

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: P159111

Luminaire Tested: **VST-E05-LED-E-U-SLR-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159111  
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-E05-LED-E-U-SLR-7050  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (105) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

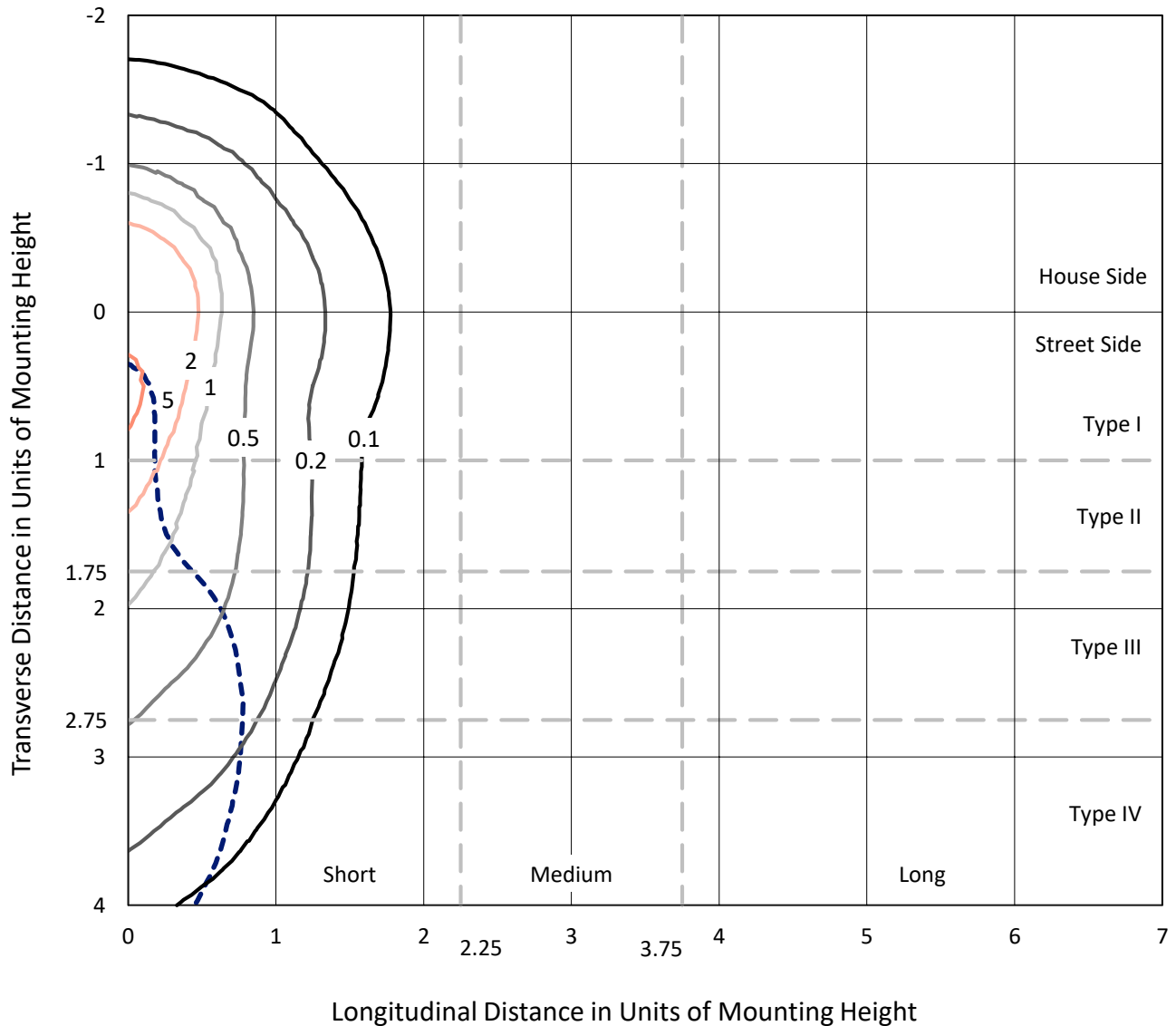
Lumens per Lamp: N/A  
Luminaire Lumens: 13787.2 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 127.3  
Input Voltage (V): NR  
Input Current (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

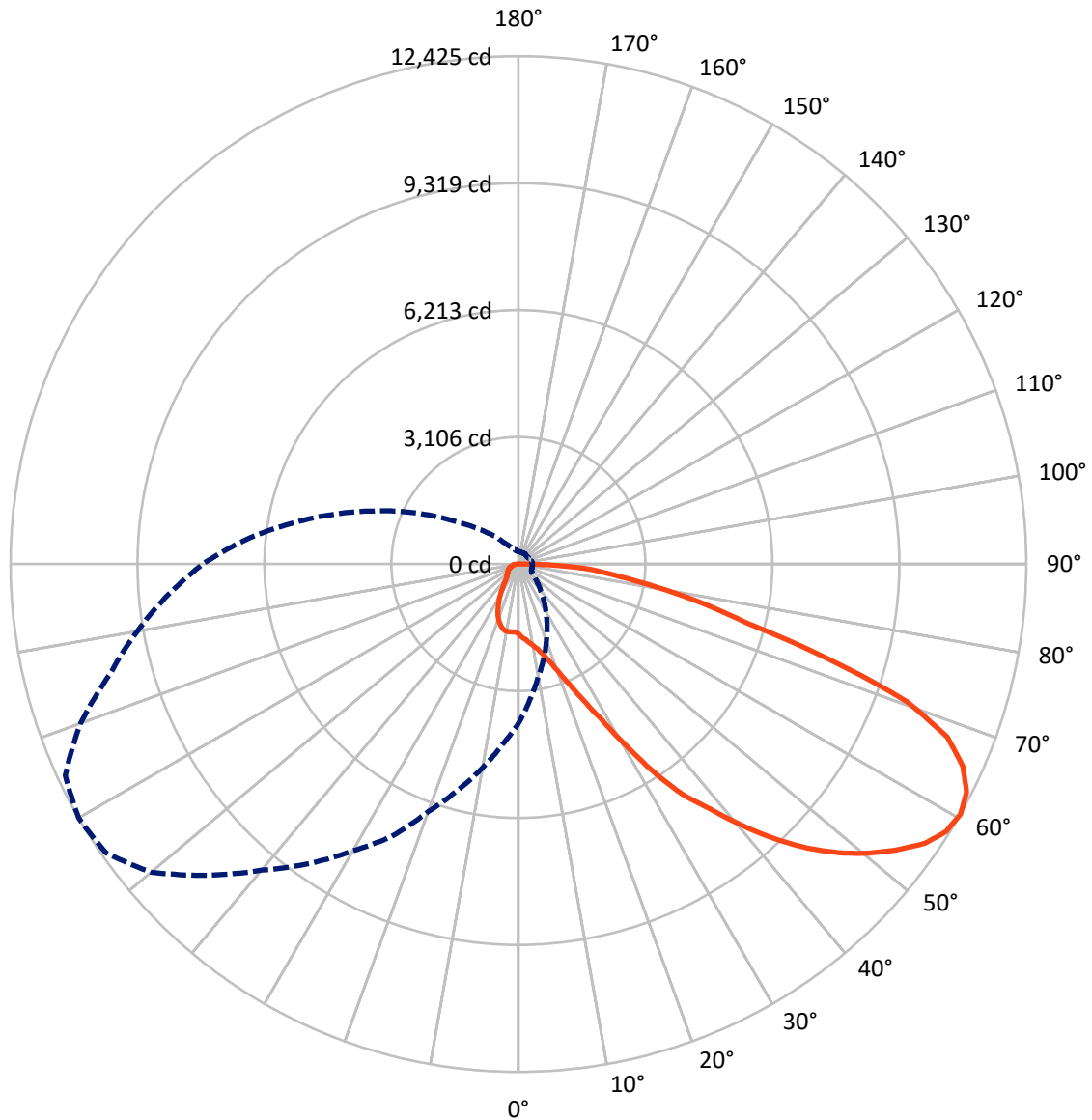
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 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
<b>House Side</b>	Lumens	3104.4	0.0	3104.4
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	10682.7	0.0	10682.7
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	13787.2	0.0	13787.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.2	1.2
10°-20°	546.2	4.0
20°-30°	1036.4	7.5
30°-40°	1632.2	11.8
40°-50°	2278.1	16.5
50°-60°	2817.5	20.4
60°-70°	2920.5	21.2
70°-80°	1837.7	13.3
80°-90°	549.3	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°	13787.2	100.0
0°-180°	13787.2	100.0



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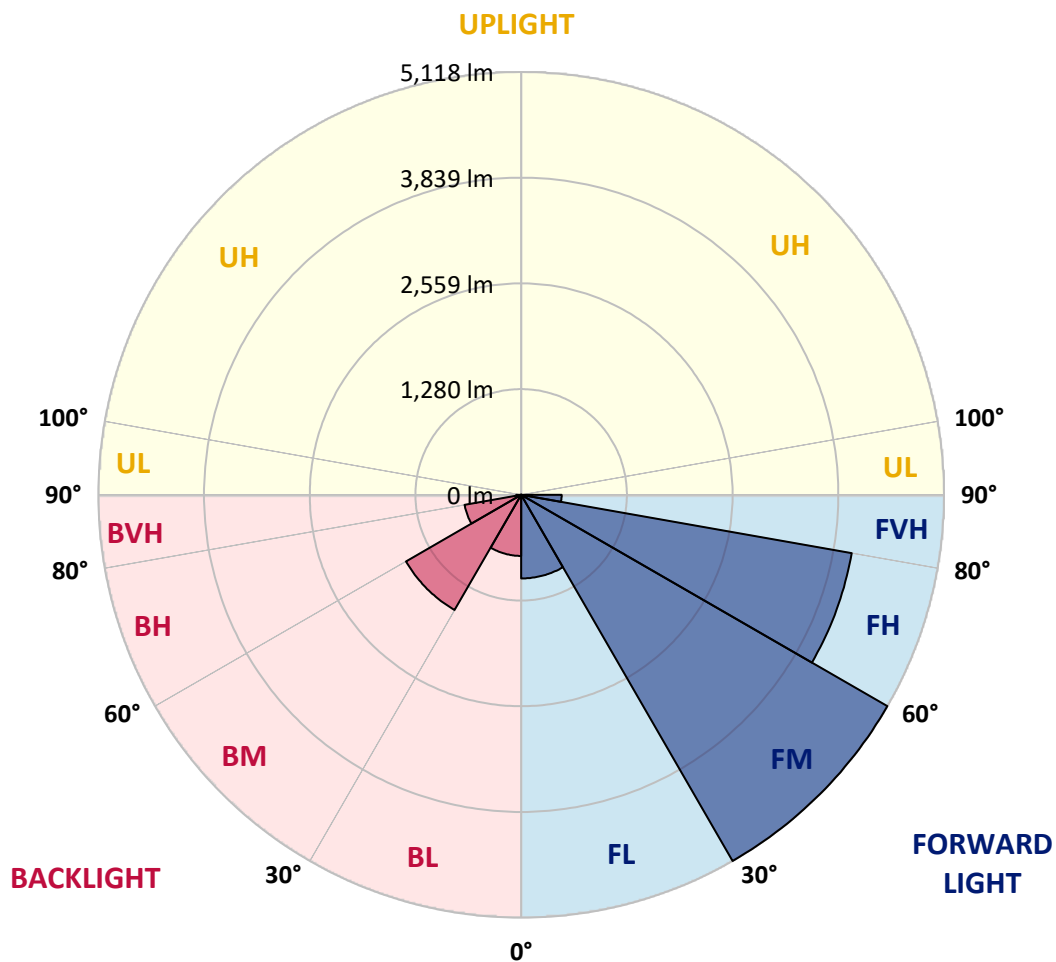
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1012.2	7.3			
FM	(30°-60°)	5118.0	37.1			
FH	(60°-80°)	4063.0	29.5			G2/5000
FVH	(80°-90°)	489.6	3.6			G3/500
BL	(0°-30°)	739.6	5.4	B2/1000		
BM	(30°-60°)	1609.8	11.7	B2/2500		
BH	(60°-80°)	695.3	5.0	B2/1000		G2/1000
BVH	(80°-90°)	59.8	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6
2.5°	1816.2	1707.4	1709.5	1706.4	1706.4	1704.4	1706.4	1704.4	1702.3	1702.3	1703.3
5°	1839.8	1719.8	1719.8	1716.7	1714.6	1712.6	1714.6	1712.6	1711.5	1709.5	1710.5
7.5°	1862.4	1726.9	1722.8	1718.7	1713.6	1715.6	1715.6	1714.6	1715.6	1714.6	1716.7
10°	1899.3	1750.5	1740.3	1731.0	1730.0	1728.0	1728.0	1724.9	1724.9	1722.8	1723.9
12.5°	1993.7	1823.4	1812.1	1795.7	1792.6	1783.4	1778.2	1772.1	1761.8	1752.6	1745.4
15°	2152.8	1944.5	1922.9	1908.6	1902.4	1883.9	1855.2	1832.6	1802.9	1777.2	1750.5
17.5°	2347.7	2106.6	2080.9	2062.5	2031.7	1981.4	1933.2	1877.8	1820.3	1768.0	1719.8
20°	2620.7	2339.5	2289.2	2245.1	2168.2	2082.0	1991.7	1895.2	1807.0	1724.9	1654.1
22.5°	2990.1	2640.2	2546.8	2428.8	2286.2	2140.5	1996.8	1863.4	1745.4	1638.7	1544.3
25°	3414.9	2927.5	2759.2	2556.0	2337.5	2136.4	1947.5	1776.2	1638.7	1501.2	1398.6
27.5°	3727.8	3167.6	2919.3	2652.5	2373.4	2116.9	1885.0	1677.7	1511.5	1370.9	1246.7
30°	3906.4	3305.1	3006.5	2693.5	2379.5	2084.0	1805.9	1565.8	1374.0	1206.7	1087.7
32.5°	4021.3	3379.0	3015.7	2652.5	2305.7	1986.5	1685.9	1436.5	1228.2	1049.7	923.5
35°	4117.8	3408.7	2972.6	2561.2	2166.1	1838.8	1532.0	1282.6	1062.0	897.8	768.6
37.5°	4156.8	3403.6	2903.9	2439.1	2029.6	1677.7	1375.0	1119.5	922.5	777.8	667.0
40°	4149.6	3356.4	2810.5	2308.7	1869.6	1509.4	1208.8	984.0	824.0	701.9	620.8
42.5°	4101.3	3293.8	2706.9	2176.4	1722.8	1369.9	1095.9	896.8	767.5	675.2	604.4
45°	4040.8	3218.9	2612.5	2055.3	1606.9	1270.3	1030.2	872.2	760.3	672.1	596.2
47.5°	3958.7	3135.8	2517.0	1969.1	1545.3	1240.6	1029.2	886.6	766.5	664.9	581.8
50°	3869.4	3075.2	2464.7	1932.2	1538.1	1259.0	1065.1	909.1	770.6	657.7	562.3
52.5°	3806.9	3048.6	2463.7	1945.5	1576.1	1310.3	1107.2	937.9	786.0	661.8	558.2
55°	3729.9	3044.5	2490.4	2003.0	1659.2	1397.6	1173.9	987.1	817.8	677.2	561.3
57.5°	3735.0	3125.5	2594.0	2144.6	1809.0	1515.6	1259.0	1047.7	848.6	686.5	556.1
60°	3897.1	3314.3	2798.2	2386.7	2005.0	1654.1	1346.3	1080.5	846.5	665.9	531.5
62.5°	4231.7	3597.5	3104.0	2671.0	2204.1	1760.8	1378.1	1071.3	815.8	621.8	491.5
65°	4630.8	3929.0	3401.5	2891.6	2325.2	1785.4	1350.4	1019.9	754.2	564.4	443.3
67.5°	5030.0	4163.9	3572.9	2954.2	2275.9	1685.9	1247.7	905.0	649.5	486.4	388.9
70°	5173.6	4212.2	3559.6	2813.6	2052.2	1438.6	1027.1	728.5	521.3	398.1	327.3
72.5°	4958.1	3910.5	3164.5	2390.8	1668.4	1115.4	753.2	537.7	398.1	311.9	266.8
75°	4158.8	3149.1	2501.6	1800.8	1204.6	789.1	543.8	392.0	299.6	247.3	213.4
77.5°	2964.4	2192.8	1704.4	1183.1	781.9	546.9	389.9	294.5	238.1	198.0	173.4
80°	1862.4	1346.3	1038.4	710.1	487.4	371.5	280.1	232.9	191.9	161.1	144.7
82.5°	1121.5	783.9	611.6	441.2	320.1	254.5	206.2	182.6	152.9	133.4	124.2
85°	761.4	576.7	401.2	260.6	192.9	149.8	140.6	126.2	113.9	95.4	92.3
87.5°	145.7	206.2	179.6	106.7	70.8	60.5	53.4	51.3	46.2	36.9	42.1
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6
2.5°	1697.2	1695.1	1691.0	1691.0	1687.9	1681.8	1680.8	1676.7	1671.5	1672.6	1671.5
5°	1703.3	1699.2	1694.1	1692.0	1687.9	1681.8	1678.7	1673.6	1668.4	1668.4	1668.4
7.5°	1710.5	1705.4	1701.3	1694.1	1685.9	1679.7	1671.5	1665.4	1662.3	1661.3	1662.3
10°	1716.7	1713.6	1707.4	1697.2	1685.9	1673.6	1665.4	1657.2	1649.0	1650.0	1651.0
12.5°	1730.0	1719.8	1703.3	1687.9	1670.5	1655.1	1640.7	1630.5	1620.2	1620.2	1621.2
15°	1720.8	1691.0	1668.4	1638.7	1619.2	1594.6	1578.2	1568.9	1562.8	1560.7	1561.7
17.5°	1666.4	1630.5	1596.6	1569.9	1543.3	1523.8	1516.6	1510.4	1502.2	1506.3	1502.2
20°	1584.3	1540.2	1492.0	1460.1	1428.3	1415.0	1402.7	1396.5	1391.4	1409.9	1409.9
22.5°	1466.3	1412.9	1363.7	1324.7	1288.8	1274.4	1262.1	1254.9	1258.0	1280.6	1282.6
25°	1317.5	1252.9	1188.2	1164.6	1128.7	1117.4	1110.2	1109.2	1112.3	1134.9	1140.0
27.5°	1159.5	1091.8	1036.4	982.0	965.6	956.3	943.0	958.4	961.5	986.1	996.3
30°	991.2	918.4	859.9	824.0	789.1	794.2	782.9	801.4	809.6	835.2	843.5
32.5°	818.8	750.1	691.6	655.7	631.1	634.1	625.9	642.3	650.6	681.3	696.7
35°	677.2	618.7	571.5	540.8	529.5	518.2	516.1	518.2	526.4	550.0	577.7
37.5°	596.2	547.9	514.1	491.5	476.1	468.9	464.8	464.8	464.8	470.0	483.3
40°	561.3	518.2	488.4	466.9	456.6	452.5	449.4	446.4	441.2	439.2	440.2
42.5°	545.9	496.6	464.8	448.4	442.3	442.3	442.3	440.2	435.1	429.9	424.8
45°	530.5	477.1	445.3	434.0	431.0	432.0	432.0	432.0	427.9	421.7	412.5
47.5°	511.0	455.6	423.8	416.6	416.6	419.7	420.7	420.7	416.6	410.4	403.3
50°	487.4	427.9	399.2	393.0	389.9	389.9	389.9	389.9	386.8	382.7	377.6
52.5°	475.1	412.5	382.7	376.6	376.6	373.5	372.5	369.4	366.3	363.2	356.1
55°	471.0	406.3	375.6	370.4	370.4	367.3	364.3	361.2	356.1	350.9	343.7
57.5°	459.7	393.0	366.3	362.2	362.2	360.2	357.1	354.0	348.9	341.7	332.5
60°	434.0	370.4	347.8	346.8	346.8	345.8	343.7	343.7	338.6	331.4	320.1
62.5°	401.2	346.8	325.3	325.3	324.2	323.2	319.1	318.1	311.9	302.7	292.4
65°	369.4	326.3	311.9	307.8	305.8	302.7	300.6	295.5	290.4	282.2	271.9
67.5°	329.4	295.5	286.3	282.2	278.1	275.0	271.9	268.8	262.7	256.5	248.3
70°	286.3	261.7	256.5	255.5	250.4	247.3	246.3	243.2	237.0	230.9	220.6
72.5°	245.2	230.9	226.8	226.8	220.6	216.5	214.5	213.4	209.3	204.2	195.0
75°	198.0	187.8	186.8	191.9	191.9	188.8	186.8	188.8	182.6	179.6	170.3
77.5°	162.1	157.0	153.9	156.0	162.1	159.0	154.9	154.9	154.9	149.8	146.7
80°	137.5	133.4	130.3	132.4	131.3	130.3	128.3	124.2	124.2	124.2	123.1
82.5°	124.2	123.1	111.8	111.8	107.7	104.7	102.6	100.6	98.5	98.5	103.6
85°	93.4	96.5	90.3	89.3	84.1	80.0	75.9	73.9	71.8	74.9	85.2
87.5°	45.1	45.1	43.1	48.2	44.1	42.1	39.0	36.9	39.0	48.2	57.5
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6
2.5°	1669.5	1668.4	1667.4	1665.4	1661.3	1660.2	1658.2	1658.2	1657.2	1655.1	1657.2
5°	1666.4	1668.4	1668.4	1667.4	1664.3	1666.4	1666.4	1669.5	1669.5	1671.5	1676.7
7.5°	1662.3	1667.4	1671.5	1674.6	1678.7	1681.8	1687.9	1697.2	1701.3	1708.5	1711.5
10°	1654.1	1663.3	1670.5	1679.7	1690.0	1701.3	1710.5	1724.9	1730.0	1740.3	1745.4
12.5°	1630.5	1645.9	1658.2	1676.7	1694.1	1711.5	1728.0	1746.4	1755.7	1767.0	1774.1
15°	1573.0	1590.5	1607.9	1624.3	1655.1	1689.0	1715.6	1740.3	1753.6	1768.0	1775.2
17.5°	1504.3	1515.6	1529.9	1551.5	1581.2	1611.0	1654.1	1689.0	1709.5	1725.9	1728.0
20°	1424.2	1440.7	1450.9	1459.1	1482.7	1503.2	1549.4	1589.4	1616.1	1635.6	1640.7
22.5°	1302.1	1319.6	1337.0	1343.2	1361.6	1388.3	1414.0	1457.1	1495.0	1523.8	1541.2
25°	1162.6	1179.0	1202.6	1221.1	1225.2	1246.7	1272.4	1321.6	1360.6	1406.8	1427.3
27.5°	1023.0	1037.4	1063.0	1073.3	1085.6	1107.2	1127.7	1168.7	1209.8	1263.1	1285.7
30°	859.9	890.7	920.4	939.9	950.2	975.8	990.2	1030.2	1068.2	1107.2	1140.0
32.5°	720.3	748.0	781.9	806.5	818.8	838.3	860.9	894.8	924.5	962.5	1000.5
35°	592.1	630.0	652.6	674.2	706.0	715.2	737.8	768.6	786.0	827.0	870.1
37.5°	501.8	524.3	546.9	568.5	595.1	607.5	629.0	654.7	675.2	699.8	738.8
40°	446.4	458.7	475.1	489.5	508.9	524.3	535.6	557.2	572.6	597.2	624.9
42.5°	420.7	423.8	425.8	436.1	446.4	456.6	468.9	478.2	496.6	515.1	532.5
45°	406.3	400.2	397.1	398.1	402.2	408.4	418.7	428.9	441.2	452.5	462.8
47.5°	394.0	385.8	376.6	371.5	372.5	374.5	382.7	390.9	397.1	406.3	410.4
50°	365.3	358.1	349.9	342.7	343.7	344.8	352.0	358.1	362.2	365.3	370.4
52.5°	346.8	336.6	329.4	322.2	321.2	324.2	330.4	336.6	338.6	340.7	341.7
55°	333.5	323.2	314.0	306.8	303.7	310.9	313.0	321.2	324.2	324.2	325.3
57.5°	323.2	310.9	301.7	294.5	289.4	294.5	299.6	308.9	309.9	307.8	307.8
60°	307.8	298.6	289.4	282.2	277.0	281.2	285.3	295.5	295.5	290.4	289.4
62.5°	281.2	276.0	269.9	266.8	265.8	269.9	272.9	281.2	278.1	271.9	269.9
65°	261.7	257.6	251.4	249.3	248.3	254.5	255.5	260.6	256.5	253.4	252.4
67.5°	238.1	235.0	231.9	230.9	227.8	227.8	229.8	232.9	230.9	230.9	231.9
70°	211.4	207.3	204.2	205.2	203.2	203.2	204.2	206.2	205.2	207.3	209.3
72.5°	186.8	181.6	180.6	180.6	178.5	179.6	179.6	180.6	182.6	183.7	188.8
75°	163.2	158.0	158.0	157.0	157.0	157.0	158.0	160.1	162.1	163.2	165.2
77.5°	141.6	138.5	139.6	138.5	138.5	138.5	138.5	141.6	142.6	143.7	146.7
80°	122.1	122.1	123.1	123.1	122.1	121.1	122.1	124.2	125.2	126.2	127.2
82.5°	110.8	111.8	111.8	111.8	106.7	104.7	107.7	109.8	111.8	112.9	114.9
85°	95.4	91.3	95.4	94.4	87.2	86.2	86.2	87.2	89.3	87.2	87.2
87.5°	61.6	55.4	58.5	58.5	51.3	42.1	53.4	57.5	51.3	54.4	54.4
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):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6
2.5°	1660.2	1658.2	1659.2	1659.2	1661.3	1658.2	1662.3	1666.4	1667.4	1667.4	1668.4
5°	1681.8	1679.7	1686.9	1683.8	1691.0	1690.0	1695.1	1699.2	1701.3	1701.3	1701.3
7.5°	1715.6	1722.8	1726.9	1738.2	1739.2	1745.4	1750.5	1755.7	1753.6	1754.6	1753.6
10°	1753.6	1762.8	1773.1	1784.4	1785.4	1792.6	1800.8	1805.9	1803.9	1802.9	1799.8
12.5°	1786.4	1792.6	1804.9	1816.2	1822.4	1833.7	1841.9	1846.0	1846.0	1842.9	1839.8
15°	1784.4	1793.6	1807.0	1823.4	1834.7	1851.1	1865.5	1874.7	1875.7	1872.6	1871.6
17.5°	1739.2	1752.6	1764.9	1787.5	1808.0	1830.6	1854.2	1867.5	1879.8	1887.0	1891.1
20°	1658.2	1674.6	1692.0	1721.8	1749.5	1779.3	1807.0	1826.5	1844.9	1866.5	1892.1
22.5°	1562.8	1587.4	1612.0	1650.0	1683.8	1717.7	1749.5	1773.1	1801.8	1838.8	1887.0
25°	1450.9	1476.6	1507.3	1551.5	1594.6	1643.8	1691.0	1738.2	1793.6	1857.3	1932.2
27.5°	1318.5	1347.3	1387.3	1440.7	1489.9	1540.2	1614.1	1689.0	1779.3	1861.4	1946.5
30°	1187.2	1224.1	1267.2	1320.6	1369.9	1441.7	1515.6	1607.9	1703.3	1795.7	1897.3
32.5°	1045.6	1091.8	1145.1	1189.3	1244.7	1317.5	1391.4	1489.9	1591.5	1700.3	1812.1
35°	909.1	953.3	995.3	1044.6	1100.0	1168.7	1240.6	1335.0	1463.2	1579.2	1712.6
37.5°	770.6	811.6	841.4	880.4	928.6	1004.6	1081.5	1190.3	1311.4	1454.0	1587.4
40°	649.5	683.4	717.2	748.0	789.1	860.9	943.0	1049.7	1168.7	1307.3	1456.0
42.5°	553.1	578.7	615.7	652.6	687.5	749.1	826.0	930.7	1048.7	1190.3	1339.1
45°	472.0	489.5	519.2	550.0	593.1	644.4	718.3	825.0	945.0	1087.7	1244.7
47.5°	413.5	421.7	442.3	474.1	514.1	564.4	628.0	724.4	841.4	985.1	1150.3
50°	373.5	382.7	393.0	419.7	455.6	506.9	559.2	643.4	750.1	890.7	1054.8
52.5°	345.8	349.9	354.0	370.4	403.3	446.4	501.8	565.4	673.1	807.5	955.3
55°	329.4	330.4	333.5	341.7	366.3	406.3	454.6	515.1	599.2	726.5	877.3
57.5°	309.9	311.9	315.0	320.1	335.5	371.5	412.5	461.7	531.5	638.2	782.9
60°	291.4	296.5	301.7	304.8	313.0	334.5	369.4	408.4	464.8	544.9	659.8
62.5°	271.9	278.1	282.2	285.3	288.3	301.7	327.3	353.0	387.9	440.2	526.4
65°	254.5	258.6	261.7	263.7	265.8	269.9	281.2	291.4	301.7	333.5	396.1
67.5°	235.0	237.0	238.1	239.1	238.1	238.1	239.1	243.2	247.3	259.6	289.4
70°	212.4	215.5	215.5	216.5	216.5	213.4	213.4	213.4	213.4	216.5	232.9
72.5°	190.9	195.0	195.0	196.0	195.0	193.9	193.9	193.9	197.0	199.1	205.2
75°	170.3	174.4	173.4	174.4	175.5	175.5	177.5	178.5	181.6	182.6	186.8
77.5°	149.8	152.9	153.9	152.9	154.9	157.0	161.1	163.2	164.2	165.2	166.2
80°	130.3	132.4	131.3	128.3	133.4	136.5	142.6	149.8	147.8	148.8	150.8
82.5°	107.7	104.7	102.6	104.7	107.7	111.8	118.0	127.2	128.3	133.4	132.4
85°	83.1	73.9	72.9	78.0	77.0	82.1	92.3	99.5	105.7	110.8	105.7
87.5°	49.3	44.1	36.9	34.9	38.0	50.3	52.3	63.6	68.7	70.8	63.6
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):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6
2.5°	1761.8	1767.0	1767.0	1769.0	1772.1	1773.1	1777.2	1784.4	1785.4	1785.4	1788.5
5°	1794.7	1799.8	1799.8	1803.9	1804.9	1810.0	1815.2	1823.4	1827.5	1826.5	1839.8
7.5°	1848.0	1843.9	1840.8	1847.0	1850.1	1856.2	1866.5	1873.7	1880.9	1892.1	1910.6
10°	1893.2	1887.0	1883.9	1888.0	1890.1	1897.3	1903.4	1913.7	1931.1	1948.6	1971.1
12.5°	1930.1	1922.9	1914.7	1916.8	1919.8	1929.1	1939.3	1952.7	1978.3	2000.9	2034.8
15°	1960.9	1950.6	1942.4	1946.5	1953.7	1966.0	1983.5	2007.1	2049.1	2088.1	2133.3
17.5°	1990.6	1988.6	1985.5	1998.9	2004.0	2032.7	2058.4	2101.5	2158.9	2217.4	2282.1
20°	2019.4	2041.9	2053.2	2079.9	2096.3	2135.3	2174.3	2226.6	2299.5	2379.5	2467.8
22.5°	2059.4	2121.0	2158.9	2213.3	2241.0	2283.1	2340.5	2409.3	2490.4	2593.0	2705.8
25°	2154.8	2245.1	2321.1	2406.2	2476.0	2540.6	2609.4	2692.5	2809.5	2902.9	3050.6
27.5°	2196.9	2324.1	2438.0	2558.1	2662.7	2762.3	2871.0	2971.6	3110.1	3236.3	3414.9
30°	2156.9	2300.5	2448.3	2605.3	2758.2	2909.0	3067.0	3220.9	3381.0	3557.5	3747.3
32.5°	2083.0	2244.1	2410.3	2595.0	2784.9	2980.8	3186.1	3409.7	3635.5	3855.1	4049.0
35°	2008.1	2181.5	2366.2	2577.6	2801.3	3044.5	3298.9	3582.1	3880.7	4158.8	4412.3
37.5°	1899.3	2090.2	2301.6	2545.8	2811.5	3111.2	3438.5	3787.4	4165.0	4547.7	4880.2
40°	1768.0	1970.1	2201.0	2482.1	2801.3	3179.9	3605.7	4053.1	4538.5	5005.3	5413.7
42.5°	1647.9	1844.9	2091.2	2397.0	2774.6	3240.4	3764.8	4322.0	4896.6	5418.9	5952.4
45°	1542.2	1759.8	2007.1	2337.5	2761.2	3291.7	3882.8	4523.1	5180.8	5802.6	6432.7
47.5°	1445.8	1671.5	1948.6	2304.6	2755.1	3322.5	3964.9	4654.4	5382.9	6097.1	6828.7
50°	1346.3	1565.8	1862.4	2268.7	2739.7	3321.5	4008.0	4743.7	5524.6	6325.9	7101.7
52.5°	1239.5	1460.1	1757.7	2203.0	2706.9	3303.0	4019.3	4804.2	5636.4	6466.5	7333.6
55°	1142.1	1348.3	1645.9	2093.3	2638.1	3257.9	3993.6	4829.9	5715.4	6606.1	7496.7
57.5°	1030.2	1244.7	1527.9	1942.4	2508.8	3177.8	3920.7	4794.0	5738.0	6699.4	7626.0
60°	876.3	1086.6	1378.1	1763.9	2306.7	3008.5	3785.3	4685.2	5666.2	6715.9	7718.4
62.5°	699.8	881.4	1162.6	1517.6	2022.5	2742.8	3534.9	4441.0	5442.5	6561.9	7671.2
65°	520.2	641.3	883.5	1195.4	1693.1	2342.6	3131.7	4031.6	5005.3	6134.1	7374.6
67.5°	362.2	449.4	598.2	830.1	1231.3	1809.0	2556.0	3392.3	4329.1	5341.9	6759.0
70°	274.0	314.0	395.1	524.3	797.3	1232.4	1858.3	2603.2	3472.3	4448.2	5783.1
72.5°	234.0	254.5	299.6	359.1	488.4	749.1	1166.7	1791.6	2562.2	3356.4	4436.9
75°	210.4	227.8	256.5	294.5	345.8	454.6	684.4	1133.8	1697.2	2248.2	3095.8
77.5°	190.9	206.2	231.9	251.4	279.1	327.3	436.1	678.3	1016.9	1389.3	1920.9
80°	170.3	179.6	203.2	222.7	244.2	271.9	313.0	425.8	583.9	822.9	1132.8
82.5°	145.7	152.9	170.3	197.0	213.4	224.7	237.0	282.2	349.9	446.4	629.0
85°	112.9	118.0	133.4	152.9	160.1	161.1	163.2	175.5	217.5	334.5	541.8
87.5°	57.5	63.6	80.0	86.2	72.9	79.0	80.0	85.2	112.9	183.7	186.8
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°	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	0°
2.5°	1788.5	1791.6	1798.8	1797.7	1802.9	1802.9	1802.9	1808.0	1804.9	1808.0	1813.1	2.5°
5°	1839.8	1844.9	1855.2	1855.2	1856.2	1853.1	1859.3	1863.4	1858.3	1856.2	1857.3	5°
7.5°	1914.7	1922.9	1931.1	1939.3	1945.5	1942.4	1943.4	1934.2	1932.2	1925.0	1915.7	7.5°
10°	1987.6	2010.1	2025.5	2039.9	2040.9	2037.8	2038.9	2023.5	2020.4	2006.0	1996.8	10°
12.5°	2062.5	2091.2	2115.8	2131.2	2140.5	2142.5	2143.5	2143.5	2129.2	2116.9	2095.3	12.5°
15°	2173.3	2223.6	2261.5	2278.0	2291.3	2303.6	2306.7	2310.8	2299.5	2283.1	2280.0	15°
17.5°	2348.8	2396.0	2446.2	2490.4	2520.1	2522.2	2547.8	2545.8	2569.4	2550.9	2545.8	17.5°
20°	2557.1	2659.7	2712.0	2770.5	2804.3	2820.8	2880.3	2861.8	2879.3	2909.0	2879.3	20°
22.5°	2817.7	2948.0	3023.9	3104.0	3159.4	3199.4	3242.5	3276.4	3323.6	3346.1	3325.6	22.5°
25°	3163.5	3312.3	3402.6	3513.4	3601.6	3673.5	3748.4	3838.7	3837.6	3892.0	3930.0	25°
27.5°	3560.6	3750.4	3881.8	4076.7	4152.6	4273.7	4402.0	4541.5	4566.2	4637.0	4672.9	27.5°
30°	3934.1	4169.1	4429.7	4661.6	4924.3	5103.8	5252.6	5351.1	5499.9	5463.0	5442.5	30°
32.5°	4278.9	4591.8	4963.3	5344.0	5760.6	6044.8	6307.5	6429.6	6521.9	6325.9	6066.3	32.5°
35°	4726.2	5100.8	5525.6	5995.5	6525.0	6928.3	7199.2	7237.1	7184.8	6933.4	6503.5	35°
37.5°	5280.3	5673.3	6156.6	6653.3	7215.6	7594.2	7903.1	7958.5	7819.9	7371.5	6920.1	37.5°
40°	5827.3	6288.0	6812.3	7400.3	7983.1	8399.7	8709.6	8726.0	8500.3	7975.9	7447.5	40°
42.5°	6425.5	6929.3	7513.1	8164.7	8767.0	9188.8	9412.5	9483.3	9164.1	8492.0	7985.2	42.5°
45°	6941.6	7543.9	8194.5	8887.1	9517.1	9917.3	10145.1	10122.5	9736.7	9072.8	8478.7	45°
47.5°	7444.4	8107.3	8792.7	9528.4	10154.3	10558.6	10792.6	10772.1	10282.6	9518.2	8864.5	47.5°
50°	7891.8	8611.1	9343.7	10129.7	10753.6	11124.0	11410.3	11320.0	10701.3	9876.3	9112.8	50°
52.5°	8202.7	9005.1	9770.6	10620.2	11262.5	11613.5	11977.7	11687.3	10948.5	10095.9	9246.2	52.5°
55°	8399.7	9276.0	10074.3	11014.2	11645.3	12064.9	12299.9	11887.4	11044.0	10156.4	9292.4	55°
57.5°	8533.1	9424.8	10252.8	11242.0	11990.0	12342.0	12399.5	11894.6	10982.4	10061.0	9246.2	57.5°
60°	8598.8	9468.9	10333.9	11402.1	12232.2	12425.1	12320.4	11728.4	10770.0	9780.8	8948.7	60°
62.5°	8591.6	9413.5	10291.8	11455.4	12280.4	12305.1	12067.0	11445.2	10379.1	9192.9	8454.1	62.5°
65°	8408.9	9211.3	10054.8	11257.4	12055.7	11950.0	11650.4	10913.7	9618.7	8425.4	8051.8	65°
67.5°	7882.5	8652.1	9435.0	10608.9	11422.6	11320.0	10866.5	9869.1	8735.2	7746.1	7545.0	67.5°
70°	7002.1	7654.7	8342.2	9373.5	10227.2	10088.7	9295.5	8689.1	7860.0	6961.1	6891.3	70°
72.5°	5853.9	6348.5	6847.2	7614.7	8202.7	7919.5	7420.8	7389.0	6718.9	6032.5	6046.8	72.5°
75°	4578.5	4949.9	5182.9	5634.3	6025.3	5771.8	5801.6	5978.1	5757.5	5216.7	5041.3	75°
77.5°	3317.4	3673.5	3747.3	4015.2	4290.1	4578.5	4960.2	5375.8	5445.5	5141.8	4505.6	77.5°
80°	2171.2	2563.2	2417.5	2512.9	2899.8	3426.2	4122.9	4807.3	5042.3	4769.3	3986.4	80°
82.5°	1280.6	1829.5	1597.6	1760.8	2006.0	2464.7	2945.9	3462.1	3855.1	3564.7	3329.7	82.5°
85°	972.7	1442.7	1527.9	1725.9	1805.9	1825.4	1909.6	2077.9	2281.0	2357.0	2350.8	85°
87.5°	506.9	1121.5	1259.0	1164.6	1086.6	942.0	734.7	791.1	723.4	989.2	936.8	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°
1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6
1814.2	1811.1	1813.1	1814.2	1814.2	1814.2	1816.2
1856.2	1848.0	1844.9	1844.9	1843.9	1840.8	1839.8
1901.4	1887.0	1881.9	1875.7	1870.6	1867.5	1862.4
1982.4	1970.1	1944.5	1930.1	1916.8	1907.5	1899.3
2091.2	2073.8	2049.1	2030.7	2010.1	2004.0	1993.7
2259.5	2244.1	2222.5	2202.0	2189.7	2168.2	2152.8
2522.2	2491.4	2469.8	2443.2	2413.4	2369.3	2347.7
2868.0	2806.4	2763.3	2739.7	2680.2	2673.0	2620.7
3265.1	3246.6	3180.9	3152.2	3094.7	3072.2	2990.1
3859.2	3844.8	3710.4	3696.0	3607.8	3542.1	3414.9
4640.0	4522.0	4370.2	4264.5	4113.7	3944.3	3727.8
5322.4	5081.3	4849.4	4603.1	4394.8	4151.6	3906.4
5757.5	5434.3	5135.7	4883.2	4625.7	4336.3	4021.3
6139.2	5812.9	5487.6	5189.0	4877.1	4506.7	4117.8
6595.8	6271.6	5905.2	5485.6	5085.4	4631.8	4156.8
7063.7	6684.1	6226.4	5712.3	5209.5	4693.4	4149.6
7542.9	7057.6	6449.1	5863.2	5288.5	4702.6	4101.3
7931.8	7318.2	6614.3	5940.1	5305.0	4670.8	4040.8
8206.8	7485.4	6688.2	5966.8	5284.4	4620.6	3958.7
8363.8	7576.8	6706.6	5947.3	5242.4	4548.7	3869.4
8421.2	7604.5	6688.2	5907.3	5204.4	4471.8	3806.9
8415.1	7589.1	6620.4	5813.9	5102.8	4369.2	3729.9
8299.1	7446.4	6481.9	5702.1	5016.6	4322.0	3735.0
8102.1	7356.1	6440.9	5724.6	5061.8	4423.5	3897.1
8012.9	7536.7	6671.7	5950.4	5293.7	4713.9	4231.7
7962.6	7830.2	7002.1	6193.6	5568.7	5065.9	4630.8
7757.4	7914.4	7189.9	6332.1	5813.9	5418.9	5030.0
7425.9	7718.4	7047.3	6305.4	5949.4	5689.8	5173.6
6734.3	7043.2	6412.1	5912.4	5780.1	5693.9	4958.1
5455.8	5615.9	5256.7	5143.9	5193.1	5194.1	4158.8
4023.4	3926.9	3764.8	3773.0	4104.4	4053.1	2964.4
3284.6	2688.4	2458.5	2545.8	2955.2	2734.6	1862.4
3056.8	2398.0	1979.4	1999.9	2231.8	1761.8	1121.5
2471.9	2185.6	1752.6	1573.0	1526.8	1173.9	761.4
1034.3	951.2	708.0	638.2	523.3	320.1	145.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)