

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: P271221

Luminaire Tested: **XNV-AF-01-LED-U-RW-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271221
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-7027
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5369.7 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B2 - U0 - G1

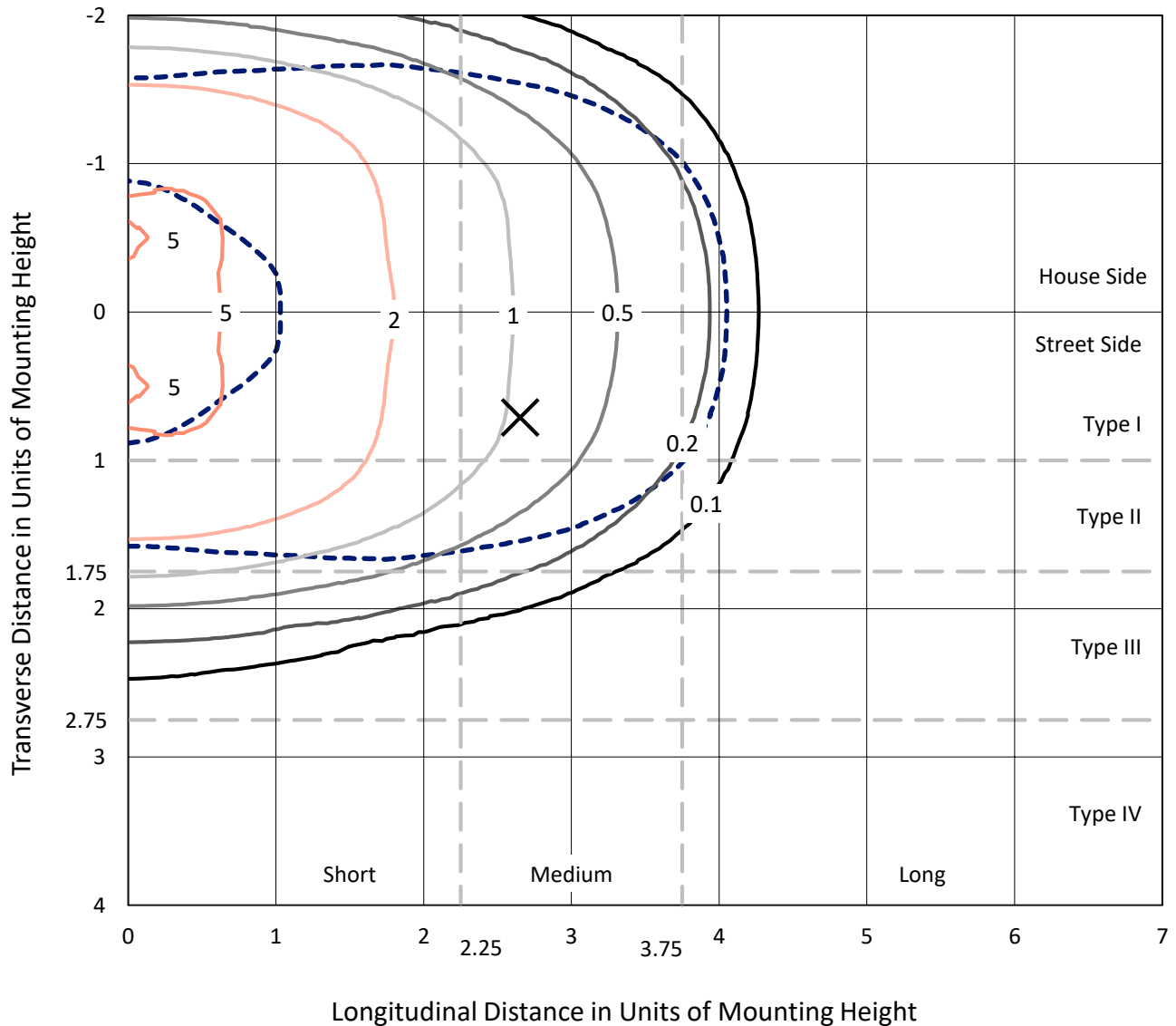
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

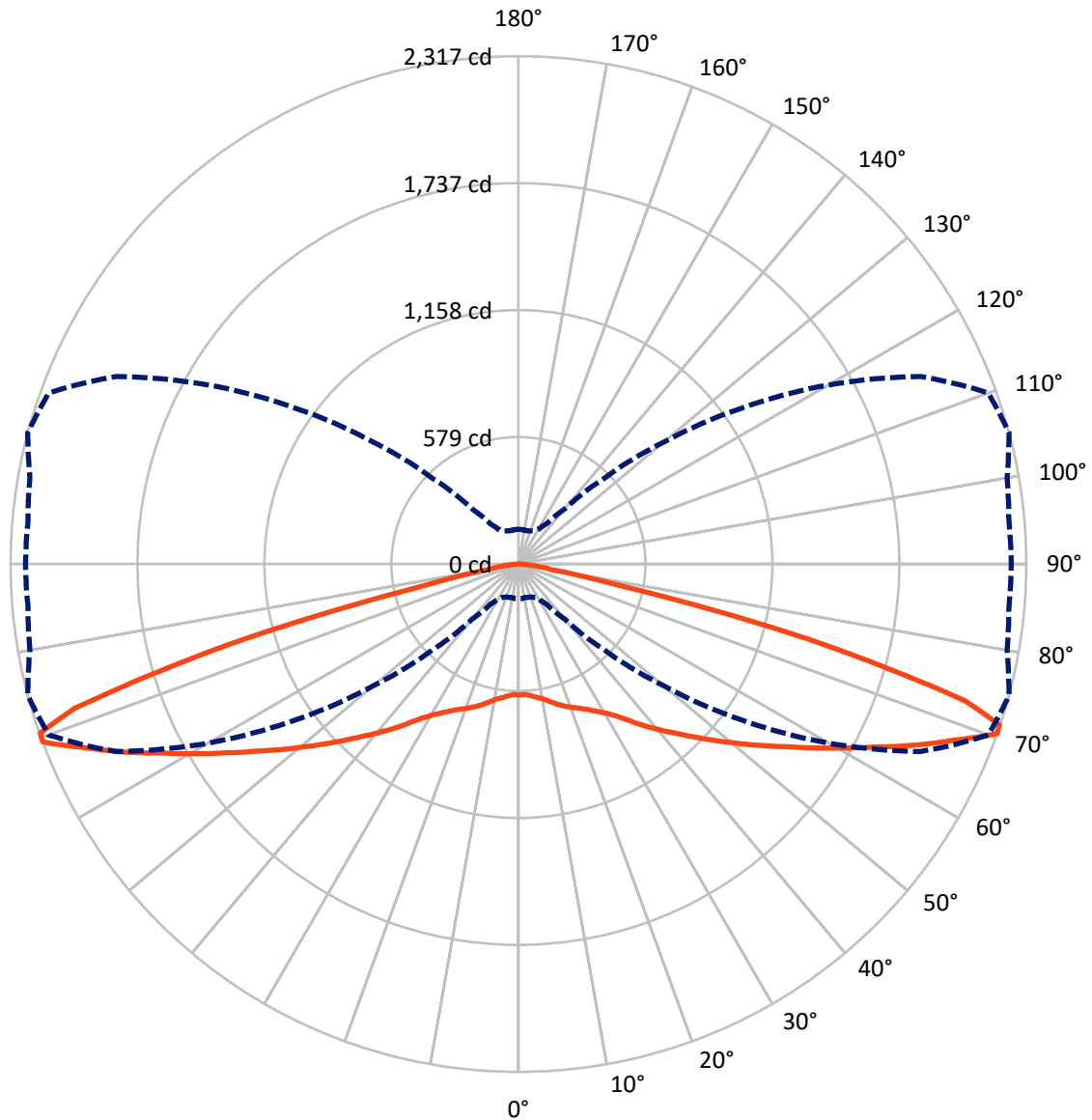
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 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	2684.8	0.0	2684.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2684.8	0.0	2684.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	5369.7	0.0	5369.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	1.1
10°-20°	177.9	3.3
20°-30°	334.1	6.2
30°-40°	588.5	11.0
40°-50°	975.3	18.2
50°-60°	1356.8	25.3
60°-70°	1280.9	23.9
70°-80°	547.1	10.2
80°-90°	51.7	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°	5369.7	100.0
0°-180°	5369.7	100.0



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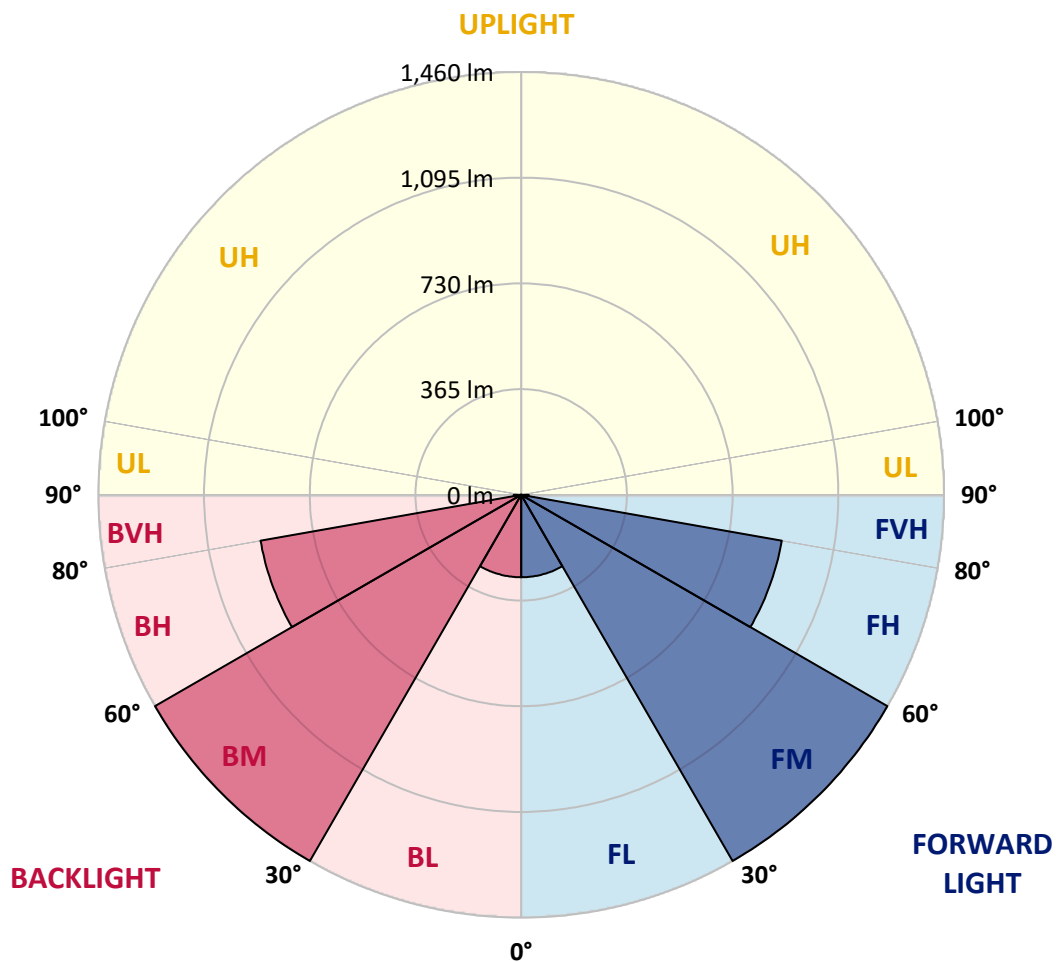
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	284.7	5.3			
FM	(30°-60°)	1460.3	27.2			
FH	(60°-80°)	914.0	17.0			G1/1800
FVH	(80°-90°)	25.9	0.5			G1/100
BL	(0°-30°)	284.7	5.3	B1/500		
BM	(30°-60°)	1460.3	27.2	B2/2500		
BH	(60°-80°)	914.0	17.0	B2/1000		G1/1800
BVH	(80°-90°)	25.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	597.9	597.9	597.9	597.9	597.9	597.9	597.9	597.9	597.9	597.9	597.9
2.5°	601.7	601.3	601.7	600.6	601.0	600.6	600.6	599.3	599.3	598.6	597.6
5°	594.9	595.5	595.5	595.5	596.7	596.7	597.9	598.4	599.3	600.2	601.0
7.5°	583.8	584.2	585.2	585.9	587.9	590.5	593.2	596.3	599.0	602.4	606.0
10°	574.3	575.0	576.7	578.5	582.1	585.5	590.2	594.9	599.7	605.4	611.0
12.5°	569.3	570.3	573.1	575.8	581.5	585.9	592.3	599.7	606.0	611.4	617.9
15°	570.1	570.3	574.0	577.8	585.9	592.0	601.0	609.7	617.5	623.6	630.9
17.5°	579.8	580.5	584.2	589.6	597.4	605.0	614.8	623.9	634.4	641.4	650.2
20°	599.0	600.0	604.0	609.7	618.2	626.2	636.3	645.7	656.5	664.9	673.6
22.5°	623.9	625.6	629.9	637.0	645.4	655.1	665.6	675.3	685.4	693.9	701.2
25°	657.2	659.1	663.8	670.9	679.4	689.8	700.6	710.6	721.1	727.4	733.6
27.5°	701.9	705.3	710.4	716.0	723.5	734.5	744.7	753.0	763.2	770.2	774.2
30°	762.2	767.0	770.9	776.9	782.3	794.1	802.2	809.0	816.6	820.7	821.7
32.5°	835.9	840.3	844.2	848.7	856.1	866.9	874.6	878.3	882.3	881.6	878.0
35°	919.0	922.4	924.7	932.4	944.6	951.7	957.4	958.8	959.4	952.4	945.2
37.5°	1006.6	1010.6	1012.5	1024.6	1036.0	1044.2	1046.9	1049.8	1047.9	1036.0	1023.3
40°	1101.1	1105.5	1111.5	1122.0	1135.4	1143.2	1146.4	1146.1	1144.4	1130.6	1109.8
42.5°	1193.8	1199.2	1204.4	1222.6	1233.6	1246.8	1248.5	1248.0	1244.4	1228.6	1204.4
45°	1272.7	1279.0	1289.4	1309.6	1327.5	1343.3	1349.8	1352.0	1348.4	1331.6	1304.0
47.5°	1337.5	1342.0	1355.2	1379.6	1402.6	1425.8	1438.5	1447.7	1447.3	1435.2	1405.8
50°	1382.0	1387.1	1403.2	1430.8	1459.4	1486.7	1511.8	1532.5	1542.2	1533.4	1506.2
52.5°	1394.8	1401.1	1422.3	1455.3	1488.8	1525.4	1563.1	1599.4	1621.4	1626.7	1605.5
55°	1341.0	1348.0	1379.0	1424.7	1479.6	1533.8	1591.0	1642.8	1687.8	1708.8	1700.3
57.5°	1184.1	1189.1	1228.6	1287.8	1366.2	1461.5	1557.8	1652.5	1730.0	1784.2	1793.6
60°	936.6	943.0	986.0	1048.5	1137.8	1258.2	1392.8	1548.3	1700.0	1824.2	1885.7
62.5°	632.0	636.3	677.7	735.0	832.5	948.6	1098.6	1295.5	1511.8	1733.6	1907.3
65°	331.8	331.8	359.7	399.7	477.4	581.5	735.3	937.1	1194.6	1471.6	1761.9
67.5°	192.4	192.1	198.5	207.6	232.2	274.3	359.1	507.5	751.1	1073.5	1404.0
70°	158.8	157.8	156.8	156.8	160.4	166.9	183.1	223.8	327.4	553.5	863.8
71°	151.8	151.1	148.4	147.4	149.1	152.4	159.4	178.4	232.5	377.6	645.1
72.5°	143.4	141.7	137.6	136.0	136.4	137.6	139.6	147.1	163.5	214.7	367.8
75°	130.6	126.5	121.5	119.1	118.0	117.8	117.8	119.8	123.4	129.5	150.7
77.5°	115.7	110.0	104.7	102.2	100.6	99.6	99.0	97.6	96.8	99.6	107.3
80°	97.9	91.8	87.5	86.1	85.1	83.2	80.4	77.8	76.0	77.4	82.1
82.5°	75.6	69.7	70.3	70.6	69.0	65.7	62.9	59.8	56.9	56.2	58.6
85°	60.2	57.2	55.2	59.6	55.9	51.8	48.1	43.1	36.0	29.6	32.2
87.5°	26.0	26.2	37.6	56.9	49.8	40.1	33.2	26.9	17.2	12.8	13.1
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°	597.9	597.9	597.9	597.9	597.9	597.9	597.9	597.9
2.5°	597.4	597.4	596.3	595.5	595.5	595.5	594.9	595.2
5°	601.3	602.0	602.7	602.4	603.3	604.4	604.0	603.8
7.5°	608.1	610.0	612.0	613.2	614.4	615.8	616.1	615.1
10°	614.8	618.8	621.8	624.5	626.2	627.6	628.5	628.3
12.5°	623.2	629.0	634.4	639.8	643.4	645.4	647.4	646.8
15°	637.0	643.4	650.2	657.2	662.9	666.0	669.0	668.2
17.5°	655.9	661.5	666.9	674.0	681.0	684.5	687.8	687.5
20°	679.4	683.8	686.8	690.8	697.5	701.2	704.4	703.4
22.5°	706.2	707.7	708.0	709.3	714.7	719.2	723.1	724.2
25°	735.6	734.5	732.6	731.6	735.3	739.9	745.1	746.3
27.5°	772.0	768.6	763.5	759.4	760.4	766.6	772.3	773.6
30°	817.6	809.9	799.2	791.4	790.1	796.4	802.5	804.6
32.5°	869.9	859.4	844.6	832.9	827.8	833.4	838.8	841.9
35°	931.8	920.4	902.4	887.3	879.4	882.9	892.3	895.8
37.5°	1005.2	989.4	969.5	950.2	936.8	937.6	947.6	951.7
40°	1086.2	1063.4	1038.1	1014.2	994.8	993.3	1002.5	1005.5
42.5°	1170.8	1141.4	1111.8	1080.5	1056.2	1051.9	1063.8	1064.0
45°	1261.6	1223.9	1187.2	1150.9	1125.5	1117.9	1129.3	1130.6
47.5°	1358.4	1311.3	1268.0	1228.6	1201.4	1189.1	1200.3	1202.3
50°	1459.4	1410.6	1360.2	1316.3	1284.4	1269.7	1282.8	1284.0
52.5°	1559.4	1513.3	1463.1	1412.9	1374.2	1357.5	1372.9	1377.6
55°	1660.0	1615.5	1568.4	1518.3	1469.4	1454.7	1471.6	1476.5
57.5°	1764.6	1722.0	1679.1	1628.6	1581.2	1558.6	1576.9	1583.9
60°	1880.1	1842.3	1802.0	1751.2	1704.4	1678.2	1693.7	1701.7
62.5°	1993.5	1985.8	1949.1	1896.2	1836.9	1810.8	1823.9	1829.6
65°	2003.0	2128.4	2126.6	2074.1	1991.5	1947.3	1951.1	1953.8
67.5°	1748.1	2036.2	2220.3	2236.7	2144.6	2075.5	2067.4	2069.2
70°	1237.7	1633.1	2023.7	2280.2	2316.5	2263.0	2245.6	2248.2
71°	991.6	1401.1	1831.3	2176.1	2313.9	2298.4	2288.5	2295.6
72.5°	632.9	1032.4	1451.0	1863.5	2127.7	2203.5	2214.5	2219.0
75°	229.8	444.2	751.7	1077.2	1365.2	1563.4	1672.5	1681.2
77.5°	123.4	159.2	246.0	367.4	461.6	512.2	518.2	520.6
80°	90.9	105.3	120.5	137.6	148.4	150.5	146.8	139.0
82.5°	64.3	72.8	78.7	84.8	89.2	85.5	71.0	54.2
85°	37.4	41.1	44.5	47.4	48.1	45.5	30.0	24.6
87.5°	14.8	16.2	15.8	17.8	17.2	15.8	11.8	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)