

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: P199279

Luminaire Tested: **XNV2-AF-02-LED-U-T4W-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199279  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24127)  
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-T4W-8030  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9723 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

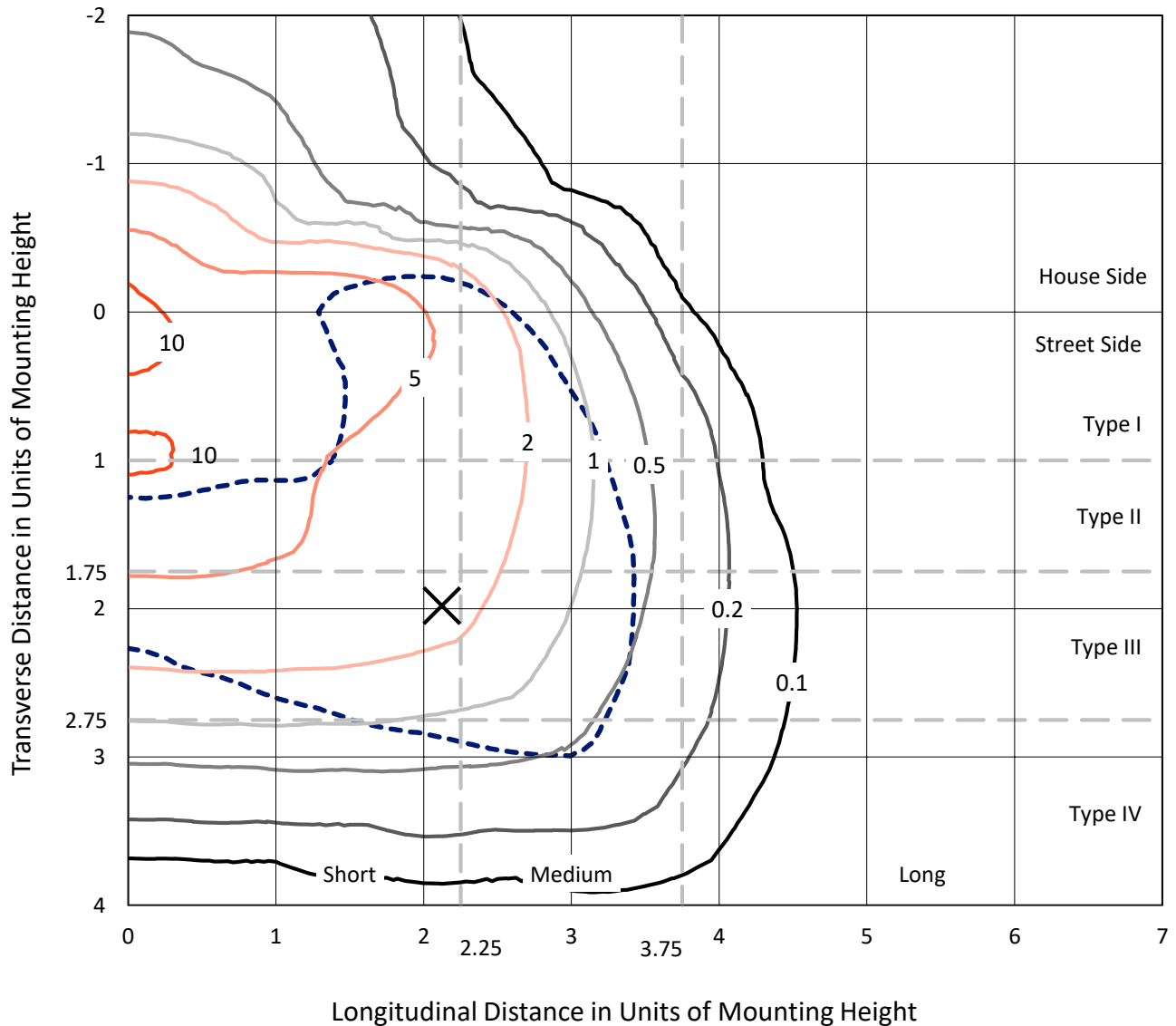
Input Watts (W): 111  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

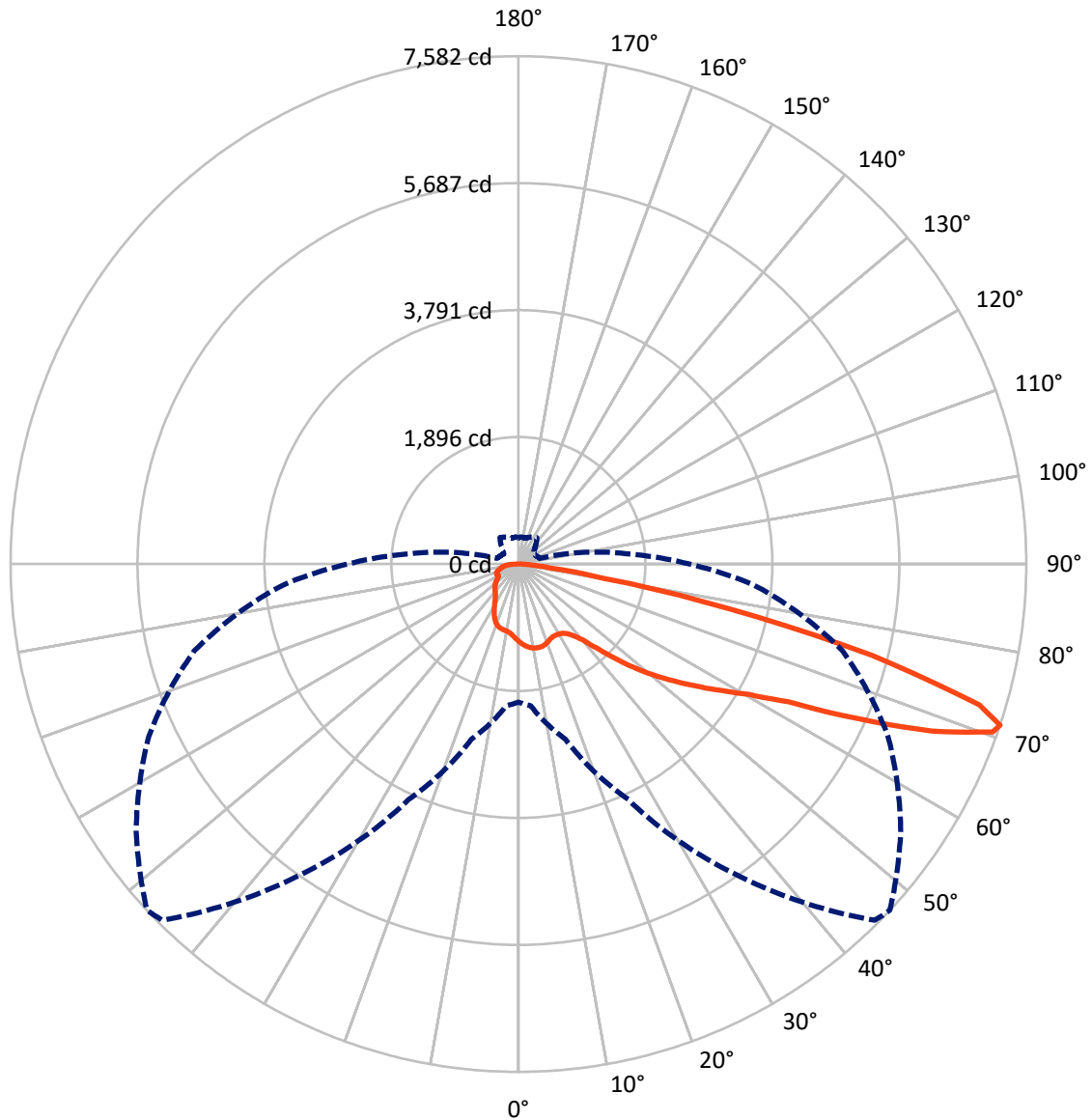


Based on 10 foot mounting height. Maximum calculated value = 13.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2083.8	0.0	2083.8
	% Fixture	21.4	0.0	21.4
<b>Street Side</b>	Lumens	7639.2	0.0	7639.2
	% Fixture	78.6	0.0	78.6
<b>Total</b>	Lumens	9723.0	0.0	9723.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.4	1.1
10°-20°	323.0	3.3
20°-30°	479.9	4.9
30°-40°	689.1	7.1
40°-50°	1221.8	12.6
50°-60°	2090.7	21.5
60°-70°	2968.0	30.5
70°-80°	1625.6	16.7
80°-90°	214.6	2.2
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°	9723.0	100.0
0°-180°	9723.0	100.0

**Coefficient of Utilization**



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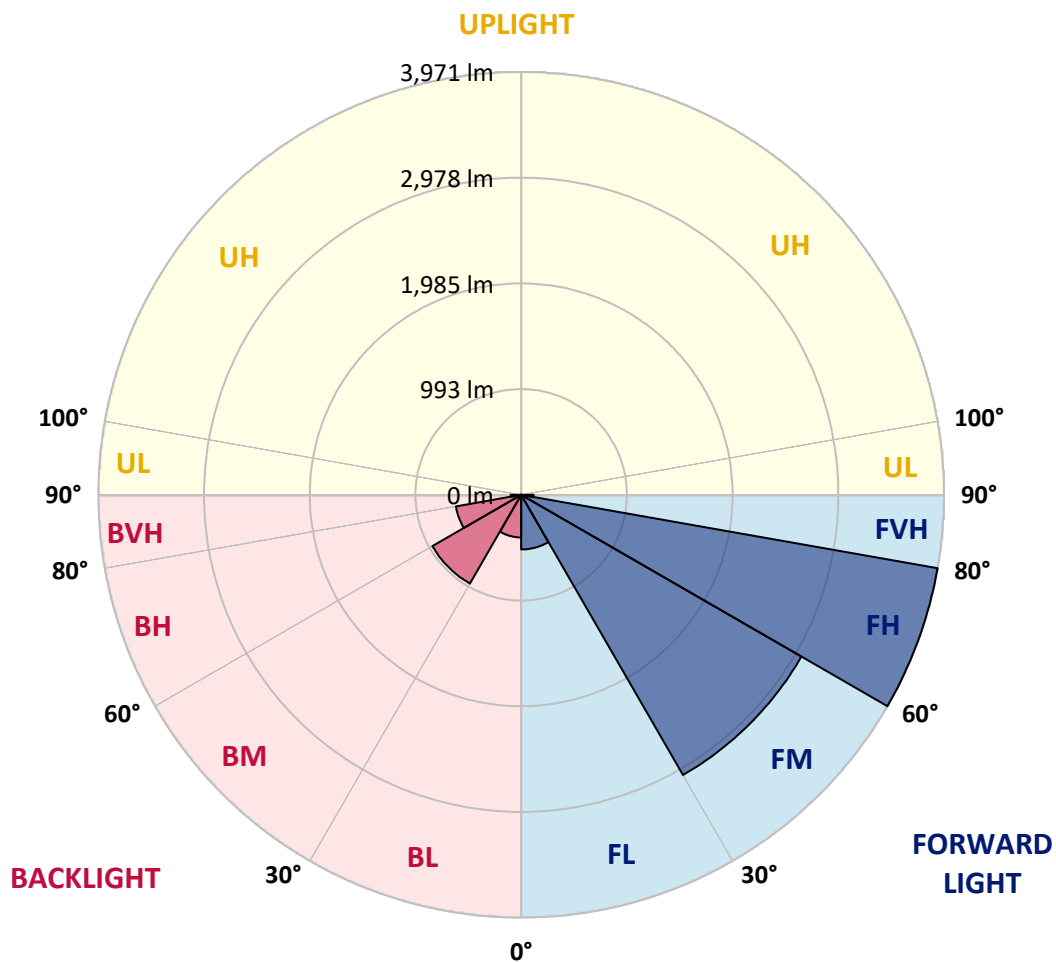
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	513.1	5.3			
FM	(30°-60°)	3038.7	31.3			
FH	(60°-80°)	3971.0	40.8			G2/5000
FVH	(80°-90°)	116.4	1.2			G2/225
BL	(0°-30°)	400.2	4.1	B1/500		
BM	(30°-60°)	962.8	9.9	B1/1000		
BH	(60°-80°)	622.6	6.4	B2/1000		G2/1000
BVH	(80°-90°)	98.2	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2
2.5°	1226.8	1224.3	1225.5	1221.1	1210.4	1199.1	1199.1	1187.1	1174.5	1161.9	1148.0
5°	1303.0	1299.3	1296.1	1282.2	1261.5	1238.1	1234.4	1210.4	1184.6	1158.7	1133.5
7.5°	1366.7	1362.9	1353.4	1328.2	1298.0	1263.3	1258.9	1227.4	1193.4	1157.5	1122.2
10°	1412.0	1409.5	1391.3	1359.1	1323.8	1282.9	1275.3	1243.2	1202.9	1158.1	1113.4
12.5°	1437.3	1433.5	1411.4	1373.6	1332.0	1290.4	1282.9	1252.0	1206.0	1156.9	1104.6
15°	1427.2	1425.3	1404.5	1366.0	1324.5	1288.5	1282.2	1250.7	1204.1	1152.4	1096.4
17.5°	1384.3	1388.7	1372.4	1334.5	1300.5	1275.3	1268.4	1238.8	1194.7	1141.7	1083.8
20°	1325.1	1330.1	1321.9	1283.5	1264.0	1247.6	1243.8	1219.9	1178.9	1126.0	1068.6
22.5°	1262.1	1266.5	1267.1	1231.2	1224.9	1218.6	1215.5	1198.4	1165.0	1116.5	1058.6
25°	1218.6	1223.6	1224.9	1193.4	1197.2	1199.1	1198.4	1186.5	1162.5	1116.5	1059.8
27.5°	1207.3	1209.8	1208.5	1179.5	1186.5	1197.2	1197.8	1195.3	1172.6	1129.1	1077.5
30°	1246.3	1247.6	1231.8	1188.4	1195.3	1209.2	1209.8	1208.5	1194.0	1161.9	1117.2
32.5°	1415.2	1413.9	1359.7	1247.6	1223.6	1228.7	1230.6	1241.9	1243.2	1216.1	1174.5
35°	1672.3	1671.6	1608.6	1417.1	1304.3	1277.8	1280.4	1298.0	1313.8	1295.5	1271.5
37.5°	1955.2	1957.1	1918.6	1659.0	1478.2	1367.9	1365.4	1378.7	1407.0	1413.3	1416.5
40°	2269.0	2278.4	2276.5	1936.9	1722.1	1521.7	1496.5	1481.4	1536.2	1570.8	1615.6
42.5°	2627.5	2625.0	2626.2	2241.9	2000.6	1763.6	1717.0	1646.4	1710.1	1769.9	1868.2
45°	2935.6	2945.7	2953.3	2566.4	2312.5	2040.3	1993.0	1864.5	1921.8	2011.3	2161.2
47.5°	3245.6	3228.0	3241.8	2927.4	2659.6	2355.9	2294.8	2121.5	2175.1	2301.1	2529.2
50°	3606.7	3598.5	3535.5	3398.7	3079.3	2676.0	2596.0	2390.0	2468.1	2636.3	2983.5
52.5°	3930.5	3886.4	3837.3	3769.2	3492.0	2999.9	2898.4	2669.1	2812.8	3021.3	3547.4
55°	4049.0	4019.4	4078.6	4166.8	3928.7	3330.1	3216.6	2994.8	3201.5	3461.8	4210.9
57.5°	4175.0	4185.1	4318.7	4497.0	4342.0	3682.3	3559.4	3380.5	3628.1	3954.5	4952.6
60°	4238.0	4278.4	4544.9	4879.5	4735.2	4068.5	3950.7	3823.4	4101.3	4498.9	5692.3
62.5°	4248.7	4302.9	4680.4	5013.7	5276.4	4660.2	4524.1	4386.1	4692.3	5100.6	6227.9
65°	4052.2	4135.3	4668.4	5178.8	5769.8	5648.8	5562.5	5321.8	5483.7	5630.5	6319.2
67.5°	3474.4	3565.1	4206.5	5110.7	6165.5	6674.6	6658.2	6302.9	6094.9	5835.3	5641.9
70°	2550.0	2623.1	3239.3	4369.1	5992.9	7479.9	7508.9	6938.6	6265.7	5400.6	4195.2
71°	2062.3	2125.3	2706.3	3878.9	5656.4	7521.5	7582.0	6967.0	6088.0	5008.0	3512.2
72.5°	1283.5	1318.8	1797.0	2927.4	4870.6	7093.0	7195.1	6604.0	5528.5	4233.0	2482.6
75°	484.5	498.4	666.6	1291.1	2907.3	5328.7	5452.2	4991.0	3883.9	2416.4	1039.0
77.5°	260.2	267.2	330.8	536.8	1165.0	3054.7	3213.5	2846.8	1863.2	845.6	424.7
80°	174.5	178.9	228.7	318.2	535.6	1163.2	1295.5	1143.0	697.5	482.7	302.4
82.5°	112.8	115.3	155.6	209.2	345.9	408.9	466.9	487.7	435.4	345.9	182.7
85°	74.4	76.2	102.7	133.6	214.2	201.6	206.7	270.3	296.8	228.1	93.3
87.5°	42.8	44.1	61.7	68.7	96.4	75.6	81.9	128.5	176.4	148.7	53.6
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°	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2
2.5°	1141.7	1136.7	1125.4	1118.4	1115.3	1114.0	1112.8	1115.3	1115.3	1114.0	1111.5
5°	1120.9	1111.5	1092.6	1079.4	1072.4	1070.5	1073.1	1076.2	1078.1	1078.1	1076.2
7.5°	1105.8	1092.0	1066.8	1048.5	1037.8	1034.6	1041.5	1052.9	1060.5	1064.2	1064.9
10°	1093.2	1074.3	1046.6	1027.7	1018.9	1017.6	1026.4	1040.9	1056.7	1063.6	1064.9
12.5°	1081.9	1060.5	1030.2	1012.6	1006.3	1009.4	1021.4	1034.6	1052.9	1063.0	1063.6
15°	1071.2	1049.1	1017.0	998.7	997.4	1002.5	1013.8	1024.5	1038.4	1051.0	1051.0
17.5°	1058.6	1034.6	1001.2	984.2	984.2	988.6	996.2	1001.9	1010.7	1022.6	1022.0
20°	1043.4	1018.9	984.8	967.2	963.4	960.9	960.9	962.2	969.7	980.4	982.3
22.5°	1032.1	1006.9	971.0	949.6	932.5	916.2	909.2	906.7	913.6	923.7	926.2
25°	1032.1	1006.9	966.6	930.7	889.1	857.6	844.3	840.5	847.5	856.9	860.7
27.5°	1049.1	1023.9	976.6	913.6	837.4	787.0	771.2	768.1	774.4	782.0	785.7
30°	1088.8	1064.2	1005.6	894.1	780.1	713.9	696.3	693.1	696.3	699.4	703.8
32.5°	1155.0	1134.2	1052.9	876.5	722.1	647.7	626.3	621.3	622.5	623.2	626.9
35°	1262.7	1253.3	1115.9	855.7	667.3	593.6	571.5	561.4	560.8	563.9	568.3
37.5°	1427.8	1433.5	1197.2	825.4	621.9	555.1	533.1	523.0	517.9	524.2	529.3
40°	1660.9	1674.2	1291.1	784.5	584.7	532.4	509.1	499.7	492.7	490.8	493.4
42.5°	1964.0	1960.2	1386.8	732.2	544.4	517.3	492.7	482.7	471.3	456.8	453.7
45°	2323.2	2269.0	1466.9	667.9	498.4	502.8	477.6	463.8	446.1	424.7	422.2
47.5°	2747.2	2597.9	1516.0	599.2	455.6	483.9	460.6	439.2	413.3	399.5	397.6
50°	3258.2	2982.9	1550.7	529.3	417.1	460.0	436.7	408.3	383.1	379.3	378.7
52.5°	3863.1	3437.2	1593.5	466.3	386.9	429.1	412.7	383.7	363.6	365.5	365.5
55°	4506.5	3907.2	1594.8	416.5	360.4	393.2	395.1	371.8	356.0	362.3	364.2
57.5°	5093.1	4318.1	1469.4	381.2	335.2	364.8	389.4	376.2	364.2	386.2	388.1
60°	5604.7	4634.4	1199.7	352.2	314.4	354.1	402.0	403.3	400.7	460.6	465.0
62.5°	5791.8	4637.5	851.9	327.7	303.1	360.4	428.5	430.4	430.4	485.8	494.0
65°	5529.7	4251.3	567.1	313.2	295.5	374.3	449.9	441.7	422.2	460.6	451.8
67.5°	4606.0	3309.3	414.6	303.7	284.8	374.9	468.8	448.0	414.6	447.4	432.2
70°	3165.6	2105.8	347.2	294.9	272.2	358.5	478.9	446.1	403.3	417.1	397.0
71°	2548.1	1680.5	329.5	291.7	267.2	349.1	480.1	443.6	397.6	406.4	388.1
72.5°	1678.6	1035.2	308.1	284.8	259.6	332.7	477.0	437.9	390.0	390.7	378.7
75°	662.2	429.1	277.2	269.1	238.2	306.2	463.1	425.9	375.5	362.9	357.9
77.5°	334.6	280.4	243.8	247.0	213.0	279.1	443.6	406.4	355.4	338.4	334.6
80°	244.5	213.0	208.6	214.2	184.6	252.7	419.0	379.9	329.5	347.2	339.6
82.5°	148.7	129.8	163.2	177.1	154.4	225.6	390.0	349.1	296.8	273.5	264.6
85°	70.6	76.2	117.8	130.4	114.0	180.2	356.6	315.0	259.0	223.7	227.5
87.5°	34.7	42.2	67.4	78.1	75.0	132.3	269.1	244.5	204.2	168.2	164.5
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)