

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: P198488

Luminaire Tested: **XNV-AF-01-LED-U-5MQ-7030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198488  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24129)  
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-5MQ-7030-1200  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6255 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' 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 (A<sub>in</sub>): 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

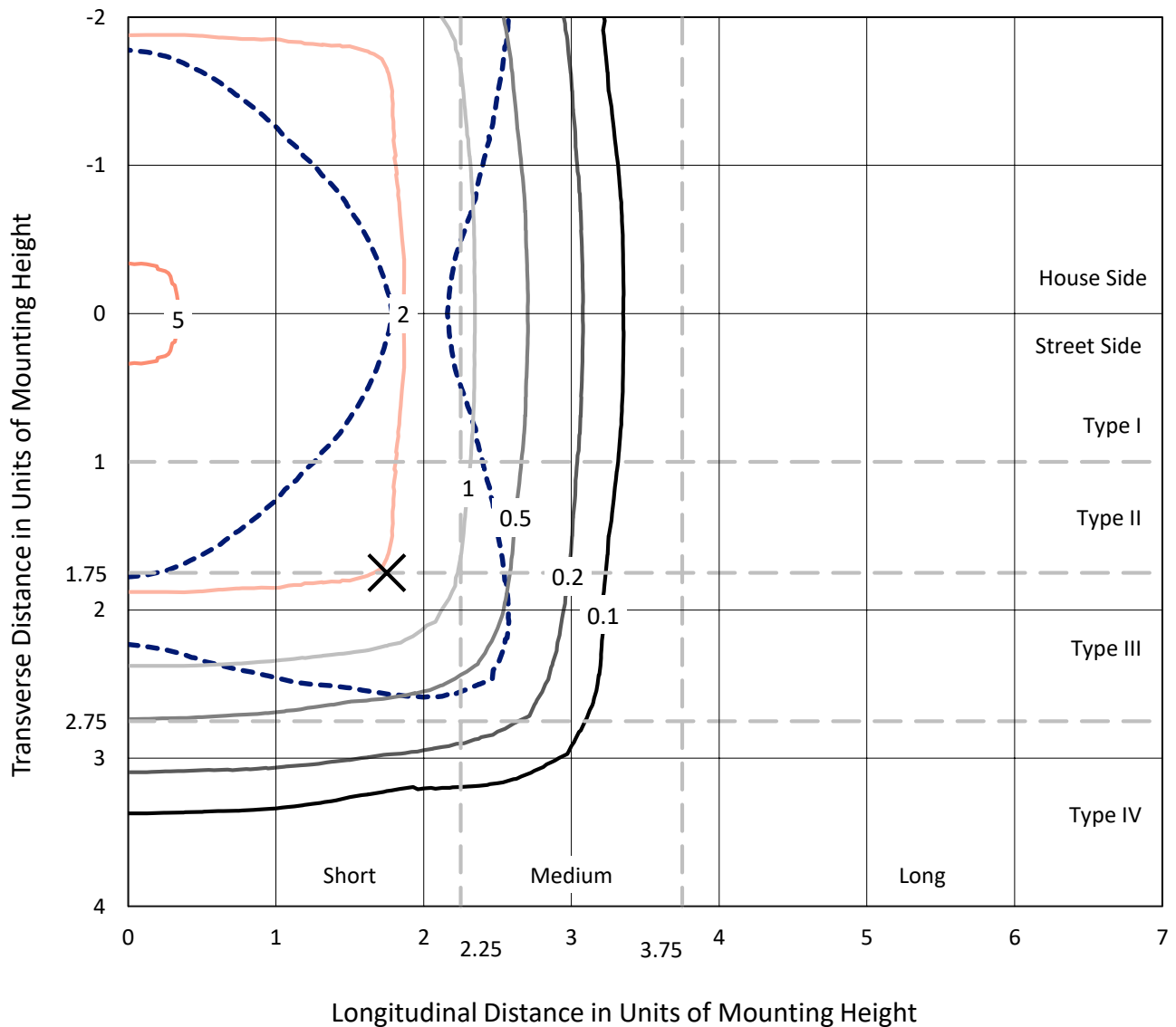


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### Iso-Footcandle Lines of Horizontal Illumination

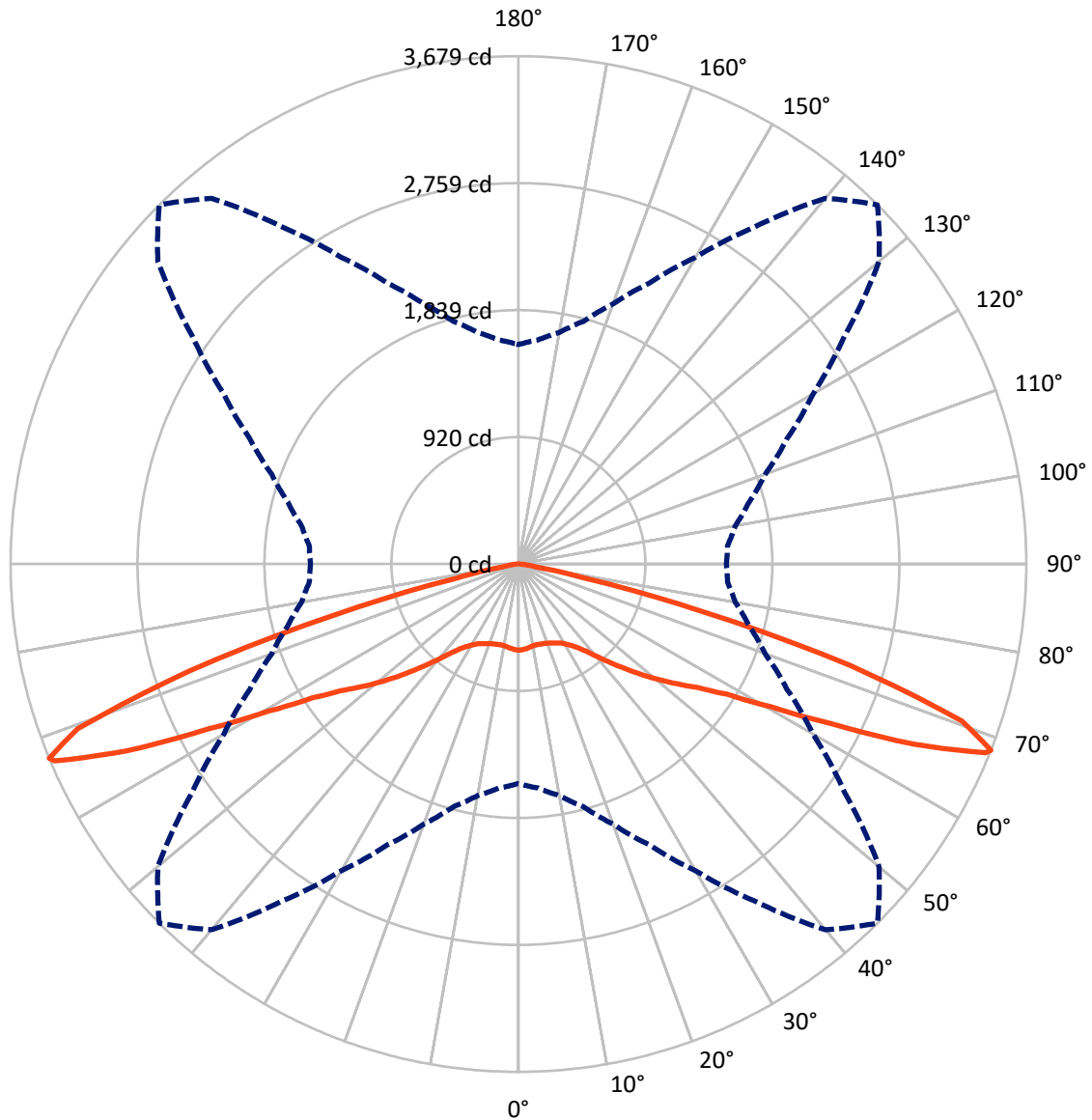
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3127.5	0.0	3127.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3127.5	0.0	3127.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6255.0	0.0	6255.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.4	0.9
10°-20°	169.3	2.7
20°-30°	287.9	4.6
30°-40°	471.1	7.5
40°-50°	841.9	13.5
50°-60°	1421.9	22.7
60°-70°	2204.8	35.2
70°-80°	758.1	12.1
80°-90°	41.7	0.7
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°	6255.0	100.0
0°-180°	6255.0	100.0



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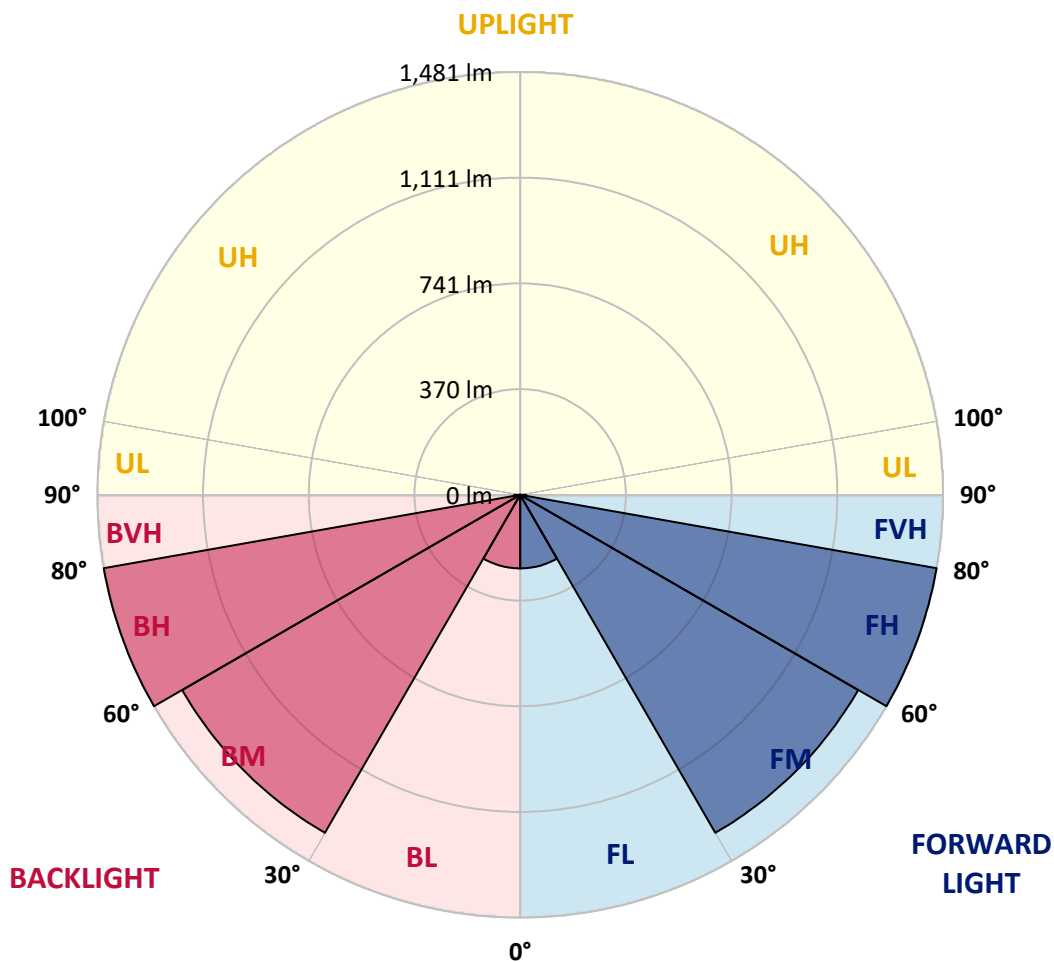
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	257.8	4.1			
FM	(30°-60°)	1367.5	21.9			
FH	(60°-80°)	1481.4	23.7			G1/1800
FVH	(80°-90°)	20.8	0.3			G1/100
BL	(0°-30°)	257.8	4.1	B1/500		
BM	(30°-60°)	1367.5	21.9	B2/2500		
BH	(60°-80°)	1481.4	23.7	B3/2500		G1/1800
BVH	(80°-90°)	20.8	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°	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
2.5°	626.6	626.6	627.4	627.0	625.9	624.7	623.6	622.4	621.7	620.9	620.1
5°	620.1	620.1	621.3	620.5	619.7	618.6	617.8	616.7	615.9	615.1	615.5
7.5°	611.7	612.5	613.2	612.8	611.3	610.9	609.8	609.4	608.6	607.5	607.9
10°	604.4	604.8	605.6	605.2	604.8	603.7	603.3	602.9	602.5	601.0	600.6
12.5°	597.1	597.9	598.7	599.1	598.7	599.1	599.4	599.8	599.4	598.7	598.7
15°	591.4	592.2	593.3	594.5	594.8	597.1	598.7	600.2	601.4	601.7	600.6
17.5°	588.3	589.5	591.0	593.3	595.2	597.9	600.6	602.9	604.8	605.2	604.0
20°	588.0	589.1	591.4	594.1	597.5	601.0	605.2	608.6	610.5	611.7	610.5
22.5°	590.6	592.2	595.2	598.7	602.9	607.5	612.8	616.7	620.5	622.0	620.9
25°	598.3	599.8	603.3	607.5	612.1	617.8	623.2	628.2	632.0	633.9	632.4
27.5°	614.4	614.8	618.6	623.2	628.6	633.5	640.4	642.7	645.8	647.7	645.8
30°	637.0	637.7	641.2	648.5	653.4	660.0	663.8	666.1	669.5	671.5	669.2
32.5°	671.5	672.2	675.3	682.2	686.8	691.8	696.3	697.9	701.3	703.6	700.9
35°	720.1	721.6	724.3	728.9	732.7	736.6	740.0	738.9	741.2	744.2	741.5
37.5°	786.7	786.4	787.1	790.6	794.4	796.7	802.1	799.4	801.7	804.4	802.8
40°	864.5	864.5	864.1	870.2	871.8	874.1	879.8	876.4	879.4	882.5	879.8
42.5°	953.0	954.5	956.4	961.4	965.6	966.4	969.1	967.5	971.4	974.0	971.4
45°	1054.9	1057.2	1059.5	1071.0	1072.9	1074.4	1076.3	1071.3	1075.5	1077.8	1077.1
47.5°	1160.6	1164.8	1169.8	1181.6	1189.3	1192.8	1194.3	1188.5	1188.9	1192.4	1192.8
50°	1280.1	1284.7	1289.7	1303.1	1310.3	1316.5	1318.4	1311.9	1312.6	1315.3	1316.1
52.5°	1390.4	1395.8	1406.5	1424.5	1434.8	1445.6	1446.3	1438.3	1441.7	1443.6	1442.1
55°	1494.2	1501.1	1515.3	1539.4	1558.2	1579.2	1588.8	1580.0	1580.0	1578.5	1577.7
57.5°	1615.2	1622.9	1637.5	1665.4	1691.5	1721.7	1747.8	1756.6	1772.7	1778.0	1769.6
60°	1797.6	1805.6	1820.5	1857.3	1890.3	1934.3	1977.2	2012.1	2068.7	2099.4	2071.8
62.5°	1964.2	1976.4	2011.7	2076.0	2147.3	2228.8	2323.5	2390.9	2493.9	2545.2	2475.9
65°	1926.3	1951.2	2020.1	2121.2	2268.3	2445.3	2637.9	2822.9	3035.9	3145.1	3004.1
67.5°	1682.6	1703.7	1778.0	1895.6	2079.1	2323.1	2622.6	3005.6	3445.0	3649.5	3400.2
68°	1589.6	1629.0	1702.9	1819.8	2004.8	2244.6	2564.4	2978.1	3457.6	3678.6	3409.3
70°	1218.8	1233.0	1303.8	1408.8	1608.3	1843.5	2166.4	2637.9	3179.9	3407.4	3130.5
72.5°	579.1	587.6	633.5	736.9	863.7	1055.2	1340.2	1784.9	2273.3	2510.0	2233.8
75°	212.2	214.1	224.8	249.4	296.8	368.9	505.6	782.1	1157.9	1380.8	1162.5
77.5°	114.5	114.9	119.1	125.3	133.7	143.3	163.9	219.9	354.7	482.6	374.6
80°	72.0	71.6	75.8	80.8	86.6	91.2	93.1	99.6	112.2	131.4	120.7
82.5°	36.8	40.2	49.8	55.2	63.6	65.1	63.2	62.8	66.6	72.0	74.3
85°	20.3	18.0	26.4	35.2	38.3	39.5	39.8	37.5	36.8	36.0	37.9
87.5°	10.3	9.6	11.5	17.6	18.8	15.3	15.7	13.4	9.2	9.2	9.6
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°	624.0	624.0	624.0	624.0	624.0	624.0	624.0	624.0
2.5°	619.4	619.7	619.0	619.0	619.0	619.4	619.0	618.6
5°	614.4	615.1	615.1	615.5	615.9	615.9	615.9	615.9
7.5°	607.1	607.5	608.3	608.3	608.3	608.3	608.3	608.3
10°	600.2	599.4	599.1	598.3	598.3	597.1	597.5	597.9
12.5°	596.8	595.2	594.5	593.3	592.5	591.4	591.4	591.8
15°	598.3	596.0	593.7	592.9	592.2	591.4	590.6	591.0
17.5°	601.4	598.7	596.0	594.5	592.9	591.8	591.4	591.8
20°	607.9	604.0	599.8	597.1	594.1	593.3	592.2	593.3
22.5°	616.7	612.1	606.7	601.7	598.3	596.8	595.2	596.4
25°	627.4	622.4	617.1	611.3	607.5	606.3	604.4	604.4
27.5°	642.3	638.1	633.5	628.2	624.3	623.2	620.1	620.1
30°	666.1	661.9	657.7	653.1	649.2	648.1	644.3	644.3
32.5°	697.5	692.9	690.2	686.4	683.3	681.4	676.8	676.4
35°	739.6	735.4	735.0	732.4	729.3	729.7	725.1	724.3
37.5°	800.1	796.7	797.9	795.6	792.9	795.2	792.5	792.5
40°	877.5	876.4	877.5	876.0	876.4	876.8	874.5	875.2
42.5°	971.0	967.9	974.8	974.0	972.9	976.0	970.6	966.8
45°	1078.6	1077.5	1084.4	1085.5	1083.2	1085.1	1075.5	1075.2
47.5°	1195.4	1195.4	1201.6	1200.8	1198.5	1198.9	1187.4	1180.1
50°	1317.2	1316.5	1322.6	1321.1	1318.0	1317.6	1305.7	1298.5
52.5°	1444.0	1444.0	1452.8	1448.6	1441.3	1437.9	1423.3	1413.8
55°	1584.2	1582.3	1585.0	1571.2	1557.0	1546.7	1528.7	1521.4
57.5°	1761.6	1739.3	1720.2	1702.6	1682.6	1670.4	1649.3	1641.7
60°	2013.2	1953.8	1928.2	1892.9	1860.0	1843.5	1815.6	1800.6
62.5°	2361.8	2263.3	2193.6	2115.9	2040.8	1987.9	1945.4	1926.6
65°	2764.7	2550.2	2372.9	2206.2	2064.9	1952.7	1890.3	1870.7
67.5°	2917.9	2524.2	2218.1	1979.1	1807.5	1673.8	1599.1	1583.4
68°	2885.4	2464.4	2146.5	1901.7	1729.4	1594.6	1520.2	1506.1
70°	2545.2	2079.1	1743.5	1499.9	1339.1	1210.8	1158.3	1135.7
72.5°	1735.1	1335.2	1024.2	819.3	699.0	617.8	569.6	553.1
75°	798.6	539.7	360.4	269.3	228.7	209.1	194.2	190.4
77.5°	232.9	169.3	145.6	134.8	126.8	119.9	114.9	114.5
80°	110.7	103.8	100.7	93.8	86.6	80.1	75.5	76.2
82.5°	74.3	72.4	72.4	65.5	54.0	46.3	38.3	34.5
85°	39.5	41.0	43.3	41.0	35.6	26.4	17.2	18.8
87.5°	13.4	15.3	16.1	15.7	14.2	10.7	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)