

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: P198946

Luminaire Tested: **XNV-AF-01-LED-U-T4FT-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198946
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-7050-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 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: 4016 lumens
Efficiency: N/A
Efficacy: 118.1 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

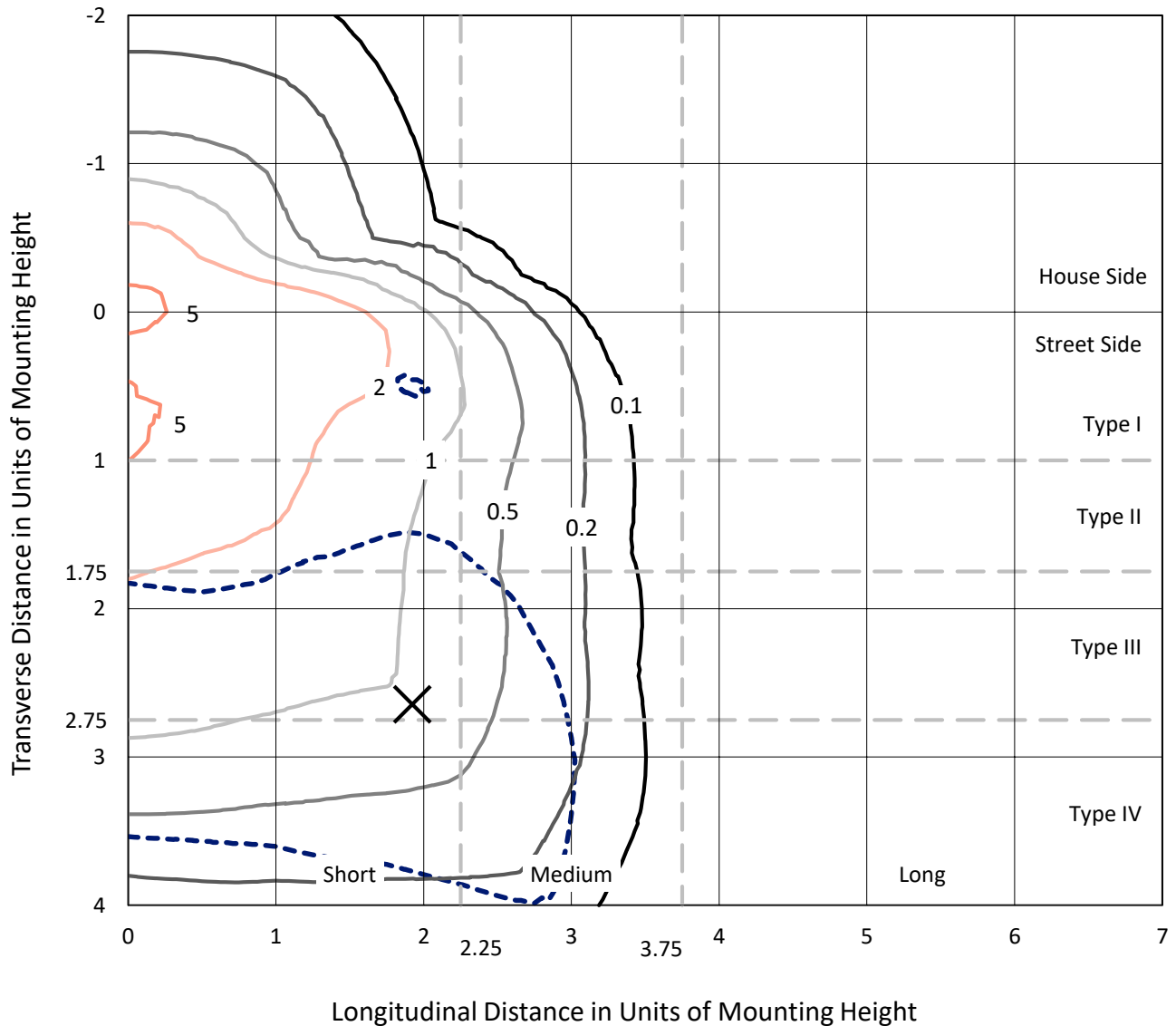


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

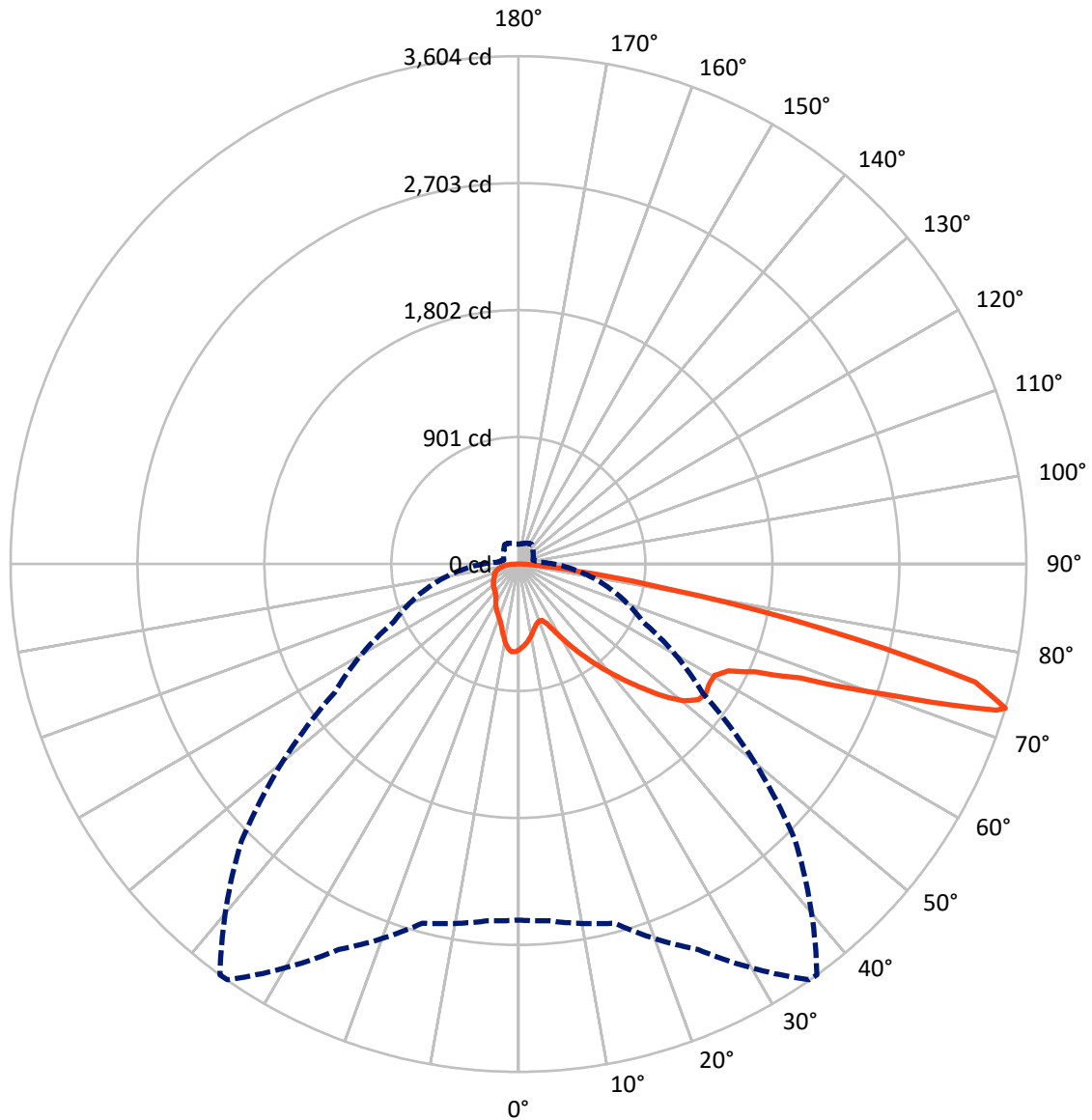


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - Non-Cutoff

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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	774.4	0.0	774.4
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	3241.6	0.0	3241.6
	% Fixture	80.7	0.0	80.7
Total	Lumens	4016.0	0.0	4016.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	1.4
10°-20°	138.8	3.5
20°-30°	222.5	5.5
30°-40°	368.0	9.2
40°-50°	569.4	14.2
50°-60°	762.3	19.0
60°-70°	995.8	24.8
70°-80°	813.4	20.3
80°-90°	90.5	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°	4016.0	100.0
0°-180°	4016.0	100.0



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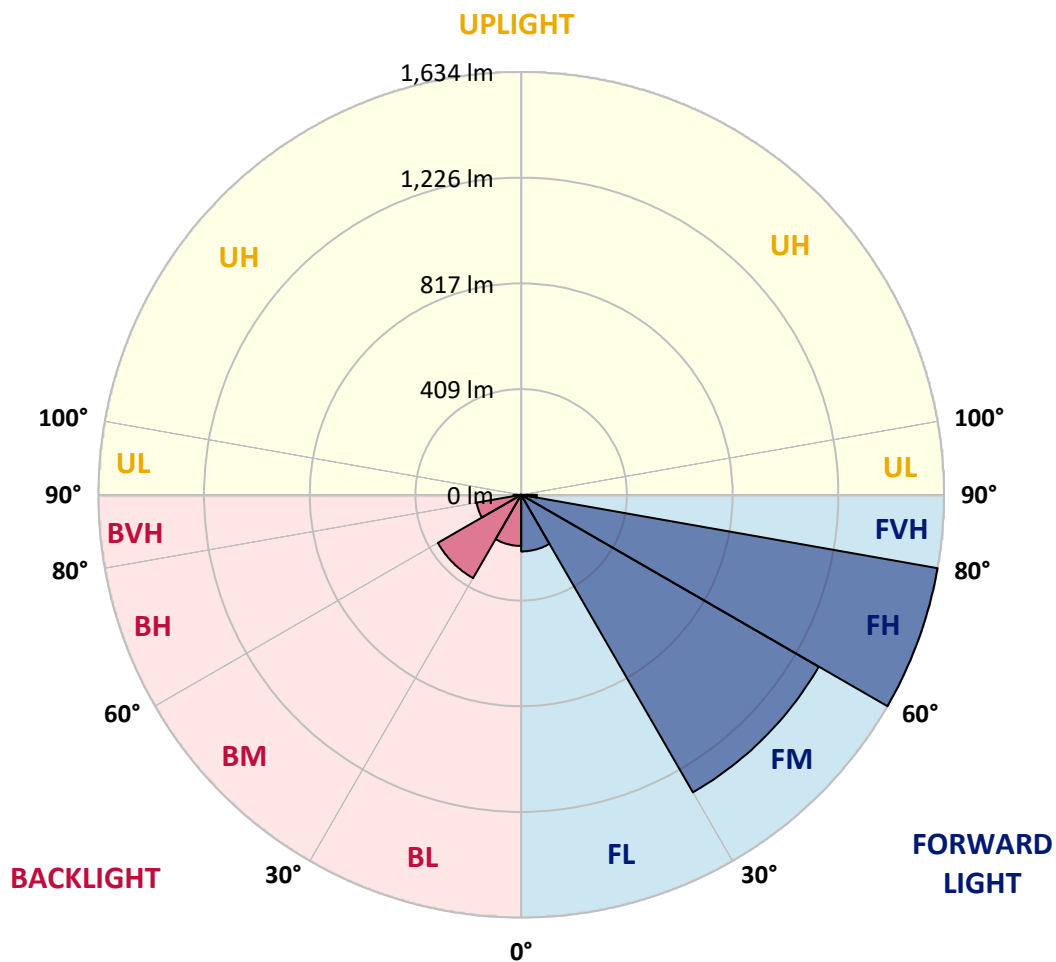
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	218.8	5.4			
FM (30°-60°)	1327.8	33.1			
FH (60°-80°)	1634.2	40.7			G1/1800
FVH (80°-90°)	60.7	1.5			G1/100
BL (0°-30°)	197.7	4.9	B1/500		
BM (30°-60°)	371.9	9.3	B1/1000		
BH (60°-80°)	175.0	4.4	B1/500		G1/500
BVH (80°-90°)	29.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	608.3	608.3	608.3	608.3	608.3	608.3	608.3	608.3	608.3	608.3	608.3
2.5°	585.1	586.6	586.9	588.7	588.7	588.4	589.2	592.2	593.8	597.3	600.4
5°	556.3	558.0	558.8	561.9	565.7	566.0	568.8	574.6	580.2	588.1	594.8
7.5°	523.8	525.9	527.9	534.3	539.9	540.4	545.8	555.2	562.6	572.3	584.3
10°	492.5	493.0	495.0	503.2	510.6	511.3	519.0	529.7	539.7	553.2	566.7
12.5°	466.7	468.2	467.7	473.8	480.2	480.7	490.9	504.5	519.0	534.3	550.4
15°	457.8	457.5	452.1	451.9	454.7	455.2	465.2	481.0	497.3	516.2	536.9
17.5°	463.9	461.8	447.8	439.1	437.3	437.9	445.3	462.6	480.0	501.6	526.4
20°	497.6	489.7	456.7	435.8	429.9	429.9	434.3	448.3	467.5	492.7	523.8
22.5°	577.4	565.2	495.0	457.8	437.1	435.1	431.7	442.5	463.6	494.0	534.3
25°	678.0	672.1	565.2	516.2	473.6	466.9	445.0	448.8	471.5	507.8	562.9
27.5°	771.1	760.9	657.3	601.2	540.9	530.7	484.3	468.7	490.4	533.3	604.2
30°	825.5	818.6	752.0	698.4	626.7	613.7	547.1	508.0	524.1	575.4	662.9
32.5°	884.6	880.6	846.9	798.1	719.6	704.5	628.2	572.1	575.6	631.3	733.6
35°	942.1	947.4	928.3	892.6	819.6	805.5	737.2	655.8	639.2	694.0	809.1
37.5°	1011.0	1012.2	1000.2	977.0	924.7	913.2	856.8	745.1	708.3	760.9	882.1
40°	1148.5	1128.3	1081.4	1063.0	1031.9	1024.7	960.4	827.0	772.6	829.5	951.0
42.5°	1297.2	1265.9	1192.4	1162.3	1149.8	1143.1	1046.7	881.6	832.9	898.2	1018.6
45°	1417.2	1391.7	1319.7	1282.4	1284.0	1273.3	1121.9	930.3	898.2	967.1	1094.1
47.5°	1535.3	1492.7	1412.1	1406.7	1424.6	1408.8	1193.9	979.1	966.3	1042.1	1169.7
50°	1543.0	1504.2	1471.5	1514.4	1545.0	1525.4	1259.2	1042.8	1037.0	1132.9	1267.1
52.5°	1449.8	1444.2	1494.0	1566.2	1617.0	1599.4	1312.6	1108.4	1109.2	1246.5	1385.8
55°	1415.9	1408.8	1468.5	1557.3	1625.9	1615.4	1352.4	1182.4	1189.3	1384.3	1513.1
57.5°	1473.1	1455.2	1466.9	1540.4	1605.0	1598.8	1393.7	1264.6	1277.1	1543.0	1630.7
60°	1650.4	1613.9	1551.6	1565.4	1605.7	1602.2	1452.9	1356.2	1377.1	1708.3	1705.3
62.5°	1916.0	1874.7	1747.9	1686.6	1677.7	1670.8	1550.6	1468.7	1479.2	1827.7	1661.9
65°	2207.4	2163.0	2012.2	1911.9	1859.4	1844.6	1708.3	1604.5	1538.9	1827.5	1493.0
67.5°	2534.5	2487.6	2337.3	2241.6	2184.7	2159.4	1964.2	1714.2	1519.5	1672.8	1194.7
70°	2869.6	2824.9	2756.0	2789.4	2814.4	2775.9	2367.4	1750.7	1380.2	1311.5	802.2
72.5°	2691.7	2688.1	2740.4	3057.4	3539.4	3547.0	2770.0	1647.6	1066.3	779.5	427.7
73°	2526.6	2541.7	2638.6	3017.8	3601.4	3603.9	2778.0	1594.3	979.1	671.6	375.6
75°	1309.0	1411.0	1770.8	2447.0	3334.7	3346.7	2448.8	1206.9	583.6	373.0	253.1
77.5°	350.6	346.0	570.5	1192.1	2223.2	2207.4	1547.3	584.3	279.7	234.0	177.6
80°	120.2	121.7	194.2	436.1	1037.7	1074.7	671.6	254.9	184.0	163.0	125.8
82.5°	61.2	63.3	101.6	185.5	434.0	424.8	216.1	150.0	123.2	99.0	70.4
85°	32.7	33.7	55.9	96.2	159.2	161.0	76.0	80.1	78.3	56.1	34.7
87.5°	16.1	16.6	26.8	42.4	58.9	56.9	26.5	34.7	38.5	31.6	19.1
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°	608.3	608.3	608.3	608.3	608.3	608.3	608.3	608.3	608.3	608.3	608.3
2.5°	604.2	604.2	607.5	613.2	617.2	621.1	623.6	627.7	630.0	629.7	629.5
5°	600.1	602.7	609.3	616.2	620.8	623.9	623.9	625.7	625.7	624.9	623.9
7.5°	590.7	595.0	604.7	610.9	612.1	608.8	602.2	597.1	590.7	587.4	586.1
10°	575.6	581.3	593.5	596.3	589.7	577.9	561.9	548.1	535.8	530.2	528.4
12.5°	560.8	568.2	579.7	575.4	559.6	536.6	511.9	493.0	479.2	473.8	472.1
15°	548.6	557.5	566.5	552.9	525.4	493.5	466.2	448.6	438.1	434.0	433.0
17.5°	540.4	550.9	554.0	528.7	490.4	454.7	430.5	419.0	414.4	412.6	412.1
20°	540.9	552.7	545.3	505.2	456.7	420.8	404.7	401.4	401.4	401.4	401.1
22.5°	555.0	565.2	541.7	483.3	424.3	392.2	385.3	388.1	390.1	390.1	389.9
25°	584.1	589.7	544.3	462.1	394.0	367.4	367.7	373.0	374.8	374.8	374.3
27.5°	628.5	623.9	548.9	438.6	364.1	345.0	348.6	353.4	354.7	353.9	353.7
30°	684.1	665.7	552.7	411.1	336.0	324.1	327.1	329.9	328.9	327.1	326.9
32.5°	746.4	708.3	550.4	380.2	311.3	302.4	304.2	305.7	304.2	299.8	299.8
35°	808.1	746.9	537.9	346.5	291.7	281.4	281.2	286.0	285.8	280.7	280.9
37.5°	862.2	777.2	513.6	315.6	274.8	266.1	267.2	270.2	271.7	264.9	264.1
40°	909.4	798.1	479.5	289.4	261.3	261.8	259.0	254.1	252.4	249.3	248.8
42.5°	953.8	812.7	443.2	267.4	254.4	260.3	250.8	239.3	234.5	237.3	239.1
45°	997.4	829.0	408.3	249.3	245.7	255.7	242.7	229.9	224.3	225.6	227.3
47.5°	1050.8	851.7	366.2	229.9	232.5	247.3	237.6	223.8	215.4	210.3	208.7
50°	1120.9	884.6	311.6	209.0	218.4	238.1	233.2	214.8	205.7	195.5	192.9
52.5°	1208.7	915.8	256.4	192.1	206.9	230.2	226.1	207.2	196.0	183.7	181.7
55°	1296.2	920.1	209.0	177.6	193.9	219.4	217.4	201.1	185.2	175.3	173.3
57.5°	1357.5	879.0	177.1	165.3	181.4	206.2	209.5	193.7	176.3	168.7	167.4
60°	1358.5	780.8	157.7	157.2	172.0	194.7	201.3	185.0	170.7	165.6	164.6
62.5°	1250.6	629.2	145.2	151.1	165.1	185.2	195.2	180.1	169.4	167.4	166.4
65°	1048.2	464.9	135.2	145.4	158.7	177.3	190.1	178.6	168.9	168.2	167.4
67.5°	773.9	318.7	126.8	138.3	151.6	169.2	185.2	176.3	165.9	168.9	167.9
70°	486.8	212.8	118.9	130.1	142.1	159.7	178.9	172.2	162.0	160.2	156.9
72.5°	274.8	153.9	109.5	119.7	129.9	147.2	170.2	165.3	153.4	146.2	142.9
73°	248.3	145.7	107.2	117.1	127.1	144.7	168.2	163.3	150.8	142.9	139.8
75°	181.7	119.2	96.7	106.7	115.3	132.9	158.5	153.1	139.6	130.1	128.1
77.5°	131.7	91.9	83.2	92.1	99.8	116.6	143.9	137.8	124.5	119.4	117.4
80°	94.9	69.7	68.9	77.6	84.2	101.3	128.3	122.0	109.2	124.3	120.9
82.5°	56.6	44.7	50.5	60.2	67.1	85.0	111.5	104.1	91.9	92.9	79.1
85°	27.0	25.3	31.4	39.6	44.4	58.2	92.9	87.0	73.5	60.2	58.9
87.5°	12.0	11.5	15.1	17.6	23.7	35.0	63.5	56.4	53.3	31.9	25.0
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)