

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: P271218

Luminaire Tested: **XNV-AF-01-LED-U-AFL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24160)
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-AFL-7027-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5905.6 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

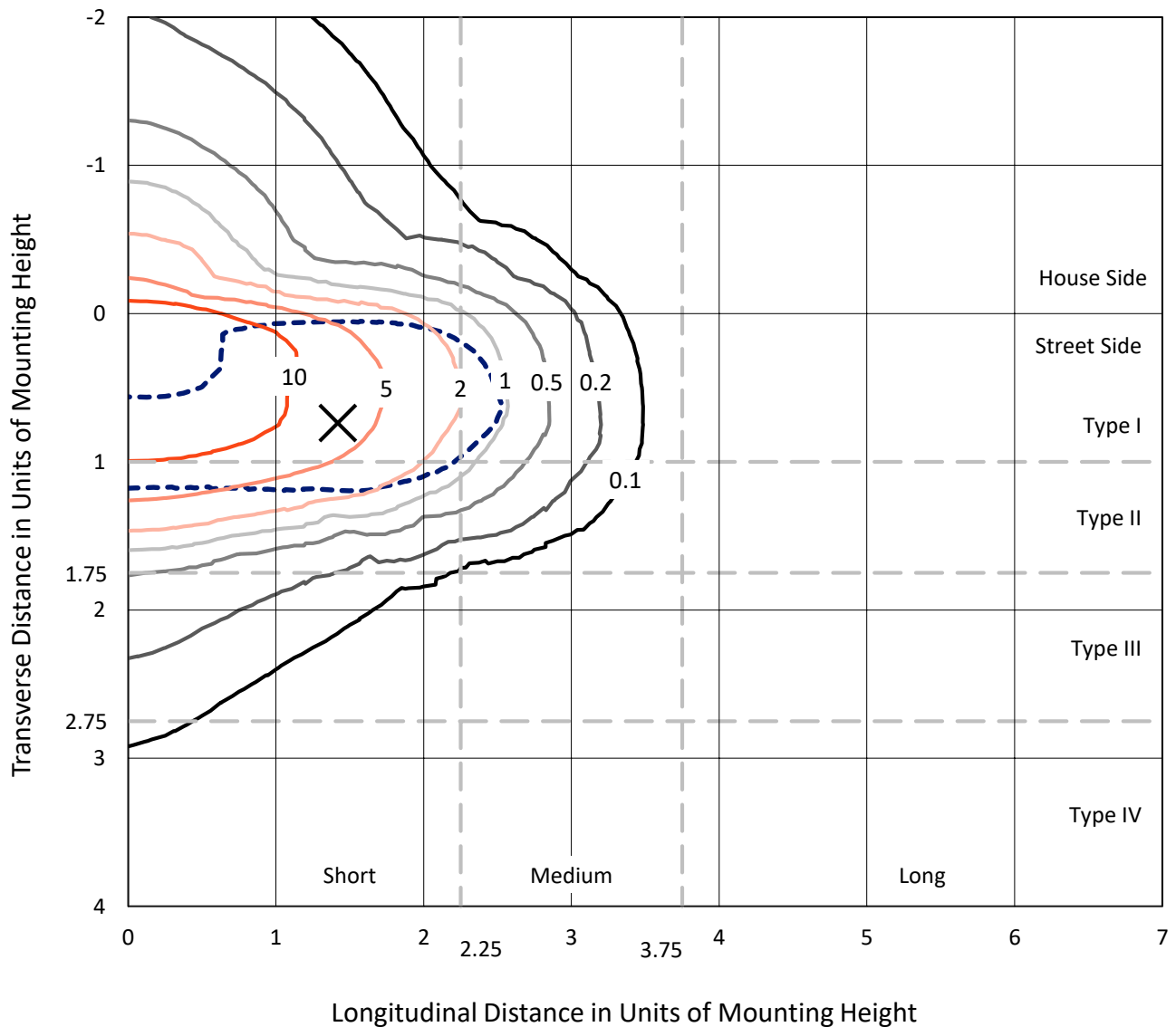
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P271218
 CATALOG NUMBER: XNV-AF-01-LED-U-AFL-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

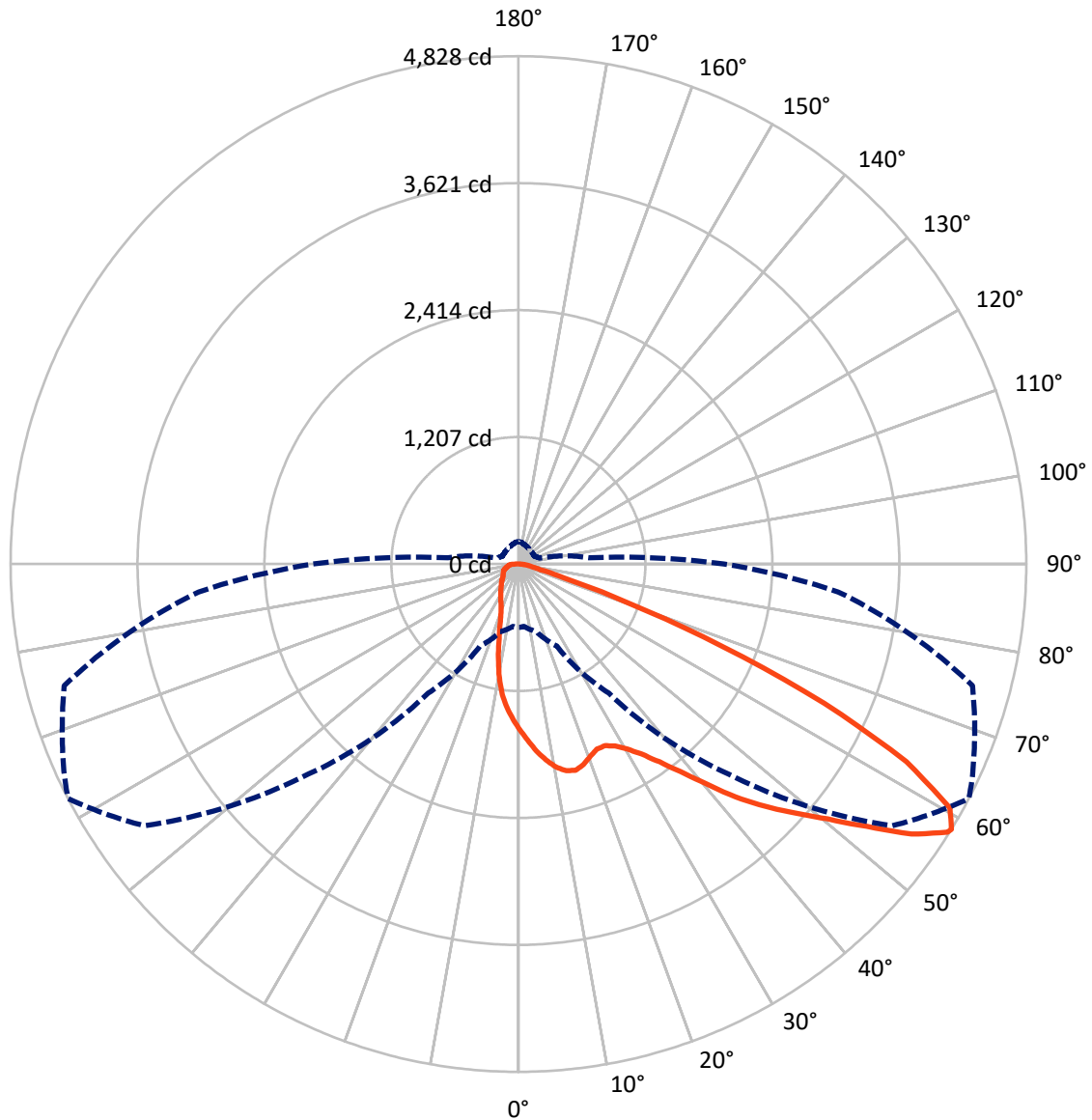


Based on 10 foot mounting height. Maximum calculated value = 18.5 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P271218

CATALOG NUMBER: XNV-AF-01-LED-U-AFL-7027-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

REPORT NUMBER: P271218

CATALOG NUMBER: XNV-AF-01-LED-U-AFL-7027-1200

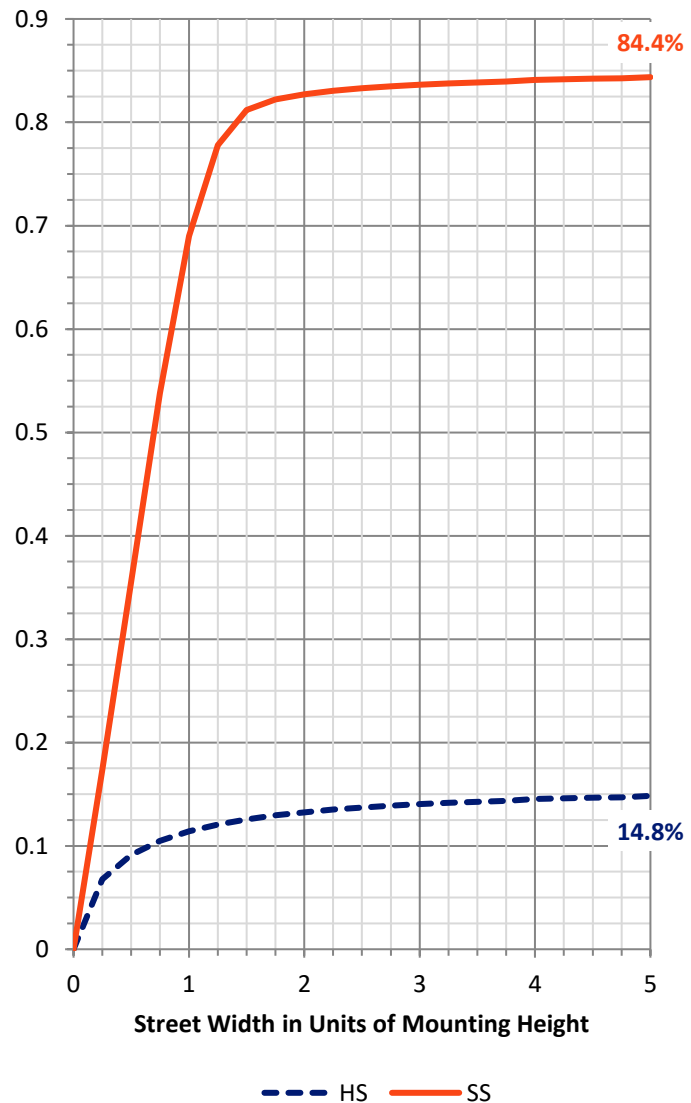
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	906.7	0.0	906.7
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	4998.8	0.0	4998.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	5905.6	0.0	5905.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.9	2.4
10°-20°	355.7	6.0
20°-30°	576.4	9.8
30°-40°	920.3	15.6
40°-50°	1338.6	22.7
50°-60°	1400.8	23.7
60°-70°	853.9	14.5
70°-80°	238.8	4.0
80°-90°	80.1	1.4
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°	5905.6	100.0
0°-180°	5905.6	100.0

Coefficient of Utilization



REPORT NUMBER: P271218

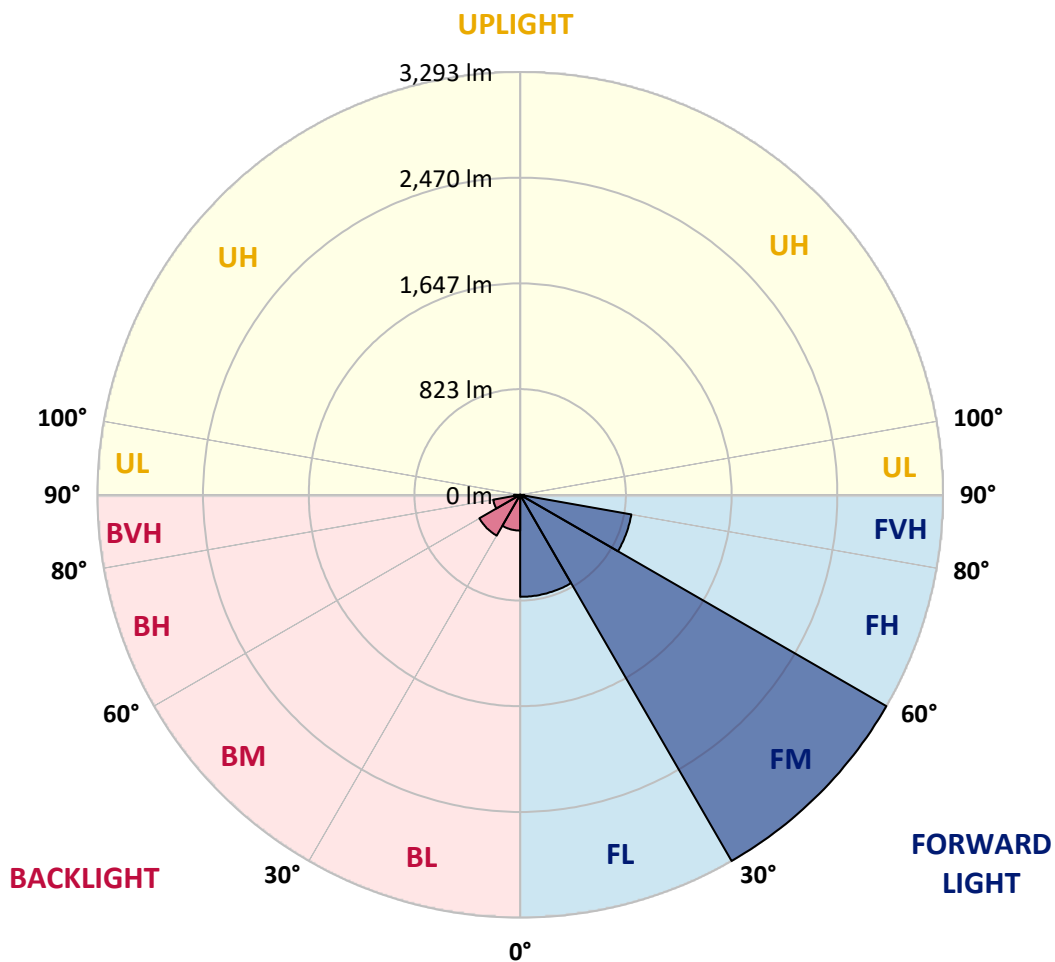
CATALOG NUMBER: XNV-AF-01-LED-U-AFL-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	794.3	13.5			
FM	(30°-60°)	3293.0	55.8			
FH	(60°-80°)	879.3	14.9			G1/1800
FVH	(80°-90°)	32.2	0.5			G1/100
BL	(0°-30°)	278.7	4.7	B1/500		
BM	(30°-60°)	366.7	6.2	B1/1000		
BH	(60°-80°)	213.5	3.6	B1/500		G1/500
BVH	(80°-90°)	47.9	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 Short





REPORT NUMBER: P271218

CATALOG NUMBER: XNV-AF-01-LED-U-AFL-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1789.8	1788.6	1773.4	1763.6	1751.7	1724.3	1697.1	1676.7	1666.4	1626.9	1588.6
5°	1937.7	1933.3	1924.8	1914.1	1898.6	1864.3	1821.0	1783.9	1769.0	1699.0	1628.4
7.5°	1859.5	1866.5	1892.6	1922.3	1953.3	1955.4	1924.8	1880.5	1864.3	1770.5	1667.2
10°	1642.8	1639.9	1672.7	1730.2	1832.5	1933.6	1984.3	1962.4	1945.5	1838.4	1705.9
12.5°	1577.2	1576.3	1581.9	1596.6	1660.8	1799.7	1969.1	2016.3	2010.4	1910.4	1747.3
15°	1597.0	1597.7	1597.5	1599.3	1616.9	1683.1	1884.6	2034.4	2052.8	1981.7	1789.3
17.5°	1660.8	1658.4	1650.1	1641.4	1643.9	1667.6	1793.3	2003.4	2058.7	2045.1	1824.7
20°	1759.4	1759.4	1737.7	1713.0	1696.7	1701.8	1755.4	1950.3	2031.4	2099.0	1851.3
22.5°	1883.0	1885.0	1852.8	1807.7	1770.9	1756.8	1777.1	1910.8	1998.3	2148.8	1875.0
25°	2036.6	2036.3	1989.3	1924.8	1866.5	1832.9	1832.5	1912.6	1987.9	2207.1	1899.6
27.5°	2226.7	2209.4	2154.8	2062.9	1980.6	1929.2	1905.9	1959.2	2009.7	2278.8	1933.0
30°	2441.1	2423.4	2351.9	2233.7	2122.2	2047.3	2009.0	2039.6	2076.2	2369.9	1983.1
32.5°	2653.4	2657.5	2573.3	2440.1	2296.8	2191.2	2134.5	2153.2	2178.7	2481.4	2051.0
35°	2964.1	2963.8	2853.7	2687.3	2517.2	2371.0	2299.0	2309.1	2332.3	2638.6	2146.2
37.5°	3195.9	3192.2	3121.4	2974.1	2782.6	2607.2	2503.1	2504.7	2524.5	2836.0	2271.8
40°	3219.5	3218.8	3218.4	3197.3	3066.5	2901.0	2770.7	2743.9	2752.0	3045.8	2405.0
42.5°	3039.1	3066.1	3143.4	3262.4	3298.9	3212.2	3088.9	3028.7	3010.9	3286.4	2545.9
45°	2781.8	2795.4	2931.3	3198.5	3416.0	3504.5	3411.9	3284.9	3254.6	3520.4	2660.8
47.5°	2662.2	2656.4	2735.0	3026.2	3404.4	3736.9	3743.6	3535.5	3484.2	3722.2	2758.5
50°	2405.8	2397.9	2497.3	2772.6	3279.7	3852.6	4084.4	3808.6	3713.8	3914.2	2847.2
52.5°	1894.5	1887.2	2020.4	2375.1	3000.7	3809.4	4371.5	4143.7	3982.0	4099.1	2929.8
55°	1232.7	1233.6	1360.5	1726.3	2428.3	3557.6	4506.2	4531.0	4349.8	4284.0	2996.7
57.5°	678.8	672.6	762.9	987.6	1670.5	2986.0	4394.0	4810.0	4715.6	4442.7	3045.0
58°	603.4	596.0	665.9	859.6	1497.7	2824.6	4337.6	4827.8	4762.4	4469.0	3052.0
60°	430.0	417.4	406.8	484.6	862.9	2036.6	3961.0	4712.9	4776.0	4521.3	3045.3
62.5°	362.5	348.1	309.6	306.7	406.4	996.2	3132.5	4139.0	4315.7	4400.6	2938.4
65°	336.7	322.2	271.6	253.5	275.7	430.0	1936.9	3195.9	3432.2	3981.0	2668.9
67.5°	318.2	301.2	246.9	223.3	227.7	257.3	821.9	2090.1	2364.0	3104.5	2141.1
70°	301.6	282.7	227.4	200.1	196.4	195.7	321.1	1091.4	1355.4	2031.4	1434.2
72.5°	282.7	264.3	210.1	180.9	172.7	158.7	193.0	450.9	618.3	995.9	657.4
75°	255.4	240.2	190.8	165.0	150.9	128.7	142.6	216.3	266.4	381.3	305.2
77.5°	224.8	212.5	171.2	151.8	132.9	105.2	108.9	146.6	164.6	214.9	176.7
80°	159.1	163.5	149.5	133.6	117.0	84.9	83.8	107.3	118.0	144.3	118.8
82.5°	109.7	112.9	121.8	105.6	94.5	66.0	61.7	74.6	80.0	87.0	57.6
85°	78.2	76.0	84.5	75.6	69.3	42.1	39.4	47.3	50.6	53.2	27.7
87.5°	47.6	47.3	48.7	39.2	36.2	21.4	19.6	22.5	24.0	23.3	13.2
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: P271218

CATALOG NUMBER: XNV-AF-01-LED-U-AFL-7027-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1574.2	1556.0	1516.6	1484.9	1450.6	1424.4	1398.1	1383.3	1367.1	1357.9	1356.8
5°	1591.4	1554.5	1470.4	1392.3	1311.7	1239.4	1168.5	1116.1	1073.4	1049.0	1047.5
7.5°	1610.8	1552.8	1422.8	1287.5	1144.3	1001.7	875.8	786.8	729.8	703.2	701.2
10°	1625.5	1545.1	1364.9	1154.1	927.1	738.9	624.5	572.1	554.8	550.3	549.6
12.5°	1643.2	1539.4	1291.9	983.3	708.7	562.5	527.8	524.5	528.2	530.4	530.8
15°	1659.8	1528.7	1193.3	793.9	554.8	502.7	503.4	510.4	517.9	521.1	521.6
17.5°	1667.6	1502.5	1063.8	625.6	485.4	475.7	484.2	493.4	500.1	502.7	502.7
20°	1667.6	1460.5	913.4	506.7	449.2	450.9	461.4	468.3	469.9	467.7	466.5
22.5°	1660.5	1408.5	767.3	442.1	419.7	426.6	434.8	430.0	412.6	399.3	396.8
25°	1654.3	1346.7	626.7	402.7	393.7	403.1	399.7	366.9	340.3	326.7	324.5
27.5°	1643.9	1272.3	509.3	370.2	368.8	376.1	343.2	311.5	298.2	290.8	289.3
30°	1641.4	1191.4	426.2	341.4	344.1	333.7	296.0	285.8	282.7	278.7	276.8
32.5°	1649.8	1110.6	374.2	317.8	320.3	286.4	272.0	273.5	273.2	268.0	266.1
35°	1673.1	1032.0	341.0	296.4	289.0	256.6	258.4	262.8	262.8	256.6	254.3
37.5°	1713.6	958.9	319.9	278.3	252.9	241.0	245.9	251.7	251.7	247.4	245.4
40°	1756.8	887.6	304.2	263.9	230.0	230.3	235.0	239.6	241.4	242.2	240.7
42.5°	1796.0	813.9	287.2	248.4	219.6	222.2	224.3	227.7	235.4	240.7	239.8
45°	1818.9	739.7	268.8	229.2	212.5	213.6	213.0	218.8	228.1	235.9	235.9
47.5°	1839.9	678.8	253.5	210.1	205.6	205.6	203.3	209.2	217.7	227.0	227.7
50°	1859.9	639.2	242.8	195.2	196.6	195.7	194.9	200.4	211.9	222.9	224.8
52.5°	1880.2	625.9	233.3	184.5	187.4	185.9	186.8	194.6	207.4	218.8	220.8
55°	1908.5	634.5	223.3	177.1	178.7	178.3	181.2	190.1	201.5	213.0	213.6
57.5°	1943.7	665.5	214.9	171.7	170.1	172.4	177.1	185.7	196.6	210.5	211.6
58°	1950.6	672.8	213.3	170.1	168.3	171.7	176.4	184.5	196.0	210.5	211.6
60°	1961.3	699.1	209.7	167.3	162.1	168.0	173.8	181.9	194.6	212.2	214.4
62.5°	1909.6	704.2	208.5	163.9	155.3	162.8	169.8	179.0	193.0	218.5	223.3
65°	1730.7	651.1	200.9	158.3	149.8	158.7	166.0	176.7	197.4	237.3	239.6
67.5°	1389.3	540.7	181.9	149.8	143.5	153.9	163.1	176.7	199.3	240.2	241.7
70°	955.2	406.4	158.3	140.7	136.3	148.0	162.1	180.9	193.0	227.4	222.9
72.5°	499.0	282.7	138.8	130.0	127.3	142.8	172.7	176.7	185.7	212.2	207.8
75°	251.3	192.2	122.2	117.8	117.4	141.0	193.4	170.1	178.0	199.7	209.2
77.5°	148.4	150.6	108.9	106.3	108.2	137.7	193.8	163.5	169.1	183.9	194.2
80°	101.5	124.3	98.5	97.8	99.4	126.7	178.7	155.3	158.7	173.8	185.0
82.5°	57.2	68.6	86.3	91.2	90.4	103.8	154.2	141.4	145.4	205.6	217.4
85°	27.7	41.3	72.4	85.2	77.2	69.0	125.6	125.6	126.7	147.2	149.1
87.5°	10.3	18.4	48.7	67.6	53.9	41.3	85.2	88.9	99.0	101.9	104.1
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)