

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: P198938

Luminaire Tested: **XNV-AF-01-LED-U-T3R-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198938
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-7050-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4053 lumens
Efficiency: N/A
Efficacy: 119.2 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 - G1

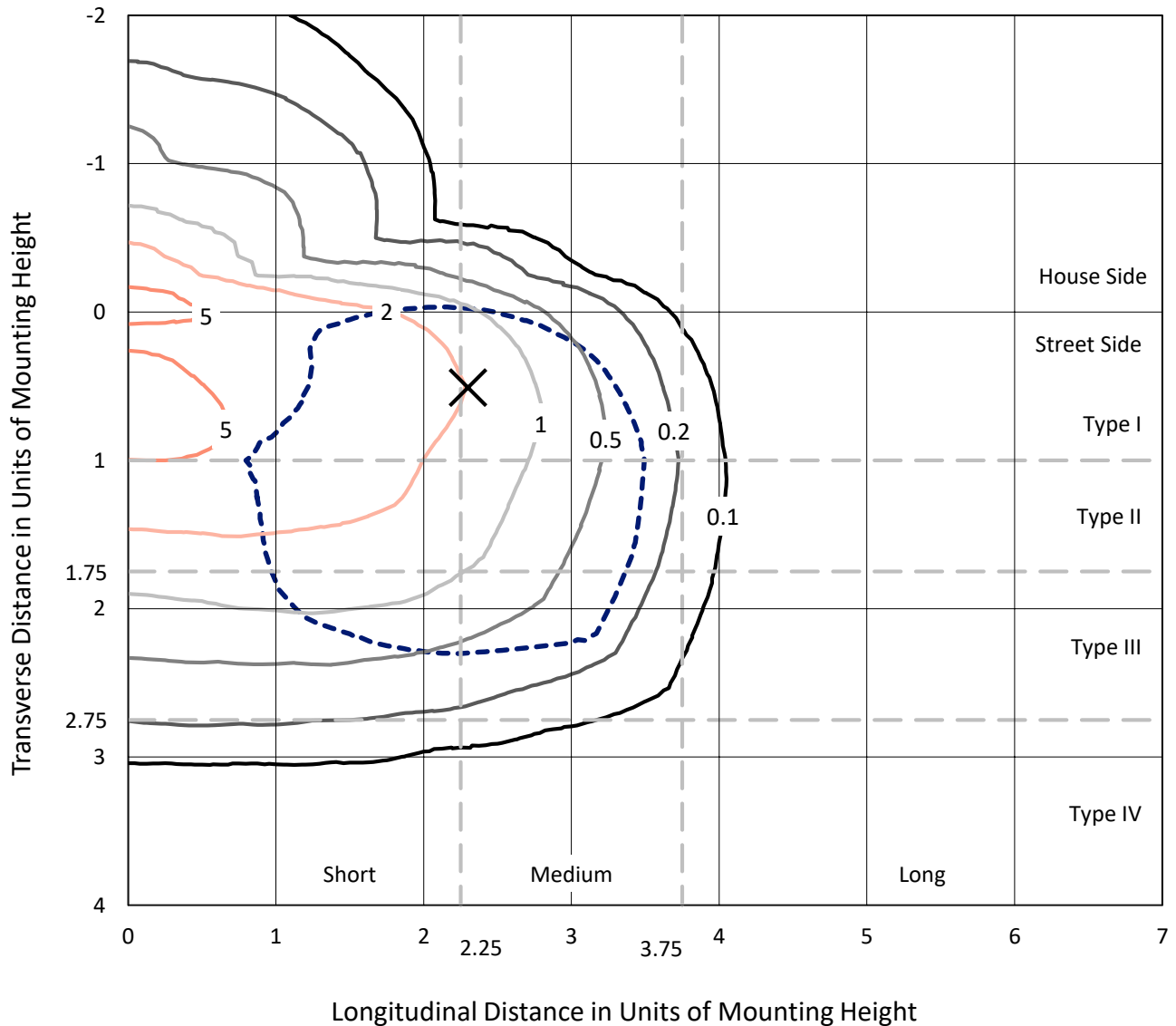
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

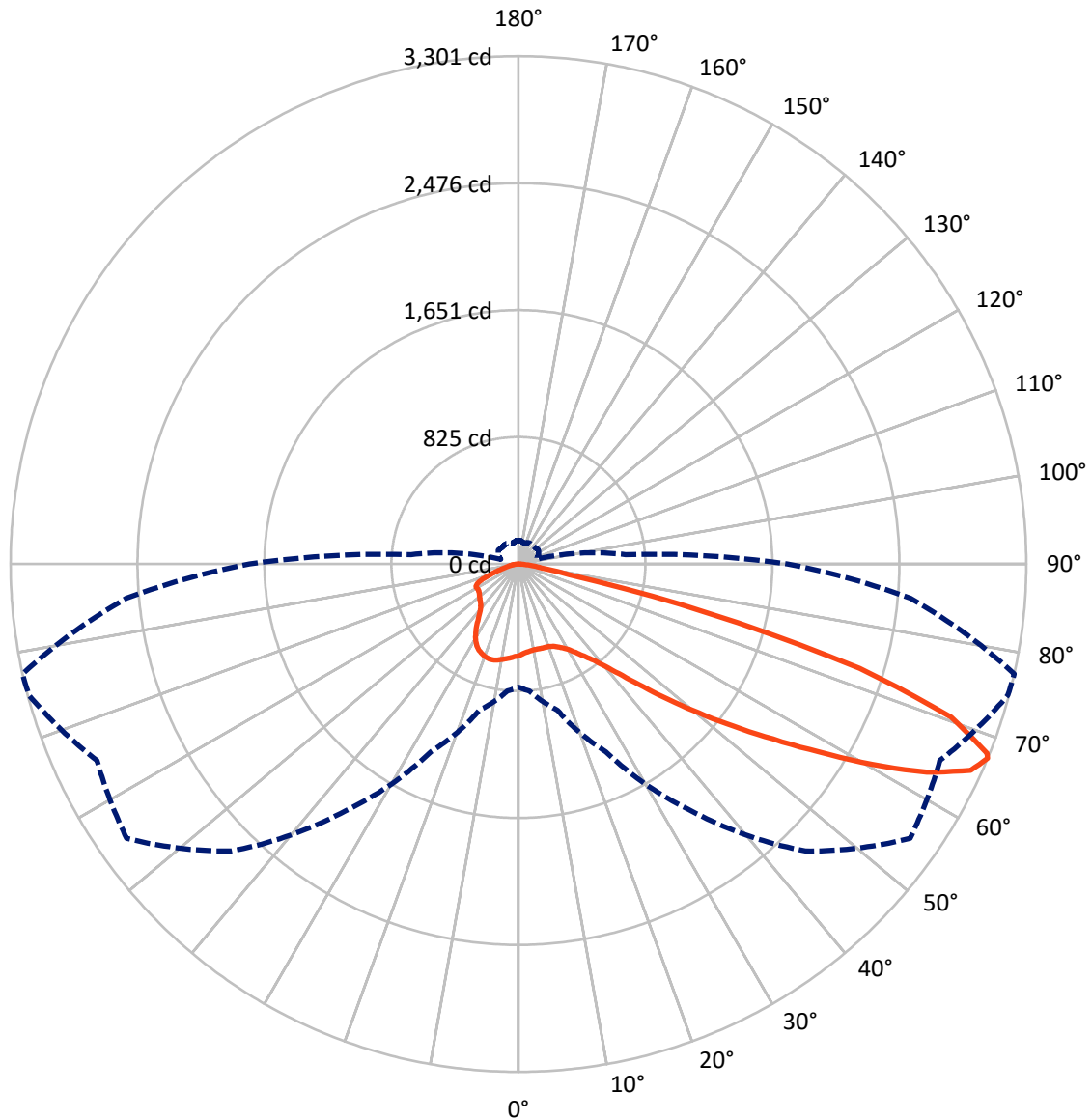
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 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
House Side	Lumens	696.5	0.0	696.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	3356.5	0.0	3356.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	4053.0	0.0	4053.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	1.3
10°-20°	147.1	3.6
20°-30°	250.0	6.2
30°-40°	399.9	9.9
40°-50°	615.7	15.2
50°-60°	854.2	21.1
60°-70°	1139.4	28.1
70°-80°	542.2	13.4
80°-90°	51.3	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°	4053.0	100.0
0°-180°	4053.0	100.0



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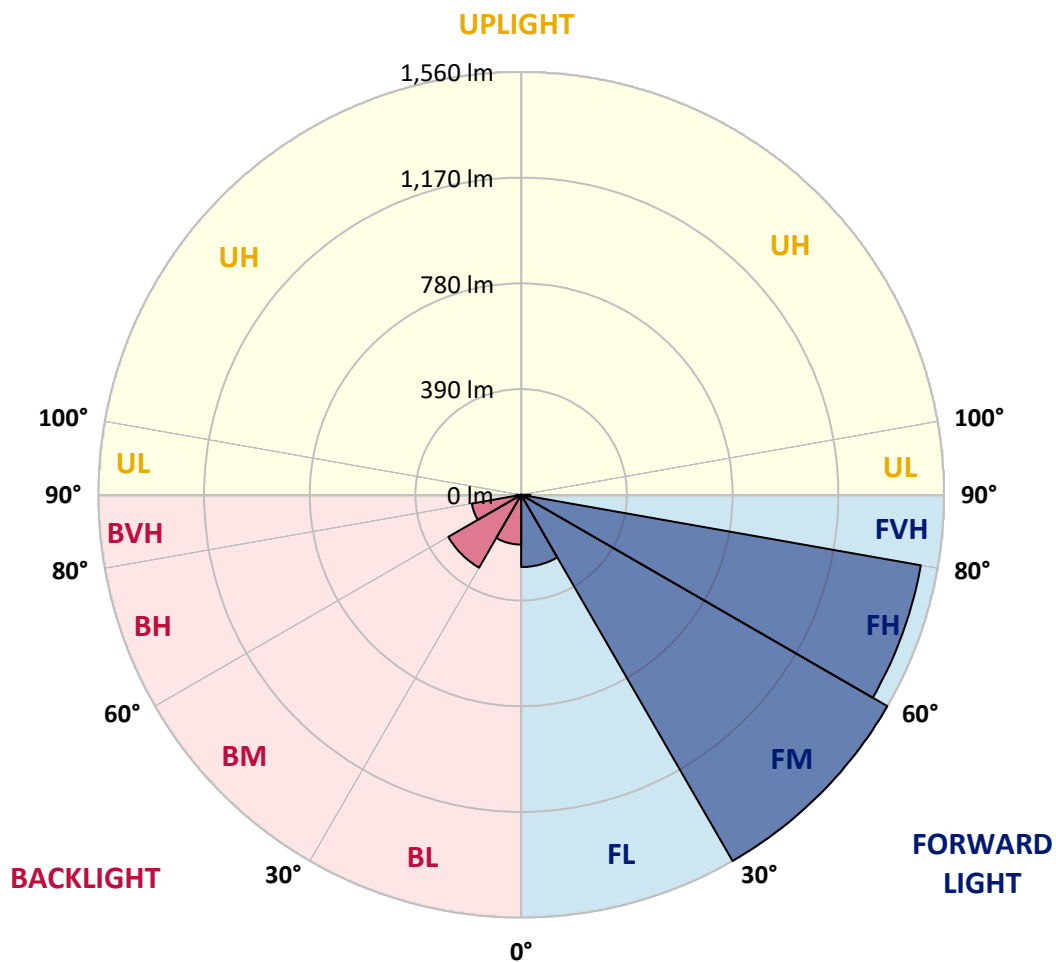
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	266.5	6.6			
FM	(30°-60°)	1559.6	38.5			
FH	(60°-80°)	1497.0	36.9			G1/1800
FVH	(80°-90°)	33.3	0.8			G1/100
BL	(0°-30°)	183.7	4.5	B1/500		
BM	(30°-60°)	310.1	7.7	B1/1000		
BH	(60°-80°)	184.7	4.6	B1/500		G1/500
BVH	(80°-90°)	18.0	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-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5
2.5°	534.9	537.4	537.6	544.9	548.1	556.4	565.4	573.4	580.5	583.0	587.5
5°	481.3	481.3	482.0	486.8	496.0	509.3	528.1	548.6	570.2	575.5	588.7
7.5°	453.2	453.7	454.2	459.0	466.2	478.0	496.8	524.8	560.7	569.4	592.7
10°	455.7	454.9	452.4	451.4	454.4	462.0	478.2	507.1	552.7	566.2	600.0
12.5°	495.0	493.5	485.3	473.2	462.2	459.5	470.7	498.0	548.9	566.2	612.3
15°	562.4	563.4	547.1	522.1	493.3	473.7	472.2	494.8	547.6	567.7	626.6
17.5°	650.1	650.6	628.1	591.7	543.9	503.6	482.5	494.8	547.6	569.2	640.3
20°	743.3	739.8	714.2	668.6	606.5	544.9	501.3	497.8	549.1	571.4	653.4
22.5°	823.2	820.0	793.2	745.3	674.2	593.7	526.6	507.8	557.4	580.7	671.7
25°	893.1	895.1	869.1	815.2	741.5	648.9	564.4	530.9	574.7	597.5	694.2
27.5°	978.0	974.3	944.2	892.9	810.9	706.0	611.8	559.9	595.2	617.8	721.8
30°	1076.2	1074.5	1033.9	981.0	887.4	769.9	658.6	591.2	622.0	645.6	756.3
32.5°	1195.5	1195.2	1151.7	1086.8	973.3	842.0	714.0	634.1	661.1	684.9	802.2
35°	1330.5	1330.3	1285.2	1199.5	1072.2	921.9	779.1	686.2	709.5	734.5	856.8
37.5°	1424.2	1422.7	1399.2	1316.0	1181.7	1014.9	860.5	756.3	764.3	792.4	922.7
40°	1442.3	1451.3	1471.6	1422.5	1301.2	1118.1	942.2	831.7	839.3	875.3	1005.6
42.5°	1422.7	1434.5	1501.9	1515.7	1420.7	1243.1	1044.4	936.2	945.7	990.6	1103.1
45°	1405.7	1416.0	1500.4	1567.3	1538.7	1379.4	1171.9	1063.7	1081.8	1137.4	1214.3
47.5°	1376.6	1386.1	1470.8	1576.5	1606.1	1510.7	1325.5	1217.0	1248.1	1315.5	1341.0
50°	1375.1	1379.4	1430.5	1545.5	1629.4	1610.4	1495.6	1396.4	1444.0	1521.7	1481.3
52.5°	1337.0	1366.9	1413.2	1495.9	1629.9	1668.5	1663.2	1593.1	1666.5	1752.4	1635.2
55°	1104.1	1138.4	1355.6	1471.6	1626.9	1718.3	1816.3	1802.3	1917.0	2007.4	1807.5
57.5°	1030.9	1045.4	1189.2	1478.8	1651.9	1800.8	1969.4	2027.0	2203.6	2302.3	2014.2
60°	1010.9	1026.1	1155.9	1482.3	1719.8	1950.8	2177.0	2280.8	2540.6	2645.3	2248.9
62.5°	988.6	1008.4	1158.4	1485.6	1839.1	2172.8	2452.6	2556.1	2886.5	2980.0	2468.9
65°	923.4	949.7	1112.1	1465.1	1969.6	2451.4	2816.9	2843.2	3172.4	3231.7	2601.7
67°	799.9	828.7	984.8	1346.3	1957.6	2639.0	3108.2	3022.8	3293.9	3301.1	2558.6
67.5°	760.8	790.7	941.7	1297.0	1923.3	2663.6	3159.8	3047.6	3292.9	3284.9	2518.5
70°	512.3	545.9	666.9	952.2	1542.7	2478.9	3147.3	2971.2	3076.9	2985.0	2163.8
72.5°	254.3	255.3	332.7	521.6	934.7	1778.0	2625.5	2541.8	2494.2	2320.6	1587.8
75°	122.5	124.8	157.1	230.5	394.1	917.9	1790.5	1715.1	1460.3	1264.4	794.7
77.5°	93.4	95.7	122.0	150.1	164.3	299.4	886.9	716.7	423.1	338.0	224.0
80°	72.2	76.4	103.0	115.2	108.7	120.0	278.8	219.5	164.6	151.1	111.0
82.5°	56.4	58.9	87.4	87.4	75.2	80.4	129.8	126.8	102.2	92.2	59.6
85°	39.8	44.8	70.4	65.1	49.4	49.9	77.7	74.4	52.6	42.3	23.3
87.5°	17.8	22.8	50.1	42.6	26.3	20.3	31.8	27.3	20.8	16.0	10.8
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°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5
2.5°	592.5	596.5	602.8	606.5	611.5	613.5	615.5	619.0	621.8	621.0	619.8
5°	598.0	604.8	612.5	615.0	615.0	612.5	611.0	611.3	610.5	610.0	608.5
7.5°	606.0	615.3	620.8	618.3	610.5	600.8	591.5	586.0	580.7	577.5	578.5
10°	617.3	627.6	627.8	616.8	598.2	577.0	558.7	546.9	535.6	530.6	532.1
12.5°	633.6	643.8	635.1	611.3	578.7	545.4	511.8	487.5	465.7	460.5	459.0
15°	651.1	659.1	639.6	599.5	550.6	495.8	439.4	403.1	378.8	374.5	373.0
17.5°	666.4	670.9	637.3	578.5	506.3	419.9	354.2	329.7	324.7	327.2	327.2
20°	679.9	678.4	627.6	545.9	436.4	335.7	297.6	297.4	304.1	310.4	310.9
22.5°	697.0	685.2	612.0	497.5	353.0	280.1	273.6	280.1	287.6	294.6	295.4
25°	717.2	692.7	591.2	428.6	283.8	254.3	257.0	262.5	267.3	272.8	273.1
27.5°	737.5	698.5	561.9	347.7	246.3	237.7	240.8	243.0	244.3	247.8	247.8
30°	761.1	703.0	519.6	278.6	229.0	223.2	221.5	220.5	221.5	226.2	226.5
32.5°	790.7	711.0	461.7	239.0	221.0	212.9	203.9	198.9	202.4	210.9	212.4
35°	824.2	720.5	392.3	223.2	218.2	207.9	191.4	183.6	184.9	192.7	193.9
37.5°	866.3	732.8	323.9	219.5	221.0	207.4	185.6	174.6	169.1	169.4	169.1
40°	920.2	745.1	269.8	220.5	227.0	208.7	182.9	165.6	154.1	154.6	155.6
42.5°	976.5	753.1	235.5	223.5	234.2	210.4	181.9	156.8	146.8	155.3	163.1
45°	1042.4	750.8	217.7	226.2	239.8	211.2	178.1	155.8	147.6	173.1	187.6
47.5°	1118.1	741.0	207.7	227.5	241.3	210.9	175.4	159.1	153.8	198.2	214.7
50°	1200.3	725.8	199.7	225.5	240.5	209.9	178.4	163.1	156.3	203.7	216.5
52.5°	1290.2	711.7	191.4	221.0	236.7	206.9	182.1	161.3	149.3	187.6	197.4
55°	1396.7	708.5	182.1	213.2	230.5	203.7	180.1	155.8	141.5	166.3	172.4
57.5°	1518.4	728.8	170.1	203.7	222.0	197.2	175.4	152.8	138.8	151.3	154.6
60°	1673.0	773.6	157.3	193.7	211.4	187.4	171.1	153.6	139.5	149.1	149.8
62.5°	1793.7	813.9	145.8	181.4	197.4	175.6	166.6	154.3	141.8	152.1	150.8
65°	1837.6	794.2	131.5	163.1	177.6	162.6	160.3	154.8	141.8	153.8	151.1
67°	1747.6	699.7	118.0	144.8	158.8	151.1	154.3	152.8	139.3	153.6	148.8
67.5°	1704.8	666.4	114.5	141.8	153.8	147.6	152.8	151.8	138.5	153.1	147.6
70°	1405.9	478.0	96.7	119.0	128.8	130.0	143.5	145.3	132.5	143.8	133.8
72.5°	1000.3	299.1	83.4	92.2	104.0	111.2	131.0	136.5	124.5	125.0	116.7
75°	495.0	160.6	74.4	71.1	80.9	92.7	114.2	124.5	112.7	104.2	101.5
77.5°	167.1	90.9	62.9	57.4	62.9	74.4	94.7	108.7	99.5	88.2	86.4
80°	86.4	66.1	49.1	46.1	49.6	57.6	74.2	90.4	84.9	85.4	70.4
82.5°	53.9	40.3	35.3	35.1	37.6	44.1	54.6	73.4	72.9	62.4	45.3
85°	25.1	23.3	22.5	23.3	24.1	25.1	35.6	52.4	55.4	33.6	29.8
87.5°	10.5	10.3	9.0	9.8	10.8	10.5	14.3	22.3	31.1	21.0	19.3
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)