

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: P198686

Luminaire Tested: **XNV-AF-01-LED-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198686
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: XNV-AF-01-LED-U-RW
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6322.9 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Medium - Full 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

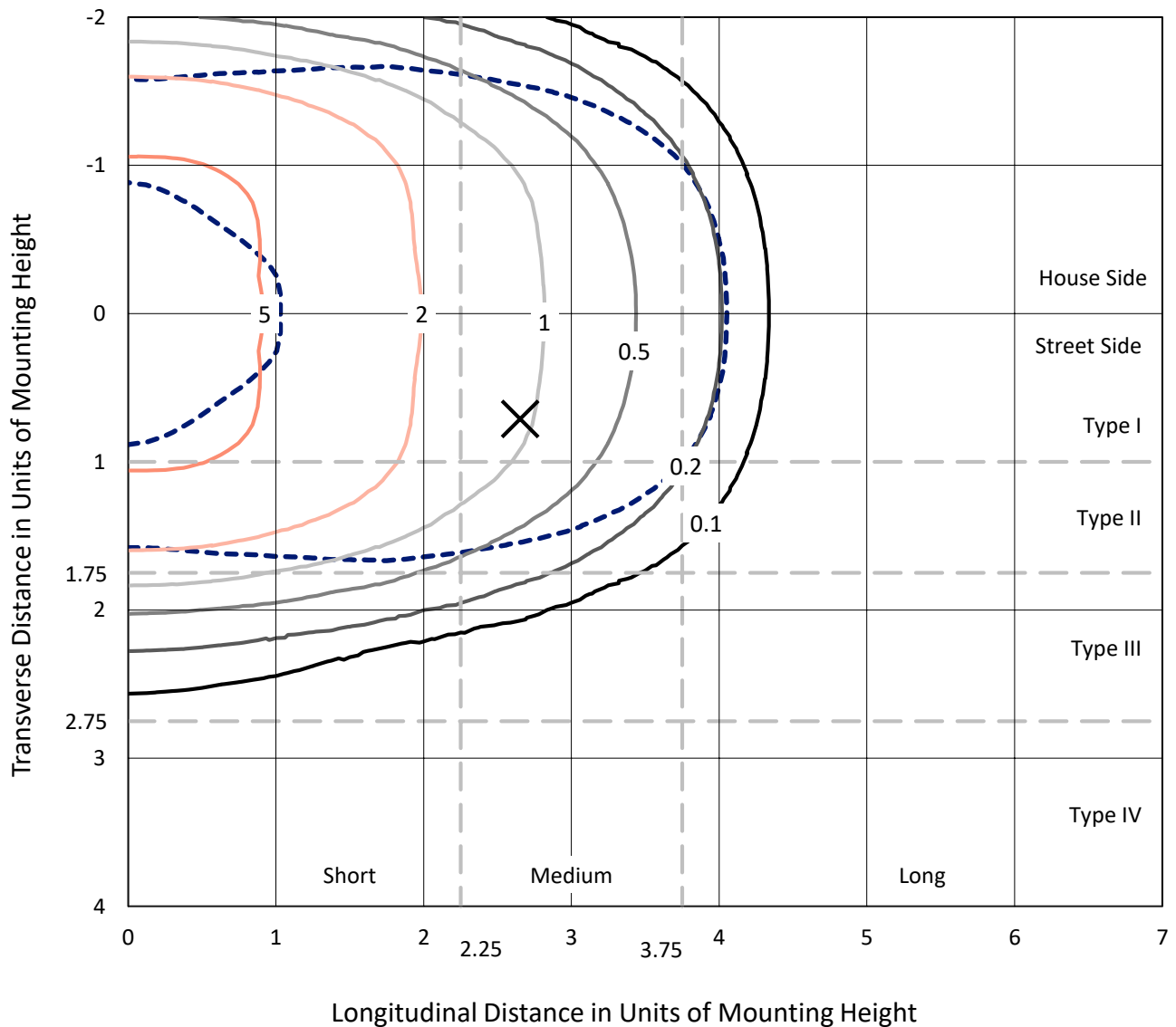


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

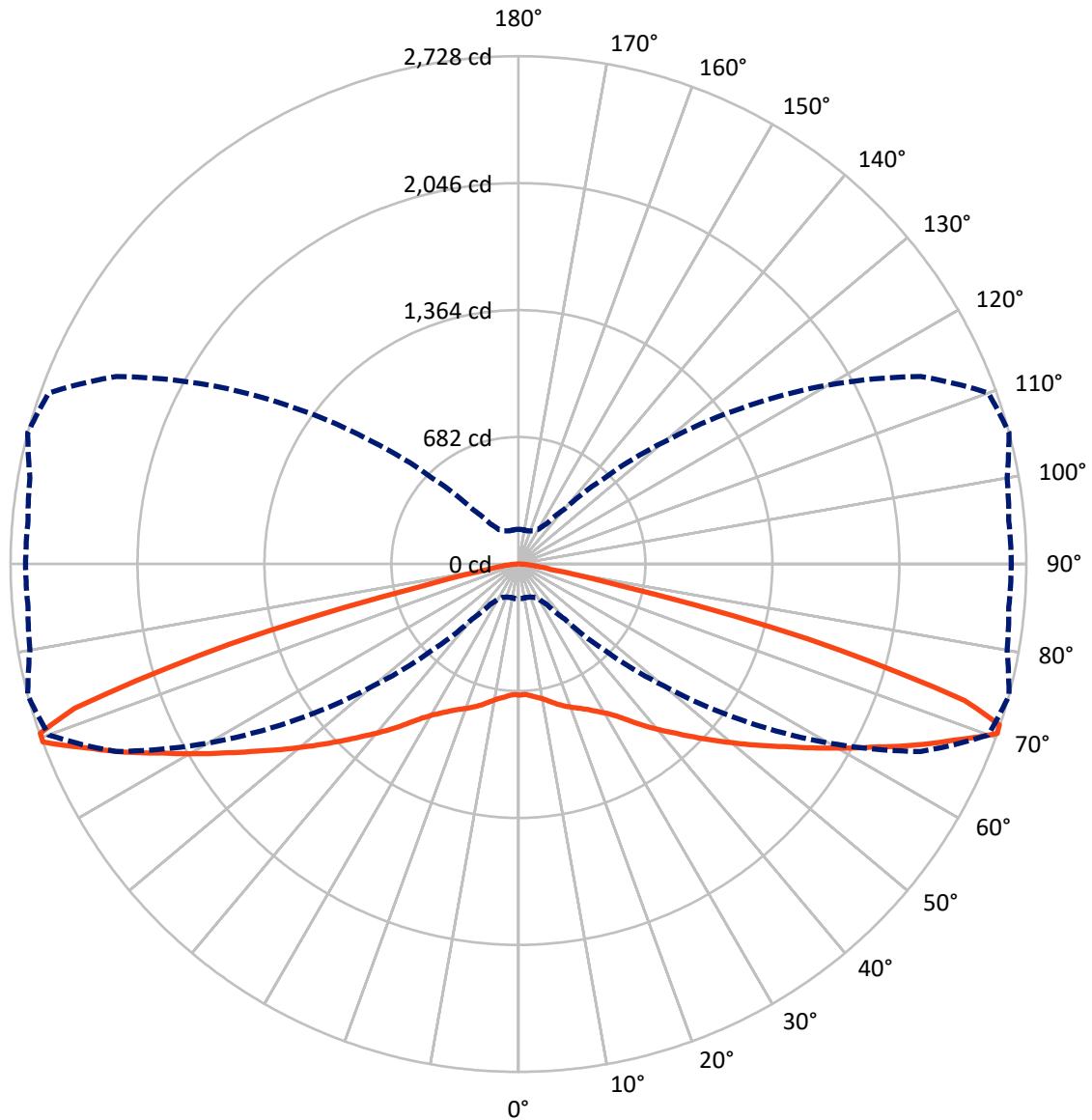


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Medium - Full Cutoff

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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	3161.4	0.0	3161.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3161.4	0.0	3161.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	6322.9	0.0	6322.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	1.1
10°-20°	209.5	3.3
20°-30°	393.4	6.2
30°-40°	693.0	11.0
40°-50°	1148.5	18.2
50°-60°	1597.7	25.3
60°-70°	1508.3	23.9
70°-80°	644.2	10.2
80°-90°	60.9	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°	6322.9	100.0
0°-180°	6322.9	100.0

Coefficient of Utilization



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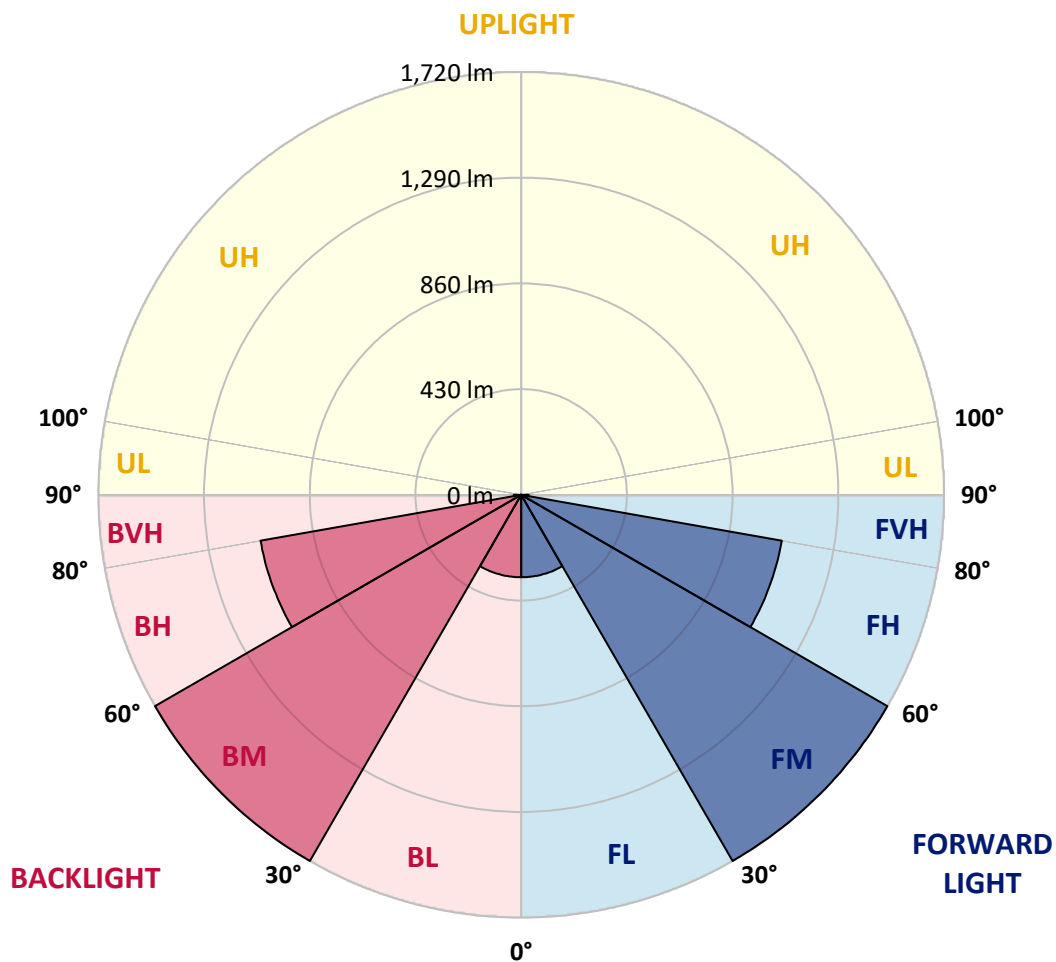
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	335.2	5.3			
FM	(30°-60°)	1719.6	27.2			
FH	(60°-80°)	1076.2	17.0			G1/1800
FVH	(80°-90°)	30.4	0.5			G1/100
BL	(0°-30°)	335.2	5.3	B1/500		
BM	(30°-60°)	1719.6	27.2	B2/2500		
BH	(60°-80°)	1076.2	17.0	B3/2500		G1/1800
BVH	(80°-90°)	30.4	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°	704.1	704.1	704.1	704.1	704.1	704.1	704.1	704.1	704.1	704.1	704.1
2.5°	708.5	708.1	708.5	707.3	707.7	707.3	707.3	705.7	705.7	704.9	703.7
5°	700.5	701.3	701.3	701.3	702.6	702.6	704.1	704.5	705.7	706.9	707.7
7.5°	687.4	687.8	689.1	689.9	692.2	695.4	698.6	702.2	705.3	709.3	713.6
10°	676.4	677.2	679.1	681.1	685.5	689.5	695.0	700.5	706.1	712.8	719.5
12.5°	670.4	671.7	674.8	677.9	684.7	689.9	697.3	706.1	713.6	720.0	727.5
15°	671.3	671.7	676.0	680.4	689.9	696.9	707.7	718.0	727.1	734.3	743.0
17.5°	682.7	683.5	687.8	694.2	703.3	712.4	723.9	734.6	746.9	755.2	765.6
20°	705.3	706.4	711.3	718.0	727.9	737.4	749.3	760.4	773.0	783.0	793.3
22.5°	734.6	736.6	741.7	750.0	760.0	771.5	783.8	795.2	807.1	817.0	825.7
25°	773.9	776.2	781.7	790.1	800.0	812.3	825.0	836.9	849.2	856.6	863.8
27.5°	826.5	830.5	836.5	843.2	851.9	865.0	876.9	886.8	898.7	906.9	911.8
30°	897.4	903.1	907.8	914.9	921.3	935.1	944.6	952.6	961.7	966.4	967.6
32.5°	984.3	989.4	994.2	999.3	1008.0	1020.7	1029.8	1034.2	1038.9	1038.1	1033.8
35°	1082.1	1086.1	1088.8	1097.9	1112.3	1120.5	1127.3	1128.9	1129.6	1121.4	1113.1
37.5°	1185.2	1189.9	1192.2	1206.6	1220.0	1229.5	1232.7	1236.2	1233.9	1220.0	1204.9
40°	1296.5	1301.6	1308.8	1321.0	1336.9	1346.0	1350.0	1349.6	1347.6	1331.4	1306.8
42.5°	1405.8	1412.2	1418.1	1439.5	1452.6	1468.0	1470.1	1469.7	1465.3	1446.7	1418.1
45°	1498.5	1506.1	1518.4	1542.2	1563.2	1581.8	1589.3	1592.1	1587.7	1567.9	1535.4
47.5°	1575.0	1580.2	1595.6	1624.5	1651.6	1678.9	1693.9	1704.6	1704.2	1689.9	1655.4
50°	1627.3	1633.2	1652.3	1684.8	1718.5	1750.6	1780.2	1804.5	1815.9	1805.6	1773.6
52.5°	1642.4	1649.9	1674.9	1713.7	1752.9	1796.1	1840.5	1883.4	1909.0	1915.4	1890.4
55°	1579.0	1587.3	1623.7	1677.6	1742.3	1806.0	1873.4	1934.4	1987.5	2012.0	2002.2
57.5°	1394.4	1400.3	1446.7	1516.4	1608.7	1720.8	1834.2	1946.0	2037.0	2100.8	2112.0
60°	1102.7	1110.2	1160.9	1234.7	1339.7	1481.5	1640.0	1823.1	2001.8	2148.0	2220.5
62.5°	744.1	749.3	798.0	865.4	980.3	1117.0	1293.7	1525.5	1780.2	2041.4	2245.9
65°	390.7	390.7	423.6	470.8	562.2	684.7	865.8	1103.6	1406.7	1732.8	2074.6
67.5°	226.7	226.3	233.7	244.5	273.4	322.9	422.8	597.5	884.4	1264.0	1653.1
70°	187.0	185.9	184.6	184.6	189.0	196.5	215.5	263.5	385.6	651.8	1017.1
71°	178.7	177.9	174.7	173.6	175.5	179.5	187.8	210.0	273.8	444.6	759.5
72.5°	168.8	166.8	162.0	160.1	160.5	162.0	164.4	173.2	192.6	252.8	433.1
75°	153.7	148.9	143.0	140.2	139.1	138.7	138.7	141.1	145.5	152.5	177.5
77.5°	136.3	129.6	123.3	120.5	118.5	117.3	116.5	114.9	114.2	117.3	126.4
80°	115.3	108.1	103.0	101.5	100.2	97.9	94.7	91.6	89.5	91.1	96.7
82.5°	89.2	82.0	82.9	83.2	81.2	77.2	74.1	70.5	67.0	66.2	68.9
85°	70.9	67.3	65.0	70.2	65.8	61.1	56.7	50.7	42.4	34.9	38.1
87.5°	30.5	30.9	44.4	67.0	58.6	47.2	39.2	31.7	20.3	15.0	15.4
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°	704.1	704.1	704.1	704.1	704.1	704.1	704.1	704.1
2.5°	703.3	703.3	702.2	701.3	701.3	701.3	700.5	700.9
5°	708.1	708.9	709.6	709.3	710.4	711.7	711.3	710.8
7.5°	716.0	718.4	720.8	721.9	723.5	725.1	725.5	724.4
10°	723.9	728.6	732.2	735.4	737.4	739.0	740.2	739.8
12.5°	733.9	740.6	746.9	753.2	757.6	760.0	762.4	761.6
15°	750.0	757.6	765.6	773.9	780.6	784.2	787.7	787.0
17.5°	772.2	779.0	785.3	793.7	802.0	806.0	809.9	809.5
20°	800.0	805.2	808.7	813.5	821.4	825.7	829.3	828.2
22.5°	831.7	833.3	833.7	835.2	841.6	846.8	851.5	852.7
25°	866.1	865.0	862.7	861.4	865.8	871.3	877.3	878.8
27.5°	909.0	905.0	899.1	894.3	895.5	902.7	909.4	910.9
30°	962.9	953.7	941.0	931.9	930.4	937.8	945.0	947.4
32.5°	1024.3	1012.0	994.5	980.7	974.8	981.5	987.9	991.3
35°	1097.2	1083.7	1062.7	1044.8	1035.3	1039.7	1050.8	1054.8
37.5°	1183.6	1164.9	1141.5	1119.0	1103.2	1103.9	1115.8	1120.5
40°	1279.1	1252.1	1222.4	1194.3	1171.3	1169.6	1180.4	1184.0
42.5°	1378.5	1344.1	1309.2	1272.3	1243.8	1238.6	1252.5	1252.9
45°	1485.5	1441.1	1398.0	1355.1	1325.4	1316.3	1329.7	1331.4
47.5°	1599.6	1544.1	1493.0	1446.7	1414.5	1400.3	1413.4	1415.8
50°	1718.5	1661.1	1601.6	1550.1	1512.4	1495.0	1510.5	1512.0
52.5°	1836.2	1781.9	1722.9	1663.8	1618.2	1598.5	1616.7	1622.2
55°	1954.7	1902.4	1846.8	1787.8	1730.3	1712.9	1732.8	1738.7
57.5°	2077.8	2027.6	1977.3	1917.8	1861.9	1835.4	1856.8	1865.0
60°	2213.8	2169.4	2121.8	2062.1	2006.9	1976.0	1994.2	2003.8
62.5°	2347.3	2338.2	2295.0	2232.8	2163.0	2132.1	2147.6	2154.3
65°	2358.4	2506.2	2504.2	2442.4	2344.9	2293.0	2297.3	2300.5
67.5°	2058.5	2397.6	2614.4	2633.8	2525.3	2444.0	2434.5	2436.5
70°	1457.4	1922.9	2383.0	2684.9	2727.7	2664.7	2644.1	2647.3
71°	1167.7	1649.9	2156.3	2562.5	2724.5	2706.3	2694.8	2703.1
72.5°	745.3	1215.7	1708.5	2194.3	2505.4	2594.5	2607.6	2612.8
75°	270.7	523.0	885.2	1268.4	1607.6	1840.9	1969.3	1979.6
77.5°	145.5	187.4	289.7	432.7	543.6	603.0	610.2	613.0
80°	107.0	124.0	141.9	162.0	174.7	177.1	172.8	163.7
82.5°	75.7	85.6	92.7	99.8	105.0	100.7	83.6	63.8
85°	44.0	48.4	52.3	55.9	56.7	53.5	35.3	28.9
87.5°	17.4	19.0	18.6	21.0	20.3	18.6	13.9	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)