

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: P198816

Luminaire Tested: **XNV-AF-01-LED-U-5NQ-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198816  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24130)  
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-5NQ-7050-1200  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6820 lumens  
Efficiency: N/A  
Efficacy: 103.3 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

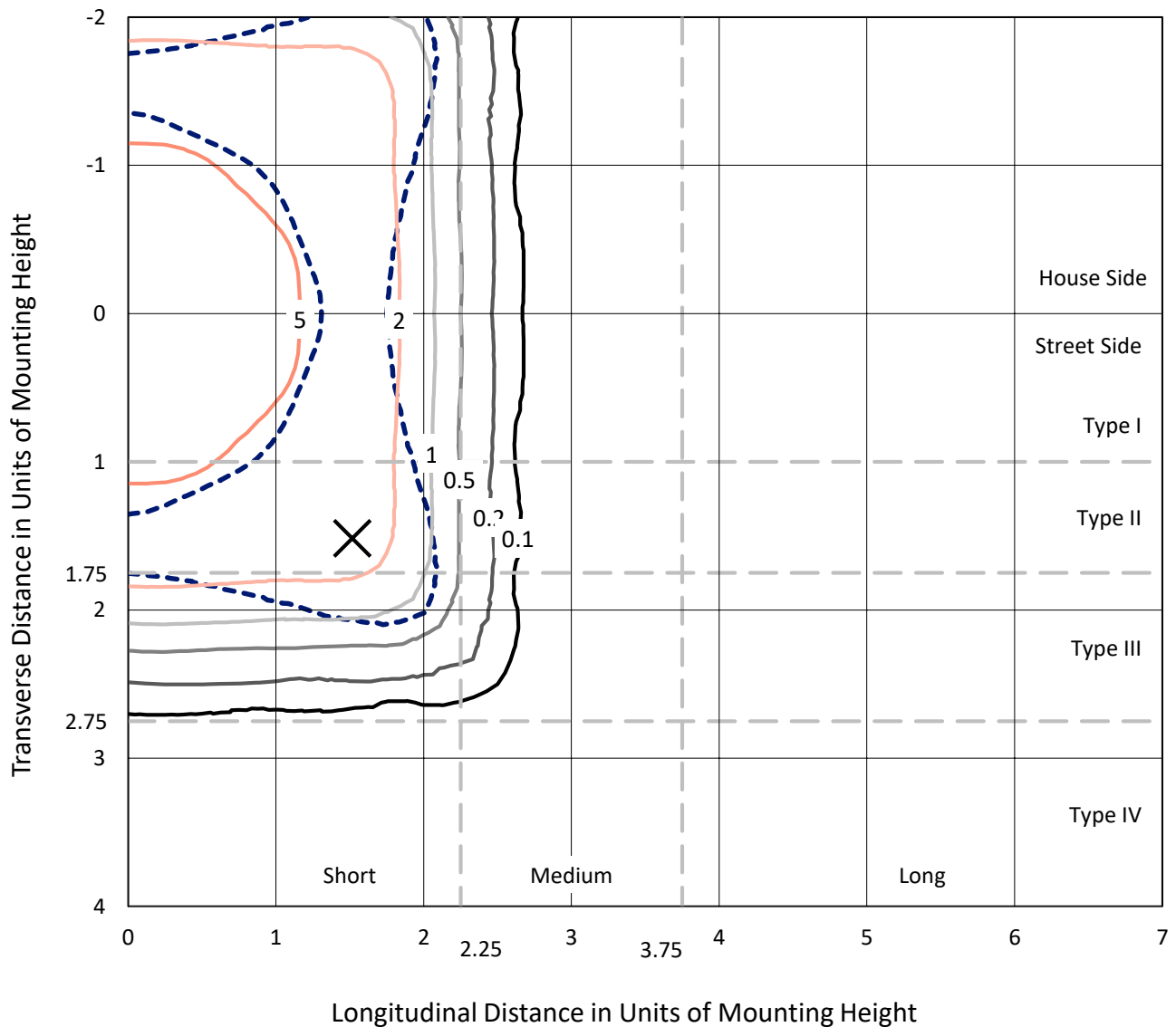
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

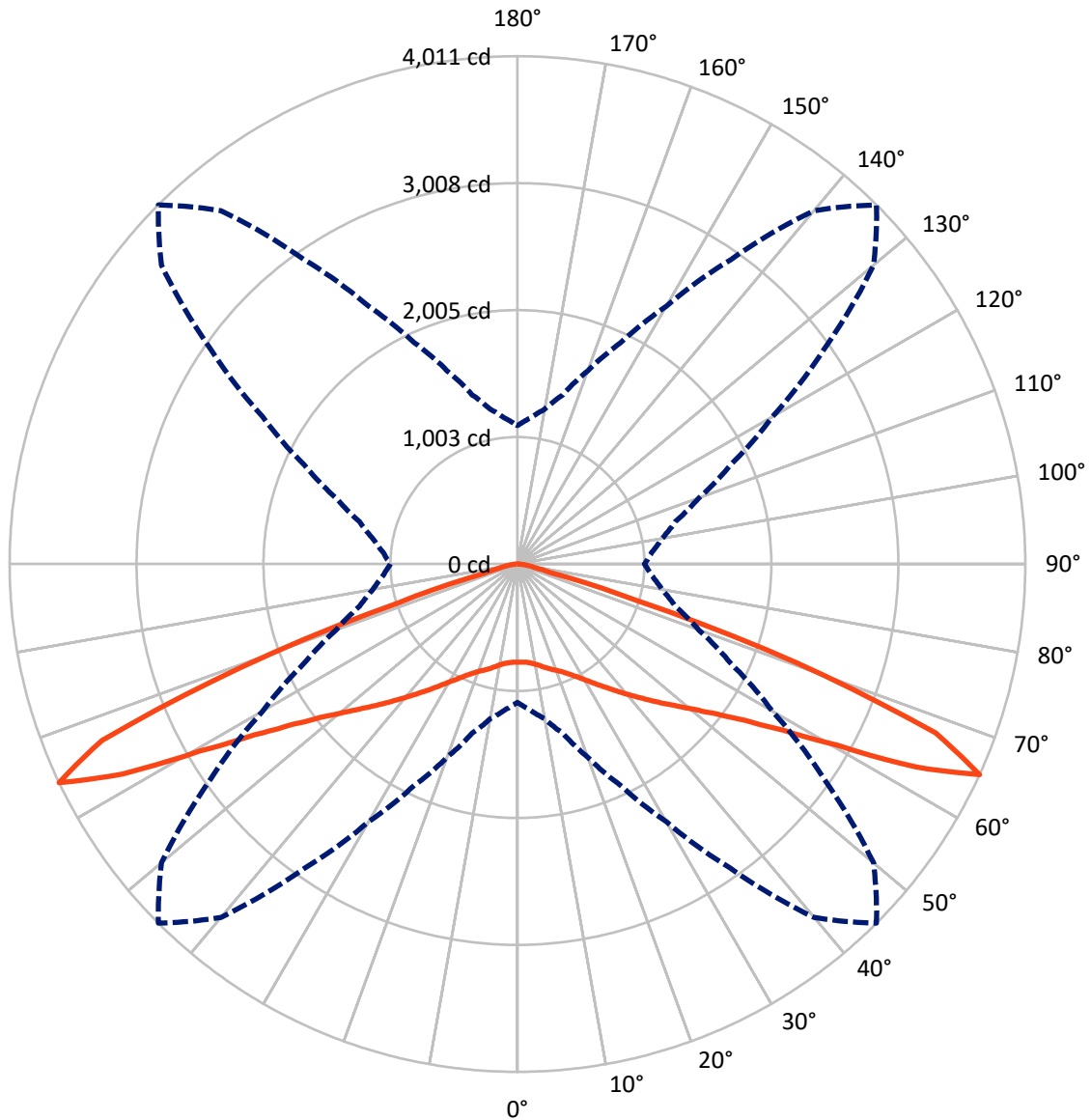
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3410.0	0.0	3410.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3410.0	0.0	3410.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6820.0	0.0	6820.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.5	1.1
10°-20°	242.1	3.6
20°-30°	451.7	6.6
30°-40°	761.6	11.2
40°-50°	1237.1	18.1
50°-60°	1938.3	28.4
60°-70°	1829.6	26.8
70°-80°	246.6	3.6
80°-90°	37.6	0.6
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°	6820.0	100.0
0°-180°	6820.0	100.0

**Coefficient of Utilization**



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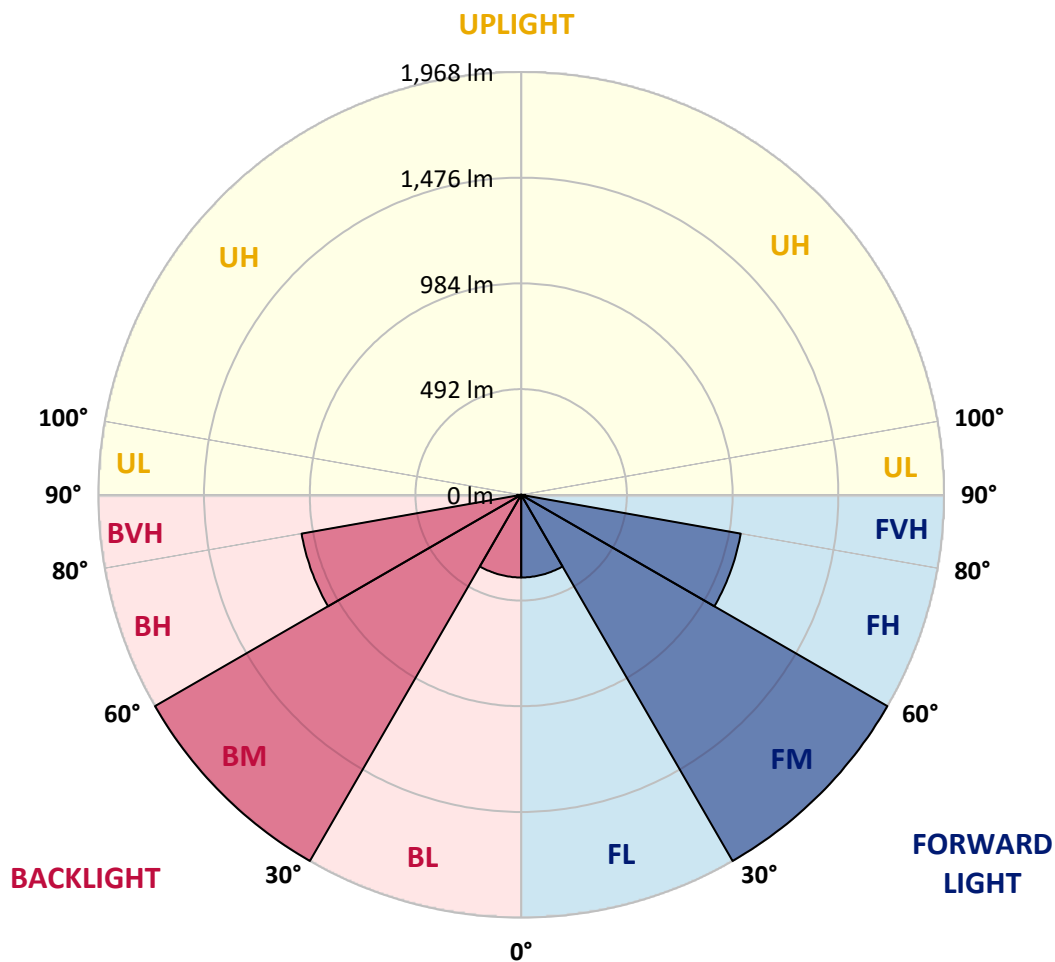
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	384.7	5.6			
FM	(30°-60°)	1968.5	28.9			
FH	(60°-80°)	1038.1	15.2			G1/1800
FVH	(80°-90°)	18.8	0.3			G1/100
BL	(0°-30°)	384.7	5.6	B1/500		
BM	(30°-60°)	1968.5	28.9	B2/2500		
BH	(60°-80°)	1038.1	15.2	B3/2500		G1/1800
BVH	(80°-90°)	18.8	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°	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8
2.5°	782.1	782.1	783.4	783.0	781.3	780.0	778.7	777.0	776.2	775.3	774.9
5°	786.4	786.4	787.7	787.2	786.0	784.3	783.4	782.1	780.9	780.0	780.4
7.5°	797.0	797.4	797.9	797.4	796.2	794.9	793.2	792.8	791.1	789.8	790.6
10°	813.2	813.2	813.6	814.0	813.2	810.2	810.2	809.3	807.6	805.9	806.4
12.5°	831.0	831.0	831.4	831.4	831.4	829.7	830.1	829.7	827.6	826.7	827.6
15°	848.4	848.8	848.8	849.7	849.7	850.1	851.8	851.8	851.0	850.5	850.5
17.5°	868.8	869.7	870.1	871.4	871.8	872.6	874.3	874.8	875.2	873.9	874.3
20°	896.0	896.4	897.7	898.1	899.8	899.8	900.7	900.2	899.4	897.7	897.7
22.5°	926.6	927.4	930.0	930.0	932.1	930.8	931.3	930.0	927.9	927.0	926.2
25°	966.5	967.8	969.9	969.1	969.9	967.8	967.8	967.8	966.5	965.2	964.8
27.5°	1017.1	1015.0	1017.1	1015.4	1015.0	1013.3	1013.7	1012.8	1011.6	1011.1	1009.4
30°	1069.8	1067.2	1068.5	1068.9	1068.1	1067.6	1065.9	1064.7	1062.5	1063.0	1061.7
32.5°	1130.1	1127.5	1128.8	1129.2	1128.4	1129.2	1128.8	1125.8	1123.3	1125.0	1125.0
35°	1201.9	1200.2	1203.6	1204.9	1202.3	1201.0	1199.3	1195.9	1192.1	1194.7	1195.1
37.5°	1288.1	1286.0	1288.6	1292.0	1287.3	1284.7	1277.9	1272.8	1270.3	1271.6	1273.3
40°	1377.8	1378.2	1385.4	1386.3	1381.2	1378.2	1371.4	1363.8	1356.5	1356.5	1358.7
42.5°	1472.1	1473.4	1481.9	1484.8	1483.1	1477.6	1468.3	1458.9	1449.6	1451.3	1453.8
45°	1578.7	1577.0	1585.9	1593.2	1591.9	1590.2	1581.3	1564.3	1555.8	1555.4	1559.6
47.5°	1690.9	1694.3	1703.6	1715.9	1715.5	1711.3	1699.8	1684.1	1668.4	1669.6	1674.7
50°	1821.7	1826.4	1842.1	1854.4	1856.1	1854.9	1841.3	1823.0	1800.9	1802.2	1809.0
52.5°	1939.0	1945.8	1964.1	1989.5	2005.3	2012.5	2003.6	1986.6	1964.1	1965.3	1972.6
55°	2045.2	2055.8	2083.0	2117.9	2149.3	2178.6	2191.8	2191.4	2174.8	2178.6	2188.0
57.5°	2111.9	2126.8	2168.0	2224.1	2286.5	2345.6	2396.6	2444.6	2455.2	2475.1	2475.1
60°	2022.3	2057.1	2111.9	2207.9	2330.7	2463.3	2606.8	2746.6	2836.7	2907.6	2869.4
62.5°	1688.8	1740.2	1817.1	1943.7	2134.8	2371.5	2660.0	2985.0	3324.0	3531.3	3379.2
65°	1092.7	1157.3	1241.0	1383.3	1624.2	1928.8	2349.0	2933.1	3642.6	4010.5	3670.7
67.5°	432.9	476.7	527.7	628.8	837.8	1136.9	1608.5	2329.0	3216.5	3563.6	3182.5
70°	206.9	214.1	223.9	245.6	297.8	401.9	646.2	1147.5	1972.6	2338.3	1925.4
72.5°	149.5	150.8	155.5	162.7	178.0	199.3	242.2	350.9	680.2	989.0	681.0
75°	113.4	115.1	117.7	121.5	129.6	139.8	155.9	186.9	232.8	268.5	232.4
77.5°	86.2	87.9	90.1	93.9	98.1	105.4	111.3	123.6	143.2	150.8	150.0
80°	62.9	65.9	69.2	72.6	75.6	79.0	79.4	85.4	96.4	103.7	101.5
82.5°	39.9	42.5	51.4	55.2	55.7	56.5	56.1	56.5	62.5	67.6	65.9
85°	25.5	27.2	31.9	36.1	35.3	37.0	37.0	36.1	33.6	28.9	34.4
87.5°	12.7	13.2	15.3	19.1	18.3	16.1	15.7	15.7	11.5	9.8	10.6
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°	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8
2.5°	773.6	774.5	773.2	773.2	772.8	773.6	772.4	772.4
5°	779.6	780.9	780.4	780.4	781.3	782.1	781.7	781.3
7.5°	790.2	791.1	791.9	792.3	793.2	792.8	793.6	793.2
10°	806.4	805.5	806.8	805.5	805.9	805.1	805.5	805.5
12.5°	826.7	825.5	824.6	823.8	823.8	822.1	822.1	822.5
15°	850.1	848.0	846.3	845.4	844.6	844.6	843.3	844.2
17.5°	873.1	870.9	868.0	868.0	866.7	865.8	865.0	867.1
20°	897.3	895.1	893.4	893.0	890.5	889.6	890.1	892.6
22.5°	925.3	924.0	924.0	923.2	921.5	920.2	920.2	923.2
25°	963.1	960.6	961.0	961.4	960.6	960.6	959.7	961.8
27.5°	1009.4	1007.3	1008.6	1009.4	1008.6	1009.9	1008.6	1010.3
30°	1063.8	1062.5	1063.8	1065.1	1063.0	1063.0	1062.1	1063.4
32.5°	1128.8	1127.1	1128.0	1128.0	1125.0	1122.4	1119.0	1121.6
35°	1200.2	1198.1	1199.8	1201.0	1197.6	1195.1	1190.0	1192.1
37.5°	1278.8	1279.6	1281.8	1287.3	1286.4	1282.2	1278.4	1280.1
40°	1366.7	1371.0	1380.3	1384.1	1383.3	1379.0	1373.9	1374.8
42.5°	1466.1	1471.7	1481.4	1487.8	1484.8	1478.9	1472.5	1475.1
45°	1574.5	1583.0	1595.7	1602.1	1598.3	1591.9	1583.0	1587.6
47.5°	1689.2	1706.2	1723.2	1731.7	1730.4	1721.5	1710.0	1711.3
50°	1826.4	1848.9	1870.6	1879.1	1872.7	1859.1	1843.0	1842.6
52.5°	1997.2	2021.4	2039.3	2037.1	2021.4	2000.2	1981.9	1981.1
55°	2210.5	2218.5	2216.0	2197.7	2170.1	2137.0	2113.6	2109.8
57.5°	2468.3	2441.2	2401.2	2346.0	2284.0	2221.1	2178.6	2162.9
60°	2783.6	2660.8	2518.1	2367.7	2230.4	2127.6	2062.6	2023.1
62.5°	3044.0	2688.4	2369.4	2108.1	1894.4	1767.4	1678.6	1623.8
65°	2954.8	2322.6	1860.4	1523.5	1290.3	1159.0	1065.1	1002.6
67.5°	2282.7	1552.0	1080.0	748.6	567.6	480.5	419.7	380.2
70°	1150.9	595.2	360.7	254.5	217.5	202.2	192.0	186.1
72.5°	337.8	225.6	187.4	165.7	152.5	143.2	137.2	134.3
75°	186.9	152.5	134.7	122.4	113.9	107.5	103.7	101.1
77.5°	128.7	110.9	102.0	93.9	87.1	82.4	79.4	76.9
80°	90.1	81.1	77.3	73.1	68.0	64.2	59.9	58.2
82.5°	59.9	56.1	55.2	51.8	48.9	44.6	37.0	34.4
85°	35.3	34.8	34.8	33.6	31.4	27.6	22.1	22.1
87.5°	12.3	12.7	13.2	14.0	13.6	11.5	9.3	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)