

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: McGRAW-EDISON

Report Number: P159033

Luminaire Tested: **VTS-F08-LED-E1-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159033
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: MCGRAW-EDISON
Catalog Number: VTS-F08-LED-E1-SLR-8030
Description: VENTUS LED SITE LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (56) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

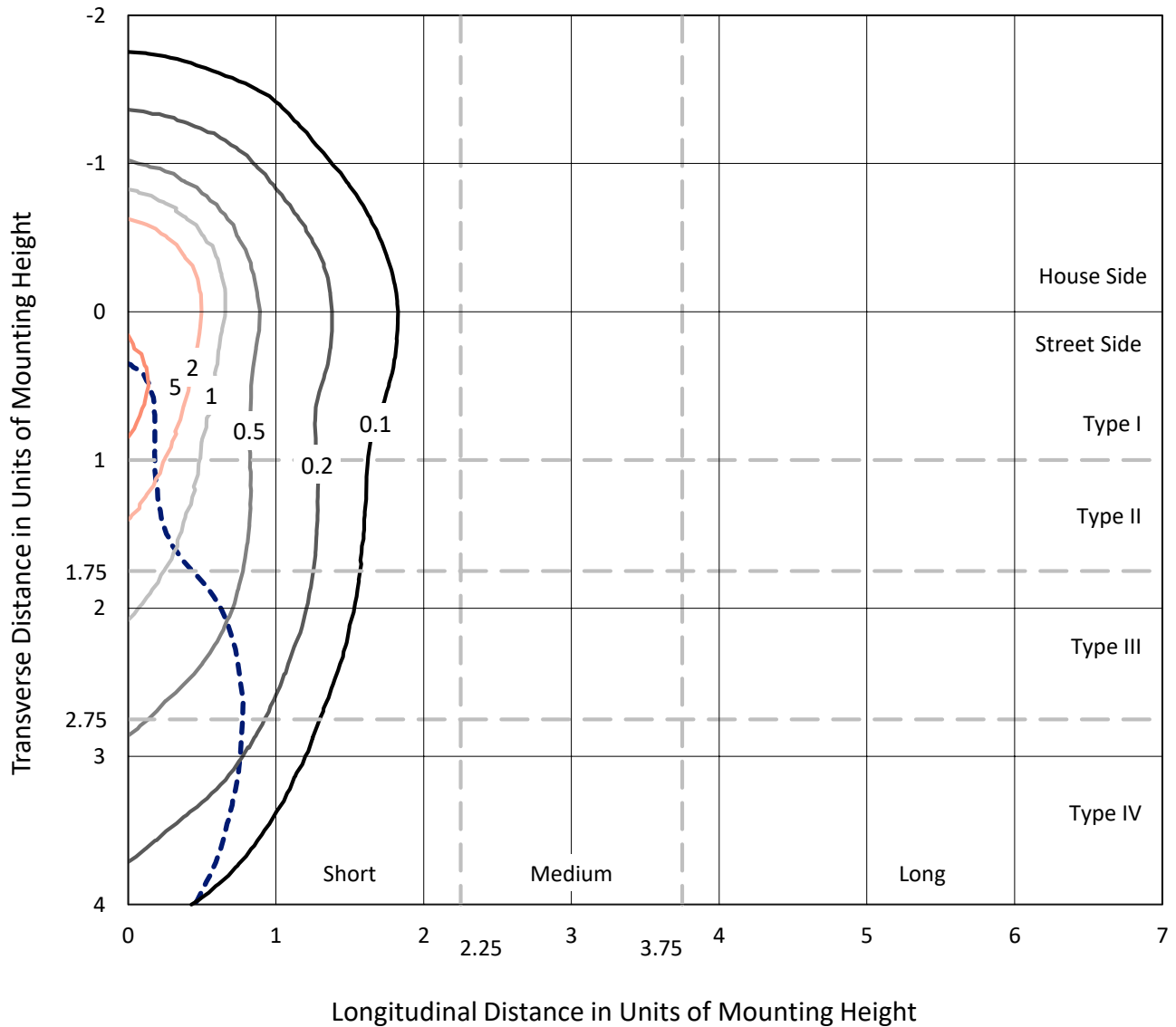
Lumens per Lamp: N/A
Luminaire Lumens: 14978.6 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 204.4
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

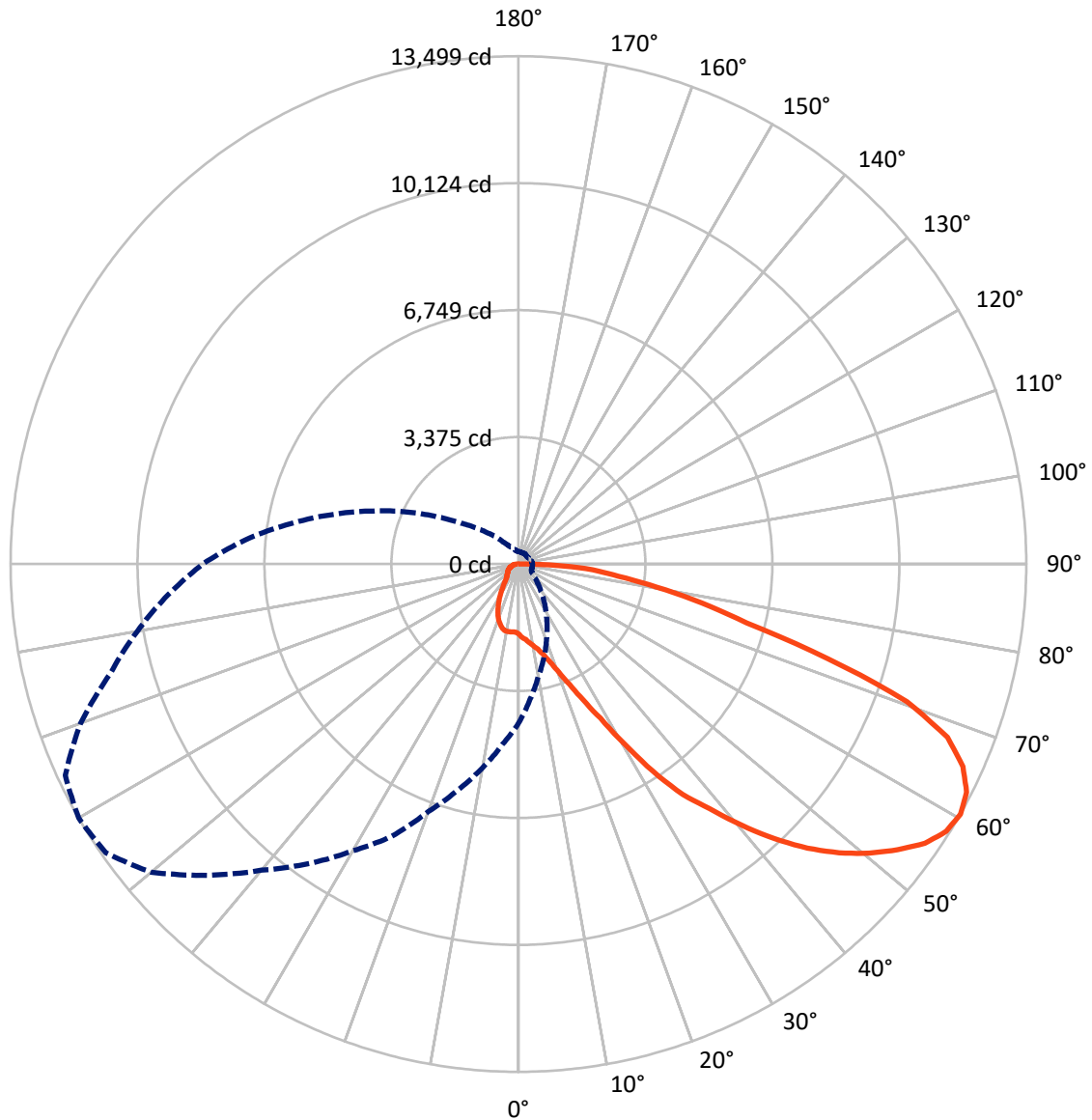
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3372.7	0.0	3372.7
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	11605.9	0.0	11605.9
	% Fixture	77.5	0.0	77.5
Total	Lumens	14978.6	0.0	14978.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	1.2
10°-20°	593.4	4.0
20°-30°	1126.0	7.5
30°-40°	1773.2	11.8
40°-50°	2475.0	16.5
50°-60°	3061.0	20.4
60°-70°	3172.9	21.2
70°-80°	1996.5	13.3
80°-90°	596.8	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°	14978.6	100.0
0°-180°	14978.6	100.0



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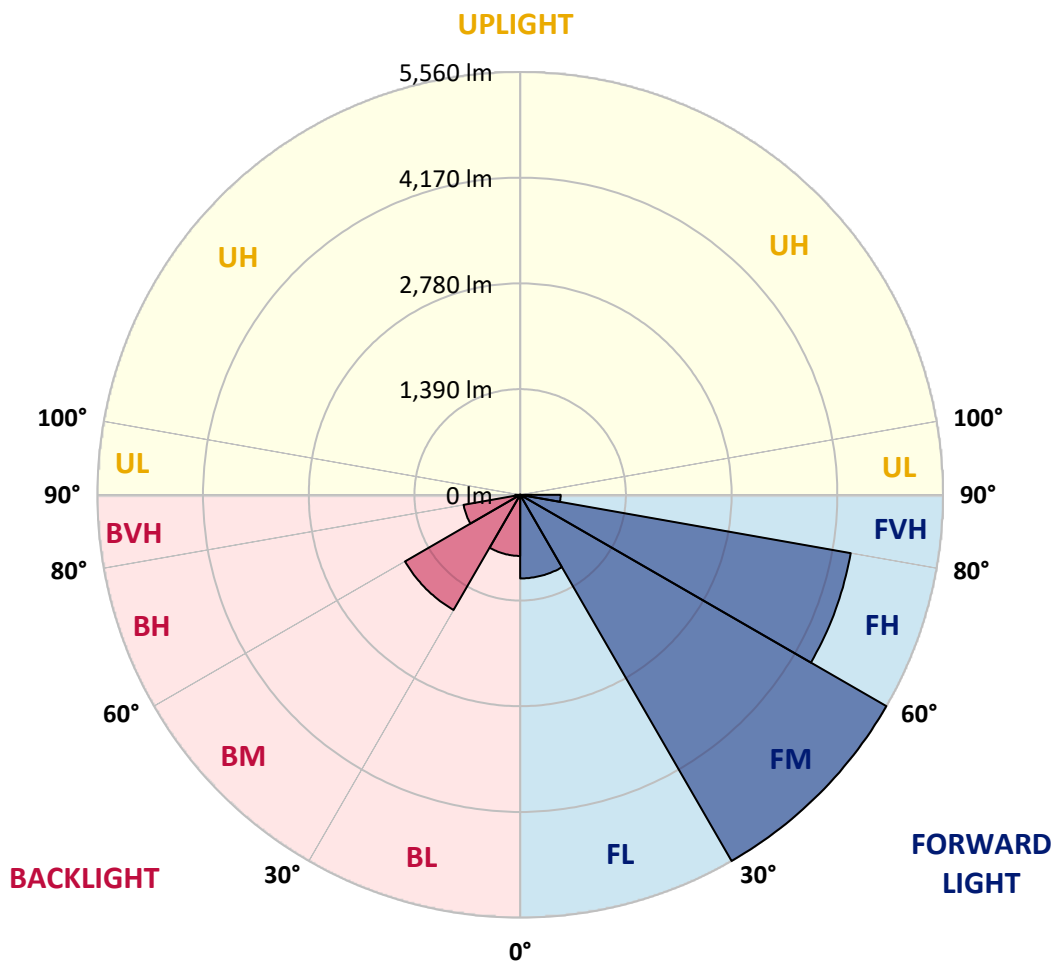
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1099.7	7.3			
FM	(30°-60°)	5560.3	37.1			
FH	(60°-80°)	4414.1	29.5			G2/5000
FVH	(80°-90°)	531.9	3.6			G4/750
BL	(0°-30°)	803.5	5.4	B2/1000		
BM	(30°-60°)	1749.0	11.7	B2/2500		
BH	(60°-80°)	755.3	5.0	B2/1000		G2/1000
BVH	(80°-90°)	64.9	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°	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8
2.5°	1973.2	1855.0	1857.2	1853.9	1853.9	1851.6	1853.9	1851.6	1849.4	1849.4	1850.5
5°	1998.8	1868.4	1868.4	1865.0	1862.8	1860.6	1862.8	1860.6	1859.4	1857.2	1858.3
7.5°	2023.3	1876.2	1871.7	1867.3	1861.7	1863.9	1863.9	1862.8	1863.9	1862.8	1865.0
10°	2063.5	1901.8	1890.7	1880.6	1879.5	1877.3	1877.3	1873.9	1873.9	1871.7	1872.8
12.5°	2166.0	1981.0	1968.7	1950.9	1947.5	1937.5	1931.9	1925.2	1914.1	1904.0	1896.2
15°	2338.8	2112.5	2089.1	2073.5	2066.8	2046.7	2015.5	1991.0	1958.7	1930.8	1901.8
17.5°	2550.6	2288.6	2260.8	2240.7	2207.3	2152.6	2100.2	2040.0	1977.6	1920.8	1868.4
20°	2847.1	2541.7	2487.1	2439.1	2355.5	2261.9	2163.8	2059.0	1963.1	1873.9	1797.0
22.5°	3248.5	2868.3	2766.9	2638.7	2483.7	2325.4	2169.4	2024.4	1896.2	1780.3	1677.7
25°	3710.0	3180.5	2997.6	2776.9	2539.5	2321.0	2115.8	1929.7	1780.3	1630.9	1519.4
27.5°	4050.0	3441.3	3171.5	2881.7	2578.5	2299.8	2047.8	1822.7	1642.1	1489.3	1354.5
30°	4244.0	3590.7	3266.3	2926.3	2585.2	2264.1	1962.0	1701.1	1492.7	1311.0	1181.7
32.5°	4368.8	3671.0	3276.3	2881.7	2504.9	2158.2	1831.6	1560.7	1334.4	1140.4	1003.3
35°	4473.6	3703.3	3229.5	2782.5	2353.3	1997.7	1664.4	1393.5	1153.8	975.4	835.0
37.5°	4516.0	3697.7	3154.8	2649.8	2205.0	1822.7	1493.8	1216.2	1002.2	845.0	724.6
40°	4508.2	3646.4	3053.4	2508.2	2031.1	1639.8	1313.2	1069.1	895.2	762.5	674.4
42.5°	4455.8	3578.4	2940.8	2364.4	1871.7	1488.2	1190.6	974.3	833.9	733.5	656.6
45°	4390.0	3497.1	2838.2	2232.9	1745.7	1380.1	1119.2	947.6	826.0	730.2	647.7
47.5°	4300.8	3406.8	2734.5	2139.3	1678.9	1347.8	1118.1	963.2	832.7	722.4	632.1
50°	4203.8	3341.0	2677.7	2099.1	1671.1	1367.8	1157.1	987.7	837.2	714.6	610.9
52.5°	4135.8	3312.0	2676.6	2113.6	1712.3	1423.6	1202.8	1018.9	853.9	719.0	606.4
55°	4052.2	3307.5	2705.6	2176.0	1802.6	1518.3	1275.3	1072.4	888.5	735.8	609.8
57.5°	4057.8	3395.6	2818.2	2329.9	1965.4	1646.5	1367.8	1138.2	921.9	745.8	604.2
60°	4233.9	3600.7	3040.0	2593.0	2178.3	1797.0	1462.6	1173.9	919.7	723.5	577.5
62.5°	4597.3	3908.4	3372.2	2901.8	2394.5	1913.0	1497.1	1163.8	886.2	675.6	534.0
65°	5031.0	4268.5	3695.5	3141.4	2526.1	1939.7	1467.0	1108.1	819.4	613.1	481.6
67.5°	5464.6	4523.8	3881.7	3209.4	2472.6	1831.6	1355.6	983.2	705.7	528.4	422.5
70°	5620.7	4576.2	3867.2	3056.7	2229.6	1562.9	1115.9	791.5	566.3	432.5	355.6
72.5°	5386.6	4248.4	3438.0	2597.4	1812.6	1211.8	818.2	584.1	432.5	338.9	289.8
75°	4518.2	3421.3	2717.8	1956.4	1308.7	857.3	590.8	425.8	325.5	268.7	231.9
77.5°	3220.6	2382.3	1851.6	1285.3	849.5	594.2	423.6	319.9	258.6	215.2	188.4
80°	2023.3	1462.6	1128.2	771.4	529.5	403.5	304.3	253.1	208.5	175.0	157.2
82.5°	1218.5	851.7	664.4	479.4	347.8	276.5	224.1	198.4	166.1	144.9	134.9
85°	827.2	626.5	435.9	283.2	209.6	162.8	152.7	137.1	123.7	103.7	100.3
87.5°	158.3	224.1	195.1	115.9	76.9	65.8	58.0	55.7	50.2	40.1	45.7
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°	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8
2.5°	1843.8	1841.6	1837.2	1837.2	1833.8	1827.1	1826.0	1821.5	1816.0	1817.1	1816.0
5°	1850.5	1846.1	1840.5	1838.3	1833.8	1827.1	1823.8	1818.2	1812.6	1812.6	1812.6
7.5°	1858.3	1852.8	1848.3	1840.5	1831.6	1824.9	1816.0	1809.3	1805.9	1804.8	1805.9
10°	1865.0	1861.7	1855.0	1843.8	1831.6	1818.2	1809.3	1800.4	1791.4	1792.6	1793.7
12.5°	1879.5	1868.4	1850.5	1833.8	1814.9	1798.1	1782.5	1771.4	1760.2	1760.2	1761.3
15°	1869.5	1837.2	1812.6	1780.3	1759.1	1732.4	1714.5	1704.5	1697.8	1695.6	1696.7
17.5°	1810.4	1771.4	1734.6	1705.6	1676.6	1655.4	1647.6	1641.0	1632.0	1636.5	1632.0
20°	1721.2	1673.3	1620.9	1586.3	1551.8	1537.3	1523.9	1517.2	1511.6	1531.7	1531.7
22.5°	1593.0	1535.0	1481.5	1439.2	1400.2	1384.6	1371.2	1363.4	1366.7	1391.2	1393.5
25°	1431.4	1361.1	1290.9	1265.3	1226.3	1214.0	1206.2	1205.1	1208.4	1232.9	1238.5
27.5°	1259.7	1186.1	1125.9	1066.8	1049.0	1039.0	1024.5	1041.2	1044.5	1071.3	1082.4
30°	1076.9	997.7	934.2	895.2	857.3	862.8	850.6	870.6	879.6	907.4	916.3
32.5°	889.6	814.9	751.4	712.3	685.6	688.9	680.0	697.9	706.8	740.2	756.9
35°	735.8	672.2	620.9	587.5	575.2	563.0	560.7	563.0	571.9	597.5	627.6
37.5°	647.7	595.3	558.5	534.0	517.3	509.5	505.0	505.0	505.0	510.6	525.1
40°	609.8	563.0	530.6	507.2	496.1	491.6	488.3	484.9	479.4	477.1	478.2
42.5°	593.1	539.6	505.0	487.2	480.5	480.5	480.5	478.2	472.7	467.1	461.5
45°	576.3	518.4	483.8	471.6	468.2	469.3	469.3	469.3	464.9	458.2	448.1
47.5°	555.2	495.0	460.4	452.6	452.6	455.9	457.1	457.1	452.6	445.9	438.1
50°	529.5	464.9	433.6	427.0	423.6	423.6	423.6	423.6	420.3	415.8	410.2
52.5°	516.1	448.1	415.8	409.1	409.1	405.8	404.7	401.3	398.0	394.6	386.8
55°	511.7	441.5	408.0	402.4	402.4	399.1	395.7	392.4	386.8	381.3	373.5
57.5°	499.4	427.0	398.0	393.5	393.5	391.3	387.9	384.6	379.0	371.2	361.2
60°	471.6	402.4	377.9	376.8	376.8	375.7	373.5	373.5	367.9	360.1	347.8
62.5°	435.9	376.8	353.4	353.4	352.3	351.2	346.7	345.6	338.9	328.9	317.7
65°	401.3	354.5	338.9	334.4	332.2	328.9	326.6	321.1	315.5	306.6	295.4
67.5°	357.8	321.1	311.0	306.6	302.1	298.8	295.4	292.1	285.4	278.7	269.8
70°	311.0	284.3	278.7	277.6	272.0	268.7	267.5	264.2	257.5	250.8	239.7
72.5°	266.4	250.8	246.4	246.4	239.7	235.2	233.0	231.9	227.4	221.8	211.8
75°	215.2	204.0	202.9	208.5	208.5	205.1	202.9	205.1	198.4	195.1	185.1
77.5°	176.1	170.6	167.2	169.4	176.1	172.8	168.3	168.3	168.3	162.8	159.4
80°	149.4	144.9	141.6	143.8	142.7	141.6	139.3	134.9	134.9	134.9	133.8
82.5°	134.9	133.8	121.5	121.5	117.1	113.7	111.5	109.2	107.0	107.0	112.6
85°	101.4	104.8	98.1	97.0	91.4	87.0	82.5	80.3	78.0	81.4	92.5
87.5°	49.1	49.1	46.8	52.4	47.9	45.7	42.4	40.1	42.4	52.4	62.4
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°	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8
2.5°	1813.7	1812.6	1811.5	1809.3	1804.8	1803.7	1801.5	1801.5	1800.4	1798.1	1800.4
5°	1810.4	1812.6	1812.6	1811.5	1808.2	1810.4	1810.4	1813.7	1813.7	1816.0	1821.5
7.5°	1805.9	1811.5	1816.0	1819.3	1823.8	1827.1	1833.8	1843.8	1848.3	1856.1	1859.4
10°	1797.0	1807.1	1814.9	1824.9	1836.0	1848.3	1858.3	1873.9	1879.5	1890.7	1896.2
12.5°	1771.4	1788.1	1801.5	1821.5	1840.5	1859.4	1877.3	1897.4	1907.4	1919.6	1927.4
15°	1709.0	1727.9	1746.9	1764.7	1798.1	1834.9	1863.9	1890.7	1905.2	1920.8	1928.6
17.5°	1634.3	1646.5	1662.1	1685.5	1717.9	1750.2	1797.0	1834.9	1857.2	1875.1	1877.3
20°	1547.3	1565.1	1576.3	1585.2	1610.9	1633.1	1683.3	1726.8	1755.8	1777.0	1782.5
22.5°	1414.7	1433.6	1452.6	1459.2	1479.3	1508.3	1536.2	1583.0	1624.2	1655.4	1674.4
25°	1263.0	1280.9	1306.5	1326.6	1331.0	1354.5	1382.3	1435.8	1478.2	1528.4	1550.7
27.5°	1111.4	1127.0	1154.9	1166.1	1179.4	1202.8	1225.1	1269.7	1314.3	1372.3	1396.8
30°	934.2	967.6	1000.0	1021.1	1032.3	1060.2	1075.8	1119.2	1160.5	1202.8	1238.5
32.5°	782.6	812.7	849.5	876.2	889.6	910.8	935.3	972.1	1004.4	1045.7	1086.9
35°	643.2	684.5	709.0	732.4	767.0	777.0	801.5	835.0	853.9	898.5	945.3
37.5°	545.1	569.7	594.2	617.6	646.6	659.9	683.4	711.2	733.5	760.3	802.6
40°	484.9	498.3	516.1	531.7	552.9	569.7	581.9	605.3	622.0	648.8	678.9
42.5°	457.1	460.4	462.6	473.8	484.9	496.1	509.5	519.5	539.6	559.6	578.6
45°	441.5	434.8	431.4	432.5	437.0	443.7	454.8	466.0	479.4	491.6	502.8
47.5°	428.1	419.2	409.1	403.5	404.7	406.9	415.8	424.7	431.4	441.5	445.9
50°	396.9	389.1	380.1	372.3	373.5	374.6	382.4	389.1	393.5	396.9	402.4
52.5°	376.8	365.6	357.8	350.0	348.9	352.3	359.0	365.6	367.9	370.1	371.2
55°	362.3	351.2	341.1	333.3	330.0	337.8	340.0	348.9	352.3	352.3	353.4
57.5°	351.2	337.8	327.7	319.9	314.4	319.9	325.5	335.5	336.7	334.4	334.4
60°	334.4	324.4	314.4	306.6	301.0	305.4	309.9	321.1	321.1	315.5	314.4
62.5°	305.4	299.9	293.2	289.8	288.7	293.2	296.5	305.4	302.1	295.4	293.2
65°	284.3	279.8	273.1	270.9	269.8	276.5	277.6	283.2	278.7	275.3	274.2
67.5°	258.6	255.3	251.9	250.8	247.5	247.5	249.7	253.1	250.8	250.8	251.9
70°	229.6	225.2	221.8	223.0	220.7	220.7	221.8	224.1	223.0	225.2	227.4
72.5°	202.9	197.3	196.2	196.2	194.0	195.1	195.1	196.2	198.4	199.5	205.1
75°	177.2	171.7	171.7	170.6	170.6	170.6	171.7	173.9	176.1	177.2	179.5
77.5°	153.8	150.5	151.6	150.5	150.5	150.5	150.5	153.8	155.0	156.1	159.4
80°	132.7	132.7	133.8	133.8	132.7	131.5	132.7	134.9	136.0	137.1	138.2
82.5°	120.4	121.5	121.5	121.5	115.9	113.7	117.1	119.3	121.5	122.6	124.9
85°	103.7	99.2	103.7	102.6	94.8	93.6	93.6	94.8	97.0	94.8	94.8
87.5°	66.9	60.2	63.5	63.5	55.7	45.7	58.0	62.4	55.7	59.1	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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8
2.5°	1803.7	1801.5	1802.6	1802.6	1804.8	1801.5	1805.9	1810.4	1811.5	1811.5	1812.6
5°	1827.1	1824.9	1832.7	1829.3	1837.2	1836.0	1841.6	1846.1	1848.3	1848.3	1848.3
7.5°	1863.9	1871.7	1876.2	1888.4	1889.5	1896.2	1901.8	1907.4	1905.2	1906.3	1905.2
10°	1905.2	1915.2	1926.3	1938.6	1939.7	1947.5	1956.4	1962.0	1959.8	1958.7	1955.3
12.5°	1940.8	1947.5	1960.9	1973.2	1979.8	1992.1	2001.0	2005.5	2005.5	2002.1	1998.8
15°	1938.6	1948.6	1963.1	1981.0	1993.2	2011.1	2026.7	2036.7	2037.8	2034.5	2033.4
17.5°	1889.5	1904.0	1917.4	1941.9	1964.2	1988.8	2014.4	2028.9	2042.3	2050.1	2054.5
20°	1801.5	1819.3	1838.3	1870.6	1900.7	1933.0	1963.1	1984.3	2004.4	2027.8	2055.6
22.5°	1697.8	1724.6	1751.3	1792.6	1829.3	1866.1	1900.7	1926.3	1957.5	1997.7	2050.1
25°	1576.3	1604.2	1637.6	1685.5	1732.4	1785.9	1837.2	1888.4	1948.6	2017.7	2099.1
27.5°	1432.5	1463.7	1507.2	1565.1	1618.7	1673.3	1753.5	1834.9	1933.0	2022.2	2114.7
30°	1289.8	1329.9	1376.7	1434.7	1488.2	1566.3	1646.5	1746.9	1850.5	1950.9	2061.2
32.5°	1136.0	1186.1	1244.1	1292.0	1352.2	1431.4	1511.6	1618.7	1729.0	1847.2	1968.7
35°	987.7	1035.6	1081.3	1134.8	1195.0	1269.7	1347.8	1450.3	1589.7	1715.6	1860.6
37.5°	837.2	881.8	914.1	956.5	1008.9	1091.4	1175.0	1293.1	1424.7	1579.6	1724.6
40°	705.7	742.4	779.2	812.7	857.3	935.3	1024.5	1140.4	1269.7	1420.2	1581.9
42.5°	600.9	628.7	668.9	709.0	746.9	813.8	897.4	1011.1	1139.3	1293.1	1454.8
45°	512.8	531.7	564.1	597.5	644.3	700.1	780.3	896.3	1026.7	1181.7	1352.2
47.5°	449.3	458.2	480.5	515.0	558.5	613.1	682.2	787.0	914.1	1070.2	1249.7
50°	405.8	415.8	427.0	455.9	495.0	550.7	607.6	699.0	814.9	967.6	1146.0
52.5°	375.7	380.1	384.6	402.4	438.1	484.9	545.1	614.2	731.3	877.3	1037.9
55°	357.8	359.0	362.3	371.2	398.0	441.5	493.8	559.6	651.0	789.3	953.1
57.5°	336.7	338.9	342.2	347.8	364.5	403.5	448.1	501.6	577.5	693.4	850.6
60°	316.6	322.2	327.7	331.1	340.0	363.4	401.3	443.7	505.0	591.9	716.8
62.5°	295.4	302.1	306.6	309.9	313.3	327.7	355.6	383.5	421.4	478.2	571.9
65°	276.5	280.9	284.3	286.5	288.7	293.2	305.4	316.6	327.7	362.3	430.3
67.5°	255.3	257.5	258.6	259.7	258.6	258.6	259.7	264.2	268.7	282.0	314.4
70°	230.8	234.1	234.1	235.2	235.2	231.9	231.9	231.9	231.9	235.2	253.1
72.5°	207.3	211.8	211.8	212.9	211.8	210.7	210.7	210.7	214.0	216.3	223.0
75°	185.1	189.5	188.4	189.5	190.6	190.6	192.9	194.0	197.3	198.4	202.9
77.5°	162.8	166.1	167.2	166.1	168.3	170.6	175.0	177.2	178.4	179.5	180.6
80°	141.6	143.8	142.7	139.3	144.9	148.3	155.0	162.8	160.5	161.6	163.9
82.5°	117.1	113.7	111.5	113.7	117.1	121.5	128.2	138.2	139.3	144.9	143.8
85°	90.3	80.3	79.1	84.7	83.6	89.2	100.3	108.1	114.8	120.4	114.8
87.5°	53.5	47.9	40.1	37.9	41.2	54.6	56.9	69.1	74.7	76.9	69.1
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8
2.5°	1914.1	1919.6	1919.6	1921.9	1925.2	1926.3	1930.8	1938.6	1939.7	1939.7	1943.1
5°	1949.7	1955.3	1955.3	1959.8	1960.9	1966.5	1972.0	1981.0	1985.4	1984.3	1998.8
7.5°	2007.7	2003.3	1999.9	2006.6	2009.9	2016.6	2027.8	2035.6	2043.4	2055.6	2075.7
10°	2056.8	2050.1	2046.7	2051.2	2053.4	2061.2	2067.9	2079.1	2098.0	2117.0	2141.5
12.5°	2096.9	2089.1	2080.2	2082.4	2085.7	2095.8	2106.9	2121.4	2149.3	2173.8	2210.6
15°	2130.3	2119.2	2110.3	2114.7	2122.5	2135.9	2154.9	2180.5	2226.2	2268.6	2317.6
17.5°	2162.7	2160.4	2157.1	2171.6	2177.2	2208.4	2236.2	2283.1	2345.5	2409.0	2479.3
20°	2193.9	2218.4	2230.7	2259.7	2277.5	2319.9	2362.2	2419.1	2498.2	2585.2	2681.0
22.5°	2237.4	2304.2	2345.5	2404.6	2434.7	2480.4	2542.8	2617.5	2705.6	2817.0	2939.7
25°	2341.0	2439.1	2521.6	2614.2	2690.0	2760.2	2834.9	2925.2	3052.3	3153.7	3314.2
27.5°	2386.7	2525.0	2648.7	2779.1	2892.8	3001.0	3119.1	3228.4	3378.9	3516.0	3710.0
30°	2343.3	2499.3	2659.9	2830.4	2996.5	3160.4	3332.1	3499.3	3673.2	3864.9	4071.2
32.5°	2263.0	2438.0	2618.6	2819.3	3025.5	3238.4	3461.4	3704.4	3949.7	4188.2	4398.9
35°	2181.6	2370.0	2570.7	2800.3	3043.3	3307.5	3584.0	3891.7	4216.1	4518.2	4793.5
37.5°	2063.5	2270.8	2500.4	2765.8	3054.5	3380.0	3735.6	4114.6	4524.9	4940.7	5301.9
40°	1920.8	2140.4	2391.2	2696.6	3043.3	3454.7	3917.3	4403.4	4930.7	5437.9	5881.6
42.5°	1790.3	2004.4	2271.9	2604.1	3014.4	3520.5	4090.1	4695.4	5319.7	5887.1	6466.8
45°	1675.5	1911.8	2180.5	2539.5	2999.9	3576.2	4218.3	4913.9	5628.5	6304.1	6988.5
47.5°	1570.7	1816.0	2117.0	2503.8	2993.2	3609.6	4307.5	5056.6	5848.1	6624.0	7418.8
50°	1462.6	1701.1	2023.3	2464.8	2976.5	3608.5	4354.3	5153.6	6002.0	6872.6	7715.4
52.5°	1346.7	1586.3	1909.6	2393.4	2940.8	3588.5	4366.6	5219.4	6123.5	7025.3	7967.3
55°	1240.7	1464.8	1788.1	2274.1	2866.1	3539.4	4338.7	5247.3	6209.3	7176.9	8144.6
57.5°	1119.2	1352.2	1659.9	2110.3	2725.6	3452.5	4259.6	5208.2	6233.8	7278.4	8285.0
60°	952.0	1180.5	1497.1	1916.3	2506.0	3268.5	4112.4	5090.1	6155.8	7296.2	8385.4
62.5°	760.3	957.6	1263.0	1648.8	2197.2	2979.8	3840.4	4824.8	5912.8	7129.0	8334.1
65°	565.2	696.7	959.8	1298.7	1839.4	2545.0	3402.3	4380.0	5437.9	6664.1	8011.9
67.5°	393.5	488.3	649.9	901.9	1337.7	1965.4	2776.9	3685.5	4703.2	5803.5	7343.0
70°	297.6	341.1	429.2	569.7	866.2	1338.8	2018.9	2828.2	3772.4	4832.6	6282.9
72.5°	254.2	276.5	325.5	390.2	530.6	813.8	1267.5	1946.4	2783.6	3646.4	4820.3
75°	228.5	247.5	278.7	319.9	375.7	493.8	743.6	1231.8	1843.8	2442.5	3363.3
77.5°	207.3	224.1	251.9	273.1	303.2	355.6	473.8	736.9	1104.7	1509.4	2086.9
80°	185.1	195.1	220.7	241.9	265.3	295.4	340.0	462.6	634.3	894.1	1230.7
82.5°	158.3	166.1	185.1	214.0	231.9	244.1	257.5	306.6	380.1	484.9	683.4
85°	122.6	128.2	144.9	166.1	173.9	175.0	177.2	190.6	236.3	363.4	588.6
87.5°	62.4	69.1	87.0	93.6	79.1	85.8	87.0	92.5	122.6	199.5	202.9
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	0°
2.5°	1943.1	1946.4	1954.2	1953.1	1958.7	1958.7	1958.7	1964.2	1960.9	1964.2	1969.8	2.5°
5°	1998.8	2004.4	2015.5	2015.5	2016.6	2016.6	2020.0	2024.4	2018.9	2016.6	2017.7	5°
7.5°	2080.2	2089.1	2098.0	2106.9	2113.6	2113.6	2111.4	2101.4	2099.1	2091.3	2081.3	7.5°
10°	2159.3	2183.8	2200.6	2216.2	2217.3	2217.3	2215.1	2198.3	2195.0	2179.4	2169.4	10°
12.5°	2240.7	2271.9	2298.7	2315.4	2325.4	2327.7	2328.8	2328.8	2313.2	2299.8	2276.4	12.5°
15°	2361.1	2415.7	2457.0	2474.8	2489.3	2502.7	2506.0	2510.5	2498.2	2480.4	2477.0	15°
17.5°	2551.7	2603.0	2657.6	2705.6	2737.9	2740.1	2768.0	2765.8	2791.4	2771.3	2765.8	17.5°
20°	2778.0	2889.5	2946.4	3009.9	3046.7	3064.5	3129.2	3109.1	3128.1	3160.4	3128.1	20°
22.5°	3061.2	3202.8	3285.2	3372.2	3432.4	3475.9	3522.7	3559.5	3610.8	3635.3	3613.0	22.5°
25°	3436.9	3598.5	3696.6	3817.0	3912.9	3990.9	4072.3	4170.4	4169.3	4228.3	4269.6	25°
27.5°	3868.3	4074.5	4217.2	4429.0	4511.5	4643.0	4782.4	4934.0	4960.8	5037.7	5076.7	27.5°
30°	4274.1	4529.3	4812.5	5064.4	5349.8	5544.9	5706.5	5813.6	5975.2	5935.1	5912.8	30°
32.5°	4648.6	4988.6	5392.2	5805.8	6258.4	6567.2	6852.5	6985.2	7085.5	6872.6	6590.6	32.5°
35°	5134.7	5541.6	6003.1	6513.6	7088.9	7527.0	7821.3	7862.5	7805.7	7532.5	7065.5	35°
37.5°	5736.6	6163.6	6688.7	7228.2	7839.1	8250.5	8586.0	8646.2	8495.7	8008.6	7518.1	37.5°
40°	6330.8	6831.4	7401.0	8039.8	8673.0	9125.6	9462.2	9480.1	9234.8	8665.2	8091.1	40°
42.5°	6980.7	7528.1	8162.4	8870.3	9524.7	9982.8	10225.8	10302.8	9956.1	9225.9	8675.2	42.5°
45°	7541.5	8195.8	8902.6	9655.1	10339.6	10774.3	11021.8	10997.3	10578.1	9856.9	9211.4	45°
47.5°	8087.7	8807.9	9552.5	10351.8	11031.8	11471.1	11725.2	11702.9	11171.2	10340.7	9630.6	47.5°
50°	8573.7	9355.2	10151.2	11005.1	11682.9	12085.3	12396.3	12298.2	11626.0	10729.7	9900.3	50°
52.5°	8911.5	9783.3	10614.9	11537.9	12235.8	12617.0	13012.8	12697.3	11894.7	10968.3	10045.3	52.5°
55°	9125.6	10077.6	10944.9	11966.0	12651.6	13107.5	13362.8	12914.7	11998.3	11034.1	10095.4	55°
57.5°	9270.5	10239.2	11138.9	12213.5	13026.2	13408.5	13471.0	12922.5	11931.5	10930.4	10045.3	57.5°
60°	9341.8	10287.2	11226.9	12387.4	13289.3	13498.8	13385.1	12741.9	11700.7	10626.1	9722.0	60°
62.5°	9334.0	10227.0	11181.2	12445.4	13341.6	13368.4	13109.8	12434.2	11276.0	9987.3	9184.6	62.5°
65°	9135.6	10007.4	10923.7	12230.2	13097.5	12982.7	12657.2	11856.8	10449.9	9153.4	8747.7	65°
67.5°	8563.7	9399.8	10250.4	11525.7	12409.7	12298.2	11805.5	10721.9	9490.1	8415.5	8197.0	67.5°
70°	7607.2	8316.2	9063.1	10183.5	11111.0	10960.5	10098.8	9439.9	8539.2	7562.6	7486.8	70°
72.5°	6359.8	6897.1	7438.9	8272.8	8911.5	8603.8	8062.1	8027.5	7299.6	6553.8	6569.4	72.5°
75°	4974.1	5377.7	5630.7	6121.2	6546.0	6270.6	6302.9	6494.7	6255.0	5667.5	5476.9	75°
77.5°	3604.1	3990.9	4071.2	4362.1	4660.9	4974.1	5388.8	5840.3	5916.1	5586.1	4895.0	77.5°
80°	2358.9	2784.7	2626.4	2730.1	3150.4	3722.2	4479.2	5222.7	5478.0	5181.5	4330.9	80°
82.5°	1391.2	1987.6	1735.7	1913.0	2179.4	2677.7	3200.5	3761.3	4188.2	3872.7	3617.5	82.5°
85°	1056.8	1567.4	1659.9	1875.1	1962.0	1983.2	2074.6	2257.4	2478.1	2560.6	2554.0	85°
87.5°	550.7	1218.5	1367.8	1265.3	1180.5	1023.4	798.2	859.5	785.9	1074.6	1017.8	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°
1862.8	1862.8	1862.8	1862.8	1862.8	1862.8	1862.8
1970.9	1967.6	1969.8	1970.9	1970.9	1970.9	1973.2
2016.6	2007.7	2004.4	2004.4	2003.3	1999.9	1998.8
2065.7	2050.1	2044.5	2037.8	2032.2	2028.9	2023.3
2153.7	2140.4	2112.5	2096.9	2082.4	2072.4	2063.5
2271.9	2253.0	2226.2	2206.1	2183.8	2177.2	2166.0
2454.7	2438.0	2414.6	2392.3	2378.9	2355.5	2338.8
2740.1	2706.7	2683.3	2654.3	2622.0	2574.0	2550.6
3115.8	3048.9	3002.1	2976.5	2911.8	2904.0	2847.1
3547.2	3527.2	3455.8	3424.6	3362.2	3337.6	3248.5
4192.7	4177.1	4031.0	4015.4	3919.6	3848.2	3710.0
5041.0	4912.8	4747.8	4633.0	4469.1	4285.2	4050.0
5782.3	5520.4	5268.4	5000.9	4774.6	4510.4	4244.0
6255.0	5903.9	5579.5	5305.2	5025.4	4711.0	4368.8
6669.7	6315.2	5961.8	5637.4	5298.5	4896.1	4473.6
7165.8	6813.5	6415.5	5959.6	5524.8	5032.1	4516.0
7674.1	7261.7	6764.5	6206.0	5659.7	5099.0	4508.2
8194.7	7667.4	7006.4	6369.8	5745.6	5109.0	4455.8
8617.2	7950.6	7185.9	6453.4	5763.4	5074.5	4390.0
8916.0	8132.3	7266.1	6482.4	5741.1	5019.8	4300.8
9086.5	8231.5	7286.2	6461.2	5695.4	4941.8	4203.8
9149.0	8261.6	7266.1	6417.8	5654.1	4858.2	4135.8
9142.3	8244.9	7192.5	6316.3	5543.8	4746.7	4052.2
9016.3	8089.9	7042.0	6194.8	5450.1	4695.4	4057.8
8802.3	7991.8	6997.5	6219.3	5499.2	4805.8	4233.9
8705.3	8188.0	7248.3	6464.6	5751.1	5121.3	4597.3
8650.7	8506.9	7607.2	6728.8	6049.9	5503.7	5031.0
8427.7	8598.3	7811.2	6879.3	6316.3	5887.1	5464.6
8067.6	8385.4	7656.3	6850.3	6463.5	6181.4	5620.7
7316.3	7651.8	6966.2	6423.3	6279.5	6185.9	5386.6
5927.3	6101.2	5711.0	5588.4	5641.9	5643.0	4518.2
4371.0	4266.3	4090.1	4099.0	4459.1	4403.4	3220.6
3568.4	2920.7	2671.0	2765.8	3210.6	2970.9	2023.3
3320.9	2605.2	2150.4	2172.7	2424.6	1914.1	1218.5
2685.5	2374.5	1904.0	1709.0	1658.8	1275.3	827.2
1123.7	1033.4	769.2	693.4	568.5	347.8	158.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)