

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: P198940

Luminaire Tested: **XNV-AF-01-LED-U-T3R-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198940
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-7050-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4971 lumens
Efficiency: N/A
Efficacy: 113.0 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 - G2

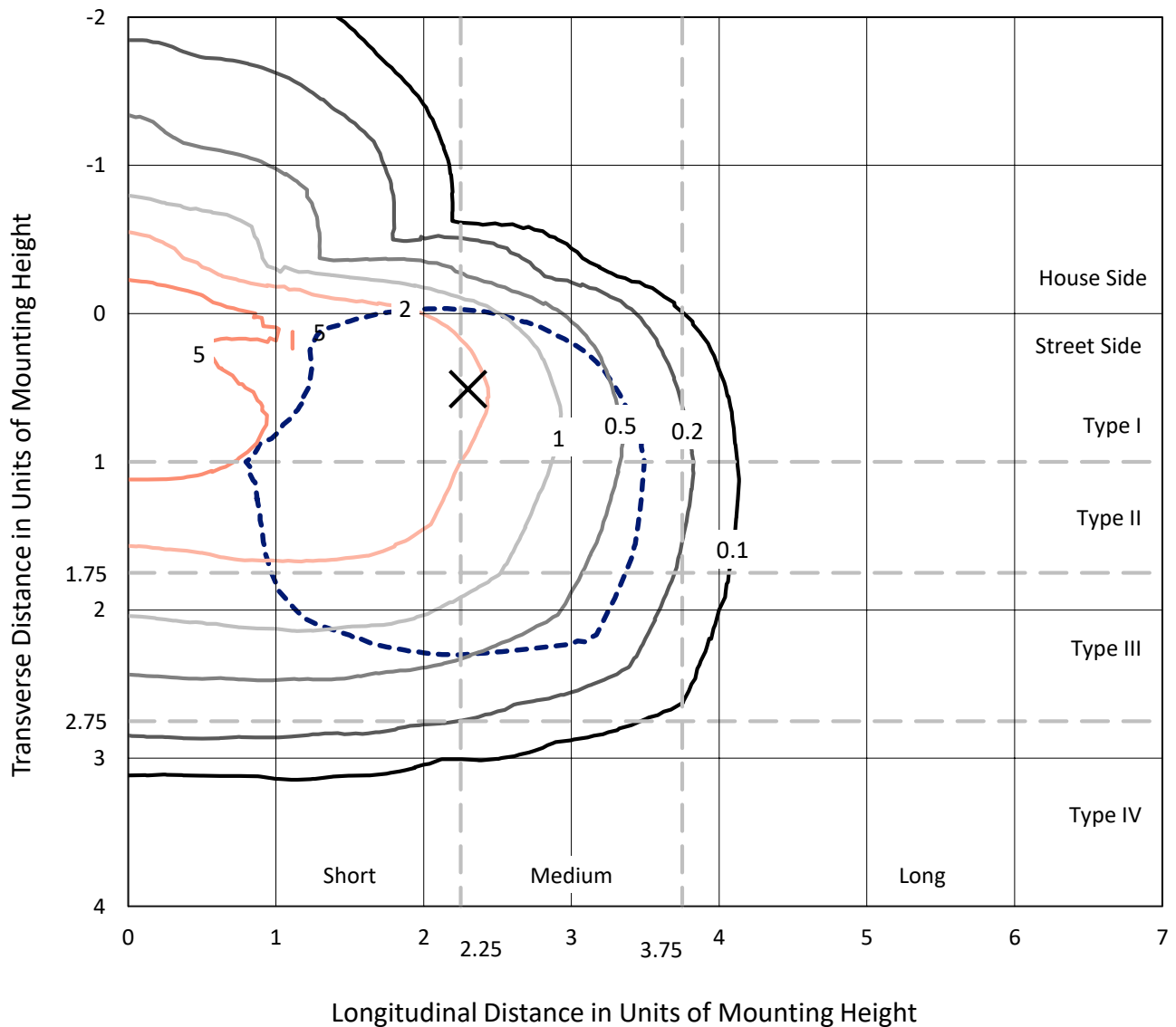
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P198940
 CATALOG NUMBER: XNV-AF-01-LED-U-T3R-7050-800

Iso-Footcandle Lines of Horizontal Illumination

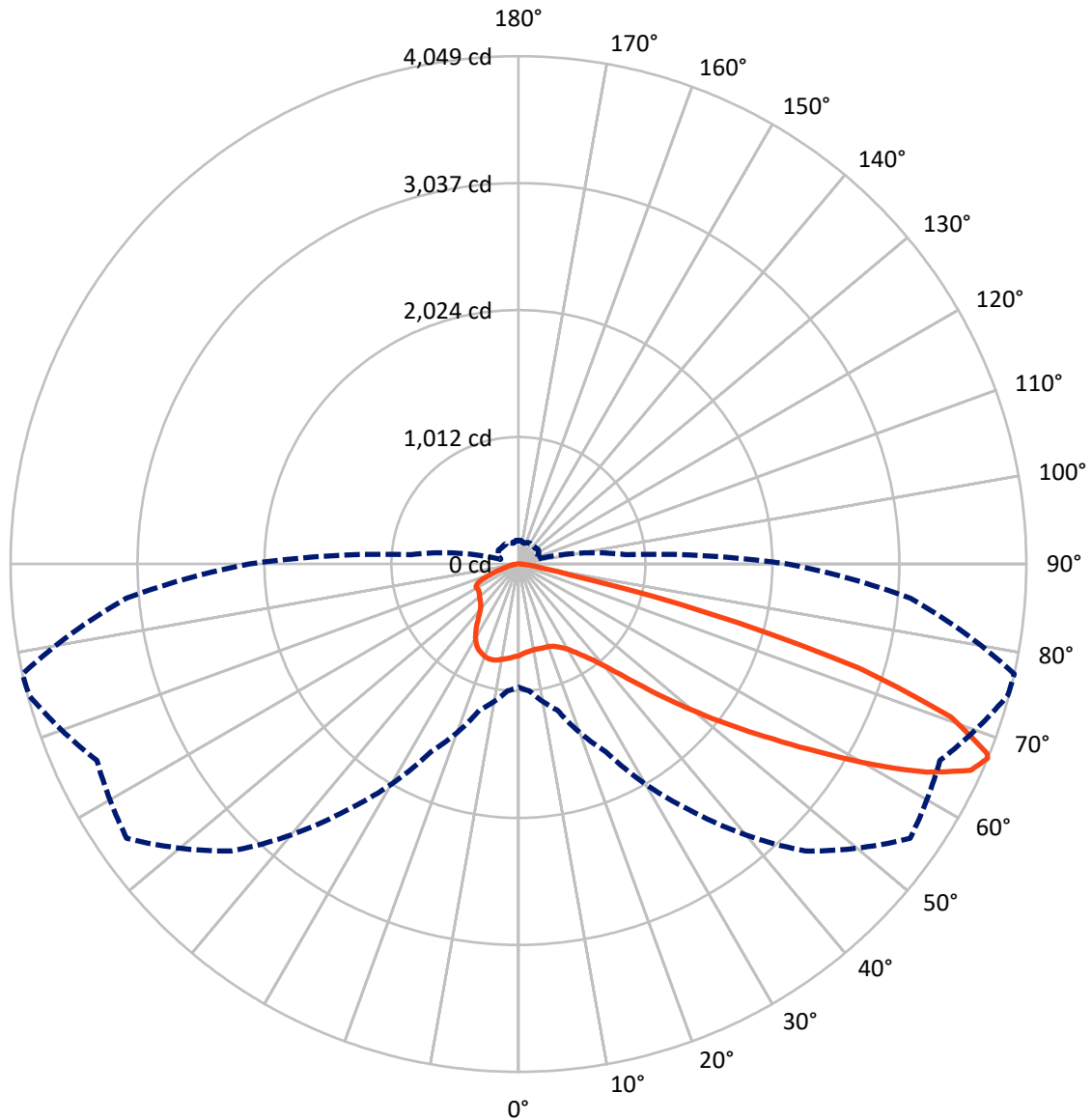
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Medium - Full Cutoff

REPORT NUMBER: P198940
CATALOG NUMBER: XNV-AF-01-LED-U-T3R-7050-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P198940

CATALOG NUMBER: XNV-AF-01-LED-U-T3R-7050-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	854.3	0.0	854.3
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	4116.7	0.0	4116.7
	% Fixture	82.8	0.0	82.8
Total	Lumens	4971.0	0.0	4971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	1.3
10°-20°	180.5	3.6
20°-30°	306.6	6.2
30°-40°	490.5	9.9
40°-50°	755.1	15.2
50°-60°	1047.6	21.1
60°-70°	1397.5	28.1
70°-80°	665.1	13.4
80°-90°	63.0	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°	4971.0	100.0
0°-180°	4971.0	100.0

Coefficient of Utilization



REPORT NUMBER: P198940

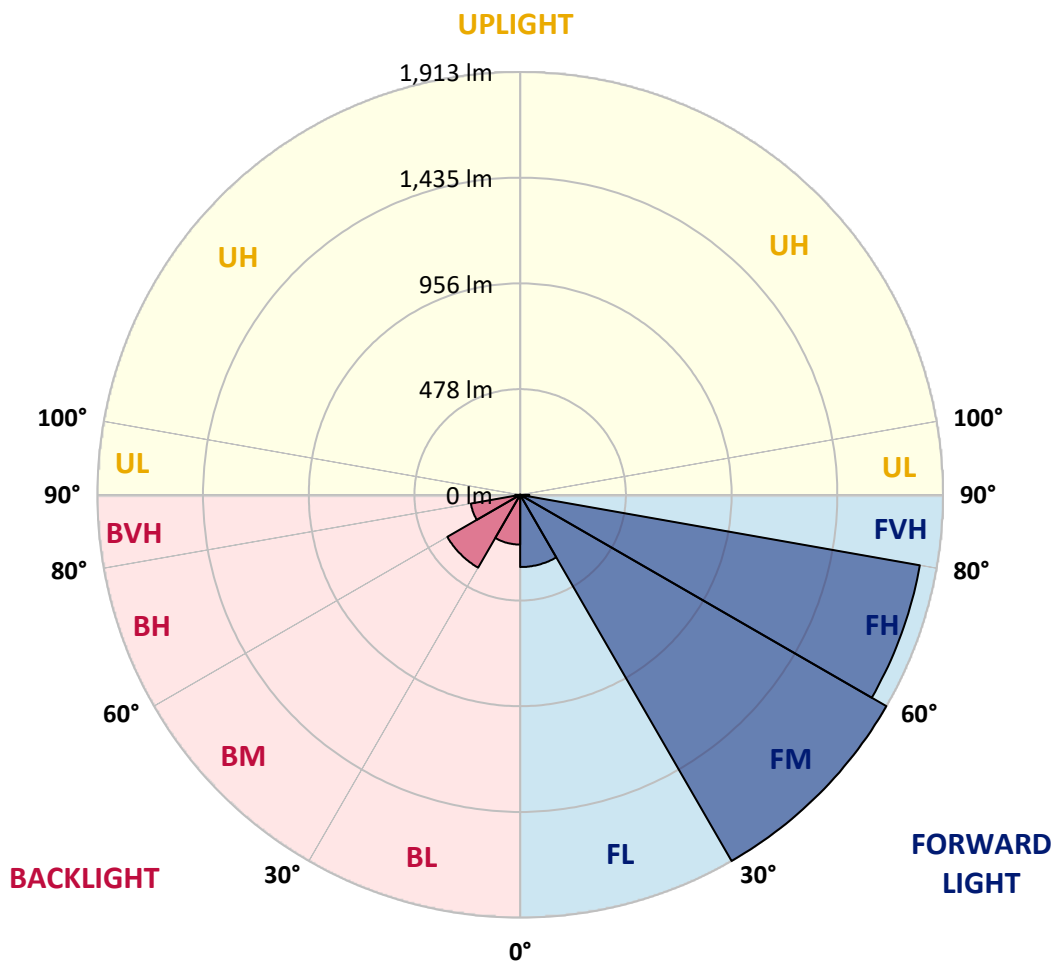
CATALOG NUMBER: XNV-AF-01-LED-U-T3R-7050-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	326.9	6.6			
FM (30°-60°)	1912.9	38.5			
FH (60°-80°)	1836.0	36.9			G2/5000
FVH (80°-90°)	40.9	0.8			G1/100
BL (0°-30°)	225.3	4.5	B1/500		
BM (30°-60°)	380.4	7.7	B1/1000		
BH (60°-80°)	226.5	4.6	B1/500		G1/500
BVH (80°-90°)	22.1	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-G2

Type III Medium





REPORT NUMBER: P198940
 CATALOG NUMBER: XNV-AF-01-LED-U-T3R-7050-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6
2.5°	656.0	659.1	659.4	668.3	672.3	682.4	693.5	703.3	711.9	715.0	720.5
5°	590.3	590.3	591.2	597.0	608.4	624.7	647.7	672.9	699.3	705.8	722.1
7.5°	555.8	556.5	557.1	562.9	571.8	586.3	609.3	643.7	687.7	698.4	727.0
10°	558.9	558.0	554.9	553.7	557.4	566.6	586.6	621.9	677.8	694.4	735.9
12.5°	607.2	605.3	595.2	580.4	566.9	563.5	577.4	610.8	673.2	694.4	751.0
15°	689.8	691.0	671.1	640.3	605.0	581.0	579.2	606.9	671.7	696.3	768.5
17.5°	797.4	798.0	770.3	725.8	667.1	617.6	591.8	606.9	671.7	698.1	785.4
20°	911.7	907.4	876.0	820.1	743.9	668.3	614.8	610.5	673.5	700.9	801.3
22.5°	1009.7	1005.7	972.8	914.1	826.9	728.2	645.9	622.8	683.7	712.2	823.8
25°	1095.4	1097.9	1065.9	999.8	909.5	795.8	692.3	651.1	704.9	732.8	851.4
27.5°	1199.6	1195.0	1158.1	1095.1	994.6	865.9	750.3	686.7	730.1	757.7	885.2
30°	1320.0	1317.9	1268.1	1203.3	1088.3	944.2	807.8	725.1	762.9	791.8	927.6
32.5°	1466.3	1466.0	1412.5	1332.9	1193.7	1032.7	875.7	777.7	810.9	840.1	983.9
35°	1631.9	1631.6	1576.3	1471.2	1315.1	1130.7	955.6	841.6	870.2	900.9	1050.9
37.5°	1746.8	1745.0	1716.1	1614.1	1449.4	1244.7	1055.5	927.6	937.5	971.9	1131.7
40°	1768.9	1780.0	1804.9	1744.7	1595.9	1371.3	1155.6	1020.1	1029.3	1073.6	1233.4
42.5°	1745.0	1759.4	1842.1	1859.0	1742.5	1524.7	1281.0	1148.3	1159.9	1214.9	1352.9
45°	1724.1	1736.7	1840.2	1922.3	1887.2	1691.8	1437.4	1304.7	1326.8	1395.0	1489.3
47.5°	1688.4	1700.1	1804.0	1933.6	1969.9	1852.8	1625.7	1492.7	1530.8	1613.5	1644.8
50°	1686.6	1691.8	1754.5	1895.5	1998.5	1975.1	1834.4	1712.7	1771.1	1866.3	1816.9
52.5°	1639.9	1676.4	1733.3	1834.7	1999.1	2046.4	2039.9	1953.9	2043.9	2149.3	2005.5
55°	1354.1	1396.2	1662.6	1804.9	1995.4	2107.5	2227.7	2210.5	2351.2	2462.1	2216.9
57.5°	1264.4	1282.2	1458.6	1813.8	2026.1	2208.6	2415.4	2486.1	2702.7	2823.8	2470.4
60°	1239.8	1258.6	1417.7	1818.1	2109.4	2392.7	2670.1	2797.4	3116.0	3244.4	2758.3
62.5°	1212.5	1236.7	1420.8	1822.1	2255.6	2664.9	3008.1	3135.0	3540.3	3654.9	3028.1
65°	1132.6	1164.8	1364.0	1796.9	2415.7	3006.6	3454.9	3487.2	3890.9	3963.7	3191.0
67°	981.1	1016.4	1207.9	1651.2	2401.0	3236.7	3812.3	3707.5	4039.9	4048.8	3138.1
67.5°	933.2	969.7	1155.0	1590.7	2358.9	3266.9	3875.5	3737.9	4038.7	4028.9	3088.9
70°	628.4	669.5	817.9	1167.9	1892.1	3040.4	3860.2	3644.2	3773.8	3661.1	2653.9
72.5°	311.9	313.1	408.0	639.7	1146.4	2180.7	3220.1	3117.5	3059.1	2846.2	1947.5
75°	150.3	153.0	192.7	282.7	483.3	1125.8	2196.0	2103.5	1791.1	1550.8	974.6
77.5°	114.6	117.4	149.6	184.1	201.6	367.2	1087.7	879.1	519.0	414.5	274.7
80°	88.5	93.7	126.3	141.3	133.4	147.2	342.0	269.2	201.9	185.3	136.1
82.5°	69.1	72.2	107.2	107.2	92.2	98.6	159.2	155.5	125.4	113.1	73.1
85°	48.9	55.0	86.3	79.9	60.5	61.1	95.3	91.3	64.5	51.9	28.6
87.5°	21.8	28.0	61.5	52.2	32.3	24.9	39.0	33.5	25.5	19.7	13.2
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: P198940
 CATALOG NUMBER: XNV-AF-01-LED-U-T3R-7050-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6
2.5°	726.7	731.6	739.3	743.9	750.0	752.5	755.0	759.3	762.6	761.7	760.2
5°	733.4	741.7	751.3	754.3	754.3	751.3	749.4	749.7	748.8	748.2	746.3
7.5°	743.3	754.6	761.4	758.3	748.8	736.8	725.5	718.7	712.2	708.2	709.5
10°	757.1	769.7	770.0	756.5	733.8	707.6	685.2	670.8	656.9	650.8	652.6
12.5°	777.1	789.7	778.9	749.7	709.8	668.9	627.7	597.9	571.2	564.8	562.9
15°	798.6	808.4	784.5	735.3	675.4	608.1	538.9	494.4	464.6	459.4	457.5
17.5°	817.3	822.9	781.7	709.5	621.0	515.0	434.5	404.4	398.2	401.3	401.3
20°	833.9	832.1	769.7	669.5	535.3	411.7	365.0	364.7	373.0	380.7	381.3
22.5°	854.8	840.4	750.7	610.2	432.9	343.5	335.5	343.5	352.7	361.3	362.3
25°	879.7	849.6	725.1	525.7	348.1	311.9	315.3	322.0	327.9	334.6	334.9
27.5°	904.6	856.7	689.2	426.5	302.0	291.6	295.3	298.0	299.6	303.9	303.9
30°	933.5	862.2	637.3	341.7	280.8	273.8	271.6	270.4	271.6	277.5	277.8
32.5°	969.7	872.0	566.3	293.1	271.0	261.2	250.1	244.0	248.3	258.7	260.6
35°	1010.9	883.7	481.2	273.8	267.6	255.0	234.8	225.2	226.8	236.3	237.8
37.5°	1062.5	898.8	397.3	269.2	271.0	254.4	227.7	214.2	207.4	207.7	207.4
40°	1128.6	913.8	330.9	270.4	278.4	256.0	224.3	203.1	189.0	189.6	190.8
42.5°	1197.7	923.6	288.8	274.1	287.3	258.1	223.1	192.3	180.1	190.5	200.0
45°	1278.5	920.9	267.0	277.5	294.1	259.0	218.5	191.1	181.0	212.3	230.1
47.5°	1371.3	908.9	254.7	279.0	295.9	258.7	215.1	195.1	188.7	243.0	263.3
50°	1472.1	890.1	244.9	276.5	295.0	257.5	218.8	200.0	191.7	249.8	265.5
52.5°	1582.4	872.9	234.8	271.0	290.4	253.8	223.4	197.9	183.1	230.1	242.1
55°	1713.0	868.9	223.4	261.5	282.7	249.8	220.9	191.1	173.6	204.0	211.4
57.5°	1862.3	893.8	208.6	249.8	272.2	241.8	215.1	187.4	170.2	185.6	189.6
60°	2051.9	948.8	193.0	237.5	259.3	229.8	209.9	188.4	171.1	182.8	183.7
62.5°	2200.0	998.3	178.8	222.5	242.1	215.4	204.3	189.3	173.9	186.5	185.0
65°	2253.8	974.0	161.3	200.0	217.9	199.4	196.7	189.9	173.9	188.7	185.3
67°	2143.5	858.2	144.7	177.6	194.8	185.3	189.3	187.4	170.8	188.4	182.5
67.5°	2090.9	817.3	140.4	173.9	188.7	181.0	187.4	186.2	169.9	187.7	181.0
70°	1724.4	586.3	118.6	146.0	157.9	159.5	176.1	178.2	162.5	176.4	164.1
72.5°	1226.9	366.9	102.3	113.1	127.5	136.4	160.7	167.5	152.7	153.3	143.2
75°	607.2	197.0	91.3	87.3	99.2	113.7	140.1	152.7	138.3	127.8	124.4
77.5°	204.9	111.5	77.1	70.4	77.1	91.3	116.1	133.4	122.0	108.2	106.0
80°	106.0	81.1	60.2	56.5	60.8	70.7	91.0	110.9	104.2	104.8	86.3
82.5°	66.1	49.5	43.3	43.0	46.1	54.1	67.0	90.0	89.4	76.5	55.6
85°	30.7	28.6	27.7	28.6	29.5	30.7	43.6	64.2	67.9	41.2	36.6
87.5°	12.9	12.6	11.1	12.0	13.2	12.9	17.5	27.3	38.1	25.8	23.7
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)