

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: P198718

Luminaire Tested: **XNV-AF-01-LED-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198718  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24262)  
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-SL3  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6179.6 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

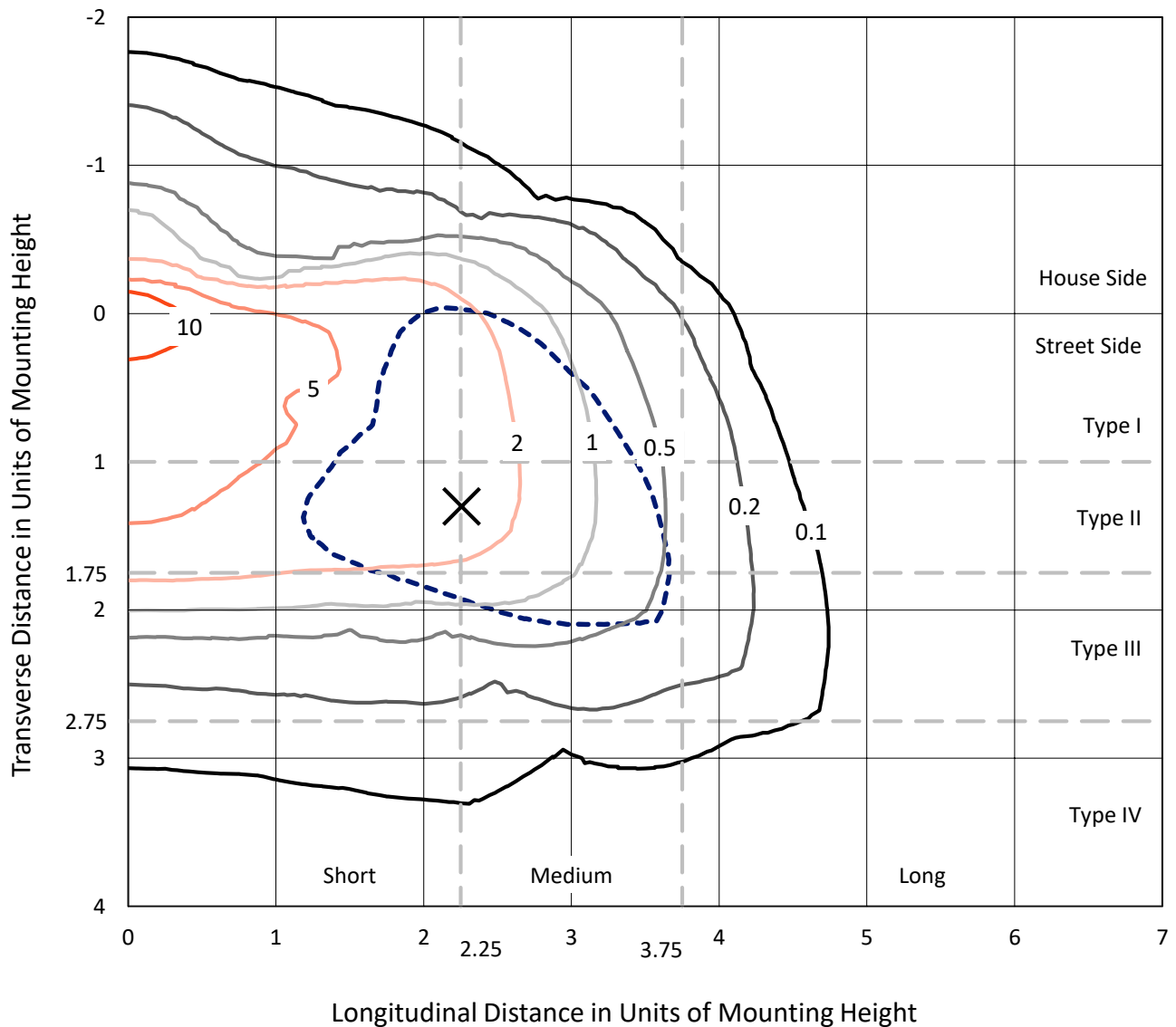
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

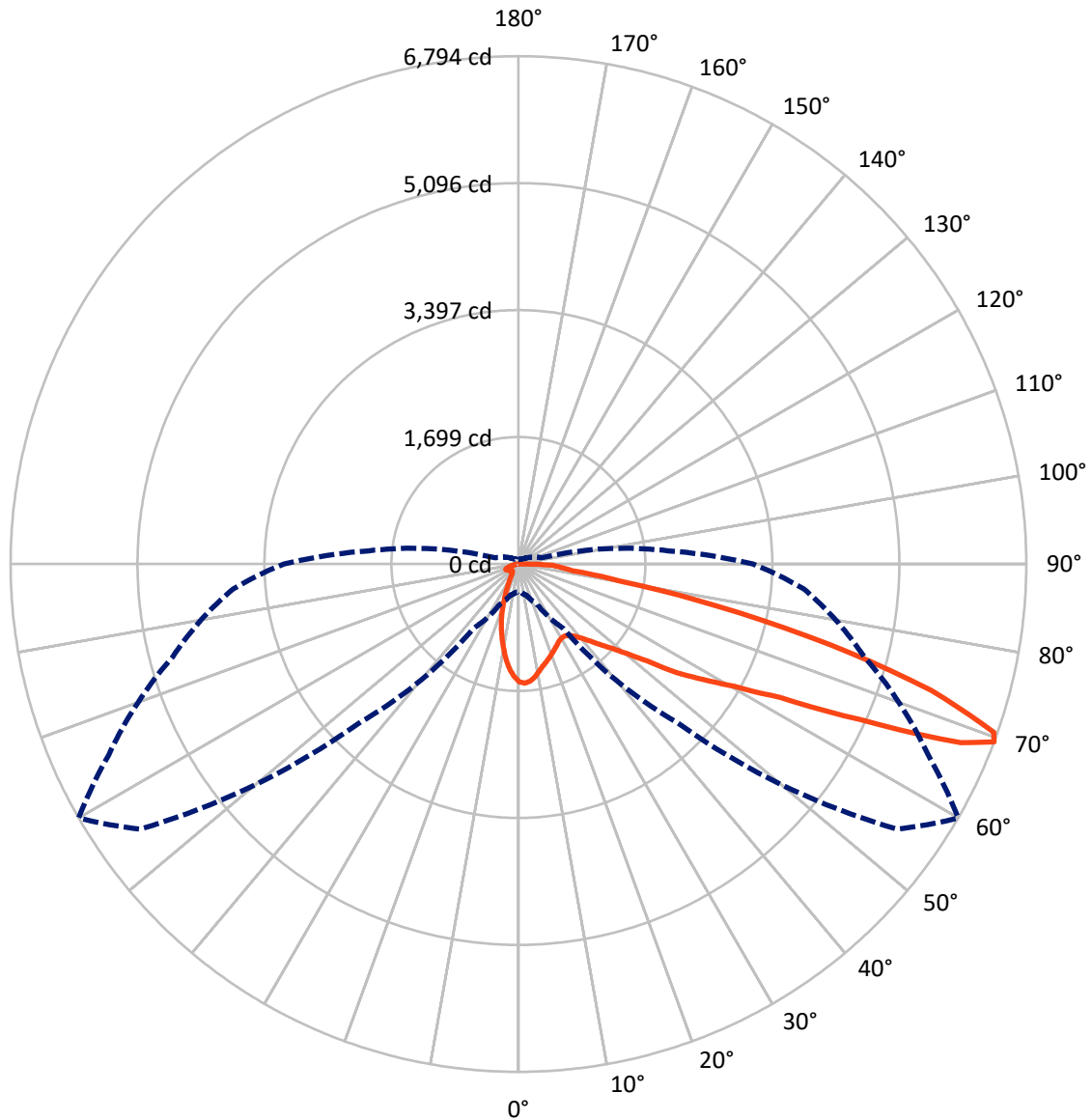


Based on 10 foot mounting height. Maximum calculated value = 15.8 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	881.4	0.0	881.4
	% Fixture	14.3	0.0	14.3
<b>Street Side</b>	Lumens	5298.2	0.0	5298.2
	% Fixture	85.7	0.0	85.7
<b>Total</b>	Lumens	6179.6	0.0	6179.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.8	2.2
10°-20°	286.4	4.6
20°-30°	365.4	5.9
30°-40°	502.8	8.1
40°-50°	814.4	13.2
50°-60°	1278.1	20.7
60°-70°	1704.0	27.6
70°-80°	947.8	15.3
80°-90°	147.0	2.4
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°	6179.6	100.0
0°-180°	6179.6	100.0

**Coefficient of Utilization**



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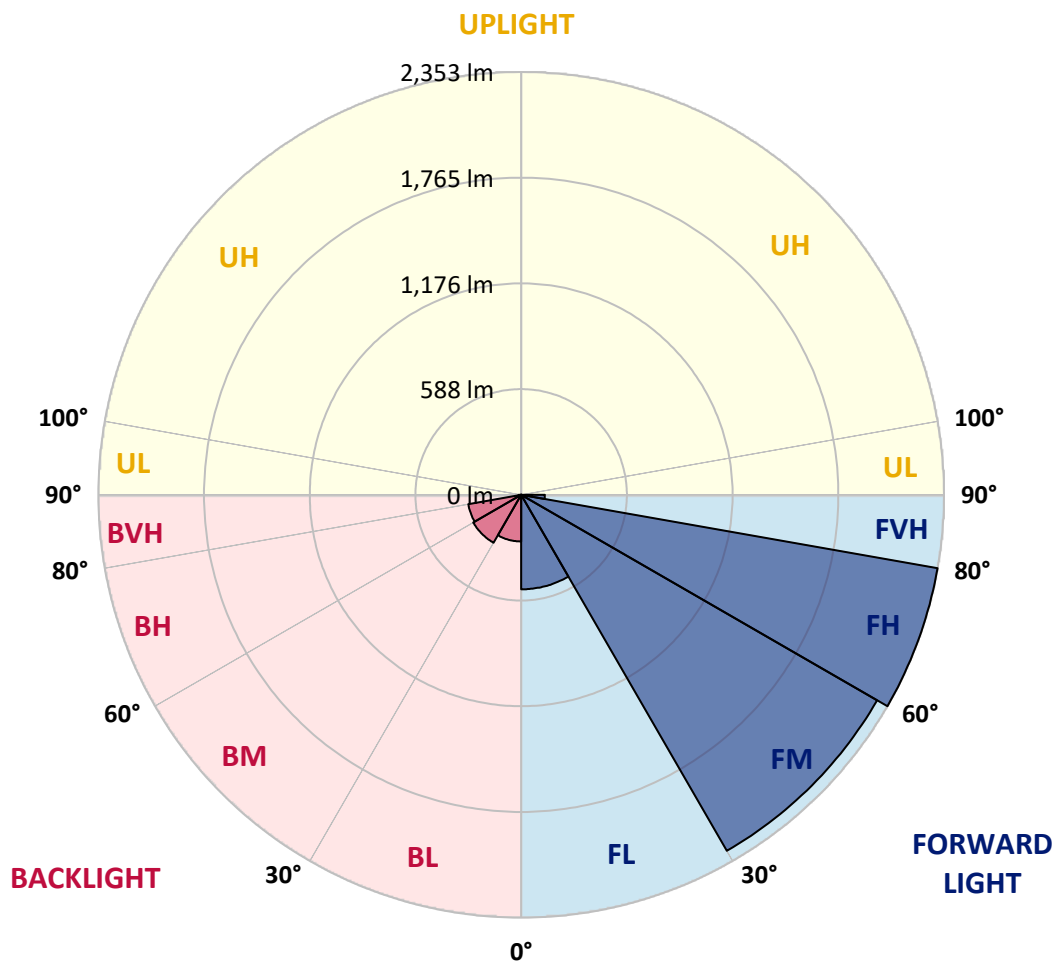
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	525.8	8.5			
FM	(30°-60°)	2287.4	37.0			
FH	(60°-80°)	2353.0	38.1			G2/5000
FVH	(80°-90°)	132.1	2.1			G2/225
BL	(0°-30°)	259.8	4.2	B1/500		
BM	(30°-60°)	307.9	5.0	B1/1000		
BH	(60°-80°)	298.8	4.8	B1/500		G1/500
BVH	(80°-90°)	14.9	0.2			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°	60°	65°	75°	85°
0°	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8
2.5°	1618.7	1623.1	1623.1	1619.5	1617.6	1606.0	1599.4	1594.6	1586.3	1570.8	1556.9
5°	1560.9	1569.2	1572.8	1574.4	1584.7	1581.1	1581.5	1578.3	1571.3	1554.6	1532.0
7.5°	1454.7	1456.3	1462.6	1473.4	1498.3	1515.7	1530.0	1532.8	1531.2	1518.9	1487.2
10°	1350.1	1352.9	1360.4	1378.6	1402.4	1427.3	1458.3	1471.0	1480.4	1476.5	1436.4
12.5°	1263.3	1263.8	1272.0	1293.0	1319.6	1350.9	1392.8	1412.7	1435.3	1444.4	1399.6
15°	1179.7	1185.3	1193.2	1218.5	1251.4	1291.1	1339.3	1366.8	1396.4	1422.6	1371.1
17.5°	1116.2	1120.6	1125.5	1146.4	1184.5	1234.0	1293.8	1323.2	1362.4	1402.4	1341.8
20°	1081.5	1083.0	1079.4	1089.7	1121.9	1175.4	1244.7	1279.9	1326.7	1383.0	1311.6
22.5°	1074.3	1074.3	1061.2	1059.3	1073.5	1118.7	1194.0	1237.2	1294.2	1369.5	1284.7
25°	1107.5	1105.2	1080.6	1058.0	1052.9	1075.8	1145.6	1198.7	1266.5	1369.1	1264.5
27.5°	1170.6	1167.4	1136.9	1098.9	1065.9	1056.1	1108.4	1162.7	1244.7	1382.6	1254.2
30°	1249.0	1247.9	1216.9	1169.4	1115.1	1064.0	1093.7	1144.1	1230.0	1407.6	1253.8
32.5°	1335.1	1329.5	1310.5	1262.9	1192.4	1108.0	1102.4	1144.8	1226.1	1444.0	1262.9
35°	1426.6	1422.6	1417.8	1369.9	1290.7	1185.6	1140.9	1172.2	1245.4	1494.7	1288.7
37.5°	1543.1	1538.7	1546.6	1494.3	1407.6	1287.5	1205.9	1226.8	1285.1	1568.4	1336.6
40°	1750.4	1737.7	1715.5	1635.0	1543.8	1412.3	1299.8	1302.9	1352.9	1667.1	1413.5
42.5°	2090.7	2049.9	1940.1	1792.3	1687.7	1557.3	1422.2	1407.2	1446.4	1797.5	1525.2
45°	2431.9	2385.9	2200.5	1963.9	1836.7	1713.0	1573.6	1537.5	1562.9	1949.2	1669.0
47.5°	2652.2	2629.6	2420.4	2135.5	1992.8	1882.6	1746.8	1687.4	1705.6	2121.2	1846.6
50°	2716.9	2697.4	2532.9	2269.8	2140.2	2087.5	1961.1	1882.2	1885.4	2322.1	2059.4
52.5°	2668.5	2660.6	2551.5	2353.1	2275.8	2303.5	2258.0	2148.2	2122.0	2542.4	2290.1
55°	2603.9	2606.7	2564.6	2436.7	2413.7	2504.8	2646.3	2557.9	2447.0	2771.9	2530.2
57.5°	2400.6	2402.6	2512.8	2595.9	2676.8	2786.9	2948.7	2911.4	2782.2	3019.5	2799.2
60°	1933.0	1948.4	2193.7	2563.1	2977.6	3342.9	3382.6	3318.4	3138.8	3304.8	3149.2
62.5°	1381.0	1394.9	1679.0	2225.0	2942.3	3972.2	4183.8	3928.6	3622.7	3731.6	3641.3
65°	725.6	723.2	943.2	1537.5	2478.3	4118.0	5446.3	5012.0	4437.9	4318.6	4116.9
67.5°	405.4	418.5	503.7	775.5	1615.2	3624.3	6252.8	6380.8	5571.2	4784.1	4096.2
69°	374.9	379.2	436.3	599.6	1052.9	2990.3	6183.4	6794.0	6049.0	4786.2	3832.3
70°	364.2	368.9	420.8	552.4	884.4	2450.2	5931.0	6745.6	6165.1	4679.9	3592.2
72.5°	326.5	332.9	383.2	496.5	745.4	1262.9	4777.4	5773.6	5584.6	4090.3	2785.4
75°	278.5	289.3	365.4	493.0	706.1	802.8	3186.0	4301.5	4156.5	2925.2	1580.4
77.5°	115.3	116.5	159.7	361.0	741.0	768.3	1712.3	2724.7	2412.1	1282.7	475.9
80°	80.4	78.9	79.7	105.4	598.0	773.6	878.5	1385.8	1077.1	338.4	222.7
82.5°	67.7	67.0	70.2	66.2	202.5	877.7	734.7	722.4	507.2	182.3	106.2
85°	44.8	43.6	57.5	60.3	96.3	697.0	790.1	567.8	378.1	97.5	45.2
87.5°	21.8	22.2	32.9	40.8	51.1	220.8	756.9	449.0	292.1	42.4	18.2
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°	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8	1576.8
2.5°	1551.4	1539.5	1528.8	1515.3	1505.1	1496.3	1484.4	1484.0	1482.1	1484.8	1485.6
5°	1516.9	1497.1	1467.0	1433.3	1409.5	1378.2	1347.7	1337.4	1325.9	1324.7	1328.3
7.5°	1465.0	1434.1	1382.6	1331.1	1279.5	1226.8	1176.9	1151.5	1127.0	1119.4	1123.0
10°	1407.2	1367.9	1289.0	1205.0	1132.5	1054.0	978.0	928.8	884.0	865.0	869.8
12.5°	1362.0	1312.0	1201.0	1092.1	983.6	871.0	770.8	673.6	600.4	567.4	569.5
15°	1323.2	1259.4	1118.7	973.6	837.7	683.5	544.5	431.9	367.8	343.9	343.2
17.5°	1281.1	1203.9	1032.7	863.5	687.1	496.5	364.6	298.0	272.6	264.7	264.7
20°	1236.3	1146.8	942.8	743.4	528.7	346.8	274.3	248.5	239.0	236.6	236.2
22.5°	1194.7	1091.0	852.4	615.4	382.4	263.1	233.4	223.5	221.9	223.9	223.9
25°	1161.9	1041.8	760.9	480.7	278.1	220.3	207.7	206.4	212.4	219.5	220.8
27.5°	1137.3	997.8	670.4	351.1	218.7	191.8	187.4	192.6	206.4	220.8	223.5
30°	1120.2	960.1	562.3	252.5	182.3	168.0	170.0	179.1	200.1	221.9	227.8
32.5°	1112.8	929.7	453.4	193.7	155.7	147.8	152.9	164.8	186.7	208.5	215.5
35°	1119.8	907.5	352.7	160.9	136.4	130.3	136.4	148.6	162.9	173.6	177.9
37.5°	1145.6	899.5	265.5	142.7	123.7	117.7	122.4	130.7	137.1	141.1	143.0
40°	1199.9	907.9	208.1	133.2	116.5	109.8	111.0	114.9	119.3	122.4	122.9
42.5°	1286.3	935.2	185.1	129.6	112.1	103.4	101.5	104.2	108.9	113.3	114.2
45°	1401.2	980.8	182.7	130.7	110.2	98.3	94.3	97.1	103.4	110.6	111.7
47.5°	1549.8	1052.9	193.7	137.1	111.4	95.5	89.5	92.4	100.7	110.2	111.7
50°	1725.7	1152.8	214.4	146.6	116.9	95.5	87.6	89.9	98.7	109.4	111.0
52.5°	1933.0	1291.9	235.8	156.1	124.8	99.0	88.4	88.0	95.9	105.8	107.8
55°	2161.7	1464.7	256.4	164.5	129.2	103.8	90.3	85.6	92.0	99.8	101.5
57.5°	2430.7	1701.2	292.5	172.4	131.6	107.4	92.7	83.2	86.7	92.4	93.5
60°	2795.7	2048.7	362.6	185.9	136.0	108.9	93.1	80.8	80.4	84.4	84.8
62.5°	3271.6	2455.7	429.5	201.7	144.6	109.4	91.6	79.3	75.3	76.5	76.5
65°	3610.0	2605.5	410.1	215.1	152.5	108.9	89.9	78.1	71.3	69.4	69.4
67.5°	3417.5	2301.5	348.3	218.7	153.3	104.6	86.3	75.3	67.7	63.0	63.0
69°	3134.5	2017.4	319.8	212.4	147.0	99.4	82.4	72.5	65.4	59.8	59.8
70°	2903.9	1802.2	302.4	204.9	139.5	95.1	78.9	69.8	63.0	58.2	57.9
72.5°	2167.9	1202.7	258.4	176.8	114.6	80.4	68.9	62.2	56.7	53.5	53.5
75°	1144.1	602.7	211.6	144.2	88.4	64.2	56.7	52.3	49.1	48.7	48.4
77.5°	374.9	272.6	152.2	108.5	65.0	49.9	45.2	42.4	42.0	43.6	43.6
80°	202.5	162.9	97.9	73.3	45.2	37.2	34.9	34.5	35.7	38.1	38.1
82.5°	98.3	80.4	58.2	45.2	30.9	27.3	27.3	27.7	29.4	32.1	32.1
85°	42.4	38.1	33.7	25.4	19.0	17.1	19.4	21.4	22.6	24.6	25.4
87.5°	20.3	17.8	15.4	9.9	8.3	8.7	10.3	12.7	15.0	16.7	17.1
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)