

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: P199141

Luminaire Tested: **XNV2-AF-02-LED-U-5WQ-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199141  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24131)  
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-5WQ-8030-800  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8271 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 85  
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

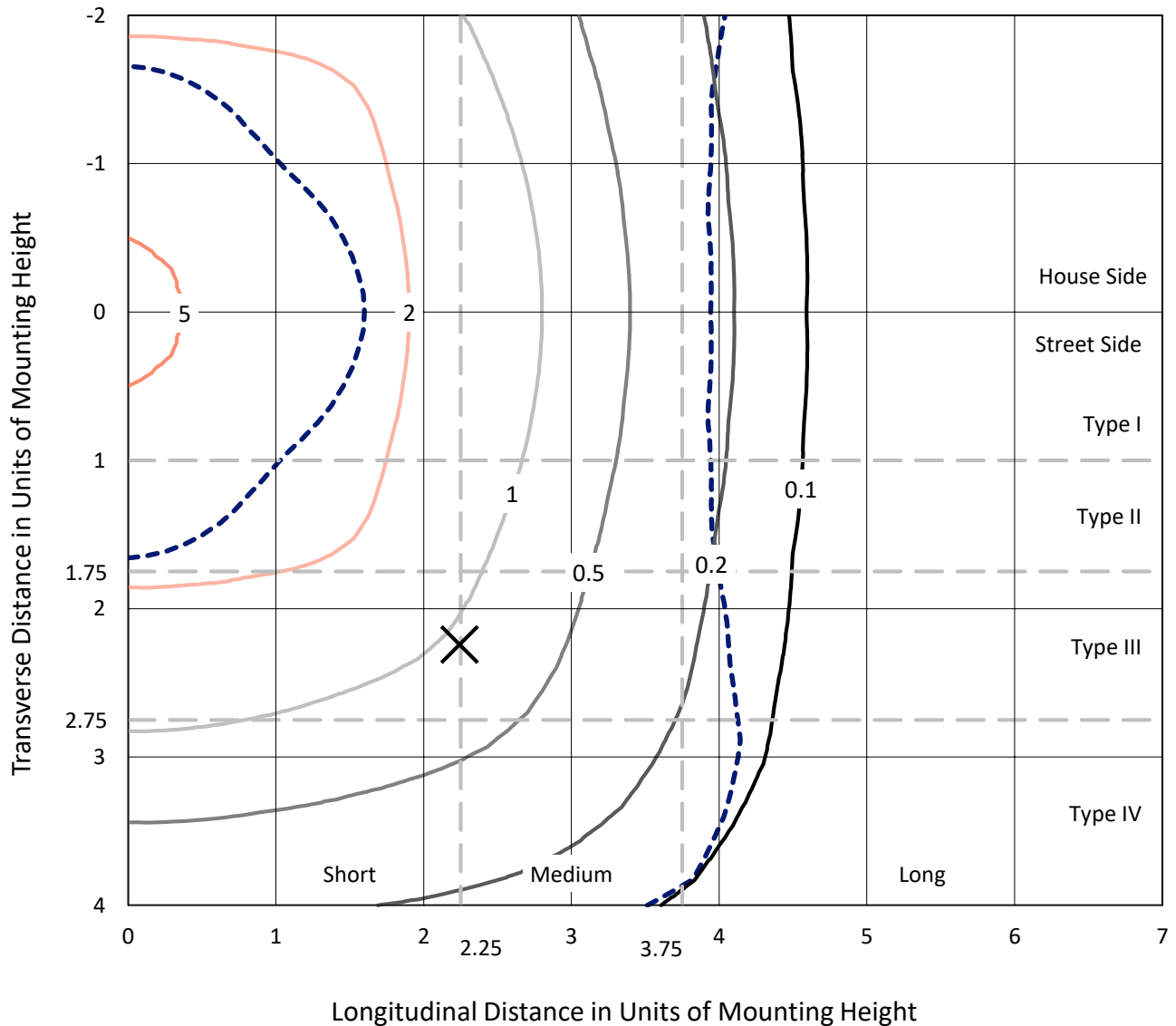


REPORT NUMBER: P199141

CATALOG NUMBER: XNV2-AF-02-LED-U-5WQ-8030-800

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

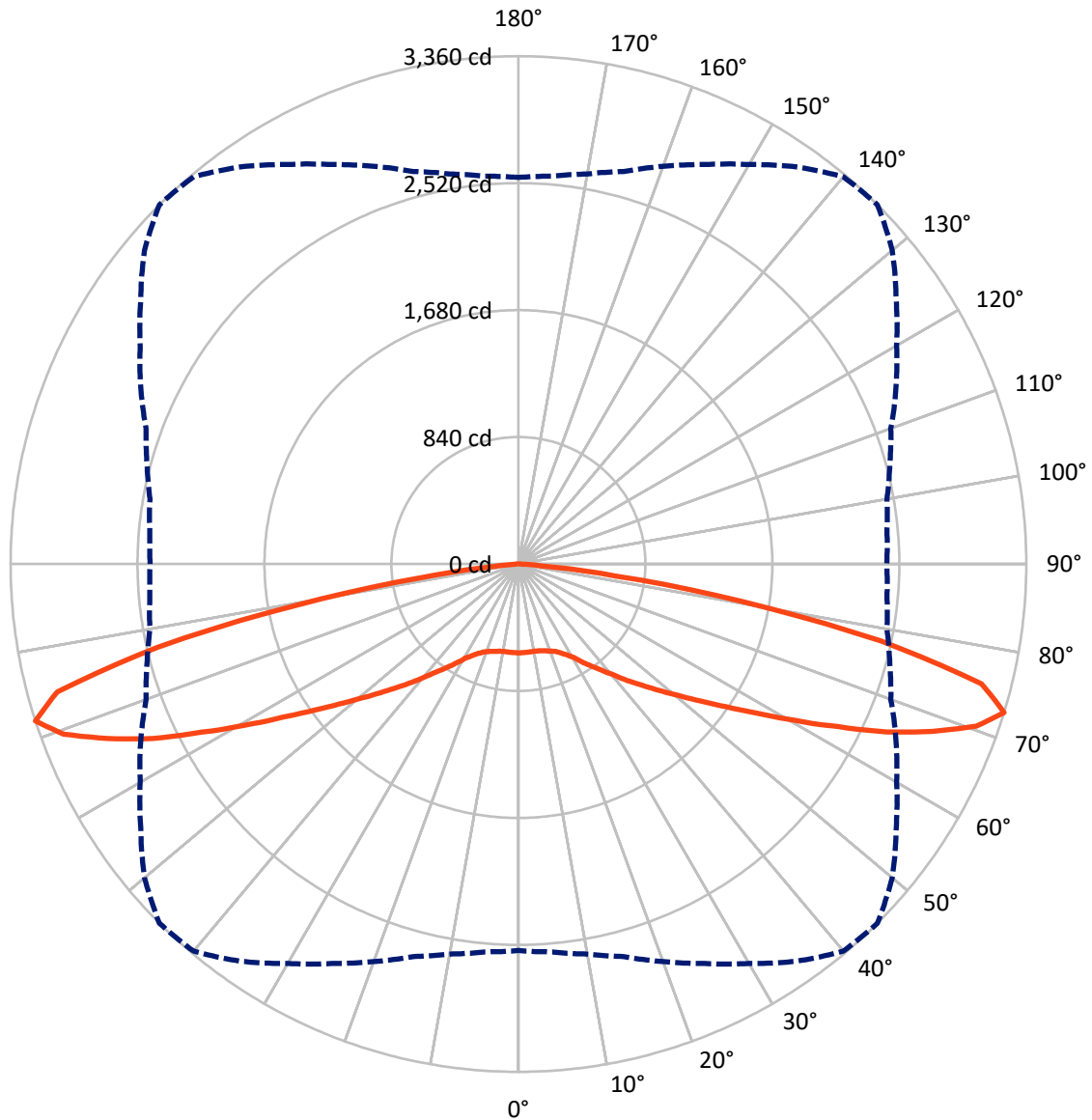


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc  
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P199141

CATALOG NUMBER: XNV2-AF-02-LED-U-5WQ-8030-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P199141

CATALOG NUMBER: XNV2-AF-02-LED-U-5WQ-8030-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4135.5	0.0	4135.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4135.5	0.0	4135.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8271.0	0.0	8271.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.1	0.7
10°-20°	169.9	2.1
20°-30°	306.6	3.7
30°-40°	523.0	6.3
40°-50°	890.5	10.8
50°-60°	1433.1	17.3
60°-70°	2383.3	28.8
70°-80°	2305.5	27.9
80°-90°	202.9	2.5
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°	8271.0	100.0
0°-180°	8271.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P199141

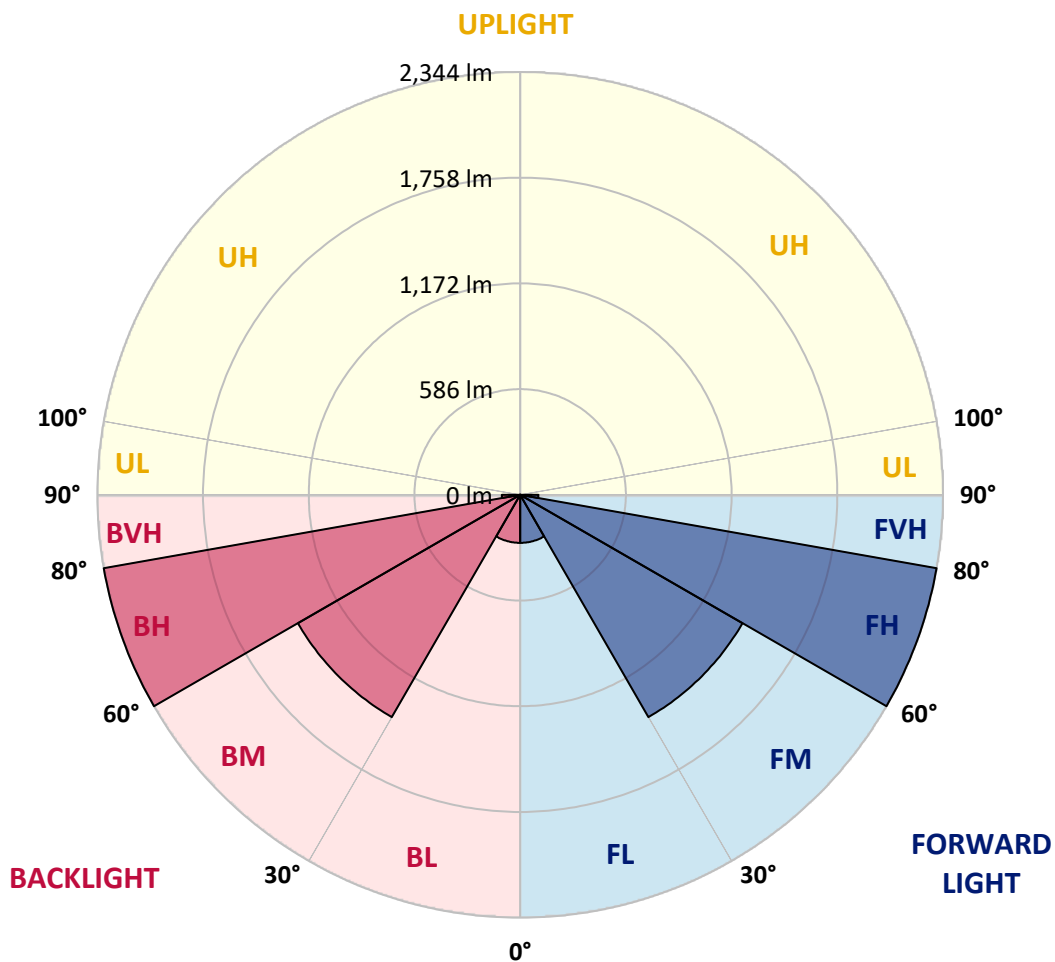
CATALOG NUMBER: XNV2-AF-02-LED-U-5WQ-8030-800

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	266.3	3.2			
FM (30°-60°)	1423.3	17.2			
FH (60°-80°)	2344.4	28.3			G2/5000
FVH (80°-90°)	101.5	1.2			G2/225
BL (0°-30°)	266.3	3.2	B1/500		
BM (30°-60°)	1423.3	17.2	B2/2500		
BH (60°-80°)	2344.4	28.3	B3/2500		G2/5000
BVH (80°-90°)	101.5	1.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





REPORT NUMBER: P199141

CATALOG NUMBER: XNV2-AF-02-LED-U-5WQ-8030-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
2.5°	592.6	592.6	593.1	592.6	591.6	591.1	589.5	588.5	587.5	587.0	586.0
5°	593.1	593.1	593.6	593.1	592.1	591.1	590.0	588.5	587.5	586.5	586.0
7.5°	595.1	595.6	596.2	595.6	593.6	592.6	591.1	589.5	587.5	586.5	585.5
10°	599.2	599.2	599.2	598.7	597.2	595.1	593.1	591.6	589.0	586.5	585.0
12.5°	602.3	602.8	602.8	601.8	599.7	597.2	595.1	593.6	591.6	589.5	588.0
15°	606.8	606.8	606.3	604.3	601.2	599.2	598.2	597.7	597.2	596.2	594.6
17.5°	616.0	615.5	614.0	610.9	607.4	605.8	604.8	604.8	604.8	604.3	603.3
20°	629.2	629.2	627.2	622.1	619.1	617.5	616.0	616.0	616.0	614.5	613.0
22.5°	650.6	651.1	648.1	642.0	637.9	634.8	632.8	631.3	629.8	628.7	626.2
25°	679.6	679.1	675.6	667.9	664.9	661.8	657.8	655.2	653.2	651.6	648.6
27.5°	710.2	709.7	705.6	699.0	697.0	692.4	689.3	685.8	683.2	680.7	677.6
30°	749.4	746.8	743.8	738.7	737.7	734.1	730.0	725.0	720.9	716.8	713.2
32.5°	784.5	784.5	779.9	777.4	779.4	777.9	778.4	775.4	772.8	771.3	767.7
35°	833.4	833.4	831.4	828.3	828.8	825.2	824.7	825.2	827.3	827.3	823.2
37.5°	898.6	899.6	893.0	891.9	889.4	884.3	881.8	882.8	887.4	889.9	884.3
40°	979.5	981.5	979.5	972.9	969.8	961.2	956.1	956.1	959.6	962.2	960.2
42.5°	1059.4	1063.0	1059.4	1054.3	1051.8	1045.2	1042.6	1044.7	1049.2	1052.3	1049.2
45°	1148.5	1151.1	1146.5	1140.4	1137.3	1133.8	1132.2	1133.8	1138.8	1141.9	1140.9
47.5°	1236.1	1239.6	1234.0	1231.5	1231.5	1227.9	1232.0	1236.1	1240.7	1247.8	1244.7
50°	1321.6	1326.2	1322.6	1323.1	1327.2	1333.8	1341.5	1349.6	1357.8	1365.4	1366.4
52.5°	1398.0	1405.1	1405.6	1414.8	1427.5	1437.7	1459.1	1476.9	1496.2	1502.9	1499.8
55°	1478.4	1488.1	1500.8	1515.1	1535.4	1556.3	1592.5	1624.5	1650.0	1665.8	1663.2
57.5°	1593.5	1603.1	1616.4	1639.8	1670.3	1698.9	1748.2	1798.1	1836.8	1860.7	1849.0
60°	1742.6	1752.8	1770.1	1795.1	1834.8	1873.5	1941.2	2013.0	2073.0	2100.5	2079.1
62.5°	1940.2	1949.8	1961.0	1994.1	2038.4	2088.3	2173.3	2265.5	2341.8	2368.3	2338.3
65°	2221.7	2233.4	2237.0	2264.0	2307.2	2353.6	2445.2	2549.0	2636.1	2679.4	2619.3
67.5°	2538.9	2543.4	2557.7	2589.3	2633.6	2675.3	2747.6	2845.8	2929.3	2953.3	2889.1
70°	2724.7	2733.8	2758.8	2802.6	2855.5	2921.2	3000.1	3106.0	3200.7	3211.9	3130.4
72.5°	2556.7	2575.5	2619.8	2688.0	2799.0	2915.6	3051.5	3207.8	3343.7	3359.5	3228.7
75°	2050.6	2072.0	2125.0	2199.8	2331.2	2504.2	2700.8	2935.4	3139.1	3165.1	2992.0
77.5°	1093.0	1119.5	1196.4	1297.2	1484.5	1713.6	1950.3	2218.1	2391.2	2449.8	2325.0
80°	275.4	289.7	326.8	385.9	512.7	697.5	901.6	1189.8	1404.6	1495.7	1404.6
82.5°	106.9	117.6	127.8	134.9	147.1	172.6	238.3	388.4	523.4	644.5	558.0
85°	41.2	43.8	63.1	71.8	71.8	78.9	90.6	106.9	132.4	144.6	121.2
87.5°	16.3	17.8	21.9	33.6	34.6	30.5	32.6	36.7	28.0	23.4	26.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P199141

CATALOG NUMBER: XNV2-AF-02-LED-U-5WQ-8030-800

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
2.5°	585.5	585.0	583.9	584.4	583.9	583.9	583.9	583.9
5°	585.0	585.0	583.9	583.9	583.9	584.4	583.9	583.9
7.5°	584.4	583.9	582.9	582.4	582.4	581.9	581.9	581.9
10°	583.4	582.4	581.4	580.9	580.9	579.9	579.9	579.9
12.5°	586.0	584.4	583.4	582.9	582.9	582.9	583.4	583.4
15°	593.1	590.0	588.5	588.0	588.5	589.5	590.0	590.6
17.5°	600.7	597.7	595.1	594.1	594.6	596.2	597.7	598.7
20°	610.4	607.9	604.8	603.8	603.8	605.8	606.8	608.4
22.5°	624.2	622.1	619.6	618.0	617.0	619.6	621.1	622.1
25°	646.0	644.0	642.0	640.4	639.9	642.5	643.5	644.0
27.5°	675.1	673.0	672.0	671.5	670.0	671.0	672.5	672.0
30°	712.7	714.3	712.7	712.7	710.2	711.2	710.2	709.2
32.5°	763.1	761.6	757.0	754.0	750.4	750.4	748.9	747.4
35°	813.5	808.4	805.9	807.4	805.9	806.9	804.4	801.8
37.5°	873.1	870.0	869.5	874.1	873.1	874.1	874.1	870.6
40°	952.0	950.0	953.5	961.2	964.2	963.7	964.7	960.2
42.5°	1042.6	1039.1	1040.6	1047.2	1050.8	1051.8	1051.3	1047.2
45°	1133.2	1134.3	1134.3	1141.4	1145.0	1147.0	1143.4	1141.9
47.5°	1235.6	1237.1	1233.5	1238.1	1239.1	1242.7	1239.6	1237.1
50°	1353.7	1348.1	1339.9	1341.5	1341.5	1340.5	1336.9	1333.8
52.5°	1485.5	1472.8	1457.5	1452.5	1446.9	1441.3	1434.1	1428.5
55°	1635.7	1613.8	1586.3	1573.6	1562.9	1550.2	1533.9	1528.3
57.5°	1809.8	1772.2	1735.5	1712.6	1685.1	1668.3	1647.4	1646.4
60°	2016.5	1965.6	1901.0	1866.9	1839.4	1819.5	1803.7	1797.6
62.5°	2255.3	2167.7	2098.0	2061.3	2029.3	2017.0	1997.2	1999.7
65°	2500.2	2411.1	2343.4	2313.8	2283.8	2275.7	2257.3	2264.0
67.5°	2765.4	2692.1	2617.8	2590.3	2562.8	2554.6	2535.8	2541.4
70°	3003.2	2910.0	2825.5	2771.5	2724.7	2687.0	2663.1	2653.4
72.5°	3050.5	2889.1	2756.2	2621.3	2543.4	2475.2	2447.2	2436.5
75°	2741.0	2490.5	2301.1	2142.8	2055.2	1955.9	1945.3	1930.5
77.5°	2132.1	1847.0	1617.9	1414.3	1296.7	1175.5	1133.8	1102.2
80°	1271.7	977.5	757.5	531.0	433.2	348.7	327.9	306.0
82.5°	455.1	291.7	196.5	153.2	136.9	126.3	118.1	107.4
85°	110.0	92.7	87.6	79.4	78.4	66.7	47.3	42.3
87.5°	35.1	32.1	32.6	31.1	32.6	24.4	19.9	17.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)