

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: P198794

Luminaire Tested: **XNV-AF-01-LED-U-T4W-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24127)
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-T4W-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4028.4 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

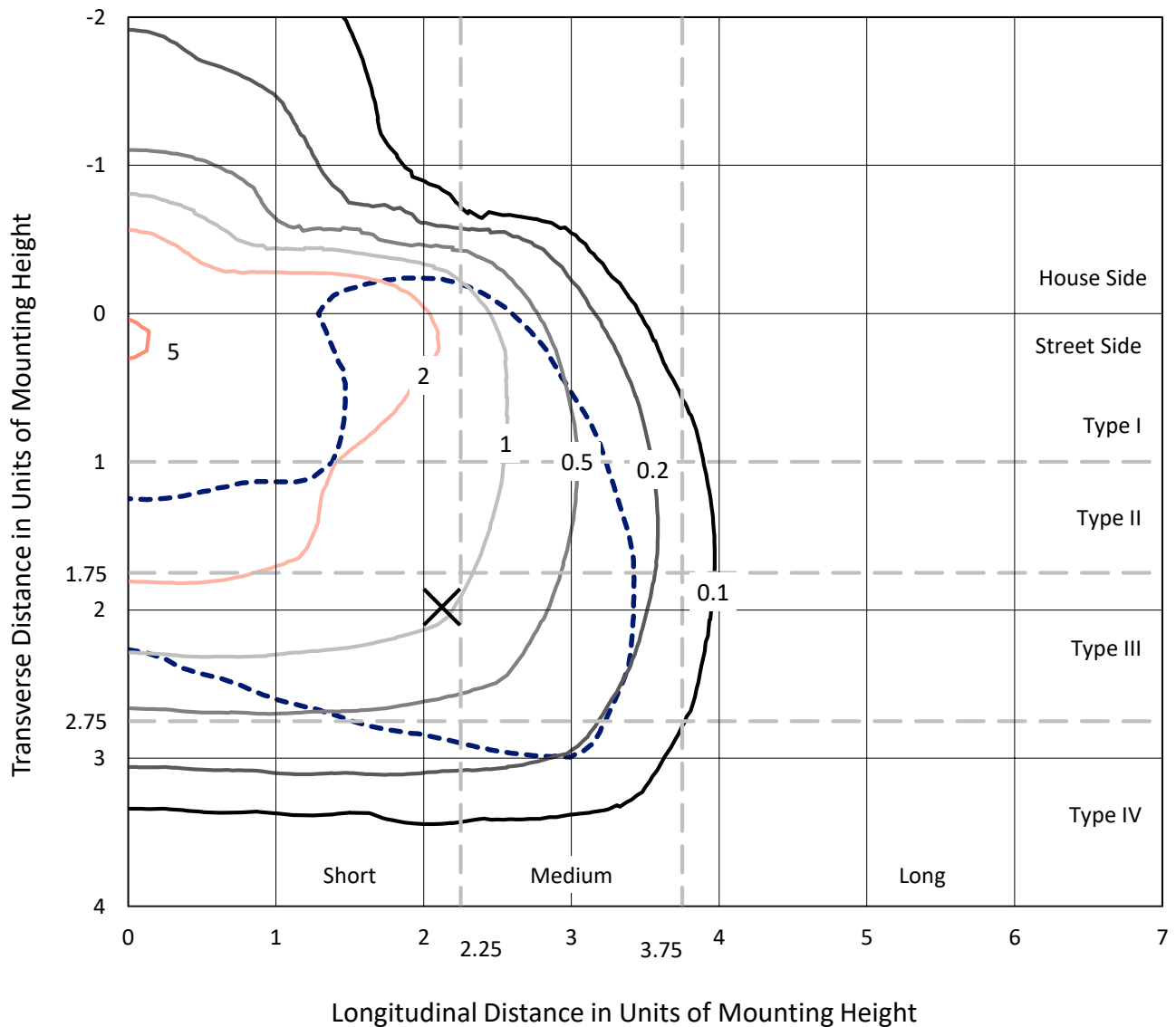
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P198794
 CATALOG NUMBER: XNV-AF-01-LED-U-T4W-600

Iso-Footcandle Lines of Horizontal Illumination

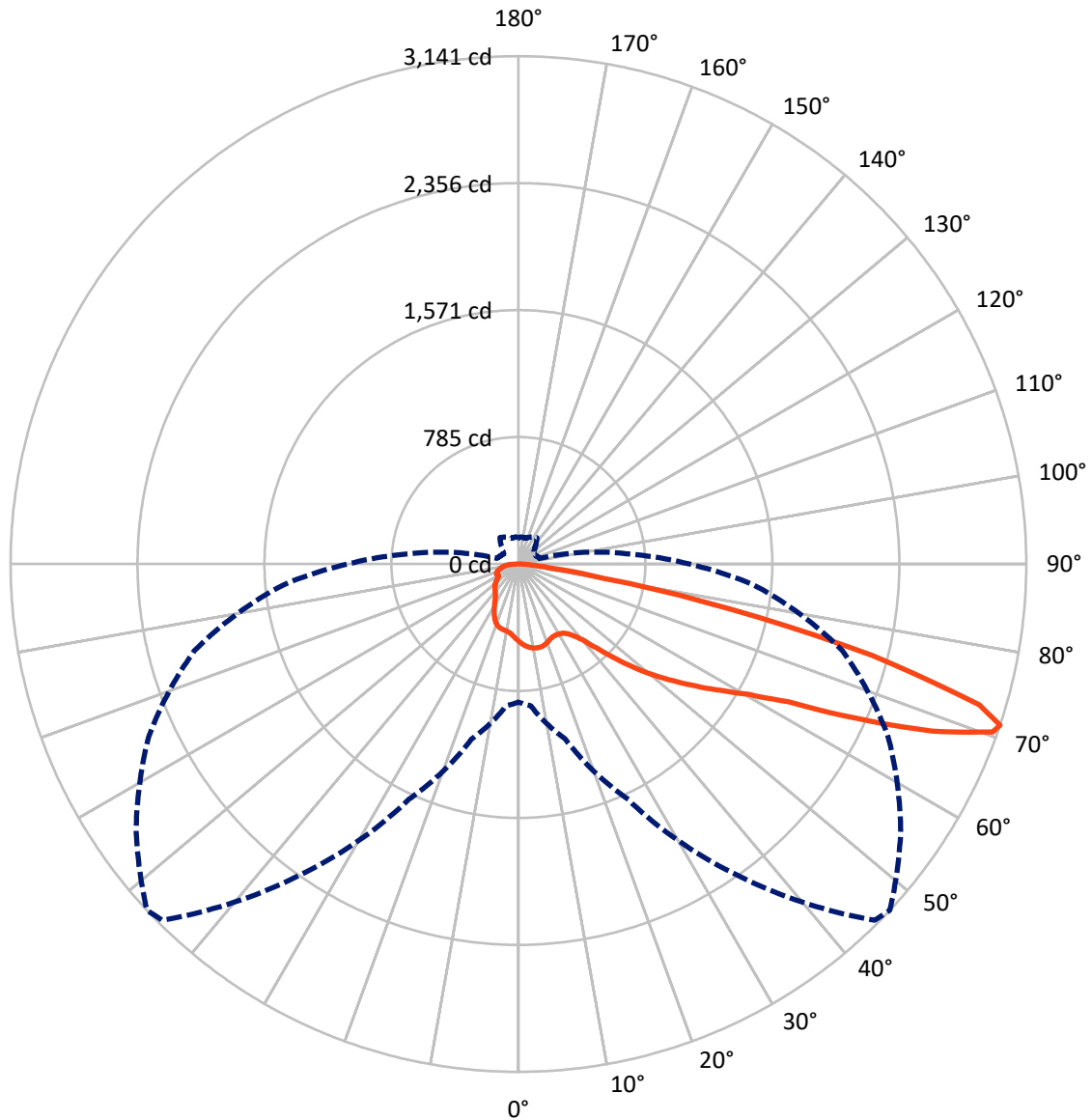
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P198794
CATALOG NUMBER: XNV-AF-01-LED-U-T4W-600

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P198794

CATALOG NUMBER: XNV-AF-01-LED-U-T4W-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	863.3	0.0	863.3
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	3165.0	0.0	3165.0
	% Fixture	78.6	0.0	78.6
Total	Lumens	4028.4	0.0	4028.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.7	1.1
10°-20°	133.8	3.3
20°-30°	198.8	4.9
30°-40°	285.5	7.1
40°-50°	506.2	12.6
50°-60°	866.2	21.5
60°-70°	1229.7	30.5
70°-80°	673.5	16.7
80°-90°	88.9	2.2
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°	4028.4	100.0
0°-180°	4028.4	100.0

Coefficient of Utilization



REPORT NUMBER: P198794

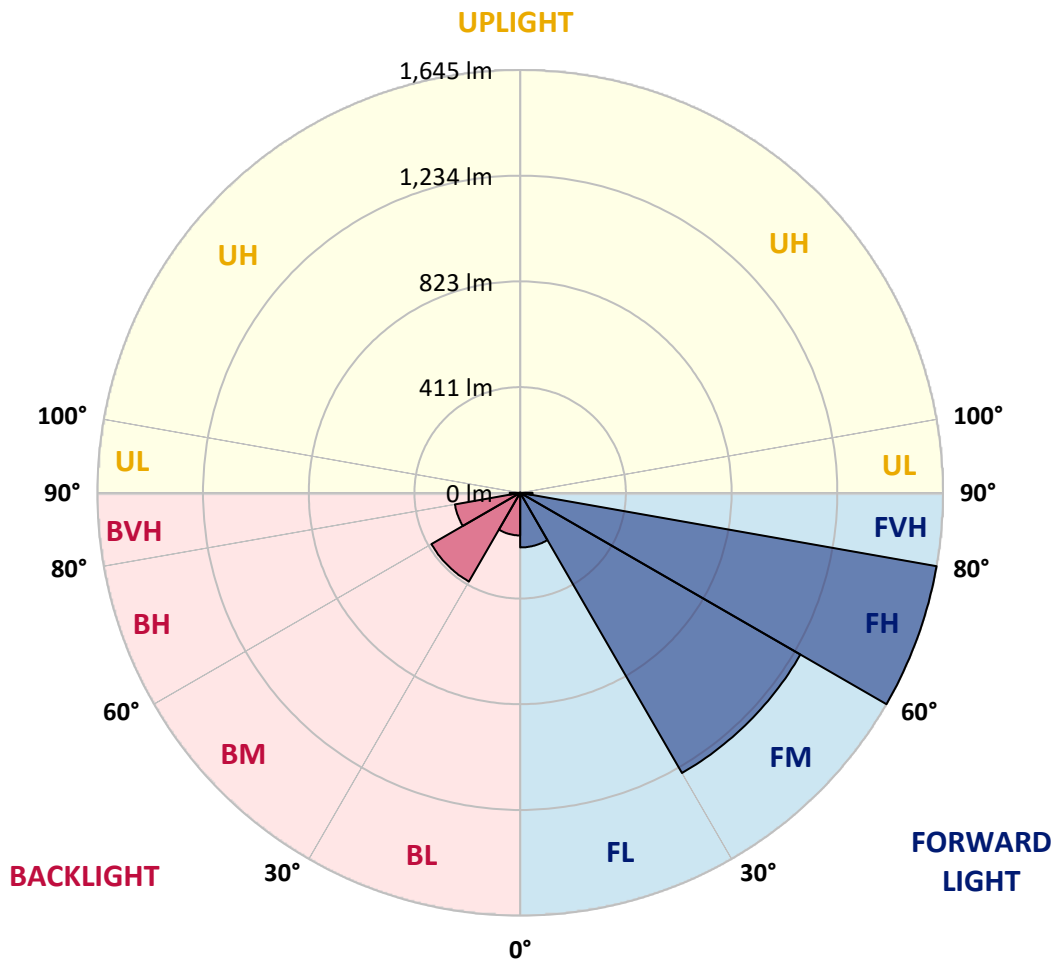
CATALOG NUMBER: XNV-AF-01-LED-U-T4W-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	212.6	5.3			
FM	(30°-60°)	1259.0	31.3			
FH	(60°-80°)	1645.2	40.8			G1/1800
FVH	(80°-90°)	48.2	1.2			G1/100
BL	(0°-30°)	165.8	4.1	B1/500		
BM	(30°-60°)	398.9	9.9	B1/1000		
BH	(60°-80°)	258.0	6.4	B1/500		G1/500
BVH	(80°-90°)	40.7	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





REPORT NUMBER: P198794

CATALOG NUMBER: XNV-AF-01-LED-U-T4W-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0
2.5°	508.3	507.3	507.8	506.0	501.5	496.7	496.7	491.8	486.6	481.4	475.7
5°	539.9	538.3	536.9	531.2	522.6	513.0	511.4	501.5	490.8	480.1	469.6
7.5°	566.2	564.7	560.8	550.3	537.8	523.4	521.6	508.5	494.5	479.6	464.9
10°	585.0	584.0	576.4	563.1	548.5	531.5	528.4	515.1	498.4	479.9	461.2
12.5°	595.5	593.9	584.8	569.1	551.9	534.7	531.5	518.7	499.7	479.3	457.7
15°	591.3	590.5	581.9	566.0	548.7	533.9	531.2	518.2	498.9	477.5	454.3
17.5°	573.6	575.4	568.6	552.9	538.8	528.4	525.5	513.2	495.0	473.0	449.0
20°	549.0	551.1	547.7	531.7	523.6	516.9	515.4	505.4	488.5	466.5	442.7
22.5°	522.9	524.8	525.0	510.1	507.5	504.9	503.6	496.5	482.7	462.6	438.5
25°	504.9	507.0	507.5	494.5	496.0	496.7	496.5	491.5	481.6	462.6	439.1
27.5°	500.2	501.2	500.7	488.7	491.5	496.0	496.2	495.2	485.8	467.8	446.4
30°	516.4	516.9	510.4	492.3	495.2	500.9	501.2	500.7	494.7	481.4	462.9
32.5°	586.4	585.8	563.3	516.9	507.0	509.0	509.8	514.5	515.1	503.8	486.6
35°	692.8	692.5	666.5	587.1	540.4	529.4	530.5	537.8	544.3	536.7	526.8
37.5°	810.1	810.9	794.9	687.3	612.4	566.7	565.7	571.2	583.0	585.5	586.9
40°	940.1	944.0	943.2	802.5	713.5	630.4	620.0	613.8	636.5	650.8	669.3
42.5°	1088.6	1087.6	1088.1	928.8	828.9	730.7	711.4	682.1	708.5	733.4	774.1
45°	1216.3	1220.5	1223.6	1063.3	958.1	845.3	825.7	772.4	796.3	833.3	895.4
47.5°	1344.7	1337.4	1343.1	1212.9	1101.9	976.1	950.7	879.0	901.2	953.4	1047.9
50°	1494.3	1491.0	1464.8	1408.2	1275.8	1108.7	1075.5	990.2	1022.5	1092.3	1236.1
52.5°	1628.4	1610.2	1589.9	1561.6	1446.8	1242.9	1200.8	1105.8	1165.3	1251.8	1469.8
55°	1677.5	1665.3	1689.8	1726.3	1627.7	1379.7	1332.7	1240.8	1326.5	1434.3	1744.6
57.5°	1729.8	1733.9	1789.2	1863.2	1799.0	1525.6	1474.7	1400.6	1503.1	1638.4	2051.9
60°	1755.9	1772.6	1883.0	2021.7	1961.8	1685.6	1636.8	1584.1	1699.2	1863.9	2358.4
62.5°	1760.3	1782.8	1939.1	2077.2	2186.1	1930.8	1874.4	1817.3	1944.1	2113.3	2580.3
65°	1678.9	1713.3	1934.2	2145.6	2390.5	2340.4	2304.6	2204.9	2272.0	2332.8	2618.1
67.5°	1439.5	1477.0	1742.8	2117.4	2554.4	2765.3	2758.6	2611.4	2525.3	2417.6	2337.5
70°	1056.5	1086.8	1342.1	1810.2	2482.9	3099.0	3111.0	2874.8	2595.9	2237.5	1738.1
71°	854.5	880.6	1121.3	1607.1	2343.5	3116.2	3141.3	2886.6	2522.4	2074.9	1455.1
72.5°	531.7	546.4	744.5	1212.9	2018.0	2938.7	2981.0	2736.2	2290.5	1753.7	1028.6
75°	200.7	206.5	276.2	534.9	1204.5	2207.7	2259.0	2067.8	1609.2	1001.2	430.5
77.5°	107.8	110.7	137.1	222.4	482.7	1265.6	1331.4	1179.5	771.9	350.4	175.9
80°	72.3	74.2	94.7	131.9	221.9	481.9	536.7	473.5	289.0	200.0	125.3
82.5°	46.7	47.8	64.4	86.6	143.3	169.4	193.4	202.0	180.3	143.3	75.7
85°	30.8	31.6	42.6	55.3	88.8	83.6	85.6	112.0	123.0	94.5	38.7
87.5°	17.8	18.3	25.6	28.4	39.9	31.3	34.0	53.3	73.1	61.6	22.2
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: P198794

CATALOG NUMBER: XNV-AF-01-LED-U-T4W-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0
2.5°	473.0	471.0	466.3	463.4	462.1	461.6	461.0	462.1	462.1	461.6	460.5
5°	464.4	460.5	452.7	447.2	444.4	443.6	444.6	445.9	446.6	446.6	445.9
7.5°	458.2	452.5	442.0	434.4	429.9	428.6	431.5	436.2	439.4	440.9	441.2
10°	453.0	445.1	433.6	425.8	422.2	421.6	425.2	431.3	437.8	440.7	441.2
12.5°	448.3	439.4	426.9	419.5	417.0	418.2	423.2	428.6	436.2	440.4	440.7
15°	443.8	434.7	421.4	413.8	413.3	415.3	420.0	424.5	430.3	435.5	435.5
17.5°	438.5	428.6	414.8	407.7	407.7	409.6	412.8	415.1	418.7	423.7	423.4
20°	432.3	422.2	408.1	400.7	399.2	398.1	398.1	398.6	401.8	406.2	407.0
22.5°	427.6	417.2	402.3	393.4	386.4	379.6	376.8	375.6	378.5	382.7	383.7
25°	427.6	417.2	400.5	385.6	368.4	355.3	349.8	348.2	351.1	355.1	356.6
27.5°	434.7	424.2	404.7	378.5	347.0	326.0	319.6	318.2	320.8	324.0	325.5
30°	451.1	440.9	416.6	370.4	323.2	295.7	288.5	287.1	288.5	289.8	291.6
32.5°	478.5	469.9	436.2	363.1	299.2	268.3	259.5	257.4	257.9	258.2	259.7
35°	523.1	519.2	462.4	354.6	276.5	245.9	236.8	232.6	232.3	233.6	235.5
37.5°	591.6	593.9	496.0	342.0	257.7	230.0	220.9	216.7	214.6	217.2	219.3
40°	688.1	693.7	534.9	325.0	242.2	220.5	210.9	207.0	204.2	203.4	204.4
42.5°	813.8	812.1	574.6	303.3	225.6	214.3	204.2	200.0	195.3	189.2	187.9
45°	962.5	940.1	607.7	276.7	206.5	208.4	197.8	192.1	184.8	175.9	174.9
47.5°	1138.2	1076.3	628.1	248.3	188.7	200.5	190.9	182.0	171.2	165.5	164.7
50°	1349.9	1235.8	642.5	219.3	172.8	190.6	181.0	169.2	158.8	157.1	156.9
52.5°	1600.5	1424.0	660.2	193.1	160.3	177.8	171.0	159.0	150.7	151.4	151.4
55°	1867.1	1618.8	660.7	172.6	149.4	162.9	163.7	154.1	147.5	150.1	150.9
57.5°	2110.1	1789.0	608.8	157.9	138.9	151.2	161.3	155.9	150.9	160.0	160.8
60°	2322.1	1920.1	497.1	146.0	130.2	146.7	166.5	167.0	166.0	190.9	192.6
62.5°	2399.6	1921.4	352.9	135.7	125.6	149.4	177.5	178.3	178.3	201.3	204.7
65°	2291.0	1761.3	235.0	129.7	122.4	155.1	186.4	183.0	174.9	190.9	187.2
67.5°	1908.3	1371.1	171.8	125.8	118.0	155.3	194.3	185.6	171.8	185.4	179.1
70°	1311.5	872.5	143.8	122.1	112.7	148.5	198.5	184.8	167.0	172.8	164.5
71°	1055.7	696.2	136.6	120.9	110.7	144.6	199.0	183.8	164.7	168.4	160.8
72.5°	695.5	428.9	127.7	118.0	107.5	137.8	197.6	181.5	161.6	161.8	156.9
75°	274.4	177.8	114.9	111.5	98.7	126.8	191.9	176.5	155.6	150.4	148.3
77.5°	138.6	116.2	101.1	102.3	88.3	115.7	183.8	168.4	147.2	140.1	138.6
80°	101.3	88.3	86.4	88.8	76.5	104.6	173.6	157.4	136.6	143.8	140.8
82.5°	61.6	53.8	67.6	73.3	63.9	93.5	161.6	144.6	123.0	113.3	109.7
85°	29.3	31.6	48.8	54.0	47.3	74.7	147.7	130.5	107.3	92.7	94.2
87.5°	14.3	17.5	27.9	32.3	31.1	54.8	111.5	101.3	84.6	69.7	68.1
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)