

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: P198939

Luminaire Tested: **XNV2-AF-02-LED-U-T3R-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198939  
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-7050-600  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8081 lumens  
Efficiency: N/A  
Efficacy: 122.4 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): 66  
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

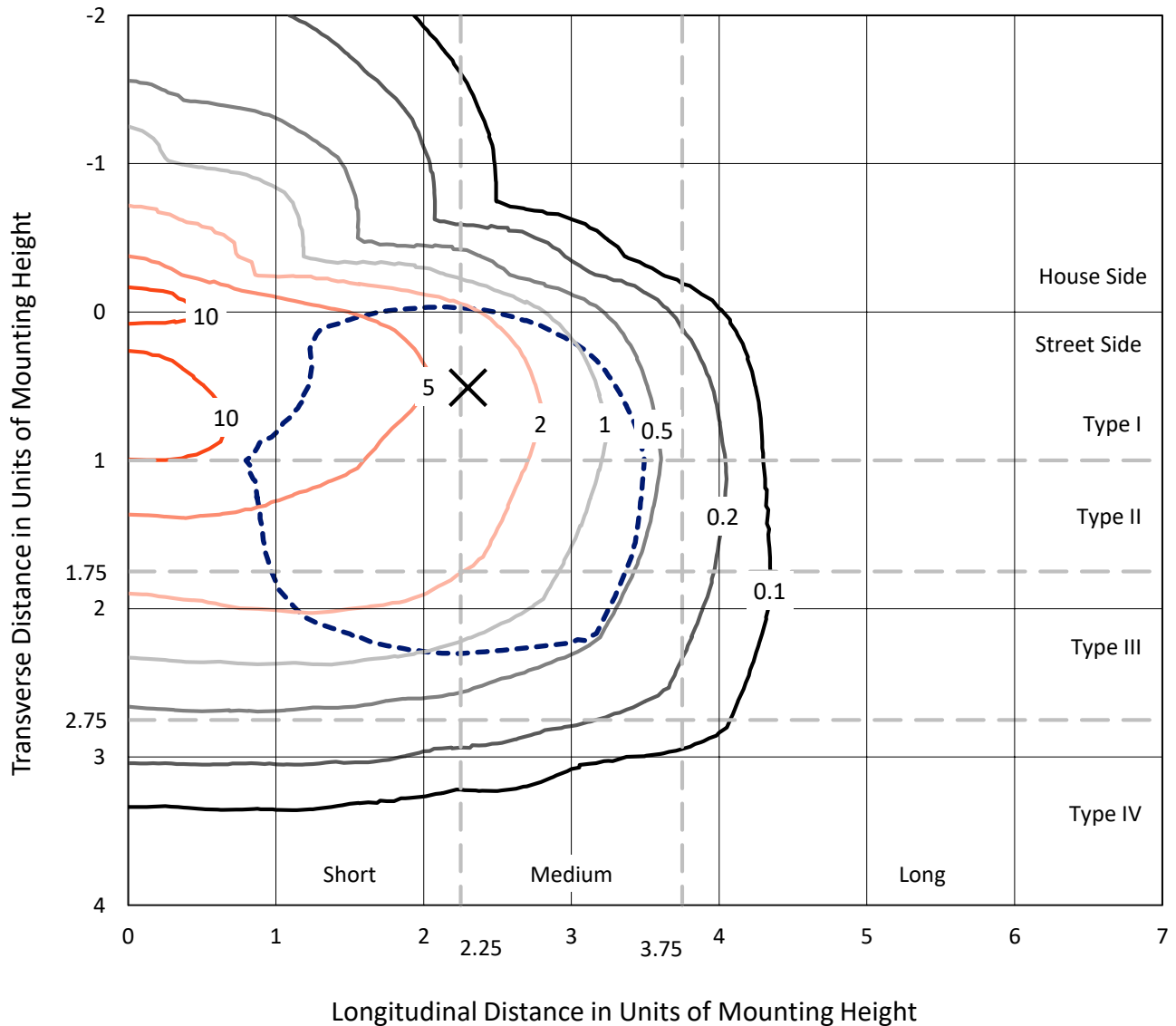


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

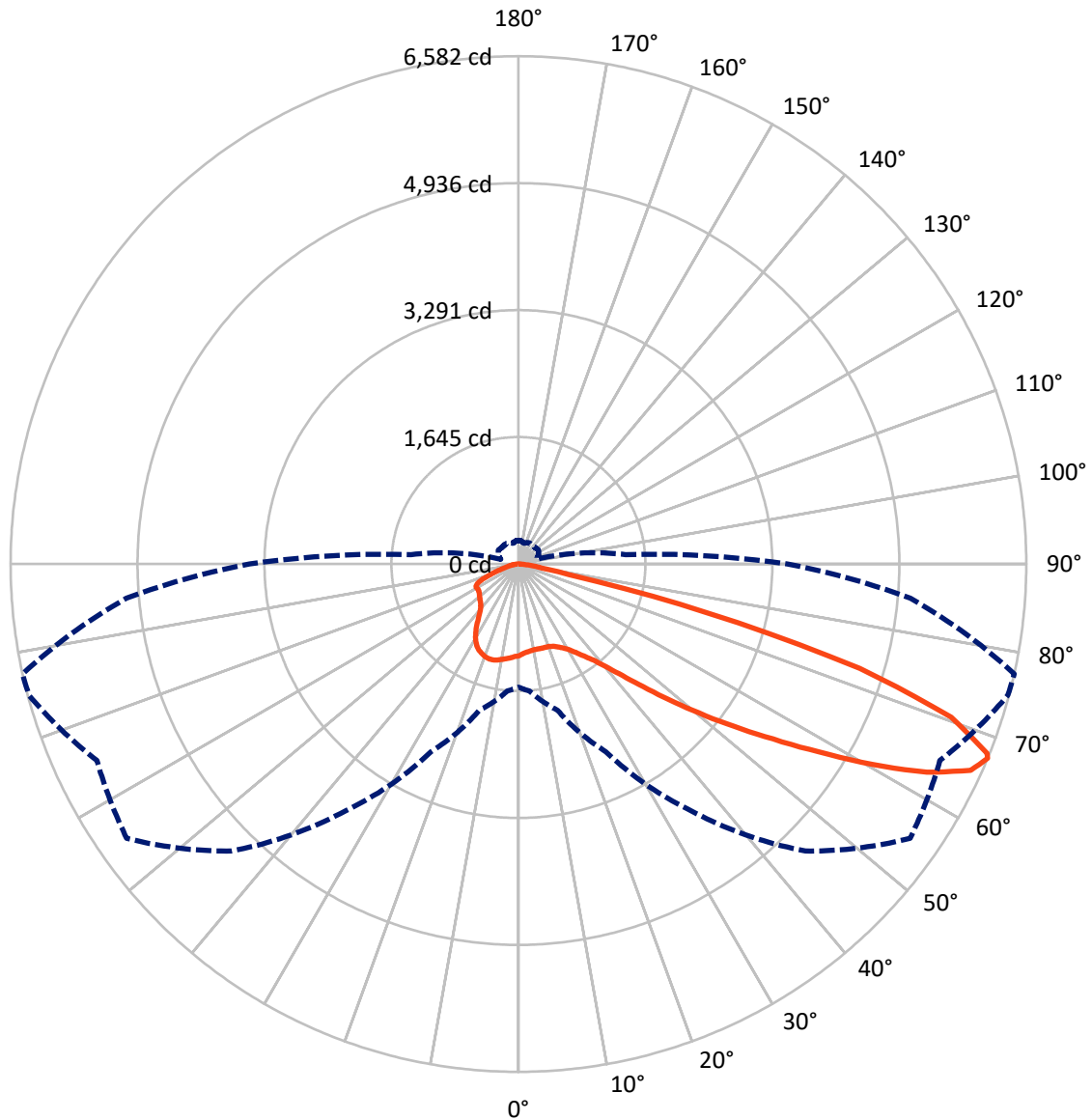


Based on 10 foot mounting height. Maximum calculated value = 14.3 fc  
 Type III - Medium - Full Cutoff

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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	1388.7	0.0	1388.7
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	6692.3	0.0	6692.3
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	8081.0	0.0	8081.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.9	1.3
10°-20°	293.3	3.6
20°-30°	498.4	6.2
30°-40°	797.4	9.9
40°-50°	1227.5	15.2
50°-60°	1703.1	21.1
60°-70°	2271.8	28.1
70°-80°	1081.2	13.4
80°-90°	102.4	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°	8081.0	100.0
0°-180°	8081.0	100.0

**Coefficient of Utilization**



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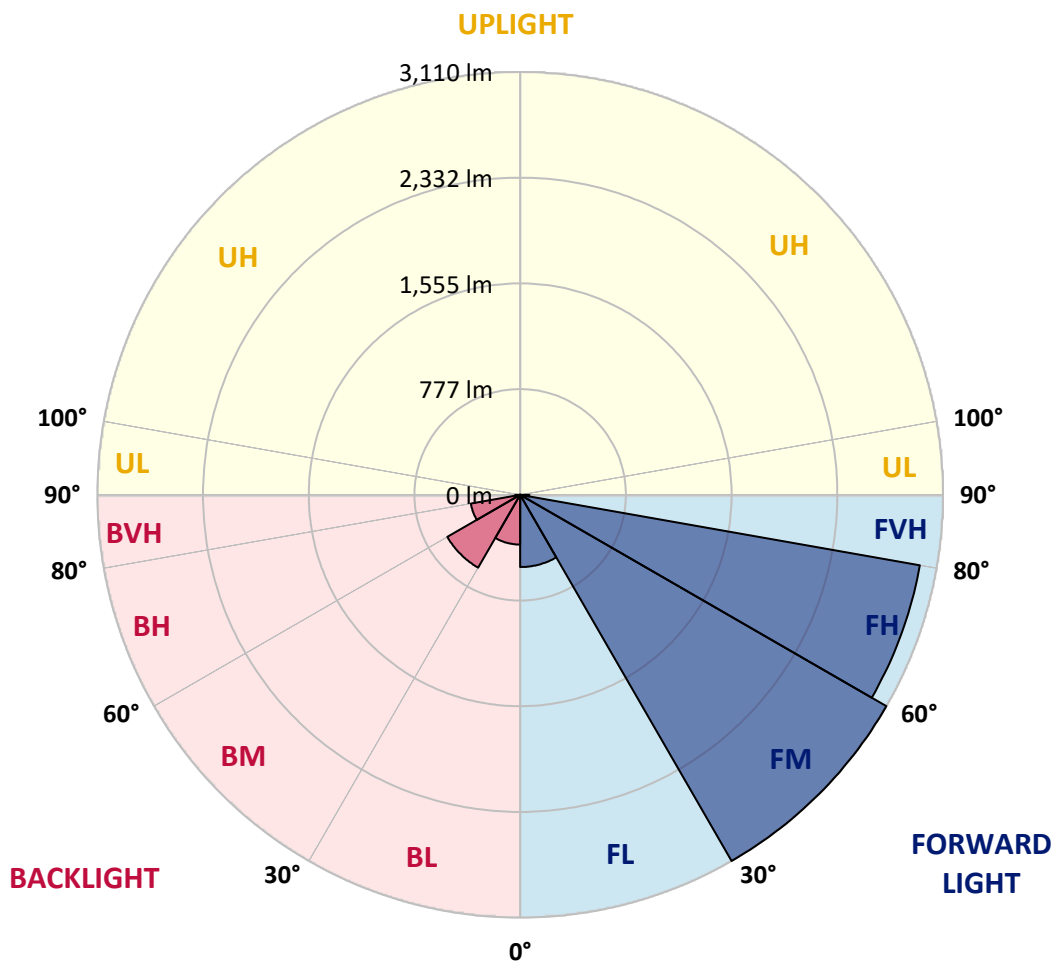
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	531.4	6.6			
FM	(30°-60°)	3109.7	38.5			
FH	(60°-80°)	2984.7	36.9			G2/5000
FVH	(80°-90°)	66.5	0.8			G1/100
BL	(0°-30°)	366.3	4.5	B1/500		
BM	(30°-60°)	618.3	7.7	B1/1000		
BH	(60°-80°)	368.2	4.6	B1/500		G1/500
BVH	(80°-90°)	35.9	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°	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3
2.5°	1066.4	1071.4	1071.9	1086.4	1092.9	1109.4	1127.4	1143.4	1157.3	1162.3	1171.3
5°	959.5	959.5	961.0	970.5	989.0	1015.5	1052.9	1093.9	1136.9	1147.4	1173.8
7.5°	903.6	904.6	905.6	915.1	929.6	953.0	990.5	1046.5	1117.9	1135.4	1181.8
10°	908.6	907.1	902.1	900.1	906.1	921.1	953.5	1011.0	1101.9	1128.9	1196.3
12.5°	987.0	984.0	967.5	943.6	921.6	916.1	938.6	993.0	1094.4	1128.9	1220.8
15°	1121.4	1123.4	1090.9	1041.0	983.5	944.6	941.6	986.5	1091.9	1131.9	1249.3
17.5°	1296.2	1297.2	1252.2	1179.8	1084.4	1004.0	962.0	986.5	1091.9	1134.9	1276.7
20°	1482.0	1475.0	1424.1	1333.2	1209.3	1086.4	999.5	992.5	1094.9	1139.4	1302.7
22.5°	1641.4	1634.9	1581.4	1486.0	1344.2	1183.8	1050.0	1012.5	1111.4	1157.8	1339.2
25°	1780.7	1784.7	1732.8	1625.4	1478.5	1293.7	1125.4	1058.4	1145.9	1191.3	1384.1
27.5°	1950.1	1942.6	1882.6	1780.2	1616.9	1407.6	1219.8	1116.4	1186.8	1231.8	1439.1
30°	2145.9	2142.4	2061.4	1956.0	1769.2	1535.0	1313.2	1178.8	1240.3	1287.2	1508.0
32.5°	2383.6	2383.1	2296.2	2166.8	1940.6	1678.8	1423.6	1264.2	1318.2	1365.6	1599.4
35°	2652.8	2652.3	2562.4	2391.6	2137.9	1838.2	1553.4	1368.1	1414.6	1464.5	1708.3
37.5°	2839.7	2836.7	2789.7	2623.9	2356.1	2023.5	1715.8	1508.0	1524.0	1579.9	1839.7
40°	2875.6	2893.6	2934.1	2836.2	2594.4	2229.3	1878.6	1658.3	1673.3	1745.3	2005.0
42.5°	2836.7	2860.1	2994.5	3022.0	2832.7	2478.5	2082.4	1866.6	1885.6	1975.0	2199.3
45°	2802.7	2823.2	2991.5	3124.9	3067.9	2750.3	2336.7	2120.9	2156.8	2267.7	2421.1
47.5°	2744.8	2763.7	2932.6	3143.4	3202.3	3012.0	2642.9	2426.6	2488.5	2622.9	2673.8
50°	2741.8	2750.3	2852.1	3081.4	3248.8	3210.8	2982.0	2784.2	2879.1	3034.0	2953.5
52.5°	2665.8	2725.3	2817.7	2982.5	3249.8	3326.7	3316.2	3176.3	3322.7	3494.0	3260.2
55°	2201.3	2269.7	2702.8	2934.1	3243.8	3426.1	3621.4	3593.4	3822.2	4002.5	3603.9
57.5°	2055.4	2084.4	2371.1	2948.6	3293.7	3590.4	3926.6	4041.5	4393.6	4590.4	4016.0
60°	2015.5	2046.0	2304.7	2955.5	3429.1	3889.6	4340.7	4547.5	5065.4	5274.2	4484.0
62.5°	1971.0	2010.5	2309.7	2962.0	3666.8	4332.2	4890.1	5096.4	5755.2	5941.6	4922.6
65°	1841.2	1893.6	2217.3	2921.1	3927.1	4887.6	5616.4	5668.8	6325.2	6443.6	5187.3
67°	1594.9	1652.3	1963.5	2684.3	3903.1	5261.7	6197.3	6027.0	6567.4	6581.9	5101.4
67.5°	1517.0	1576.4	1877.6	2585.9	3834.7	5310.7	6300.2	6076.4	6565.4	6549.5	5021.5
70°	1021.5	1088.4	1329.7	1898.6	3075.9	4942.6	6275.2	5924.1	6134.9	5951.5	4314.2
72.5°	507.0	509.0	663.3	1040.0	1863.6	3545.0	5234.8	5067.9	4973.0	4626.9	3165.8
75°	244.3	248.8	313.2	459.5	785.7	1830.2	3569.9	3419.6	2911.6	2521.0	1584.4
77.5°	186.3	190.8	243.3	299.2	327.7	596.9	1768.2	1429.1	843.7	673.8	446.6
80°	143.9	152.3	205.3	229.8	216.8	239.3	555.9	437.6	328.2	301.2	221.3
82.5°	112.4	117.4	174.3	174.3	149.9	160.3	258.7	252.7	203.8	183.8	118.9
85°	79.4	89.4	140.4	129.9	98.4	99.4	154.8	148.4	104.9	84.4	46.5
87.5°	35.5	45.5	99.9	84.9	52.4	40.5	63.4	54.4	41.5	32.0	21.5
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°	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3
2.5°	1181.3	1189.3	1201.8	1209.3	1219.3	1223.3	1227.3	1234.3	1239.8	1238.3	1235.8
5°	1192.3	1205.8	1221.3	1226.3	1226.3	1221.3	1218.3	1218.8	1217.3	1216.3	1213.3
7.5°	1208.3	1226.8	1237.8	1232.8	1217.3	1197.8	1179.3	1168.3	1157.8	1151.3	1153.3
10°	1230.8	1251.2	1251.7	1229.8	1192.8	1150.3	1113.9	1090.4	1067.9	1057.9	1060.9
12.5°	1263.2	1283.7	1266.2	1218.8	1153.8	1087.4	1020.5	972.0	928.6	918.1	915.1
15°	1298.2	1314.2	1275.2	1195.3	1097.9	988.5	876.1	803.7	755.2	746.8	743.8
17.5°	1328.7	1337.7	1270.7	1153.3	1009.5	837.2	706.3	657.3	647.4	652.3	652.3
20°	1355.6	1352.6	1251.2	1088.4	870.1	669.3	593.4	592.9	606.4	618.9	619.9
22.5°	1389.6	1366.1	1220.3	992.0	703.8	558.4	545.5	558.4	573.4	587.4	588.9
25°	1430.1	1381.1	1178.8	854.6	565.9	507.0	512.5	523.5	533.0	544.0	544.5
27.5°	1470.5	1392.6	1120.4	693.3	491.0	474.0	480.0	484.5	487.0	494.0	494.0
30°	1517.5	1401.6	1036.0	555.4	456.5	445.1	441.6	439.6	441.6	451.0	451.5
32.5°	1576.4	1417.6	920.6	476.5	440.6	424.6	406.6	396.6	403.6	420.6	423.6
35°	1643.4	1436.6	782.2	445.1	435.1	414.6	381.6	366.1	368.6	384.1	386.6
37.5°	1727.3	1461.0	645.9	437.6	440.6	413.6	370.1	348.2	337.2	337.7	337.2
40°	1834.7	1485.5	538.0	439.6	452.5	416.1	364.6	330.2	307.2	308.2	310.2
42.5°	1947.1	1501.5	469.5	445.6	467.0	419.6	362.6	312.7	292.7	309.7	325.2
45°	2078.4	1497.0	434.1	451.0	478.0	421.1	355.1	310.7	294.2	345.2	374.1
47.5°	2229.3	1477.5	414.1	453.5	481.0	420.6	349.7	317.2	306.7	395.1	428.1
50°	2393.1	1447.1	398.1	449.6	479.5	418.6	355.6	325.2	311.7	406.1	431.6
52.5°	2572.4	1419.1	381.6	440.6	472.0	412.6	363.1	321.7	297.7	374.1	393.6
55°	2784.7	1412.6	363.1	425.1	459.5	406.1	359.1	310.7	282.2	331.7	343.7
57.5°	3027.5	1453.0	339.2	406.1	442.6	393.1	349.7	304.7	276.7	301.7	308.2
60°	3335.7	1542.5	313.7	386.1	421.6	373.6	341.2	306.2	278.2	297.2	298.7
62.5°	3576.4	1622.9	290.7	361.6	393.6	350.1	332.2	307.7	282.7	303.2	300.7
65°	3663.8	1583.4	262.2	325.2	354.1	324.2	319.7	308.7	282.7	306.7	301.2
67°	3484.5	1395.1	235.3	288.7	316.7	301.2	307.7	304.7	277.7	306.2	296.7
67.5°	3399.1	1328.7	228.3	282.7	306.7	294.2	304.7	302.7	276.2	305.2	294.2
70°	2803.2	953.0	192.8	237.3	256.7	259.2	286.2	289.7	264.2	286.7	266.7
72.5°	1994.5	596.4	166.3	183.8	207.3	221.8	261.2	272.2	248.3	249.3	232.8
75°	987.0	320.2	148.4	141.9	161.3	184.8	227.8	248.3	224.8	207.8	202.3
77.5°	333.2	181.3	125.4	114.4	125.4	148.4	188.8	216.8	198.3	175.8	172.3
80°	172.3	131.9	97.9	91.9	98.9	114.9	147.9	180.3	169.3	170.3	140.4
82.5°	107.4	80.4	70.4	69.9	74.9	87.9	108.9	146.4	145.4	124.4	90.4
85°	50.0	46.5	45.0	46.5	48.0	50.0	70.9	104.4	110.4	66.9	59.4
87.5°	21.0	20.5	18.0	19.5	21.5	21.0	28.5	44.5	61.9	42.0	38.5
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)