

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: P198754

Luminaire Tested: **XNV-AF-01-LED-U-T2-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198754  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24136)  
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-T2-600  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3990.5 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

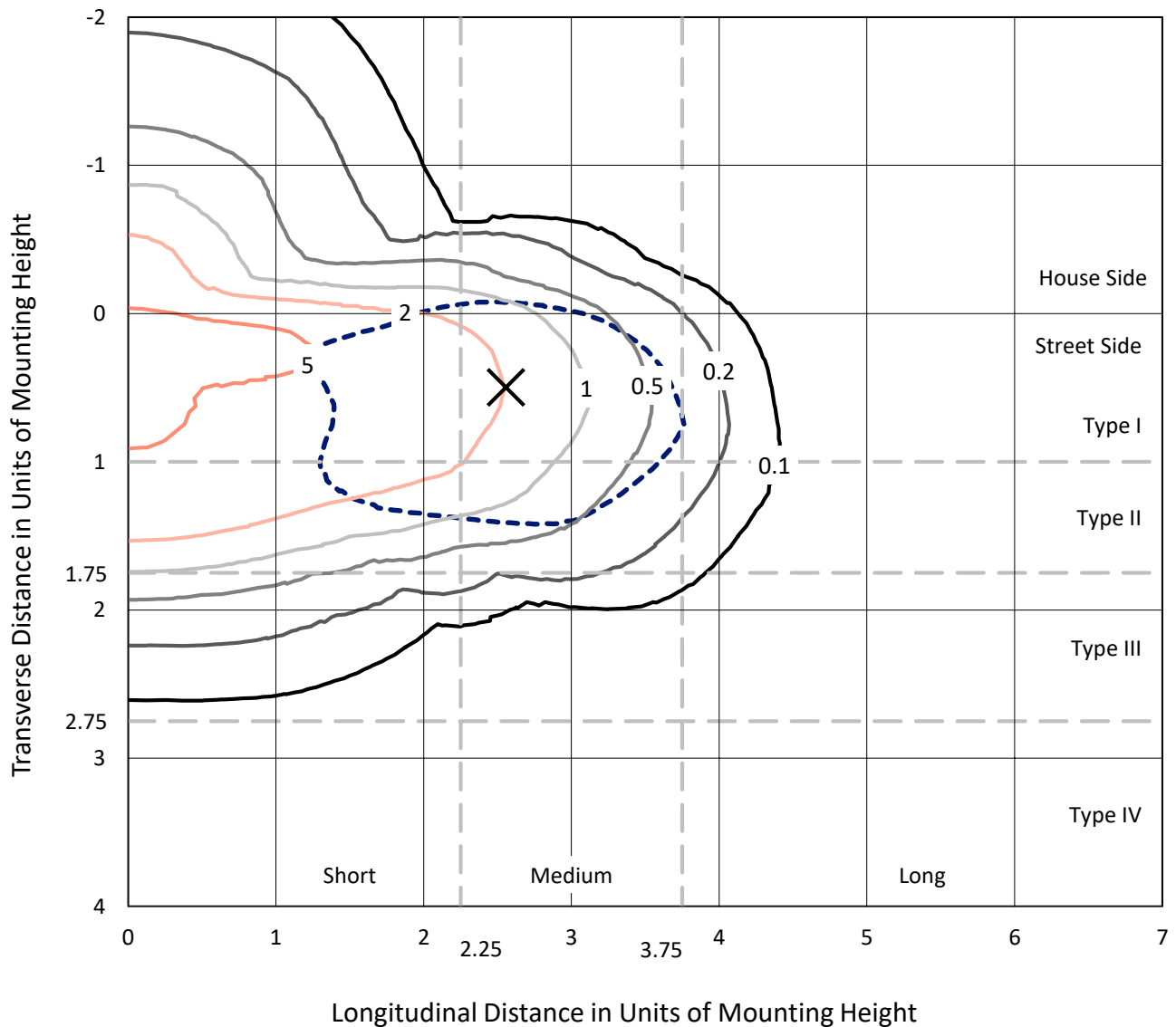


REPORT NUMBER: P198754

CATALOG NUMBER: XNV-AF-01-LED-U-T2-600

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

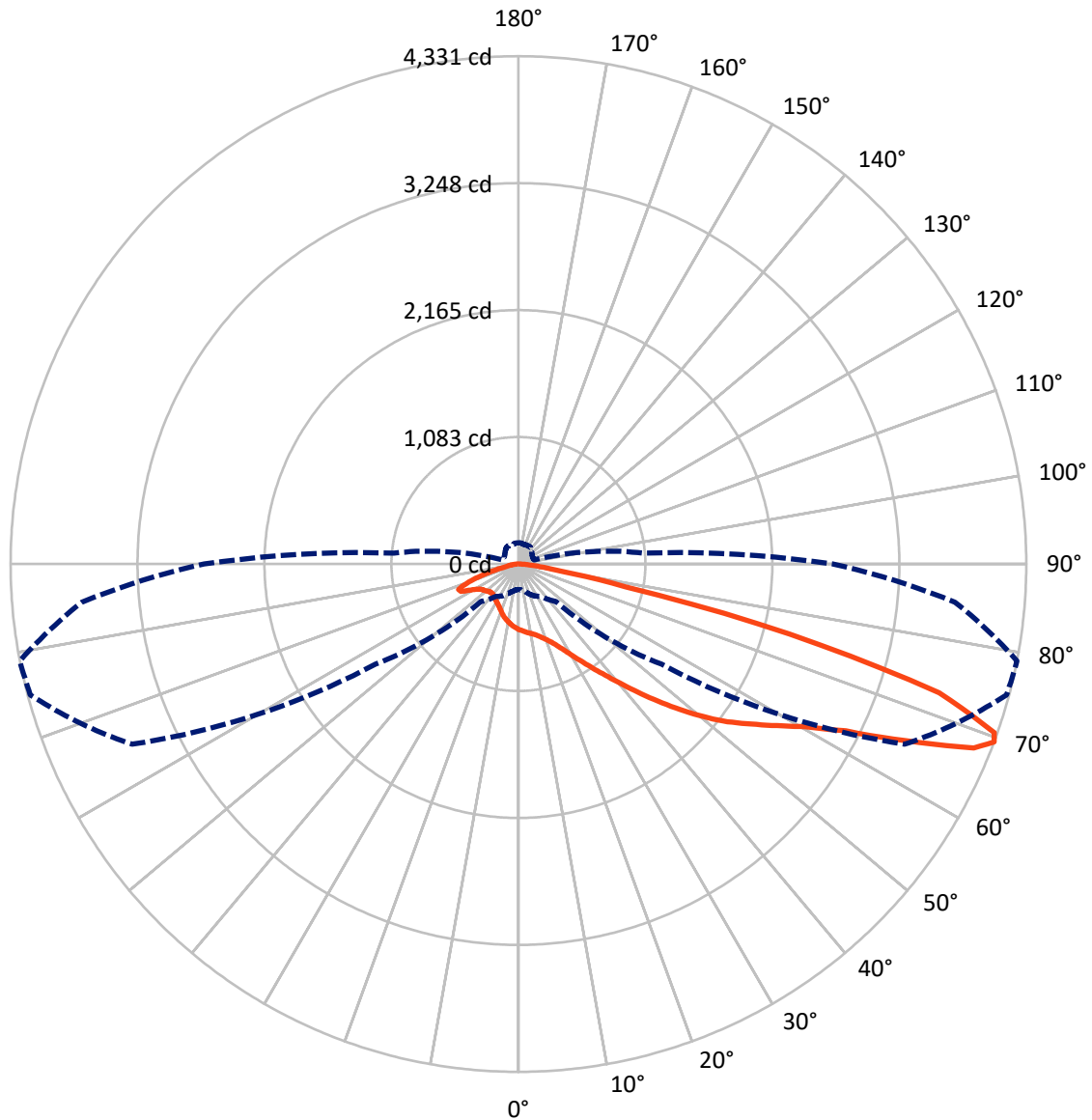


Based on 10 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P198754

CATALOG NUMBER: XNV-AF-01-LED-U-T2-600

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P198754

CATALOG NUMBER: XNV-AF-01-LED-U-T2-600

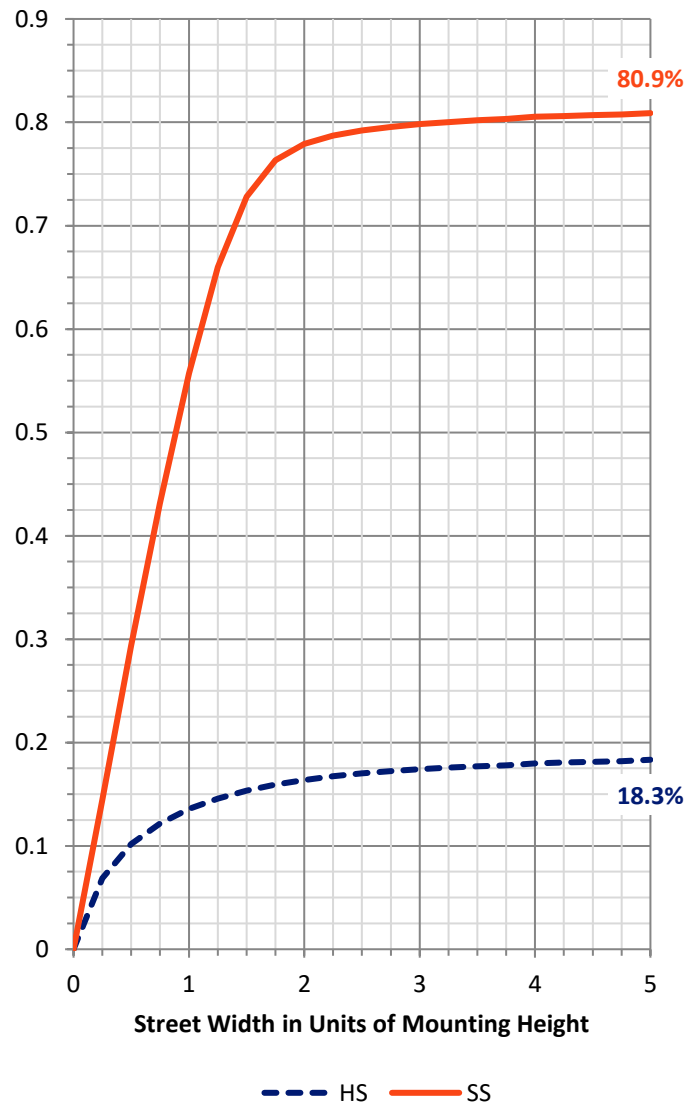
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	750.7	0.0	750.7
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	3239.8	0.0	3239.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	3990.5	0.0	3990.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.9	1.3
10°-20°	148.8	3.7
20°-30°	245.9	6.2
30°-40°	398.2	10.0
40°-50°	636.2	15.9
50°-60°	911.1	22.8
60°-70°	1015.1	25.4
70°-80°	507.8	12.7
80°-90°	75.4	1.9
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°	3990.5	100.0
0°-180°	3990.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P198754

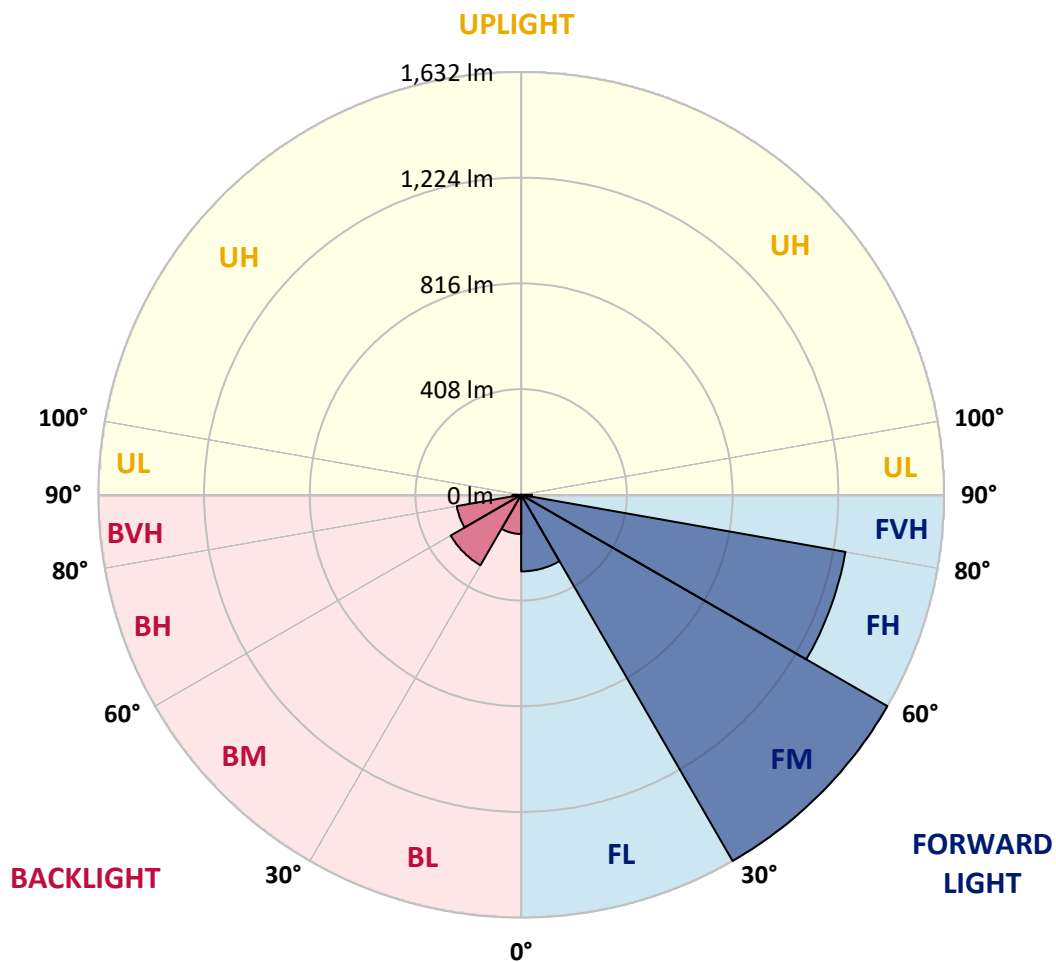
CATALOG NUMBER: XNV-AF-01-LED-U-T2-600

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	295.5	7.4			
FM (30°-60°)	1631.7	40.9			
FH (60°-80°)	1270.5	31.8			G1/1800
FVH (80°-90°)	42.1	1.1			G1/100
BL (0°-30°)	151.2	3.8	B1/500		
BM (30°-60°)	313.8	7.9	B1/1000		
BH (60°-80°)	252.4	6.3	B1/500		G1/500
BVH (80°-90°)	33.3	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium





REPORT NUMBER: P198754

CATALOG NUMBER: XNV-AF-01-LED-U-T2-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0
2.5°	614.8	613.6	613.3	609.4	607.2	602.8	592.4	581.6	571.7	566.5	561.1
5°	666.2	663.7	662.4	655.8	650.1	640.2	623.7	606.7	589.0	579.8	568.9
7.5°	697.3	697.6	697.6	692.3	686.6	674.6	653.8	630.4	604.2	592.1	574.9
10°	699.9	700.2	704.1	705.4	706.8	700.4	681.2	651.9	618.0	602.3	579.8
12.5°	674.1	675.9	682.4	691.8	705.1	712.0	703.6	674.8	635.7	616.6	589.2
15°	639.3	641.2	649.6	663.9	685.3	708.0	719.7	701.2	659.0	636.5	603.0
17.5°	622.4	624.5	630.2	641.7	662.6	693.2	728.3	729.5	686.4	660.5	619.5
20°	614.3	615.8	623.2	632.6	648.6	677.7	729.2	759.2	719.0	689.0	639.7
22.5°	632.8	633.3	637.0	642.2	652.9	675.4	728.6	790.0	759.7	724.8	665.4
25°	687.1	683.7	681.2	674.6	677.2	693.2	737.0	822.9	811.9	771.7	699.9
27.5°	751.4	750.8	744.1	729.0	719.2	729.5	760.8	859.7	875.9	831.6	745.1
30°	822.9	823.2	816.1	797.6	778.0	779.1	798.6	902.2	952.4	903.6	800.7
32.5°	897.8	902.5	889.5	870.9	847.2	839.6	852.9	953.7	1040.9	988.7	865.2
35°	987.4	988.2	973.7	946.6	922.9	910.8	923.1	1017.9	1142.9	1088.6	943.8
37.5°	1080.3	1080.8	1065.9	1031.2	1001.2	993.4	1007.0	1096.0	1251.1	1202.5	1036.1
40°	1156.2	1161.8	1150.0	1117.4	1087.1	1082.4	1102.0	1189.5	1389.2	1337.2	1146.1
42.5°	1242.5	1248.7	1234.6	1200.6	1176.6	1175.1	1205.6	1296.0	1526.4	1493.1	1270.6
45°	1339.6	1348.5	1328.8	1290.8	1270.4	1304.9	1306.6	1413.9	1684.7	1667.5	1410.9
47.5°	1445.5	1452.9	1436.9	1395.9	1373.7	1423.6	1405.6	1541.6	1855.7	1854.4	1562.6
50°	1527.3	1535.3	1536.9	1518.9	1495.7	1501.9	1514.2	1675.8	2026.2	2046.5	1719.4
52.5°	1512.4	1520.2	1555.5	1602.8	1640.1	1623.8	1638.8	1818.4	2191.0	2234.0	1868.5
55°	1392.3	1396.4	1462.5	1574.7	1733.8	1811.0	1812.1	1973.5	2347.6	2407.8	2010.0
57.5°	1175.9	1176.4	1262.3	1427.8	1679.2	1932.5	2085.7	2168.2	2510.9	2600.0	2185.4
60°	832.1	834.1	934.2	1150.5	1483.7	1917.8	2379.9	2516.8	2700.3	2815.9	2411.5
62.5°	494.0	498.7	574.1	747.7	1102.0	1729.8	2553.8	3136.8	2979.0	3132.6	2773.3
65°	321.4	325.3	370.4	457.7	651.1	1258.6	2496.6	3737.2	3506.7	3630.8	3293.4
67.5°	247.5	250.6	286.1	338.9	399.5	680.4	1996.2	3863.1	4149.0	4187.6	3732.2
69°	217.5	220.0	246.2	296.9	336.2	450.3	1487.6	3634.6	4309.5	4330.7	3737.8
70°	201.5	203.7	228.2	272.0	308.8	359.5	1138.5	3369.4	4250.8	4304.8	3629.9
72.5°	166.0	167.9	185.4	219.0	252.5	256.1	504.4	2460.3	3579.3	3752.1	3071.7
75°	138.6	139.6	151.2	175.7	204.4	203.9	257.7	1393.6	2184.1	2390.1	1896.7
77.5°	115.7	116.4	124.0	139.1	161.3	160.6	181.5	601.5	964.4	930.5	652.9
80°	102.1	102.6	106.5	110.5	124.5	123.8	134.4	276.2	392.4	362.6	246.9
82.5°	77.5	78.6	98.4	100.2	96.6	93.2	93.7	160.8	201.0	183.0	132.6
85°	43.9	44.1	63.2	73.9	84.1	63.2	60.9	83.1	99.2	87.0	58.0
87.5°	19.5	20.4	30.3	35.0	45.4	37.0	34.7	35.3	42.9	35.5	23.0
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: P198754

CATALOG NUMBER: XNV-AF-01-LED-U-T2-600

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0
2.5°	555.9	551.4	540.9	530.2	519.6	512.7	505.6	499.2	496.5	496.3	491.3
5°	558.1	547.7	524.0	497.9	473.0	453.8	437.5	427.1	417.0	415.1	410.7
7.5°	558.9	542.0	503.4	461.6	423.7	397.1	380.9	373.9	368.9	367.5	366.0
10°	558.7	534.7	480.4	423.2	380.1	360.0	354.0	355.6	357.6	358.7	358.7
12.5°	562.8	531.3	457.4	387.2	351.9	342.3	347.0	355.1	361.3	364.0	364.5
15°	570.4	529.2	432.1	355.9	332.0	334.4	346.0	357.6	366.5	370.4	371.5
17.5°	579.8	526.3	402.8	330.0	320.6	328.7	343.6	358.4	369.2	374.1	374.9
20°	590.2	522.1	372.6	310.7	310.4	320.6	335.4	352.2	363.7	369.2	368.9
22.5°	604.4	518.2	344.3	296.6	299.2	308.6	320.9	336.0	346.7	351.7	350.7
25°	623.2	514.5	319.1	284.1	286.4	292.7	301.3	312.7	320.3	322.9	321.1
27.5°	648.6	511.7	299.2	272.5	272.3	275.2	280.4	286.6	290.3	289.5	286.6
30°	679.5	508.8	284.6	262.4	258.7	258.5	260.9	264.4	266.8	262.1	259.7
32.5°	714.3	503.9	271.5	253.5	246.9	244.6	245.7	250.6	260.2	255.6	253.8
35°	755.2	498.1	258.5	243.9	238.9	234.5	235.2	245.9	275.2	271.8	270.0
37.5°	804.7	492.9	246.4	233.4	233.1	227.6	227.1	239.9	279.1	271.8	270.2
40°	863.9	491.8	235.8	221.9	226.1	224.0	222.2	230.0	257.4	242.5	239.7
42.5°	935.4	496.5	227.9	210.9	218.0	223.0	219.5	221.4	232.6	219.3	217.0
45°	1019.0	509.3	222.2	201.3	209.4	222.2	218.3	216.7	218.5	211.2	209.6
47.5°	1116.3	532.0	218.3	193.2	201.3	220.0	217.7	214.6	213.8	209.6	208.6
50°	1220.5	562.6	215.6	185.9	194.0	216.5	217.5	213.1	211.8	209.9	209.4
52.5°	1323.9	595.8	212.5	179.6	188.0	212.0	217.7	211.4	209.6	208.6	208.1
55°	1426.7	630.2	206.7	174.1	183.5	206.7	217.5	209.4	207.2	207.2	207.2
57.5°	1560.2	682.7	199.2	169.7	177.8	200.0	214.1	207.0	204.2	204.4	204.7
60°	1752.8	770.7	190.9	164.7	170.2	192.1	208.9	202.9	199.5	200.5	200.8
62.5°	2074.7	924.4	179.3	157.6	162.3	183.8	202.0	197.1	194.0	195.8	196.1
65°	2504.0	1110.6	164.2	148.8	154.3	174.4	193.4	190.4	186.9	191.4	191.1
67.5°	2765.8	1165.1	148.3	139.4	146.5	164.5	182.7	181.5	179.1	186.9	186.4
69°	2679.9	1066.4	139.1	133.4	141.0	157.6	175.9	175.4	173.6	181.2	180.7
70°	2546.5	974.4	133.4	129.5	138.1	153.5	171.5	171.5	169.7	176.3	174.9
72.5°	2045.5	722.6	120.1	119.6	128.2	142.0	159.5	160.8	159.8	162.1	160.8
75°	1200.9	435.5	107.0	108.6	116.2	129.7	146.2	147.2	146.2	146.0	146.2
77.5°	416.4	195.3	94.5	96.9	103.4	117.2	131.6	133.7	132.1	130.3	130.8
80°	163.0	113.5	80.9	84.3	89.8	103.1	116.9	118.3	115.9	115.7	113.5
82.5°	97.9	69.2	62.9	68.4	75.2	89.5	101.1	100.6	98.7	109.4	95.9
85°	42.6	38.4	45.9	51.5	54.8	67.1	85.4	83.1	78.6	69.2	67.6
87.5°	17.2	19.8	25.4	30.6	32.9	43.4	58.5	56.4	57.2	47.0	46.7
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)