

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: P271275

Luminaire Tested: **XNV-AF-01-LED-U-T4FT-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271275  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24256)  
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-T4FT-7027-800  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4279.2 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G1

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

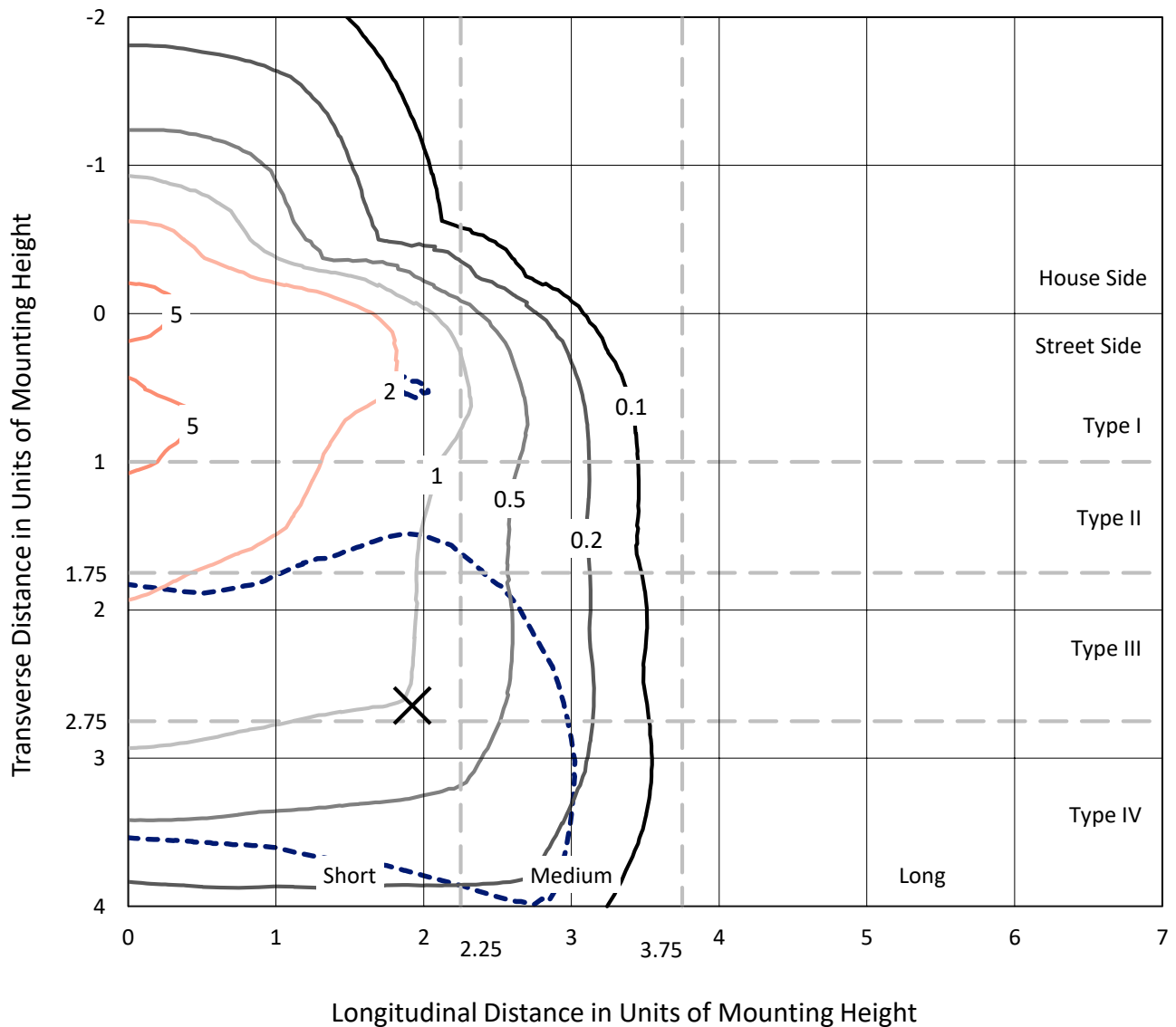


REPORT NUMBER: P271275

CATALOG NUMBER: XNV-AF-01-LED-U-T4FT-7027-800

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

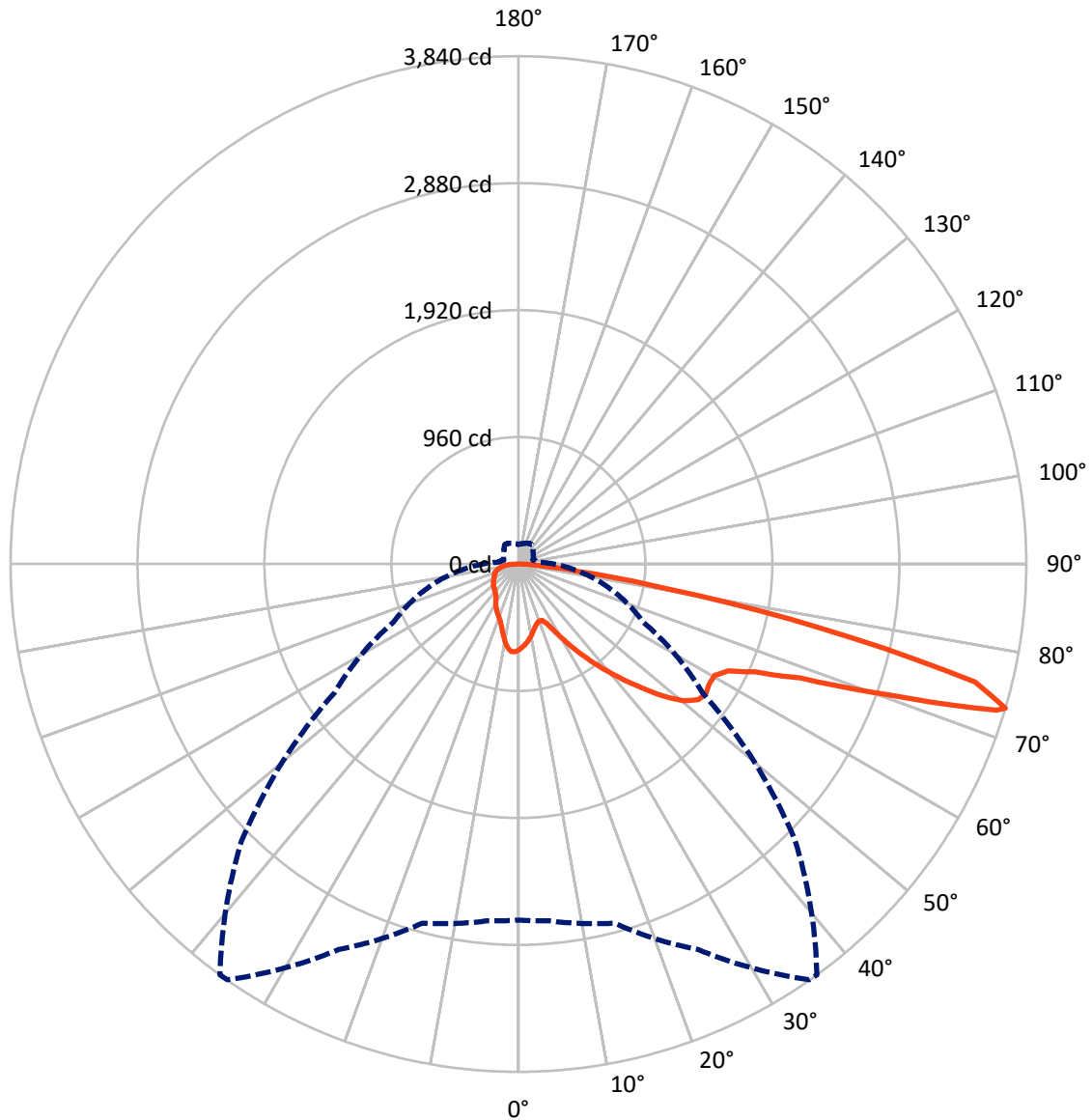


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P271275

CATALOG NUMBER: XNV-AF-01-LED-U-T4FT-7027-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P271275

CATALOG NUMBER: XNV-AF-01-LED-U-T4FT-7027-800

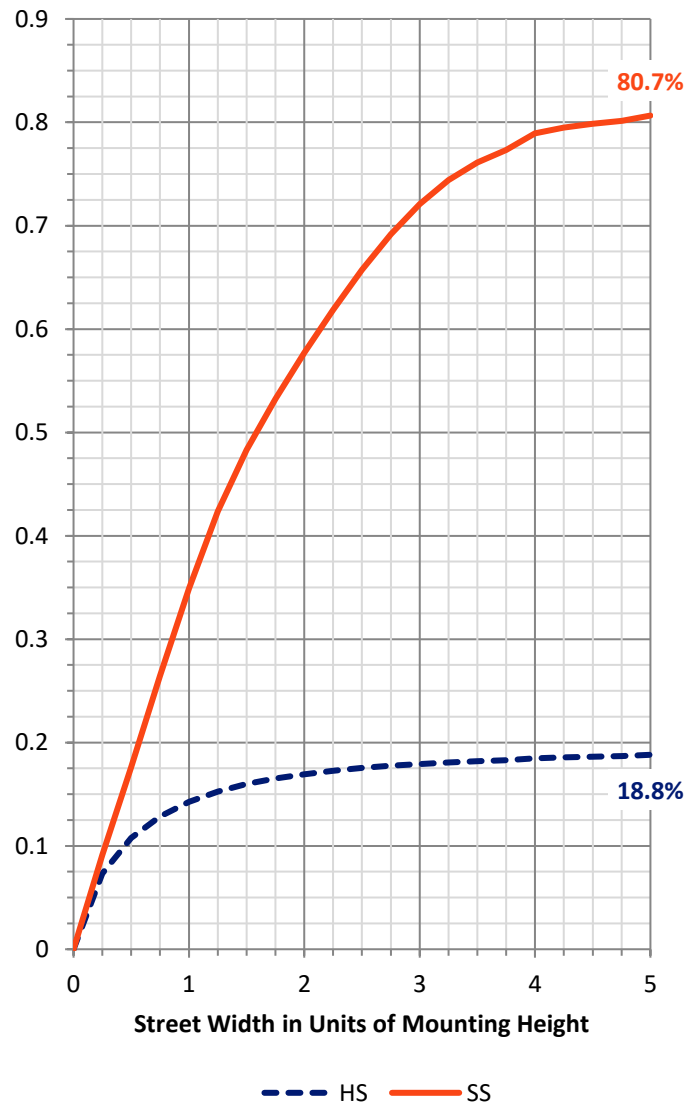
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	825.2	0.0	825.2
	% Fixture	19.3	0.0	19.3
<b>Street Side</b>	Lumens	3454.1	0.0	3454.1
	% Fixture	80.7	0.0	80.7
<b>Total</b>	Lumens	4279.2	0.0	4279.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.9	1.4
10°-20°	147.9	3.5
20°-30°	237.1	5.5
30°-40°	392.1	9.2
40°-50°	606.8	14.2
50°-60°	812.3	19.0
60°-70°	1061.1	24.8
70°-80°	866.7	20.3
80°-90°	96.5	2.3
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°	4279.2	100.0
0°-180°	4279.2	100.0



REPORT NUMBER: P271275

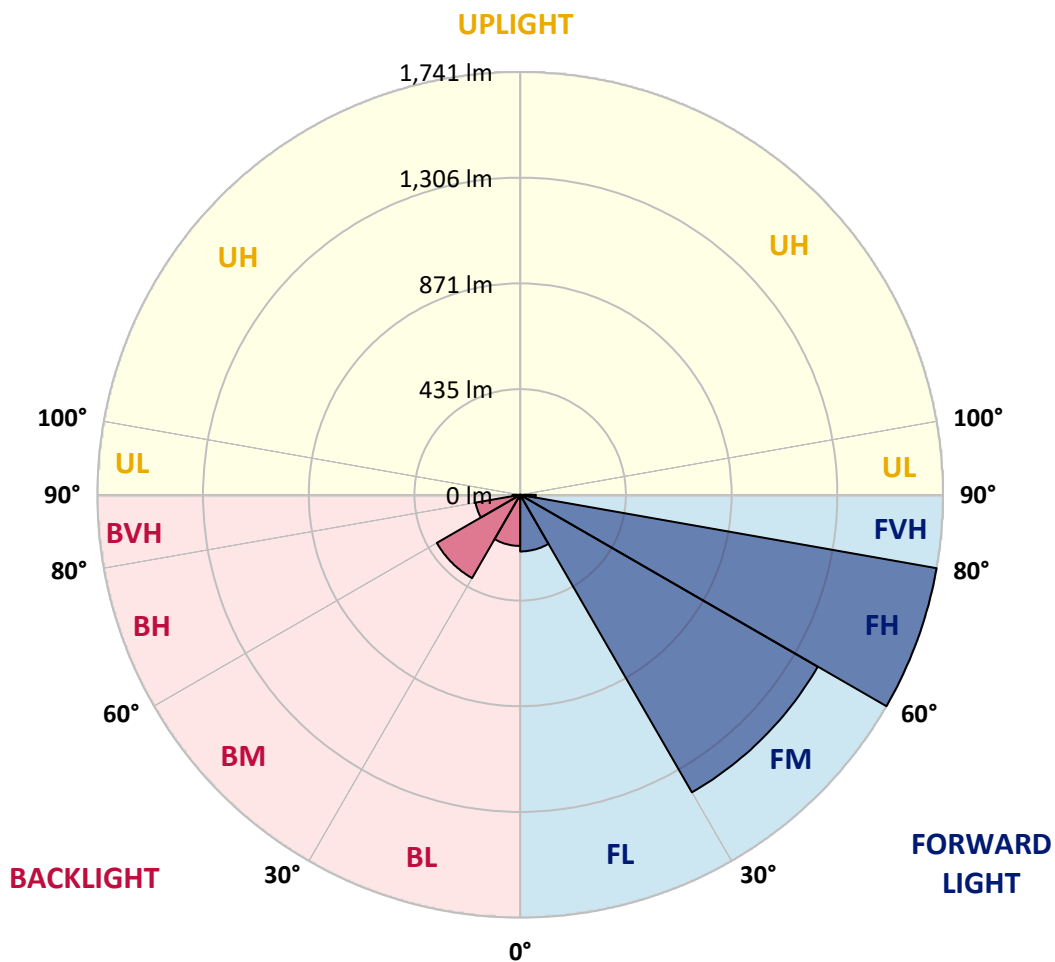
CATALOG NUMBER: XNV-AF-01-LED-U-T4FT-7027-800

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	233.2	5.4			
FM (30°-60°)	1414.9	33.1			
FH (60°-80°)	1741.3	40.7			G1/1800
FVH (80°-90°)	64.7	1.5			G1/100
BL (0°-30°)	210.6	4.9	B1/500		
BM (30°-60°)	396.3	9.3	B1/1000		
BH (60°-80°)	186.5	4.4	B1/500		G1/500
BVH (80°-90°)	31.8	0.7			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 IV Short





REPORT NUMBER: P271275

CATALOG NUMBER: XNV-AF-01-LED-U-T4FT-7027-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
2.5°	623.5	625.1	625.3	627.2	627.2	626.9	627.7	631.1	632.6	636.4	639.8
5°	592.7	594.6	595.4	598.7	602.9	603.0	606.0	612.3	618.3	626.7	633.8
7.5°	558.1	560.4	562.6	569.3	575.4	575.9	581.6	591.7	599.4	609.9	622.6
10°	524.7	525.2	527.5	536.2	544.1	544.8	553.0	564.5	575.0	589.5	603.9
12.5°	497.3	498.9	498.4	504.8	511.7	512.3	523.2	537.5	553.0	569.3	586.5
15°	487.8	487.5	481.9	481.5	484.5	485.1	495.7	512.6	529.9	550.0	572.0
17.5°	494.2	492.1	477.2	467.8	466.0	466.6	474.5	492.9	511.5	534.5	560.9
20°	530.2	521.7	486.7	464.3	458.1	458.1	462.7	477.7	498.1	525.0	558.1
22.5°	615.2	602.3	527.5	487.8	465.7	463.5	460.0	471.5	494.0	526.3	569.3
25°	722.3	716.2	602.3	550.0	504.6	497.5	474.1	478.3	502.4	541.0	599.8
27.5°	821.7	810.8	700.4	640.6	576.4	565.6	516.0	499.5	522.5	568.3	643.8
30°	879.6	872.3	801.3	744.2	667.8	653.8	582.9	541.3	558.4	613.2	706.3
32.5°	942.6	938.3	902.3	850.4	766.8	750.7	669.3	609.6	613.5	672.7	781.6
35°	1003.9	1009.5	989.2	951.0	873.3	858.3	785.5	698.7	681.0	739.6	862.2
37.5°	1077.2	1078.5	1065.7	1041.0	985.4	973.1	912.9	793.9	754.8	810.8	939.9
40°	1223.9	1202.3	1152.3	1132.8	1099.5	1091.9	1023.3	881.1	823.2	883.9	1013.3
42.5°	1382.3	1348.8	1270.6	1238.5	1225.1	1218.0	1115.2	939.4	887.4	957.1	1085.4
45°	1510.1	1482.9	1406.1	1366.5	1368.2	1356.7	1195.6	991.3	957.1	1030.4	1165.9
47.5°	1636.0	1590.5	1504.7	1498.9	1518.0	1501.1	1272.2	1043.2	1029.6	1110.3	1246.4
50°	1644.1	1602.8	1568.0	1613.6	1646.2	1625.4	1341.8	1111.3	1104.9	1207.2	1350.2
52.5°	1544.8	1538.8	1591.8	1668.8	1722.9	1704.3	1398.7	1181.1	1181.9	1328.1	1476.6
55°	1508.8	1501.1	1564.7	1659.3	1732.6	1721.3	1441.1	1260.0	1267.2	1474.9	1612.3
57.5°	1569.6	1550.6	1563.1	1641.5	1710.2	1703.6	1485.1	1347.5	1360.8	1644.1	1737.6
60°	1758.6	1719.6	1653.4	1668.1	1711.0	1707.1	1548.0	1445.2	1467.4	1820.2	1817.0
62.5°	2041.6	1997.7	1862.5	1797.1	1787.6	1780.4	1652.3	1564.9	1576.2	1947.5	1770.7
65°	2352.1	2304.8	2144.2	2037.3	1981.2	1965.5	1820.2	1709.7	1639.8	1947.3	1590.8
67.5°	2700.7	2650.7	2490.6	2388.6	2327.9	2301.0	2093.1	1826.6	1619.0	1782.4	1273.0
70°	3057.7	3010.1	2936.6	2972.3	2998.9	2957.8	2522.6	1865.4	1470.6	1397.6	854.7
72.5°	2868.2	2864.3	2920.1	3257.8	3771.4	3779.4	2951.7	1755.6	1136.3	830.7	455.7
73°	2692.2	2708.3	2811.7	3215.7	3837.4	3840.2	2960.1	1698.8	1043.2	715.6	400.3
75°	1394.8	1503.6	1886.9	2607.4	3553.3	3566.1	2609.3	1286.1	621.7	397.5	269.8
77.5°	373.5	368.7	608.0	1270.3	2369.0	2352.1	1648.7	622.6	298.0	249.3	189.3
80°	128.1	129.6	206.9	464.7	1105.8	1145.2	715.6	271.6	196.0	173.7	134.0
82.5°	65.2	67.5	108.2	197.6	462.4	452.7	230.2	159.9	131.3	105.6	75.1
85°	34.9	35.9	59.6	102.4	169.7	171.5	81.0	85.3	83.5	59.7	37.0
87.5°	17.2	17.6	28.6	45.2	62.8	60.6	28.2	37.0	41.1	33.7	20.4
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: P271275

CATALOG NUMBER: XNV-AF-01-LED-U-T4FT-7027-800

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
2.5°	643.8	643.8	647.4	653.3	657.6	661.8	664.4	668.9	671.4	671.0	670.8
5°	639.5	642.2	649.3	656.7	661.5	664.7	664.7	666.7	666.7	665.9	664.7
7.5°	629.4	634.1	644.4	650.9	652.3	648.8	641.7	636.2	629.4	625.8	624.5
10°	613.5	619.3	632.3	635.5	628.4	615.8	598.7	584.0	571.0	564.9	563.1
12.5°	597.6	605.5	617.8	613.2	596.3	571.9	545.5	525.2	510.5	504.8	503.1
15°	584.5	594.0	603.7	589.2	559.9	525.9	496.8	478.0	466.8	462.4	461.4
17.5°	575.9	587.0	590.2	563.3	522.5	484.5	458.7	446.5	441.5	439.6	439.1
20°	576.4	588.8	581.1	538.4	486.7	448.3	431.2	427.8	427.8	427.8	427.5
22.5°	591.4	602.3	577.3	515.0	452.1	417.9	410.5	413.5	415.7	415.7	415.5
25°	622.3	628.4	579.9	492.5	419.8	391.5	391.8	397.5	399.3	399.3	398.8
27.5°	669.6	664.7	584.8	467.4	388.0	367.5	371.4	376.6	377.9	377.1	376.7
30°	729.0	709.3	588.8	438.1	358.1	345.3	348.5	351.5	350.5	348.5	348.4
32.5°	795.3	754.8	586.5	405.1	331.7	322.2	324.1	325.7	324.1	319.4	319.4
35°	861.0	795.8	573.2	369.3	310.8	299.9	299.7	304.7	304.5	299.0	299.3
37.5°	918.6	828.1	547.2	336.3	292.8	283.5	284.7	287.9	289.6	282.2	281.3
40°	969.0	850.4	510.9	308.3	278.5	279.0	276.0	270.7	269.0	265.5	265.1
42.5°	1016.3	866.0	472.2	284.9	271.1	277.3	267.2	254.9	249.9	252.9	254.8
45°	1062.9	883.4	435.0	265.5	261.9	272.5	258.5	245.0	238.9	240.3	242.3
47.5°	1119.6	907.6	390.1	245.0	247.8	263.5	253.1	238.4	229.4	224.0	222.4
50°	1194.3	942.6	332.0	222.7	232.8	253.7	248.6	228.9	219.1	208.2	205.5
52.5°	1287.9	975.7	273.3	204.8	220.5	245.2	240.8	220.8	208.9	195.8	193.6
55°	1381.2	980.4	222.7	189.3	206.6	233.7	231.7	214.2	197.4	186.8	184.6
57.5°	1446.5	936.7	188.7	176.2	193.3	219.6	223.1	206.4	187.8	179.8	178.4
60°	1447.4	832.0	168.1	167.4	183.3	207.5	214.5	197.1	181.8	176.4	175.3
62.5°	1332.5	670.5	154.7	160.9	175.9	197.4	208.0	192.0	180.5	178.4	177.2
65°	1117.0	495.3	144.1	155.0	169.2	189.0	202.6	190.4	180.0	179.2	178.4
67.5°	824.6	339.6	135.1	147.3	161.4	180.3	197.4	187.8	176.7	180.0	178.9
70°	518.9	226.7	126.8	138.7	151.5	170.1	190.6	183.6	172.7	170.8	167.3
72.5°	292.8	163.9	116.6	127.5	138.3	156.8	181.4	176.2	163.4	155.8	152.3
73°	264.6	155.2	114.2	124.9	135.5	154.1	179.2	174.0	160.6	152.3	148.9
75°	193.6	127.0	103.0	113.6	122.9	141.7	168.8	163.1	148.7	138.7	136.5
77.5°	140.2	97.8	88.7	98.2	106.3	124.2	153.3	146.9	132.7	127.2	125.0
80°	101.1	74.2	73.4	82.6	89.7	107.9	136.7	130.0	116.4	132.4	128.8
82.5°	60.4	47.6	53.8	64.1	71.5	90.5	118.8	110.9	97.8	99.0	84.4
85°	28.8	26.9	33.4	42.1	47.3	62.1	99.0	92.7	78.3	64.1	62.8
87.5°	12.8	12.2	16.0	18.8	25.3	37.3	67.7	60.0	56.9	34.0	26.6
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)