	2043.4	2063.8	2073.9	2072.4	2061.7	2048.0	2049.5
50°	2187.4	2214.4	2240.3	2250.5	2242.9	2226.6	2207.2	2206.7
52.5°	2391.9	2421.0	2442.3	2439.8	2421.0	2395.5	2373.6	2372.6
55°	2647.4	2657.0	2654.0	2632.1	2599.0	2559.4	2531.4	2526.8
57.5°	2956.2	2923.7	2875.8	2809.7	2735.4	2660.1	2609.2	2590.4
60°	3333.8	3186.7	3015.8	2835.6	2671.3	2548.2	2470.3	2423.0
62.5°	3645.7	3219.8	2837.7	2524.8	2268.8	2116.7	2010.3	1944.7
65°	3538.8	2781.7	2228.1	1824.6	1545.3	1388.1	1275.6	1200.8
67.5°	2733.9	1858.7	1293.4	896.5	679.8	575.5	502.7	455.4
70°	1378.4	712.9	432.0	304.8	260.5	242.2	230.0	222.9
72.5°	404.5	270.2	224.4	198.4	182.7	171.5	164.3	160.8
75°	223.9	182.7	161.3	146.5	136.4	128.7	124.2	121.1
77.5°	154.2	132.8	122.1	112.4	104.3	98.7	95.1	92.1
80°	107.9	97.2	92.6	87.5	81.4	76.8	71.7	69.7
82.5°	71.7	67.2	66.1	62.1	58.5	53.4	44.3	41.2
85°	42.2	41.7	41.7	40.2	37.7	33.1	26.5	26.5
87.5°	14.8	15.3	15.8	16.8	16.3	13.7	11.2	10.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)