

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: P198624

Luminaire Tested: **XNV-AF-01-LED-U-T3R-7030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198624  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24250)  
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-T3R-7030-1200  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5974 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Full 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

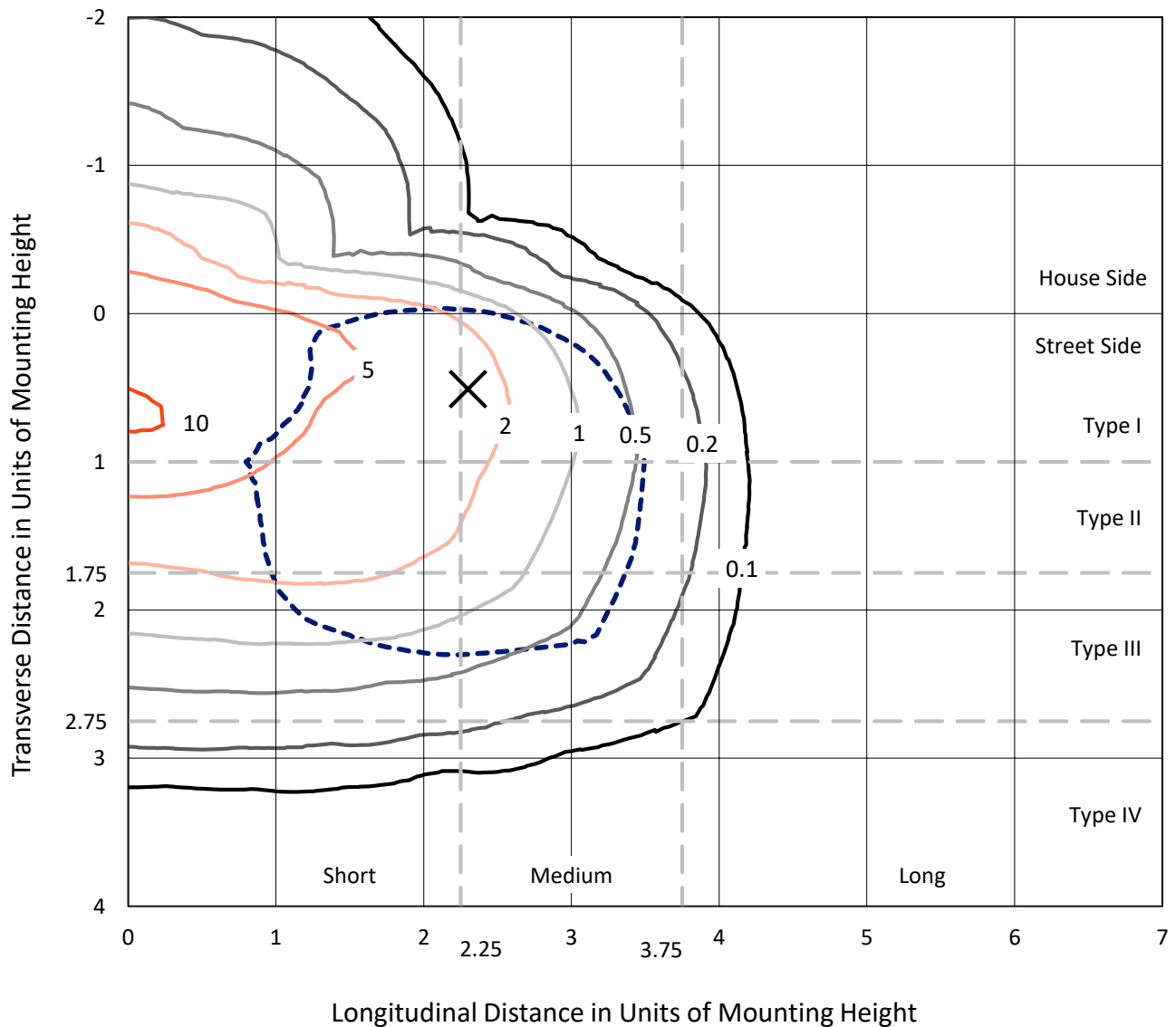


REPORT NUMBER: P198624

CATALOG NUMBER: XNV-AF-01-LED-U-T3R-7030-1200

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

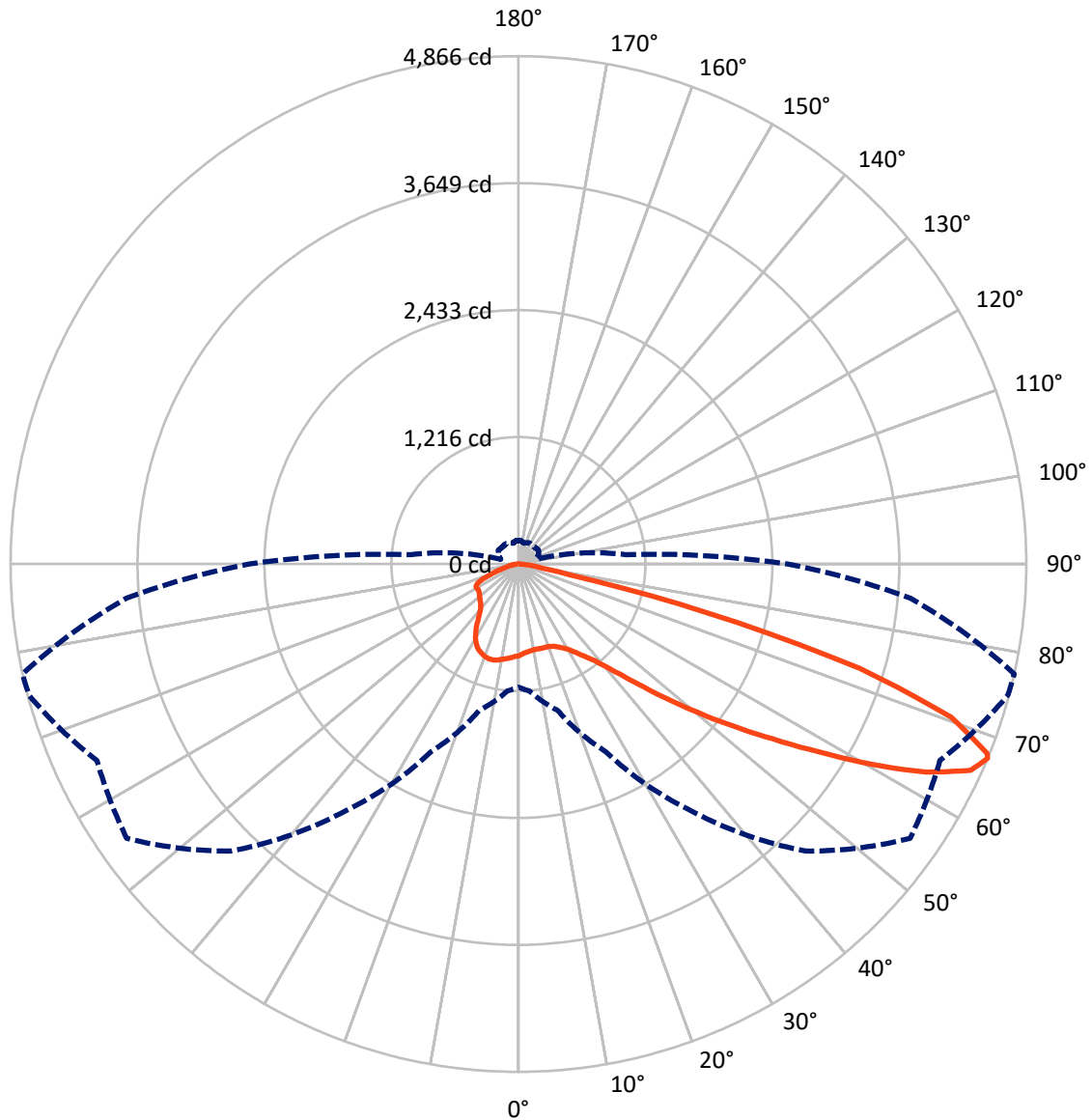


Based on 10 foot mounting height. Maximum calculated value = 10.6 fc  
 Type III - Medium - Full Cutoff

REPORT NUMBER: P198624

CATALOG NUMBER: XNV-AF-01-LED-U-T3R-7030-1200

### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P198624

CATALOG NUMBER: XNV-AF-01-LED-U-T3R-7030-1200

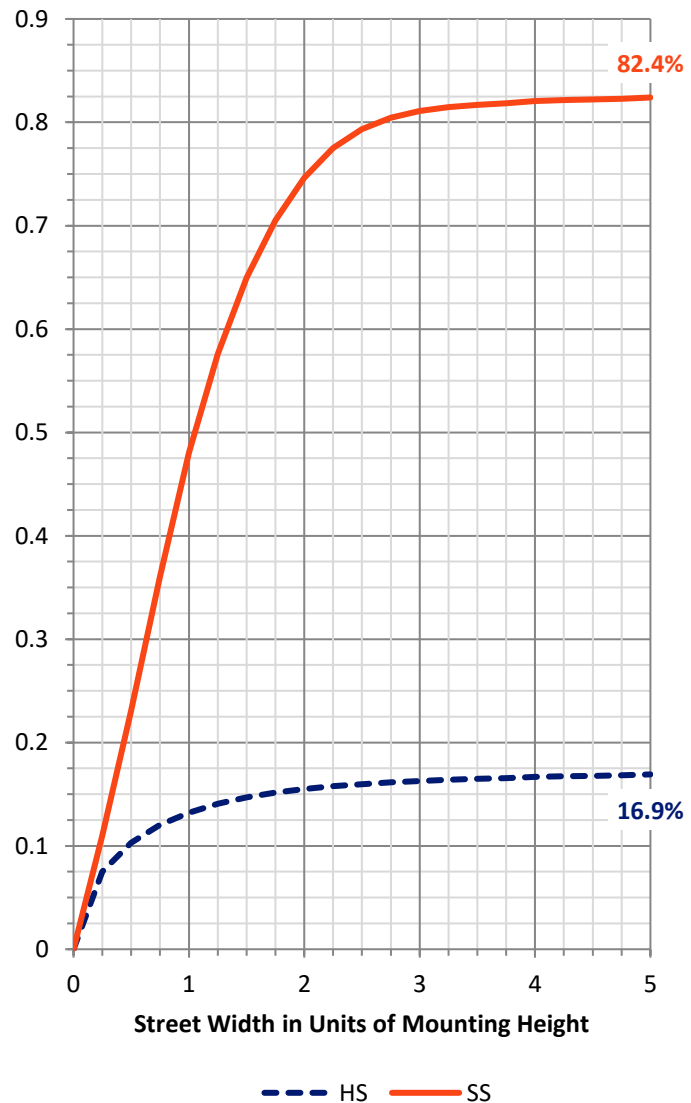
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1026.6	0.0	1026.6
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	4947.4	0.0	4947.4
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	5974.0	0.0	5974.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.3	1.3
10°-20°	216.9	3.6
20°-30°	368.5	6.2
30°-40°	589.5	9.9
40°-50°	907.5	15.2
50°-60°	1259.0	21.1
60°-70°	1679.5	28.1
70°-80°	799.3	13.4
80°-90°	75.7	1.3
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°	5974.0	100.0
0°-180°	5974.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P198624

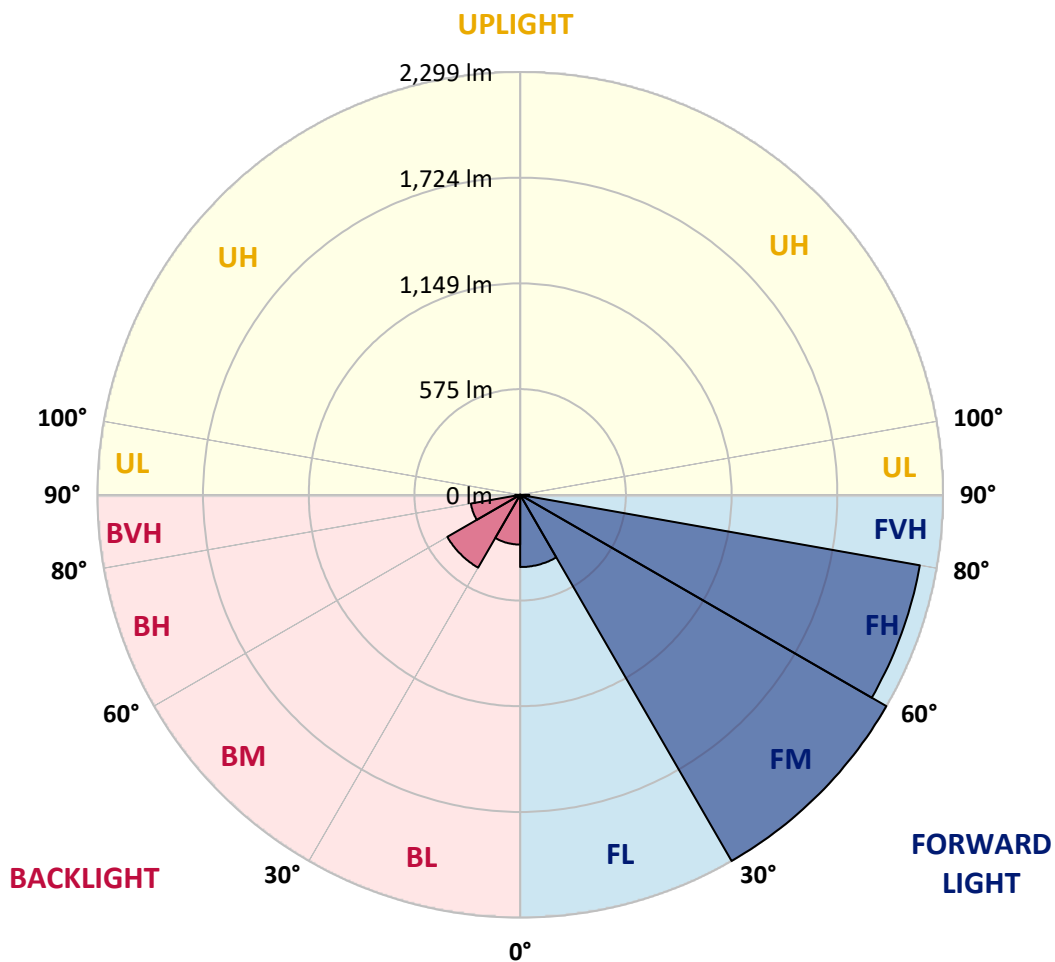
CATALOG NUMBER: XNV-AF-01-LED-U-T3R-7030-1200

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	392.8	6.6			
FM	(30°-60°)	2298.9	38.5			
FH	(60°-80°)	2206.5	36.9			G2/5000
FVH	(80°-90°)	49.2	0.8			G1/100
BL	(0°-30°)	270.8	4.5	B1/500		
BM	(30°-60°)	457.1	7.7	B1/1000		
BH	(60°-80°)	272.2	4.6	B1/500		G1/500
BVH	(80°-90°)	26.5	0.4			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





REPORT NUMBER: P198624

CATALOG NUMBER: XNV-AF-01-LED-U-T3R-7030-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2
2.5°	788.4	792.1	792.4	803.1	807.9	820.1	833.4	845.2	855.6	859.3	865.9
5°	709.4	709.4	710.5	717.5	731.1	750.7	778.4	808.7	840.4	848.2	867.8
7.5°	668.0	668.7	669.5	676.5	687.2	704.6	732.2	773.6	826.4	839.3	873.7
10°	671.7	670.6	666.9	665.4	669.8	680.9	704.9	747.4	814.6	834.5	884.4
12.5°	729.7	727.4	715.3	697.5	681.3	677.2	693.8	734.1	809.1	834.5	902.5
15°	829.0	830.5	806.5	769.5	727.1	698.3	696.1	729.3	807.2	836.8	923.5
17.5°	958.2	959.0	925.7	872.2	801.7	742.2	711.2	729.3	807.2	839.0	943.8
20°	1095.6	1090.4	1052.8	985.6	894.0	803.1	738.9	733.7	809.4	842.3	963.0
22.5°	1213.4	1208.6	1169.1	1098.6	993.7	875.2	776.2	748.5	821.6	856.0	990.0
25°	1316.4	1319.4	1281.0	1201.6	1093.0	956.4	832.0	782.5	847.1	880.7	1023.2
27.5°	1441.6	1436.1	1391.8	1316.1	1195.3	1040.6	901.7	825.3	877.4	910.6	1063.8
30°	1586.4	1583.8	1523.9	1446.0	1307.9	1134.7	970.8	871.5	916.9	951.6	1114.8
32.5°	1762.1	1761.8	1697.5	1601.9	1434.6	1241.1	1052.4	934.6	974.5	1009.6	1182.4
35°	1961.2	1960.8	1894.3	1768.0	1580.4	1358.9	1148.4	1011.4	1045.8	1082.7	1262.9
37.5°	2099.3	2097.0	2062.3	1939.7	1741.8	1495.9	1268.4	1114.8	1126.6	1168.0	1360.0
40°	2125.8	2139.1	2169.1	2096.7	1918.0	1648.0	1388.8	1226.0	1237.0	1290.2	1482.2
42.5°	2097.0	2114.4	2213.7	2234.0	2094.1	1832.3	1539.5	1379.9	1394.0	1460.1	1625.9
45°	2071.9	2087.1	2211.5	2310.1	2268.0	2033.2	1727.4	1567.9	1594.5	1676.5	1789.8
47.5°	2029.1	2043.1	2167.9	2323.8	2367.3	2226.7	1953.8	1793.9	1839.7	1939.0	1976.7
50°	2026.9	2033.2	2108.5	2278.0	2401.7	2373.6	2204.5	2058.3	2128.4	2242.9	2183.5
52.5°	1970.8	2014.7	2083.0	2204.9	2402.4	2459.3	2451.5	2348.1	2456.3	2583.0	2410.2
55°	1627.3	1677.9	1998.1	2169.1	2398.0	2532.8	2677.2	2656.5	2825.6	2958.9	2664.2
57.5°	1519.5	1540.9	1752.9	2179.8	2434.9	2654.3	2902.8	2987.7	3248.0	3393.5	2968.9
60°	1490.0	1512.5	1703.8	2184.9	2535.0	2875.5	3208.9	3361.8	3744.7	3899.1	3314.9
62.5°	1457.1	1486.3	1707.5	2189.7	2710.8	3202.6	3615.1	3767.6	4254.7	4392.4	3639.1
65°	1361.1	1399.9	1639.2	2159.5	2903.1	3613.2	4152.0	4190.8	4676.0	4763.5	3834.8
67°	1179.1	1221.5	1451.6	1984.4	2885.4	3889.8	4581.4	4455.5	4855.1	4865.8	3771.3
67.5°	1121.5	1165.4	1388.1	1911.7	2834.8	3926.0	4657.5	4492.1	4853.6	4841.8	3712.2
70°	755.1	804.6	983.0	1403.6	2273.9	3653.9	4639.1	4379.5	4535.3	4399.8	3189.3
72.5°	374.8	376.3	490.4	768.8	1377.7	2620.7	3869.9	3746.5	3676.4	3420.5	2340.4
75°	180.6	183.9	231.5	339.7	580.9	1353.0	2639.1	2528.0	2152.4	1863.7	1171.3
77.5°	137.7	141.1	179.8	221.2	242.2	441.3	1307.2	1056.5	623.7	498.1	330.1
80°	106.3	112.6	151.8	169.9	160.3	176.9	411.0	323.5	242.6	222.7	163.6
82.5°	83.1	86.8	128.9	128.9	110.8	118.5	191.3	186.8	150.7	135.9	87.9
85°	58.7	66.1	103.8	96.0	72.7	73.5	114.5	109.7	77.5	62.4	34.3
87.5°	26.2	33.6	73.9	62.8	38.8	29.9	46.9	40.2	30.6	23.6	15.9
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: P198624

CATALOG NUMBER: XNV-AF-01-LED-U-T3R-7030-1200

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2
2.5°	873.3	879.2	888.4	894.0	901.4	904.3	907.3	912.4	916.5	915.4	913.6
5°	881.4	891.4	902.8	906.5	906.5	902.8	900.6	901.0	899.9	899.2	896.9
7.5°	893.2	906.9	915.0	911.3	899.9	885.5	871.8	863.7	856.0	851.2	852.6
10°	909.9	925.0	925.4	909.1	881.8	850.4	823.5	806.1	789.5	782.1	784.3
12.5°	933.9	949.0	936.1	901.0	853.0	803.9	754.4	718.6	686.5	678.7	676.5
15°	959.7	971.5	942.7	883.6	811.6	730.8	647.7	594.1	558.3	552.0	549.8
17.5°	982.2	988.9	939.4	852.6	746.3	618.9	522.1	486.0	478.6	482.3	482.3
20°	1002.2	1000.0	925.0	804.6	643.3	494.8	438.7	438.3	448.3	457.5	458.3
22.5°	1027.3	1009.9	902.1	733.4	520.3	412.8	403.2	412.8	423.9	434.3	435.4
25°	1057.2	1021.0	871.5	631.8	418.4	374.8	378.9	387.0	394.0	402.1	402.5
27.5°	1087.1	1029.5	828.3	512.5	363.0	350.4	354.9	358.2	360.0	365.2	365.2
30°	1121.8	1036.2	765.9	410.6	337.5	329.0	326.4	325.0	326.4	333.4	333.8
32.5°	1165.4	1048.0	680.6	352.3	325.7	313.9	300.6	293.2	298.4	310.9	313.1
35°	1214.9	1062.0	578.3	329.0	321.6	306.5	282.1	270.7	272.5	284.0	285.8
37.5°	1276.9	1080.1	477.5	323.5	325.7	305.7	273.6	257.4	249.3	249.6	249.3
40°	1356.3	1098.2	397.7	325.0	334.6	307.6	269.6	244.1	227.1	227.8	229.3
42.5°	1439.4	1110.0	347.1	329.4	345.3	310.2	268.1	231.2	216.4	228.9	240.4
45°	1536.5	1106.7	320.9	333.4	353.4	311.3	262.5	229.7	217.5	255.2	276.6
47.5°	1648.0	1092.3	306.1	335.3	355.6	310.9	258.5	234.5	226.7	292.1	316.5
50°	1769.1	1069.8	294.3	332.3	354.5	309.4	262.9	240.4	230.4	300.2	319.0
52.5°	1901.7	1049.1	282.1	325.7	349.0	305.0	268.5	237.8	220.1	276.6	291.0
55°	2058.6	1044.3	268.5	314.2	339.7	300.2	265.5	229.7	208.6	245.2	254.1
57.5°	2238.1	1074.2	250.7	300.2	327.2	290.6	258.5	225.3	204.6	223.0	227.8
60°	2465.9	1140.3	231.9	285.4	311.7	276.2	252.2	226.4	205.7	219.7	220.8
62.5°	2643.9	1199.7	214.9	267.3	291.0	258.9	245.6	227.5	209.0	224.1	222.3
65°	2708.5	1170.6	193.9	240.4	261.8	239.7	236.3	228.2	209.0	226.7	222.7
67°	2576.0	1031.4	173.9	213.4	234.1	222.7	227.5	225.3	205.3	226.4	219.3
67.5°	2512.8	982.2	168.8	209.0	226.7	217.5	225.3	223.8	204.2	225.6	217.5
70°	2072.3	704.6	142.5	175.4	189.8	191.6	211.6	214.2	195.3	212.0	197.2
72.5°	1474.5	440.9	123.0	135.9	153.2	164.0	193.1	201.2	183.5	184.3	172.1
75°	729.7	236.7	109.7	104.9	119.3	136.6	168.4	183.5	166.2	153.6	149.6
77.5°	246.3	134.0	92.7	84.6	92.7	109.7	139.6	160.3	146.6	130.0	127.4
80°	127.4	97.5	72.4	67.9	73.1	84.9	109.3	133.3	125.2	125.9	103.8
82.5°	79.4	59.5	52.1	51.7	55.4	65.0	80.5	108.2	107.5	91.9	66.8
85°	36.9	34.3	33.2	34.3	35.4	36.9	52.4	77.2	81.6	49.5	43.9
87.5°	15.5	15.1	13.3	14.4	15.9	15.5	21.0	32.9	45.8	31.0	28.4
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)