

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: P198571

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198571  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)  
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-SL4-7030-600  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6709 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

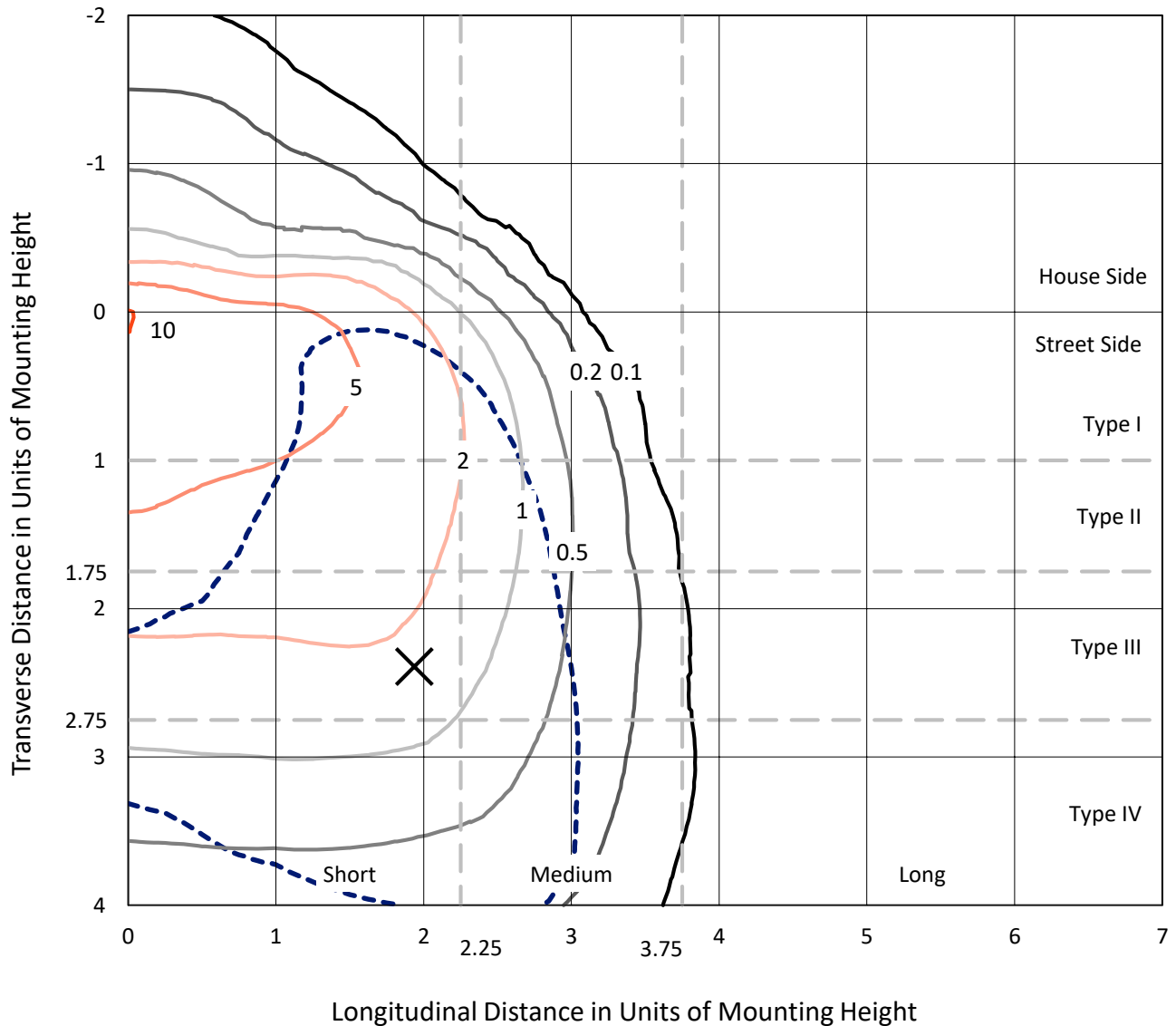
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P198571  
 CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-7030-600

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

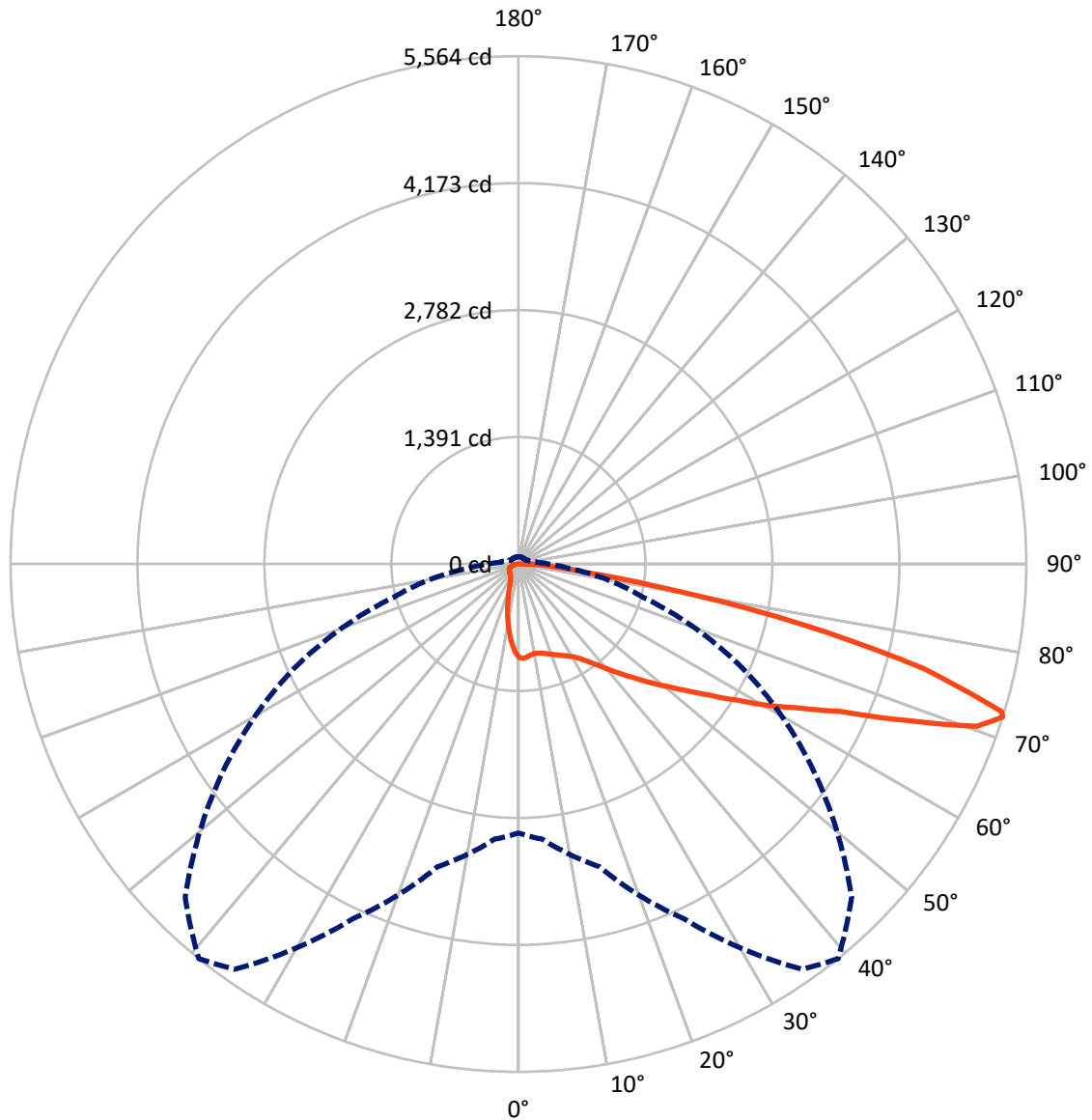


Based on 10 foot mounting height. Maximum calculated value = 10.2 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P198571

CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-7030-600

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical



REPORT NUMBER: P198571

CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-7030-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	769.3	0.0	769.3
	% Fixture	11.5	0.0	11.5
<b>Street Side</b>	Lumens	5939.7	0.0	5939.7
	% Fixture	88.5	0.0	88.5
<b>Total</b>	Lumens	6709.0	0.0	6709.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.0	1.3
10°-20°	221.2	3.3
20°-30°	344.8	5.1
30°-40°	530.9	7.9
40°-50°	865.4	12.9
50°-60°	1344.8	20.0
60°-70°	1799.9	26.8
70°-80°	1294.4	19.3
80°-90°	219.4	3.3
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°	6709.0	100.0
0°-180°	6709.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P198571

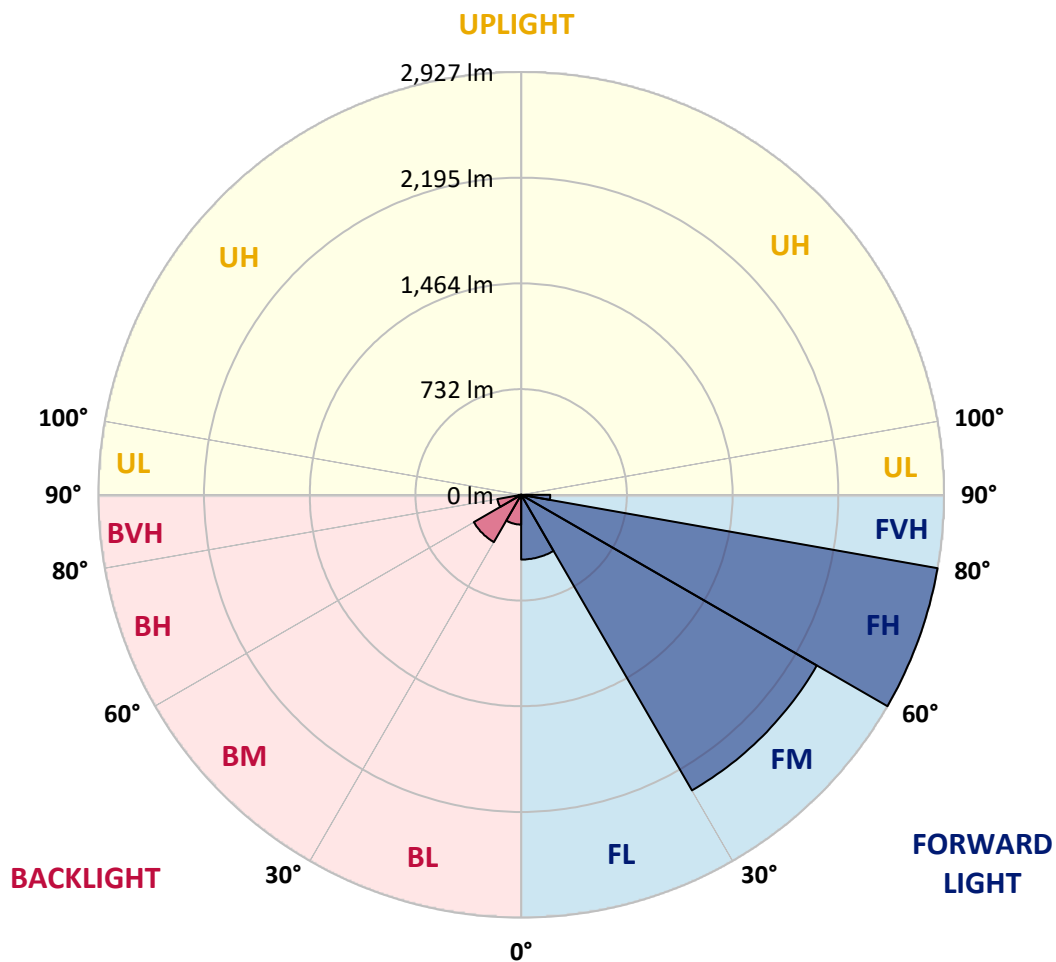
CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-7030-600

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	448.1	6.7			
FM	(30°-60°)	2363.0	35.2			
FH	(60°-80°)	2927.2	43.6			G2/5000
FVH	(80°-90°)	201.3	3.0			G2/225
BL	(0°-30°)	205.9	3.1	B1/500		
BM	(30°-60°)	378.1	5.6	B1/1000		
BH	(60°-80°)	167.1	2.5	B1/500		G1/500
BVH	(80°-90°)	18.1	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 IV Short





REPORT NUMBER: P198571

CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-7030-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6
2.5°	1046.7	1047.1	1045.8	1041.7	1038.1	1036.3	1033.1	1027.7	1020.5	1015.6	1011.5
5°	1036.7	1038.1	1037.2	1030.4	1024.1	1020.5	1015.6	1007.9	998.5	994.4	985.0
7.5°	1029.1	1030.0	1027.3	1019.6	1007.5	1003.0	994.0	984.1	975.5	969.6	958.4
10°	1023.7	1024.6	1022.3	1014.7	1001.2	995.8	985.0	974.1	962.9	955.7	943.1
12.5°	1016.0	1017.8	1017.8	1014.2	1005.2	1001.6	990.8	979.1	968.7	961.1	945.3
15°	1014.7	1016.9	1021.0	1020.5	1017.8	1015.1	1006.6	994.9	985.9	976.8	957.5
17.5°	1025.9	1030.9	1039.0	1041.7	1039.9	1034.0	1024.1	1013.3	1003.4	994.9	971.0
20°	1054.3	1057.0	1069.2	1074.6	1065.6	1057.0	1044.0	1030.0	1021.0	1014.2	983.6
22.5°	1097.1	1100.7	1110.6	1111.1	1092.1	1081.8	1065.1	1048.0	1039.4	1036.7	1000.7
25°	1165.5	1164.6	1167.4	1156.1	1121.9	1109.7	1089.4	1069.6	1063.8	1069.2	1025.9
27.5°	1247.5	1245.3	1236.7	1207.4	1155.6	1139.9	1115.6	1098.0	1098.0	1110.6	1060.2
30°	1342.1	1339.8	1311.9	1262.8	1195.7	1177.7	1152.0	1133.6	1143.0	1167.4	1106.6
32.5°	1442.1	1434.0	1394.8	1329.0	1252.9	1233.1	1208.3	1189.4	1207.4	1248.9	1173.2
35°	1536.2	1531.7	1483.5	1405.6	1326.8	1310.1	1293.0	1269.6	1298.4	1362.8	1267.3
37.5°	1633.5	1629.9	1570.9	1488.0	1416.9	1405.6	1391.2	1375.0	1421.4	1506.0	1394.8
40°	1742.0	1734.8	1660.5	1577.6	1521.8	1516.4	1508.7	1504.2	1579.0	1705.1	1556.0
42.5°	1865.0	1851.0	1755.1	1676.3	1636.2	1640.7	1636.6	1654.6	1769.0	1934.8	1747.9
45°	2005.5	1977.6	1849.2	1781.2	1762.7	1780.8	1789.3	1835.2	1993.8	2200.0	1962.2
47.5°	2137.0	2101.0	1952.3	1895.1	1905.5	1936.6	1960.9	2042.0	2240.1	2462.2	2181.1
50°	2258.1	2217.6	2062.7	2013.1	2063.6	2107.7	2158.2	2272.6	2502.2	2731.9	2382.0
52.5°	2347.8	2318.5	2173.0	2141.9	2245.1	2303.6	2384.2	2528.8	2767.1	2989.1	2561.2
55°	2417.1	2401.4	2280.7	2289.7	2450.4	2534.2	2631.9	2798.1	3047.2	3219.7	2705.4
57.5°	2497.3	2485.6	2403.6	2468.0	2705.4	2810.7	2926.0	3110.7	3313.8	3422.8	2818.4
60°	2582.0	2582.0	2540.5	2682.8	3024.2	3144.9	3259.8	3403.4	3579.5	3605.6	2864.3
62.5°	2645.9	2662.6	2677.4	2911.6	3326.9	3476.8	3602.9	3740.7	3854.7	3695.7	2756.2
65°	2738.7	2774.3	2858.0	3176.0	3701.6	3897.9	4068.2	4183.9	4077.6	3624.1	2403.6
67.5°	2898.1	2950.8	3129.1	3569.6	4275.3	4569.4	4734.7	4534.7	4033.9	3173.3	1841.1
70°	3041.8	3116.1	3421.0	4069.1	5021.1	5326.5	5250.4	4453.2	3513.3	2326.1	1132.7
72°	2946.3	3027.4	3434.5	4286.6	5419.7	5563.8	5162.6	3946.6	2714.8	1419.6	558.5
72.5°	2883.7	2967.9	3390.8	4281.2	5430.5	5533.7	5040.5	3745.3	2464.4	1242.1	451.7
75°	2409.0	2481.1	2915.7	3794.3	4785.6	4596.4	3933.5	2423.9	1132.7	401.3	232.4
77.5°	1573.1	1628.1	2010.4	2628.8	3352.1	3170.1	2394.2	1134.9	424.7	243.6	174.7
80°	790.4	829.6	1075.9	1382.2	1809.1	1664.6	1105.2	549.0	284.2	176.1	137.4
82.5°	549.9	585.9	740.9	705.7	756.2	731.8	519.7	458.0	212.6	111.2	72.1
85°	461.2	498.6	612.9	503.1	411.6	375.2	372.5	432.8	140.5	54.9	60.8
87.5°	402.2	458.9	505.8	367.5	282.4	249.1	274.3	396.8	44.6	30.2	18.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P198571

CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-7030-600

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6
2.5°	1004.8	1003.4	996.7	986.3	978.6	973.7	964.2	963.8	964.7	956.6	959.7
5°	976.4	971.0	953.4	929.6	910.2	891.7	871.5	864.7	858.8	846.7	848.0
7.5°	946.7	937.2	906.6	867.4	830.0	795.8	762.0	745.4	732.7	717.0	717.0
10°	929.1	914.2	867.4	810.2	750.8	700.8	650.3	620.2	598.1	577.8	576.5
12.5°	928.2	905.7	840.4	761.6	680.1	609.8	540.9	494.5	461.6	437.8	435.5
15°	935.4	903.9	817.9	716.1	613.4	522.0	436.9	377.9	336.0	309.4	306.7
17.5°	941.7	901.6	793.5	668.3	548.5	437.3	342.7	281.5	241.8	220.2	218.0
20°	947.6	896.7	762.5	617.9	476.9	358.0	268.0	218.4	192.3	180.1	178.8
22.5°	956.1	892.2	730.0	561.2	406.7	291.4	221.1	185.6	171.6	165.7	164.8
25°	970.1	892.6	698.5	503.1	342.3	242.7	191.4	169.3	161.7	157.6	157.6
27.5°	990.4	898.0	667.4	444.1	287.8	209.4	173.8	160.8	155.8	152.7	151.8
30°	1020.1	907.9	634.6	388.2	244.5	186.5	163.5	155.4	151.3	148.6	148.2
32.5°	1063.3	925.5	599.9	337.3	211.7	170.2	155.8	150.9	147.7	145.5	145.0
35°	1127.7	956.6	566.1	294.1	188.3	158.5	149.5	145.5	143.7	142.8	142.3
37.5°	1222.3	1006.6	534.1	260.3	172.9	150.9	143.2	141.0	140.1	140.1	140.1
40°	1341.2	1072.3	505.3	236.4	164.4	145.0	138.7	136.9	136.9	137.4	137.4
42.5°	1485.8	1154.7	480.5	220.2	159.4	141.0	135.6	134.7	134.2	134.2	134.7
45°	1653.7	1252.0	465.2	207.6	155.8	138.7	133.3	132.9	131.1	130.2	130.2
47.5°	1822.6	1356.1	464.3	200.4	151.3	136.0	131.1	131.1	127.5	125.7	126.1
50°	1980.3	1449.3	474.2	198.6	148.6	132.0	128.8	129.3	124.3	122.0	121.6
52.5°	2107.3	1520.4	486.4	200.9	148.6	128.4	124.8	127.0	121.6	118.9	118.4
55°	2205.4	1570.0	490.9	205.8	150.4	125.2	121.1	124.8	120.7	117.1	117.1
57.5°	2275.7	1585.7	471.5	208.1	153.1	124.8	117.5	124.3	122.0	117.5	117.5
60°	2250.0	1494.3	399.5	199.5	152.7	123.9	114.8	125.2	126.6	121.6	121.6
62.5°	2049.6	1250.2	320.7	180.1	145.0	120.7	111.7	124.3	129.7	127.9	127.0
65°	1668.6	916.9	248.6	157.2	132.0	113.9	104.9	116.2	122.5	124.3	124.8
67.5°	1175.9	580.5	193.2	133.8	115.7	104.0	97.3	102.7	104.9	105.8	107.6
70°	643.1	314.4	153.6	112.6	99.1	94.1	89.2	89.6	88.7	87.8	88.7
72°	322.9	205.4	129.7	97.7	87.8	84.7	82.4	81.1	81.1	79.7	80.2
72.5°	277.9	191.0	125.2	94.1	85.1	82.4	80.6	79.3	78.8	77.9	78.4
75°	185.1	151.3	104.5	78.8	72.5	70.7	71.6	70.3	70.7	69.8	70.3
77.5°	149.5	130.2	88.7	66.7	62.2	59.4	61.2	61.7	62.6	61.7	61.2
80°	125.2	110.8	74.3	54.9	51.8	49.5	50.4	53.6	54.0	51.3	50.9
82.5°	81.1	89.2	58.5	42.8	39.6	38.7	41.0	44.1	45.0	41.4	40.5
85°	68.0	71.6	42.3	29.3	26.1	25.2	29.7	32.9	35.1	31.5	30.6
87.5°	18.9	35.1	20.7	14.0	11.7	11.7	14.4	17.1	20.3	20.7	20.7
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)