

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: P199263

Luminaire Tested: **XNV2-AF-02-LED-U-T3R-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199263  
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-8030  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 80 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: 10008 lumens  
Efficiency: N/A  
Efficacy: 90.2 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

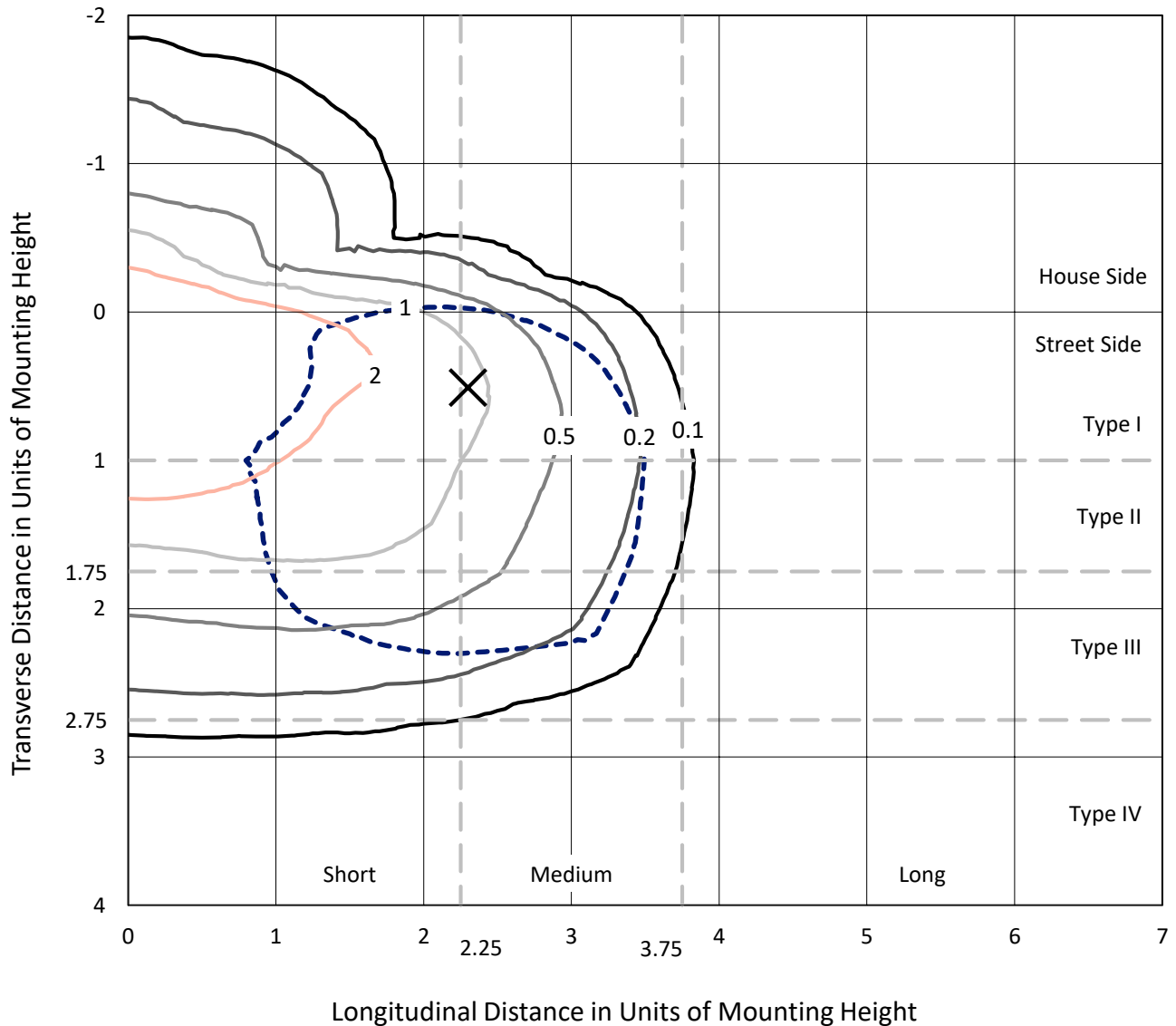
Input Watts (W): 111  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

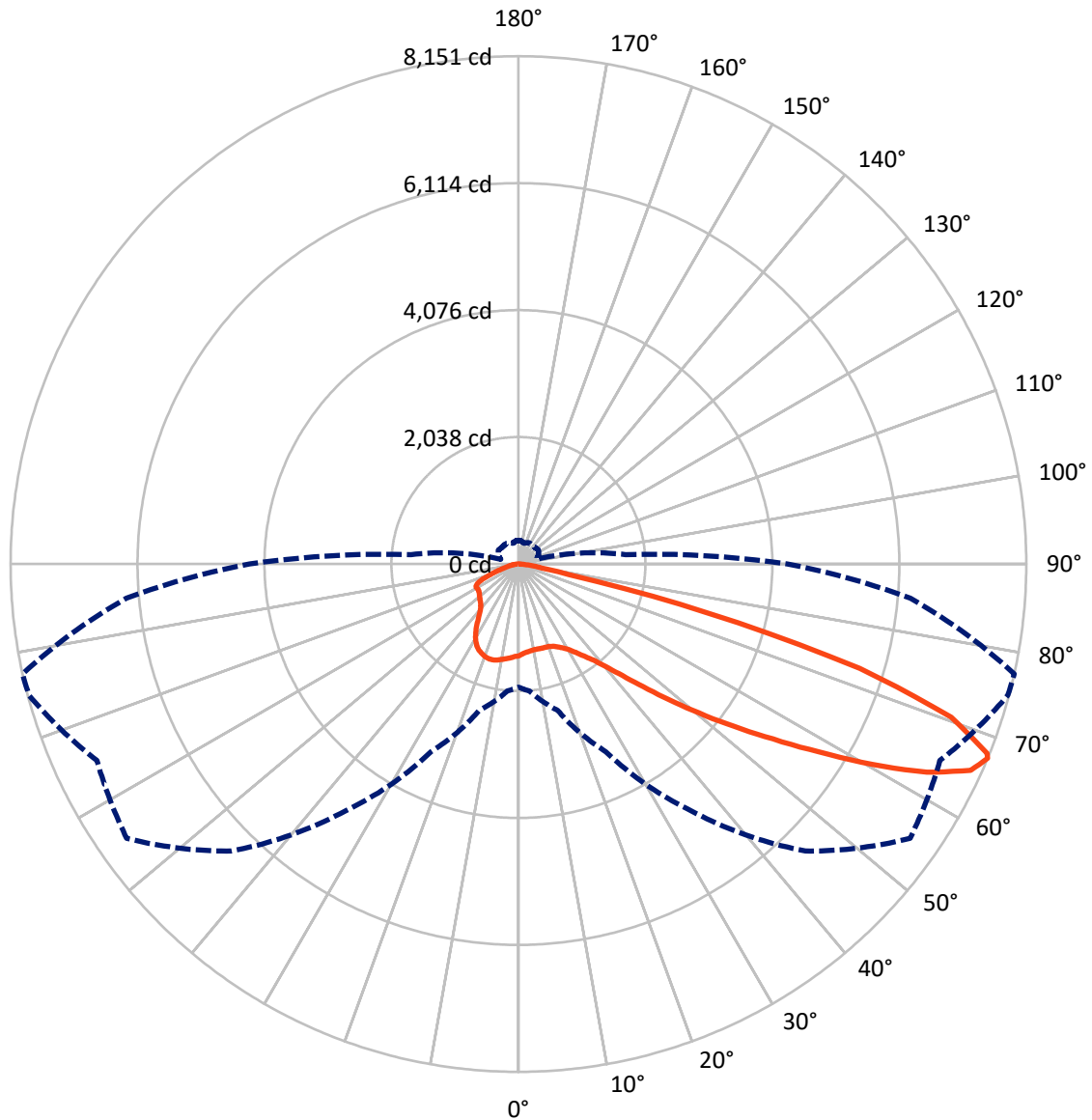
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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	1719.9	0.0	1719.9
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	8288.1	0.0	8288.1
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	10008.0	0.0	10008.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.2	1.3
10°-20°	363.3	3.6
20°-30°	617.3	6.2
30°-40°	987.5	9.9
40°-50°	1520.3	15.2
50°-60°	2109.2	21.1
60°-70°	2813.5	28.1
70°-80°	1339.0	13.4
80°-90°	126.8	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°	10008.0	100.0
0°-180°	10008.0	100.0



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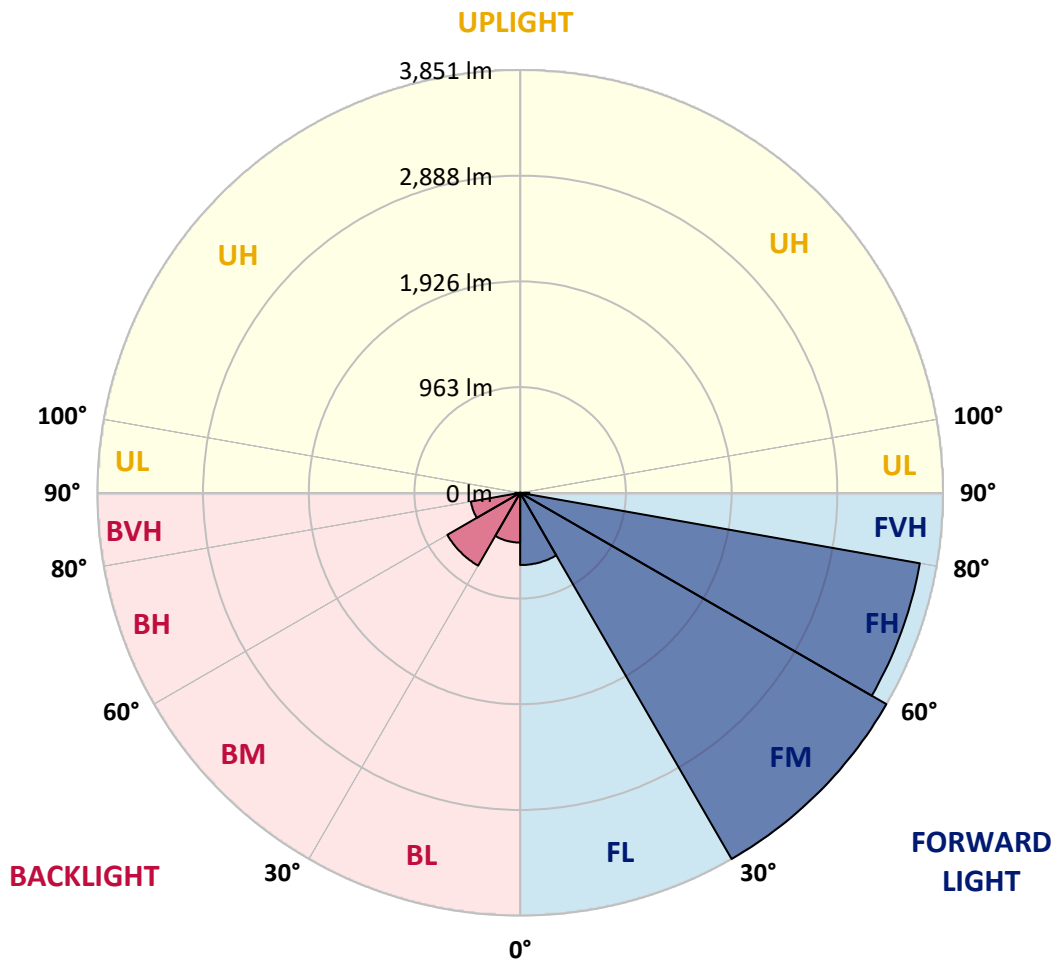
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	658.1	6.6			
FM	(30°-60°)	3851.2	38.5			
FH	(60°-80°)	3696.5	36.9			G2/5000
FVH	(80°-90°)	82.3	0.8			G1/100
BL	(0°-30°)	453.6	4.5	B1/500		
BM	(30°-60°)	765.8	7.7	B1/1000		
BH	(60°-80°)	456.0	4.6	B1/500		G1/500
BVH	(80°-90°)	44.4	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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9
2.5°	1320.7	1326.9	1327.5	1345.5	1353.5	1373.9	1396.2	1416.0	1433.3	1439.5	1450.6
5°	1188.4	1188.4	1190.2	1202.0	1224.9	1257.6	1304.0	1354.8	1408.0	1421.0	1453.7
7.5°	1119.1	1120.3	1121.5	1133.3	1151.2	1180.3	1226.7	1296.0	1384.5	1406.1	1463.6
10°	1125.3	1123.4	1117.2	1114.7	1122.2	1140.7	1180.9	1252.1	1364.7	1398.1	1481.6
12.5°	1222.4	1218.7	1198.3	1168.6	1141.3	1134.5	1162.4	1229.8	1355.4	1398.1	1511.9
15°	1388.8	1391.3	1351.0	1289.2	1218.0	1169.8	1166.1	1221.8	1352.3	1401.8	1547.1
17.5°	1605.3	1606.5	1550.9	1461.2	1343.0	1243.4	1191.4	1221.8	1352.3	1405.5	1581.2
20°	1835.4	1826.8	1763.7	1651.1	1497.7	1345.5	1237.8	1229.2	1356.0	1411.1	1613.3
22.5°	2032.8	2024.7	1958.5	1840.4	1664.7	1466.1	1300.3	1253.9	1376.4	1433.9	1658.5
25°	2205.4	2210.3	2146.0	2013.0	1831.1	1602.2	1393.7	1310.8	1419.1	1475.4	1714.2
27.5°	2415.1	2405.8	2331.5	2204.7	2002.4	1743.2	1510.6	1382.6	1469.8	1525.5	1782.2
30°	2657.6	2653.2	2553.0	2422.5	2191.1	1901.0	1626.3	1459.9	1536.0	1594.2	1867.6
32.5°	2952.0	2951.4	2843.8	2683.5	2403.3	2079.2	1763.0	1565.7	1632.5	1691.3	1980.8
35°	3285.4	3284.8	3173.5	2961.9	2647.7	2276.5	1923.9	1694.4	1751.9	1813.8	2115.7
37.5°	3516.8	3513.1	3454.9	3249.6	2918.0	2506.0	2124.9	1867.6	1887.4	1956.7	2278.3
40°	3561.3	3583.6	3633.7	3512.5	3213.1	2760.9	2326.6	2053.8	2072.3	2161.4	2483.1
42.5°	3513.1	3542.2	3708.6	3742.6	3508.1	3069.6	2579.0	2311.8	2335.3	2446.0	2723.7
45°	3471.0	3496.4	3704.9	3870.0	3799.5	3406.1	2893.9	2626.6	2671.2	2808.5	2998.4
47.5°	3399.3	3422.8	3631.9	3892.9	3965.9	3730.2	3273.1	3005.2	3081.9	3248.3	3311.4
50°	3395.6	3406.1	3532.3	3816.2	4023.5	3976.4	3693.1	3448.1	3565.7	3757.4	3657.9
52.5°	3301.5	3375.1	3489.6	3693.7	4024.7	4120.0	4107.0	3933.8	4115.0	4327.2	4037.7
55°	2726.2	2811.0	3347.3	3633.7	4017.3	4243.1	4484.9	4450.3	4733.6	4956.9	4463.3
57.5°	2545.6	2581.5	2936.6	3651.7	4079.1	4446.6	4862.9	5005.2	5441.3	5685.0	4973.6
60°	2496.1	2533.8	2854.3	3660.3	4246.8	4817.1	5375.7	5631.8	6273.3	6531.9	5553.3
62.5°	2441.0	2489.9	2860.5	3668.4	4541.2	5365.2	6056.2	6311.7	7127.6	7358.4	6096.4
65°	2280.2	2345.2	2746.0	3617.6	4863.5	6053.1	6955.7	7020.6	7833.5	7980.1	6424.3
67°	1975.2	2046.4	2431.8	3324.4	4833.8	6516.5	7675.1	7464.2	8133.5	8151.4	6317.9
67.5°	1878.7	1952.3	2325.4	3202.6	4749.1	6577.1	7802.6	7525.4	8131.0	8111.2	6218.9
70°	1265.1	1348.0	1646.7	2351.3	3809.4	6121.2	7771.6	7336.7	7597.8	7370.8	5342.9
72.5°	627.9	630.4	821.5	1287.9	2308.0	4390.3	6483.1	6276.4	6158.9	5730.2	3920.8
75°	302.5	308.1	387.9	569.1	973.1	2266.6	4421.2	4235.0	3605.9	3122.1	1962.2
77.5°	230.7	236.3	301.3	370.5	405.8	739.2	2189.9	1769.8	1044.8	834.5	553.0
80°	178.2	188.7	254.2	284.6	268.5	296.3	688.5	541.9	406.4	373.0	274.0
82.5°	139.2	145.4	215.9	215.9	185.6	198.6	320.4	313.0	252.4	227.6	147.2
85°	98.4	110.7	173.8	160.8	121.9	123.1	191.8	183.7	129.9	104.5	57.5
87.5°	43.9	56.3	123.7	105.2	65.0	50.1	78.6	67.4	51.3	39.6	26.6
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°	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9
2.5°	1463.0	1472.9	1488.4	1497.7	1510.0	1515.0	1519.9	1528.6	1535.4	1533.5	1530.4
5°	1476.6	1493.3	1512.5	1518.7	1518.7	1512.5	1508.8	1509.4	1507.6	1506.3	1502.6
7.5°	1496.4	1519.3	1532.9	1526.7	1507.6	1483.4	1460.5	1446.9	1433.9	1425.9	1428.4
10°	1524.3	1549.6	1550.2	1523.0	1477.2	1424.7	1379.5	1350.4	1322.6	1310.2	1313.9
12.5°	1564.5	1589.8	1568.2	1509.4	1429.0	1346.7	1263.8	1203.8	1150.0	1137.0	1133.3
15°	1607.8	1627.6	1579.3	1480.3	1359.7	1224.2	1085.0	995.3	935.3	924.8	921.1
17.5°	1645.5	1656.6	1573.7	1428.4	1250.2	1036.8	874.7	814.1	801.7	807.9	807.9
20°	1678.9	1675.2	1549.6	1348.0	1077.6	828.9	734.9	734.3	751.0	766.5	767.7
22.5°	1721.0	1691.9	1511.3	1228.6	871.6	691.6	675.5	691.6	710.2	727.5	729.3
25°	1771.1	1710.5	1459.9	1058.4	700.9	627.9	634.7	648.3	660.1	673.7	674.3
27.5°	1821.2	1724.7	1387.5	858.6	608.1	587.1	594.5	600.1	603.1	611.8	611.8
30°	1879.3	1735.8	1283.0	687.9	565.4	551.2	546.9	544.4	546.9	558.6	559.2
32.5°	1952.3	1755.6	1140.1	590.2	545.6	525.8	503.5	491.2	499.8	520.9	524.6
35°	2035.2	1779.1	968.7	551.2	538.8	513.4	472.6	453.4	456.5	475.7	478.8
37.5°	2139.2	1809.4	799.9	541.9	545.6	512.2	458.4	431.2	417.6	418.2	417.6
40°	2272.2	1839.8	666.2	544.4	560.5	515.3	451.6	408.9	380.4	381.7	384.2
42.5°	2411.3	1859.5	581.5	551.8	578.4	519.6	449.1	387.3	362.5	383.5	402.7
45°	2574.0	1854.0	537.6	558.6	592.0	521.5	439.8	384.8	364.4	427.5	463.3
47.5°	2760.9	1829.9	512.8	561.7	595.7	520.9	433.0	392.8	379.8	489.3	530.2
50°	2963.8	1792.1	493.0	556.8	593.9	518.4	440.5	402.7	386.0	502.9	534.5
52.5°	3185.9	1757.5	472.6	545.6	584.6	511.0	449.7	398.4	368.7	463.3	487.5
55°	3448.8	1749.4	449.7	526.4	569.1	502.9	444.8	384.8	349.5	410.8	425.6
57.5°	3749.4	1799.5	420.0	502.9	548.1	486.8	433.0	377.4	342.7	373.6	381.7
60°	4131.1	1910.3	388.5	478.2	522.1	462.7	422.5	379.2	344.6	368.1	369.9
62.5°	4429.3	2009.9	360.0	447.9	487.5	433.6	411.4	381.1	350.1	375.5	372.4
65°	4537.5	1961.0	324.8	402.7	438.6	401.5	395.9	382.3	350.1	379.8	373.0
67°	4315.4	1727.8	291.4	357.6	392.2	373.0	381.1	377.4	343.9	379.2	367.5
67.5°	4209.7	1645.5	282.7	350.1	379.8	364.4	377.4	374.9	342.1	378.0	364.4
70°	3471.6	1180.3	238.8	293.8	318.0	321.1	354.5	358.8	327.2	355.1	330.3
72.5°	2470.1	738.6	206.0	227.6	256.7	274.7	323.5	337.1	307.5	308.7	288.3
75°	1222.4	396.5	183.7	175.7	199.8	228.9	282.1	307.5	278.4	257.3	250.5
77.5°	412.6	224.6	155.3	141.7	155.3	183.7	233.8	268.5	245.6	217.8	213.4
80°	213.4	163.3	121.2	113.8	122.5	142.3	183.1	223.3	209.7	210.9	173.8
82.5°	133.0	99.6	87.2	86.6	92.8	108.9	134.9	181.3	180.0	154.0	112.0
85°	61.9	57.5	55.7	57.5	59.4	61.9	87.8	129.3	136.7	82.9	73.6
87.5°	26.0	25.4	22.3	24.1	26.6	26.0	35.3	55.1	76.7	52.0	47.6
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)