

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: P198715

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24262)
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-SL3-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8117.1 lumens
Efficiency: N/A
Efficacy: 123.0 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

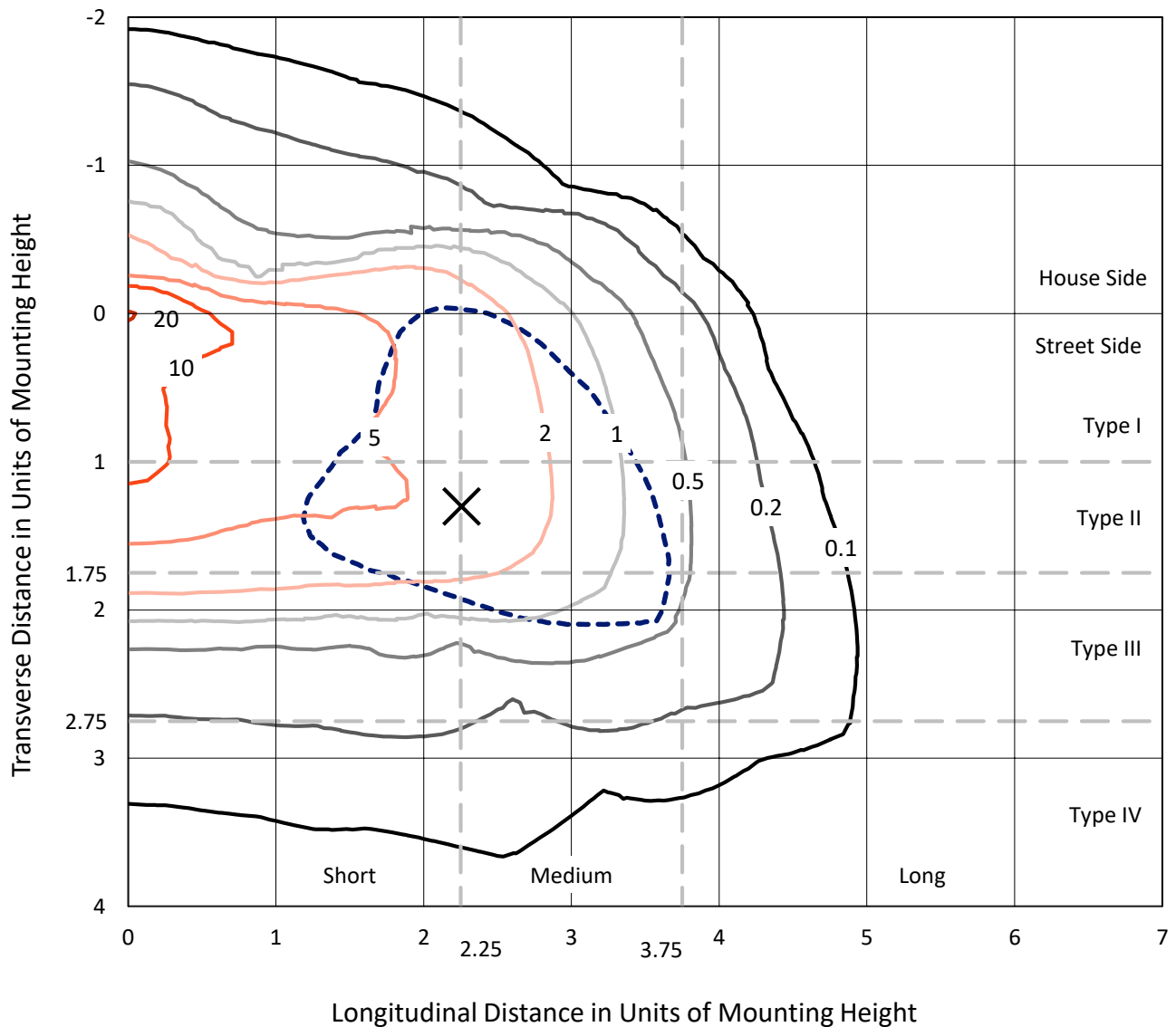
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

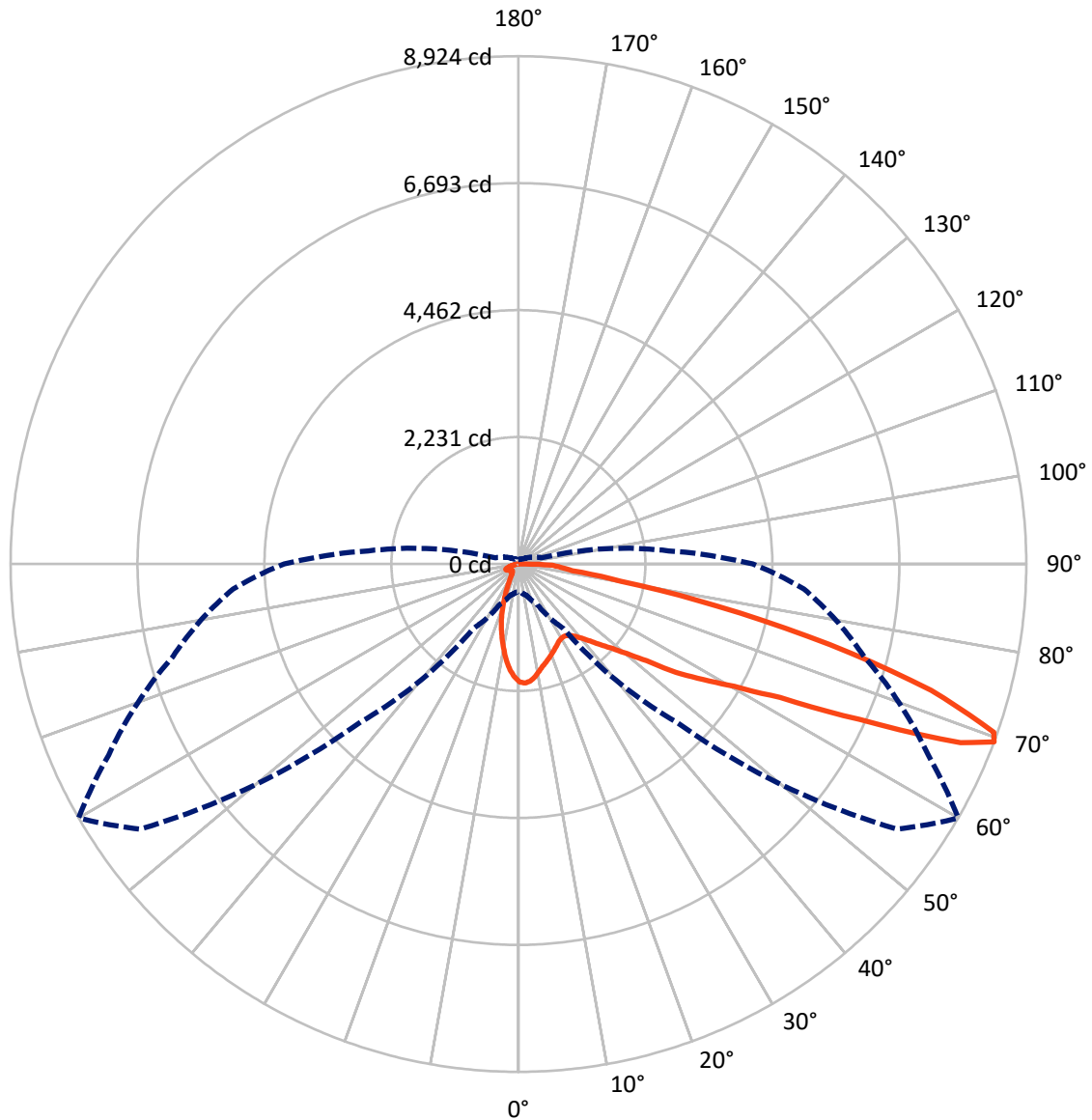
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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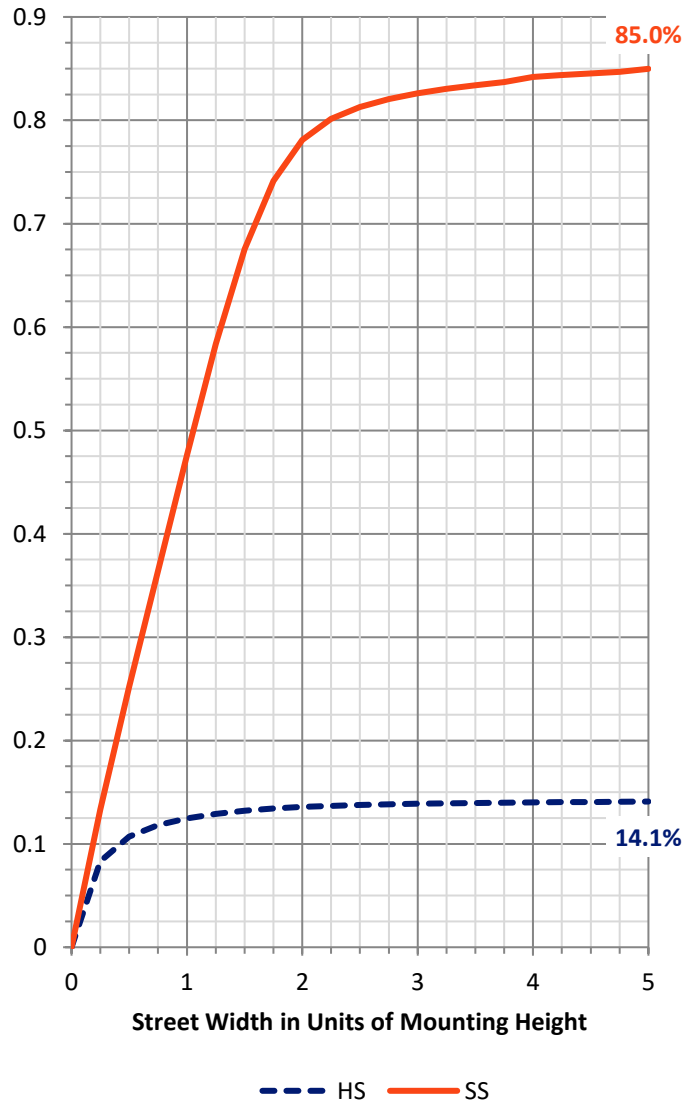
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1157.8	0.0	1157.8
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	6959.3	0.0	6959.3
	% Fixture	85.7	0.0	85.7
Total	Lumens	8117.1	0.0	8117.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	2.2
10°-20°	376.2	4.6
20°-30°	479.9	5.9
30°-40°	660.4	8.1
40°-50°	1069.7	13.2
50°-60°	1678.9	20.7
60°-70°	2238.2	27.6
70°-80°	1245.0	15.3
80°-90°	193.1	2.4
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°	8117.1	100.0
0°-180°	8117.1	100.0

Coefficient of Utilization



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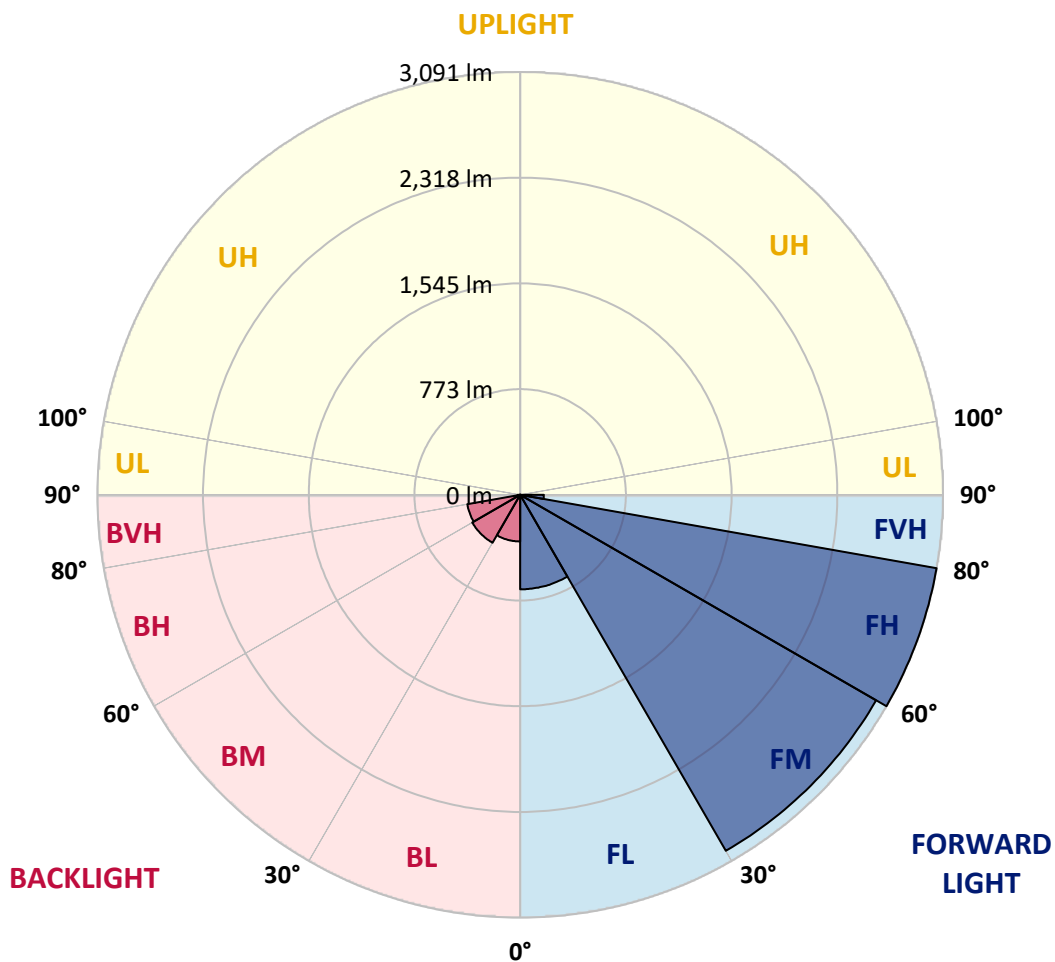
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	690.6	8.5			
FM	(30°-60°)	3004.5	37.0			
FH	(60°-80°)	3090.7	38.1			G2/5000
FVH	(80°-90°)	173.5	2.1			G2/225
BL	(0°-30°)	341.2	4.2	B1/500		
BM	(30°-60°)	404.5	5.0	B1/1000		
BH	(60°-80°)	392.5	4.8	B1/500		G1/500
BVH	(80°-90°)	19.6	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2071.1	2071.1	2071.1	2071.1	2071.1	2071.1	2071.1	2071.1	2071.1	2071.1	2071.1
2.5°	2126.3	2132.0	2132.0	2127.3	2124.8	2109.6	2100.7	2094.5	2083.6	2063.3	2045.1
5°	2050.3	2061.2	2066.0	2068.0	2081.5	2076.8	2077.3	2073.2	2063.8	2041.9	2012.2
7.5°	1910.8	1912.9	1921.2	1935.2	1968.1	1991.0	2009.7	2013.4	2011.2	1995.2	1953.4
10°	1773.4	1777.1	1786.9	1810.8	1842.1	1874.9	1915.5	1932.1	1944.6	1939.4	1886.8
12.5°	1659.4	1659.9	1670.8	1698.4	1733.3	1774.4	1829.5	1855.6	1885.3	1897.3	1838.4
15°	1549.6	1556.8	1567.3	1600.6	1643.8	1695.8	1759.4	1795.3	1834.3	1868.6	1801.0
17.5°	1466.3	1472.0	1478.3	1505.8	1555.8	1620.9	1699.4	1738.0	1789.6	1842.1	1762.4
20°	1420.5	1422.5	1417.9	1431.4	1473.6	1543.8	1634.9	1681.2	1742.7	1816.6	1722.9
22.5°	1411.1	1411.1	1394.0	1391.3	1410.0	1469.4	1568.3	1625.1	1699.9	1798.9	1687.5
25°	1454.8	1451.7	1419.4	1389.8	1383.0	1413.2	1504.8	1574.5	1663.5	1798.3	1661.0
27.5°	1537.6	1533.4	1493.3	1443.4	1400.2	1387.1	1455.9	1527.2	1634.9	1816.0	1647.5
30°	1640.6	1639.1	1598.5	1536.1	1464.8	1397.6	1436.6	1502.7	1615.6	1848.9	1646.8
32.5°	1753.6	1746.3	1721.3	1658.8	1566.2	1455.4	1448.1	1503.7	1610.4	1896.8	1658.8
35°	1873.8	1868.6	1862.4	1799.4	1695.3	1557.3	1498.5	1539.6	1636.0	1963.3	1692.7
37.5°	2026.9	2021.1	2031.6	1962.8	1848.9	1691.1	1583.9	1611.5	1688.0	2060.2	1755.7
40°	2299.1	2282.4	2253.3	2147.6	2027.9	1855.1	1707.3	1711.4	1777.1	2189.8	1856.7
42.5°	2746.2	2692.6	2548.4	2354.2	2216.8	2045.6	1868.1	1848.4	1899.8	2361.1	2003.4
45°	3194.4	3134.0	2890.3	2579.7	2412.5	2250.2	2067.0	2019.6	2052.9	2560.3	2192.4
47.5°	3483.8	3454.1	3179.2	2805.0	2617.6	2473.0	2294.4	2216.3	2240.3	2786.3	2425.6
50°	3568.6	3543.1	3327.1	2981.5	2811.3	2742.0	2576.0	2472.4	2476.6	3050.2	2705.1
52.5°	3505.1	3494.7	3351.6	3090.7	2989.3	3025.7	2965.8	2821.7	2787.3	3339.6	3008.0
55°	3420.2	3423.9	3368.8	3200.6	3170.4	3290.1	3476.0	3359.9	3214.1	3641.0	3323.5
57.5°	3153.2	3155.8	3300.6	3409.9	3516.1	3660.7	3873.1	3824.2	3654.5	3966.3	3676.9
60°	2539.1	2559.3	2881.6	3366.6	3911.2	4391.0	4443.1	4358.8	4123.0	4341.1	4136.5
62.5°	1814.0	1832.2	2205.4	2922.7	3864.8	5217.6	5495.5	5160.4	4758.5	4901.7	4783.0
65°	953.1	949.9	1238.8	2019.6	3255.2	5409.2	7153.9	6583.4	5829.2	5672.5	5407.6
67.5°	532.4	549.6	661.5	1018.7	2121.6	4760.6	8213.2	8381.2	7317.9	6284.1	5380.5
69°	492.4	498.2	573.1	787.6	1383.0	3927.7	8122.0	8924.1	7945.6	6286.7	5033.8
70°	478.3	484.6	552.8	725.6	1161.8	3218.3	7790.5	8860.6	8098.1	6147.2	4718.5
72.5°	428.9	437.2	503.3	652.2	979.1	1658.8	6275.3	7583.9	7335.6	5372.7	3658.7
75°	365.9	379.9	479.9	647.5	927.5	1054.6	4184.9	5650.2	5459.6	3842.4	2075.8
77.5°	151.5	153.0	209.8	474.1	973.3	1009.2	2249.2	3579.0	3168.4	1684.9	625.1
80°	105.7	103.6	104.6	138.4	785.4	1016.0	1154.0	1820.2	1414.7	444.5	292.6
82.5°	89.0	88.0	92.2	87.0	266.0	1153.0	965.1	948.9	666.2	239.5	139.5
85°	58.8	57.3	75.5	79.1	126.4	915.5	1037.9	745.9	496.5	128.1	59.3
87.5°	28.6	29.2	43.2	53.6	67.1	289.9	994.2	589.7	383.6	55.6	23.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2071.1	2071.1	2071.1	2071.1	2071.1	2071.1	2071.1	2071.1	2071.1	2071.1	2071.1
2.5°	2037.8	2022.2	2008.2	1990.5	1976.9	1965.4	1949.8	1949.3	1946.7	1950.4	1951.4
5°	1992.5	1966.5	1926.9	1882.6	1851.4	1810.3	1770.2	1756.7	1741.7	1740.0	1744.7
7.5°	1924.3	1883.8	1816.0	1748.4	1680.7	1611.5	1545.9	1512.6	1480.3	1470.4	1475.1
10°	1848.4	1796.8	1693.2	1582.9	1487.6	1384.6	1284.6	1220.1	1161.3	1136.3	1142.5
12.5°	1789.0	1723.4	1577.7	1434.5	1291.9	1144.1	1012.4	884.9	788.6	745.3	748.0
15°	1738.0	1654.2	1469.4	1278.9	1100.4	897.8	715.1	567.3	483.0	451.8	450.7
17.5°	1682.9	1581.3	1356.4	1134.1	902.5	652.2	478.8	391.4	358.1	347.7	347.7
20°	1624.0	1506.4	1238.3	976.5	694.4	455.4	360.2	326.3	313.8	310.8	310.3
22.5°	1569.3	1432.9	1119.6	808.3	502.3	345.7	306.6	293.6	291.4	294.1	294.1
25°	1526.1	1368.4	999.4	631.4	365.4	289.4	272.7	271.2	279.0	288.4	289.9
27.5°	1493.8	1310.6	880.7	461.1	287.3	252.0	246.2	253.0	271.2	289.9	293.6
30°	1471.5	1261.2	738.6	331.5	239.5	220.7	223.3	235.3	262.9	291.4	299.3
32.5°	1461.6	1221.1	595.5	254.5	204.6	194.2	200.9	216.6	245.2	273.7	283.2
35°	1471.0	1191.9	463.3	211.3	179.0	171.2	179.0	195.2	213.9	228.0	233.7
37.5°	1504.8	1181.5	348.7	187.4	162.4	154.6	160.8	171.8	180.1	185.3	187.9
40°	1576.1	1192.5	273.2	174.9	153.0	144.1	145.8	151.0	156.7	160.8	161.3
42.5°	1689.6	1228.4	243.1	170.2	147.3	135.8	133.3	136.9	143.1	148.8	149.9
45°	1840.5	1288.3	240.0	171.8	144.7	129.1	123.9	127.6	135.8	145.3	146.8
47.5°	2035.7	1383.0	254.5	180.1	146.3	125.4	117.6	121.3	132.2	144.7	146.8
50°	2266.9	1514.2	281.6	192.6	153.5	125.4	115.1	118.2	129.6	143.6	145.8
52.5°	2539.1	1696.9	309.7	205.1	164.0	130.1	116.1	115.6	125.9	139.0	141.6
55°	2839.4	1923.8	336.8	216.0	169.7	136.4	118.7	112.4	120.7	131.1	133.3
57.5°	3192.8	2234.5	384.1	226.4	172.8	141.1	121.8	109.4	114.0	121.3	122.9
60°	3672.2	2691.1	476.3	244.1	178.5	143.1	122.3	106.2	105.7	110.9	111.4
62.5°	4297.3	3225.6	564.3	264.9	190.0	143.6	120.2	104.1	98.9	100.5	100.5
65°	4741.9	3422.4	538.7	282.6	200.4	143.1	118.2	102.5	93.7	91.0	91.0
67.5°	4488.9	3023.1	457.6	287.3	201.4	137.4	113.4	98.9	89.0	82.8	82.8
69°	4117.3	2650.0	420.0	279.0	193.1	130.6	108.2	95.2	85.9	78.6	78.6
70°	3814.3	2367.3	397.1	269.1	183.2	124.9	103.6	91.7	82.8	76.5	76.0
72.5°	2847.7	1579.7	339.4	232.1	150.5	105.7	90.5	81.7	74.5	70.3	70.3
75°	1502.7	791.7	277.9	189.5	116.1	84.3	74.5	68.7	64.5	64.0	63.5
77.5°	492.4	358.1	199.9	142.6	85.3	65.6	59.3	55.6	55.1	57.3	57.3
80°	266.0	213.9	128.6	96.3	59.3	48.9	45.8	45.3	46.9	49.9	49.9
82.5°	129.1	105.7	76.5	59.3	40.6	35.9	35.9	36.4	38.6	42.1	42.1
85°	55.6	49.9	44.3	33.3	25.0	22.4	25.5	28.1	29.7	32.2	33.3
87.5°	26.6	23.4	20.3	13.0	10.9	11.5	13.5	16.7	19.7	21.9	22.4
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)