

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: P271302

Luminaire Tested: **XNV2-AF-02-LED-U-RW-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24161)
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-RW-7027-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7053.9 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Medium - 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

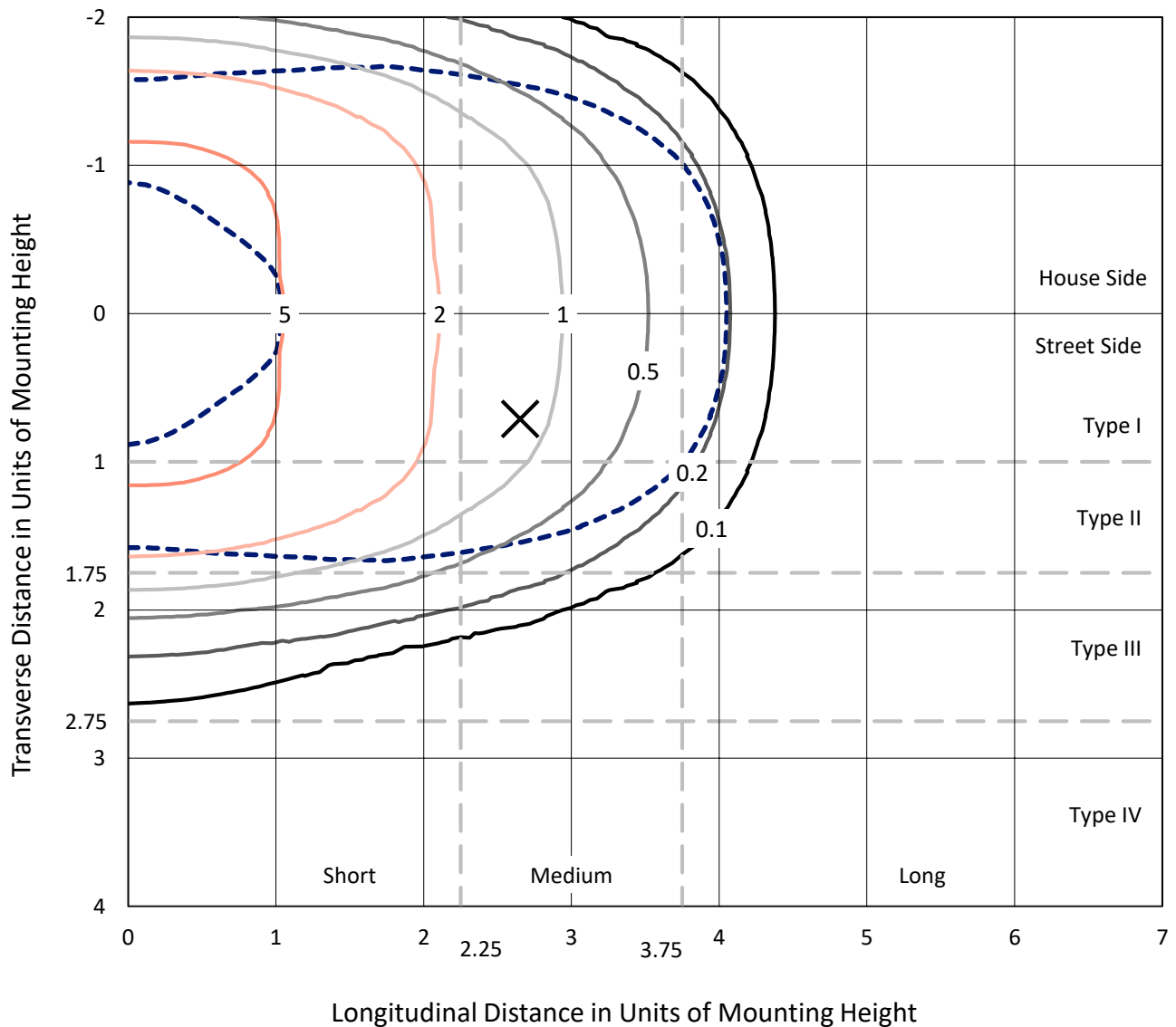


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

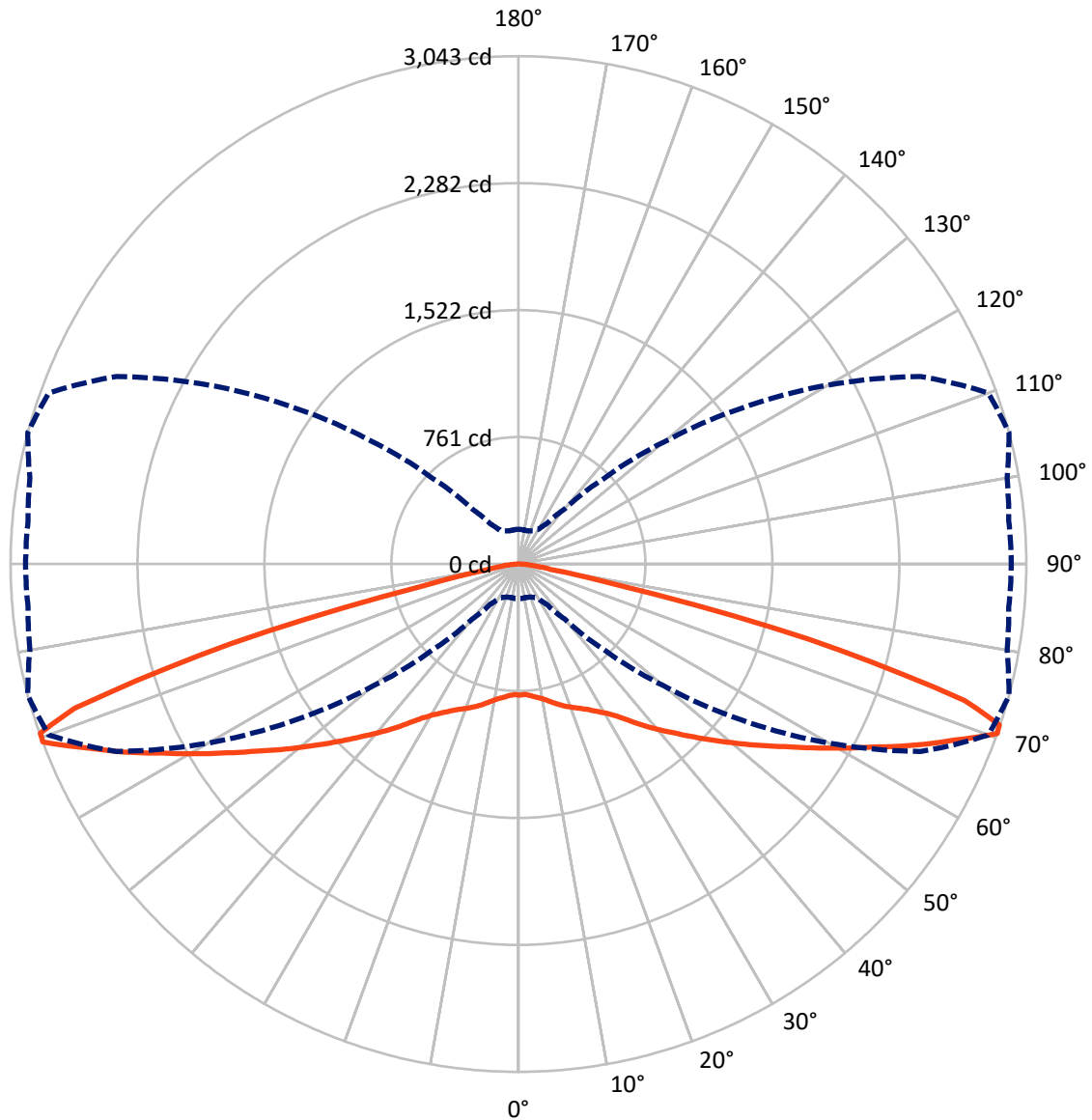


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3526.9	0.0	3526.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3526.9	0.0	3526.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	7053.9	0.0	7053.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	1.1
10°-20°	233.7	3.3
20°-30°	438.9	6.2
30°-40°	773.1	11.0
40°-50°	1281.3	18.2
50°-60°	1782.4	25.3
60°-70°	1682.6	23.9
70°-80°	718.7	10.2
80°-90°	67.9	1.0
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°	7053.9	100.0
0°-180°	7053.9	100.0



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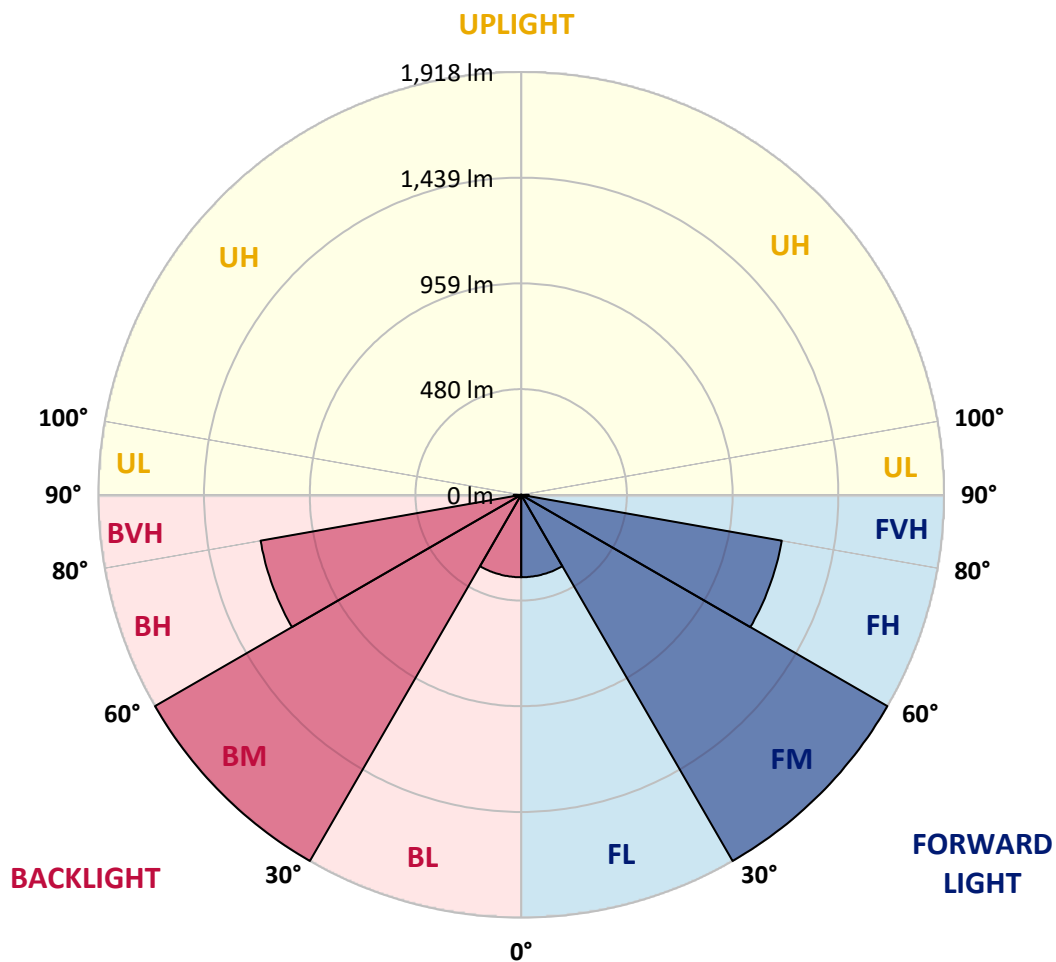
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	374.0	5.3			
FM	(30°-60°)	1918.4	27.2			
FH	(60°-80°)	1200.6	17.0			G1/1800
FVH	(80°-90°)	33.9	0.5			G1/100
BL	(0°-30°)	374.0	5.3	B1/500		
BM	(30°-60°)	1918.4	27.2	B2/2500		
BH	(60°-80°)	1200.6	17.0	B3/2500		G1/1800
BVH	(80°-90°)	33.9	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	785.5	785.5	785.5	785.5	785.5	785.5	785.5	785.5	785.5	785.5	785.5
2.5°	790.4	789.9	790.4	789.0	789.5	789.0	789.0	787.3	787.3	786.3	785.1
5°	781.5	782.5	782.5	782.5	783.7	783.7	785.5	785.9	787.3	788.6	789.5
7.5°	767.0	767.4	768.7	769.6	772.3	775.7	779.3	783.3	786.8	791.2	796.2
10°	754.5	755.5	757.7	759.8	764.7	769.2	775.3	781.5	787.8	795.3	802.7
12.5°	748.0	749.2	752.8	756.4	763.9	769.6	778.0	787.8	796.2	803.3	811.6
15°	748.8	749.2	754.1	759.0	769.6	777.6	789.5	801.0	811.2	819.2	828.9
17.5°	761.7	762.5	767.4	774.5	784.6	794.8	807.7	819.6	833.3	842.5	854.1
20°	786.8	788.2	793.5	801.0	812.1	822.7	836.0	848.3	862.5	873.5	885.0
22.5°	819.6	821.8	827.5	836.9	847.8	860.7	874.4	887.2	900.5	911.5	921.2
25°	863.4	866.0	872.2	881.4	892.5	906.2	920.4	933.6	947.4	955.6	963.6
27.5°	922.1	926.5	933.2	940.6	950.3	965.0	978.3	989.4	1002.6	1011.9	1017.2
30°	1001.3	1007.4	1012.7	1020.7	1027.8	1043.2	1053.8	1062.7	1072.8	1078.1	1079.6
32.5°	1098.1	1103.7	1109.0	1114.8	1124.6	1138.7	1148.9	1153.8	1159.1	1158.2	1153.3
35°	1207.2	1211.6	1214.8	1224.8	1240.7	1250.1	1257.6	1259.5	1260.3	1251.0	1241.6
37.5°	1322.1	1327.4	1330.1	1346.0	1361.0	1371.7	1375.2	1379.2	1376.6	1361.0	1344.3
40°	1446.5	1452.1	1460.0	1473.8	1491.5	1501.6	1506.1	1505.6	1503.5	1485.3	1457.9
42.5°	1568.4	1575.4	1582.1	1606.0	1620.5	1637.8	1639.9	1639.5	1634.6	1614.0	1582.1
45°	1671.8	1680.2	1693.9	1720.4	1743.9	1764.7	1773.1	1776.2	1771.3	1749.2	1713.0
47.5°	1757.2	1763.0	1780.1	1812.4	1842.5	1873.0	1889.8	1901.7	1901.3	1885.4	1846.8
50°	1815.6	1822.1	1843.3	1879.7	1917.2	1952.9	1986.2	2013.1	2025.9	2014.4	1978.5
52.5°	1832.4	1840.6	1868.6	1911.9	1955.6	2003.8	2053.3	2101.0	2129.8	2136.9	2109.0
55°	1761.5	1770.9	1811.5	1871.7	1943.8	2014.9	2089.9	2158.1	2217.3	2244.8	2233.6
57.5°	1555.5	1562.2	1614.0	1691.7	1794.8	1919.8	2046.2	2170.9	2272.6	2343.8	2356.2
60°	1230.1	1238.7	1295.1	1377.5	1494.6	1652.8	1829.7	2033.9	2233.2	2396.4	2477.3
62.5°	830.2	836.0	890.3	965.5	1093.6	1246.0	1443.2	1701.8	1986.2	2277.5	2505.6
65°	435.9	435.9	472.6	525.1	627.2	763.9	965.9	1231.0	1569.2	1933.2	2314.6
67.5°	252.9	252.5	260.8	272.7	305.1	360.3	471.7	666.6	986.7	1410.1	1844.2
70°	208.6	207.2	206.0	206.0	210.8	219.2	240.4	293.9	430.1	727.2	1134.7
71°	199.3	198.4	194.9	193.7	195.8	200.2	209.6	234.3	305.5	496.0	847.5
72.5°	188.4	186.0	180.7	178.7	179.0	180.7	183.4	193.1	214.9	282.0	483.2
75°	171.5	166.1	159.5	156.5	155.1	154.7	154.7	157.4	162.2	170.1	198.0
77.5°	152.1	144.5	137.5	134.3	132.2	130.9	130.0	128.2	127.3	130.9	141.0
80°	128.6	120.7	115.0	113.1	111.7	109.1	105.6	102.0	99.9	101.7	107.8
82.5°	99.4	91.4	92.3	92.9	90.5	86.1	82.6	78.7	74.6	73.8	77.0
85°	79.1	75.2	72.6	78.2	73.4	68.1	63.2	56.6	47.3	38.8	42.4
87.5°	34.0	34.5	49.4	74.6	65.4	52.6	43.7	35.4	22.5	16.8	17.2
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°	785.5	785.5	785.5	785.5	785.5	785.5	785.5	785.5
2.5°	784.6	784.6	783.3	782.5	782.5	782.5	781.5	782.0
5°	789.9	790.8	791.6	791.2	792.6	793.9	793.5	793.1
7.5°	798.9	801.5	804.2	805.4	807.1	809.0	809.5	808.0
10°	807.7	813.0	816.9	820.4	822.7	824.5	825.7	825.4
12.5°	818.6	826.3	833.3	840.4	845.1	847.8	850.4	849.5
15°	836.9	845.1	854.1	863.4	870.8	874.8	878.8	878.0
17.5°	861.6	869.1	876.1	885.4	894.7	899.2	903.5	903.1
20°	892.5	898.2	902.2	907.6	916.5	921.2	925.3	923.8
22.5°	927.9	929.7	930.0	931.8	938.9	944.7	950.0	951.2
25°	966.3	965.0	962.4	960.9	965.9	972.1	978.8	980.5
27.5°	1014.0	1009.7	1003.0	997.7	999.0	1007.0	1014.5	1016.3
30°	1074.2	1064.0	1049.8	1039.7	1037.9	1046.3	1054.3	1056.9
32.5°	1142.7	1129.0	1109.5	1094.0	1087.5	1094.9	1102.0	1106.1
35°	1224.0	1208.9	1185.6	1165.7	1155.1	1159.9	1172.3	1176.7
37.5°	1320.4	1299.6	1273.5	1248.4	1230.7	1231.5	1244.8	1250.1
40°	1427.0	1396.9	1363.7	1332.4	1306.8	1305.0	1316.8	1320.9
42.5°	1537.9	1499.5	1460.6	1419.4	1387.6	1381.9	1397.4	1397.8
45°	1657.3	1607.7	1559.5	1511.8	1478.7	1468.5	1483.6	1485.3
47.5°	1784.6	1722.7	1665.6	1614.0	1578.1	1562.2	1576.7	1579.4
50°	1917.2	1853.1	1786.8	1729.2	1687.2	1667.9	1685.1	1686.8
52.5°	2048.4	1987.9	1922.1	1856.2	1805.4	1783.2	1803.5	1809.7
55°	2180.6	2122.2	2060.4	1994.5	1930.5	1911.0	1933.2	1939.7
57.5°	2318.0	2261.9	2205.8	2139.6	2077.2	2047.5	2071.4	2080.7
60°	2469.7	2420.3	2367.2	2300.4	2238.9	2204.5	2224.8	2235.4
62.5°	2618.6	2608.5	2560.3	2490.9	2413.1	2378.6	2395.9	2403.4
65°	2631.0	2796.0	2793.8	2724.7	2616.0	2558.2	2563.0	2566.5
67.5°	2296.4	2674.9	2916.6	2938.3	2817.2	2726.5	2715.9	2718.1
70°	1625.8	2145.2	2658.4	2995.3	3043.1	2972.9	2949.9	2953.4
71°	1302.7	1840.6	2405.7	2858.8	3039.5	3019.3	3006.4	3015.7
72.5°	831.6	1356.3	1906.2	2448.2	2795.0	2894.6	2909.2	2914.9
75°	301.9	583.4	987.5	1415.0	1793.3	2053.7	2197.0	2208.5
77.5°	162.2	209.0	323.1	482.7	606.4	672.8	680.7	683.9
80°	119.4	138.3	158.2	180.7	194.9	197.5	192.7	182.5
82.5°	84.4	95.5	103.5	111.4	117.1	112.3	93.2	71.1
85°	49.0	53.9	58.4	62.3	63.2	59.6	39.3	32.2
87.5°	19.5	21.2	20.8	23.4	22.5	20.8	15.5	13.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)