

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: P198648

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198648  
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-1200  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 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: 7228.2 lumens  
Efficiency: N/A  
Efficacy: 109.5 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

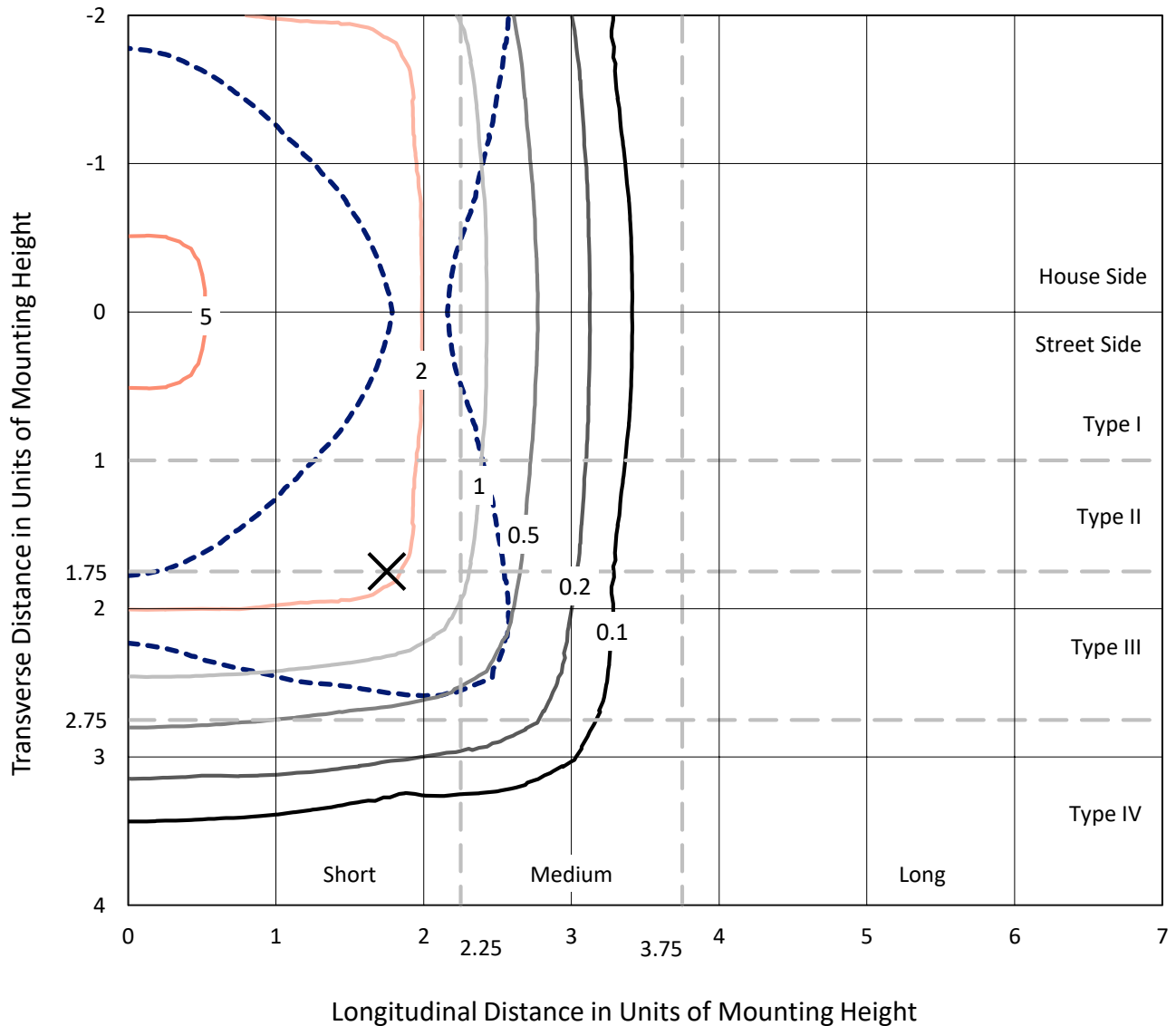
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P198648  
 CATALOG NUMBER: XNV-AF-01-LED-U-5MQ-1200

### Iso-Footcandle Lines of Horizontal Illumination

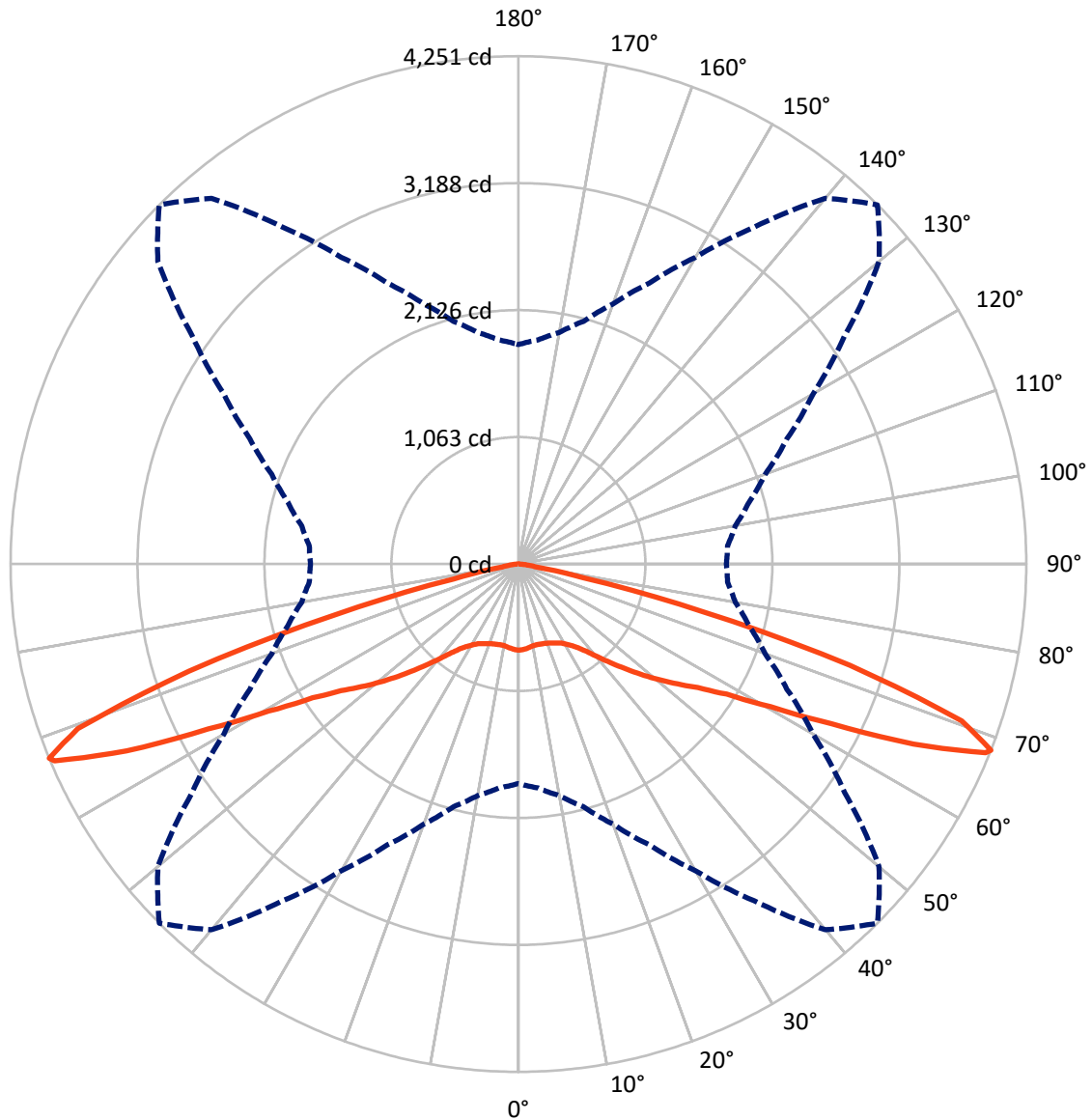
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 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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CATALOG NUMBER: XNV-AF-01-LED-U-5MQ-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3614.1	0.0	3614.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3614.1	0.0	3614.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7228.2	0.0	7228.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.5	0.9
10°-20°	195.7	2.7
20°-30°	332.7	4.6
30°-40°	544.4	7.5
40°-50°	972.9	13.5
50°-60°	1643.1	22.7
60°-70°	2547.8	35.2
70°-80°	876.0	12.1
80°-90°	48.1	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°	7228.2	100.0
0°-180°	7228.2	100.0



REPORT NUMBER: P198648

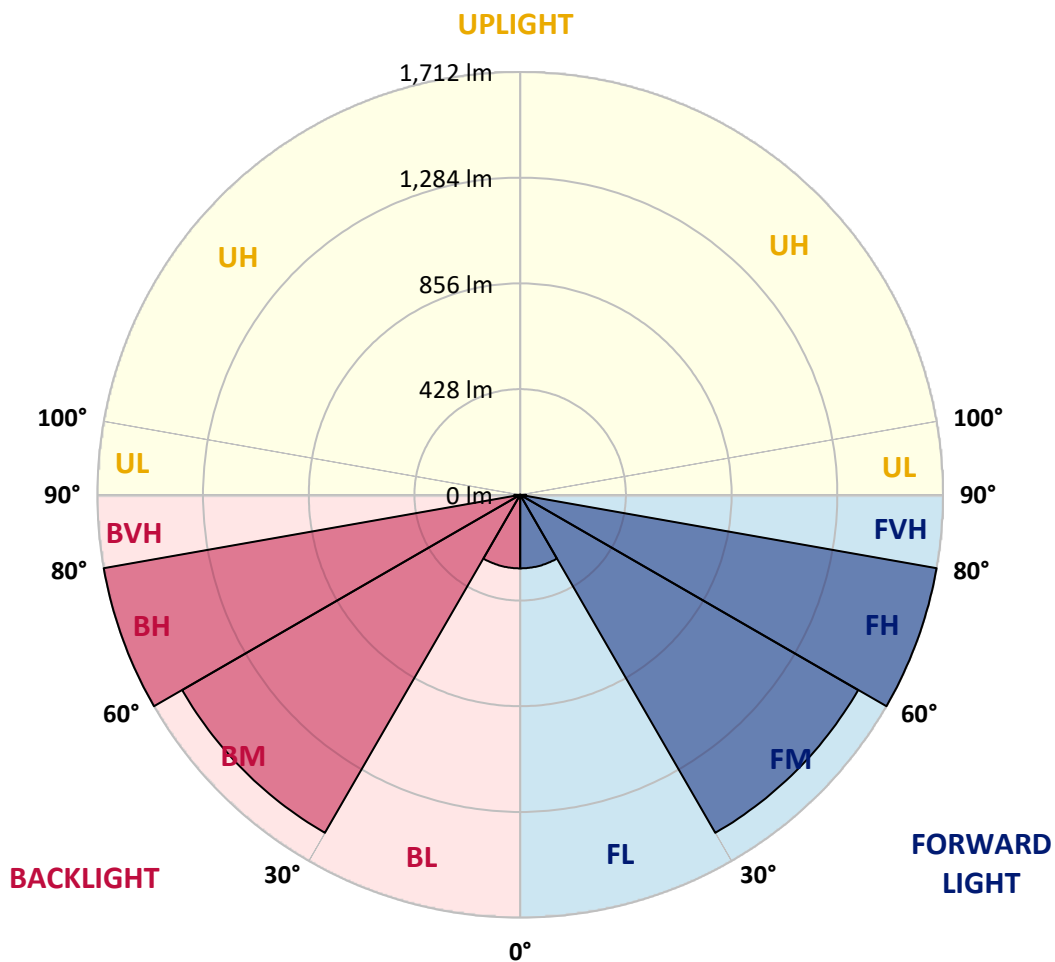
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	297.9	4.1			
FM	(30°-60°)	1580.2	21.9			
FH	(60°-80°)	1711.9	23.7			G1/1800
FVH	(80°-90°)	24.1	0.3			G1/100
BL	(0°-30°)	297.9	4.1	B1/500		
BM	(30°-60°)	1580.2	21.9	B2/2500		
BH	(60°-80°)	1711.9	23.7	B3/2500		G1/1800
BVH	(80°-90°)	24.1	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





REPORT NUMBER: P198648

CATALOG NUMBER: XNV-AF-01-LED-U-5MQ-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1
2.5°	724.1	724.1	725.0	724.6	723.2	721.9	720.6	719.2	718.4	717.5	716.6
5°	716.6	716.6	717.9	717.1	716.2	714.8	713.9	712.6	711.8	710.8	711.3
7.5°	706.9	707.8	708.6	708.2	706.4	705.9	704.6	704.2	703.3	701.9	702.5
10°	698.5	698.9	699.8	699.4	698.9	697.6	697.1	696.7	696.2	694.5	694.1
12.5°	690.1	690.9	691.8	692.2	691.8	692.2	692.7	693.2	692.7	691.8	691.8
15°	683.4	684.3	685.6	686.9	687.4	690.1	691.8	693.6	694.9	695.4	694.1
17.5°	679.9	681.2	682.9	685.6	687.8	690.9	694.1	696.7	698.9	699.4	698.1
20°	679.4	680.8	683.4	686.5	690.5	694.5	699.4	703.3	705.5	706.9	705.5
22.5°	682.5	684.3	687.8	691.8	696.7	701.9	708.2	712.6	717.1	718.8	717.5
25°	691.4	693.2	697.1	701.9	707.3	713.9	720.2	725.9	730.3	732.5	730.8
27.5°	709.9	710.4	714.8	720.2	726.3	732.1	740.1	742.8	746.2	748.5	746.2
30°	736.1	736.9	740.9	749.3	755.1	762.6	767.1	769.8	773.7	775.9	773.2
32.5°	775.9	776.8	780.3	788.3	793.6	799.3	804.7	806.5	810.5	813.1	810.0
35°	832.2	833.9	837.0	842.3	846.7	851.2	855.2	853.9	856.5	860.0	856.9
37.5°	909.1	908.7	909.6	913.6	918.0	920.7	926.9	923.7	926.4	929.6	927.7
40°	999.0	999.0	998.6	1005.7	1007.4	1010.1	1016.7	1012.7	1016.3	1019.8	1016.7
42.5°	1101.2	1103.0	1105.2	1111.0	1115.8	1116.8	1119.8	1118.1	1122.5	1125.6	1122.5
45°	1218.9	1221.6	1224.3	1237.6	1239.8	1241.6	1243.8	1238.0	1242.9	1245.5	1244.6
47.5°	1341.2	1346.0	1351.7	1365.5	1374.3	1378.3	1380.1	1373.4	1373.9	1377.9	1378.3
50°	1479.3	1484.5	1490.3	1505.8	1514.2	1521.3	1523.5	1516.0	1516.8	1520.0	1520.8
52.5°	1606.7	1612.9	1625.3	1646.1	1658.1	1670.5	1671.3	1662.1	1666.1	1668.2	1666.5
55°	1726.6	1734.6	1751.0	1778.9	1800.6	1824.9	1836.0	1825.9	1825.9	1824.0	1823.2
57.5°	1866.6	1875.4	1892.3	1924.5	1954.7	1989.5	2019.7	2029.8	2048.5	2054.7	2044.9
60°	2077.2	2086.5	2103.8	2146.3	2184.3	2235.2	2284.9	2325.1	2390.6	2426.0	2394.1
62.5°	2269.7	2283.9	2324.7	2399.0	2481.4	2575.6	2684.9	2762.9	2882.0	2941.2	2861.1
65°	2225.9	2254.7	2334.4	2451.2	2621.2	2825.7	3048.3	3262.1	3508.2	3634.3	3471.5
67.5°	1944.4	1968.8	2054.7	2190.5	2402.5	2684.5	3030.6	3473.2	3980.9	4217.3	3929.2
68°	1836.9	1882.4	1967.9	2102.9	2316.7	2593.8	2963.4	3441.4	3995.5	4251.0	3939.8
70°	1408.4	1424.8	1506.7	1627.9	1858.6	2130.3	2503.5	3048.3	3674.6	3937.5	3617.6
72.5°	669.2	678.9	732.1	851.6	998.1	1219.5	1548.7	2062.6	2626.9	2900.5	2581.4
75°	245.2	247.5	259.8	288.2	343.0	426.3	584.3	903.9	1338.0	1595.7	1343.3
77.5°	132.4	132.8	137.7	144.7	154.5	165.5	189.5	254.1	409.9	557.7	432.9
80°	83.2	82.8	87.7	93.4	100.0	105.4	107.5	115.1	129.7	151.8	139.4
82.5°	42.5	46.4	57.5	63.7	73.4	75.3	73.0	72.6	77.0	83.2	85.8
85°	23.4	20.8	30.6	40.7	44.3	45.6	46.0	43.4	42.5	41.6	43.8
87.5°	12.0	11.0	13.3	20.4	21.7	17.7	18.1	15.4	10.6	10.6	11.0
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: P198648

CATALOG NUMBER: XNV-AF-01-LED-U-5MQ-1200

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1
2.5°	715.8	716.2	715.2	715.2	715.2	715.8	715.2	714.8
5°	709.9	710.8	710.8	711.3	711.8	711.8	711.8	711.8
7.5°	701.5	701.9	702.9	702.9	702.9	702.9	702.9	702.9
10°	693.6	692.7	692.2	691.4	691.4	690.1	690.5	690.9
12.5°	689.6	687.8	686.9	685.6	684.8	683.4	683.4	683.8
15°	691.4	688.8	686.1	685.2	684.3	683.4	682.5	682.9
17.5°	694.9	691.8	688.8	686.9	685.2	683.8	683.4	683.8
20°	702.5	698.1	693.2	690.1	686.5	685.6	684.3	685.6
22.5°	712.6	707.3	701.1	695.4	691.4	689.6	687.8	689.2
25°	725.0	719.2	713.1	706.4	701.9	700.7	698.5	698.5
27.5°	742.3	737.4	732.1	725.9	721.5	720.2	716.6	716.6
30°	769.8	764.9	760.0	754.6	750.2	748.9	744.5	744.5
32.5°	806.0	800.7	797.6	793.2	789.6	787.5	782.1	781.6
35°	854.7	849.9	849.4	846.3	842.7	843.2	837.9	837.0
37.5°	924.6	920.7	922.0	919.3	916.3	918.9	915.7	915.7
40°	1014.1	1012.7	1014.1	1012.3	1012.7	1013.1	1010.5	1011.4
42.5°	1122.1	1118.5	1126.5	1125.6	1124.2	1127.8	1121.6	1117.2
45°	1246.5	1245.1	1253.0	1254.3	1251.8	1253.9	1242.9	1242.5
47.5°	1381.4	1381.4	1388.6	1387.6	1385.0	1385.4	1372.1	1363.7
50°	1522.2	1521.3	1528.4	1526.7	1523.1	1522.7	1508.9	1500.5
52.5°	1668.6	1668.6	1678.9	1674.0	1665.6	1661.6	1644.8	1633.8
55°	1830.7	1828.4	1831.6	1815.6	1799.3	1787.3	1766.5	1758.1
57.5°	2035.6	2010.0	1987.8	1967.4	1944.4	1930.3	1906.0	1897.1
60°	2326.4	2257.9	2228.2	2187.5	2149.4	2130.3	2098.1	2080.8
62.5°	2729.2	2615.5	2534.9	2445.1	2358.3	2297.2	2248.0	2226.4
65°	3194.9	2947.0	2742.0	2549.5	2386.1	2256.5	2184.3	2161.8
67.5°	3371.9	2916.8	2563.2	2287.0	2088.8	1934.3	1848.0	1829.8
68°	3334.3	2847.8	2480.5	2197.6	1998.4	1842.6	1756.8	1740.3
70°	2941.2	2402.5	2014.8	1733.3	1547.4	1399.1	1338.5	1312.3
72.5°	2005.1	1543.0	1183.6	946.7	807.8	713.9	658.2	639.1
75°	922.9	623.7	416.5	311.2	264.2	241.6	224.4	219.9
77.5°	269.1	195.6	168.2	155.8	146.5	138.5	132.8	132.4
80°	127.9	120.0	116.4	108.4	100.0	92.5	87.2	88.1
82.5°	85.8	83.7	83.7	75.7	62.4	53.6	44.3	39.8
85°	45.6	47.4	50.0	47.4	41.1	30.6	19.9	21.7
87.5°	15.4	17.7	18.6	18.1	16.4	12.4	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)