

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: P198623

Luminaire Tested: **XNV2-AF-02-LED-U-T3R-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198623  
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: XNV2-AF-02-LED-U-T3R-7030  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10857 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Full Cutoff  
BUG Rating: B1 - U0 - G2

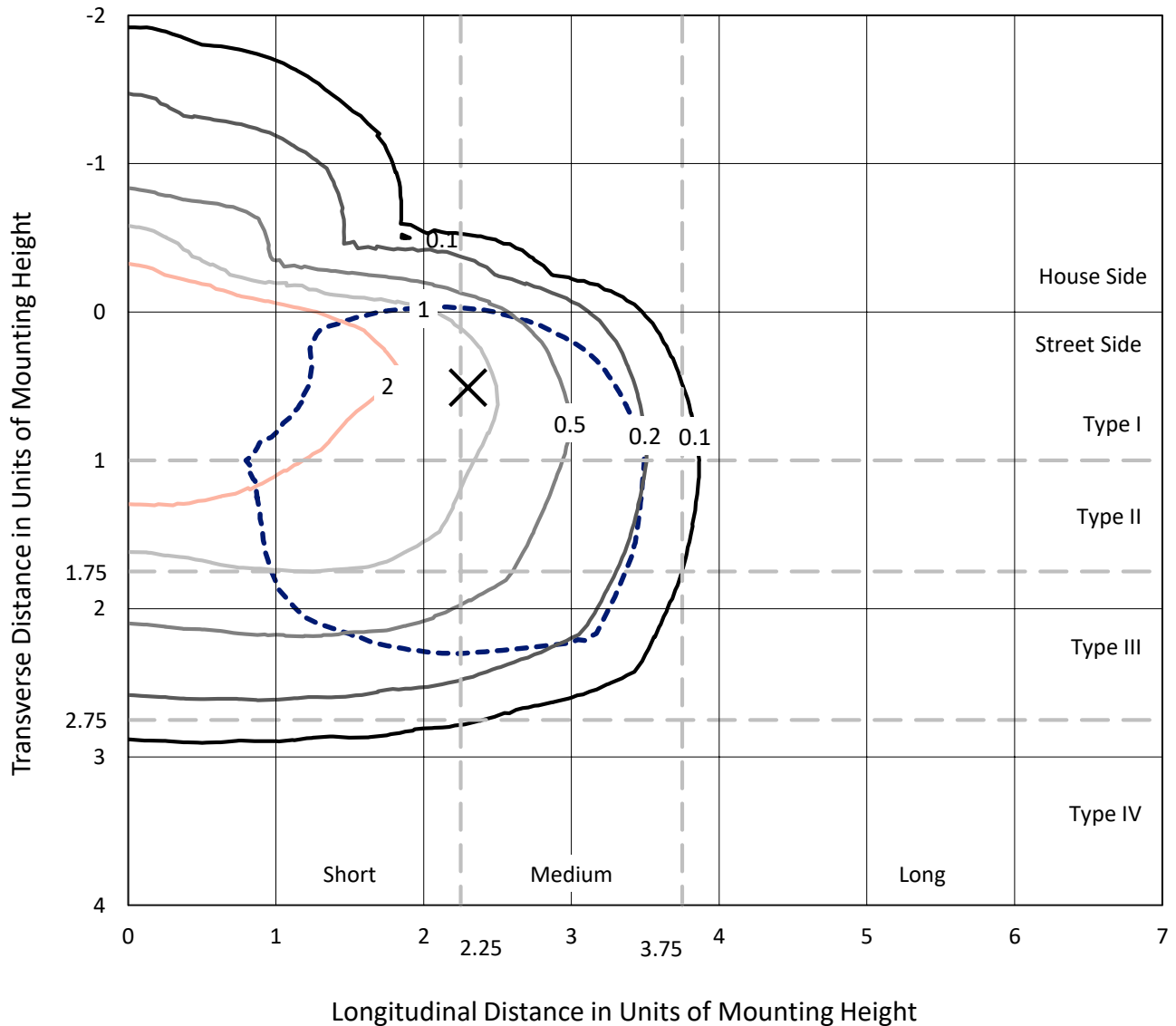
Input Watts (W): 111  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

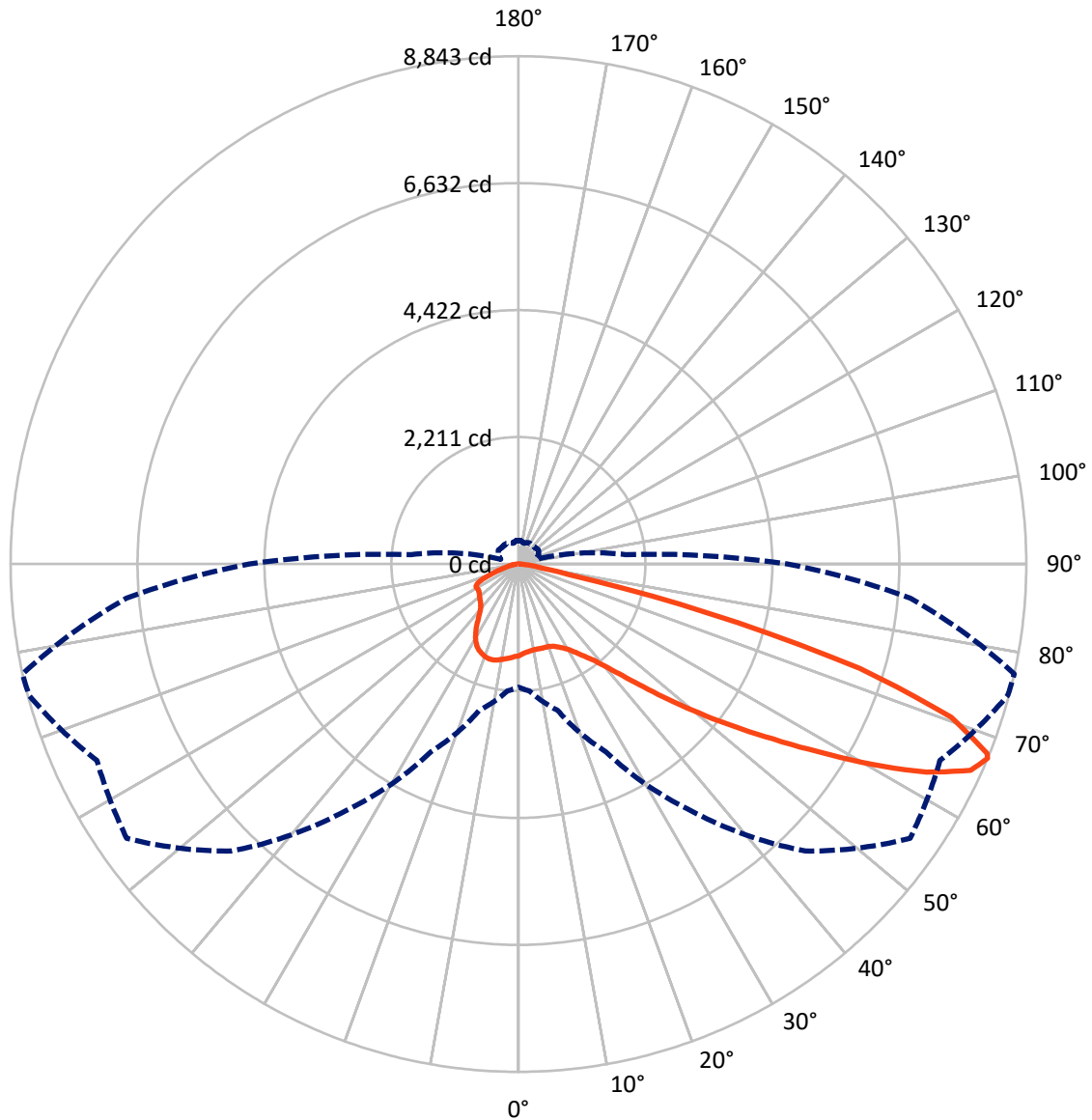
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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
<b>House Side</b>	Lumens	1865.8	0.0	1865.8
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	8991.2	0.0	8991.2
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	10857.0	0.0	10857.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.3	1.3
10°-20°	394.1	3.6
20°-30°	669.6	6.2
30°-40°	1071.3	9.9
40°-50°	1649.2	15.2
50°-60°	2288.1	21.1
60°-70°	3052.2	28.1
70°-80°	1452.5	13.4
80°-90°	137.5	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°	10857.0	100.0
0°-180°	10857.0	100.0



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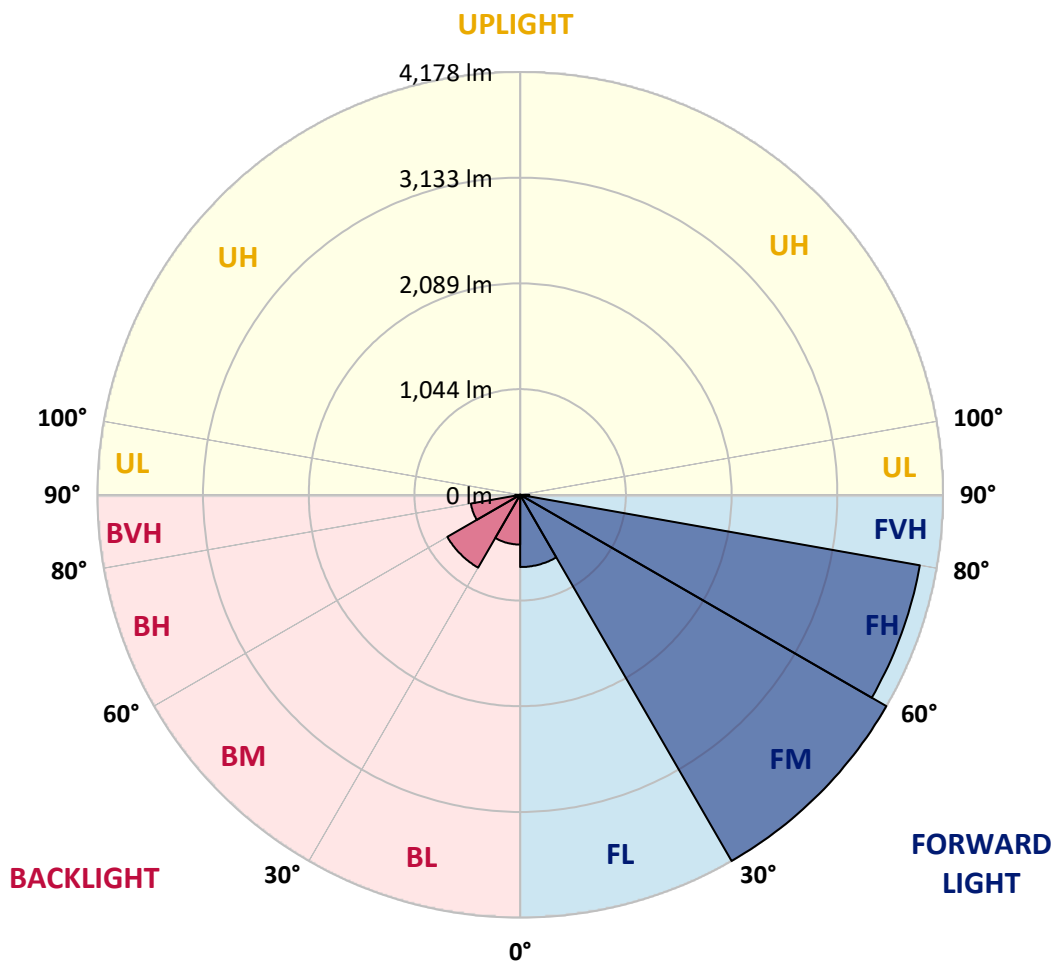
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	714.0	6.6			
FM	(30°-60°)	4177.9	38.5			
FH	(60°-80°)	4010.1	36.9			G2/5000
FVH	(80°-90°)	89.3	0.8			G1/100
BL	(0°-30°)	492.1	4.5	B1/500		
BM	(30°-60°)	830.7	7.7	B1/1000		
BH	(60°-80°)	494.7	4.6	B1/500		G1/500
BVH	(80°-90°)	48.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9
2.5°	1432.8	1439.5	1440.2	1459.6	1468.3	1490.5	1514.6	1536.1	1554.9	1561.6	1573.7
5°	1289.2	1289.2	1291.2	1303.9	1328.8	1364.3	1414.7	1469.7	1527.4	1541.5	1577.1
7.5°	1214.0	1215.3	1216.7	1229.4	1248.9	1280.4	1330.8	1405.9	1501.9	1525.4	1587.8
10°	1220.7	1218.7	1212.0	1209.3	1217.4	1237.5	1281.1	1358.3	1480.4	1516.7	1607.3
12.5°	1326.1	1322.0	1299.9	1267.7	1238.2	1230.8	1261.0	1334.1	1470.4	1516.7	1640.1
15°	1506.6	1509.3	1465.7	1398.6	1321.4	1269.0	1265.0	1325.4	1467.0	1520.7	1678.4
17.5°	1741.5	1742.8	1682.4	1585.1	1456.9	1348.9	1292.5	1325.4	1467.0	1524.7	1715.3
20°	1991.1	1981.7	1913.3	1791.1	1624.7	1459.6	1342.9	1333.5	1471.0	1530.8	1750.2
22.5°	2205.2	2196.5	2124.7	1996.5	1805.9	1590.5	1410.6	1360.3	1493.2	1555.6	1799.2
25°	2392.4	2397.8	2328.0	2183.7	1986.4	1738.1	1512.0	1422.0	1539.5	1600.5	1859.6
27.5°	2619.9	2609.9	2529.3	2391.8	2172.3	1891.1	1638.8	1499.9	1594.5	1654.9	1933.4
30°	2883.0	2878.3	2769.6	2628.0	2377.0	2062.3	1764.3	1583.8	1666.3	1729.4	2026.0
32.5°	3202.4	3201.8	3085.0	2911.2	2607.2	2255.5	1912.6	1698.5	1771.0	1834.8	2148.8
35°	3564.2	3563.5	3442.7	3213.2	2872.3	2469.6	2087.1	1838.1	1900.5	1967.6	2295.1
37.5°	3815.1	3811.1	3748.0	3525.2	3165.5	2718.6	2305.2	2026.0	2047.5	2122.7	2471.6
40°	3863.5	3887.6	3942.0	3810.4	3485.6	2995.1	2524.0	2228.0	2248.2	2344.8	2693.8
42.5°	3811.1	3842.7	4023.2	4060.1	3805.8	3329.9	2797.8	2507.9	2533.4	2653.5	2954.8
45°	3765.5	3793.0	4019.2	4198.3	4121.8	3695.0	3139.4	2849.4	2897.8	3046.7	3252.8
47.5°	3687.6	3713.1	3940.0	4223.2	4302.4	4046.7	3550.7	3260.2	3343.4	3523.9	3592.3
50°	3683.6	3695.0	3831.9	4140.0	4364.8	4313.8	4006.4	3740.7	3868.2	4076.2	3968.2
52.5°	3581.6	3661.5	3785.6	4007.1	4366.1	4469.5	4455.4	4267.5	4464.1	4694.3	4380.2
55°	2957.5	3049.4	3631.3	3942.0	4358.1	4603.0	4865.4	4827.8	5135.2	5377.4	4841.9
57.5°	2761.5	2800.5	3185.7	3961.4	4425.2	4823.8	5275.4	5429.8	5902.9	6167.3	5395.6
60°	2707.8	2748.8	3096.4	3970.8	4607.0	5225.8	5831.8	6109.6	6805.5	7086.0	6024.4
62.5°	2648.1	2701.1	3103.1	3979.6	4926.5	5820.4	6570.0	6847.1	7732.3	7982.6	6613.6
65°	2473.6	2544.1	2979.0	3924.5	5276.1	6566.6	7545.7	7616.2	8498.0	8657.1	6969.3
67°	2142.8	2220.0	2638.1	3606.4	5243.9	7069.3	8326.2	8097.4	8823.5	8843.0	6853.8
67.5°	2038.1	2118.0	2522.6	3474.2	5152.0	7135.0	8464.5	8163.8	8820.8	8799.3	6746.5
70°	1372.4	1462.3	1786.4	2550.8	4132.6	6640.4	8430.9	7959.1	8242.3	7996.0	5796.2
72.5°	681.2	683.8	891.2	1397.2	2503.8	4762.7	7033.0	6808.9	6681.4	6216.3	4253.4
75°	328.2	334.2	420.8	617.4	1055.6	2458.9	4796.3	4594.3	3911.8	3387.0	2128.7
77.5°	250.3	256.4	326.8	402.0	440.2	802.0	2375.7	1920.0	1133.5	905.3	600.0
80°	193.3	204.7	275.8	308.7	291.3	321.5	746.9	587.9	440.9	404.7	297.3
82.5°	151.0	157.7	234.2	234.2	201.3	215.4	347.6	339.6	273.8	247.0	159.7
85°	106.7	120.1	188.6	174.5	132.2	133.5	208.0	199.3	140.9	113.4	62.4
87.5°	47.6	61.1	134.2	114.1	70.5	54.4	85.2	73.1	55.7	42.9	28.9
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°	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9
2.5°	1587.1	1597.9	1614.6	1624.7	1638.1	1643.5	1648.9	1658.3	1665.6	1663.6	1660.3
5°	1601.9	1620.0	1640.8	1647.5	1647.5	1640.8	1636.8	1637.5	1635.4	1634.1	1630.1
7.5°	1623.4	1648.2	1663.0	1656.2	1635.4	1609.3	1584.4	1569.7	1555.6	1546.9	1549.5
10°	1653.6	1681.1	1681.8	1652.2	1602.6	1545.5	1496.5	1465.0	1434.8	1421.4	1425.4
12.5°	1697.2	1724.7	1701.2	1637.5	1550.2	1461.0	1371.0	1305.9	1247.6	1233.5	1229.4
15°	1744.2	1765.6	1713.3	1605.9	1475.1	1328.1	1177.1	1079.8	1014.7	1003.3	999.3
17.5°	1785.1	1797.2	1707.3	1549.5	1356.3	1124.7	948.9	883.2	869.7	876.4	876.4
20°	1821.3	1817.3	1681.1	1462.3	1169.0	899.3	797.3	796.6	814.7	831.5	832.8
22.5°	1867.0	1835.4	1639.5	1332.8	945.6	750.3	732.8	750.3	770.4	789.2	791.2
25°	1921.3	1855.6	1583.8	1148.2	760.3	681.2	688.5	703.3	716.1	730.8	731.5
27.5°	1975.7	1871.0	1505.3	931.5	659.7	636.9	644.9	651.0	654.3	663.7	663.7
30°	2038.8	1883.1	1391.8	746.3	613.4	597.9	593.2	590.6	593.2	606.0	606.7
32.5°	2118.0	1904.6	1236.8	640.2	591.9	570.4	546.3	532.8	542.2	565.1	569.1
35°	2207.9	1930.1	1050.9	597.9	584.5	557.0	512.7	491.9	495.3	516.1	519.4
37.5°	2320.6	1962.9	867.7	587.9	591.9	555.7	497.3	467.7	453.0	453.7	453.0
40°	2464.9	1995.8	722.8	590.6	608.0	559.0	489.9	443.6	412.7	414.1	416.7
42.5°	2615.9	2017.3	630.8	598.6	627.5	563.7	487.2	420.1	393.3	416.1	436.9
45°	2792.4	2011.3	583.2	606.0	642.2	565.7	477.1	417.4	395.3	463.7	502.6
47.5°	2995.1	1985.1	556.3	609.3	646.3	565.1	469.8	426.1	412.0	530.8	575.1
50°	3215.2	1944.1	534.9	604.0	644.2	562.4	477.8	436.9	418.8	545.6	579.8
52.5°	3456.1	1906.6	512.7	591.9	634.2	554.3	487.9	432.2	400.0	502.6	528.8
55°	3741.3	1897.8	487.9	571.1	617.4	545.6	482.5	417.4	379.2	445.6	461.7
57.5°	4067.5	1952.2	455.7	545.6	594.6	528.1	469.8	409.4	371.8	405.3	414.1
60°	4481.5	2072.3	421.4	518.8	566.4	502.0	458.4	411.4	373.8	399.3	401.3
62.5°	4805.0	2180.4	390.6	485.9	528.8	470.4	446.3	413.4	379.8	407.4	404.0
65°	4922.4	2127.4	352.3	436.9	475.8	435.5	429.5	414.7	379.8	412.0	404.7
67°	4681.5	1874.4	316.1	387.9	425.5	404.7	413.4	409.4	373.1	411.4	398.6
67.5°	4566.8	1785.1	306.7	379.8	412.0	395.3	409.4	406.7	371.1	410.0	395.3
70°	3766.2	1280.4	259.0	318.8	344.9	348.3	384.5	389.2	355.0	385.2	358.4
72.5°	2679.7	801.3	223.5	247.0	278.5	298.0	351.0	365.7	333.5	334.9	312.7
75°	1326.1	430.2	199.3	190.6	216.8	248.3	306.0	333.5	302.0	279.2	271.8
77.5°	447.6	243.6	168.4	153.7	168.4	199.3	253.7	291.3	266.4	236.2	231.5
80°	231.5	177.2	131.5	123.5	132.9	154.4	198.6	242.3	227.5	228.8	188.6
82.5°	144.3	108.0	94.6	94.0	100.7	118.1	146.3	196.6	195.3	167.1	121.5
85°	67.1	62.4	60.4	62.4	64.4	67.1	95.3	140.3	148.3	89.9	79.9
87.5°	28.2	27.5	24.2	26.2	28.9	28.2	38.3	59.7	83.2	56.4	51.7
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)