

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: P198620

Luminaire Tested: **XNV-AF-01-LED-U-T3R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198620
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-7030-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 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: 4400 lumens
Efficiency: N/A
Efficacy: 100.0 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 - G1

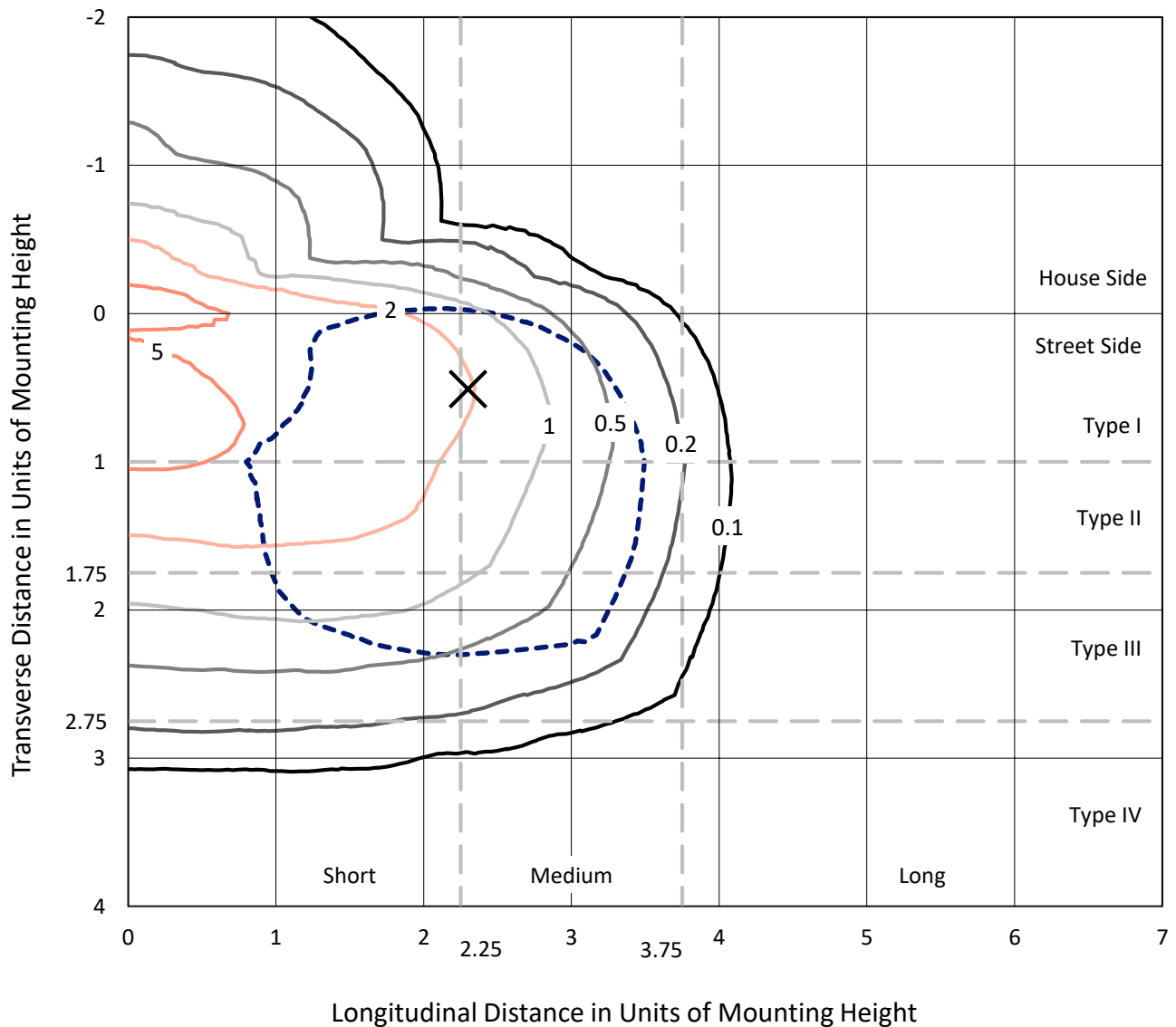
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P198620
 CATALOG NUMBER: XNV-AF-01-LED-U-T3R-7030-800

Iso-Footcandle Lines of Horizontal Illumination

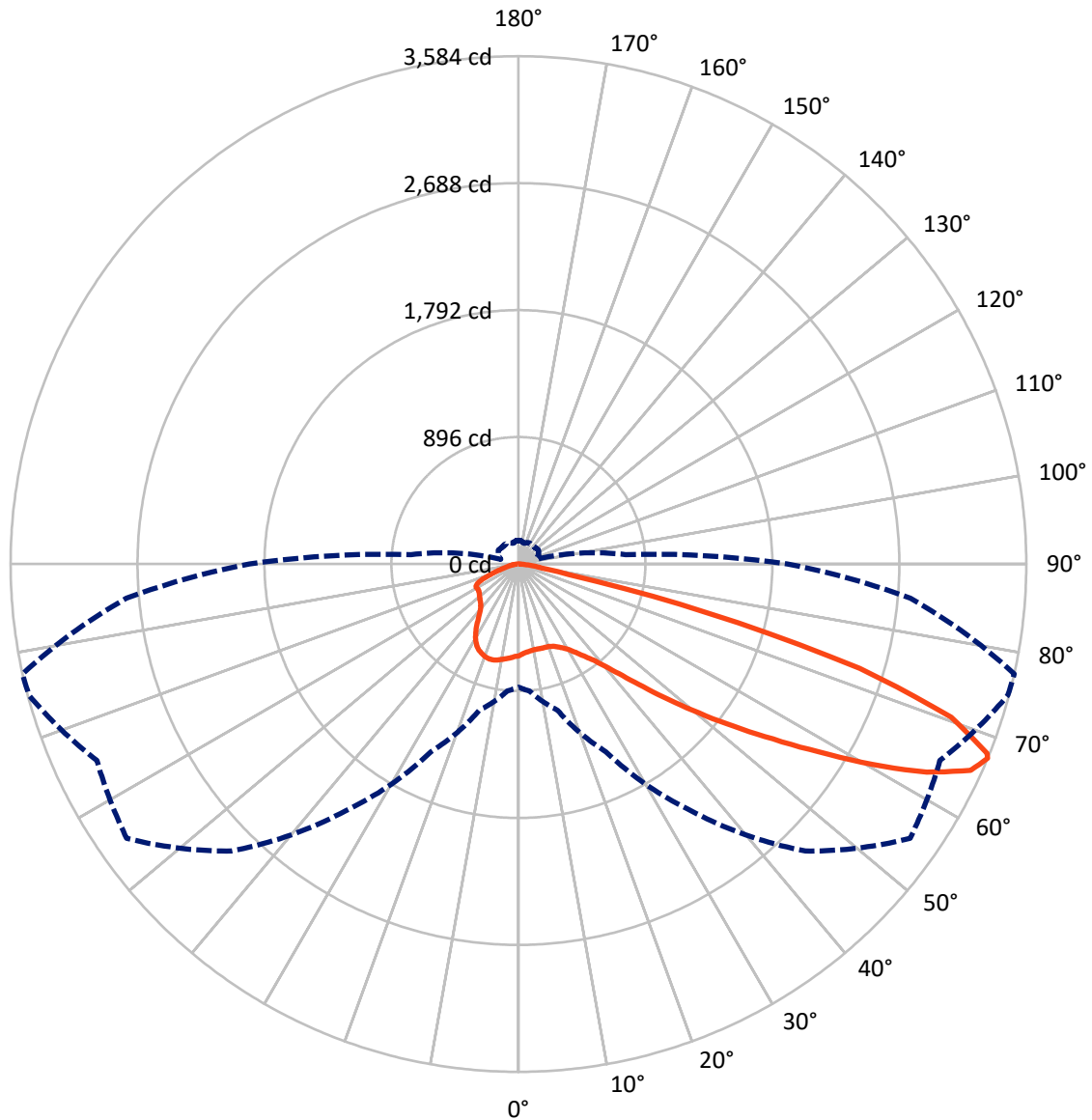
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Medium - Full Cutoff

REPORT NUMBER: P198620
CATALOG NUMBER: XNV-AF-01-LED-U-T3R-7030-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P198620

CATALOG NUMBER: XNV-AF-01-LED-U-T3R-7030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	756.1	0.0	756.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	3643.9	0.0	3643.9
	% Fixture	82.8	0.0	82.8
Total	Lumens	4400.0	0.0	4400.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	1.3
10°-20°	159.7	3.6
20°-30°	271.4	6.2
30°-40°	434.2	9.9
40°-50°	668.4	15.2
50°-60°	927.3	21.1
60°-70°	1237.0	28.1
70°-80°	588.7	13.4
80°-90°	55.7	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°	4400.0	100.0
0°-180°	4400.0	100.0



REPORT NUMBER: P198620

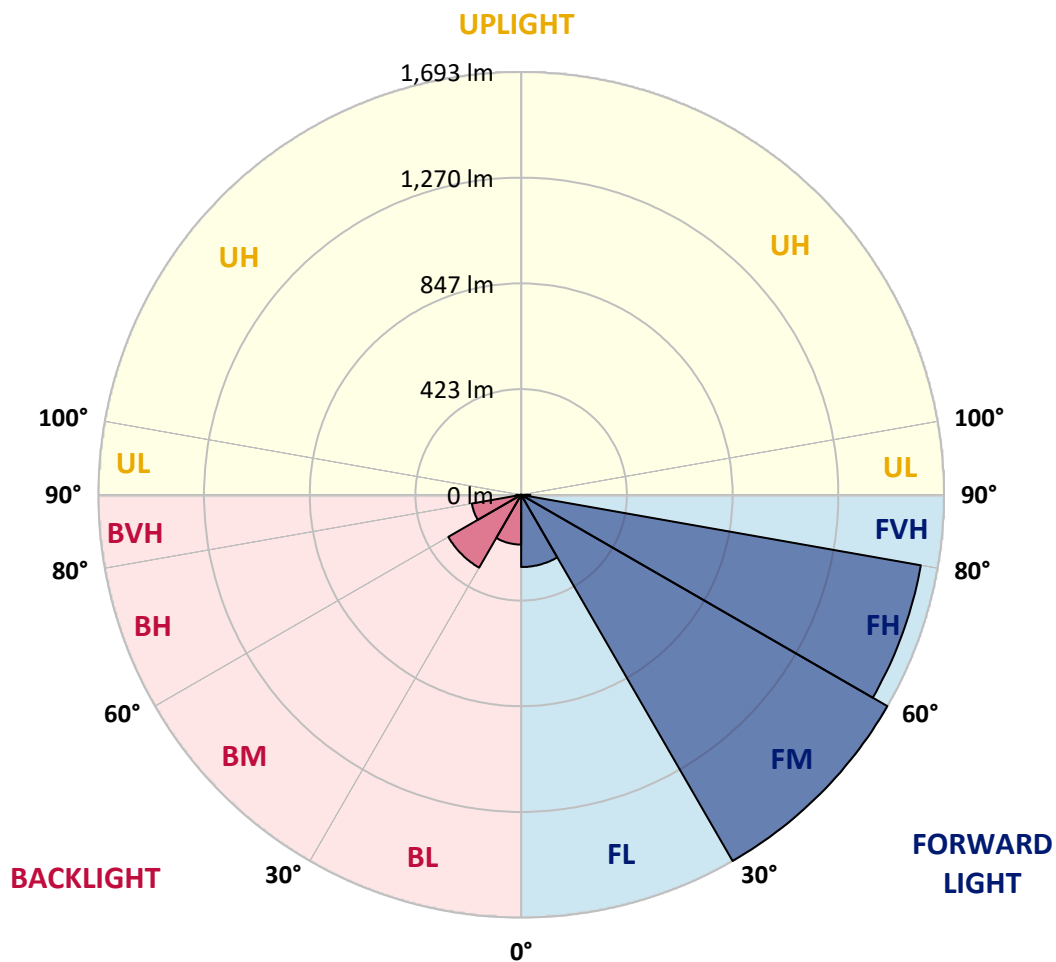
CATALOG NUMBER: XNV-AF-01-LED-U-T3R-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	289.3	6.6			
FM	(30°-60°)	1693.2	38.5			
FH	(60°-80°)	1625.1	36.9			G1/1800
FVH	(80°-90°)	36.2	0.8			G1/100
BL	(0°-30°)	199.4	4.5	B1/500		
BM	(30°-60°)	336.7	7.7	B1/1000		
BH	(60°-80°)	200.5	4.6	B1/500		G1/500
BVH	(80°-90°)	19.5	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: P198620
 CATALOG NUMBER: XNV-AF-01-LED-U-T3R-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6
2.5°	580.7	583.4	583.7	591.5	595.1	604.0	613.8	622.5	630.2	632.9	637.8
5°	522.5	522.5	523.3	528.4	538.5	552.9	573.3	595.6	619.0	624.7	639.1
7.5°	492.0	492.5	493.1	498.3	506.1	518.9	539.3	569.8	608.7	618.2	643.5
10°	494.7	493.9	491.2	490.1	493.4	501.5	519.2	550.5	600.0	614.7	651.4
12.5°	537.4	535.8	526.8	513.8	501.8	498.8	511.0	540.7	595.9	614.7	664.7
15°	610.6	611.7	594.0	566.8	535.5	514.3	512.7	537.1	594.5	616.3	680.2
17.5°	705.8	706.3	681.8	642.4	590.5	546.7	523.8	537.1	594.5	617.9	695.2
20°	806.9	803.1	775.4	725.9	658.4	591.5	544.2	540.4	596.2	620.4	709.3
22.5°	893.7	890.2	861.1	809.1	731.9	644.6	571.7	551.3	605.1	630.4	729.2
25°	969.6	971.8	943.5	885.0	805.0	704.4	612.8	576.3	623.9	648.7	753.6
27.5°	1061.8	1057.7	1025.1	969.3	880.4	766.4	664.2	607.9	646.2	670.7	783.6
30°	1168.4	1166.5	1122.4	1065.0	963.3	835.8	715.0	641.9	675.3	700.9	821.1
32.5°	1297.8	1297.6	1250.3	1179.8	1056.6	914.1	775.1	688.4	717.7	743.6	870.9
35°	1444.4	1444.2	1395.2	1302.2	1164.0	1000.9	845.8	744.9	770.2	797.4	930.1
37.5°	1546.2	1544.5	1519.0	1428.7	1282.9	1101.8	934.2	821.1	829.8	860.2	1001.7
40°	1565.7	1575.5	1597.6	1544.3	1412.6	1213.8	1022.9	902.9	911.1	950.3	1091.7
42.5°	1544.5	1557.3	1630.5	1645.4	1542.4	1349.5	1133.8	1016.4	1026.7	1075.4	1197.5
45°	1526.0	1537.2	1628.8	1701.5	1670.4	1497.5	1272.3	1154.8	1174.4	1234.8	1318.2
47.5°	1494.5	1504.8	1596.7	1711.5	1743.6	1640.0	1439.0	1321.2	1355.0	1428.1	1455.9
50°	1492.9	1497.5	1553.0	1677.8	1768.9	1748.2	1623.7	1516.0	1567.6	1652.0	1608.2
52.5°	1451.5	1483.9	1534.2	1623.9	1769.4	1811.3	1805.6	1729.5	1809.2	1902.4	1775.2
55°	1198.6	1235.8	1471.6	1597.6	1766.2	1865.5	1971.8	1956.6	2081.1	2179.3	1962.3
57.5°	1119.2	1134.9	1291.0	1605.4	1793.4	1954.9	2138.0	2200.5	2392.3	2499.4	2186.7
60°	1097.4	1114.0	1254.9	1609.3	1867.1	2117.8	2363.4	2476.0	2758.1	2871.7	2441.5
62.5°	1073.2	1094.7	1257.6	1612.8	1996.5	2358.8	2662.6	2774.9	3133.7	3235.1	2680.3
65°	1002.5	1031.0	1207.3	1590.5	2138.2	2661.2	3058.0	3086.6	3444.0	3508.4	2824.4
67°	868.4	899.7	1069.1	1461.6	2125.2	2864.9	3374.4	3281.6	3575.9	3583.8	2777.6
67.5°	826.0	858.3	1022.3	1408.0	2087.9	2891.6	3430.4	3308.5	3574.8	3566.1	2734.1
70°	556.2	592.6	724.0	1033.8	1674.8	2691.2	3416.8	3225.6	3340.4	3240.5	2349.0
72.5°	276.1	277.1	361.2	566.2	1014.7	1930.2	2850.3	2759.4	2707.7	2519.3	1723.8
75°	133.0	135.4	170.5	250.2	427.8	996.5	1943.8	1861.9	1585.3	1372.6	862.7
77.5°	101.4	103.9	132.5	162.9	178.4	325.0	962.8	778.1	459.4	366.9	243.1
80°	78.3	83.0	111.8	125.1	118.0	130.3	302.7	238.2	178.7	164.0	120.5
82.5°	61.2	63.9	94.9	94.9	81.6	87.3	140.9	137.6	111.0	100.1	64.7
85°	43.2	48.7	76.4	70.7	53.6	54.1	84.3	80.8	57.1	46.0	25.3
87.5°	19.3	24.7	54.4	46.2	28.6	22.0	34.5	29.6	22.6	17.4	11.7
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: P198620
 CATALOG NUMBER: XNV-AF-01-LED-U-T3R-7030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6
2.5°	643.2	647.6	654.4	658.4	663.9	666.1	668.2	672.0	675.0	674.2	672.9
5°	649.2	656.5	665.0	667.7	667.7	665.0	663.3	663.6	662.8	662.3	660.6
7.5°	657.9	668.0	673.9	671.2	662.8	652.2	642.1	636.1	630.4	626.9	628.0
10°	670.1	681.3	681.6	669.6	649.5	626.4	606.5	593.7	581.5	576.0	577.7
12.5°	687.8	699.0	689.4	663.6	628.3	592.1	555.6	529.3	505.6	499.9	498.3
15°	706.9	715.6	694.3	650.8	597.8	538.2	477.0	437.6	411.2	406.6	405.0
17.5°	723.4	728.3	691.9	628.0	549.7	455.8	384.6	357.9	352.5	355.2	355.2
20°	738.1	736.5	681.3	592.6	473.8	364.4	323.1	322.8	330.2	337.0	337.5
22.5°	756.6	743.8	664.4	540.1	383.2	304.1	297.0	304.1	312.2	319.8	320.7
25°	778.7	752.0	641.9	465.3	308.1	276.1	279.0	285.0	290.2	296.2	296.4
27.5°	800.7	758.3	610.0	377.5	267.3	258.1	261.4	263.8	265.2	269.0	269.0
30°	826.2	763.2	564.1	302.4	248.6	242.3	240.4	239.3	240.4	245.6	245.9
32.5°	858.3	771.9	501.2	259.5	239.9	231.2	221.4	215.9	219.8	229.0	230.6
35°	894.8	782.2	425.9	242.3	236.9	225.7	207.8	199.4	200.7	209.1	210.5
37.5°	940.5	795.5	351.7	238.2	239.9	225.2	201.5	189.6	183.6	183.9	183.6
40°	999.0	808.8	292.9	239.3	246.4	226.6	198.5	179.8	167.3	167.8	168.9
42.5°	1060.1	817.5	255.7	242.6	254.3	228.5	197.5	170.3	159.4	168.6	177.1
45°	1131.7	815.1	236.3	245.6	260.3	229.3	193.4	169.2	160.2	187.9	203.7
47.5°	1213.8	804.5	225.5	247.0	261.9	229.0	190.4	172.7	167.0	215.1	233.1
50°	1303.0	787.9	216.8	244.8	261.1	227.9	193.6	177.1	169.7	221.1	235.0
52.5°	1400.7	772.7	207.8	239.9	257.0	224.6	197.7	175.1	162.1	203.7	214.3
55°	1516.2	769.1	197.7	231.4	250.2	221.1	195.5	169.2	153.7	180.6	187.1
57.5°	1648.4	791.2	184.7	221.1	241.0	214.0	190.4	165.9	150.7	164.3	167.8
60°	1816.2	839.8	170.8	210.2	229.5	203.4	185.8	166.7	151.5	161.8	162.6
62.5°	1947.3	883.6	158.3	196.9	214.3	190.7	180.9	167.5	153.9	165.1	163.7
65°	1994.9	862.1	142.8	177.1	192.8	176.5	174.1	168.1	153.9	167.0	164.0
67°	1897.3	759.6	128.1	157.2	172.4	164.0	167.5	165.9	151.2	166.7	161.6
67.5°	1850.8	723.4	124.3	153.9	167.0	160.2	165.9	164.8	150.4	166.2	160.2
70°	1526.3	518.9	105.0	129.2	139.8	141.2	155.8	157.7	143.9	156.1	145.2
72.5°	1086.0	324.7	90.6	100.1	112.9	120.8	142.2	148.2	135.2	135.7	126.7
75°	537.4	174.3	80.8	77.2	87.8	100.6	124.0	135.2	122.4	113.1	110.1
77.5°	181.4	98.7	68.3	62.3	68.3	80.8	102.8	118.0	108.0	95.7	93.8
80°	93.8	71.8	53.3	50.0	53.9	62.6	80.5	98.2	92.2	92.7	76.4
82.5°	58.5	43.8	38.3	38.1	40.8	47.9	59.3	79.7	79.1	67.7	49.2
85°	27.2	25.3	24.5	25.3	26.1	27.2	38.6	56.8	60.1	36.4	32.4
87.5°	11.4	11.2	9.8	10.6	11.7	11.4	15.5	24.2	33.7	22.8	20.9
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)