

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: P198784

Luminaire Tested: **XNV-AF-01-LED-U-T3R-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198784  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24250)  
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-T3R-1200  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6903.9 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Full Cutoff  
BUG Rating: B1 - U0 - G2

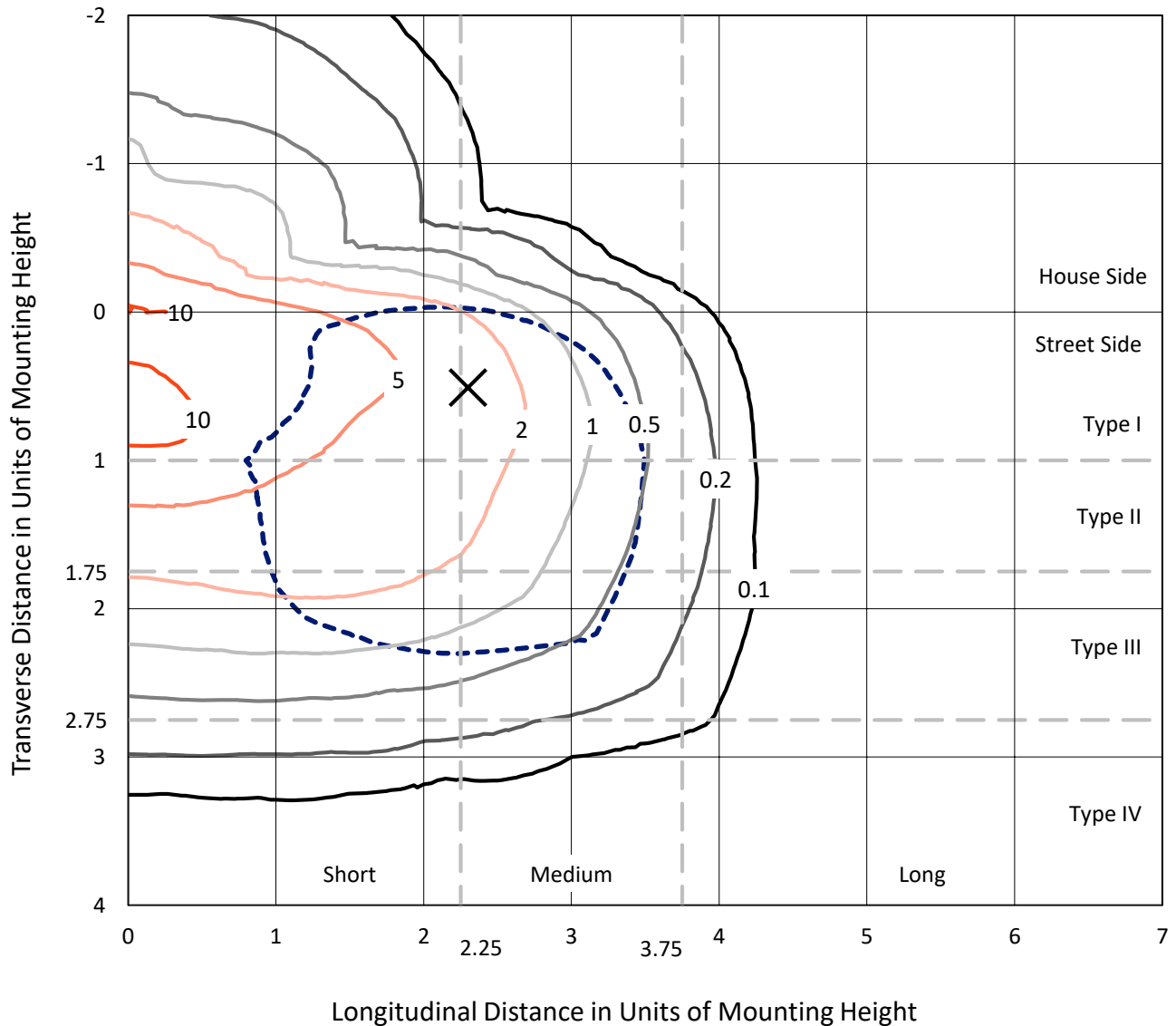
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

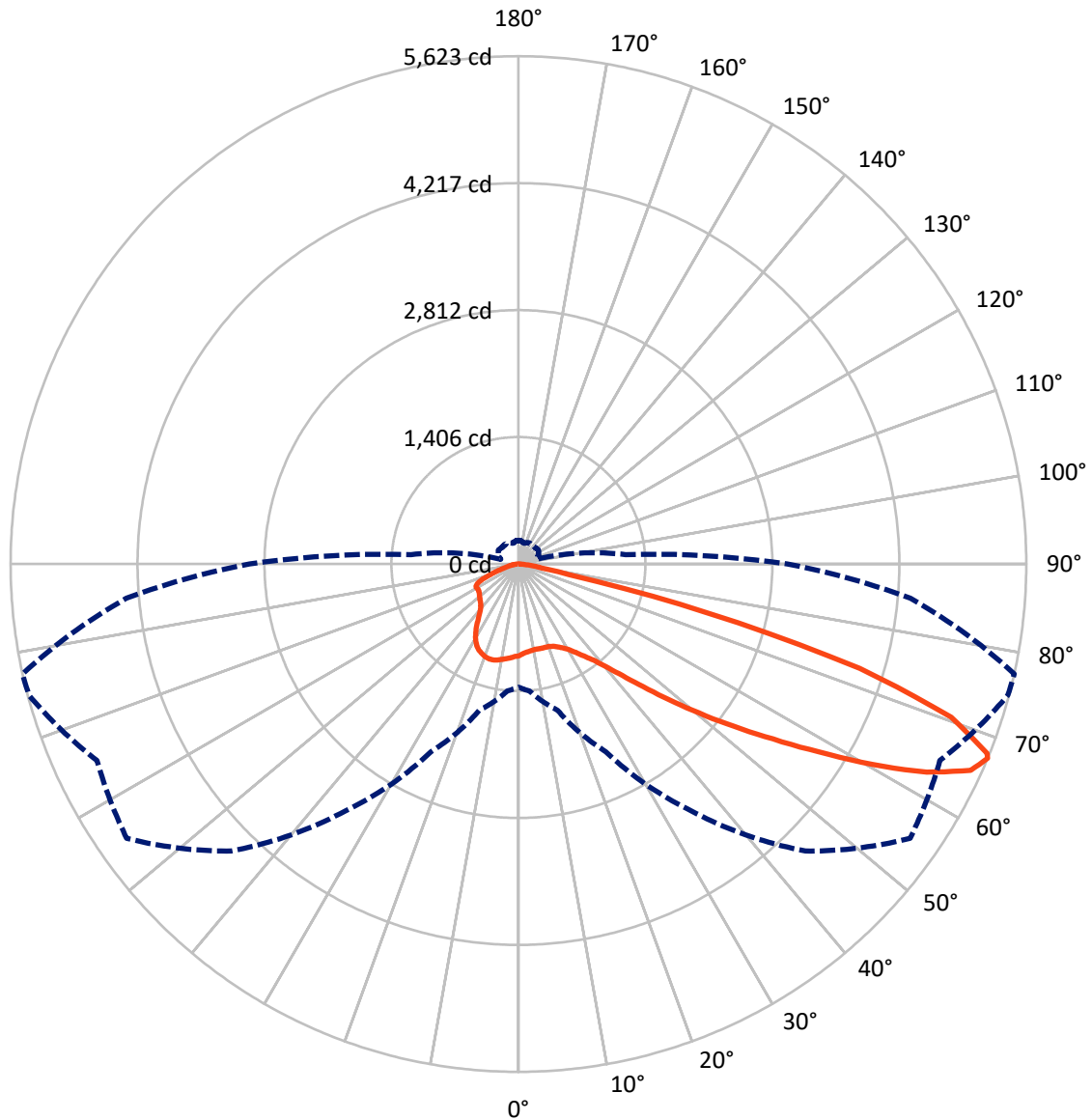
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 fc  
 Type III - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1186.4	0.0	1186.4
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	5717.5	0.0	5717.5
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	6903.9	0.0	6903.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.5	1.3
10°-20°	250.6	3.6
20°-30°	425.8	6.2
30°-40°	681.2	9.9
40°-50°	1048.7	15.2
50°-60°	1455.0	21.1
60°-70°	1940.9	28.1
70°-80°	923.7	13.4
80°-90°	87.5	1.3
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°	6903.9	100.0
0°-180°	6903.9	100.0

**Coefficient of Utilization**



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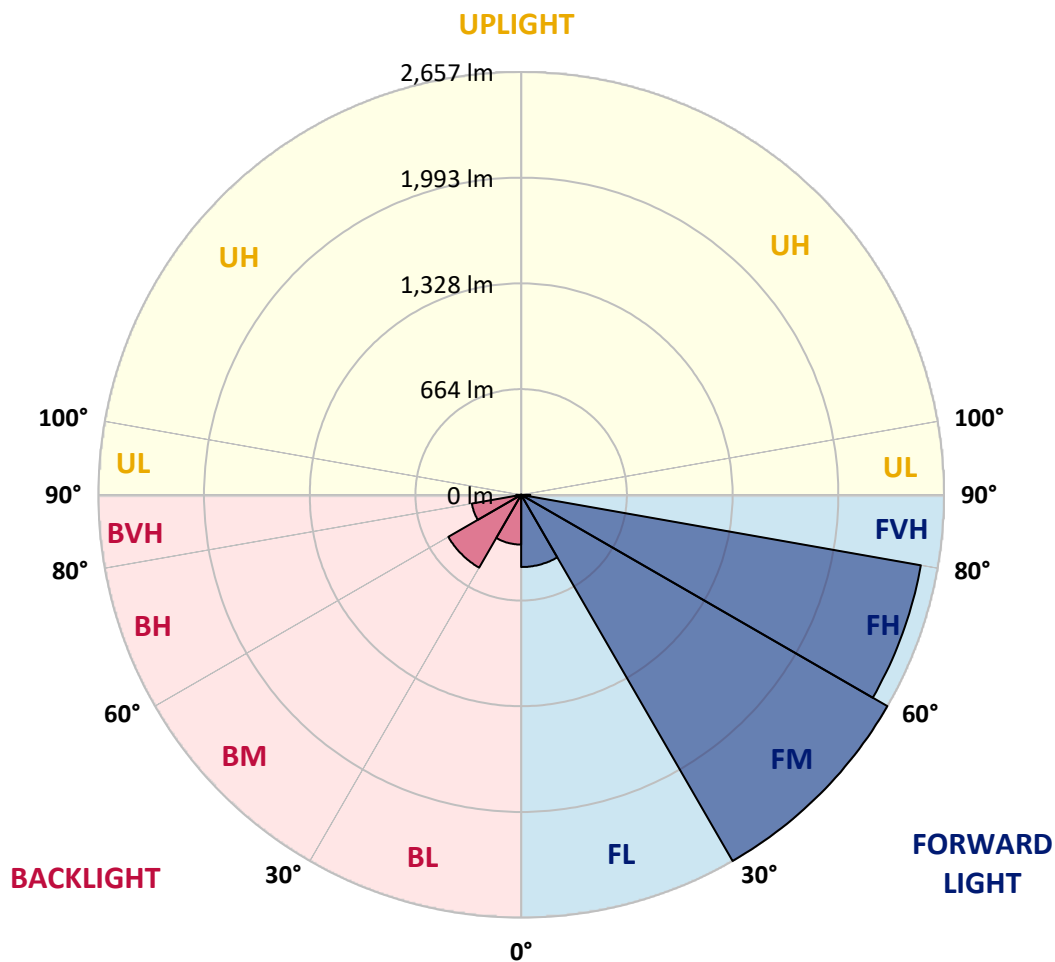
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	454.0	6.6			
FM	(30°-60°)	2656.7	38.5			
FH	(60°-80°)	2550.0	36.9			G2/5000
FVH	(80°-90°)	56.8	0.8			G1/100
BL	(0°-30°)	312.9	4.5	B1/500		
BM	(30°-60°)	528.3	7.7	B1/1000		
BH	(60°-80°)	314.6	4.6	B1/500		G1/500
BVH	(80°-90°)	30.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1
2.5°	911.1	915.3	915.7	928.1	933.7	947.8	963.1	976.8	988.8	993.0	1000.8
5°	819.8	819.8	821.0	829.2	845.0	867.6	899.6	934.6	971.3	980.2	1002.8
7.5°	772.0	772.8	773.7	781.8	794.1	814.3	846.2	894.1	955.0	970.0	1009.7
10°	776.2	775.0	770.7	769.0	774.1	787.0	814.7	863.7	941.4	964.4	1022.0
12.5°	843.2	840.7	826.6	806.1	787.4	782.7	801.9	848.3	935.0	964.4	1043.0
15°	958.0	959.7	932.0	889.4	840.3	807.0	804.4	842.8	932.8	967.0	1067.2
17.5°	1107.3	1108.3	1069.8	1007.9	926.5	857.7	821.9	842.8	932.8	969.6	1090.8
20°	1266.1	1260.2	1216.6	1139.0	1033.2	928.1	854.0	847.9	935.4	973.4	1113.0
22.5°	1402.3	1396.7	1351.1	1269.6	1148.4	1011.4	897.0	865.0	949.5	989.2	1144.1
25°	1521.3	1524.7	1480.4	1388.7	1263.1	1105.3	961.5	904.3	979.0	1017.7	1182.5
27.5°	1666.0	1659.6	1608.4	1520.9	1381.4	1202.6	1042.1	953.8	1013.9	1052.3	1229.5
30°	1833.3	1830.3	1761.1	1671.1	1511.5	1311.4	1121.9	1007.1	1059.6	1099.7	1288.3
32.5°	2036.4	2036.0	1961.7	1851.2	1657.9	1434.3	1216.2	1080.1	1126.2	1166.7	1366.5
35°	2266.4	2266.0	2189.2	2043.2	1826.5	1570.4	1327.2	1168.8	1208.5	1251.2	1459.4
37.5°	2426.0	2423.5	2383.4	2241.7	2013.0	1728.7	1465.9	1288.3	1302.0	1349.8	1571.7
40°	2456.7	2472.2	2506.6	2423.1	2216.5	1904.5	1605.0	1416.8	1429.6	1491.1	1712.9
42.5°	2423.5	2443.5	2558.3	2581.8	2420.1	2117.5	1779.1	1594.8	1610.9	1687.4	1879.0
45°	2394.4	2411.9	2555.7	2669.7	2621.0	2349.6	1996.3	1812.0	1842.6	1937.4	2068.4
47.5°	2344.9	2361.2	2505.4	2685.5	2735.9	2573.2	2257.9	2073.1	2126.0	2240.8	2284.4
50°	2342.4	2349.6	2436.7	2632.6	2775.6	2743.1	2547.7	2378.7	2459.8	2592.1	2523.3
52.5°	2277.5	2328.3	2407.2	2548.1	2776.4	2842.1	2833.2	2713.7	2838.7	2985.1	2785.4
55°	1880.7	1939.1	2309.1	2506.6	2771.3	2927.1	3093.9	3070.0	3265.5	3419.5	3079.0
57.5°	1756.0	1780.8	2025.7	2519.0	2813.9	3067.4	3354.7	3452.8	3753.6	3921.8	3431.0
60°	1721.9	1747.9	1969.0	2525.1	2929.6	3323.1	3708.4	3885.1	4327.6	4506.0	3830.8
62.5°	1683.9	1717.6	1973.3	2530.6	3132.7	3701.1	4177.8	4354.1	4916.9	5076.1	4205.6
65°	1573.0	1617.8	1894.3	2495.6	3355.1	4175.7	4798.3	4843.1	5403.8	5505.0	4431.7
67°	1362.6	1411.7	1677.5	2293.4	3334.5	4495.3	5294.6	5149.0	5610.8	5623.2	4358.3
67.5°	1296.0	1346.8	1604.1	2209.3	3276.1	4537.1	5382.5	5191.3	5609.0	5595.4	4290.1
70°	872.7	929.9	1136.0	1622.1	2627.9	4222.6	5361.2	5061.2	5241.2	5084.6	3685.8
72.5°	433.1	434.9	566.7	888.4	1592.2	3028.5	4472.2	4329.7	4248.6	3952.9	2704.7
75°	208.7	212.5	267.6	392.6	671.3	1563.6	3049.9	2921.4	2487.5	2153.7	1353.7
77.5°	159.2	163.1	207.9	255.6	280.0	509.9	1510.7	1220.9	720.8	575.7	381.5
80°	122.9	130.1	175.4	196.3	185.3	204.4	475.0	373.8	280.4	257.4	189.0
82.5°	96.1	100.2	148.9	148.9	128.1	137.0	221.1	215.9	174.1	157.0	101.6
85°	67.8	76.4	119.9	111.0	84.1	84.9	132.3	126.7	89.6	72.1	39.7
87.5°	30.3	38.9	85.3	72.5	44.8	34.6	54.2	46.5	35.4	27.3	18.3
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1	1016.1
2.5°	1009.2	1016.1	1026.7	1033.2	1041.7	1045.0	1048.5	1054.5	1059.2	1057.9	1055.8
5°	1018.7	1030.1	1043.4	1047.6	1047.6	1043.4	1040.9	1041.3	1039.9	1039.1	1036.6
7.5°	1032.3	1048.1	1057.4	1053.2	1039.9	1023.4	1007.5	998.2	989.2	983.7	985.3
10°	1051.5	1069.0	1069.4	1050.7	1019.1	982.7	951.7	931.6	912.4	903.9	906.4
12.5°	1079.2	1096.7	1081.8	1041.3	985.8	929.0	871.9	830.4	793.3	784.4	781.8
15°	1109.1	1122.8	1089.4	1021.2	937.9	844.5	748.5	686.6	645.3	638.0	635.5
17.5°	1135.2	1142.8	1085.7	985.3	862.4	715.2	603.4	561.6	553.0	557.3	557.3
20°	1158.2	1155.6	1069.0	929.9	743.4	571.8	507.0	506.6	518.0	528.8	529.6
22.5°	1187.2	1167.2	1042.5	847.5	601.3	477.1	466.0	477.1	489.9	501.9	503.1
25°	1221.8	1180.0	1007.1	730.2	483.5	433.1	437.8	447.2	455.3	464.7	465.1
27.5°	1256.3	1189.8	957.2	592.3	419.5	405.0	410.1	414.0	416.0	422.1	422.1
30°	1296.5	1197.5	885.1	474.5	390.1	380.2	377.3	375.5	377.3	385.3	385.8
32.5°	1346.8	1211.1	786.4	407.1	376.3	362.7	347.4	338.8	344.8	359.4	361.9
35°	1404.0	1227.3	668.3	380.2	371.7	354.1	326.0	312.8	315.0	328.2	330.3
37.5°	1475.7	1248.2	551.8	373.8	376.3	353.3	316.2	297.5	288.1	288.5	288.1
40°	1567.5	1269.2	459.6	375.5	386.7	355.5	311.5	282.0	262.5	263.3	265.0
42.5°	1663.4	1282.8	401.1	380.6	399.1	358.4	309.9	267.1	250.1	264.5	277.8
45°	1775.6	1279.0	370.8	385.3	408.4	359.8	303.4	265.5	251.3	294.9	319.7
47.5°	1904.5	1262.3	353.7	387.5	410.9	359.4	298.7	271.0	262.0	337.6	365.7
50°	2044.5	1236.2	340.1	384.1	409.7	357.6	303.8	277.8	266.3	347.0	368.7
52.5°	2197.7	1212.4	326.0	376.3	403.2	352.5	310.3	274.9	254.3	319.7	336.2
55°	2379.1	1206.8	310.3	363.1	392.6	347.0	306.8	265.5	241.1	283.4	293.6
57.5°	2586.5	1241.4	289.8	347.0	378.1	335.8	298.7	260.3	236.4	257.8	263.3
60°	2849.7	1317.8	268.0	329.9	360.2	319.2	291.4	261.6	237.7	253.9	255.2
62.5°	3055.5	1386.5	248.4	308.9	336.2	299.1	283.8	262.9	241.5	259.0	256.9
65°	3130.1	1352.8	224.0	277.8	302.6	276.9	273.1	263.7	241.5	262.0	257.4
67°	2977.0	1191.8	201.0	246.6	270.6	257.4	262.9	260.3	237.2	261.6	253.5
67.5°	2904.0	1135.2	195.0	241.5	262.0	251.3	260.3	258.6	236.0	260.8	251.3
70°	2394.8	814.3	164.7	202.7	219.3	221.5	244.5	247.6	225.8	245.0	227.9
72.5°	1703.9	509.5	142.1	157.0	177.1	189.5	223.2	232.6	212.1	213.0	198.9
75°	843.2	273.5	126.7	121.2	137.8	157.9	194.6	212.1	192.0	177.5	172.9
77.5°	284.7	154.9	107.1	97.7	107.1	126.7	161.3	185.3	169.4	150.2	147.2
80°	147.2	112.6	83.7	78.6	84.5	98.1	126.3	154.1	144.6	145.6	119.9
82.5°	91.8	68.7	60.1	59.7	64.0	75.1	93.0	125.0	124.2	106.3	77.2
85°	42.7	39.7	38.4	39.7	40.9	42.7	60.6	89.2	94.3	57.2	50.7
87.5°	17.9	17.5	15.3	16.7	18.3	17.9	24.3	38.0	52.9	35.8	32.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)