

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: P198782

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198782  
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  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6293.2 lumens  
Efficiency: N/A  
Efficacy: 108.5 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

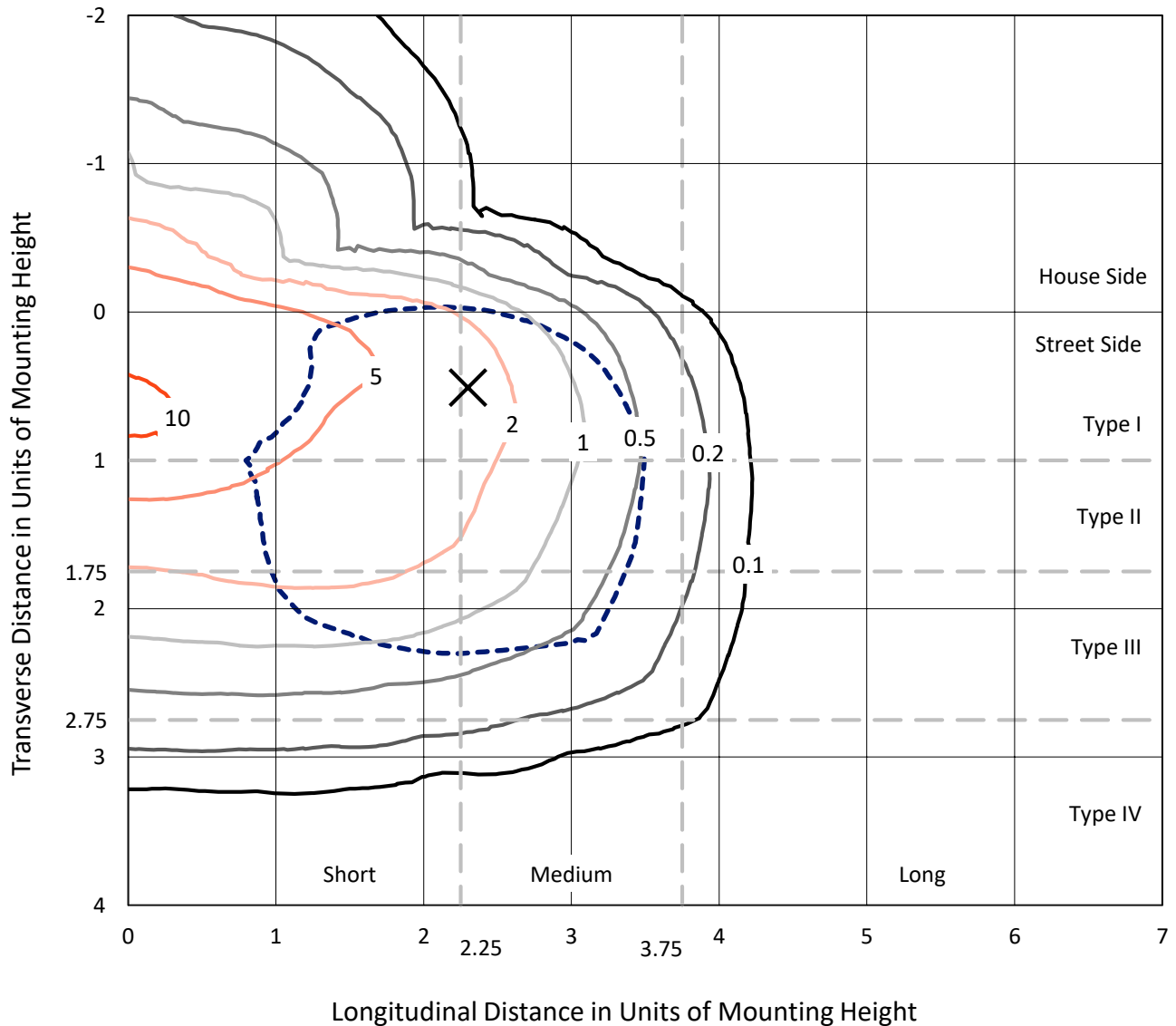
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

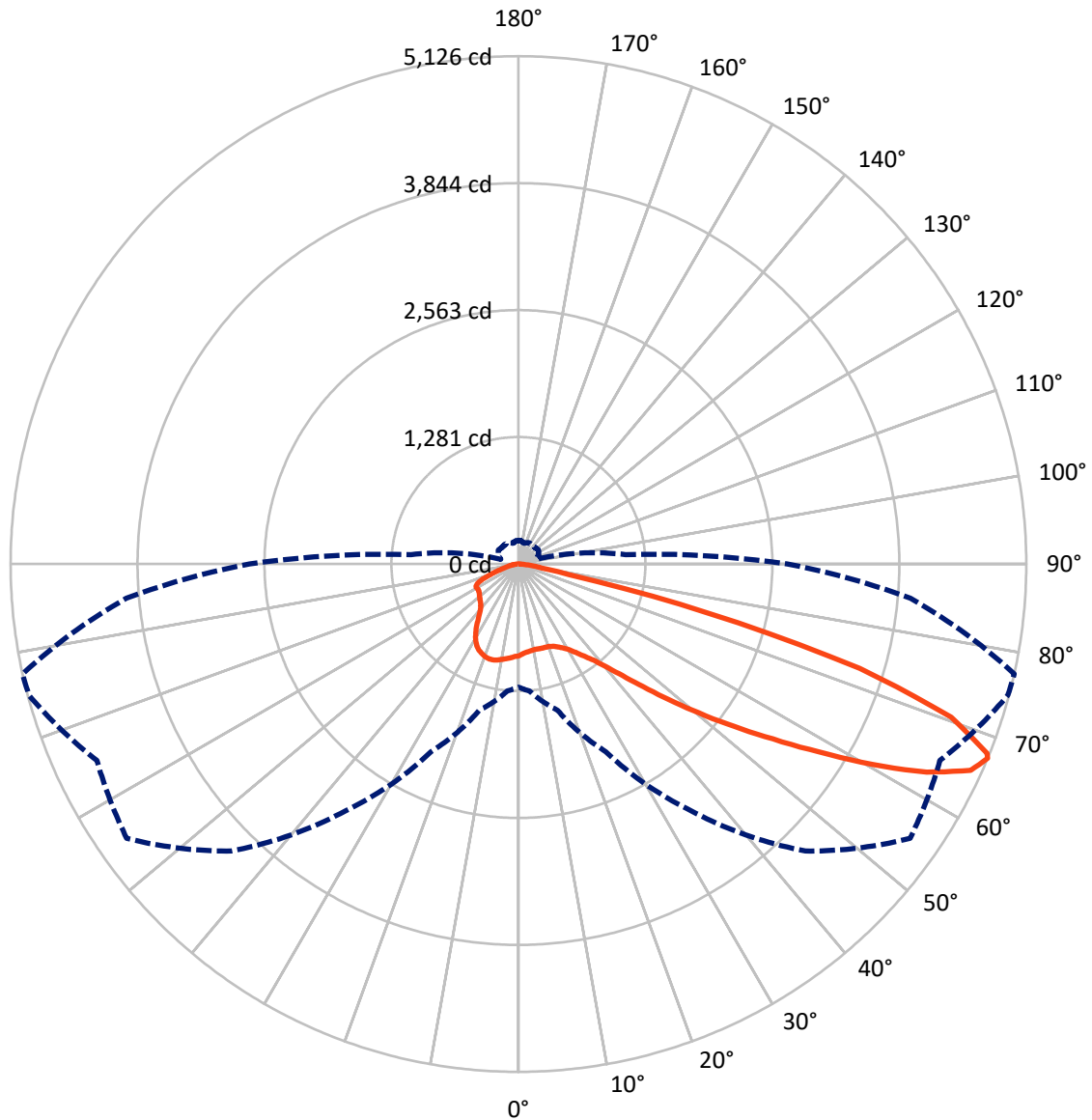


Based on 10 foot mounting height. Maximum calculated value = 11.1 fc  
 Type III - Medium - Full Cutoff

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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	1081.5	0.0	1081.5
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	5211.7	0.0	5211.7
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	6293.2	0.0	6293.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.5	1.3
10°-20°	228.4	3.6
20°-30°	388.2	6.2
30°-40°	621.0	9.9
40°-50°	956.0	15.2
50°-60°	1326.3	21.1
60°-70°	1769.2	28.1
70°-80°	842.0	13.4
80°-90°	79.7	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°	6293.2	100.0
0°-180°	6293.2	100.0

**Coefficient of Utilization**



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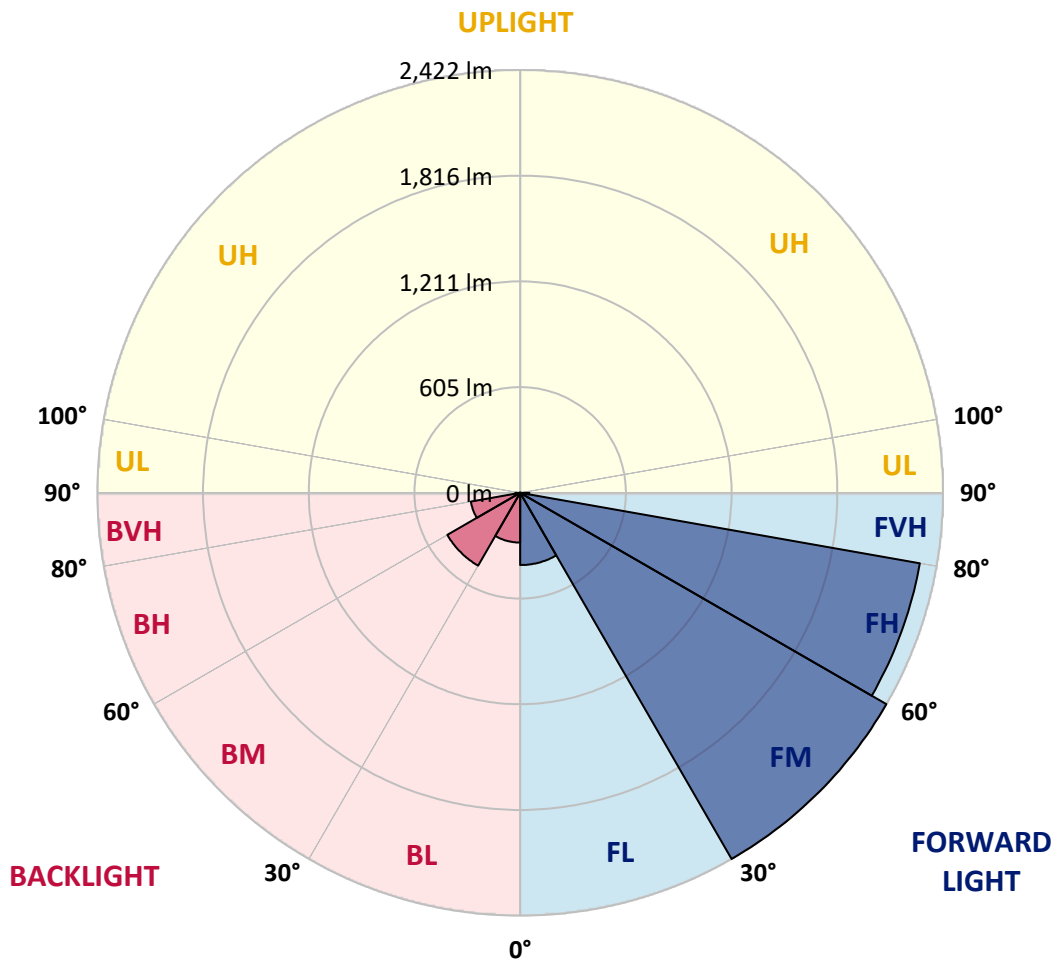
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	413.8	6.6			
FM	(30°-60°)	2421.7	38.5			
FH	(60°-80°)	2324.4	36.9			G2/5000
FVH	(80°-90°)	51.8	0.8			G1/100
BL	(0°-30°)	285.3	4.5	B1/500		
BM	(30°-60°)	481.5	7.7	B1/1000		
BH	(60°-80°)	286.8	4.6	B1/500		G1/500
BVH	(80°-90°)	27.9	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°	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2
2.5°	830.5	834.4	834.8	846.1	851.1	864.0	878.0	890.4	901.3	905.2	912.2
5°	747.3	747.3	748.4	755.9	770.2	790.8	820.0	851.9	885.4	893.5	914.1
7.5°	703.7	704.5	705.2	712.6	723.9	742.2	771.4	815.0	870.5	884.1	920.3
10°	707.6	706.4	702.6	700.9	705.6	717.3	742.6	787.4	858.2	879.1	931.6
12.5°	768.6	766.3	753.5	734.8	717.7	713.4	730.9	773.4	852.3	879.1	950.7
15°	873.3	874.8	849.6	810.7	765.9	735.6	733.3	768.2	850.4	881.5	972.8
17.5°	1009.4	1010.3	975.2	918.8	844.5	781.8	749.2	768.2	850.4	883.8	994.3
20°	1154.1	1148.7	1109.0	1038.2	941.7	846.1	778.4	772.9	852.6	887.3	1014.5
22.5°	1278.3	1273.2	1231.5	1157.3	1046.8	921.9	817.6	788.5	865.5	901.7	1042.9
25°	1386.7	1389.9	1349.4	1265.8	1151.4	1007.5	876.4	824.3	892.3	927.7	1077.9
27.5°	1518.7	1512.8	1466.1	1386.4	1259.2	1096.2	949.9	869.4	924.2	959.2	1120.6
30°	1671.1	1668.4	1605.4	1523.3	1377.8	1195.4	1022.6	918.0	965.9	1002.4	1174.3
32.5°	1856.2	1855.8	1788.2	1687.5	1511.2	1307.4	1108.7	984.6	1026.5	1063.5	1245.5
35°	2066.0	2065.5	1995.6	1862.5	1664.9	1431.5	1209.7	1065.4	1101.6	1140.5	1330.3
37.5°	2211.4	2209.1	2172.5	2043.3	1834.9	1575.9	1336.2	1174.3	1186.8	1230.4	1432.6
40°	2239.4	2253.5	2285.0	2208.7	2020.4	1736.0	1463.0	1291.5	1303.1	1359.1	1561.4
42.5°	2209.1	2227.4	2332.0	2353.4	2206.0	1930.2	1621.7	1453.7	1468.4	1538.1	1712.7
45°	2182.7	2198.6	2329.7	2433.5	2389.2	2141.8	1819.7	1651.7	1679.7	1766.0	1885.4
47.5°	2137.6	2152.3	2283.7	2447.9	2493.9	2345.6	2058.2	1889.7	1938.0	2042.6	2082.3
50°	2135.2	2141.8	2221.1	2399.7	2530.0	2500.4	2322.3	2168.2	2242.2	2362.7	2300.1
52.5°	2076.1	2122.3	2194.3	2322.7	2530.8	2590.7	2582.5	2473.6	2587.6	2721.0	2539.0
55°	1714.3	1767.6	2104.8	2285.0	2526.1	2668.1	2820.2	2798.4	2976.6	3117.0	2806.6
57.5°	1600.7	1623.2	1846.5	2296.2	2565.0	2796.1	3057.9	3147.3	3421.6	3574.8	3127.5
60°	1569.6	1593.3	1794.8	2301.6	2670.4	3029.1	3380.3	3541.4	3944.8	4107.4	3491.9
62.5°	1534.9	1565.7	1798.7	2306.8	2855.6	3373.7	3808.2	3968.9	4482.0	4627.1	3833.5
65°	1433.9	1474.7	1726.7	2274.8	3058.2	3806.3	4373.8	4414.6	4925.8	5018.0	4039.7
67°	1242.1	1286.8	1529.1	2090.4	3039.6	4097.6	4826.3	4693.6	5114.4	5125.8	3972.8
67.5°	1181.4	1227.6	1462.2	2013.8	2986.3	4135.8	4906.4	4732.1	5112.9	5100.4	3910.5
70°	795.4	847.6	1035.5	1478.6	2395.4	3849.1	4886.9	4613.5	4777.6	4634.9	3359.8
72.5°	394.9	396.4	516.6	809.9	1451.4	2760.6	4076.7	3946.7	3872.8	3603.2	2465.4
75°	190.2	193.7	243.9	357.8	611.9	1425.3	2780.2	2663.0	2267.5	1963.2	1233.9
77.5°	145.1	148.6	189.5	233.0	255.2	464.8	1377.0	1112.9	657.0	524.8	347.8
80°	112.0	118.7	159.9	178.9	168.8	186.3	432.9	340.7	255.5	234.6	172.4
82.5°	87.6	91.5	135.7	135.7	116.7	124.9	201.5	196.8	158.7	143.1	92.6
85°	61.9	69.7	109.4	101.2	76.6	77.4	120.6	115.5	81.7	65.8	36.2
87.5°	27.6	35.4	77.8	66.1	40.8	31.5	49.4	42.4	32.3	24.9	16.8
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°	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2
2.5°	919.9	926.2	935.9	941.7	949.5	952.7	955.7	961.2	965.5	964.3	962.4
5°	928.5	939.1	951.0	955.0	955.0	951.0	948.8	949.1	948.0	947.2	944.9
7.5°	941.0	955.3	963.9	960.0	948.0	932.8	918.4	909.8	901.7	896.6	898.2
10°	958.5	974.5	974.8	957.7	928.9	895.9	867.5	849.2	831.7	823.9	826.2
12.5°	983.8	999.7	986.1	949.1	898.6	846.8	794.7	757.0	723.1	714.9	712.6
15°	1011.0	1023.5	993.1	930.9	855.0	769.8	682.3	625.8	588.2	581.5	579.2
17.5°	1034.7	1041.8	989.6	898.2	786.1	651.9	550.0	511.9	504.1	508.0	508.0
20°	1055.7	1053.4	974.5	847.6	677.6	521.3	462.2	461.8	472.2	481.9	482.7
22.5°	1082.2	1063.9	950.3	772.5	548.1	434.9	424.8	434.9	446.5	457.5	458.6
25°	1113.7	1075.5	918.0	665.5	440.7	394.9	399.2	407.6	415.0	423.6	424.0
27.5°	1145.2	1084.5	872.5	539.9	382.4	369.2	373.8	377.4	379.3	384.7	384.7
30°	1181.7	1091.5	806.8	432.6	355.6	346.6	343.9	342.3	343.9	351.3	351.7
32.5°	1227.6	1104.0	716.9	371.1	343.1	330.6	316.6	308.8	314.4	327.5	329.9
35°	1279.8	1118.7	609.2	346.6	338.8	322.8	297.2	285.1	287.0	299.1	301.1
37.5°	1345.2	1137.8	503.0	340.7	343.1	322.1	288.3	271.1	262.6	263.0	262.6
40°	1428.8	1156.9	418.9	342.3	352.4	324.1	284.0	257.2	239.3	240.0	241.5
42.5°	1516.3	1169.3	365.6	347.0	363.7	326.7	282.4	243.5	227.9	241.2	253.3
45°	1618.6	1165.9	338.1	351.3	372.3	328.0	276.6	241.9	229.1	268.8	291.3
47.5°	1736.0	1150.6	322.4	353.2	374.6	327.5	272.3	247.0	238.9	307.7	333.4
50°	1863.7	1126.9	310.1	350.1	373.5	326.0	276.9	253.3	242.7	316.3	336.0
52.5°	2003.3	1105.1	297.2	343.1	367.6	321.3	282.8	250.5	231.8	291.3	306.5
55°	2168.7	1100.1	282.8	331.0	357.8	316.3	279.7	241.9	219.8	258.3	267.6
57.5°	2357.7	1131.6	264.1	316.3	344.6	306.2	272.3	237.3	215.5	235.0	240.0
60°	2597.7	1201.3	244.3	300.6	328.3	290.9	265.7	238.4	216.7	231.5	232.6
62.5°	2785.2	1263.9	226.4	281.6	306.5	272.7	258.7	239.6	220.1	236.1	234.2
65°	2853.2	1233.1	204.2	253.3	275.8	252.5	249.0	240.4	220.1	238.9	234.6
67°	2713.6	1086.5	183.2	224.8	246.6	234.6	239.6	237.3	216.3	238.4	231.1
67.5°	2647.1	1034.7	177.8	220.1	238.9	229.1	237.3	235.7	215.1	237.6	229.1
70°	2183.1	742.2	150.2	184.7	200.0	201.9	222.9	225.7	205.8	223.3	207.8
72.5°	1553.2	464.4	129.5	143.1	161.4	172.7	203.5	212.0	193.3	194.2	181.3
75°	768.6	249.4	115.5	110.5	125.6	143.9	177.4	193.3	175.0	161.8	157.5
77.5°	259.4	141.2	97.6	89.1	97.6	115.5	147.0	168.8	154.5	137.0	134.2
80°	134.2	102.7	76.2	71.6	77.0	89.5	115.2	140.5	131.9	132.7	109.4
82.5°	83.7	62.6	54.8	54.4	58.3	68.4	84.8	114.0	113.2	96.9	70.4
85°	38.9	36.2	35.0	36.2	37.3	38.9	55.2	81.3	85.9	52.2	46.3
87.5°	16.4	16.0	14.0	15.1	16.8	16.4	22.2	34.6	48.3	32.6	30.0
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)