

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: P199261

Luminaire Tested: **XNV2-AF-02-LED-U-T3R-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199261  
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-8030-800  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8086 lumens  
Efficiency: N/A  
Efficacy: 95.1 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): 85  
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

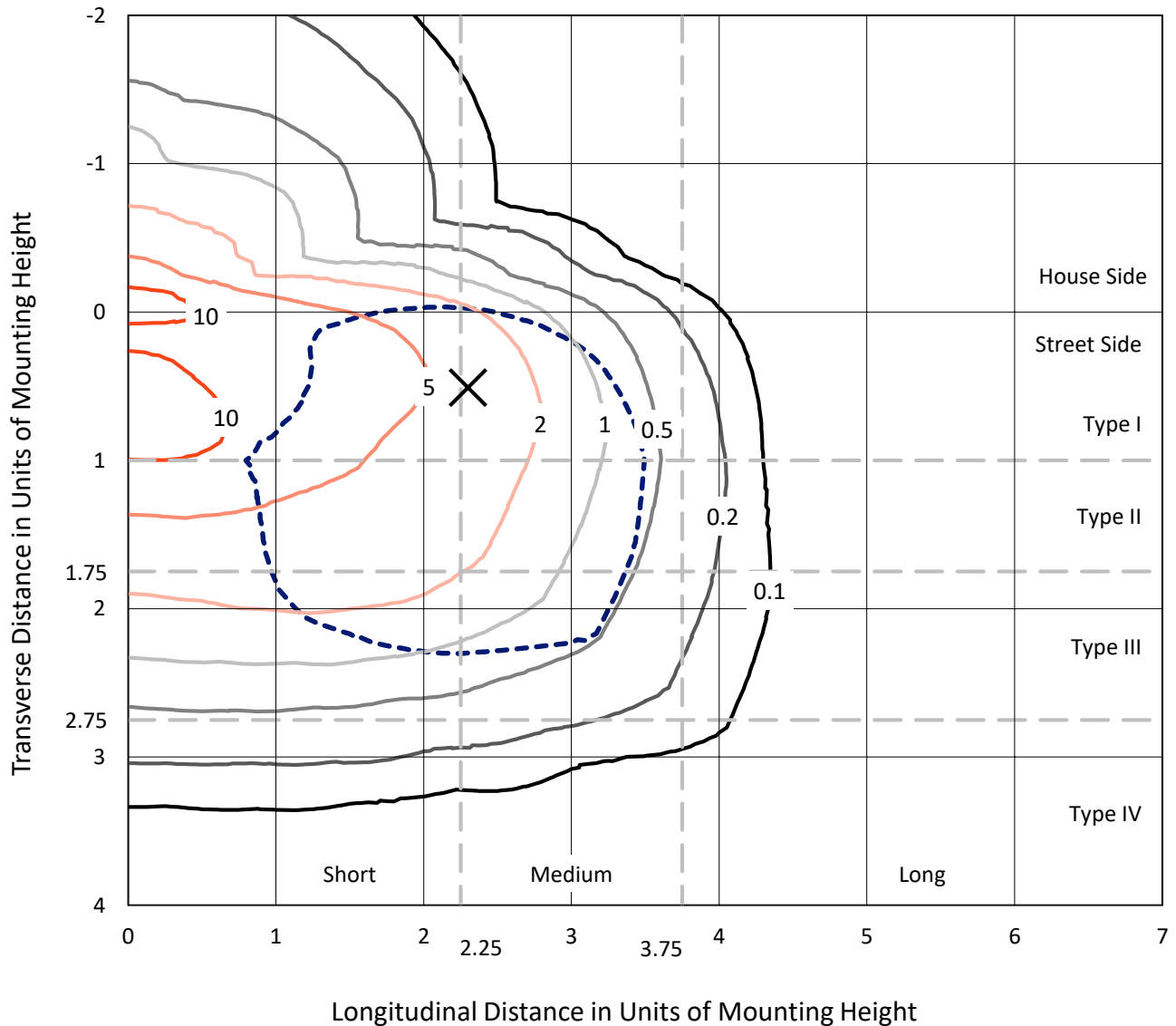


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

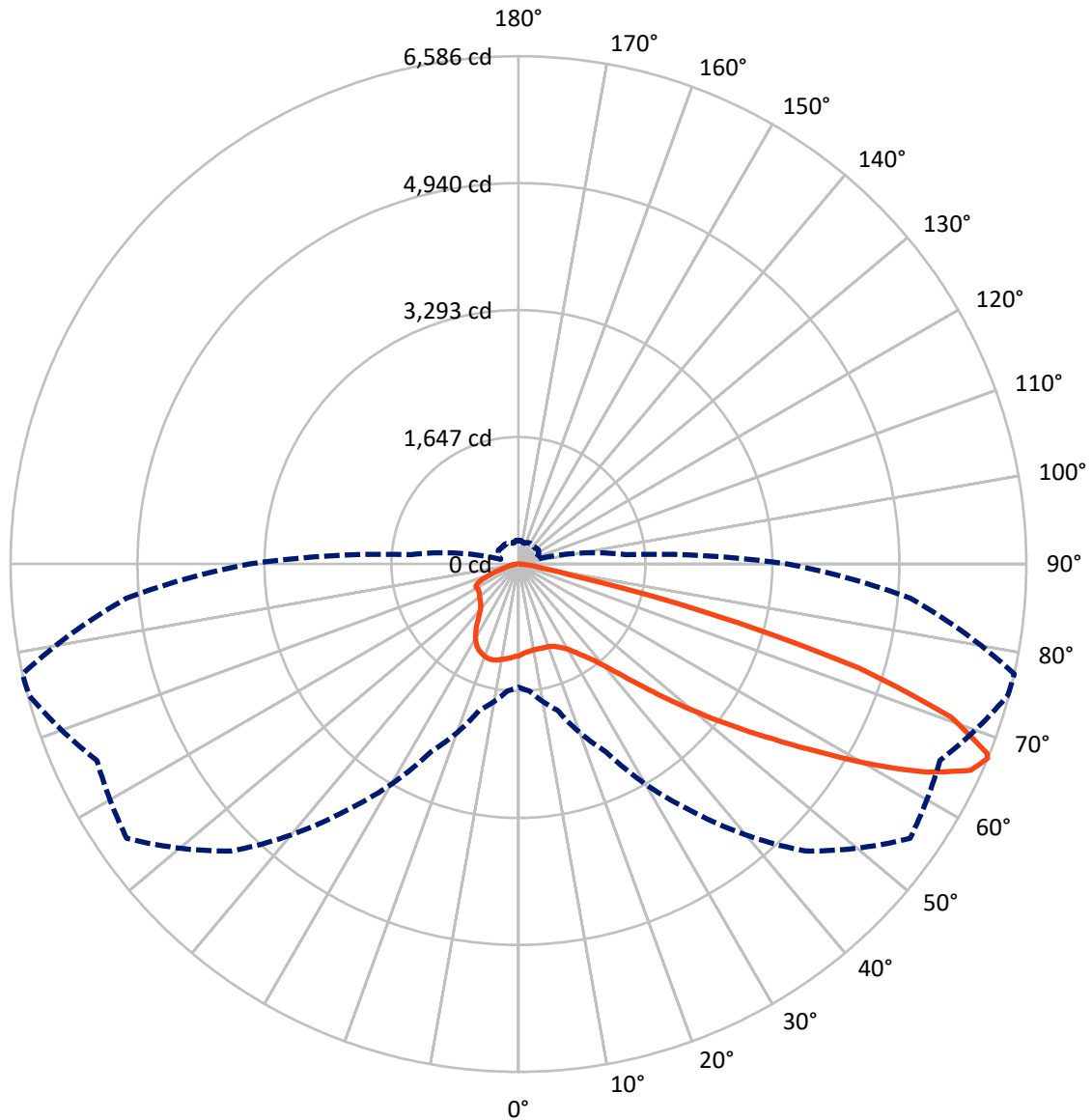


Based on 10 foot mounting height. Maximum calculated value = 14.3 fc  
 Type III - Medium - Full Cutoff

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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	1389.6	0.0	1389.6
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	6696.4	0.0	6696.4
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	8086.0	0.0	8086.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.0	1.3
10°-20°	293.5	3.6
20°-30°	498.7	6.2
30°-40°	797.9	9.9
40°-50°	1228.3	15.2
50°-60°	1704.1	21.1
60°-70°	2273.2	28.1
70°-80°	1081.8	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°	8086.0	100.0
0°-180°	8086.0	100.0

**Coefficient of Utilization**



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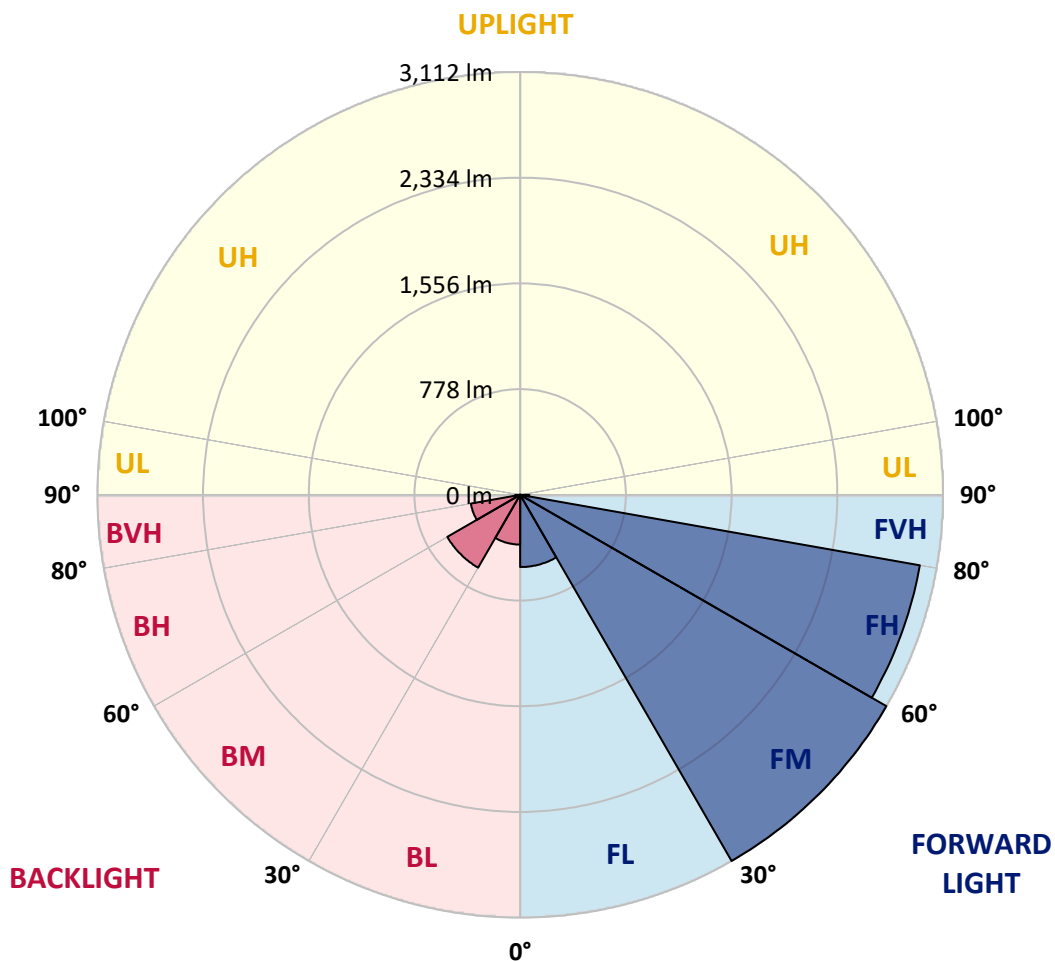
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	531.7	6.6			
FM	(30°-60°)	3111.6	38.5			
FH	(60°-80°)	2986.6	36.9			G2/5000
FVH	(80°-90°)	66.5	0.8			G1/100
BL	(0°-30°)	366.5	4.5	B1/500		
BM	(30°-60°)	618.7	7.7	B1/1000		
BH	(60°-80°)	368.4	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°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0
2.5°	1067.1	1072.1	1072.6	1087.1	1093.6	1110.1	1128.1	1144.1	1158.1	1163.1	1172.1
5°	960.1	960.1	961.6	971.1	989.6	1016.1	1053.6	1094.6	1137.6	1148.1	1174.6
7.5°	904.2	905.2	906.2	915.7	930.1	953.6	991.1	1047.1	1118.6	1136.1	1182.5
10°	909.2	907.7	902.7	900.7	906.7	921.6	954.1	1011.6	1102.6	1129.6	1197.0
12.5°	987.6	984.6	968.1	944.1	922.1	916.7	939.1	993.6	1095.1	1129.6	1221.5
15°	1122.1	1124.1	1091.6	1041.6	984.1	945.1	942.1	987.1	1092.6	1132.6	1250.0
17.5°	1297.0	1298.0	1253.0	1180.6	1085.1	1004.6	962.6	987.1	1092.6	1135.6	1277.5
20°	1482.9	1475.9	1425.0	1334.0	1210.0	1087.1	1000.1	993.1	1095.6	1140.1	1303.5
22.5°	1642.4	1635.9	1582.4	1486.9	1345.0	1184.5	1050.6	1013.1	1112.1	1158.6	1340.0
25°	1781.8	1785.8	1733.8	1626.4	1479.4	1294.5	1126.1	1059.1	1146.6	1192.0	1385.0
27.5°	1951.3	1943.8	1883.8	1781.3	1617.9	1408.5	1220.5	1117.1	1187.5	1232.5	1440.0
30°	2147.2	2143.7	2062.7	1957.3	1770.3	1535.9	1314.0	1179.6	1241.0	1288.0	1508.9
32.5°	2385.1	2384.6	2297.6	2168.2	1941.8	1679.9	1424.5	1265.0	1319.0	1366.5	1600.4
35°	2654.5	2654.0	2564.0	2393.1	2139.2	1839.3	1554.4	1369.0	1415.5	1465.4	1709.3
37.5°	2841.4	2838.4	2791.4	2625.5	2357.6	2024.7	1716.8	1508.9	1524.9	1580.9	1840.8
40°	2877.4	2895.4	2935.9	2837.9	2596.0	2230.7	1879.8	1659.4	1674.4	1746.3	2006.2
42.5°	2838.4	2861.9	2996.4	3023.8	2834.4	2480.1	2083.7	1867.8	1886.8	1976.2	2200.7
45°	2804.4	2824.9	2993.4	3126.8	3069.8	2752.0	2338.1	2122.2	2158.2	2269.1	2422.6
47.5°	2746.5	2765.4	2934.4	3145.3	3204.3	3013.9	2644.5	2428.1	2490.1	2624.5	2675.5
50°	2743.5	2752.0	2853.9	3083.3	3250.8	3212.8	2983.9	2785.9	2880.9	3035.8	2955.4
52.5°	2667.5	2727.0	2819.4	2984.4	3251.8	3328.7	3318.2	3178.3	3324.7	3496.2	3262.3
55°	2202.7	2271.1	2704.5	2935.9	3245.8	3428.2	3623.6	3595.6	3824.5	4005.0	3606.1
57.5°	2056.7	2085.7	2372.6	2950.4	3295.7	3592.6	3929.0	4044.0	4396.3	4593.3	4018.5
60°	2016.7	2047.2	2306.1	2957.4	3431.2	3892.0	4343.3	4550.3	5068.6	5277.5	4486.8
62.5°	1972.2	2011.7	2311.1	2963.9	3669.1	4334.8	4893.1	5099.6	5758.8	5945.2	4925.6
65°	1842.3	1894.8	2218.7	2922.9	3929.5	4890.6	5619.9	5672.3	6329.1	6447.5	5190.5
67°	1595.9	1653.4	1964.8	2686.0	3905.5	5265.0	6201.1	6030.7	6571.5	6586.0	5104.6
67.5°	1517.9	1577.4	1878.8	2587.5	3837.0	5314.0	6304.1	6080.2	6569.5	6553.5	5024.6
70°	1022.1	1089.1	1330.5	1899.8	3077.8	4945.6	6279.1	5927.7	6138.7	5955.2	4316.9
72.5°	507.3	509.3	663.7	1040.6	1864.8	3547.1	5238.0	5071.1	4976.1	4629.7	3167.8
75°	244.4	248.9	313.4	459.8	786.2	1831.3	3572.1	3421.7	2913.4	2522.5	1585.4
77.5°	186.4	190.9	243.4	299.4	327.9	597.3	1769.3	1430.0	844.2	674.2	446.8
80°	143.9	152.4	205.4	229.9	216.9	239.4	556.3	437.8	328.4	301.4	221.4
82.5°	112.5	117.5	174.4	174.4	149.9	160.4	258.9	252.9	203.9	183.9	119.0
85°	79.5	89.5	140.4	130.0	98.5	99.5	154.9	148.4	105.0	84.5	46.5
87.5°	35.5	45.5	100.0	85.0	52.5	40.5	63.5	54.5	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°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0
2.5°	1182.0	1190.0	1202.5	1210.0	1220.0	1224.0	1228.0	1235.0	1240.5	1239.0	1236.5
5°	1193.0	1206.5	1222.0	1227.0	1227.0	1222.0	1219.0	1219.5	1218.0	1217.0	1214.0
7.5°	1209.0	1227.5	1238.5	1233.5	1218.0	1198.5	1180.1	1169.1	1158.6	1152.1	1154.1
10°	1231.5	1252.0	1252.5	1230.5	1193.5	1151.1	1114.6	1091.1	1068.6	1058.6	1061.6
12.5°	1264.0	1284.5	1267.0	1219.5	1154.6	1088.1	1021.1	972.6	929.1	918.7	915.7
15°	1299.0	1315.0	1276.0	1196.0	1098.6	989.1	876.7	804.2	755.7	747.2	744.2
17.5°	1329.5	1338.5	1271.5	1154.1	1010.1	837.7	706.7	657.7	647.8	652.8	652.8
20°	1356.5	1353.5	1252.0	1089.1	870.7	669.7	593.8	593.3	606.8	619.3	620.3
22.5°	1390.5	1367.0	1221.0	992.6	704.2	558.8	545.8	558.8	573.8	587.8	589.3
25°	1431.0	1382.0	1179.6	855.2	566.3	507.3	512.8	523.8	533.3	544.3	544.8
27.5°	1471.4	1393.5	1121.1	693.7	491.3	474.3	480.3	484.8	487.3	494.3	494.3
30°	1518.4	1402.5	1036.6	555.8	456.8	445.3	441.8	439.8	441.8	451.3	451.8
32.5°	1577.4	1418.5	921.1	476.8	440.8	424.8	406.8	396.8	403.8	420.8	423.8
35°	1644.4	1437.5	782.7	445.3	435.3	414.8	381.9	366.4	368.9	384.4	386.9
37.5°	1728.3	1461.9	646.3	437.8	440.8	413.8	370.4	348.4	337.4	337.9	337.4
40°	1835.8	1486.4	538.3	439.8	452.8	416.3	364.9	330.4	307.4	308.4	310.4
42.5°	1948.3	1502.4	469.8	445.8	467.3	419.8	362.9	312.9	292.9	309.9	325.4
45°	2079.7	1497.9	434.3	451.3	478.3	421.3	355.4	310.9	294.4	345.4	374.4
47.5°	2230.7	1478.4	414.3	453.8	481.3	420.8	349.9	317.4	306.9	395.3	428.3
50°	2394.6	1447.9	398.3	449.8	479.8	418.8	355.9	325.4	311.9	406.3	431.8
52.5°	2574.0	1420.0	381.9	440.8	472.3	412.8	363.4	321.9	297.9	374.4	393.8
55°	2786.4	1413.5	363.4	425.3	459.8	406.3	359.4	310.9	282.4	331.9	343.9
57.5°	3029.3	1453.9	339.4	406.3	442.8	393.4	349.9	304.9	276.9	301.9	308.4
60°	3337.7	1543.4	313.9	386.4	421.8	373.9	341.4	306.4	278.4	297.4	298.9
62.5°	3578.6	1623.9	290.9	361.9	393.8	350.4	332.4	307.9	282.9	303.4	300.9
65°	3666.1	1584.4	262.4	325.4	354.4	324.4	319.9	308.9	282.9	306.9	301.4
67°	3486.7	1396.0	235.4	288.9	316.9	301.4	307.9	304.9	277.9	306.4	296.9
67.5°	3401.2	1329.5	228.4	282.9	306.9	294.4	304.9	302.9	276.4	305.4	294.4
70°	2804.9	953.6	192.9	237.4	256.9	259.4	286.4	289.9	264.4	286.9	266.9
72.5°	1995.7	596.8	166.4	183.9	207.4	221.9	261.4	272.4	248.4	249.4	232.9
75°	987.6	320.4	148.4	141.9	161.4	184.9	227.9	248.4	224.9	207.9	202.4
77.5°	333.4	181.4	125.5	114.5	125.5	148.4	188.9	216.9	198.4	175.9	172.4
80°	172.4	131.9	98.0	92.0	99.0	115.0	147.9	180.4	169.4	170.4	140.4
82.5°	107.5	80.5	70.5	70.0	75.0	88.0	109.0	146.4	145.4	124.5	90.5
85°	50.0	46.5	45.0	46.5	48.0	50.0	71.0	104.5	110.5	67.0	59.5
87.5°	21.0	20.5	18.0	19.5	21.5	21.0	28.5	44.5	62.0	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)