

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: P159136

Luminaire Tested: **VST-F07-LED-E-U-SLR-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159136
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33715)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F07-LED-E-U-SLR-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (49) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15934.3 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 180.5
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



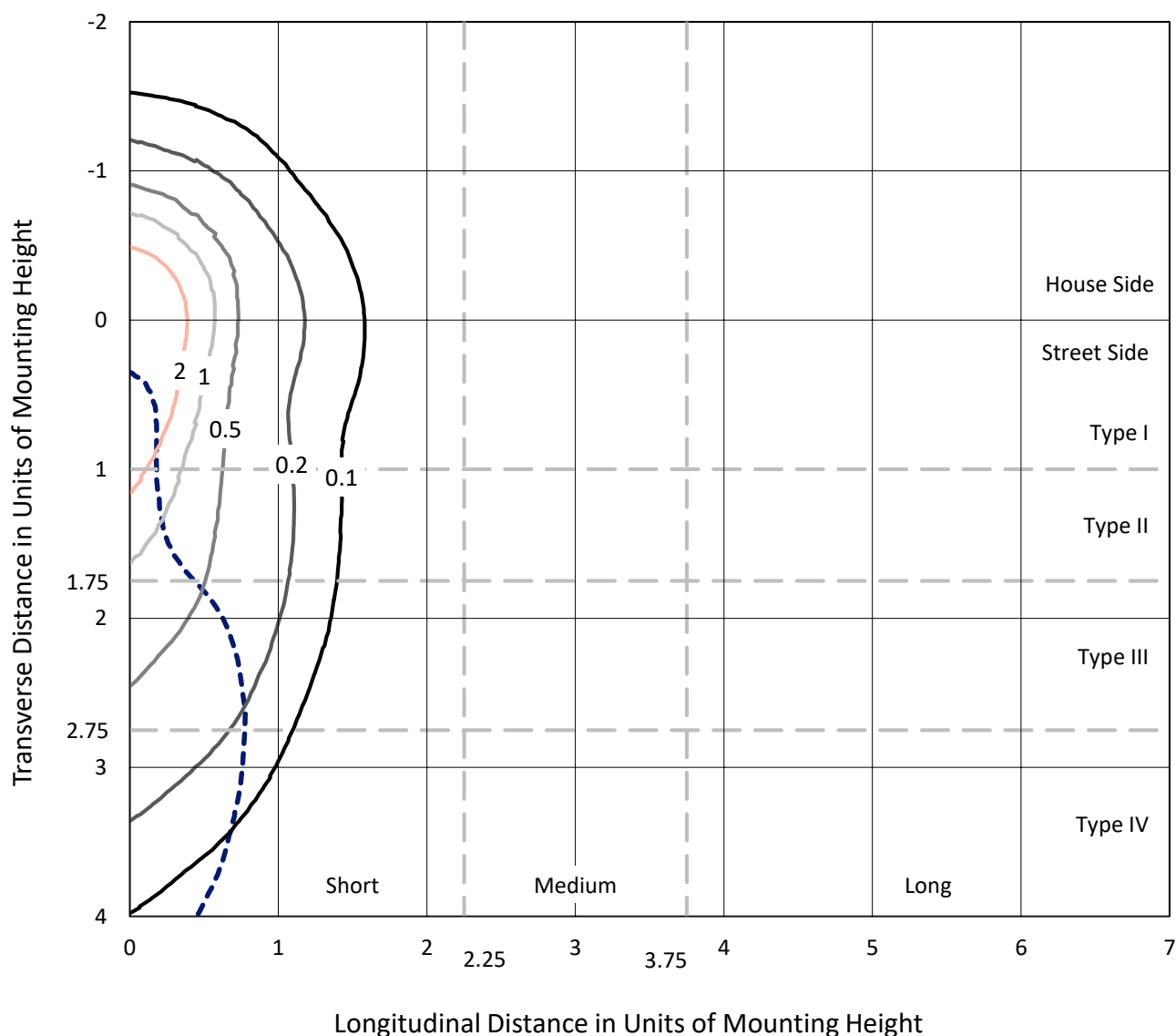
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

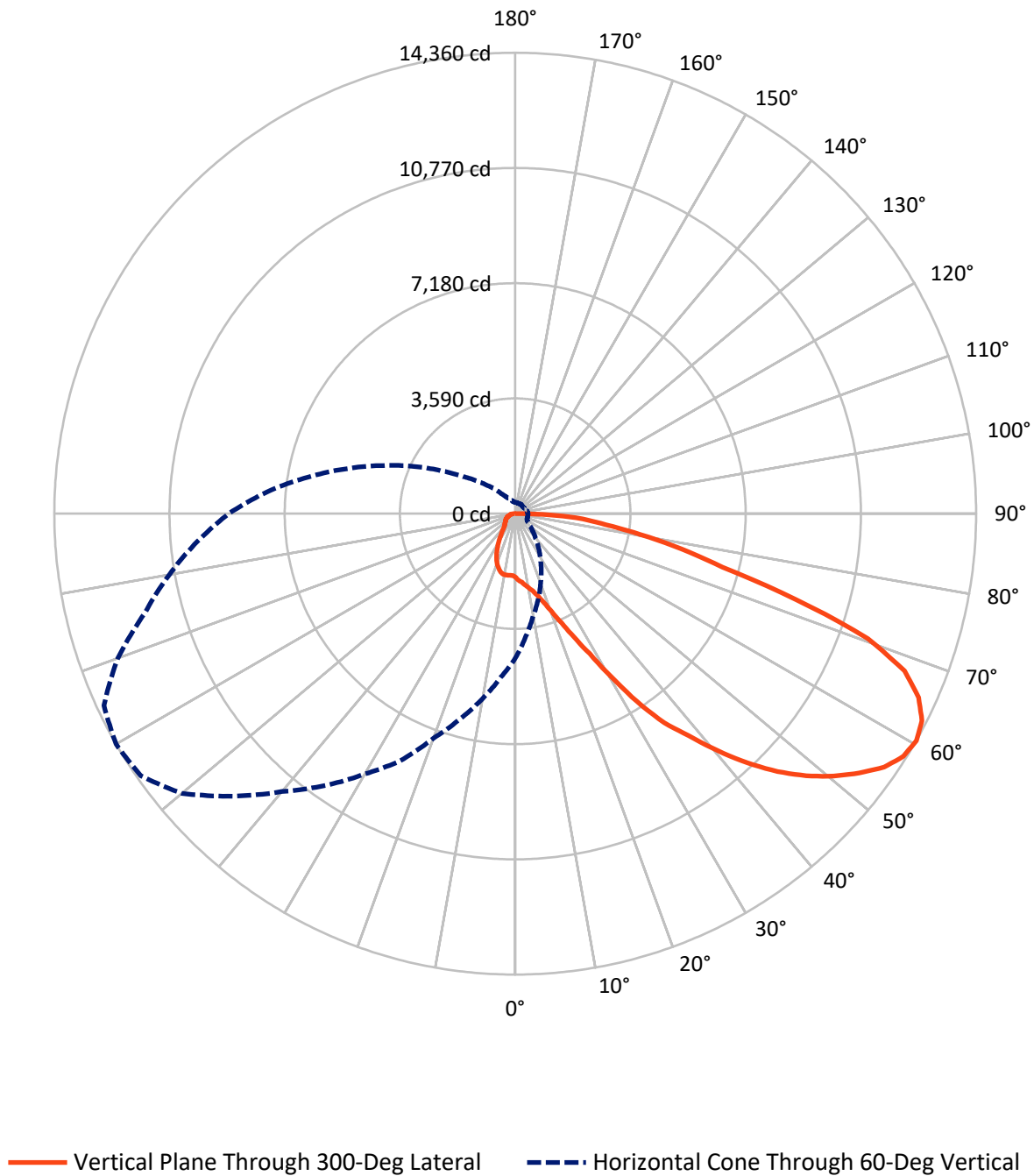


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3587.9	0.0	3587.9
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	12346.4	0.0	12346.4
	% Fixture	77.5	0.0	77.5
Total	Lumens	15934.3	0.0	15934.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.5	1.2
10°-20°	631.2	4.0
20°-30°	1197.8	7.5
30°-40°	1886.4	11.8
40°-50°	2632.9	16.5
50°-60°	3256.3	20.4
60°-70°	3375.3	21.2
70°-80°	2123.9	13.3
80°-90°	634.9	4.0
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°	15934.3	100.0
0°-180°	15934.3	100.0

Coefficient of Utilization



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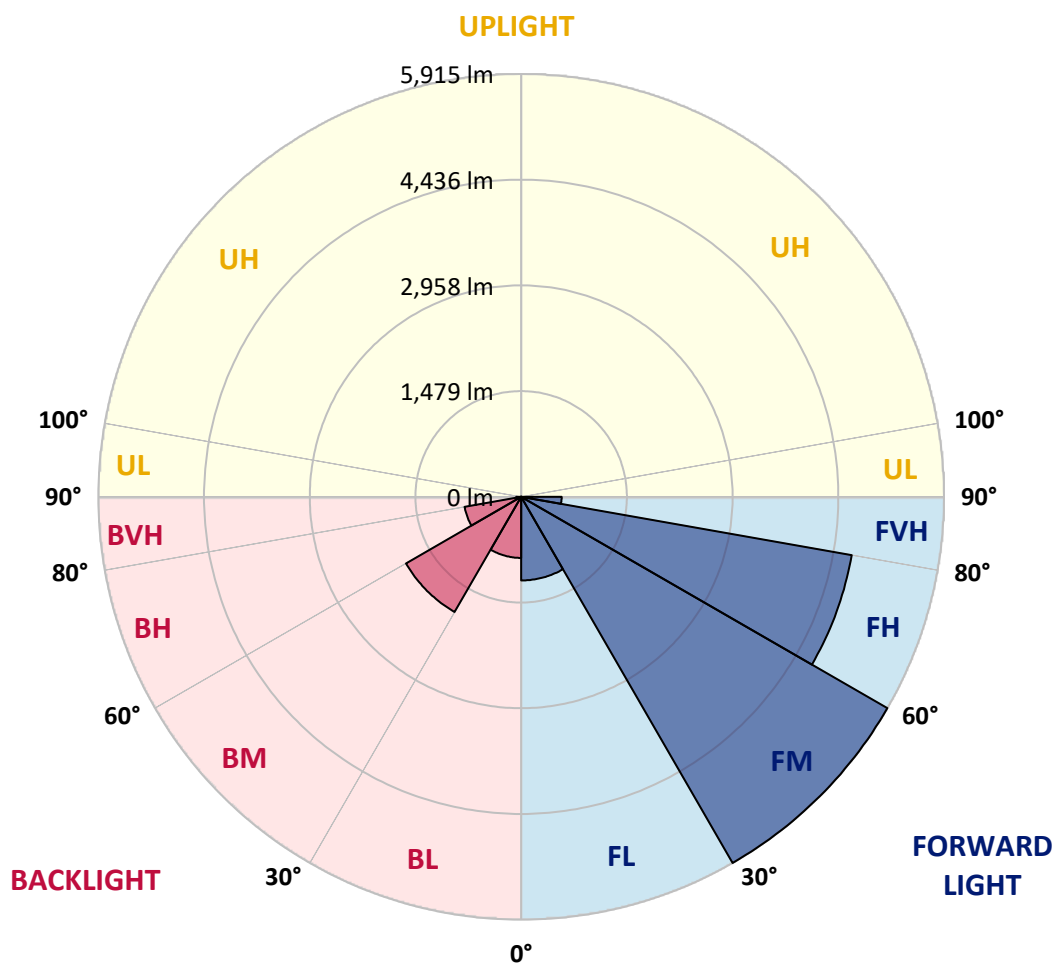
CATALOG NUMBER: VST-F07-LED-E-U-SLR-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1169.8	7.3			
FM	(30°-60°)	5915.1	37.1			
FH	(60°-80°)	4695.7	29.5			G2/5000
FVH	(80°-90°)	565.8	3.6			G4/750
BL	(0°-30°)	854.8	5.4	B2/1000		
BM	(30°-60°)	1860.5	11.7	B2/2500		
BH	(60°-80°)	803.5	5.0	B2/1000		G2/1000
BVH	(80°-90°)	69.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6
2.5°	2099.1	1973.3	1975.7	1972.2	1972.2	1969.8	1972.2	1969.8	1967.4	1967.4	1968.6
5°	2126.3	1987.6	1987.6	1984.0	1981.6	1979.3	1981.6	1979.3	1978.1	1975.7	1976.9
7.5°	2152.4	1995.9	1991.1	1986.4	1980.5	1982.8	1982.8	1981.6	1982.8	1981.6	1984.0
10°	2195.1	2023.2	2011.3	2000.6	1999.4	1997.1	1997.1	1993.5	1993.5	1991.1	1992.3
12.5°	2304.2	2107.4	2094.3	2075.3	2071.8	2061.1	2055.2	2048.1	2036.2	2025.5	2017.2
15°	2488.0	2247.3	2222.4	2205.8	2198.7	2177.3	2144.1	2118.0	2083.6	2054.0	2023.2
17.5°	2713.4	2434.7	2405.0	2383.7	2348.1	2290.0	2234.2	2170.2	2103.8	2043.3	1987.6
20°	3028.8	2703.9	2645.8	2594.8	2505.8	2406.2	2301.8	2190.4	2088.4	1993.5	1911.7
22.5°	3455.7	3051.3	2943.4	2807.0	2642.2	2473.8	2307.8	2153.6	2017.2	1893.9	1784.8
25°	3946.7	3383.4	3188.9	2954.1	2701.5	2469.1	2250.8	2052.8	1893.9	1735.0	1616.4
27.5°	4308.4	3660.9	3373.9	3065.6	2743.0	2446.5	2178.5	1939.0	1746.8	1584.4	1440.9
30°	4514.7	3819.8	3474.7	3113.0	2750.1	2408.6	2087.2	1809.7	1587.9	1394.6	1257.1
32.5°	4647.6	3905.2	3485.4	3065.6	2664.7	2295.9	1948.4	1660.3	1419.5	1213.2	1067.3
35°	4759.0	3939.6	3435.6	2960.0	2503.4	2125.1	1770.6	1482.4	1227.4	1037.7	888.2
37.5°	4804.1	3933.6	3356.1	2818.9	2345.7	1939.0	1589.1	1293.8	1066.1	898.9	770.8
40°	4795.8	3879.1	3248.2	2668.3	2160.7	1744.5	1397.0	1137.3	952.3	811.2	717.5
42.5°	4740.1	3806.8	3128.4	2515.3	1991.1	1583.2	1266.5	1036.5	887.1	780.3	698.5
45°	4670.1	3720.2	3019.3	2375.4	1857.1	1468.2	1190.6	1008.0	878.8	776.8	689.0
47.5°	4575.2	3624.1	2909.0	2275.8	1786.0	1433.8	1189.5	1024.6	885.9	768.5	672.4
50°	4472.1	3554.2	2848.5	2233.1	1777.7	1455.1	1231.0	1050.7	890.6	760.2	649.9
52.5°	4399.7	3523.3	2847.4	2248.5	1821.6	1514.4	1279.6	1083.9	908.4	764.9	645.1
55°	4310.8	3518.6	2878.2	2314.9	1917.6	1615.2	1356.7	1140.8	945.2	782.7	648.7
57.5°	4316.7	3612.3	2998.0	2478.5	2090.8	1751.6	1455.1	1210.8	980.7	793.4	642.8
60°	4504.1	3830.5	3234.0	2758.4	2317.3	1911.7	1555.9	1248.8	978.4	769.7	614.3
62.5°	4890.7	4157.8	3587.4	3086.9	2547.3	2035.0	1592.7	1238.1	942.8	718.7	568.0
65°	5352.0	4540.8	3931.3	3341.9	2687.3	2063.5	1560.7	1178.8	871.6	652.2	512.3
67.5°	5813.3	4812.4	4129.3	3414.2	2630.3	1948.4	1442.1	1046.0	750.7	562.1	449.5
70°	5979.3	4868.1	4113.9	3251.8	2371.8	1662.6	1187.1	842.0	602.4	460.1	378.3
72.5°	5730.3	4519.5	3657.3	2763.2	1928.3	1289.1	870.5	621.4	460.1	360.5	308.3
75°	4806.5	3639.5	2891.2	2081.3	1392.3	912.0	628.5	453.0	346.3	285.8	246.7
77.5°	3426.1	2534.3	1969.8	1367.3	903.7	632.1	450.6	340.4	275.1	228.9	200.4
80°	2152.4	1555.9	1200.1	820.6	563.3	429.3	323.8	269.2	221.8	186.2	167.2
82.5°	1296.2	906.0	706.8	509.9	370.0	294.1	238.4	211.1	176.7	154.2	143.5
85°	879.9	666.5	463.7	301.2	223.0	173.1	162.5	145.9	131.6	110.3	106.7
87.5°	168.4	238.4	207.5	123.3	81.8	70.0	61.7	59.3	53.4	42.7	48.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6
2.5°	1961.5	1959.1	1954.4	1954.4	1950.8	1943.7	1942.5	1937.8	1931.8	1933.0	1931.8
5°	1968.6	1963.9	1957.9	1955.6	1950.8	1943.7	1940.1	1934.2	1928.3	1928.3	1928.3
7.5°	1976.9	1971.0	1966.2	1957.9	1948.4	1941.3	1931.8	1924.7	1921.2	1920.0	1921.2
10°	1984.0	1980.5	1973.3	1961.5	1948.4	1934.2	1924.7	1915.2	1905.8	1906.9	1908.1
12.5°	1999.4	1987.6	1968.6	1950.8	1930.7	1912.9	1896.3	1884.4	1872.5	1872.5	1873.7
15°	1988.8	1954.4	1928.3	1893.9	1871.4	1842.9	1823.9	1813.3	1806.1	1803.8	1804.9
17.5°	1925.9	1884.4	1845.3	1814.4	1783.6	1761.1	1752.8	1745.7	1736.2	1740.9	1736.2
20°	1831.0	1780.0	1724.3	1687.5	1650.8	1635.4	1621.1	1614.0	1608.1	1629.4	1629.4
22.5°	1694.7	1633.0	1576.1	1531.0	1489.5	1472.9	1458.7	1450.4	1453.9	1480.0	1482.4
25°	1522.7	1448.0	1373.3	1346.0	1304.5	1291.5	1283.2	1282.0	1285.5	1311.6	1317.5
27.5°	1340.1	1261.8	1197.8	1134.9	1115.9	1105.3	1089.8	1107.6	1111.2	1139.7	1151.5
30°	1145.6	1061.4	993.8	952.3	912.0	917.9	904.8	926.2	935.7	965.3	974.8
32.5°	946.4	866.9	799.3	757.8	729.3	732.9	723.4	742.4	751.9	787.4	805.2
35°	782.7	715.1	660.5	625.0	611.9	598.9	596.5	598.9	608.4	635.6	667.7
37.5°	689.0	633.3	594.1	568.0	550.3	542.0	537.2	537.2	537.2	543.1	558.6
40°	648.7	598.9	564.5	539.6	527.7	523.0	519.4	515.9	509.9	507.6	508.8
42.5°	630.9	574.0	537.2	518.2	511.1	511.1	511.1	508.8	502.8	496.9	491.0
45°	613.1	551.4	514.7	501.6	498.1	499.3	499.3	499.3	494.5	487.4	476.7
47.5°	590.6	526.5	489.8	481.5	481.5	485.0	486.2	486.2	481.5	474.4	466.1
50°	563.3	494.5	461.3	454.2	450.6	450.6	450.6	450.6	447.1	442.3	436.4
52.5°	549.1	476.7	442.3	435.2	435.2	431.7	430.5	426.9	423.4	419.8	411.5
55°	544.3	469.6	434.0	428.1	428.1	424.6	421.0	417.4	411.5	405.6	397.3
57.5°	531.3	454.2	423.4	418.6	418.6	416.3	412.7	409.1	403.2	394.9	384.2
60°	501.6	428.1	402.0	400.8	400.8	399.7	397.3	397.3	391.3	383.0	370.0
62.5°	463.7	400.8	375.9	375.9	374.7	373.6	368.8	367.6	360.5	349.8	338.0
65°	426.9	377.1	360.5	355.8	353.4	349.8	347.5	341.5	335.6	326.1	314.3
67.5°	380.7	341.5	330.9	326.1	321.4	317.8	314.3	310.7	303.6	296.5	287.0
70°	330.9	302.4	296.5	295.3	289.4	285.8	284.6	281.1	273.9	266.8	255.0
72.5°	283.4	266.8	262.1	262.1	255.0	250.2	247.9	246.7	241.9	236.0	225.3
75°	228.9	217.0	215.8	221.8	221.8	218.2	215.8	218.2	211.1	207.5	196.9
77.5°	187.4	181.4	177.9	180.3	187.4	183.8	179.1	179.1	179.1	173.1	169.6
80°	158.9	154.2	150.6	153.0	151.8	150.6	148.2	143.5	143.5	143.5	142.3
82.5°	143.5	142.3	129.3	129.3	124.5	121.0	118.6	116.2	113.8	113.8	119.8
85°	107.9	111.5	104.4	103.2	97.2	92.5	87.8	85.4	83.0	86.6	98.4
87.5°	52.2	52.2	49.8	55.7	51.0	48.6	45.1	42.7	45.1	55.7	66.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6
2.5°	1929.5	1928.3	1927.1	1924.7	1920.0	1918.8	1916.4	1916.4	1915.2	1912.9	1915.2
5°	1925.9	1928.3	1928.3	1927.1	1923.5	1925.9	1925.9	1929.5	1929.5	1931.8	1937.8
7.5°	1921.2	1927.1	1931.8	1935.4	1940.1	1943.7	1950.8	1961.5	1966.2	1974.5	1978.1
10°	1911.7	1922.4	1930.7	1941.3	1953.2	1966.2	1976.9	1993.5	1999.4	2011.3	2017.2
12.5°	1884.4	1902.2	1916.4	1937.8	1957.9	1978.1	1997.1	2018.4	2029.1	2042.1	2050.4
15°	1818.0	1838.2	1858.3	1877.3	1912.9	1952.0	1982.8	2011.3	2026.7	2043.3	2051.6
17.5°	1738.5	1751.6	1768.2	1793.1	1827.5	1861.9	1911.7	1952.0	1975.7	1994.7	1997.1
20°	1646.0	1665.0	1676.9	1686.4	1713.6	1737.4	1790.7	1837.0	1867.8	1890.3	1896.3
22.5°	1504.9	1525.1	1545.2	1552.4	1573.7	1604.5	1634.2	1684.0	1727.9	1761.1	1781.2
25°	1343.6	1362.6	1389.9	1411.2	1416.0	1440.9	1470.5	1527.4	1572.5	1625.9	1649.6
27.5°	1182.3	1199.0	1228.6	1240.5	1254.7	1279.6	1303.3	1350.7	1398.2	1459.9	1485.9
30°	993.8	1029.4	1063.8	1086.3	1098.1	1127.8	1144.4	1190.6	1234.5	1279.6	1317.5
32.5°	832.5	864.5	903.7	932.1	946.4	968.9	995.0	1034.1	1068.5	1112.4	1156.3
35°	684.3	728.1	754.2	779.1	815.9	826.6	852.7	888.2	908.4	955.8	1005.6
37.5°	579.9	606.0	632.1	657.0	687.8	702.1	727.0	756.6	780.3	808.8	853.9
40°	515.9	530.1	549.1	565.7	588.2	606.0	619.0	643.9	661.7	690.2	722.2
42.5°	486.2	489.8	492.2	504.0	515.9	527.7	542.0	552.6	574.0	595.3	615.5
45°	469.6	462.5	458.9	460.1	464.9	472.0	483.8	495.7	509.9	523.0	534.8
47.5°	455.4	445.9	435.2	429.3	430.5	432.9	442.3	451.8	458.9	469.6	474.4
50°	422.2	413.9	404.4	396.1	397.3	398.5	406.8	413.9	418.6	422.2	428.1
52.5°	400.8	389.0	380.7	372.4	371.2	374.7	381.9	389.0	391.3	393.7	394.9
55°	385.4	373.6	362.9	354.6	351.0	359.3	361.7	371.2	374.7	374.7	375.9
57.5°	373.6	359.3	348.7	340.4	334.4	340.4	346.3	357.0	358.1	355.8	355.8
60°	355.8	345.1	334.4	326.1	320.2	324.9	329.7	341.5	341.5	335.6	334.4
62.5°	324.9	319.0	311.9	308.3	307.1	311.9	315.5	324.9	321.4	314.3	311.9
65°	302.4	297.7	290.5	288.2	287.0	294.1	295.3	301.2	296.5	292.9	291.7
67.5°	275.1	271.6	268.0	266.8	263.3	263.3	265.6	269.2	266.8	266.8	268.0
70°	244.3	239.6	236.0	237.2	234.8	234.8	236.0	238.4	237.2	239.6	241.9
72.5°	215.8	209.9	208.7	208.7	206.3	207.5	207.5	208.7	211.1	212.3	218.2
75°	188.6	182.6	182.6	181.4	181.4	181.4	182.6	185.0	187.4	188.6	190.9
77.5°	163.7	160.1	161.3	160.1	160.1	160.1	160.1	163.7	164.8	166.0	169.6
80°	141.1	141.1	142.3	142.3	141.1	139.9	141.1	143.5	144.7	145.9	147.1
82.5°	128.1	129.3	129.3	129.3	123.3	121.0	124.5	126.9	129.3	130.4	132.8
85°	110.3	105.5	110.3	109.1	100.8	99.6	99.6	100.8	103.2	100.8	100.8
87.5°	71.2	64.0	67.6	67.6	59.3	48.6	61.7	66.4	59.3	62.9	62.9
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6
2.5°	1918.8	1916.4	1917.6	1917.6	1920.0	1916.4	1921.2	1925.9	1927.1	1927.1	1928.3
5°	1943.7	1941.3	1949.6	1946.1	1954.4	1953.2	1959.1	1963.9	1966.2	1966.2	1966.2
7.5°	1982.8	1991.1	1995.9	2008.9	2010.1	2017.2	2023.2	2029.1	2026.7	2027.9	2026.7
10°	2026.7	2037.4	2049.2	2062.3	2063.5	2071.8	2081.3	2087.2	2084.8	2083.6	2080.1
12.5°	2064.7	2071.8	2086.0	2099.1	2106.2	2119.2	2128.7	2133.4	2133.4	2129.9	2126.3
15°	2062.3	2073.0	2088.4	2107.4	2120.4	2139.4	2156.0	2166.7	2167.8	2164.3	2163.1
17.5°	2010.1	2025.5	2039.8	2065.8	2089.6	2115.7	2142.9	2158.3	2172.6	2180.9	2185.6
20°	1916.4	1935.4	1955.6	1990.0	2022.0	2056.4	2088.4	2110.9	2132.3	2157.2	2186.8
22.5°	1806.1	1834.6	1863.1	1906.9	1946.1	1985.2	2022.0	2049.2	2082.5	2125.1	2180.9
25°	1676.9	1706.5	1742.1	1793.1	1842.9	1899.8	1954.4	2008.9	2073.0	2146.5	2233.1
27.5°	1523.9	1557.1	1603.3	1665.0	1721.9	1780.0	1865.4	1952.0	2056.4	2151.2	2249.7
30°	1372.1	1414.8	1464.6	1526.3	1583.2	1666.2	1751.6	1858.3	1968.6	2075.3	2192.7
32.5°	1208.4	1261.8	1323.5	1374.5	1438.5	1522.7	1608.1	1721.9	1839.3	1965.0	2094.3
35°	1050.7	1101.7	1150.3	1207.3	1271.3	1350.7	1433.8	1542.9	1691.1	1825.1	1979.3
37.5°	890.6	938.1	972.4	1017.5	1073.2	1161.0	1249.9	1375.7	1515.6	1680.4	1834.6
40°	750.7	789.8	828.9	864.5	912.0	995.0	1089.8	1213.2	1350.7	1510.8	1682.8
42.5°	639.2	668.9	711.5	754.2	794.6	865.7	954.7	1075.6	1212.0	1375.7	1547.6
45°	545.5	565.7	600.1	635.6	685.5	744.7	830.1	953.5	1092.2	1257.1	1438.5
47.5°	477.9	487.4	511.1	547.9	594.1	652.2	725.8	837.2	972.4	1138.5	1329.4
50°	431.7	442.3	454.2	485.0	526.5	585.8	646.3	743.6	866.9	1029.4	1219.1
52.5°	399.7	404.4	409.1	428.1	466.1	515.9	579.9	653.4	778.0	933.3	1104.1
55°	380.7	381.9	385.4	394.9	423.4	469.6	525.4	595.3	692.6	839.6	1013.9
57.5°	358.1	360.5	364.1	370.0	387.8	429.3	476.7	533.7	614.3	737.6	904.8
60°	336.8	342.7	348.7	352.2	361.7	386.6	426.9	472.0	537.2	629.7	762.5
62.5°	314.3	321.4	326.1	329.7	333.2	348.7	378.3	408.0	448.3	508.8	608.4
65°	294.1	298.8	302.4	304.8	307.1	311.9	324.9	336.8	348.7	385.4	457.8
67.5°	271.6	273.9	275.1	276.3	275.1	275.1	276.3	281.1	285.8	300.0	334.4
70°	245.5	249.0	249.0	250.2	250.2	246.7	246.7	246.7	246.7	250.2	269.2
72.5°	220.6	225.3	225.3	226.5	225.3	224.1	224.1	224.1	227.7	230.1	237.2
75°	196.9	201.6	200.4	201.6	202.8	202.8	205.2	206.3	209.9	211.1	215.8
77.5°	173.1	176.7	177.9	176.7	179.1	181.4	186.2	188.6	189.7	190.9	192.1
80°	150.6	153.0	151.8	148.2	154.2	157.7	164.8	173.1	170.8	172.0	174.3
82.5°	124.5	121.0	118.6	121.0	124.5	129.3	136.4	147.1	148.2	154.2	153.0
85°	96.1	85.4	84.2	90.1	88.9	94.9	106.7	115.0	122.1	128.1	122.1
87.5°	56.9	51.0	42.7	40.3	43.9	58.1	60.5	73.5	79.5	81.8	73.5
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6
2.5°	2036.2	2042.1	2042.1	2044.5	2048.1	2049.2	2054.0	2062.3	2063.5	2063.5	2067.0
5°	2074.1	2080.1	2080.1	2084.8	2086.0	2091.9	2097.9	2107.4	2112.1	2110.9	2126.3
7.5°	2135.8	2131.1	2127.5	2134.6	2138.2	2145.3	2157.2	2165.5	2173.8	2186.8	2208.2
10°	2188.0	2180.9	2177.3	2182.1	2184.4	2192.7	2199.9	2211.7	2231.9	2252.0	2278.1
12.5°	2230.7	2222.4	2212.9	2215.3	2218.8	2229.5	2241.4	2256.8	2286.4	2312.5	2351.7
15°	2266.3	2254.4	2244.9	2249.7	2258.0	2272.2	2292.4	2319.6	2368.3	2413.3	2465.5
17.5°	2300.7	2298.3	2294.7	2310.1	2316.1	2349.3	2378.9	2428.7	2495.1	2562.7	2637.5
20°	2333.9	2360.0	2373.0	2403.8	2422.8	2467.9	2512.9	2573.4	2657.6	2750.1	2852.1
22.5°	2380.1	2451.3	2495.1	2558.0	2590.0	2638.6	2705.1	2784.5	2878.2	2996.8	3127.2
25°	2490.4	2594.8	2682.5	2780.9	2861.6	2936.3	3015.8	3111.8	3247.0	3354.9	3525.7
27.5°	2539.0	2686.1	2817.7	2956.5	3077.4	3192.5	3318.2	3434.4	3594.5	3740.3	3946.7
30°	2492.8	2658.8	2829.6	3011.0	3187.7	3362.0	3544.7	3722.6	3907.6	4111.5	4330.9
32.5°	2407.4	2593.6	2785.7	2999.2	3218.5	3445.1	3682.2	3940.8	4201.7	4455.4	4679.6
35°	2320.8	2521.2	2734.7	2979.0	3237.5	3518.6	3812.7	4140.0	4485.1	4806.5	5099.4
37.5°	2195.1	2415.7	2660.0	2942.2	3249.4	3595.7	3974.0	4377.2	4813.6	5255.9	5640.2
40°	2043.3	2276.9	2543.8	2868.7	3237.5	3675.1	4167.3	4684.3	5245.3	5784.8	6256.8
42.5°	1904.6	2132.3	2416.9	2770.3	3206.7	3745.1	4351.1	4995.0	5659.1	6262.8	6879.4
45°	1782.4	2033.8	2319.6	2701.5	3191.3	3804.4	4487.5	5227.5	5987.6	6706.3	7434.4
47.5°	1670.9	1931.8	2252.0	2663.5	3184.2	3840.0	4582.3	5379.3	6221.3	7046.7	7892.2
50°	1555.9	1809.7	2152.4	2622.0	3166.4	3838.8	4632.1	5482.4	6384.9	7311.1	8207.7
52.5°	1432.6	1687.5	2031.5	2546.1	3128.4	3817.4	4645.2	5552.4	6514.2	7473.6	8475.7
55°	1319.9	1558.3	1902.2	2419.2	3049.0	3765.3	4615.5	5582.1	6605.5	7634.9	8664.2
57.5°	1190.6	1438.5	1765.8	2244.9	2899.5	3672.8	4531.3	5540.6	6631.6	7742.8	8813.7
60°	1012.8	1255.9	1592.7	2038.6	2665.9	3477.1	4374.8	5414.8	6548.6	7761.8	8920.4
62.5°	808.8	1018.7	1343.6	1754.0	2337.4	3169.9	4085.4	5132.6	6290.0	7583.9	8865.8
65°	601.3	741.2	1021.1	1381.6	1956.7	2707.4	3619.4	4659.4	5784.8	7089.3	8523.1
67.5°	418.6	519.4	691.4	959.4	1423.1	2090.8	2954.1	3920.6	5003.3	6173.8	7811.6
70°	316.6	362.9	456.6	606.0	921.4	1424.3	2147.7	3008.6	4013.1	5140.9	6683.8
72.5°	270.4	294.1	346.3	415.1	564.5	865.7	1348.4	2070.6	2961.2	3879.1	5127.9
75°	243.1	263.3	296.5	340.4	399.7	525.4	791.0	1310.4	1961.5	2598.3	3577.9
77.5°	220.6	238.4	268.0	290.5	322.6	378.3	504.0	783.9	1175.2	1605.7	2220.0
80°	196.9	207.5	234.8	257.3	282.2	314.3	361.7	492.2	674.8	951.1	1309.2
82.5°	168.4	176.7	196.9	227.7	246.7	259.7	273.9	326.1	404.4	515.9	727.0
85°	130.4	136.4	154.2	176.7	185.0	186.2	188.6	202.8	251.4	386.6	626.2
87.5°	66.4	73.5	92.5	99.6	84.2	91.3	92.5	98.4	130.4	212.3	215.8
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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REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	0°
2.5°	2067.0	2070.6	2078.9	2077.7	2083.6	2083.6	2083.6	2089.6	2086.0	2089.6	2095.5	2.5°
5°	2126.3	2132.3	2144.1	2144.1	2145.3	2141.7	2148.9	2153.6	2147.7	2145.3	2146.5	5°
7.5°	2212.9	2222.4	2231.9	2241.4	2248.5	2244.9	2246.1	2235.4	2233.1	2224.8	2214.1	7.5°
10°	2297.1	2323.2	2341.0	2357.6	2358.8	2355.2	2356.4	2338.6	2335.0	2318.4	2307.8	10°
12.5°	2383.7	2416.9	2445.3	2463.1	2473.8	2476.2	2477.4	2477.4	2460.8	2446.5	2421.6	12.5°
15°	2511.7	2569.9	2613.7	2632.7	2648.1	2662.4	2665.9	2670.7	2657.6	2638.6	2635.1	15°
17.5°	2714.5	2769.1	2827.2	2878.2	2912.6	2915.0	2944.6	2942.2	2969.5	2948.2	2942.2	17.5°
20°	2955.3	3073.9	3134.3	3201.9	3241.1	3260.1	3328.8	3307.5	3327.7	3362.0	3327.7	20°
22.5°	3256.5	3407.1	3494.9	3587.4	3651.4	3697.7	3747.5	3786.6	3841.1	3867.2	3843.5	22.5°
25°	3656.1	3828.1	3932.5	4060.5	4162.5	4245.5	4332.1	4436.5	4435.3	4498.1	4542.0	25°
27.5°	4115.1	4334.5	4486.3	4711.6	4799.4	4939.3	5087.5	5248.8	5277.3	5359.1	5400.6	27.5°
30°	4546.8	4818.3	5119.6	5387.6	5691.2	5898.7	6070.7	6184.5	6356.5	6313.8	6290.0	30°
32.5°	4945.2	5306.9	5736.2	6176.2	6657.7	6986.2	7289.8	7430.9	7537.6	7311.1	7011.1	32.5°
35°	5462.3	5895.1	6386.1	6929.2	7541.2	8007.2	8320.3	8364.2	8303.7	8013.2	7516.3	35°
37.5°	6102.7	6556.9	7115.4	7689.4	8339.3	8776.9	9133.8	9197.9	9037.8	8519.5	7997.7	37.5°
40°	6734.8	7267.2	7873.2	8552.8	9226.3	9707.8	10066.0	10084.9	9824.0	9218.0	8607.3	40°
42.5°	7426.1	8008.4	8683.2	9436.3	10132.4	10619.8	10878.3	10960.1	10591.3	9814.6	9228.7	42.5°
45°	8022.7	8718.8	9470.6	10271.1	10999.3	11461.8	11725.1	11699.0	11253.1	10485.8	9799.1	45°
47.5°	8603.7	9369.8	10162.0	11012.3	11735.7	12203.0	12473.4	12449.6	11884.0	11000.5	10245.0	47.5°
50°	9120.8	9952.1	10798.9	11707.3	12428.3	12856.4	13187.3	13082.9	12367.8	11414.3	10532.0	50°
52.5°	9480.1	10407.5	11292.2	12274.1	13016.5	13422.1	13843.1	13507.5	12653.6	11668.1	10686.2	52.5°
55°	9707.8	10720.6	11643.2	12729.5	13458.8	13943.9	14215.5	13738.7	12763.9	11738.1	10739.6	55°
57.5°	9862.0	10892.5	11849.6	12992.8	13857.3	14264.1	14330.5	13747.0	12692.8	11627.8	10686.2	57.5°
60°	9937.9	10943.5	11943.3	13177.8	14137.2	14360.1	14239.2	13554.9	12447.3	11304.1	10342.3	60°
62.5°	9929.6	10879.5	11894.6	13239.5	14192.9	14221.4	13946.3	13227.6	11995.4	10624.5	9770.7	62.5°
65°	9718.5	10645.9	11620.7	13010.6	13933.2	13811.1	13464.8	12613.3	11116.7	9737.5	9305.8	65°
67.5°	9110.1	9999.6	10904.4	12261.1	13201.5	13082.9	12558.7	11406.0	10095.6	8952.4	8720.0	67.5°
70°	8092.6	8846.9	9641.4	10833.3	11819.9	11659.8	10743.1	10042.3	9084.0	8045.2	7964.5	70°
72.5°	6765.6	7337.2	7913.5	8800.6	9480.1	9152.8	8576.5	8539.7	7765.3	6971.9	6988.5	72.5°
75°	5291.5	5720.8	5990.0	6511.8	6963.6	6670.7	6705.1	6909.1	6654.1	6029.1	5826.4	75°
77.5°	3834.0	4245.5	4330.9	4640.4	4958.3	5291.5	5732.7	6213.0	6293.6	5942.6	5207.3	77.5°
80°	2509.4	2962.4	2794.0	2904.3	3351.4	3959.7	4765.0	5556.0	5827.5	5512.1	4607.2	80°
82.5°	1480.0	2114.5	1846.5	2035.0	2318.4	2848.5	3404.7	4001.2	4455.4	4119.8	3848.3	82.5°
85°	1124.2	1667.4	1765.8	1994.7	2087.2	2109.7	2207.0	2401.5	2636.3	2724.0	2716.9	85°
87.5°	585.8	1296.2	1455.1	1346.0	1255.9	1088.7	849.1	914.3	836.1	1143.2	1082.7	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1981.6	1981.6	1981.6	1981.6	1981.6	1981.6	1981.6
2096.7	2093.1	2095.5	2096.7	2096.7	2096.7	2099.1
2145.3	2135.8	2132.3	2132.3	2131.1	2127.5	2126.3
2197.5	2180.9	2175.0	2167.8	2161.9	2158.3	2152.4
2291.2	2276.9	2247.3	2230.7	2215.3	2204.6	2195.1
2416.9	2396.7	2368.3	2346.9	2323.2	2316.1	2304.2
2611.4	2593.6	2568.7	2545.0	2530.7	2505.8	2488.0
2915.0	2879.4	2854.5	2823.6	2789.3	2738.3	2713.4
3314.6	3243.5	3193.6	3166.4	3097.6	3089.3	3028.8
3773.6	3752.2	3676.3	3643.1	3576.7	3550.6	3455.7
4460.2	4443.6	4288.2	4271.6	4169.6	4093.7	3946.7
5362.7	5226.3	5050.8	4928.6	4754.3	4558.6	4308.4
6151.3	5872.6	5604.6	5320.0	5079.2	4798.2	4514.7
6654.1	6280.6	5935.5	5643.7	5346.1	5011.6	4647.6
7095.3	6718.2	6342.2	5997.1	5636.6	5208.5	4759.0
7623.0	7248.3	6824.9	6339.9	5877.3	5353.2	4804.1
8163.8	7725.0	7196.1	6601.9	6020.8	5424.3	4795.8
8717.6	8156.7	7453.4	6776.3	6112.2	5435.0	4740.1
9167.1	8457.9	7644.3	6865.2	6131.1	5398.2	4670.1
9484.9	8651.2	7729.7	6896.0	6107.4	5340.1	4575.2
9666.3	8756.7	7751.1	6873.5	6058.8	5257.1	4472.1
9732.7	8788.7	7729.7	6827.3	6014.9	5168.2	4399.7
9725.6	8771.0	7651.5	6719.3	5897.5	5049.6	4310.8
9591.6	8606.1	7491.4	6590.1	5797.9	4995.0	4316.7
9363.9	8501.8	7443.9	6616.2	5850.1	5112.4	4504.1
9260.7	8710.5	7710.8	6877.1	6118.1	5448.1	4890.7
9202.6	9049.6	8092.6	7158.1	6435.9	5854.8	5352.0
8965.4	9146.9	8309.6	7318.2	6719.3	6262.8	5813.3
8582.4	8920.4	8144.8	7287.4	6875.9	6575.8	5979.3
7783.1	8140.1	7410.7	6833.2	6680.2	6580.6	5730.3
6305.5	6490.5	6075.4	5944.9	6001.9	6003.1	4806.5
4649.9	4538.5	4351.1	4360.6	4743.6	4684.3	3426.1
3796.1	3107.1	2841.4	2942.2	3415.4	3160.4	2152.4
3532.8	2771.5	2287.6	2311.3	2579.3	2036.2	1296.2
2856.8	2526.0	2025.5	1818.0	1764.6	1356.7	879.9
1195.4	1099.3	818.3	737.6	604.8	370.0	168.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)