

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: P159134

Luminaire Tested: **VST-F07-LED-E-U-SLR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159134
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-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (49) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14183.3 lumens
Efficiency: N/A
Efficacy: 78.6 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



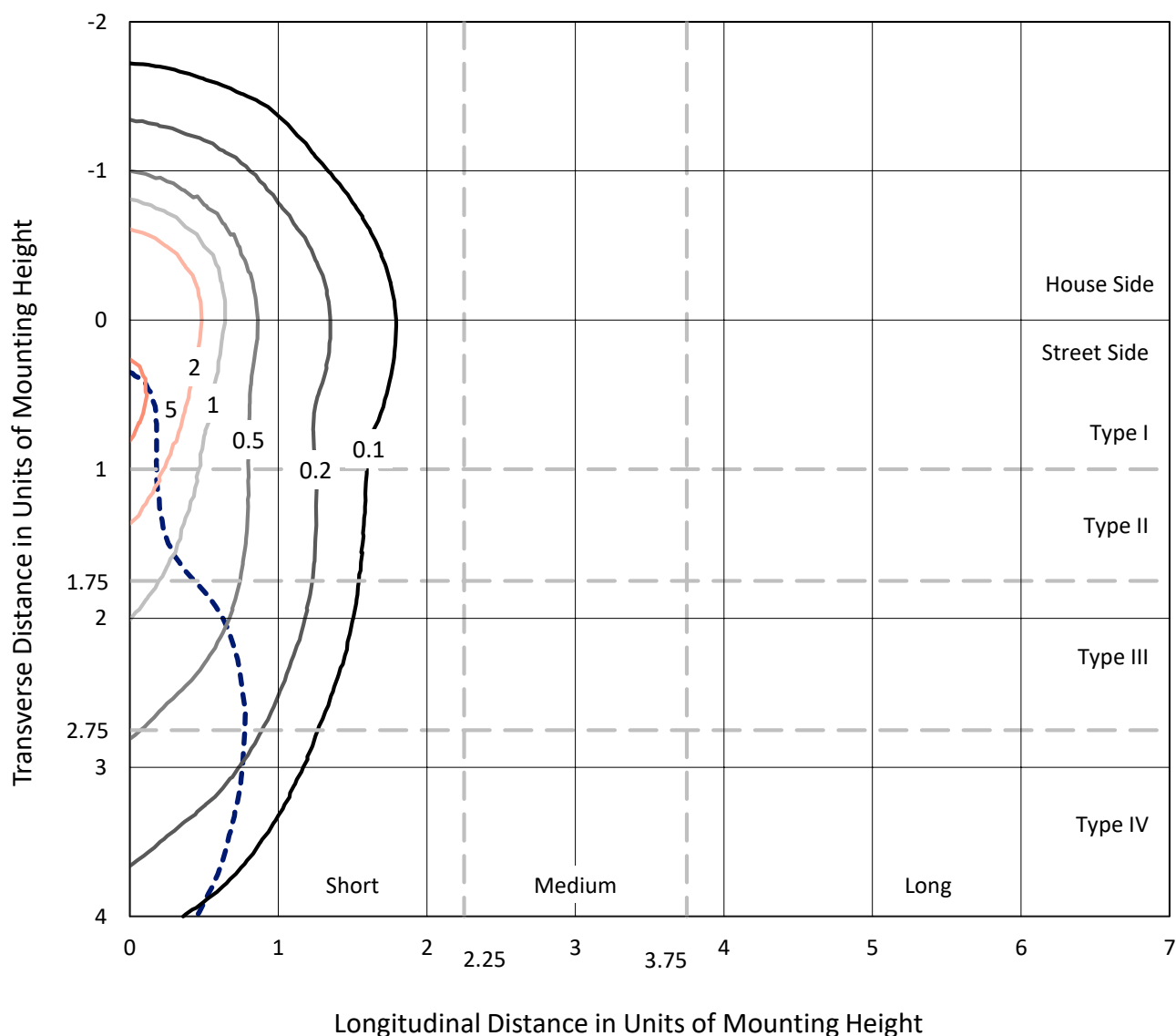
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

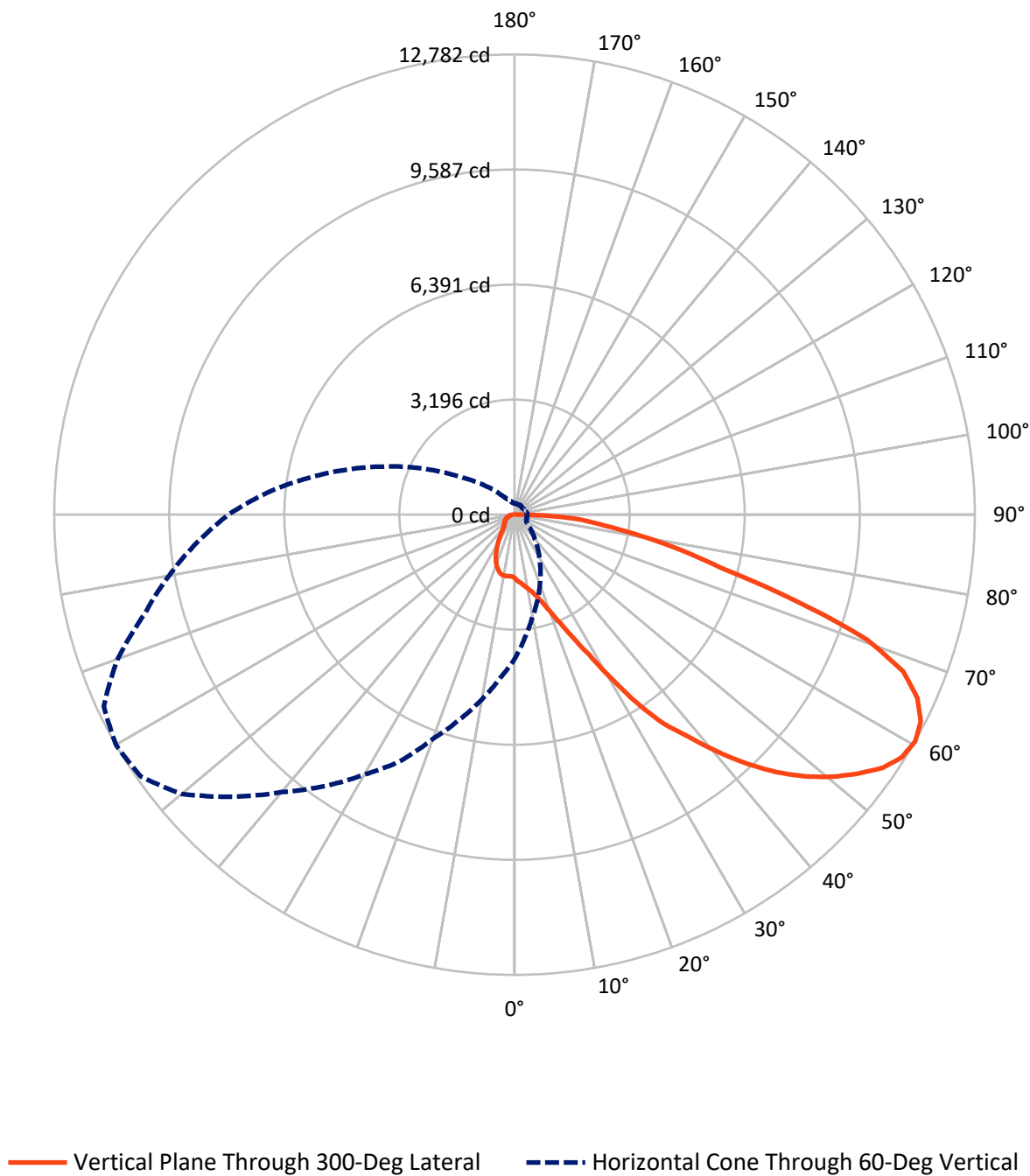


Based on 20 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3193.6	0.0	3193.6
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	10989.7	0.0	10989.7
	% Fixture	77.5	0.0	77.5
Total	Lumens	14183.3	0.0	14183.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.0	1.2
10°-20°	561.9	4.0
20°-30°	1066.2	7.5
30°-40°	1679.1	11.8
40°-50°	2343.6	16.5
50°-60°	2898.5	20.4
60°-70°	3004.4	21.2
70°-80°	1890.5	13.3
80°-90°	565.1	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°	14183.3	100.0
0°-180°	14183.3	100.0

Coefficient of Utilization



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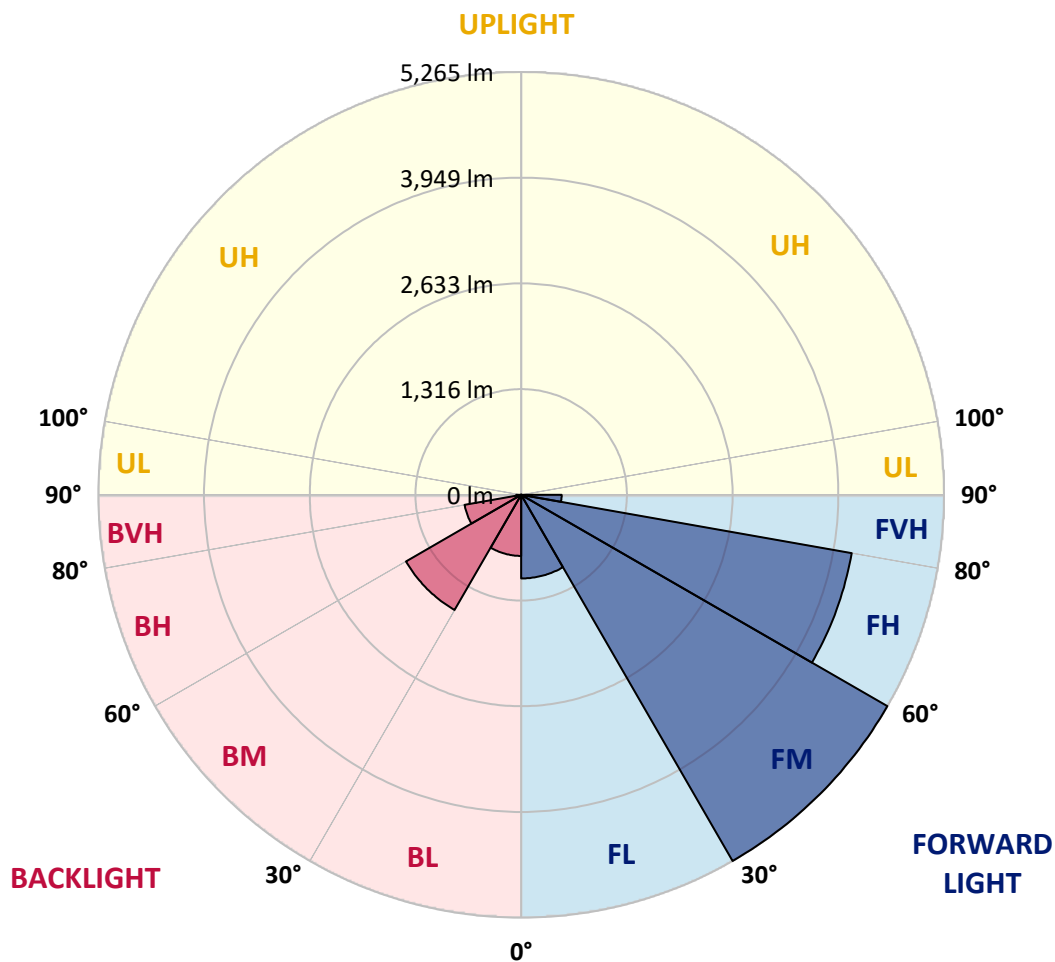
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1041.3	7.3			
FM	(30°-60°)	5265.1	37.1			
FH	(60°-80°)	4179.7	29.5			G2/5000
FVH	(80°-90°)	503.6	3.6			G4/750
BL	(0°-30°)	760.8	5.4	B2/1000		
BM	(30°-60°)	1656.1	11.7	B2/2500		
BH	(60°-80°)	715.2	5.0	B2/1000		G2/1000
BVH	(80°-90°)	61.5	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°	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9
2.5°	1868.4	1756.5	1758.6	1755.4	1755.4	1753.3	1755.4	1753.3	1751.2	1751.2	1752.3
5°	1892.7	1769.2	1769.2	1766.0	1763.9	1761.8	1763.9	1761.8	1760.7	1758.6	1759.7
7.5°	1915.9	1776.6	1772.3	1768.1	1762.8	1764.9	1764.9	1763.9	1764.9	1763.9	1766.0
10°	1953.9	1800.8	1790.3	1780.8	1779.7	1777.6	1777.6	1774.4	1774.4	1772.3	1773.4
12.5°	2051.0	1875.8	1864.2	1847.3	1844.1	1834.6	1829.3	1823.0	1812.4	1802.9	1795.6
15°	2214.6	2000.3	1978.2	1963.4	1957.1	1938.1	1908.5	1885.3	1854.7	1828.3	1800.8
17.5°	2415.2	2167.1	2140.7	2121.7	2090.1	2038.3	1988.7	1931.7	1872.6	1818.8	1769.2
20°	2696.0	2406.7	2355.0	2309.6	2230.5	2141.8	2048.9	1949.7	1858.9	1774.4	1701.6
22.5°	3076.0	2716.0	2620.0	2498.6	2351.9	2202.0	2054.2	1917.0	1795.6	1685.8	1588.7
25°	3513.0	3011.6	2838.5	2629.5	2404.6	2197.7	2003.5	1827.2	1685.8	1544.3	1438.8
27.5°	3835.0	3258.6	3003.2	2728.7	2441.6	2177.7	1939.1	1725.9	1554.9	1410.3	1282.5
30°	4018.6	3400.1	3092.9	2770.9	2447.9	2143.9	1857.8	1610.8	1413.4	1241.4	1118.9
32.5°	4136.9	3476.1	3102.4	2728.7	2371.9	2043.6	1734.3	1477.8	1263.5	1079.9	950.0
35°	4236.1	3506.7	3058.0	2634.8	2228.4	1891.6	1576.0	1319.5	1092.5	923.6	790.6
37.5°	4276.2	3501.4	2987.3	2509.1	2088.0	1725.9	1414.5	1151.6	949.0	800.1	686.1
40°	4268.8	3452.8	2891.3	2375.1	1923.3	1552.8	1243.5	1012.3	847.6	722.0	638.6
42.5°	4219.2	3388.4	2784.6	2238.9	1772.3	1409.2	1127.4	922.6	789.6	694.6	621.7
45°	4156.9	3311.4	2687.5	2114.3	1653.1	1306.8	1059.8	897.3	782.2	691.4	613.3
47.5°	4072.5	3225.9	2589.4	2025.7	1589.7	1276.2	1058.8	912.0	788.5	684.0	598.5
50°	3980.6	3163.6	2535.5	1987.7	1582.3	1295.2	1095.7	935.3	792.7	676.6	578.5
52.5°	3916.2	3136.2	2534.5	2001.4	1621.4	1348.0	1139.0	964.8	808.6	680.9	574.2
55°	3837.1	3131.9	2561.9	2060.5	1706.9	1437.7	1207.6	1015.5	841.3	696.7	577.4
57.5°	3842.4	3215.3	2668.5	2206.2	1861.0	1559.1	1295.2	1077.8	873.0	706.2	572.1
60°	4009.1	3409.6	2878.6	2455.3	2062.6	1701.6	1384.9	1111.5	870.9	685.1	546.8
62.5°	4353.3	3700.9	3193.2	2747.7	2267.4	1811.4	1417.7	1102.0	839.2	639.7	505.6
65°	4763.9	4041.9	3499.3	2974.7	2392.0	1836.7	1389.2	1049.3	775.9	580.6	456.0
67.5°	5174.5	4283.6	3675.6	3039.0	2341.3	1734.3	1283.6	931.0	668.2	500.4	400.1
70°	5322.3	4333.2	3661.8	2894.4	2111.2	1479.9	1056.6	749.5	536.2	409.6	336.7
72.5°	5100.6	4022.9	3255.4	2459.5	1716.4	1147.4	774.8	553.1	409.6	320.9	274.5
75°	4278.3	3239.6	2573.5	1852.6	1239.3	811.7	559.5	403.2	308.2	254.4	219.6
77.5°	3049.6	2255.8	1753.3	1217.1	804.4	562.6	401.1	303.0	244.9	203.7	178.4
80°	1915.9	1384.9	1068.3	730.5	501.4	382.1	288.2	239.6	197.4	165.7	148.8
82.5°	1153.8	806.5	629.1	453.9	329.3	261.8	212.2	187.9	157.3	137.2	127.7
85°	783.2	593.2	412.7	268.1	198.5	154.1	144.6	129.8	117.2	98.2	95.0
87.5°	149.9	212.2	184.7	109.8	72.8	62.3	54.9	52.8	47.5	38.0	43.3
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°	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9
2.5°	1745.9	1743.8	1739.6	1739.6	1736.4	1730.1	1729.1	1724.8	1719.6	1720.6	1719.6
5°	1752.3	1748.1	1742.8	1740.7	1736.4	1730.1	1726.9	1721.7	1716.4	1716.4	1716.4
7.5°	1759.7	1754.4	1750.2	1742.8	1734.3	1728.0	1719.6	1713.2	1710.1	1709.0	1710.1
10°	1766.0	1762.8	1756.5	1745.9	1734.3	1721.7	1713.2	1704.8	1696.3	1697.4	1698.4
12.5°	1779.7	1769.2	1752.3	1736.4	1718.5	1702.7	1687.9	1677.3	1666.8	1666.8	1667.8
15°	1770.2	1739.6	1716.4	1685.8	1665.7	1640.4	1623.5	1614.0	1607.7	1605.6	1606.6
17.5°	1714.3	1677.3	1642.5	1615.1	1587.6	1567.6	1560.2	1553.8	1545.4	1549.6	1545.4
20°	1629.8	1584.4	1534.8	1502.1	1469.4	1455.7	1443.0	1436.7	1431.4	1450.4	1450.4
22.5°	1508.4	1453.5	1402.9	1362.8	1325.8	1311.0	1298.4	1291.0	1294.2	1317.4	1319.5
25°	1355.4	1288.9	1222.4	1198.1	1161.1	1149.5	1142.1	1141.1	1144.3	1167.5	1172.8
27.5°	1192.8	1123.1	1066.1	1010.2	993.3	983.8	970.1	985.9	989.1	1014.4	1025.0
30°	1019.7	944.8	884.6	847.6	811.7	817.0	805.4	824.4	832.9	859.3	867.7
32.5°	842.4	771.6	711.5	674.5	649.2	652.4	643.9	660.8	669.2	700.9	716.7
35°	696.7	636.5	588.0	556.3	544.7	533.1	531.0	533.1	541.5	565.8	594.3
37.5°	613.3	563.7	528.9	505.6	489.8	482.4	478.2	478.2	478.2	483.5	497.2
40°	577.4	533.1	502.5	480.3	469.7	465.5	462.3	459.2	453.9	451.8	452.8
42.5°	561.6	510.9	478.2	461.3	455.0	455.0	455.0	452.8	447.6	442.3	437.0
45°	545.7	490.8	458.1	446.5	443.3	444.4	444.4	444.4	440.2	433.8	424.3
47.5°	525.7	468.7	436.0	428.6	428.6	431.7	432.8	432.8	428.6	422.2	414.8
50°	501.4	440.2	410.6	404.3	401.1	401.1	401.1	401.1	398.0	393.7	388.5
52.5°	488.7	424.3	393.7	387.4	387.4	384.2	383.2	380.0	376.8	373.7	366.3
55°	484.5	418.0	386.3	381.1	381.1	377.9	374.7	371.6	366.3	361.0	353.6
57.5°	472.9	404.3	376.8	372.6	372.6	370.5	367.3	364.2	358.9	351.5	342.0
60°	446.5	381.1	357.8	356.8	356.8	355.7	353.6	353.6	348.3	341.0	329.3
62.5°	412.7	356.8	334.6	334.6	333.6	332.5	328.3	327.2	320.9	311.4	300.8
65°	380.0	335.7	320.9	316.7	314.6	311.4	309.3	304.0	298.7	290.3	279.7
67.5°	338.8	304.0	294.5	290.3	286.1	282.9	279.7	276.6	270.2	263.9	255.5
70°	294.5	269.2	263.9	262.8	257.6	254.4	253.3	250.2	243.8	237.5	227.0
72.5°	252.3	237.5	233.3	233.3	227.0	222.7	220.6	219.6	215.3	210.1	200.6
75°	203.7	193.2	192.1	197.4	197.4	194.2	192.1	194.2	187.9	184.7	175.2
77.5°	166.8	161.5	158.3	160.4	166.8	163.6	159.4	159.4	159.4	154.1	150.9
80°	141.4	137.2	134.1	136.2	135.1	134.1	131.9	127.7	127.7	127.7	126.7
82.5°	127.7	126.7	115.1	115.1	110.8	107.7	105.6	103.4	101.3	101.3	106.6
85°	96.1	99.2	92.9	91.8	86.6	82.3	78.1	76.0	73.9	77.1	87.6
87.5°	46.4	46.4	44.3	49.6	45.4	43.3	40.1	38.0	40.1	49.6	59.1
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°	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9
2.5°	1717.4	1716.4	1715.3	1713.2	1709.0	1707.9	1705.8	1705.8	1704.8	1702.7	1704.8
5°	1714.3	1716.4	1716.4	1715.3	1712.2	1714.3	1714.3	1717.4	1717.4	1719.6	1724.8
7.5°	1710.1	1715.3	1719.6	1722.7	1726.9	1730.1	1736.4	1745.9	1750.2	1757.6	1760.7
10°	1701.6	1711.1	1718.5	1728.0	1738.6	1750.2	1759.7	1774.4	1779.7	1790.3	1795.6
12.5°	1677.3	1693.2	1705.8	1724.8	1742.8	1760.7	1777.6	1796.6	1806.1	1817.7	1825.1
15°	1618.2	1636.2	1654.1	1671.0	1702.7	1737.5	1764.9	1790.3	1804.0	1818.8	1826.2
17.5°	1547.5	1559.1	1573.9	1596.1	1626.7	1657.3	1701.6	1737.5	1758.6	1775.5	1777.6
20°	1465.2	1482.0	1492.6	1501.1	1525.3	1546.4	1593.9	1635.1	1662.6	1682.6	1687.9
22.5°	1339.5	1357.5	1375.4	1381.8	1400.8	1428.2	1454.6	1498.9	1538.0	1567.6	1585.5
25°	1196.0	1212.9	1237.2	1256.2	1260.4	1282.5	1308.9	1359.6	1399.7	1447.2	1468.3
27.5°	1052.4	1067.2	1093.6	1104.1	1116.8	1139.0	1160.1	1202.3	1244.5	1299.4	1322.7
30°	884.6	916.3	946.9	966.9	977.5	1003.9	1018.6	1059.8	1098.9	1139.0	1172.8
32.5°	741.0	769.5	804.4	829.7	842.4	862.4	885.6	920.5	951.1	990.1	1029.2
35°	609.1	648.1	671.4	693.5	726.2	735.7	759.0	790.6	808.6	850.8	895.1
37.5°	516.2	539.4	562.6	584.8	612.2	624.9	647.1	673.5	694.6	719.9	760.0
40°	459.2	471.8	488.7	503.5	523.6	539.4	551.0	573.2	589.0	614.4	642.9
42.5°	432.8	436.0	438.1	448.6	459.2	469.7	482.4	491.9	510.9	529.9	547.9
45°	418.0	411.7	408.5	409.6	413.8	420.1	430.7	441.2	453.9	465.5	476.1
47.5°	405.3	396.9	387.4	382.1	383.2	385.3	393.7	402.2	408.5	418.0	422.2
50°	375.8	368.4	360.0	352.6	353.6	354.7	362.1	368.4	372.6	375.8	381.1
52.5°	356.8	346.2	338.8	331.5	330.4	333.6	339.9	346.2	348.3	350.5	351.5
55°	343.1	332.5	323.0	315.6	312.5	319.8	322.0	330.4	333.6	333.6	334.6
57.5°	332.5	319.8	310.3	303.0	297.7	303.0	308.2	317.7	318.8	316.7	316.7
60°	316.7	307.2	297.7	290.3	285.0	289.2	293.5	304.0	304.0	298.7	297.7
62.5°	289.2	284.0	277.6	274.5	273.4	277.6	280.8	289.2	286.1	279.7	277.6
65°	269.2	265.0	258.6	256.5	255.5	261.8	262.8	268.1	263.9	260.7	259.7
67.5°	244.9	241.7	238.6	237.5	234.3	234.3	236.5	239.6	237.5	237.5	238.6
70°	217.5	213.2	210.1	211.1	209.0	209.0	210.1	212.2	211.1	213.2	215.3
72.5°	192.1	186.8	185.8	185.8	183.7	184.7	184.7	185.8	187.9	189.0	194.2
75°	167.8	162.6	162.6	161.5	161.5	161.5	162.6	164.7	166.8	167.8	170.0
77.5°	145.7	142.5	143.6	142.5	142.5	142.5	142.5	145.7	146.7	147.8	150.9
80°	125.6	125.6	126.7	126.7	125.6	124.6	125.6	127.7	128.8	129.8	130.9
82.5°	114.0	115.1	115.1	115.1	109.8	107.7	110.8	112.9	115.1	116.1	118.2
85°	98.2	93.9	98.2	97.1	89.7	88.7	88.7	89.7	91.8	89.7	89.7
87.5°	63.3	57.0	60.2	60.2	52.8	43.3	54.9	59.1	52.8	55.9	55.9
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°	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9
2.5°	1707.9	1705.8	1706.9	1706.9	1709.0	1705.8	1710.1	1714.3	1715.3	1715.3	1716.4
5°	1730.1	1728.0	1735.4	1732.2	1739.6	1738.6	1743.8	1748.1	1750.2	1750.2	1750.2
7.5°	1764.9	1772.3	1776.6	1788.2	1789.2	1795.6	1800.8	1806.1	1804.0	1805.1	1804.0
10°	1804.0	1813.5	1824.1	1835.7	1836.7	1844.1	1852.6	1857.8	1855.7	1854.7	1851.5
12.5°	1837.8	1844.1	1856.8	1868.4	1874.7	1886.3	1894.8	1899.0	1899.0	1895.8	1892.7
15°	1835.7	1845.2	1858.9	1875.8	1887.4	1904.3	1919.1	1928.6	1929.6	1926.5	1925.4
17.5°	1789.2	1802.9	1815.6	1838.8	1860.0	1883.2	1907.5	1921.2	1933.8	1941.2	1945.5
20°	1705.8	1722.7	1740.7	1771.3	1799.8	1830.4	1858.9	1879.0	1898.0	1920.1	1946.5
22.5°	1607.7	1633.0	1658.3	1697.4	1732.2	1767.1	1799.8	1824.1	1853.6	1891.6	1941.2
25°	1492.6	1519.0	1550.7	1596.1	1640.4	1691.1	1739.6	1788.2	1845.2	1910.6	1987.7
27.5°	1356.4	1386.0	1427.2	1482.0	1532.7	1584.4	1660.4	1737.5	1830.4	1914.8	2002.5
30°	1221.3	1259.3	1303.7	1358.5	1409.2	1483.1	1559.1	1654.1	1752.3	1847.3	1951.8
32.5°	1075.6	1123.1	1178.0	1223.4	1280.4	1355.4	1431.4	1532.7	1637.2	1749.1	1864.2
35°	935.3	980.6	1023.9	1074.6	1131.6	1202.3	1276.2	1373.3	1505.3	1624.6	1761.8
37.5°	792.7	835.0	865.6	905.7	955.3	1033.4	1112.6	1224.5	1349.0	1495.8	1633.0
40°	668.2	703.0	737.9	769.5	811.7	885.6	970.1	1079.9	1202.3	1344.8	1497.9
42.5°	569.0	595.4	633.4	671.4	707.2	770.6	849.8	957.4	1078.8	1224.5	1377.5
45°	485.6	503.5	534.1	565.8	610.1	662.9	738.9	848.7	972.2	1118.9	1280.4
47.5°	425.4	433.8	455.0	487.7	528.9	580.6	646.0	745.2	865.6	1013.4	1183.3
50°	384.2	393.7	404.3	431.7	468.7	521.5	575.3	661.9	771.6	916.3	1085.1
52.5°	355.7	360.0	364.2	381.1	414.8	459.2	516.2	581.6	692.5	830.8	982.8
55°	338.8	339.9	343.1	351.5	376.8	418.0	467.6	529.9	616.5	747.4	902.5
57.5°	318.8	320.9	324.1	329.3	345.2	382.1	424.3	475.0	546.8	656.6	805.4
60°	299.8	305.1	310.3	313.5	322.0	344.1	380.0	420.1	478.2	560.5	678.7
62.5°	279.7	286.1	290.3	293.5	296.6	310.3	336.7	363.1	399.0	452.8	541.5
65°	261.8	266.0	269.2	271.3	273.4	277.6	289.2	299.8	310.3	343.1	407.5
67.5°	241.7	243.8	244.9	246.0	244.9	244.9	246.0	250.2	254.4	267.1	297.7
70°	218.5	221.7	221.7	222.7	222.7	219.6	219.6	219.6	219.6	222.7	239.6
72.5°	196.3	200.6	200.6	201.6	200.6	199.5	199.5	199.5	202.7	204.8	211.1
75°	175.2	179.5	178.4	179.5	180.5	180.5	182.6	183.7	186.8	187.9	192.1
77.5°	154.1	157.3	158.3	157.3	159.4	161.5	165.7	167.8	168.9	170.0	171.0
80°	134.1	136.2	135.1	131.9	137.2	140.4	146.7	154.1	152.0	153.1	155.2
82.5°	110.8	107.7	105.6	107.7	110.8	115.1	121.4	130.9	131.9	137.2	136.2
85°	85.5	76.0	74.9	80.2	79.2	84.4	95.0	102.4	108.7	114.0	108.7
87.5°	50.7	45.4	38.0	35.9	39.1	51.7	53.8	65.4	70.7	72.8	65.4
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9
2.5°	1812.4	1817.7	1817.7	1819.8	1823.0	1824.1	1828.3	1835.7	1836.7	1836.7	1839.9
5°	1846.2	1851.5	1851.5	1855.7	1856.8	1862.1	1867.3	1875.8	1880.0	1879.0	1892.7
7.5°	1901.1	1896.9	1893.7	1900.1	1903.2	1909.6	1920.1	1927.5	1934.9	1946.5	1965.5
10°	1947.6	1941.2	1938.1	1942.3	1944.4	1951.8	1958.1	1968.7	1986.6	2004.6	2027.8
12.5°	1985.6	1978.2	1969.7	1971.8	1975.0	1984.5	1995.1	2008.8	2035.2	2058.4	2093.2
15°	2017.2	2006.7	1998.2	2002.5	2009.8	2022.5	2040.5	2064.7	2108.0	2148.1	2194.6
17.5°	2047.8	2045.7	2042.6	2056.3	2061.6	2091.1	2117.5	2161.9	2221.0	2281.1	2347.6
20°	2077.4	2100.6	2112.2	2139.7	2156.6	2196.7	2236.8	2290.6	2365.6	2447.9	2538.7
22.5°	2118.6	2181.9	2221.0	2276.9	2305.4	2348.7	2407.8	2478.5	2561.9	2667.5	2783.6
25°	2216.7	2309.6	2387.7	2475.4	2547.1	2613.6	2684.4	2769.9	2890.2	2986.3	3138.3
27.5°	2260.0	2390.9	2508.1	2631.6	2739.3	2841.7	2953.5	3057.0	3199.5	3329.3	3513.0
30°	2218.9	2366.6	2518.6	2680.1	2837.4	2992.6	3155.2	3313.5	3478.2	3659.7	3855.0
32.5°	2142.8	2308.6	2479.6	2669.6	2864.9	3066.5	3277.6	3507.7	3740.0	3965.9	4165.4
35°	2065.8	2244.2	2434.2	2651.6	2881.8	3131.9	3393.7	3685.1	3992.2	4278.3	4539.0
37.5°	1953.9	2150.2	2367.7	2618.9	2892.3	3200.6	3537.3	3896.2	4284.6	4678.4	5020.4
40°	1818.8	2026.7	2264.2	2553.5	2881.8	3271.3	3709.3	4169.6	4668.9	5149.2	5569.3
42.5°	1695.3	1898.0	2151.3	2465.9	2854.3	3333.6	3873.0	4446.1	5037.3	5574.6	6123.5
45°	1586.6	1810.3	2064.7	2404.6	2840.6	3386.3	3994.4	4653.0	5329.7	5969.4	6617.5
47.5°	1487.3	1719.6	2004.6	2370.9	2834.3	3418.0	4078.8	4788.2	5537.6	6272.3	7025.0
50°	1384.9	1610.8	1915.9	2333.9	2818.4	3416.9	4123.1	4880.0	5683.3	6507.7	7305.7
52.5°	1275.2	1502.1	1808.2	2266.4	2784.6	3397.9	4134.7	4942.3	5798.4	6652.3	7544.3
55°	1174.9	1387.0	1693.2	2153.4	2713.9	3351.5	4108.4	4968.7	5879.6	6795.9	7712.1
57.5°	1059.8	1280.4	1571.8	1998.2	2580.9	3269.2	4033.4	4931.7	5902.9	6892.0	7845.2
60°	901.5	1117.9	1417.7	1814.6	2373.0	3095.0	3894.1	4819.8	5829.0	6908.8	7940.2
62.5°	719.9	906.8	1196.0	1561.2	2080.6	2821.6	3636.5	4568.6	5598.9	6750.5	7891.6
65°	535.2	659.7	908.9	1229.8	1741.7	2409.9	3221.7	4147.4	5149.2	6310.3	7586.5
67.5°	372.6	462.3	615.4	854.0	1266.7	1861.0	2629.5	3489.8	4453.5	5495.4	6953.2
70°	281.8	323.0	406.4	539.4	820.2	1267.8	1911.7	2678.0	3572.1	4576.0	5949.3
72.5°	240.7	261.8	308.2	369.5	502.5	770.6	1200.2	1843.1	2635.8	3452.8	4564.4
75°	216.4	234.3	263.9	303.0	355.7	467.6	704.1	1166.4	1745.9	2312.8	3184.7
77.5°	196.3	212.2	238.6	258.6	287.1	336.7	448.6	697.7	1046.1	1429.3	1976.1
80°	175.2	184.7	209.0	229.1	251.2	279.7	322.0	438.1	600.6	846.6	1165.4
82.5°	149.9	157.3	175.2	202.7	219.6	231.2	243.8	290.3	360.0	459.2	647.1
85°	116.1	121.4	137.2	157.3	164.7	165.7	167.8	180.5	223.8	344.1	557.4
87.5°	59.1	65.4	82.3	88.7	74.9	81.3	82.3	87.6	116.1	189.0	192.1
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°	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	0°
2.5°	1839.9	1843.1	1850.5	1849.4	1854.7	1854.7	1854.7	1860.0	1856.8	1860.0	1865.2	2.5°
5°	1892.7	1898.0	1908.5	1908.5	1909.6	1906.4	1912.7	1917.0	1911.7	1909.6	1910.6	5°
7.5°	1969.7	1978.2	1986.6	1995.1	2001.4	1998.2	1999.3	1989.8	1987.7	1980.3	1970.8	7.5°
10°	2044.7	2067.9	2083.7	2098.5	2099.6	2096.4	2097.5	2081.6	2078.5	2063.7	2054.2	10°
12.5°	2121.7	2151.3	2176.6	2192.5	2202.0	2204.1	2205.1	2205.1	2190.4	2177.7	2155.5	12.5°
15°	2235.7	2287.5	2326.5	2343.4	2357.1	2369.8	2373.0	2377.2	2365.6	2348.7	2345.5	15°
17.5°	2416.2	2464.8	2516.5	2561.9	2592.5	2594.6	2621.0	2618.9	2643.2	2624.2	2618.9	17.5°
20°	2630.5	2736.1	2789.9	2850.1	2884.9	2901.8	2963.0	2944.0	2962.0	2992.6	2962.0	20°
22.5°	2898.7	3032.7	3110.8	3193.2	3250.2	3291.3	3335.7	3370.5	3419.1	3442.3	3421.2	22.5°
25°	3254.4	3407.4	3500.3	3614.3	3705.1	3779.0	3856.1	3949.0	3947.9	4003.9	4042.9	25°
27.5°	3662.9	3858.2	3993.3	4193.9	4272.0	4396.5	4528.5	4672.0	4697.4	4770.2	4807.2	27.5°
30°	4047.1	4288.9	4557.0	4795.5	5065.8	5250.5	5403.6	5504.9	5658.0	5620.0	5598.9	30°
32.5°	4401.8	4723.8	5105.9	5497.5	5926.1	6218.5	6488.7	6614.3	6709.3	6507.7	6240.7	32.5°
35°	4862.1	5247.3	5684.4	6167.8	6712.5	7127.3	7406.0	7445.1	7391.2	7132.6	6690.3	35°
37.5°	5432.1	5836.4	6333.5	6844.5	7422.9	7812.4	8130.2	8187.2	8044.7	7583.4	7118.9	37.5°
40°	5994.7	6468.7	7008.1	7612.9	8212.5	8641.1	8959.9	8976.7	8744.5	8205.1	7661.5	40°
42.5°	6610.1	7128.4	7729.0	8399.3	9019.0	9452.8	9682.9	9755.8	9427.5	8736.1	8214.6	42.5°
45°	7141.1	7760.7	8429.9	9142.5	9790.6	10202.3	10436.6	10413.4	10016.5	9333.5	8722.3	45°
47.5°	7658.3	8340.2	9045.4	9802.2	10446.1	10862.0	11102.7	11081.6	10578.1	9791.7	9119.2	47.5°
50°	8118.5	8858.5	9612.2	10420.8	11062.6	11443.7	11738.2	11645.3	11008.8	10160.1	9374.7	50°
52.5°	8438.4	9263.9	10051.3	10925.4	11586.2	11947.2	12321.9	12023.2	11263.2	10386.0	9511.9	52.5°
55°	8641.1	9542.5	10363.8	11330.7	11979.9	12411.6	12653.4	12229.0	11361.3	10448.2	9559.4	55°
57.5°	8778.3	9695.6	10547.5	11565.1	12334.6	12696.6	12755.8	12236.4	11298.0	10350.1	9511.9	57.5°
60°	8845.9	9741.0	10630.9	11729.7	12583.7	12782.1	12674.5	12065.4	11079.5	10061.9	9205.8	60°
62.5°	8838.5	9684.0	10587.6	11784.6	12633.3	12658.6	12413.7	11774.1	10677.3	9457.0	8697.0	62.5°
65°	8650.6	9476.0	10343.7	11580.9	12402.1	12293.4	11985.2	11227.3	9895.1	8667.5	8283.2	65°
67.5°	8109.0	8900.7	9706.2	10913.8	11750.8	11645.3	11178.7	10152.7	8986.2	7968.7	7761.8	67.5°
70°	7203.4	7874.7	8582.0	9642.8	10521.1	10378.6	9562.6	8938.7	8085.8	7161.1	7089.3	70°
72.5°	6022.1	6530.9	7044.0	7833.5	8438.4	8147.1	7634.0	7601.3	6912.0	6205.8	6220.6	72.5°
75°	4710.0	5092.2	5331.8	5796.2	6198.4	5937.7	5968.3	6149.9	5922.9	5366.6	5186.1	75°
77.5°	3412.7	3779.0	3855.0	4130.5	4413.4	4710.0	5102.7	5530.2	5602.0	5289.6	4635.1	77.5°
80°	2233.6	2636.9	2487.0	2585.1	2983.1	3524.6	4241.4	4945.4	5187.2	4906.4	4101.0	80°
82.5°	1317.4	1882.1	1643.6	1811.4	2063.7	2535.5	3030.6	3561.6	3965.9	3667.1	3425.4	82.5°
85°	1000.7	1484.2	1571.8	1775.5	1857.8	1877.9	1964.5	2137.6	2346.6	2424.7	2418.4	85°
87.5°	521.5	1153.8	1295.2	1198.1	1117.9	969.0	755.8	813.9	744.2	1017.6	963.8	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°
1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9
1866.3	1863.1	1865.2	1866.3	1866.3	1866.3	1868.4
1909.6	1901.1	1898.0	1898.0	1896.9	1893.7	1892.7
1956.0	1941.2	1936.0	1929.6	1924.3	1921.2	1915.9
2039.4	2026.7	2000.3	1985.6	1971.8	1962.3	1953.9
2151.3	2133.3	2108.0	2089.0	2067.9	2061.6	2051.0
2324.4	2308.6	2286.4	2265.3	2252.6	2230.5	2214.6
2594.6	2563.0	2540.8	2513.4	2482.7	2437.4	2415.2
2950.4	2887.0	2842.7	2818.4	2757.2	2749.8	2696.0
3358.9	3339.9	3272.3	3242.8	3183.7	3160.4	3076.0
3970.1	3955.3	3817.0	3802.2	3711.5	3643.9	3513.0
4773.4	4652.0	4495.8	4387.0	4231.9	4057.7	3835.0
5475.3	5227.3	4988.7	4735.4	4521.1	4270.9	4018.6
5922.9	5590.4	5283.2	5023.6	4758.6	4460.9	4136.9
6315.6	5979.9	5645.3	5338.1	5017.2	4636.2	4236.1
6785.3	6451.8	6074.9	5643.2	5231.5	4764.9	4276.2
7266.7	6876.1	6405.3	5876.5	5359.2	4828.3	4268.8
7759.6	7260.4	6634.4	6031.6	5440.5	4837.8	4219.2
8159.7	7528.5	6804.3	6110.8	5457.4	4805.0	4156.9
8442.6	7700.5	6880.3	6138.3	5436.3	4753.3	4072.5
8604.1	7794.5	6899.3	6118.2	5393.0	4679.4	3980.6
8663.2	7823.0	6880.3	6077.0	5354.0	4600.3	3916.2
8656.9	7807.1	6810.7	5981.0	5249.5	4494.7	3837.1
8537.6	7660.4	6668.2	5865.9	5160.8	4446.1	3842.4
8334.9	7567.5	6625.9	5889.1	5207.2	4550.7	4009.1
8243.1	7753.3	6863.5	6121.4	5445.8	4849.4	4353.3
8191.4	8055.2	7203.4	6371.5	5728.7	5211.5	4763.9
7980.3	8141.8	7396.5	6514.1	5981.0	5574.6	5174.5
7639.3	7940.2	7249.8	6486.6	6120.3	5853.3	5322.3
6927.8	7245.6	6596.4	6082.3	5946.1	5857.5	5100.6
5612.6	5777.2	5407.8	5291.7	5342.3	5343.4	4278.3
4139.0	4039.7	3873.0	3881.4	4222.4	4169.6	3049.6
3378.9	2765.6	2529.2	2618.9	3040.1	2813.1	1915.9
3144.6	2466.9	2036.2	2057.3	2295.9	1812.4	1153.8
2542.9	2248.4	1802.9	1618.2	1570.7	1207.6	783.2
1064.0	978.5	728.4	656.6	538.4	329.3	149.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)