

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: P199191

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24263)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV2-AF-02-LED-U-SL3-8030-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8353 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

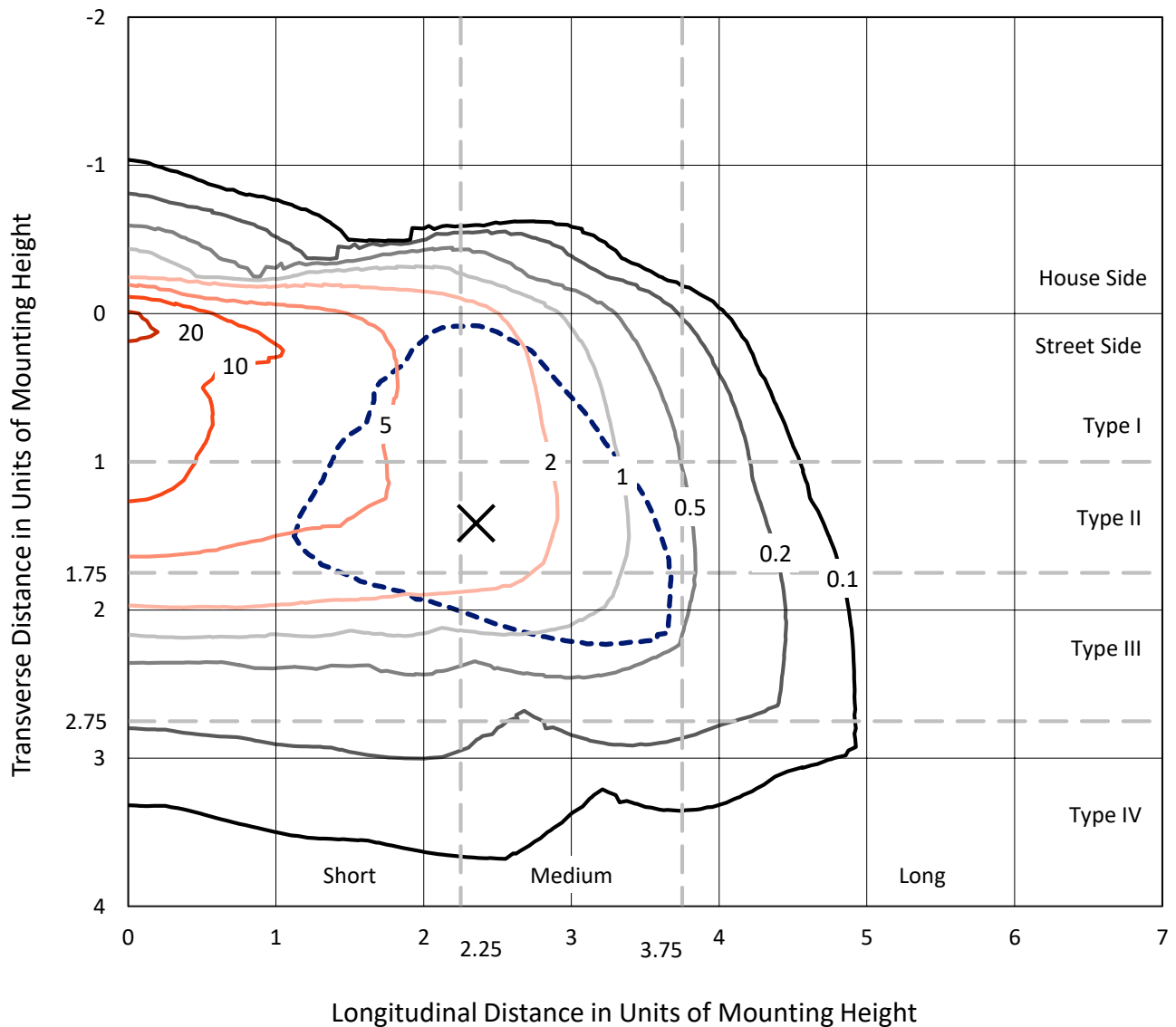
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P199191
 CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-8030-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

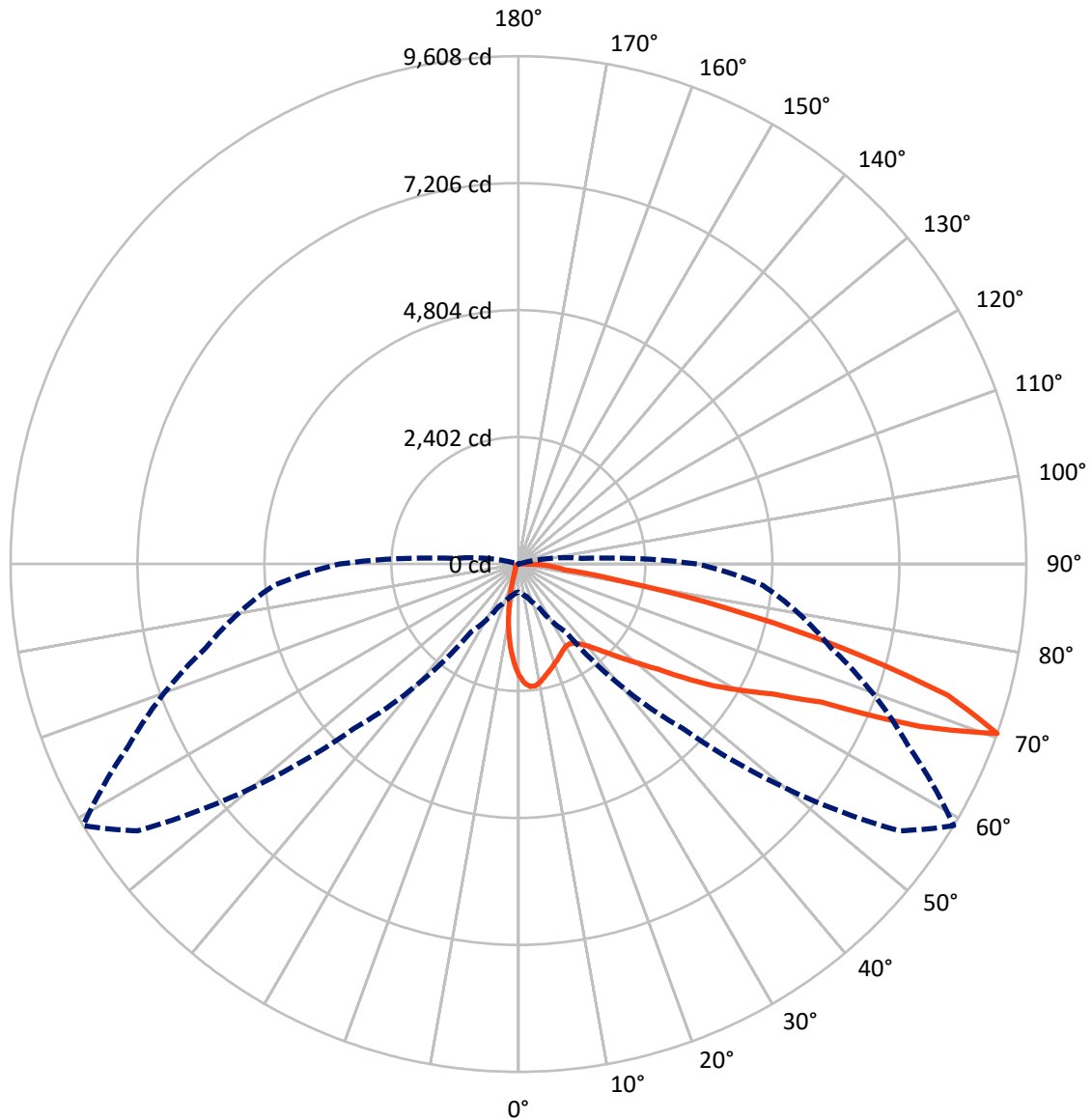


Based on 10 foot mounting height. Maximum calculated value = 22.5 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P199191

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-8030-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P199191

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-8030-HSS

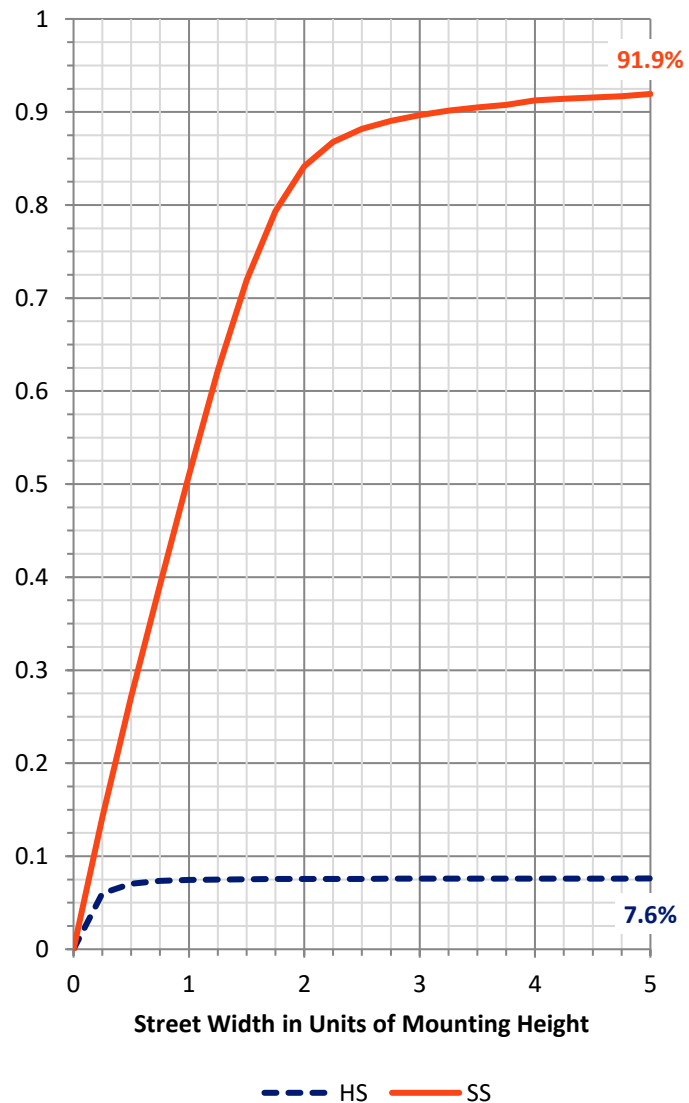
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	642.1	0.0	642.1
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	7710.9	0.0	7710.9
	% Fixture	92.3	0.0	92.3
Total	Lumens	8353.0	0.0	8353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.7	2.1
10°-20°	364.3	4.4
20°-30°	493.1	5.9
30°-40°	711.7	8.5
40°-50°	1181.9	14.1
50°-60°	1807.9	21.6
60°-70°	2248.6	26.9
70°-80°	1243.0	14.9
80°-90°	128.9	1.5
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°	8353.0	100.0
0°-180°	8353.0	100.0

Coefficient of Utilization



REPORT NUMBER: P199191

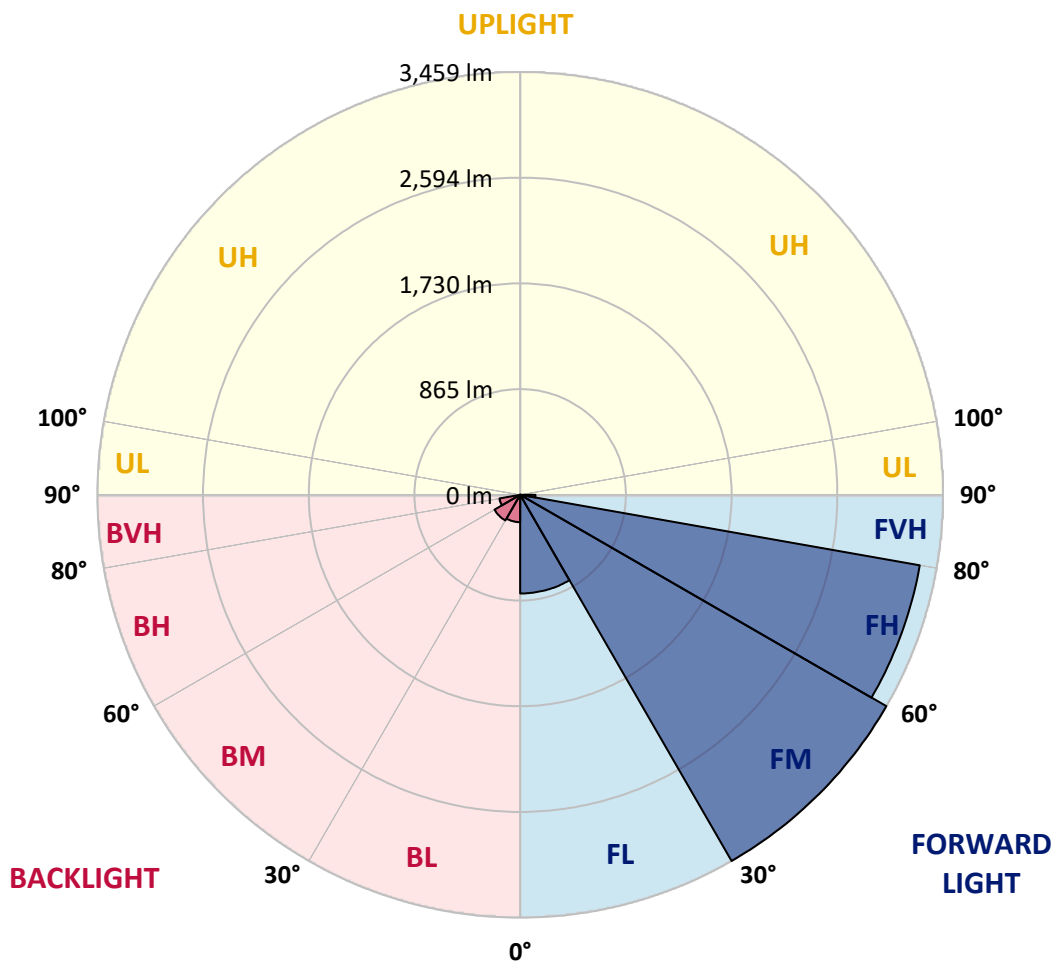
CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-8030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	807.3	9.7			
FM	(30°-60°)	3459.1	41.4			
FH	(60°-80°)	3319.3	39.7			G2/5000
FVH	(80°-90°)	125.2	1.5			G2/225
BL	(0°-30°)	223.8	2.7	B1/500		
BM	(30°-60°)	242.4	2.9	B1/1000		
BH	(60°-80°)	172.3	2.1	B1/500		G1/500
BVH	(80°-90°)	3.7	0.0			G0/10
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: P199191

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-8030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2112.2	2112.2	2112.2	2112.2	2112.2	2112.2	2112.2	2112.2	2112.2	2112.2	2112.2
2.5°	2387.5	2383.8	2368.0	2364.9	2347.2	2311.9	2271.0	2254.6	2221.2	2168.3	2109.7
5°	2427.2	2429.1	2430.4	2423.5	2420.9	2391.9	2346.6	2327.0	2282.3	2195.3	2088.2
7.5°	2278.5	2283.6	2299.3	2306.3	2336.5	2347.8	2338.4	2325.8	2290.5	2187.8	2037.2
10°	2121.6	2131.1	2148.1	2159.4	2196.6	2226.9	2265.3	2268.4	2260.9	2162.6	1979.8
12.5°	1986.8	1995.6	2014.5	2037.2	2075.0	2114.1	2171.4	2191.6	2216.8	2146.2	1938.9
15°	1870.8	1873.4	1891.6	1920.0	1969.8	2023.3	2091.4	2121.0	2170.1	2139.9	1907.4
17.5°	1769.4	1770.0	1782.0	1807.8	1868.3	1938.9	2018.3	2057.4	2119.7	2131.1	1879.7
20°	1702.6	1702.0	1702.6	1716.5	1770.0	1853.8	1950.2	1991.2	2071.2	2120.4	1851.3
22.5°	1679.9	1676.8	1662.3	1657.2	1691.3	1765.0	1880.3	1933.8	2027.7	2117.2	1830.5
25°	1707.6	1705.7	1674.9	1645.9	1649.0	1695.0	1809.1	1874.6	1993.7	2128.6	1825.5
27.5°	1797.1	1793.3	1746.1	1689.4	1653.4	1661.6	1756.2	1824.8	1966.6	2156.3	1832.4
30°	1914.3	1914.9	1864.5	1795.9	1711.4	1664.8	1727.8	1792.7	1948.3	2197.9	1847.5
32.5°	2044.7	2044.1	2008.2	1928.8	1821.1	1722.8	1740.4	1795.2	1950.9	2259.0	1876.5
35°	2179.6	2172.7	2160.7	2090.7	1964.7	1824.2	1797.7	1838.1	1977.3	2339.6	1925.7
37.5°	2335.2	2332.7	2344.7	2271.0	2142.4	1973.5	1898.6	1925.7	2044.1	2458.7	2005.1
40°	2582.9	2569.0	2574.7	2474.5	2342.8	2174.6	2039.7	2046.6	2150.6	2616.3	2130.4
42.5°	3054.8	2998.8	2893.5	2705.7	2563.3	2397.6	2224.3	2212.4	2301.2	2807.2	2295.5
45°	3618.8	3554.5	3289.2	2960.9	2783.9	2637.1	2452.4	2420.3	2486.5	3034.7	2508.5
47.5°	4089.5	4020.2	3668.6	3227.5	3008.2	2884.1	2705.1	2667.3	2708.3	3298.7	2764.4
50°	4250.2	4211.7	3903.0	3449.3	3234.4	3161.3	3022.1	2959.1	2969.1	3583.5	3063.0
52.5°	4176.5	4163.2	3956.5	3601.2	3443.6	3467.6	3369.3	3303.1	3291.8	3894.8	3393.2
55°	4020.8	4014.5	3913.7	3685.6	3628.2	3748.0	3856.4	3799.0	3691.9	4225.6	3666.1
57.5°	3798.4	3822.3	3894.8	3848.2	3855.1	4044.1	4308.8	4338.4	4178.3	4489.0	3868.3
60°	3204.2	3268.4	3600.5	4022.7	4346.0	4536.9	4793.3	4848.8	4590.4	4669.2	4102.1
62.5°	2368.6	2460.6	2933.9	3709.5	4616.3	5473.9	5438.0	5413.4	4983.6	4910.6	4527.4
65°	1391.3	1499.1	1899.2	2898.6	4208.6	6076.3	6641.5	6301.2	5582.9	5412.1	5204.8
67.5°	693.1	693.8	874.6	1529.9	3110.3	5656.0	8398.3	8201.7	6857.0	6151.3	5472.0
70°	533.1	547.6	647.1	889.1	1572.8	4405.2	8800.9	9608.1	8137.4	6118.5	4642.7
72.5°	451.8	461.3	575.9	773.8	1175.8	2418.4	7618.8	8492.8	7765.0	5169.5	3422.2
75°	325.1	332.7	509.8	702.0	1082.6	1199.8	5226.2	6298.7	5826.1	3636.4	1883.4
77.5°	80.7	80.0	177.7	569.6	968.5	999.4	2998.8	4039.1	3342.8	1489.0	483.9
80°	35.9	34.7	40.3	119.7	901.1	943.3	1318.8	2039.7	1282.3	241.3	148.1
82.5°	25.2	23.9	25.2	44.1	301.2	875.2	797.1	884.1	469.4	82.5	63.0
85°	8.2	7.6	13.9	37.2	84.4	504.7	777.6	660.4	349.1	35.3	42.2
87.5°	1.3	1.3	5.0	20.2	24.6	168.2	456.2	457.5	156.9	20.8	18.9
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: P199191

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-8030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2112.2	2112.2	2112.2	2112.2	2112.2	2112.2	2112.2	2112.2	2112.2	2112.2	2112.2
2.5°	2080.0	2042.9	1990.6	1938.3	1891.0	1842.5	1803.4	1785.1	1776.9	1765.6	1741.0
5°	2032.1	1964.7	1850.0	1737.2	1632.0	1531.2	1444.9	1395.7	1342.8	1340.3	1314.4
7.5°	1955.3	1859.5	1678.6	1503.5	1342.8	1189.0	1056.7	971.0	912.4	875.9	850.7
10°	1869.6	1746.7	1507.3	1260.9	1042.2	836.8	666.7	555.8	488.3	454.3	434.8
12.5°	1801.5	1647.1	1338.4	1028.4	754.3	518.6	360.4	279.8	243.9	230.0	223.7
15°	1742.9	1555.8	1180.2	820.4	503.5	298.0	208.6	182.1	176.4	176.4	175.8
17.5°	1683.7	1467.6	1026.5	616.3	317.0	195.3	164.5	160.7	161.3	163.2	163.2
20°	1627.6	1383.8	878.4	439.2	207.9	156.3	149.3	148.1	150.0	152.5	151.9
22.5°	1582.2	1310.0	739.8	301.8	160.1	141.8	137.4	135.5	136.7	138.6	138.0
25°	1550.1	1247.0	612.5	210.5	139.3	129.2	124.1	121.6	120.4	121.6	121.0
27.5°	1530.6	1194.1	492.8	158.2	124.8	116.6	110.3	105.2	102.1	102.1	100.8
30°	1518.0	1144.3	386.3	131.1	112.8	104.0	95.1	88.2	83.2	81.9	81.3
32.5°	1517.3	1101.5	288.6	115.9	101.4	91.4	80.7	71.8	66.2	64.9	64.3
35°	1533.1	1066.8	212.4	104.6	91.4	79.4	67.4	58.0	52.9	52.9	52.3
37.5°	1574.0	1046.6	160.7	95.8	83.2	69.3	56.7	47.9	43.5	44.7	44.7
40°	1650.3	1042.9	131.1	88.8	76.2	60.5	46.0	39.1	37.2	39.1	39.1
42.5°	1766.9	1063.0	116.6	83.8	69.9	51.7	38.4	33.4	32.8	34.7	34.7
45°	1918.7	1102.7	108.4	79.4	63.0	42.8	32.1	29.0	28.4	30.9	30.9
47.5°	2102.7	1156.3	100.8	74.4	56.1	35.3	27.1	24.6	24.6	27.1	27.7
50°	2320.7	1228.7	93.3	69.3	50.4	29.6	22.7	20.8	21.4	23.9	24.6
52.5°	2571.5	1317.6	86.3	64.9	44.1	23.9	18.9	17.6	18.3	20.8	21.4
55°	2787.7	1395.1	78.1	60.5	35.9	19.5	15.8	15.1	15.8	18.9	18.9
57.5°	2976.1	1469.4	70.6	53.6	28.4	15.8	12.6	12.6	13.9	17.0	17.6
60°	3226.2	1586.7	64.3	45.4	21.4	12.0	10.1	10.7	12.6	15.1	15.8
62.5°	3669.2	1785.8	56.1	37.8	15.8	9.5	8.2	8.8	11.3	14.5	15.1
65°	4223.7	1974.2	46.6	31.5	12.0	6.9	6.3	8.2	11.3	14.5	15.1
67.5°	4167.0	1717.1	36.5	25.2	8.8	5.7	5.0	7.6	10.7	14.5	15.1
70°	3379.4	1203.5	27.1	17.0	6.9	5.0	5.0	7.6	10.7	13.9	14.5
72.5°	2344.1	669.8	20.8	11.3	6.3	5.0	4.4	6.9	10.1	13.9	14.5
75°	1115.3	205.4	16.4	8.2	5.7	4.4	3.8	6.9	10.1	13.9	14.5
77.5°	214.2	52.3	13.2	6.9	5.0	4.4	3.8	6.3	10.1	13.2	13.9
80°	72.5	23.3	10.7	6.3	5.0	4.4	3.8	6.3	9.5	12.6	13.2
82.5°	39.7	13.2	9.5	5.7	5.0	3.8	3.2	5.7	8.8	12.6	13.2
85°	30.9	9.5	7.6	5.7	5.0	3.8	3.2	5.7	8.8	12.0	12.6
87.5°	15.8	6.9	6.3	5.7	5.0	3.8	3.2	5.0	8.2	11.3	12.6
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)