

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: P198956

Luminaire Tested: **XNV-AF-01-LED-U-T4W-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198956
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-7050-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4829 lumens
Efficiency: N/A
Efficacy: 109.7 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 - G2

Input Watts (W): 44
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

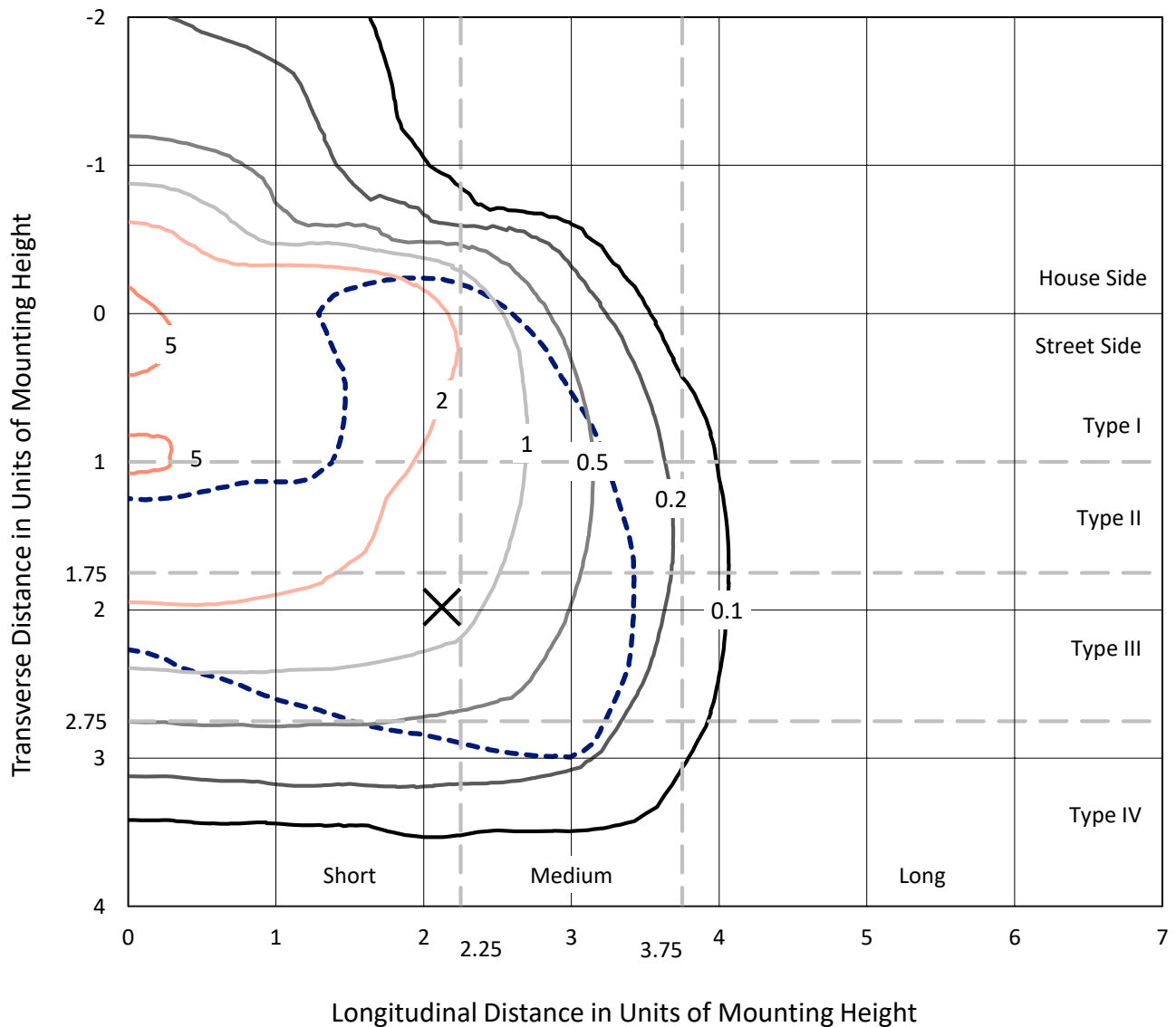


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Iso-Footcandle Lines of Horizontal Illumination

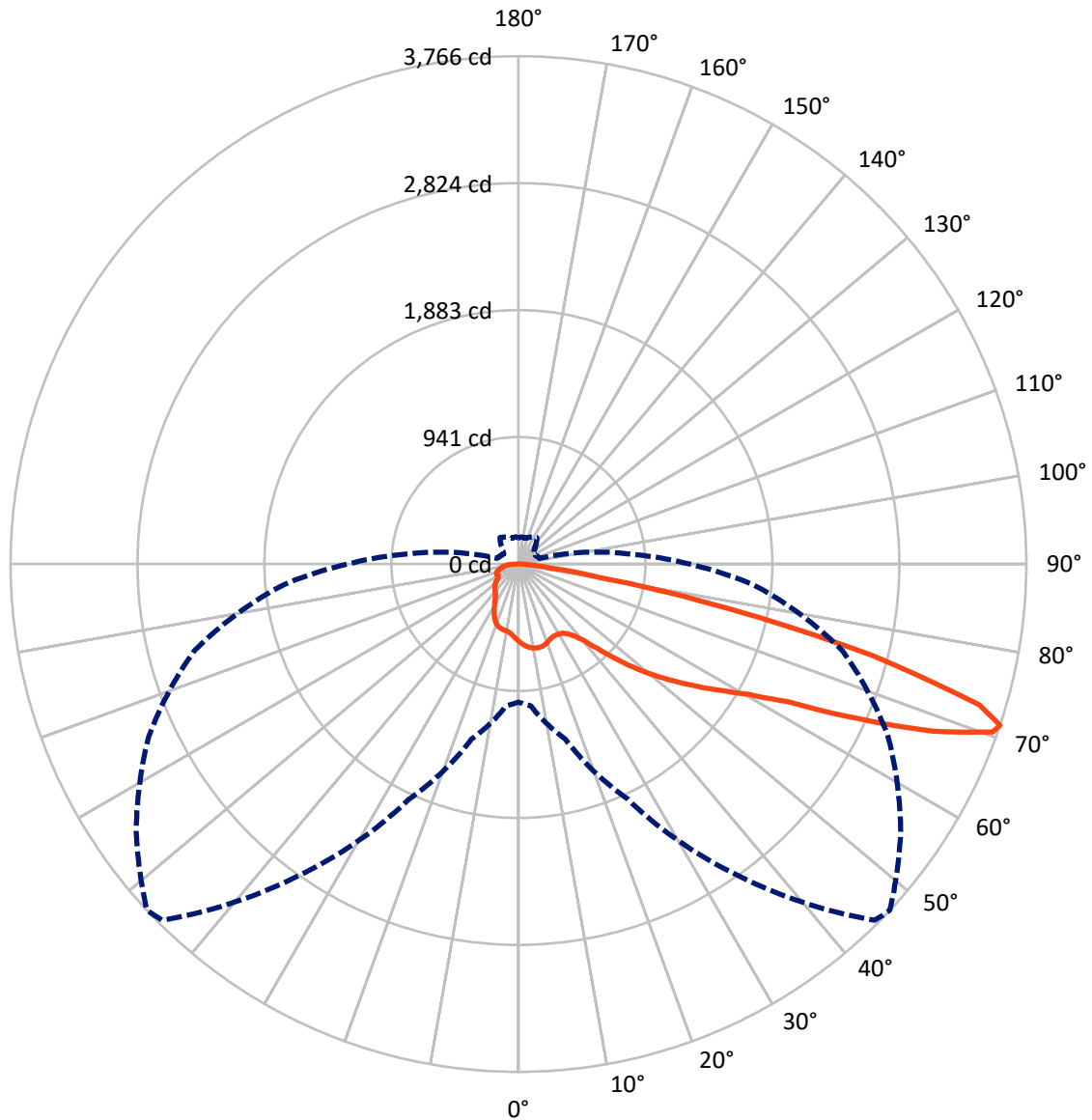
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1034.9	0.0	1034.9
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	3794.1	0.0	3794.1
	% Fixture	78.6	0.0	78.6
Total	Lumens	4829.0	0.0	4829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	1.1
10°-20°	160.4	3.3
20°-30°	238.4	4.9
30°-40°	342.2	7.1
40°-50°	606.8	12.6
50°-60°	1038.3	21.5
60°-70°	1474.1	30.5
70°-80°	807.3	16.7
80°-90°	106.6	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°	4829.0	100.0
0°-180°	4829.0	100.0

Coefficient of Utilization



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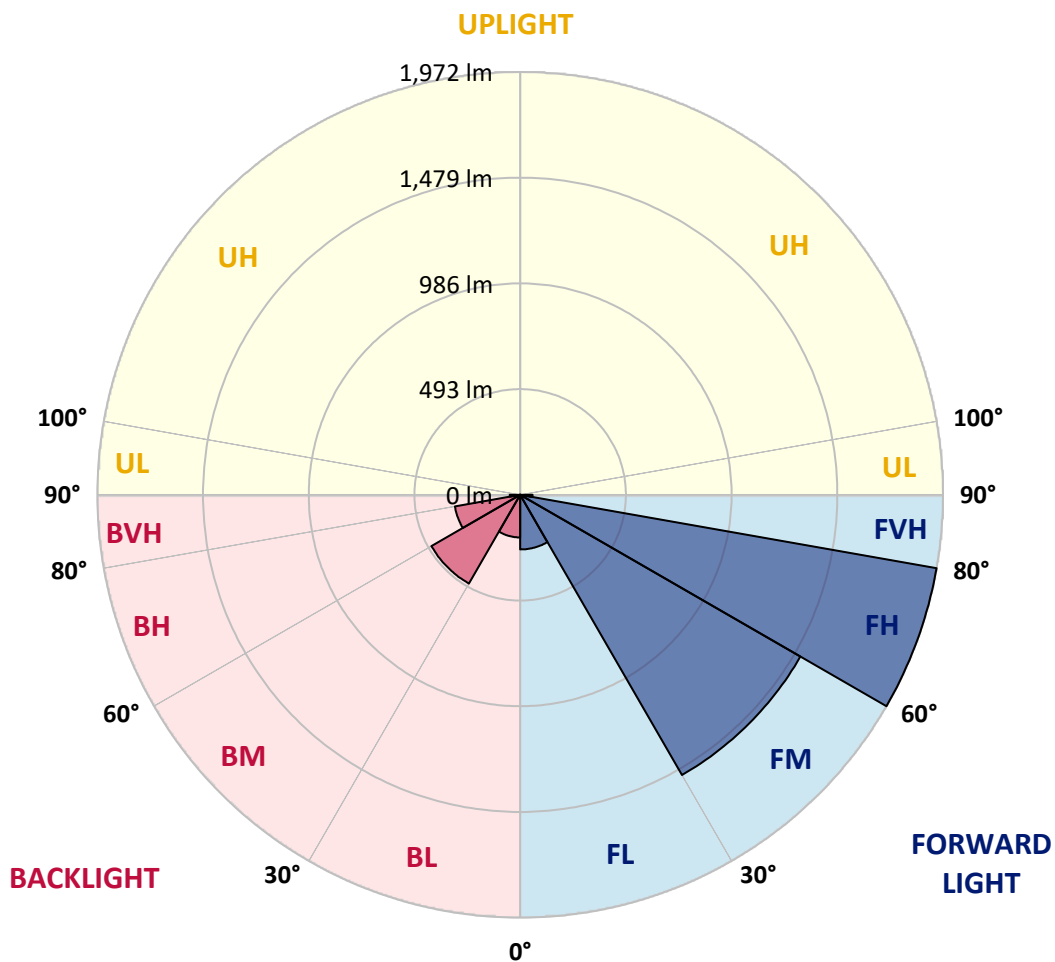
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	254.9	5.3			
FM	(30°-60°)	1509.2	31.3			
FH	(60°-80°)	1972.2	40.8			G2/5000
FVH	(80°-90°)	57.8	1.2			G1/100
BL	(0°-30°)	198.7	4.1	B1/500		
BM	(30°-60°)	478.2	9.9	B1/1000		
BH	(60°-80°)	309.2	6.4	B1/500		G1/500
BVH	(80°-90°)	48.8	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	574.2	574.2	574.2	574.2	574.2	574.2	574.2	574.2	574.2	574.2	574.2
2.5°	609.3	608.0	608.7	606.5	601.2	595.5	595.5	589.6	583.3	577.1	570.2
5°	647.2	645.3	643.7	636.8	626.5	614.9	613.1	601.2	588.3	575.5	563.0
7.5°	678.8	676.9	672.2	659.7	644.7	627.4	625.3	609.6	592.7	574.9	557.4
10°	701.3	700.1	691.0	675.0	657.5	637.2	633.4	617.4	597.4	575.2	553.0
12.5°	713.8	711.9	701.0	682.2	661.6	640.9	637.2	621.8	599.0	574.6	548.6
15°	708.8	707.9	697.5	678.5	657.8	640.0	636.8	621.2	598.0	572.4	544.5
17.5°	687.5	689.7	681.6	662.8	645.9	633.4	630.0	615.2	593.3	567.1	538.3
20°	658.1	660.6	656.6	637.5	627.8	619.6	617.7	605.9	585.5	559.2	530.8
22.5°	626.8	629.0	629.3	611.5	608.4	605.2	603.7	595.2	578.6	554.5	525.7
25°	605.2	607.7	608.4	592.7	594.6	595.5	595.2	589.3	577.4	554.5	526.4
27.5°	599.6	600.8	600.2	585.8	589.3	594.6	594.9	593.7	582.4	560.8	535.1
30°	619.0	619.6	611.8	590.2	593.7	600.5	600.8	600.2	593.0	577.1	554.8
32.5°	702.9	702.2	675.3	619.6	607.7	610.2	611.2	616.8	617.4	604.0	583.3
35°	830.5	830.2	798.9	703.8	647.8	634.6	635.9	644.7	652.5	643.4	631.5
37.5°	971.1	972.0	952.9	824.0	734.2	679.4	678.1	684.7	698.8	701.9	703.5
40°	1126.9	1131.6	1130.7	962.0	855.3	755.8	743.2	735.7	763.0	780.2	802.4
42.5°	1305.0	1303.7	1304.3	1113.4	993.6	875.9	852.8	817.7	849.3	879.1	927.9
45°	1458.0	1463.0	1466.8	1274.6	1148.5	1013.3	989.8	926.0	954.5	998.9	1073.4
47.5°	1612.0	1603.2	1610.1	1453.9	1320.9	1170.1	1139.7	1053.7	1080.3	1142.9	1256.2
50°	1791.3	1787.2	1755.9	1688.0	1529.3	1329.1	1289.3	1187.0	1225.8	1309.4	1481.8
52.5°	1952.1	1930.2	1905.8	1872.0	1734.3	1489.9	1439.5	1325.6	1397.0	1500.6	1761.9
55°	2011.0	1996.3	2025.7	2069.5	1951.2	1653.9	1597.6	1487.4	1590.1	1719.3	2091.4
57.5°	2073.6	2078.6	2144.9	2233.5	2156.5	1828.8	1767.8	1678.9	1801.9	1964.0	2459.7
60°	2104.8	2124.9	2257.3	2423.4	2351.8	2020.7	1962.1	1898.9	2036.9	2234.4	2827.1
62.5°	2110.2	2137.1	2324.5	2490.1	2620.6	2314.5	2246.9	2178.4	2330.5	2533.3	3093.1
65°	2012.5	2053.8	2318.6	2572.1	2865.6	2805.5	2762.7	2643.1	2723.5	2796.5	3138.5
67.5°	1725.6	1770.6	2089.2	2538.3	3062.1	3315.0	3306.9	3130.4	3027.1	2898.2	2802.1
70°	1266.5	1302.8	1608.8	2169.9	2976.4	3714.9	3729.3	3446.1	3111.9	2682.2	2083.6
71°	1024.3	1055.6	1344.1	1926.5	2809.3	3735.6	3765.6	3460.2	3023.6	2487.3	1744.3
72.5°	637.5	655.0	892.5	1453.9	2419.0	3522.8	3573.5	3279.9	2745.8	2102.3	1233.0
75°	240.7	247.5	331.1	641.2	1443.9	2646.6	2707.9	2478.8	1929.0	1200.1	516.0
77.5°	129.2	132.7	164.3	266.6	578.6	1517.1	1596.0	1413.9	925.4	420.0	210.9
80°	86.7	88.9	113.6	158.0	266.0	577.7	643.4	567.7	346.4	239.7	150.2
82.5°	56.0	57.3	77.3	103.9	171.8	203.1	231.9	242.2	216.2	171.8	90.8
85°	36.9	37.9	51.0	66.3	106.4	100.1	102.6	134.3	147.4	113.3	46.3
87.5°	21.3	21.9	30.7	34.1	47.9	37.6	40.7	63.8	87.6	73.9	26.6
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°	574.2	574.2	574.2	574.2	574.2	574.2	574.2	574.2	574.2	574.2	574.2
2.5°	567.1	564.5	558.9	555.5	553.9	553.3	552.7	553.9	553.9	553.3	552.0
5°	556.7	552.0	542.6	536.1	532.6	531.7	532.9	534.5	535.4	535.4	534.5
7.5°	549.2	542.3	529.8	520.7	515.4	513.9	517.3	522.9	526.7	528.6	528.9
10°	543.0	533.6	519.8	510.4	506.0	505.4	509.8	517.0	524.8	528.2	528.9
12.5°	537.3	526.7	511.7	502.9	499.8	501.3	507.3	513.9	522.9	527.9	528.2
15°	532.0	521.0	505.1	496.0	495.4	497.9	503.5	508.8	515.7	522.0	522.0
17.5°	525.7	513.9	497.3	488.8	488.8	491.0	494.8	497.6	502.0	507.9	507.6
20°	518.2	506.0	489.1	480.4	478.5	477.2	477.2	477.9	481.6	486.9	487.9
22.5°	512.6	500.1	482.2	471.6	463.2	455.0	451.6	450.3	453.8	458.8	460.0
25°	512.6	500.1	480.1	462.2	441.6	425.9	419.3	417.5	420.9	425.6	427.5
27.5°	521.0	508.5	485.1	453.8	415.9	390.9	383.0	381.5	384.6	388.4	390.2
30°	540.8	528.6	499.5	444.1	387.4	354.6	345.8	344.2	345.8	347.4	349.6
32.5°	573.6	563.3	522.9	435.3	358.6	321.7	311.1	308.6	309.2	309.5	311.4
35°	627.1	622.4	554.2	425.0	331.4	294.8	283.8	278.8	278.5	280.1	282.3
37.5°	709.1	711.9	594.6	410.0	308.9	275.7	264.7	259.7	257.2	260.4	262.9
40°	824.9	831.5	641.2	389.6	290.4	264.4	252.9	248.2	244.7	243.8	245.0
42.5°	975.4	973.6	688.8	363.6	270.4	256.9	244.7	239.7	234.1	226.9	225.3
45°	1153.8	1126.9	728.5	331.7	247.5	249.7	237.2	230.3	221.6	210.9	209.7
47.5°	1364.4	1290.3	752.9	297.6	226.3	240.3	228.8	218.1	205.3	198.4	197.5
50°	1618.2	1481.5	770.2	262.9	207.2	228.4	216.9	202.8	190.3	188.4	188.1
52.5°	1918.6	1707.1	791.4	231.6	192.1	213.1	205.0	190.6	180.6	181.5	181.5
55°	2238.2	1940.6	792.1	206.9	179.0	195.3	196.2	184.6	176.8	179.9	180.9
57.5°	2529.5	2144.6	729.8	189.3	166.5	181.2	193.4	186.8	180.9	191.8	192.8
60°	2783.6	2301.7	595.8	174.9	156.2	175.9	199.7	200.3	199.0	228.8	231.0
62.5°	2876.6	2303.3	423.1	162.7	150.5	179.0	212.8	213.7	213.7	241.3	245.3
65°	2746.4	2111.4	281.6	155.5	146.8	185.9	223.4	219.4	209.7	228.8	224.4
67.5°	2287.6	1643.6	205.9	150.8	141.4	186.2	232.8	222.5	205.9	222.2	214.7
70°	1572.2	1045.9	172.4	146.5	135.2	178.1	237.8	221.6	200.3	207.2	197.2
71°	1265.5	834.6	163.7	144.9	132.7	173.4	238.5	220.3	197.5	201.8	192.8
72.5°	833.7	514.2	153.0	141.4	128.9	165.2	236.9	217.5	193.7	194.0	188.1
75°	328.9	213.1	137.7	133.6	118.3	152.1	230.0	211.5	186.5	180.3	177.8
77.5°	166.2	139.3	121.1	122.7	105.8	138.6	220.3	201.8	176.5	168.0	166.2
80°	121.4	105.8	103.6	106.4	91.7	125.5	208.1	188.7	163.7	172.4	168.7
82.5°	73.9	64.5	81.1	87.9	76.7	112.0	193.7	173.4	147.4	135.8	131.4
85°	35.0	37.9	58.5	64.8	56.6	89.5	177.1	156.5	128.6	111.1	113.0
87.5°	17.2	21.0	33.5	38.8	37.2	65.7	133.6	121.4	101.4	83.6	81.7
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)