

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: P198491

Luminaire Tested: **XNV2-AF-02-LED-U-5NQ-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198491  
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-7030-600  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 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: 7230 lumens  
Efficiency: N/A  
Efficacy: 109.5 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

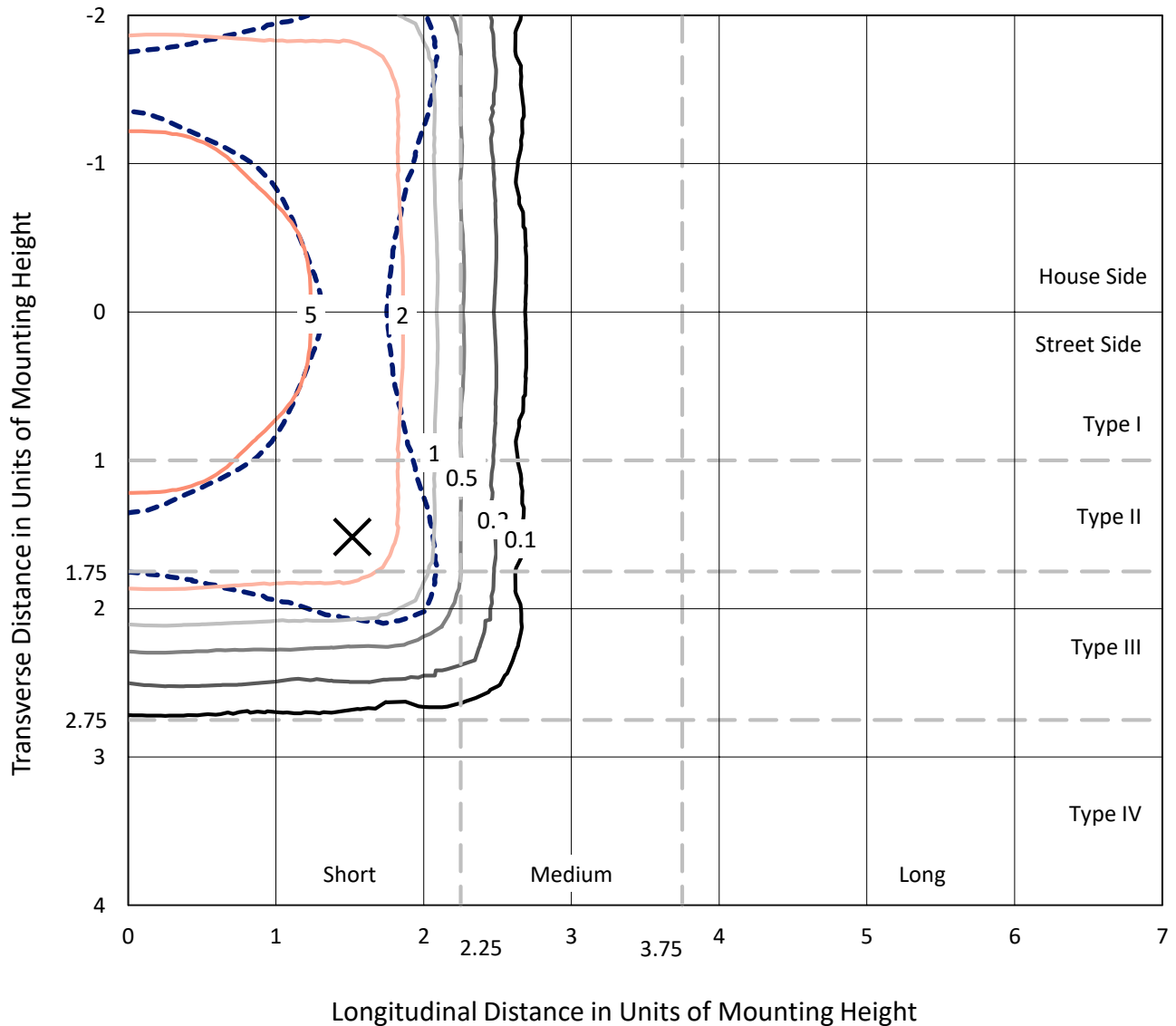
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

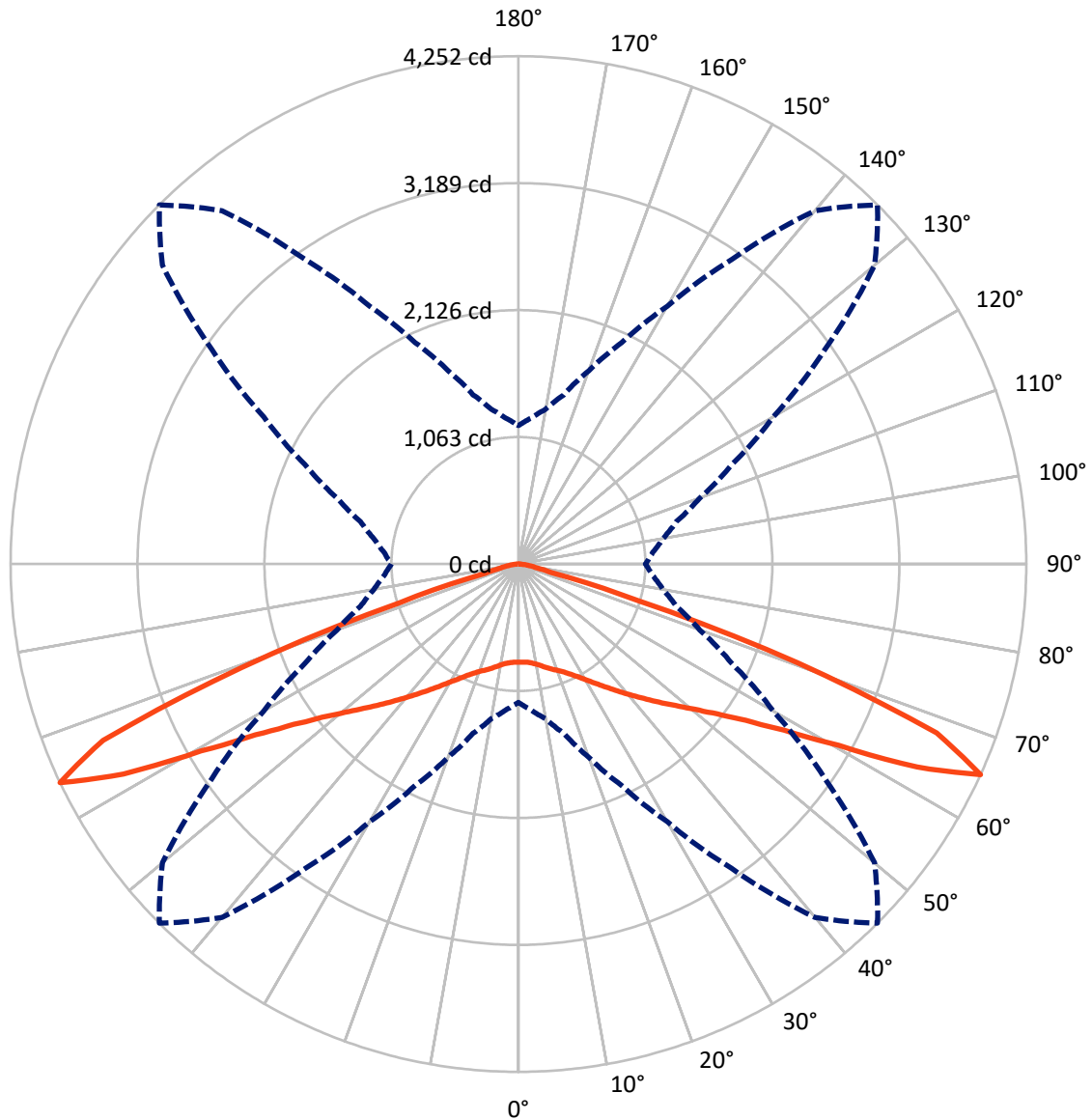
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 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
<b>House Side</b>	Lumens	3615.0	0.0	3615.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3615.0	0.0	3615.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7230.0	0.0	7230.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.1	1.1
10°-20°	256.7	3.6
20°-30°	478.8	6.6
30°-40°	807.4	11.2
40°-50°	1311.4	18.1
50°-60°	2054.8	28.4
60°-70°	1939.6	26.8
70°-80°	261.4	3.6
80°-90°	39.8	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°	7230.0	100.0
0°-180°	7230.0	100.0

**Coefficient of Utilization**



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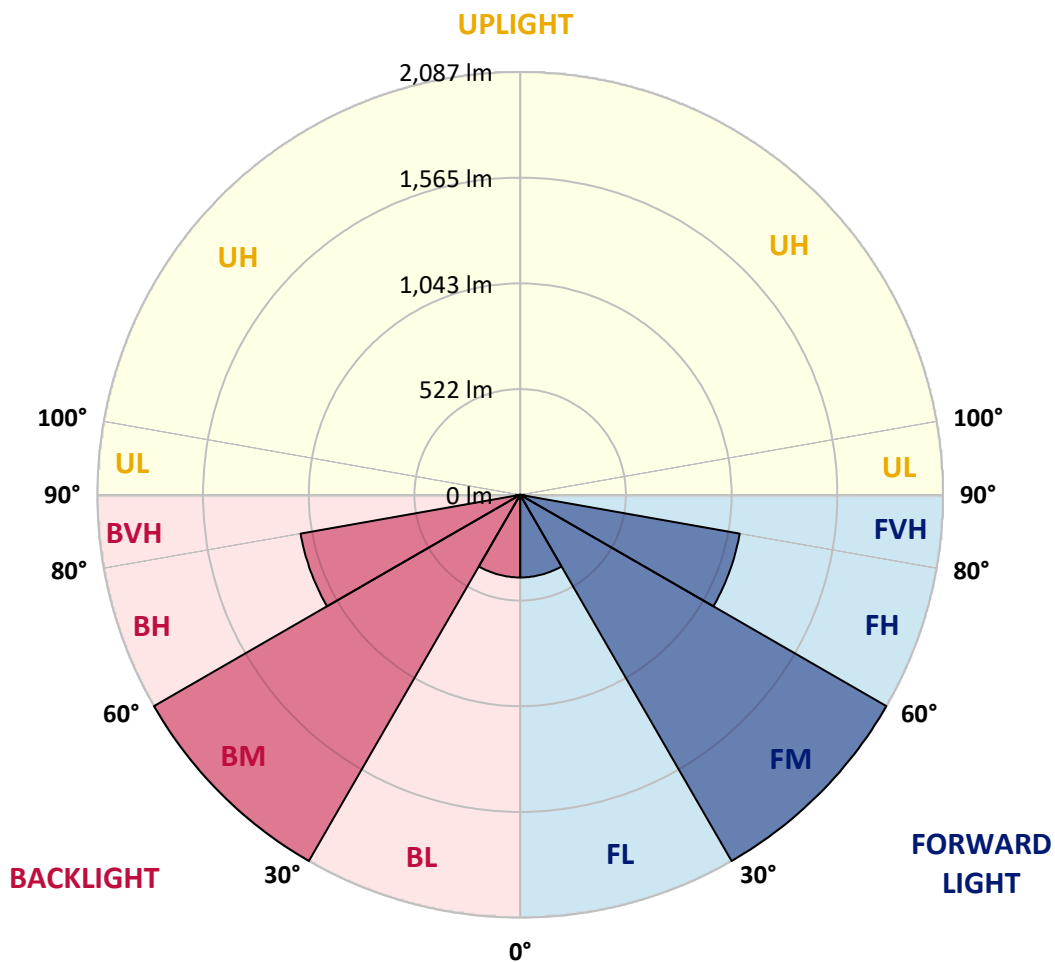
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	407.8	5.6			
FM	(30°-60°)	2086.8	28.9			
FH	(60°-80°)	1100.5	15.2			G1/1800
FVH	(80°-90°)	19.9	0.3			G1/100
BL	(0°-30°)	407.8	5.6	B1/500		
BM	(30°-60°)	2086.8	28.9	B2/2500		
BH	(60°-80°)	1100.5	15.2	B3/2500		G1/1800
BVH	(80°-90°)	19.9	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°	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4
2.5°	829.2	829.2	830.5	830.1	828.3	826.9	825.6	823.8	822.9	822.0	821.5
5°	833.7	833.7	835.0	834.6	833.2	831.4	830.5	829.2	827.8	826.9	827.4
7.5°	844.9	845.4	845.8	845.4	844.0	842.7	840.9	840.4	838.6	837.3	838.2
10°	862.0	862.0	862.5	862.9	862.0	858.9	858.9	858.0	856.2	854.4	854.8
12.5°	881.0	881.0	881.4	881.4	881.4	879.6	880.1	879.6	877.4	876.5	877.4
15°	899.4	899.9	899.9	900.8	900.8	901.2	903.0	903.0	902.1	901.7	901.7
17.5°	921.0	921.9	922.4	923.7	924.2	925.1	926.9	927.3	927.8	926.4	926.9
20°	949.9	950.3	951.7	952.1	953.9	953.9	954.8	954.4	953.5	951.7	951.7
22.5°	982.3	983.2	985.9	985.9	988.1	986.8	987.2	985.9	983.6	982.7	981.8
25°	1024.6	1026.0	1028.2	1027.3	1028.2	1026.0	1026.0	1026.0	1024.6	1023.3	1022.8
27.5°	1078.2	1076.0	1078.2	1076.4	1076.0	1074.2	1074.6	1073.7	1072.4	1071.9	1070.1
30°	1134.1	1131.4	1132.7	1133.2	1132.3	1131.8	1130.0	1128.7	1126.4	1126.9	1125.5
32.5°	1198.0	1195.3	1196.7	1197.1	1196.2	1197.1	1196.7	1193.5	1190.8	1192.6	1192.6
35°	1274.1	1272.3	1275.9	1277.3	1274.6	1273.2	1271.4	1267.8	1263.8	1266.5	1266.9
37.5°	1365.6	1363.3	1366.0	1369.6	1364.7	1362.0	1354.8	1349.4	1346.7	1348.0	1349.8
40°	1460.6	1461.1	1468.7	1469.6	1464.2	1461.1	1453.8	1445.7	1438.1	1438.1	1440.3
42.5°	1560.6	1561.9	1570.9	1574.1	1572.3	1566.4	1556.5	1546.6	1536.7	1538.5	1541.2
45°	1673.6	1671.8	1681.3	1688.9	1687.6	1685.8	1676.3	1658.3	1649.3	1648.9	1653.4
47.5°	1792.5	1796.1	1806.0	1819.1	1818.7	1814.2	1802.0	1785.3	1768.7	1770.0	1775.4
50°	1931.3	1936.2	1952.9	1965.9	1967.7	1966.4	1952.0	1932.6	1909.2	1910.5	1917.7
52.5°	2055.6	2062.8	2082.1	2109.2	2125.8	2133.5	2124.0	2106.0	2082.1	2083.5	2091.1
55°	2168.2	2179.4	2208.2	2245.2	2278.5	2309.6	2323.5	2323.1	2305.5	2309.6	2319.5
57.5°	2238.9	2254.6	2298.3	2357.8	2424.0	2486.6	2540.6	2591.5	2602.8	2623.9	2623.9
60°	2143.8	2180.8	2238.9	2340.7	2470.8	2611.3	2763.6	2911.7	3007.2	3082.4	3041.9
62.5°	1790.3	1844.8	1926.3	2060.5	2263.2	2514.1	2819.9	3164.4	3523.8	3743.6	3582.4
65°	1158.4	1226.9	1315.6	1466.5	1721.8	2044.8	2490.2	3109.5	3861.6	4251.6	3891.3
67.5°	458.9	505.3	559.4	666.6	888.2	1205.2	1705.2	2469.0	3409.9	3777.8	3373.8
70°	219.3	227.0	237.4	260.3	315.7	426.1	685.0	1216.5	2091.1	2478.9	2041.1
72.5°	158.5	159.9	164.8	172.5	188.7	211.2	256.7	372.0	721.1	1048.5	722.0
75°	120.3	122.1	124.8	128.8	137.4	148.2	165.3	198.2	246.8	284.6	246.4
77.5°	91.4	93.2	95.5	99.5	104.0	111.7	118.0	131.1	151.8	159.9	159.0
80°	66.7	69.8	73.4	77.0	80.2	83.8	84.2	90.5	102.2	109.9	107.6
82.5°	42.3	45.0	54.5	58.6	59.0	59.9	59.5	59.9	66.2	71.6	69.8
85°	27.0	28.8	33.8	38.3	37.4	39.2	39.2	38.3	35.6	30.6	36.5
87.5°	13.5	14.0	16.2	20.3	19.4	17.1	16.7	16.7	12.2	10.4	11.3
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°	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4
2.5°	820.2	821.1	819.7	819.7	819.3	820.2	818.8	818.8
5°	826.5	827.8	827.4	827.4	828.3	829.2	828.7	828.3
7.5°	837.7	838.6	839.5	840.0	840.9	840.4	841.3	840.9
10°	854.8	853.9	855.3	853.9	854.4	853.5	853.9	853.9
12.5°	876.5	875.1	874.2	873.3	873.3	871.5	871.5	871.9
15°	901.2	899.0	897.2	896.3	895.4	895.4	894.0	894.9
17.5°	925.5	923.3	920.1	920.1	918.8	917.9	917.0	919.2
20°	951.2	949.0	947.2	946.7	944.0	943.1	943.6	946.3
22.5°	980.9	979.6	979.6	978.7	976.9	975.5	975.5	978.7
25°	1021.0	1018.3	1018.8	1019.2	1018.3	1018.3	1017.4	1019.7
27.5°	1070.1	1067.9	1069.2	1070.1	1069.2	1070.6	1069.2	1071.0
30°	1127.8	1126.4	1127.8	1129.1	1126.9	1126.9	1126.0	1127.3
32.5°	1196.7	1194.9	1195.8	1195.8	1192.6	1189.9	1186.3	1189.0
35°	1272.3	1270.1	1271.9	1273.2	1269.6	1266.9	1261.5	1263.8
37.5°	1355.7	1356.6	1358.8	1364.7	1363.8	1359.3	1355.2	1357.0
40°	1448.9	1453.4	1463.3	1467.4	1466.5	1462.0	1456.5	1457.4
42.5°	1554.3	1560.1	1570.5	1577.2	1574.1	1567.8	1561.0	1563.7
45°	1669.1	1678.1	1691.6	1698.4	1694.4	1687.6	1678.1	1683.1
47.5°	1790.7	1808.7	1826.8	1835.8	1834.4	1825.0	1812.8	1814.2
50°	1936.2	1960.1	1983.0	1992.1	1985.3	1970.9	1953.8	1953.3
52.5°	2117.3	2142.9	2161.9	2159.6	2142.9	2120.4	2101.0	2100.1
55°	2343.4	2351.9	2349.2	2329.8	2300.6	2265.4	2240.7	2236.6
57.5°	2616.7	2587.9	2545.6	2487.0	2421.3	2354.6	2309.6	2292.9
60°	2950.9	2820.8	2669.4	2510.0	2364.5	2255.5	2186.6	2144.7
62.5°	3227.0	2850.0	2511.8	2234.8	2008.3	1873.6	1779.5	1721.4
65°	3132.4	2462.3	1972.2	1615.1	1367.8	1228.7	1129.1	1062.9
67.5°	2419.9	1645.3	1144.9	793.6	601.7	509.4	445.0	403.1
70°	1220.1	631.0	382.4	269.8	230.6	214.4	203.6	197.3
72.5°	358.1	239.2	198.6	175.7	161.7	151.8	145.5	142.3
75°	198.2	161.7	142.8	129.7	120.7	113.9	109.9	107.2
77.5°	136.5	117.6	108.1	99.5	92.3	87.4	84.2	81.5
80°	95.5	86.0	82.0	77.5	72.1	68.0	63.5	61.7
82.5°	63.5	59.5	58.6	54.9	51.8	47.3	39.2	36.5
85°	37.4	36.9	36.9	35.6	33.3	29.3	23.4	23.4
87.5°	13.1	13.5	14.0	14.9	14.4	12.2	9.9	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)