

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: P198862

Luminaire Tested: **XNV-AF-01-LED-U-SL2-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198862  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24257)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV-AF-01-LED-U-SL2-7050  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5929 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

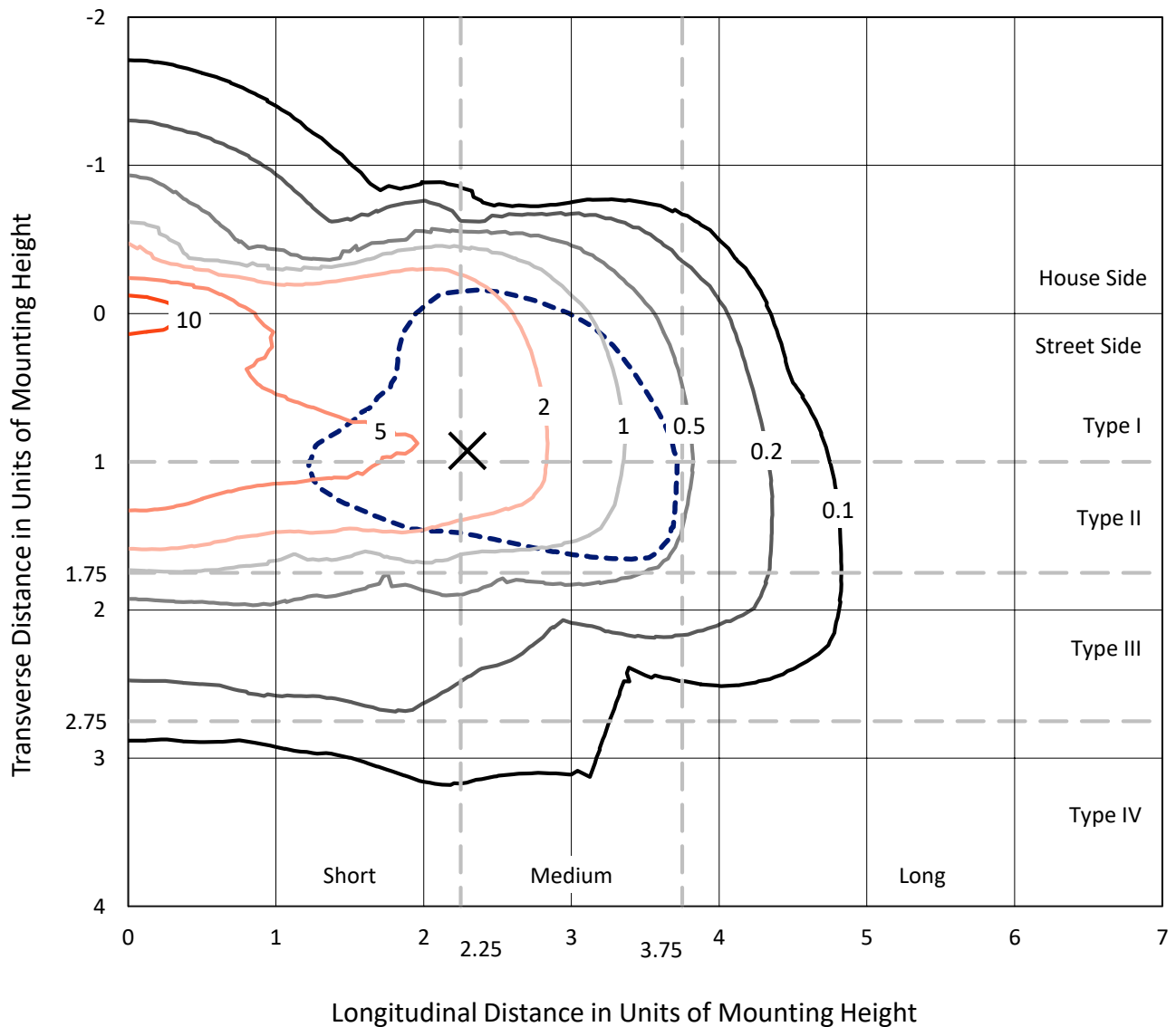
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

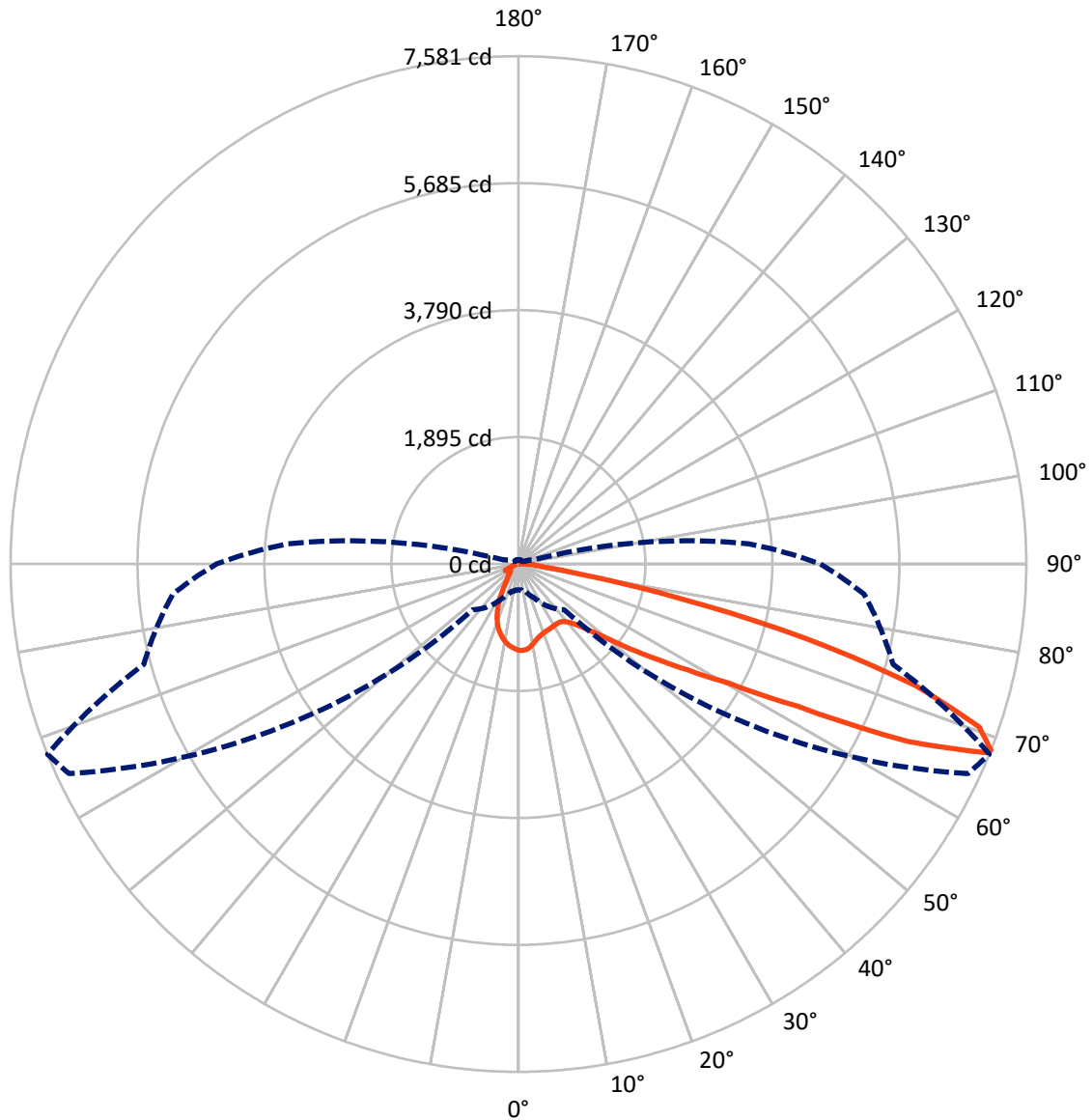


Based on 10 foot mounting height. Maximum calculated value = 12.9 fc  
 Type II - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	970.0	0.0	970.0
	% Fixture	16.4	0.0	16.4
<b>Street Side</b>	Lumens	4959.0	0.0	4959.0
	% Fixture	83.6	0.0	83.6
<b>Total</b>	Lumens	5929.0	0.0	5929.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.5	1.9
10°-20°	256.4	4.3
20°-30°	346.7	5.8
30°-40°	488.9	8.2
40°-50°	803.9	13.6
50°-60°	1246.2	21.0
60°-70°	1615.7	27.3
70°-80°	927.2	15.6
80°-90°	133.4	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°	5929.0	100.0
0°-180°	5929.0	100.0

**Coefficient of Utilization**



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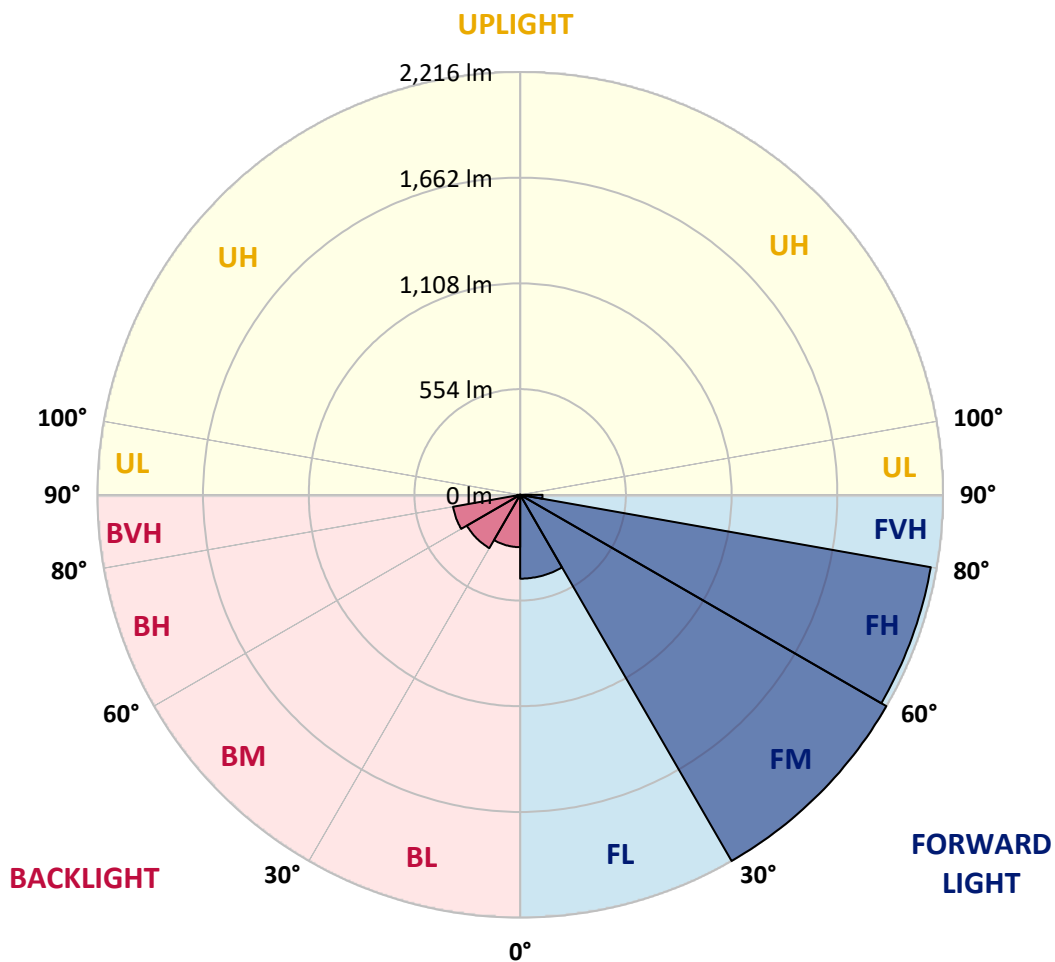
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.4	7.4			
FM (30°-60°)	2216.4	37.4			
FH (60°-80°)	2185.7	36.9			G2/5000
FVH (80°-90°)	117.5	2.0			G2/225
BL (0°-30°)	274.2	4.6	B1/500		
BM (30°-60°)	322.6	5.4	B1/1000		
BH (60°-80°)	357.2	6.0	B1/500		G1/500
BVH (80°-90°)	15.9	0.3			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1
2.5°	1255.6	1265.7	1265.7	1273.1	1279.6	1285.1	1289.7	1289.7	1289.7	1286.6	1283.9
5°	1123.6	1137.1	1139.1	1157.6	1182.0	1211.9	1245.2	1274.6	1280.4	1291.3	1295.5
7.5°	1031.8	1036.0	1043.4	1056.2	1081.0	1117.7	1170.0	1235.9	1251.8	1285.8	1303.7
10°	966.7	970.2	976.4	989.2	1011.6	1044.9	1096.4	1182.0	1208.4	1268.8	1304.0
12.5°	919.1	921.8	927.6	939.2	962.1	991.9	1044.5	1133.6	1166.2	1251.8	1309.5
15°	881.9	886.5	891.2	902.4	925.6	954.3	1007.8	1098.4	1133.6	1238.2	1319.5
17.5°	867.2	869.5	870.3	876.1	897.0	926.0	979.5	1073.6	1110.0	1227.4	1327.3
20°	876.5	876.8	869.1	865.2	877.2	904.0	955.9	1055.0	1092.2	1217.7	1330.4
22.5°	917.1	917.1	897.0	879.9	871.8	888.5	940.0	1042.2	1082.5	1210.3	1330.4
25°	994.6	991.1	959.7	926.0	890.0	883.0	929.9	1034.1	1075.1	1206.4	1325.3
27.5°	1096.4	1093.3	1053.5	1003.5	938.4	894.7	926.4	1027.5	1067.8	1200.6	1314.5
30°	1220.4	1217.7	1172.4	1106.9	1010.9	931.5	934.6	1022.9	1062.0	1190.9	1296.3
32.5°	1343.9	1342.4	1306.4	1239.4	1110.8	993.8	955.9	1022.1	1058.9	1179.3	1274.2
35°	1468.3	1468.3	1446.2	1389.6	1245.2	1087.5	1000.4	1036.4	1064.7	1173.1	1255.2
37.5°	1651.8	1644.5	1603.4	1544.9	1414.4	1209.2	1072.4	1066.6	1087.2	1183.6	1249.0
40°	1936.1	1914.8	1812.2	1713.8	1599.2	1364.8	1177.8	1125.1	1137.5	1219.2	1263.8
42.5°	2233.6	2199.9	2063.9	1906.7	1790.1	1556.9	1316.0	1220.0	1219.6	1288.2	1310.6
45°	2488.8	2471.4	2324.2	2124.7	2008.2	1773.1	1490.7	1361.0	1347.0	1395.1	1400.9
47.5°	2637.1	2625.5	2536.8	2355.6	2266.9	2028.3	1712.3	1556.6	1530.2	1558.9	1550.0
50°	2596.1	2607.3	2581.7	2489.2	2545.0	2386.9	1994.6	1824.6	1774.6	1803.3	1781.6
52.5°	2380.0	2410.2	2433.0	2450.8	2704.9	2866.8	2349.4	2159.2	2117.8	2112.7	2091.8
55°	1990.7	2038.7	2110.8	2241.7	2661.9	3252.2	2969.0	2563.9	2503.5	2471.8	2479.9
57.5°	1354.8	1427.6	1582.9	1831.9	2438.4	3416.4	3885.4	3086.8	2984.5	2871.4	2897.8
60°	746.3	807.1	991.9	1242.8	1928.4	3392.0	4697.6	3936.5	3614.7	3314.9	3369.1
62.5°	483.0	496.1	633.6	849.0	1183.6	2994.6	5148.8	5356.8	4674.7	3899.7	3976.0
65°	388.1	397.4	464.8	684.7	824.6	1926.4	5168.9	6830.0	6380.4	4694.5	4696.8
67.5°	379.2	383.4	422.5	575.9	773.4	1048.8	4467.9	7411.0	7515.2	5632.5	5179.0
68°	384.6	389.6	429.1	558.1	773.1	966.7	4129.4	7402.1	7580.6	5789.4	5179.0
70°	339.3	345.5	437.6	577.5	740.1	831.1	2827.7	7009.0	7296.4	6149.9	4914.1
72.5°	177.4	172.3	216.5	455.9	833.1	866.0	1493.8	5855.6	6191.0	5695.6	4245.6
75°	138.3	125.9	121.2	180.1	732.8	898.1	867.6	4161.9	4415.2	4105.8	2837.7
77.5°	130.1	115.0	106.1	106.5	322.6	934.6	701.8	2449.3	2449.3	1958.6	905.5
80°	104.6	90.6	84.8	96.8	155.7	861.4	732.4	1116.2	952.0	506.2	249.4
82.5°	68.9	61.6	62.0	78.6	118.1	575.1	848.2	551.1	414.0	224.2	146.8
85°	43.8	37.6	41.8	55.0	88.3	256.4	839.7	383.0	274.2	125.9	73.2
87.5°	22.1	17.0	20.9	28.7	53.8	73.6	691.3	342.0	203.3	52.3	39.9
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°	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1
2.5°	1283.9	1275.4	1271.1	1264.1	1255.6	1247.1	1241.3	1238.6	1237.0	1237.8	1237.4
5°	1293.2	1282.0	1263.8	1237.8	1211.1	1182.8	1161.1	1144.5	1134.0	1130.9	1130.1
7.5°	1300.2	1283.9	1249.8	1202.6	1156.9	1107.3	1065.1	1031.4	1008.5	998.1	997.7
10°	1299.0	1278.1	1224.3	1154.5	1087.5	1014.7	948.5	892.0	850.9	831.1	830.4
12.5°	1300.2	1271.5	1192.9	1098.4	1002.3	898.1	799.8	711.9	650.7	621.6	620.5
15°	1304.8	1264.5	1160.7	1035.6	902.8	755.6	615.0	504.7	448.9	429.9	429.9
17.5°	1304.4	1252.9	1123.6	962.8	784.7	587.5	419.8	351.7	346.2	363.7	366.4
20°	1296.7	1234.3	1075.5	876.5	646.0	406.7	284.7	275.0	318.4	366.4	371.8
22.5°	1284.7	1210.3	1020.1	776.1	484.5	264.9	219.6	234.3	293.2	352.8	361.4
25°	1268.0	1181.3	956.6	659.6	322.2	190.6	183.2	201.4	242.8	282.7	288.9
27.5°	1243.6	1144.5	887.3	533.3	205.7	156.9	159.6	172.3	190.2	207.2	210.7
30°	1213.0	1101.5	811.8	393.5	156.1	140.2	144.9	152.6	160.3	171.2	173.5
32.5°	1182.0	1057.7	733.2	270.3	136.3	131.3	135.9	140.2	146.8	154.1	155.7
35°	1154.2	1017.1	652.2	188.6	127.8	125.5	127.8	130.5	137.1	144.5	145.2
37.5°	1134.0	983.7	567.8	149.1	122.8	120.5	121.6	122.8	130.5	141.4	142.5
40°	1131.3	961.7	482.2	134.0	118.9	115.8	115.0	115.8	125.9	138.3	139.4
42.5°	1157.6	962.8	398.5	127.8	115.8	112.3	109.2	110.8	119.7	129.4	130.1
45°	1220.0	989.9	326.1	125.1	113.1	110.4	105.7	106.5	110.8	115.8	116.6
47.5°	1330.0	1049.2	270.7	123.5	110.8	108.4	102.6	100.3	100.7	103.4	103.4
50°	1505.8	1148.3	237.0	122.0	108.8	104.6	98.0	93.3	92.2	93.7	94.1
52.5°	1768.0	1318.4	220.8	118.9	105.3	99.5	92.2	87.5	85.6	87.1	87.1
55°	2122.4	1589.9	213.0	114.6	101.1	93.3	86.8	82.9	81.3	82.5	82.5
57.5°	2526.4	1942.7	226.2	108.8	95.7	86.8	82.1	79.4	78.2	79.4	79.8
60°	3006.2	2404.4	316.8	101.5	89.9	80.9	78.2	76.7	75.9	77.1	77.1
62.5°	3644.1	3018.6	490.3	95.7	83.7	75.5	74.7	74.0	73.2	74.4	74.4
65°	4332.7	3577.5	504.7	92.2	78.2	70.9	71.3	71.3	70.5	71.7	71.7
67.5°	4551.9	3529.1	282.0	87.9	71.7	66.2	67.8	67.8	67.4	68.6	68.2
68°	4505.5	3452.4	245.5	86.8	70.5	65.1	66.6	67.0	66.6	67.8	67.4
70°	4159.2	3031.0	161.5	80.2	65.5	61.2	63.5	63.9	63.5	65.1	64.7
72.5°	3433.4	2273.5	119.3	70.1	59.3	56.2	58.5	58.9	59.3	60.8	60.4
75°	2180.5	1255.6	94.1	59.6	53.1	50.3	52.7	53.8	54.6	56.9	55.8
77.5°	597.2	381.1	76.3	50.7	45.7	44.5	46.1	47.6	48.4	51.1	49.2
80°	209.1	168.5	63.5	43.0	38.0	37.6	39.1	40.7	41.4	43.8	41.4
82.5°	127.0	110.0	50.7	33.7	29.8	29.4	31.4	32.9	33.7	33.7	32.1
85°	66.2	58.1	37.2	23.6	20.5	19.4	22.9	24.8	25.2	24.8	23.6
87.5°	37.2	32.9	19.8	11.2	9.3	9.7	12.0	14.7	15.9	15.5	14.7
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)