

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: P198778

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198778
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-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 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: 4146 lumens
Efficiency: N/A
Efficacy: 121.9 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

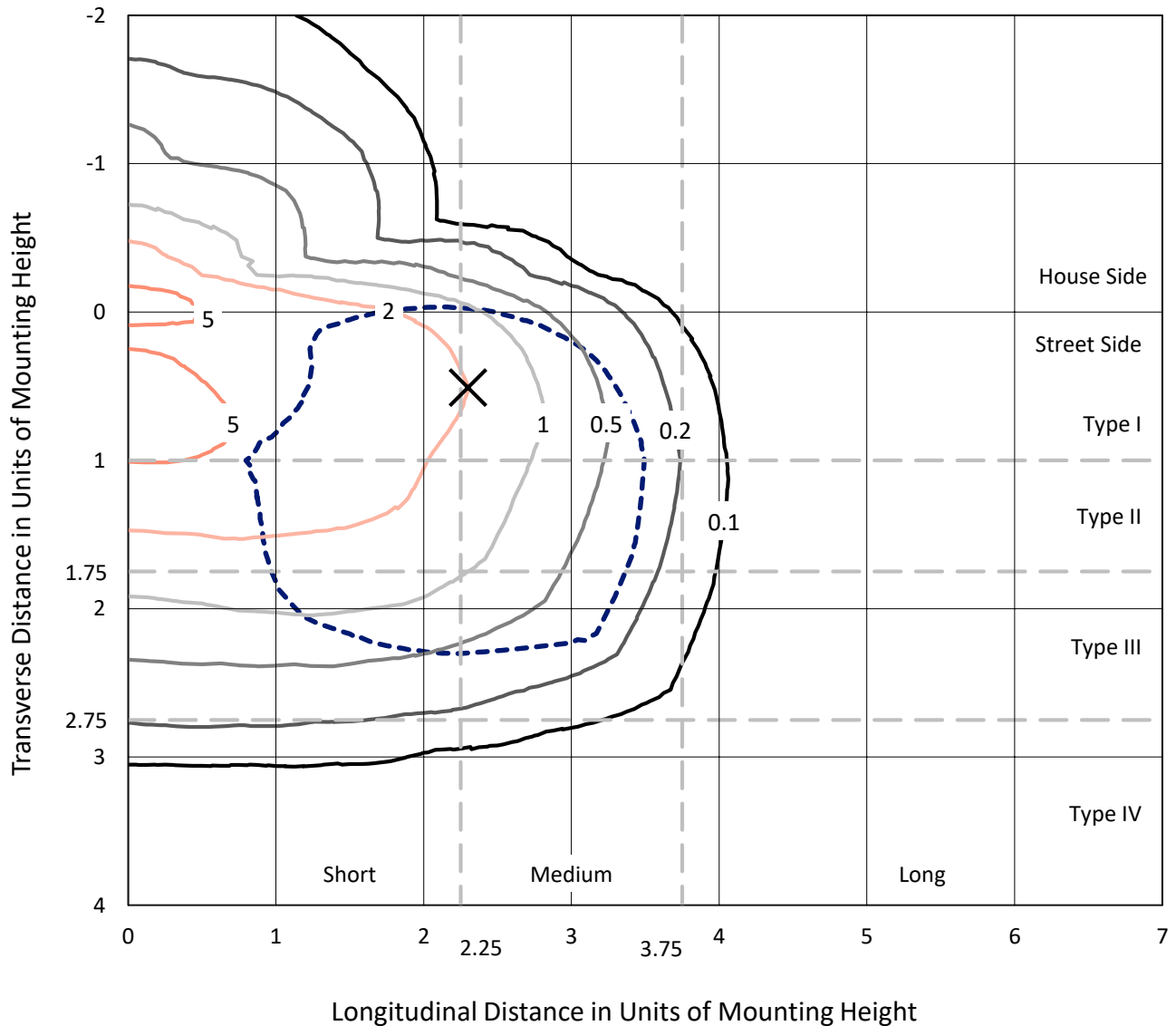
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P198778
 CATALOG NUMBER: XNV-AF-01-LED-U-T3R-600

Iso-Footcandle Lines of Horizontal Illumination

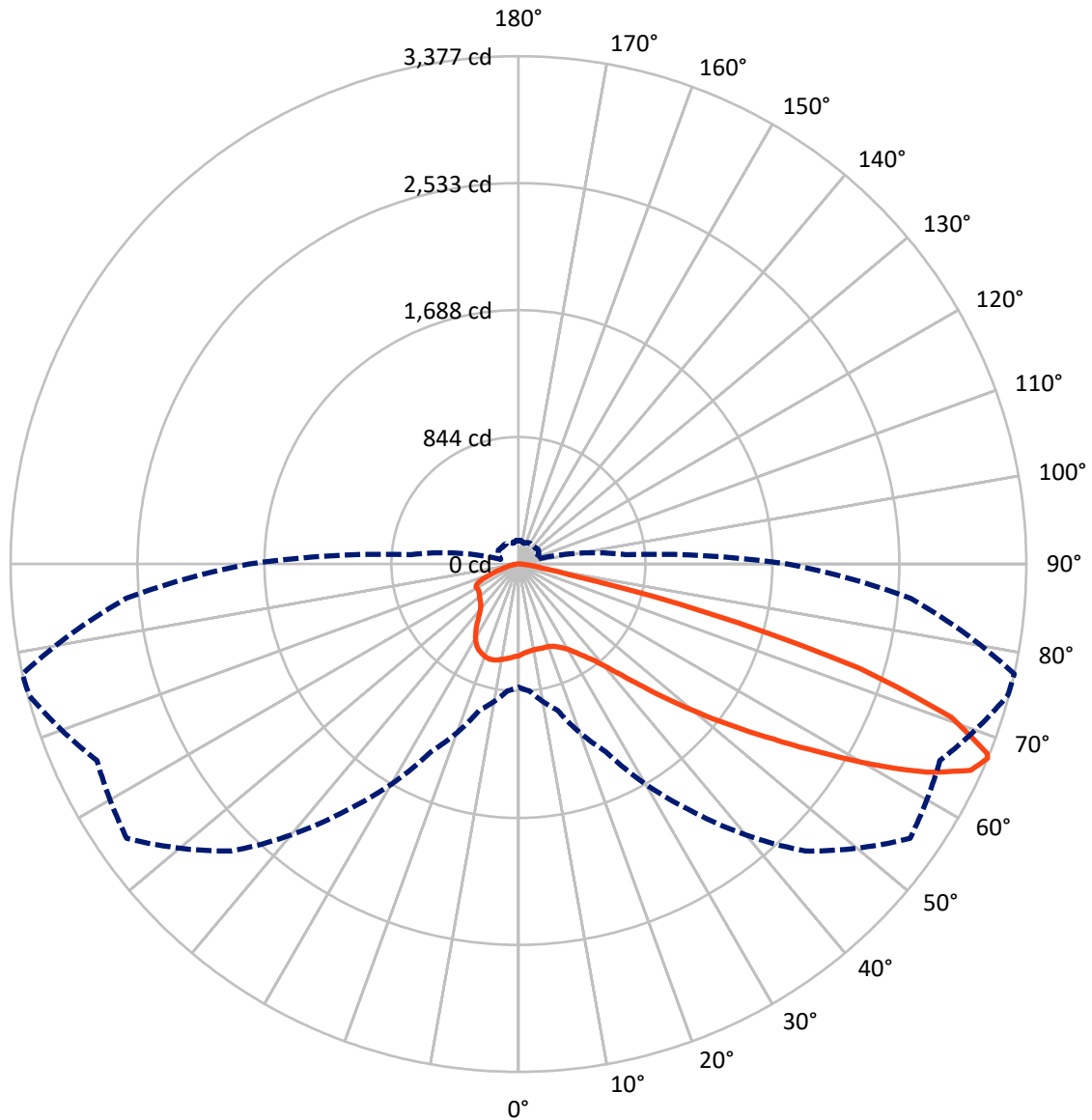
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Medium - Full Cutoff

REPORT NUMBER: P198778
CATALOG NUMBER: XNV-AF-01-LED-U-T3R-600

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P198778

CATALOG NUMBER: XNV-AF-01-LED-U-T3R-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	712.5	0.0	712.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	3433.5	0.0	3433.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	4146.0	0.0	4146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	1.3
10°-20°	150.5	3.6
20°-30°	255.7	6.2
30°-40°	409.1	9.9
40°-50°	629.8	15.2
50°-60°	873.8	21.1
60°-70°	1165.6	28.1
70°-80°	554.7	13.4
80°-90°	52.5	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°	4146.0	100.0
0°-180°	4146.0	100.0

Coefficient of Utilization



REPORT NUMBER: P198778

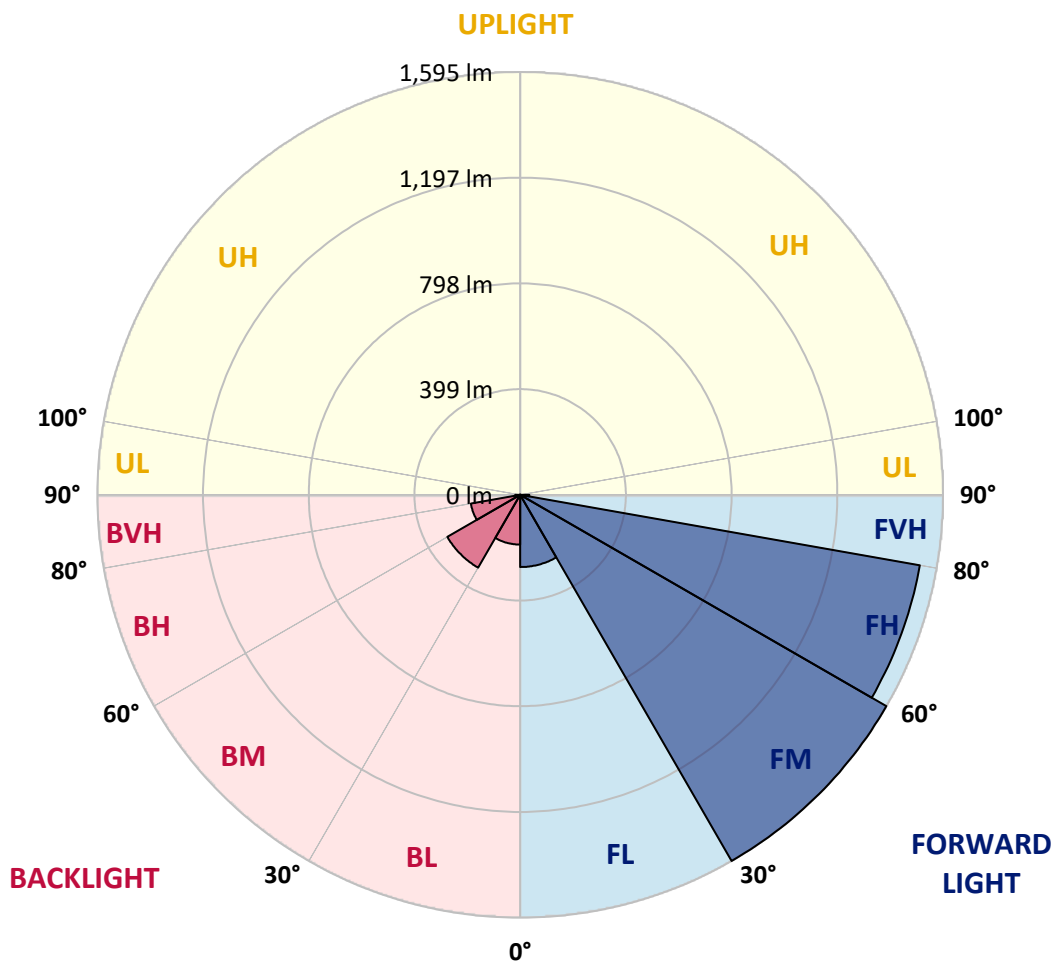
CATALOG NUMBER: XNV-AF-01-LED-U-T3R-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	272.6	6.6			
FM	(30°-60°)	1595.4	38.5			
FH	(60°-80°)	1531.3	36.9			G1/1800
FVH	(80°-90°)	34.1	0.8			G1/100
BL	(0°-30°)	187.9	4.5	B1/500		
BM	(30°-60°)	317.2	7.7	B1/1000		
BH	(60°-80°)	188.9	4.6	B1/500		G1/500
BVH	(80°-90°)	18.4	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





REPORT NUMBER: P198778

CATALOG NUMBER: XNV-AF-01-LED-U-T3R-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2
2.5°	547.2	549.7	549.9	557.4	560.7	569.2	578.4	586.6	593.8	596.4	601.0
5°	492.3	492.3	493.1	498.0	507.4	521.0	540.2	561.2	583.3	588.7	602.2
7.5°	463.6	464.1	464.6	469.5	476.9	489.0	508.2	536.8	573.6	582.5	606.3
10°	466.2	465.3	462.8	461.8	464.8	472.6	489.2	518.7	565.4	579.2	613.8
12.5°	506.4	504.8	496.4	484.1	472.8	470.0	481.5	509.4	561.5	579.2	626.4
15°	575.3	576.3	559.7	534.1	504.6	484.6	483.0	506.2	560.2	580.7	641.0
17.5°	665.0	665.5	642.5	605.3	556.4	515.2	493.6	506.2	560.2	582.3	655.0
20°	760.4	756.8	730.6	683.9	620.4	557.4	512.8	509.2	561.7	584.5	668.4
22.5°	842.1	838.8	811.4	762.4	689.7	607.3	538.7	519.5	570.2	594.0	687.1
25°	913.6	915.6	889.0	833.9	758.5	663.8	577.4	543.1	587.9	611.2	710.1
27.5°	1000.4	996.7	965.9	913.4	829.5	722.2	625.8	572.8	608.9	632.0	738.4
30°	1100.9	1099.2	1057.6	1003.5	907.8	787.6	673.7	604.8	636.3	660.4	773.7
32.5°	1222.9	1222.6	1178.1	1111.7	995.6	861.3	730.4	648.7	676.3	700.6	820.6
35°	1361.0	1360.8	1314.7	1227.0	1096.8	943.1	797.0	701.9	725.8	751.4	876.5
37.5°	1456.9	1455.4	1431.3	1346.2	1208.8	1038.2	880.2	773.7	781.8	810.6	943.9
40°	1475.4	1484.6	1505.4	1455.1	1331.1	1143.8	963.8	850.8	858.6	895.4	1028.7
42.5°	1455.4	1467.4	1536.4	1550.5	1453.3	1271.6	1068.4	957.7	967.4	1013.3	1128.4
45°	1438.0	1448.5	1534.8	1603.3	1574.0	1411.1	1198.8	1088.1	1106.6	1163.5	1242.2
47.5°	1408.2	1417.9	1504.6	1612.7	1643.0	1545.4	1355.9	1244.9	1276.7	1345.7	1371.8
50°	1406.7	1411.1	1463.3	1581.0	1666.8	1647.4	1529.9	1428.4	1477.1	1556.6	1515.3
52.5°	1367.7	1398.3	1445.6	1530.2	1667.3	1706.8	1701.4	1629.7	1704.7	1792.6	1672.7
55°	1129.4	1164.5	1386.7	1505.4	1664.2	1757.7	1858.0	1843.7	1961.0	2053.5	1849.0
57.5°	1054.6	1069.4	1216.5	1512.7	1689.8	1842.1	2014.6	2073.5	2254.2	2355.1	2060.4
60°	1034.1	1049.6	1182.4	1516.3	1759.3	1995.6	2227.0	2333.1	2598.9	2706.0	2300.5
62.5°	1011.3	1031.5	1185.0	1519.7	1881.3	2222.7	2508.9	2614.8	2952.7	3048.4	2525.6
65°	944.6	971.5	1137.6	1498.7	2014.8	2507.7	2881.6	2908.5	3245.2	3305.9	2661.4
67°	818.3	847.7	1007.4	1377.2	2002.5	2699.6	3179.5	3092.2	3369.5	3376.9	2617.3
67.5°	778.3	808.8	963.3	1326.8	1967.4	2724.7	3232.3	3117.5	3368.5	3360.3	2576.3
70°	524.1	558.4	682.2	974.1	1578.1	2535.8	3219.5	3039.4	3147.5	3053.5	2213.5
72.5°	260.1	261.2	340.3	533.6	956.2	1818.8	2685.8	2600.1	2551.4	2373.9	1624.2
75°	125.3	127.7	160.7	235.8	403.1	939.0	1831.6	1754.5	1493.8	1293.4	812.9
77.5°	95.5	97.9	124.8	153.5	168.1	306.3	907.3	733.1	432.8	345.8	229.1
80°	73.9	78.2	105.4	117.8	111.2	122.8	285.2	224.5	168.4	154.6	113.5
82.5°	57.7	60.3	89.4	89.4	76.9	82.2	132.8	129.7	104.5	94.3	61.0
85°	40.7	45.8	72.0	66.6	50.5	51.0	79.5	76.1	53.8	43.3	23.8
87.5°	18.2	23.3	51.2	43.6	26.9	20.8	32.5	27.9	21.3	16.4	11.0
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: P198778

CATALOG NUMBER: XNV-AF-01-LED-U-T3R-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2
2.5°	606.1	610.2	616.6	620.4	625.5	627.6	629.6	633.2	636.1	635.3	634.0
5°	611.7	618.7	626.6	629.1	629.1	626.6	625.0	625.3	624.5	624.0	622.5
7.5°	619.9	629.4	635.0	632.5	624.5	614.6	605.1	599.4	594.0	590.8	591.8
10°	631.5	642.0	642.2	631.0	611.9	590.2	571.5	559.5	547.9	542.8	544.3
12.5°	648.1	658.6	649.7	625.3	592.0	557.9	523.5	498.7	476.4	471.1	469.5
15°	666.0	674.2	654.3	613.3	563.2	507.2	449.5	412.4	387.5	383.1	381.6
17.5°	681.7	686.3	651.9	591.8	517.9	429.5	362.3	337.3	332.2	334.7	334.7
20°	695.5	694.0	642.0	558.4	446.4	343.4	304.4	304.2	311.1	317.5	318.0
22.5°	713.0	700.9	626.0	508.9	361.1	286.5	279.9	286.5	294.2	301.4	302.2
25°	733.7	708.6	604.8	438.4	290.3	260.1	262.9	268.5	273.4	279.1	279.4
27.5°	754.4	714.5	574.8	355.7	252.0	243.2	246.3	248.6	249.9	253.5	253.5
30°	778.6	719.1	531.5	285.0	234.3	228.3	226.6	225.6	226.6	231.4	231.7
32.5°	808.8	727.3	472.3	244.5	226.1	217.8	208.6	203.5	207.0	215.7	217.3
35°	843.1	737.0	401.3	228.3	223.2	212.7	195.8	187.8	189.1	197.1	198.4
37.5°	886.2	749.6	331.3	224.5	226.1	212.2	189.9	178.6	173.0	173.3	173.0
40°	941.3	762.2	276.0	225.6	232.2	213.5	187.1	169.4	157.6	158.1	159.2
42.5°	998.9	770.4	240.9	228.6	239.6	215.2	186.1	160.4	150.2	158.9	166.8
45°	1066.3	768.0	222.7	231.4	245.3	216.0	182.2	159.4	151.0	177.1	191.9
47.5°	1143.8	758.0	212.5	232.7	246.8	215.7	179.4	162.8	157.3	202.7	219.6
50°	1227.8	742.5	204.3	230.7	246.0	214.7	182.5	166.8	159.9	208.4	221.5
52.5°	1319.8	728.0	195.8	226.1	242.1	211.6	186.3	165.0	152.7	191.9	201.9
55°	1428.8	724.8	186.3	218.1	235.8	208.4	184.2	159.4	144.7	170.1	176.4
57.5°	1553.2	745.5	174.0	208.4	227.1	201.7	179.4	156.3	142.0	154.8	158.1
60°	1711.4	791.4	160.9	198.1	216.3	191.7	175.0	157.1	142.7	152.5	153.2
62.5°	1834.9	832.6	149.1	185.6	201.9	179.6	170.4	157.8	145.1	155.6	154.3
65°	1879.8	812.4	134.5	166.8	181.7	166.3	164.0	158.4	145.1	157.3	154.6
67°	1787.7	715.8	120.7	148.1	162.4	154.6	157.8	156.3	142.5	157.1	152.2
67.5°	1743.9	681.7	117.1	145.1	157.3	151.0	156.3	155.3	141.7	156.6	151.0
70°	1438.2	489.0	98.9	121.7	131.8	133.0	146.8	148.6	135.5	147.1	136.9
72.5°	1023.3	306.0	85.3	94.3	106.4	113.8	134.0	139.6	127.4	127.9	119.4
75°	506.4	164.3	76.1	72.7	82.8	94.8	116.8	127.4	115.3	106.6	103.8
77.5°	170.9	93.0	64.3	58.7	64.3	76.1	96.9	111.2	101.8	90.2	88.4
80°	88.4	67.6	50.2	47.2	50.7	58.9	75.9	92.5	86.8	87.4	72.0
82.5°	55.1	41.2	36.1	35.9	38.5	45.1	55.9	75.1	74.6	63.8	46.3
85°	25.7	23.8	23.0	23.8	24.7	25.7	36.4	53.6	56.7	34.4	30.5
87.5°	10.7	10.5	9.2	10.0	11.0	10.7	14.6	22.8	31.8	21.5	19.7
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)