

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: P198786

Luminaire Tested: **XNV-AF-01-LED-U-T4FT-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24256)
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-T4FT-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4108.2 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

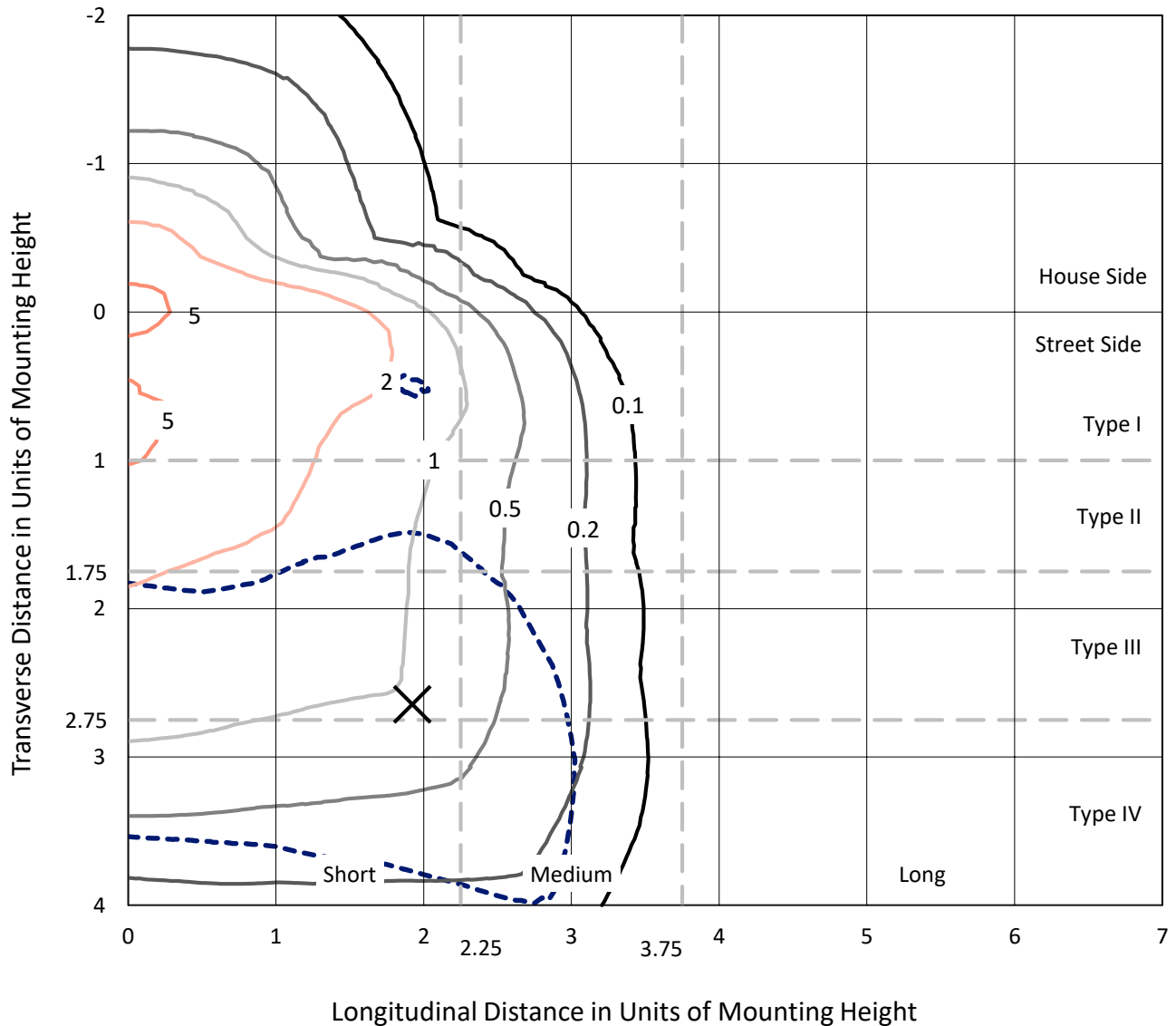
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

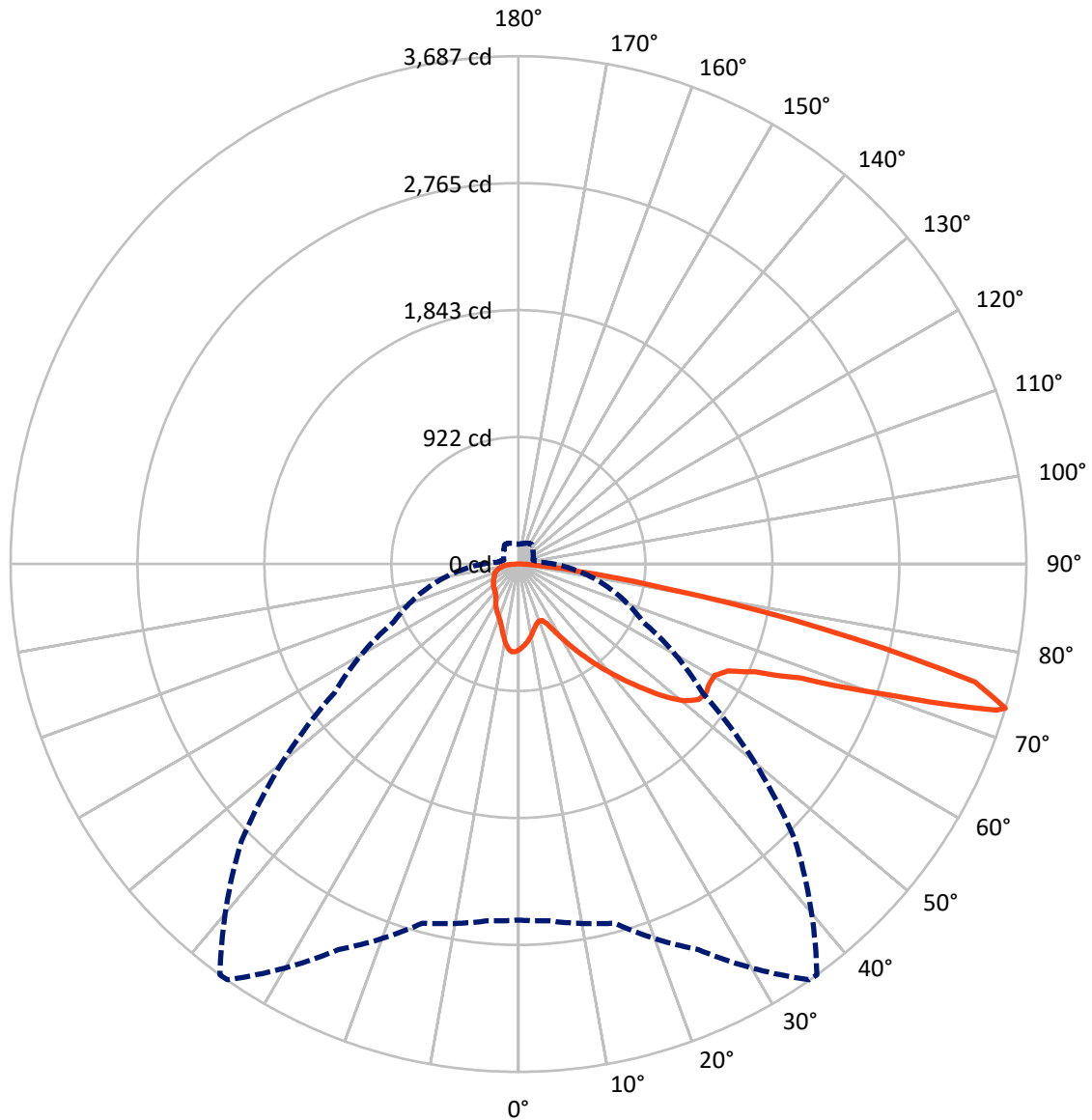


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P198786

CATALOG NUMBER: XNV-AF-01-LED-U-T4FT-600

Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	792.2	0.0	792.2
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	3316.0	0.0	3316.0
	% Fixture	80.7	0.0	80.7
Total	Lumens	4108.2	0.0	4108.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	1.4
10°-20°	142.0	3.5
20°-30°	227.6	5.5
30°-40°	376.4	9.2
40°-50°	582.5	14.2
50°-60°	779.8	19.0
60°-70°	1018.7	24.8
70°-80°	832.1	20.3
80°-90°	92.6	2.3
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°	4108.2	100.0
0°-180°	4108.2	100.0



REPORT NUMBER: P198786

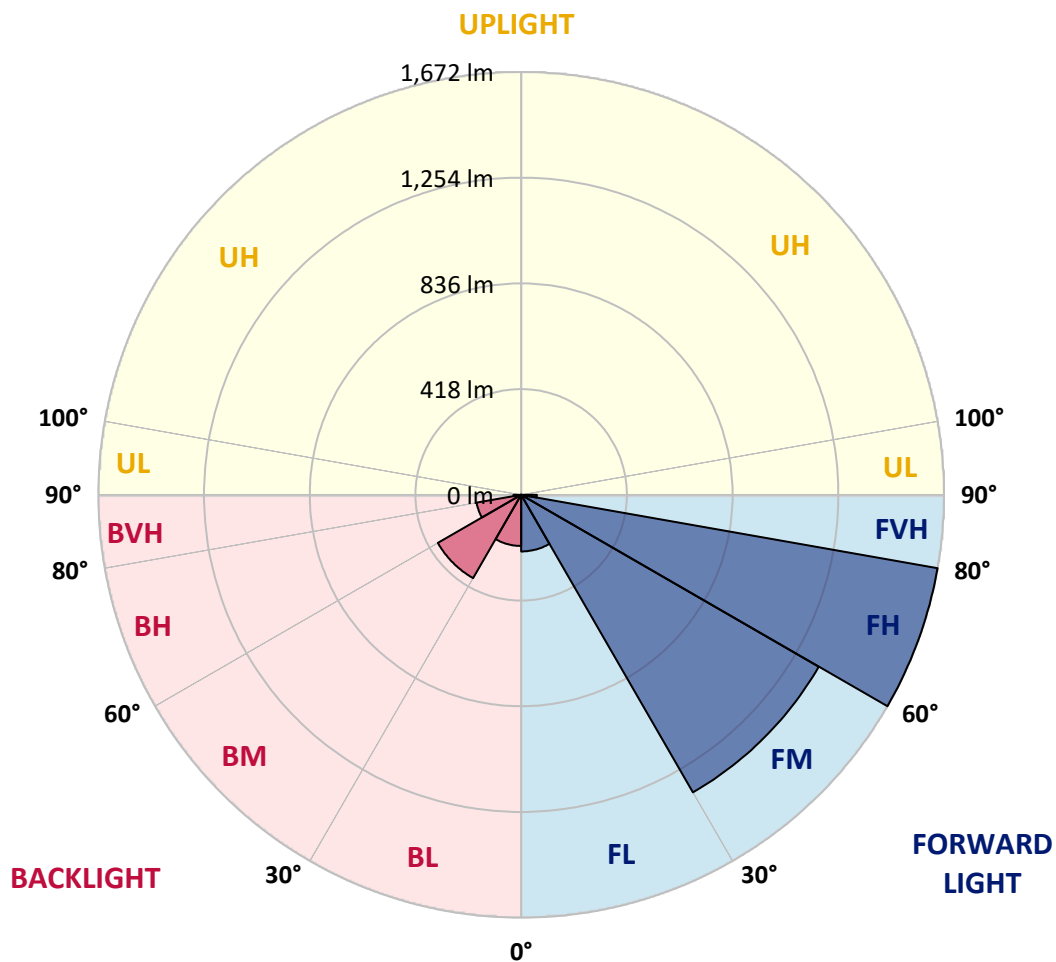
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	223.8	5.4			
FM	(30°-60°)	1358.3	33.1			
FH	(60°-80°)	1671.7	40.7			G1/1800
FVH	(80°-90°)	62.1	1.5			G1/100
BL	(0°-30°)	202.2	4.9	B1/500		
BM	(30°-60°)	380.5	9.3	B1/1000		
BH	(60°-80°)	179.0	4.4	B1/500		G1/500
BVH	(80°-90°)	30.5	0.7			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: P198786

CATALOG NUMBER: XNV-AF-01-LED-U-T4FT-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3
2.5°	598.5	600.1	600.4	602.2	602.2	601.9	602.7	605.8	607.4	611.0	614.2
5°	569.1	570.8	571.6	574.8	578.7	579.0	581.9	587.8	593.5	601.6	608.5
7.5°	535.8	538.0	540.0	546.6	552.3	552.8	558.3	567.9	575.5	585.4	597.7
10°	503.8	504.3	506.4	514.7	522.3	523.0	530.9	541.9	552.1	565.9	579.7
12.5°	477.4	478.9	478.4	484.7	491.2	491.7	502.2	516.1	530.9	546.6	563.0
15°	468.3	468.0	462.5	462.3	465.1	465.6	475.9	492.0	508.7	528.0	549.2
17.5°	474.5	472.4	458.1	449.2	447.3	448.0	455.5	473.2	491.0	513.1	538.5
20°	509.0	500.9	467.2	445.8	439.8	439.8	444.3	458.6	478.2	504.0	535.8
22.5°	590.7	578.2	506.4	468.3	447.1	445.1	441.6	452.7	474.2	505.3	546.6
25°	693.6	687.5	578.2	528.0	484.5	477.6	455.2	459.1	482.3	519.5	575.8
27.5°	788.8	778.4	672.4	615.0	553.3	542.9	495.4	479.5	501.7	545.5	618.1
30°	844.4	837.4	769.3	714.4	641.1	627.8	559.7	519.7	536.1	588.6	678.1
32.5°	904.9	900.8	866.3	816.4	736.1	720.7	642.6	585.2	588.8	645.8	750.4
35°	963.7	969.1	949.6	913.1	838.4	824.0	754.1	670.9	653.9	709.9	827.7
37.5°	1034.2	1035.4	1023.2	999.4	945.9	934.2	876.5	762.2	724.6	778.4	902.3
40°	1174.9	1154.2	1106.2	1087.4	1055.6	1048.2	982.4	846.0	790.3	848.5	972.8
42.5°	1327.0	1295.0	1219.8	1189.0	1176.2	1169.3	1070.7	901.8	852.0	918.8	1042.0
45°	1449.7	1423.6	1350.0	1311.8	1313.5	1302.5	1147.6	951.7	918.8	989.3	1119.2
47.5°	1570.5	1527.0	1444.5	1439.0	1457.3	1441.1	1221.3	1001.6	988.5	1066.0	1196.5
50°	1578.4	1538.7	1505.3	1549.2	1580.5	1560.4	1288.1	1066.7	1060.8	1158.9	1296.2
52.5°	1483.1	1477.3	1528.3	1602.1	1654.1	1636.1	1342.7	1133.8	1134.7	1275.1	1417.6
55°	1448.4	1441.1	1502.2	1593.0	1663.2	1652.5	1383.4	1209.5	1216.6	1416.1	1547.8
57.5°	1506.9	1488.6	1500.6	1575.8	1641.8	1635.5	1425.7	1293.6	1306.4	1578.4	1668.1
60°	1688.3	1650.9	1587.2	1601.3	1642.6	1639.0	1486.2	1387.3	1408.7	1747.5	1744.4
62.5°	1960.0	1917.7	1788.0	1725.3	1716.2	1709.1	1586.2	1502.4	1513.1	1869.6	1700.0
65°	2258.1	2212.6	2058.4	1955.8	1902.1	1886.9	1747.5	1641.3	1574.2	1869.4	1527.3
67.5°	2592.7	2544.7	2390.9	2293.0	2234.8	2209.0	2009.3	1753.5	1554.4	1711.2	1222.1
70°	2935.5	2889.7	2819.3	2853.4	2879.0	2839.6	2421.7	1790.9	1411.9	1341.6	820.6
72.5°	2753.5	2749.8	2803.3	3127.6	3620.6	3628.4	2833.6	1685.4	1090.8	797.4	437.5
73°	2584.6	2600.0	2699.2	3087.1	3684.1	3686.6	2841.8	1630.9	1001.6	687.0	384.2
75°	1339.0	1443.4	1811.4	2503.2	3411.2	3423.5	2505.0	1234.6	597.0	381.6	258.9
77.5°	358.6	353.9	583.6	1219.5	2274.2	2258.1	1582.8	597.7	286.1	239.4	181.7
80°	123.0	124.5	198.7	446.1	1061.5	1099.4	687.0	260.8	188.2	166.7	128.7
82.5°	62.6	64.8	103.9	189.8	444.0	434.5	221.1	153.4	126.0	101.3	72.0
85°	33.5	34.5	57.2	98.4	162.9	164.7	77.7	81.9	80.1	57.4	35.5
87.5°	16.5	17.0	27.4	43.4	60.3	58.2	27.1	35.5	39.4	32.3	19.5
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: P198786

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3
2.5°	618.1	618.1	621.4	627.3	631.4	635.4	637.9	642.1	644.5	644.2	643.9
5°	613.9	616.5	623.3	630.3	635.0	638.2	638.2	640.1	640.1	639.2	638.2
7.5°	604.3	608.7	618.6	624.9	626.1	622.8	616.0	610.8	604.3	600.9	599.6
10°	588.8	594.6	607.1	610.0	603.2	591.2	574.8	560.7	548.1	542.4	540.5
12.5°	573.7	581.2	593.0	588.6	572.4	548.9	523.6	504.3	490.2	484.7	482.9
15°	561.2	570.3	579.5	565.6	537.5	504.8	476.9	458.9	448.2	444.0	442.9
17.5°	552.8	563.5	566.7	540.8	501.7	465.1	440.4	428.6	423.9	422.1	421.6
20°	553.3	565.4	557.8	516.8	467.2	430.5	414.0	410.6	410.6	410.6	410.3
22.5°	567.7	578.2	554.1	494.4	434.0	401.2	394.1	397.0	399.1	399.1	398.8
25°	597.5	603.2	556.8	472.7	403.0	375.8	376.1	381.6	383.4	383.4	382.9
27.5°	642.9	638.2	561.5	448.7	372.5	352.9	356.6	361.5	362.8	362.0	361.8
30°	699.8	681.0	565.4	420.5	343.7	331.5	334.6	337.5	336.4	334.6	334.4
32.5°	763.5	724.6	563.0	388.9	318.4	309.3	311.2	312.7	311.2	306.7	306.7
35°	826.6	764.0	550.2	354.5	298.4	287.9	287.7	292.6	292.4	287.1	287.3
37.5°	882.0	795.0	525.4	322.8	281.1	272.2	273.3	276.4	277.9	271.0	270.2
40°	930.3	816.4	490.5	296.0	267.3	267.8	264.9	259.9	258.2	255.0	254.5
42.5°	975.7	831.4	453.4	273.5	260.2	266.3	256.6	244.8	239.9	242.7	244.6
45°	1020.3	848.0	417.7	255.0	251.3	261.6	248.3	235.2	229.4	230.8	232.5
47.5°	1074.9	871.2	374.6	235.2	237.8	253.0	243.1	228.9	220.3	215.1	213.5
50°	1146.6	904.9	318.8	213.8	223.4	243.6	238.6	219.7	210.4	200.0	197.3
52.5°	1236.4	936.8	262.3	196.5	211.6	235.5	231.3	212.0	200.5	187.9	185.9
55°	1325.9	941.2	213.8	181.7	198.4	224.4	222.4	205.7	189.5	179.3	177.3
57.5°	1388.7	899.2	181.2	169.1	185.6	210.9	214.3	198.1	180.3	172.6	171.2
60°	1389.7	798.7	161.3	160.8	175.9	199.2	205.9	189.2	174.6	169.4	168.4
62.5°	1279.3	643.6	148.5	154.6	168.9	189.5	199.7	184.2	173.3	171.2	170.2
65°	1072.3	475.6	138.3	148.7	162.3	181.4	194.5	182.7	172.8	172.1	171.2
67.5°	791.7	326.0	129.7	141.5	155.1	173.1	189.5	180.3	169.7	172.8	171.8
70°	498.0	217.7	121.6	133.1	145.4	163.4	183.0	176.2	165.7	163.9	160.5
72.5°	281.1	157.4	112.0	122.4	132.9	150.6	174.1	169.1	156.9	149.6	146.2
73°	254.0	149.0	109.7	119.8	130.0	148.0	172.1	167.0	154.3	146.2	143.0
75°	185.9	121.9	98.9	109.1	117.9	136.0	162.1	156.6	142.8	133.1	131.0
77.5°	134.7	94.0	85.1	94.2	102.1	119.3	147.2	141.0	127.4	122.1	120.1
80°	97.1	71.3	70.5	79.4	86.1	103.6	131.2	124.8	111.7	127.2	123.7
82.5°	57.9	45.7	51.7	61.6	68.6	87.0	114.1	106.5	94.0	95.0	80.9
85°	27.6	25.9	32.1	40.5	45.4	59.5	95.0	89.0	75.2	61.6	60.3
87.5°	12.3	11.8	15.4	18.0	24.2	35.8	65.0	57.7	54.5	32.6	25.6
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)