

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: P198950

Luminaire Tested: **XNV-AF-01-LED-U-T4FT-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198950
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-7050
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1050mA 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: 6095 lumens
Efficiency: N/A
Efficacy: 105.1 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 - G2

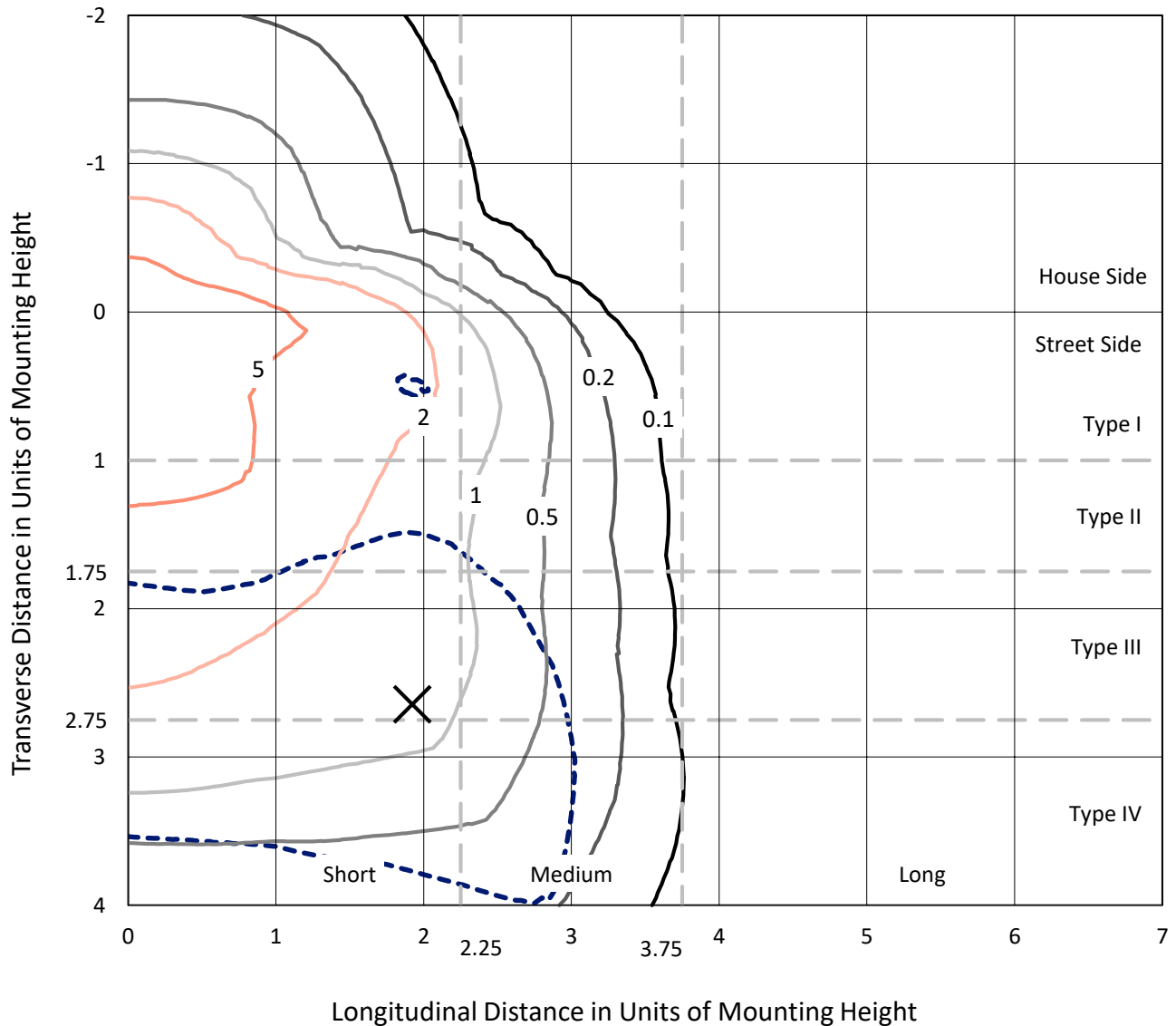
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P198950
 CATALOG NUMBER: XNV-AF-01-LED-U-T4FT-7050

Iso-Footcandle Lines of Horizontal Illumination

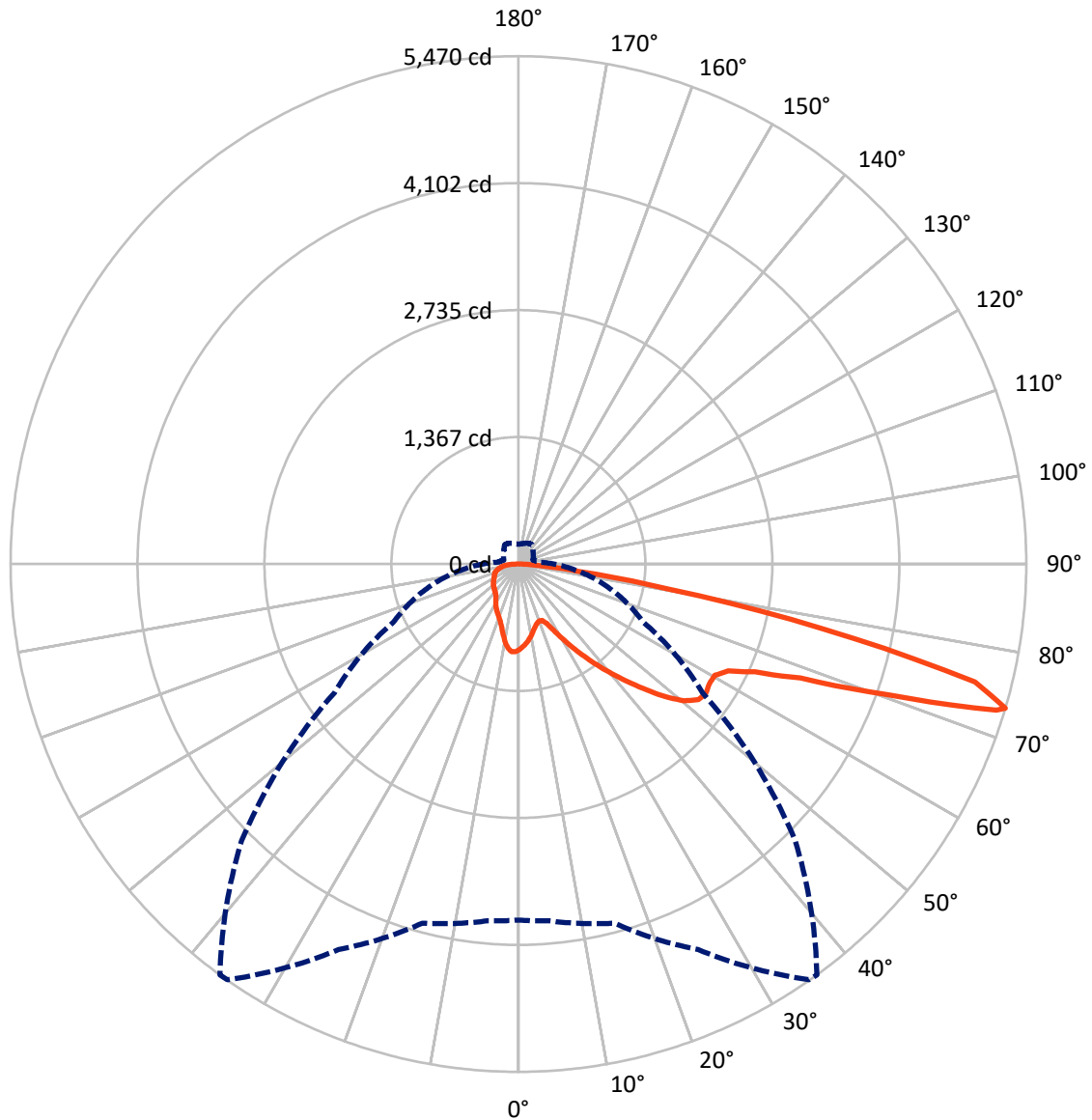
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P198950
CATALOG NUMBER: XNV-AF-01-LED-U-T4FT-7050

Luminous Intensity Polar Plot



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

REPORT NUMBER: P198950

CATALOG NUMBER: XNV-AF-01-LED-U-T4FT-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1175.3	0.0	1175.3
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	4919.7	0.0	4919.7
	% Fixture	80.7	0.0	80.7
Total	Lumens	6095.0	0.0	6095.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	1.4
10°-20°	210.6	3.5
20°-30°	337.7	5.5
30°-40°	558.5	9.2
40°-50°	864.2	14.2
50°-60°	1156.9	19.0
60°-70°	1511.3	24.8
70°-80°	1234.5	20.3
80°-90°	137.4	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°	6095.0	100.0
0°-180°	6095.0	100.0



REPORT NUMBER: P198950

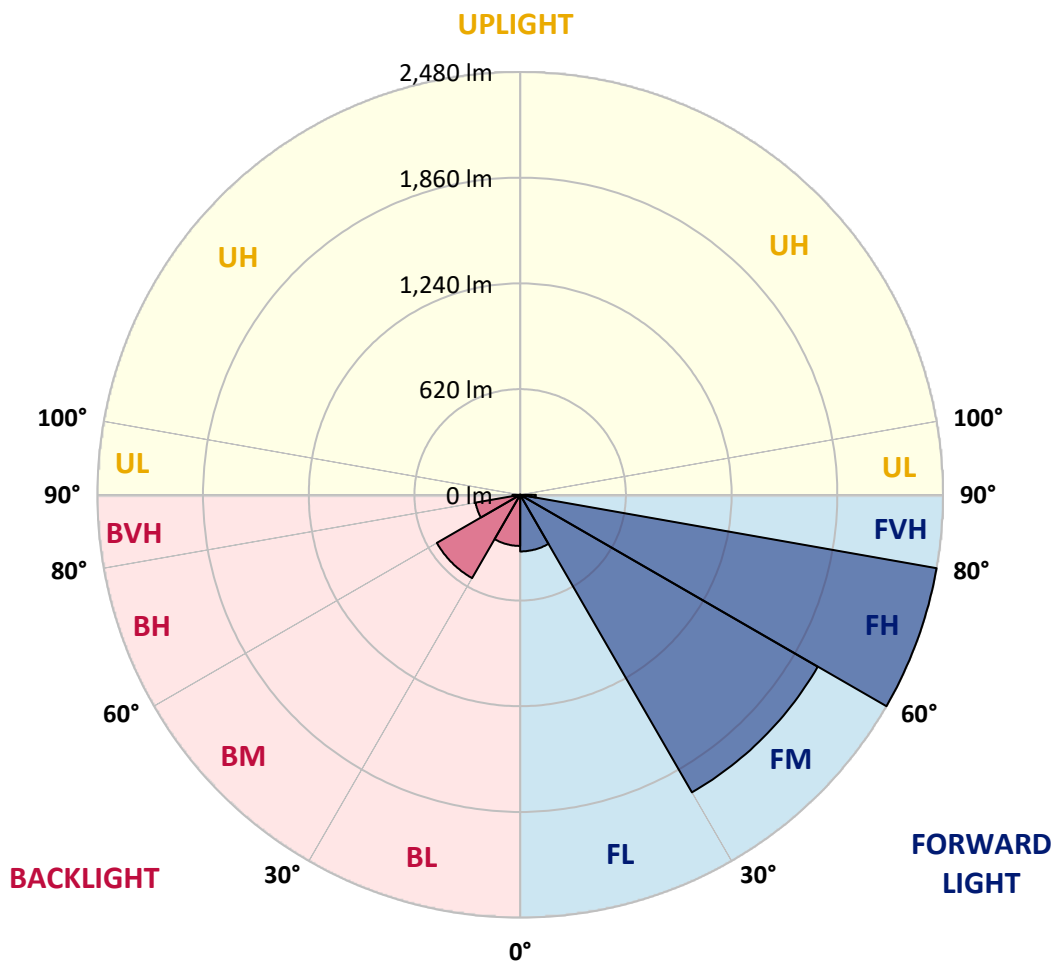
CATALOG NUMBER: XNV-AF-01-LED-U-T4FT-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	332.1	5.4			
FM	(30°-60°)	2015.2	33.1			
FH	(60°-80°)	2480.2	40.7			G2/5000
FVH	(80°-90°)	92.2	1.5			G1/100
BL	(0°-30°)	300.0	4.9	B1/500		
BM	(30°-60°)	564.4	9.3	B1/1000		
BH	(60°-80°)	265.6	4.4	B1/500		G1/500
BVH	(80°-90°)	45.3	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-G2

Type IV Short





REPORT NUMBER: P198950

CATALOG NUMBER: XNV-AF-01-LED-U-T4FT-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	923.2	923.2	923.2	923.2	923.2	923.2	923.2	923.2	923.2	923.2	923.2
2.5°	888.0	890.3	890.7	893.4	893.4	893.0	894.2	898.8	901.1	906.6	911.2
5°	844.2	846.9	848.1	852.7	858.5	858.9	863.2	872.1	880.6	892.6	902.7
7.5°	795.0	798.1	801.2	810.9	819.4	820.2	828.3	842.7	853.9	868.6	886.8
10°	747.4	748.2	751.3	763.7	774.9	776.1	787.7	803.9	819.0	839.6	860.1
12.5°	708.3	710.6	709.8	719.1	728.8	729.6	745.1	765.6	787.7	810.9	835.3
15°	694.7	694.3	686.2	685.8	690.1	690.9	706.0	730.0	754.8	783.4	814.8
17.5°	704.0	700.9	679.6	666.5	663.8	664.5	675.8	702.1	728.4	761.3	798.9
20°	755.1	743.1	693.2	661.4	652.5	652.5	659.1	680.4	709.5	747.8	795.0
22.5°	876.4	857.8	751.3	694.7	663.4	660.3	655.2	671.5	703.6	749.7	810.9
25°	1028.9	1020.0	857.8	783.4	718.7	708.7	675.4	681.2	715.6	770.6	854.3
27.5°	1170.3	1154.8	997.6	912.4	821.0	805.5	735.0	711.4	744.3	809.4	917.0
30°	1252.8	1242.3	1141.2	1059.9	951.1	931.3	830.3	771.0	795.4	873.3	1006.1
32.5°	1342.6	1336.4	1285.3	1211.3	1092.1	1069.2	953.4	868.2	873.6	958.1	1113.4
35°	1429.7	1437.9	1408.8	1354.6	1243.9	1222.6	1118.8	995.2	970.1	1053.3	1228.0
37.5°	1534.3	1536.2	1518.0	1482.8	1403.4	1386.0	1300.4	1130.8	1075.0	1154.8	1338.7
40°	1743.0	1712.4	1641.2	1613.3	1566.1	1555.2	1457.6	1255.1	1172.6	1259.0	1443.3
42.5°	1968.8	1921.2	1809.6	1763.9	1745.0	1734.9	1588.5	1338.0	1264.0	1363.1	1545.9
45°	2150.8	2112.1	2002.9	1946.3	1948.7	1932.4	1702.8	1411.9	1363.1	1467.7	1660.5
47.5°	2330.1	2265.4	2143.1	2134.9	2162.0	2138.0	1812.0	1485.9	1466.5	1581.5	1775.2
50°	2341.7	2282.9	2233.3	2298.4	2344.8	2315.0	1911.1	1582.7	1573.8	1719.4	1923.1
52.5°	2200.4	2191.9	2267.4	2377.0	2454.0	2427.3	1992.0	1682.2	1683.4	1891.7	2103.2
55°	2148.9	2138.0	2228.7	2363.4	2467.6	2451.7	2052.4	1794.5	1805.0	2100.9	2296.4
57.5°	2235.6	2208.5	2226.3	2337.9	2435.8	2426.5	2115.2	1919.2	1938.2	2341.7	2474.9
60°	2504.8	2449.4	2354.9	2375.8	2437.0	2431.6	2205.0	2058.3	2090.0	2592.7	2588.0
62.5°	2907.9	2845.2	2652.7	2559.8	2546.2	2535.7	2353.3	2229.0	2244.9	2773.9	2522.2
65°	3350.1	3282.8	3053.9	2901.7	2821.9	2799.5	2592.7	2435.1	2335.5	2773.5	2265.8
67.5°	3846.6	3775.3	3547.3	3402.0	3315.7	3277.3	2981.1	2601.6	2306.1	2538.8	1813.1
70°	4355.1	4287.3	4182.7	4233.5	4271.4	4212.9	3592.9	2657.0	2094.7	1990.5	1217.5
72.5°	4085.2	4079.7	4159.1	4640.1	5371.6	5383.2	4204.0	2500.5	1618.3	1183.1	649.0
73°	3834.6	3857.4	4004.6	4580.1	5465.7	5469.6	4216.0	2419.6	1485.9	1019.3	570.0
75°	1986.6	2141.5	2687.5	3713.8	5061.0	5079.2	3716.5	1831.7	885.7	566.2	384.2
77.5°	532.1	525.1	865.9	1809.3	3374.2	3350.1	2348.3	886.8	424.4	355.1	269.5
80°	182.4	184.7	294.7	661.8	1575.0	1631.1	1019.3	386.9	279.2	247.5	190.9
82.5°	92.9	96.0	154.1	281.5	658.7	644.8	328.0	227.7	187.0	150.3	106.9
85°	49.6	51.1	84.8	146.0	241.6	244.4	115.4	121.6	118.9	85.2	52.7
87.5°	24.4	25.2	40.7	64.3	89.5	86.4	40.3	52.7	58.5	48.0	29.0
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: P198950

CATALOG NUMBER: XNV-AF-01-LED-U-T4FT-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	923.2	923.2	923.2	923.2	923.2	923.2	923.2	923.2	923.2	923.2	923.2
2.5°	917.0	917.0	922.1	930.6	936.8	942.6	946.5	952.6	956.1	955.7	955.4
5°	910.8	914.7	924.8	935.2	942.2	946.8	946.8	949.5	949.5	948.4	946.8
7.5°	896.5	903.1	917.8	927.1	929.0	924.0	913.9	906.2	896.5	891.5	889.5
10°	873.6	882.2	900.8	905.0	894.9	877.1	852.7	831.8	813.2	804.7	802.0
12.5°	851.2	862.4	879.8	873.3	849.2	814.4	776.8	748.2	727.3	719.1	716.4
15°	832.6	846.2	859.7	839.2	797.4	749.0	707.5	680.8	664.9	658.7	657.2
17.5°	820.2	836.1	840.7	802.4	744.3	690.1	653.3	635.9	628.9	626.2	625.4
20°	821.0	838.8	827.6	766.8	693.2	638.6	614.2	609.2	609.2	609.2	608.8
22.5°	842.3	857.8	822.1	733.5	644.0	595.2	584.8	589.0	592.1	592.1	591.7
25°	886.4	894.9	826.0	701.3	597.9	557.6	558.0	566.2	568.9	568.9	568.1
27.5°	953.8	946.8	833.0	665.7	552.6	523.6	529.0	536.3	538.3	537.1	536.7
30°	1038.2	1010.3	838.8	623.9	510.0	491.8	496.5	500.7	499.2	496.5	496.1
32.5°	1132.7	1075.0	835.3	577.0	472.5	458.9	461.6	463.9	461.6	455.0	455.0
35°	1226.4	1133.5	816.3	525.9	442.6	427.1	426.8	434.1	433.7	426.0	426.4
37.5°	1308.5	1179.6	779.5	479.0	417.1	403.9	405.5	410.1	412.4	402.0	400.8
40°	1380.2	1211.3	727.7	439.1	396.5	397.3	393.1	385.7	383.0	378.3	377.6
42.5°	1447.6	1233.4	672.7	405.8	386.1	395.0	380.7	363.2	355.9	360.1	362.9
45°	1513.8	1258.2	619.6	378.3	372.9	388.0	368.3	348.9	340.4	342.3	345.0
47.5°	1594.7	1292.7	555.7	348.9	352.8	375.2	360.5	339.6	326.8	319.1	316.8
50°	1701.2	1342.6	472.8	317.2	331.5	361.3	354.0	326.1	312.1	296.6	292.8
52.5°	1834.4	1389.9	389.2	291.6	314.1	349.3	343.1	314.5	297.4	278.8	275.7
55°	1967.3	1396.4	317.2	269.5	294.3	333.0	329.9	305.2	281.1	266.0	262.9
57.5°	2060.2	1334.1	268.8	250.9	275.3	312.9	317.9	293.9	267.6	256.0	254.0
60°	2061.7	1185.0	239.3	238.5	261.0	295.5	305.5	280.8	259.1	251.3	249.8
62.5°	1897.9	955.0	220.3	229.3	250.6	281.1	296.2	273.4	257.1	254.0	252.5
65°	1590.8	705.6	205.2	220.7	240.9	269.1	288.5	271.1	256.4	255.2	254.0
67.5°	1174.5	483.7	192.5	209.9	230.0	256.7	281.1	267.6	251.7	256.4	254.8
70°	738.9	323.0	180.5	197.5	215.7	242.4	271.5	261.4	245.9	243.2	238.2
72.5°	417.1	233.5	166.1	181.6	197.1	223.4	258.3	250.9	232.7	221.9	216.9
73°	376.8	221.1	162.6	177.7	192.9	219.6	255.2	247.8	228.9	216.9	212.2
75°	275.7	180.8	146.8	161.9	175.0	201.8	240.5	232.4	211.8	197.5	194.4
77.5°	199.8	139.4	126.2	139.8	151.4	177.0	218.4	209.1	189.0	181.2	178.1
80°	144.1	105.7	104.6	117.7	127.8	153.7	194.8	185.1	165.7	188.6	183.6
82.5°	86.0	67.8	76.7	91.4	101.8	129.0	169.2	158.0	139.4	141.0	120.0
85°	41.0	38.3	47.6	60.0	67.4	88.3	141.0	132.1	111.5	91.4	89.5
87.5°	18.2	17.4	22.8	26.7	36.0	53.1	96.4	85.6	80.9	48.4	38.0
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)