

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: P198700

Luminaire Tested: **XNV-AF-01-LED-U-SL2-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198700
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-SL2-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 800mA 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: 4900.9 lumens
Efficiency: N/A
Efficacy: 111.4 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

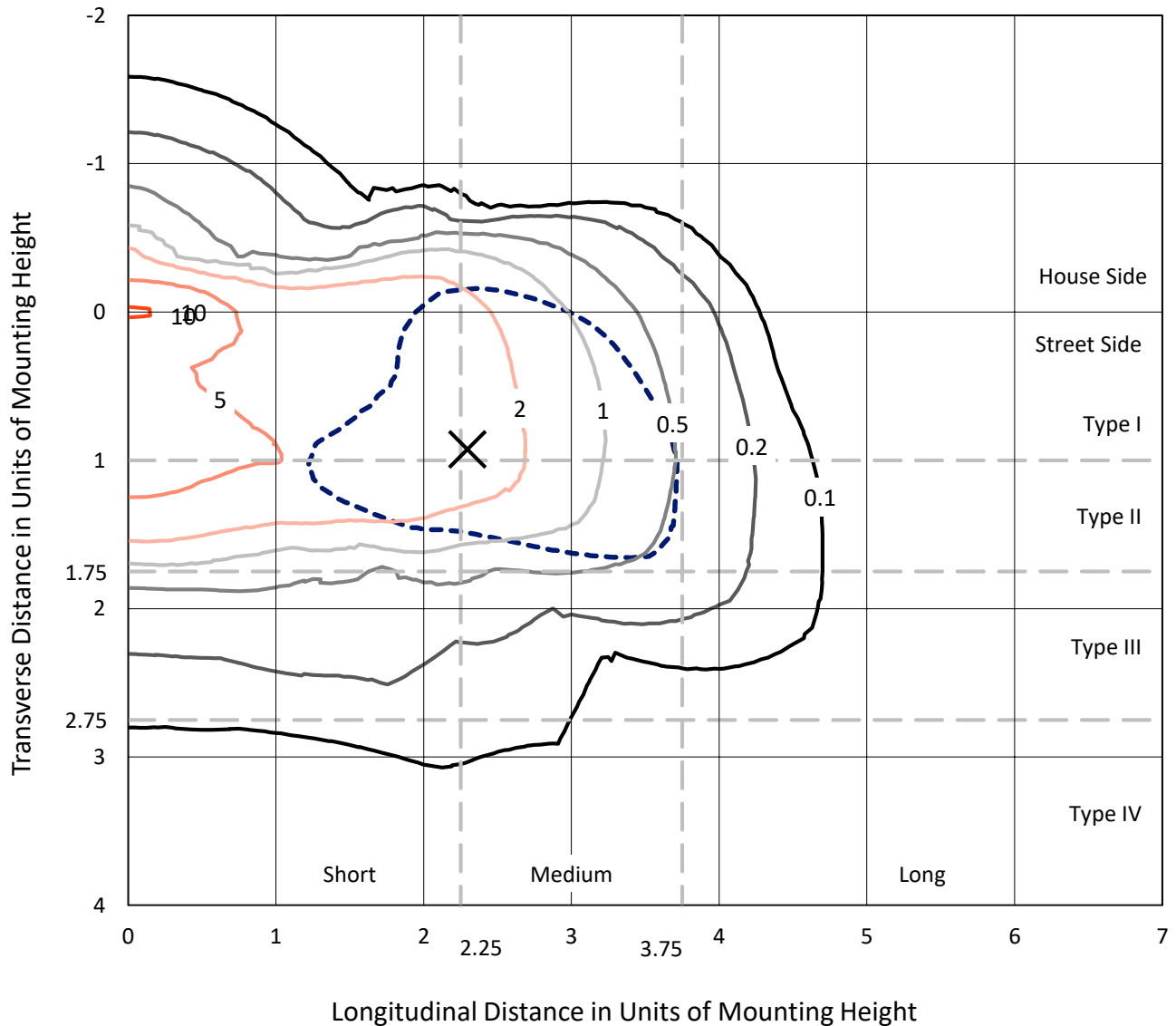
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P198700
 CATALOG NUMBER: XNV-AF-01-LED-U-SL2-800

Iso-Footcandle Lines of Horizontal Illumination

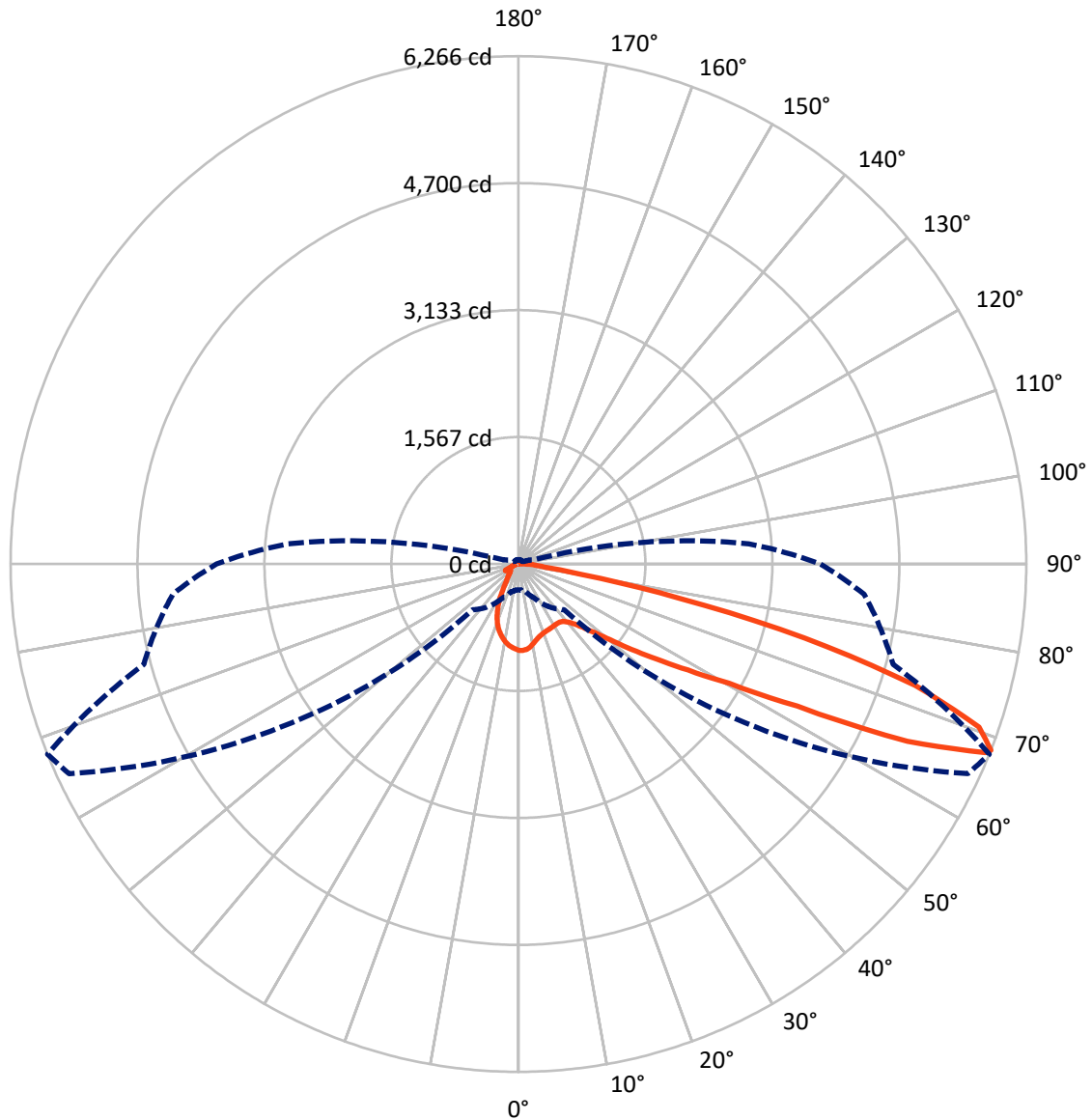
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Medium - Semi-Cutoff

REPORT NUMBER: P198700
CATALOG NUMBER: XNV-AF-01-LED-U-SL2-800

Luminous Intensity Polar Plot



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



REPORT NUMBER: P198700

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-800

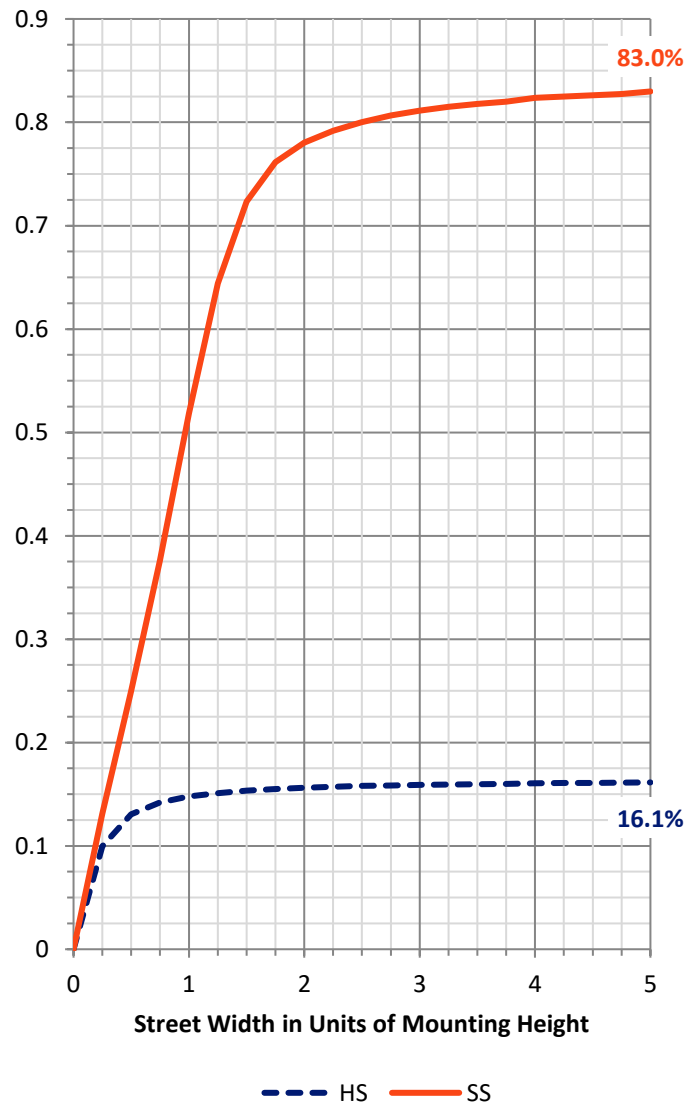
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	801.8	0.0	801.8
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	4099.1	0.0	4099.1
	% Fixture	83.6	0.0	83.6
Total	Lumens	4900.9	0.0	4900.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	1.9
10°-20°	211.9	4.3
20°-30°	286.6	5.8
30°-40°	404.1	8.2
40°-50°	664.5	13.6
50°-60°	1030.1	21.0
60°-70°	1335.6	27.3
70°-80°	766.4	15.6
80°-90°	110.3	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°	4900.9	100.0
0°-180°	4900.9	100.0



REPORT NUMBER: P198700

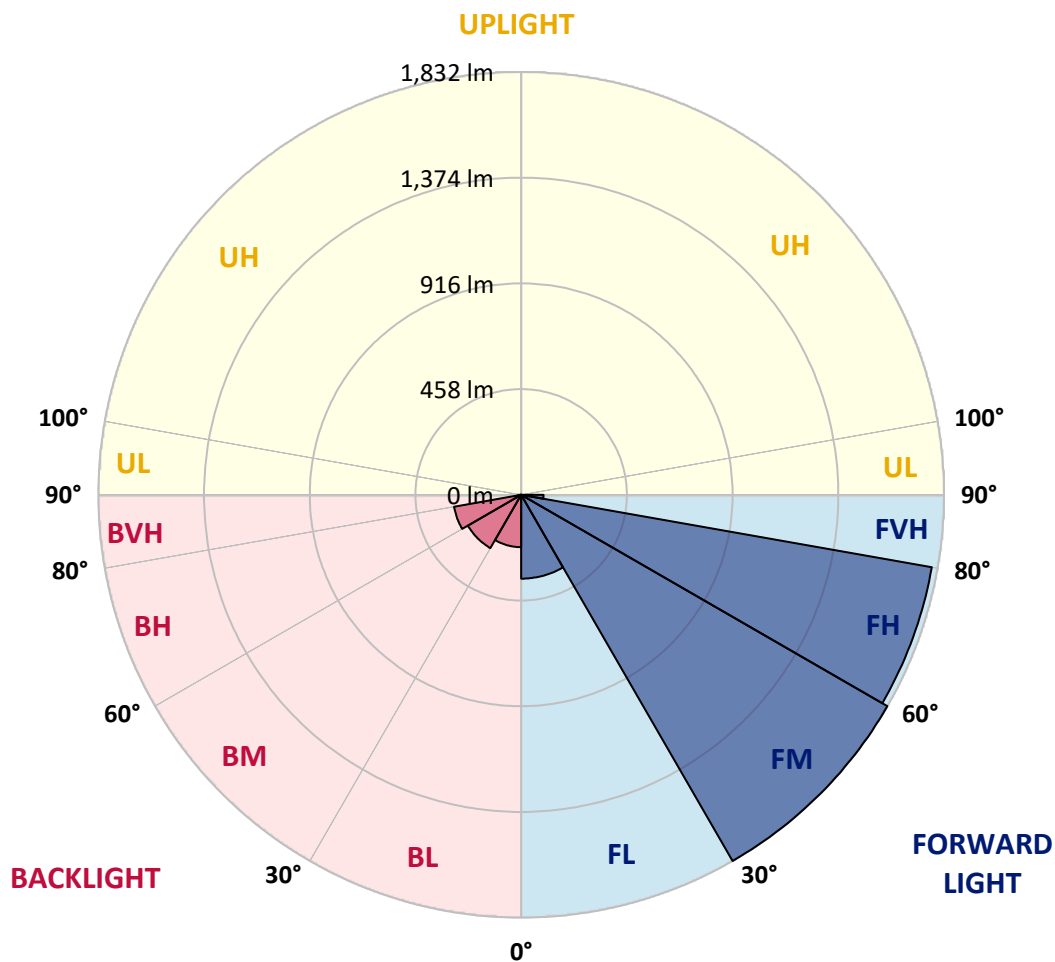
CATALOG NUMBER: XNV-AF-01-LED-U-SL2-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	363.2	7.4			
FM	(30°-60°)	1832.1	37.4			
FH	(60°-80°)	1806.7	36.9			G2/5000
FVH	(80°-90°)	97.1	2.0			G1/100
BL	(0°-30°)	226.7	4.6	B1/500		
BM	(30°-60°)	266.7	5.4	B1/1000		
BH	(60°-80°)	295.3	6.0	B1/500		G1/500
BVH	(80°-90°)	13.1	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 II Medium





REPORT NUMBER: P198700

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4
2.5°	1037.9	1046.3	1046.3	1052.3	1057.7	1062.2	1066.1	1066.1	1066.1	1063.6	1061.3
5°	928.7	940.0	941.5	956.9	977.1	1001.8	1029.3	1053.6	1058.4	1067.3	1070.9
7.5°	852.8	856.4	862.4	873.0	893.5	923.9	967.2	1021.6	1034.7	1062.8	1077.6
10°	799.1	802.0	807.1	817.6	836.3	863.8	906.3	977.1	998.8	1048.8	1077.9
12.5°	759.7	762.0	766.7	776.3	795.2	819.9	863.5	937.0	963.9	1034.7	1082.4
15°	729.0	732.8	736.6	745.9	765.2	788.8	833.0	908.0	937.0	1023.5	1090.8
17.5°	716.8	718.7	719.3	724.1	741.4	765.5	809.7	887.4	917.6	1014.6	1097.1
20°	724.5	724.8	718.4	715.2	725.2	747.3	790.1	872.1	902.9	1006.6	1099.7
22.5°	758.1	758.1	741.4	727.4	720.7	734.4	777.0	861.5	894.8	1000.4	1099.7
25°	822.1	819.3	793.3	765.5	735.7	730.0	768.6	854.8	888.7	997.3	1095.6
27.5°	906.3	903.8	870.8	829.5	775.7	739.5	765.8	849.4	882.6	992.5	1086.6
30°	1008.7	1006.6	969.0	914.9	835.5	770.0	772.5	845.5	877.8	984.5	1071.5
32.5°	1110.9	1109.6	1079.8	1024.5	918.2	821.5	790.1	844.9	875.2	974.9	1053.2
35°	1213.6	1213.6	1195.4	1148.7	1029.3	899.0	827.0	856.7	880.0	969.8	1037.6
37.5°	1365.4	1359.3	1325.4	1277.1	1169.1	999.5	886.5	881.7	898.7	978.4	1032.5
40°	1600.4	1582.8	1498.0	1416.7	1321.9	1128.2	973.5	930.1	940.3	1007.8	1044.6
42.5°	1846.3	1818.4	1706.1	1576.1	1479.7	1287.0	1087.8	1008.4	1008.1	1064.8	1083.4
45°	2057.3	2042.8	1921.2	1756.3	1659.9	1465.6	1232.2	1125.0	1113.5	1153.2	1158.0
47.5°	2179.9	2170.3	2096.9	1947.1	1873.8	1676.6	1415.4	1286.7	1264.9	1288.6	1281.2
50°	2145.9	2155.3	2134.1	2057.6	2103.7	1973.1	1648.8	1508.2	1466.9	1490.6	1472.6
52.5°	1967.3	1992.3	2011.1	2025.9	2235.9	2369.8	1942.0	1784.8	1750.6	1746.4	1729.1
55°	1645.5	1685.2	1744.7	1853.0	2200.4	2688.2	2454.3	2119.3	2069.4	2043.1	2049.9
57.5°	1119.8	1180.1	1308.5	1514.3	2015.6	2824.0	3211.7	2551.5	2467.1	2373.6	2395.3
60°	616.9	667.2	819.9	1027.3	1594.0	2803.8	3883.0	3254.0	2987.9	2740.1	2785.0
62.5°	399.3	410.1	523.8	701.7	978.4	2475.3	4256.0	4427.9	3864.2	3223.5	3286.6
65°	320.8	328.5	384.2	566.0	681.6	1592.4	4272.7	5645.8	5274.0	3880.5	3882.4
67.5°	313.4	316.9	349.2	476.1	639.3	867.0	3693.2	6125.9	6212.1	4655.9	4280.9
68°	317.9	322.0	354.8	461.4	639.0	799.1	3413.4	6118.6	6266.2	4785.6	4280.9
70°	280.5	285.6	361.7	477.3	611.8	687.0	2337.3	5793.7	6031.2	5083.6	4062.0
72.5°	146.6	142.5	178.9	376.9	688.7	715.9	1234.8	4840.3	5117.5	4708.0	3509.4
75°	114.3	104.0	100.2	148.8	605.7	742.5	717.1	3440.3	3649.7	3393.8	2345.7
77.5°	107.6	95.0	87.8	88.1	266.7	772.5	580.1	2024.6	2024.6	1619.0	748.5
80°	86.4	74.9	70.1	80.0	128.7	712.0	605.4	922.7	787.0	418.4	206.1
82.5°	57.0	50.9	51.2	65.0	97.7	475.4	701.1	455.5	342.3	185.4	121.3
85°	36.2	31.1	34.6	45.4	73.0	212.0	694.1	316.6	226.7	104.0	60.5
87.5°	18.2	14.1	17.3	23.7	44.5	60.9	571.4	282.6	168.1	43.2	32.9
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: P198700

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4	1066.4
2.5°	1061.3	1054.3	1050.7	1044.9	1037.9	1030.8	1026.0	1023.9	1022.5	1023.2	1022.8
5°	1069.0	1059.7	1044.6	1023.2	1001.1	977.7	959.8	946.0	937.4	934.9	934.2
7.5°	1074.7	1061.3	1033.1	994.0	956.3	915.3	880.4	852.5	833.7	825.0	824.7
10°	1073.8	1056.5	1012.0	954.3	899.0	838.8	784.0	737.3	703.4	687.0	686.4
12.5°	1074.7	1051.1	986.0	908.0	828.5	742.5	661.1	588.4	537.9	513.8	512.9
15°	1078.6	1045.3	959.4	856.1	746.2	624.6	508.4	417.2	371.0	355.4	355.4
17.5°	1078.3	1035.6	928.7	795.9	648.7	485.7	347.1	290.7	286.2	300.6	302.9
20°	1071.8	1020.3	889.0	724.5	534.0	336.1	235.3	227.3	263.2	302.9	307.3
22.5°	1061.9	1000.4	843.2	641.6	400.5	219.0	181.5	193.6	242.3	291.6	298.7
25°	1048.1	976.4	790.7	545.2	266.4	157.5	151.4	166.4	200.7	233.7	238.9
27.5°	1028.0	946.0	733.5	440.8	170.0	129.6	131.9	142.5	157.2	171.2	174.2
30°	1002.7	910.5	671.1	325.3	129.0	115.9	119.7	126.1	132.6	141.5	143.4
32.5°	977.1	874.3	606.0	223.4	112.7	108.5	112.3	115.9	121.3	127.5	128.7
35°	954.0	840.7	539.1	155.9	105.7	103.7	105.7	107.9	113.3	119.4	120.1
37.5°	937.4	813.1	469.3	123.3	101.5	99.5	100.6	101.5	107.9	116.8	117.8
40°	935.2	794.9	398.5	110.8	98.3	95.7	95.0	95.7	104.0	114.3	115.3
42.5°	956.9	795.9	329.4	105.7	95.7	92.9	90.3	91.6	98.9	106.9	107.6
45°	1008.4	818.3	269.5	103.4	93.5	91.2	87.4	88.1	91.6	95.7	96.4
47.5°	1099.4	867.3	223.8	102.1	91.6	89.6	84.8	83.0	83.3	85.5	85.5
50°	1244.7	949.2	195.9	100.9	89.9	86.4	81.0	77.1	76.2	77.4	77.7
52.5°	1461.5	1089.7	182.5	98.3	87.1	82.2	76.2	72.3	70.8	72.0	72.0
55°	1754.4	1314.2	176.0	94.7	83.6	77.1	71.7	68.5	67.2	68.2	68.2
57.5°	2088.4	1605.8	187.0	89.9	79.1	71.7	67.8	65.7	64.7	65.7	66.0
60°	2485.0	1987.5	261.9	83.9	74.3	66.9	64.7	63.4	62.7	63.7	63.7
62.5°	3012.3	2495.2	405.3	79.1	69.2	62.4	61.8	61.2	60.5	61.5	61.5
65°	3581.5	2957.1	417.2	76.2	64.7	58.6	58.9	58.9	58.3	59.2	59.2
67.5°	3762.7	2917.1	233.0	72.6	59.2	54.7	56.1	56.1	55.8	56.7	56.4
68°	3724.3	2853.7	203.0	71.7	58.3	53.8	55.0	55.3	55.0	56.1	55.8
70°	3438.0	2505.4	133.5	66.3	54.1	50.5	52.5	52.8	52.5	53.8	53.5
72.5°	2838.1	1879.3	98.6	57.9	49.0	46.4	48.4	48.7	49.0	50.2	49.9
75°	1802.4	1037.9	77.7	49.3	43.9	41.6	43.6	44.5	45.1	47.1	46.1
77.5°	493.7	315.1	63.1	41.9	37.7	36.8	38.1	39.4	40.0	42.2	40.6
80°	172.9	139.2	52.5	35.5	31.4	31.1	32.3	33.7	34.3	36.2	34.3
82.5°	105.1	90.9	41.9	27.8	24.7	24.3	25.9	27.2	27.8	27.8	26.6
85°	54.7	48.0	30.7	19.5	17.0	16.0	18.9	20.5	20.8	20.5	19.5
87.5°	30.7	27.2	16.4	9.3	7.7	8.0	9.9	12.2	13.1	12.8	12.2
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)