

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: P159023

Luminaire Tested: **VTS-F07-LED-E1-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159023
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-F07-LED-E1-SLR-8030
Description: VENTUS LED SITE LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (49) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13106.3 lumens
Efficiency: N/A
Efficacy: 72.6 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 - G3

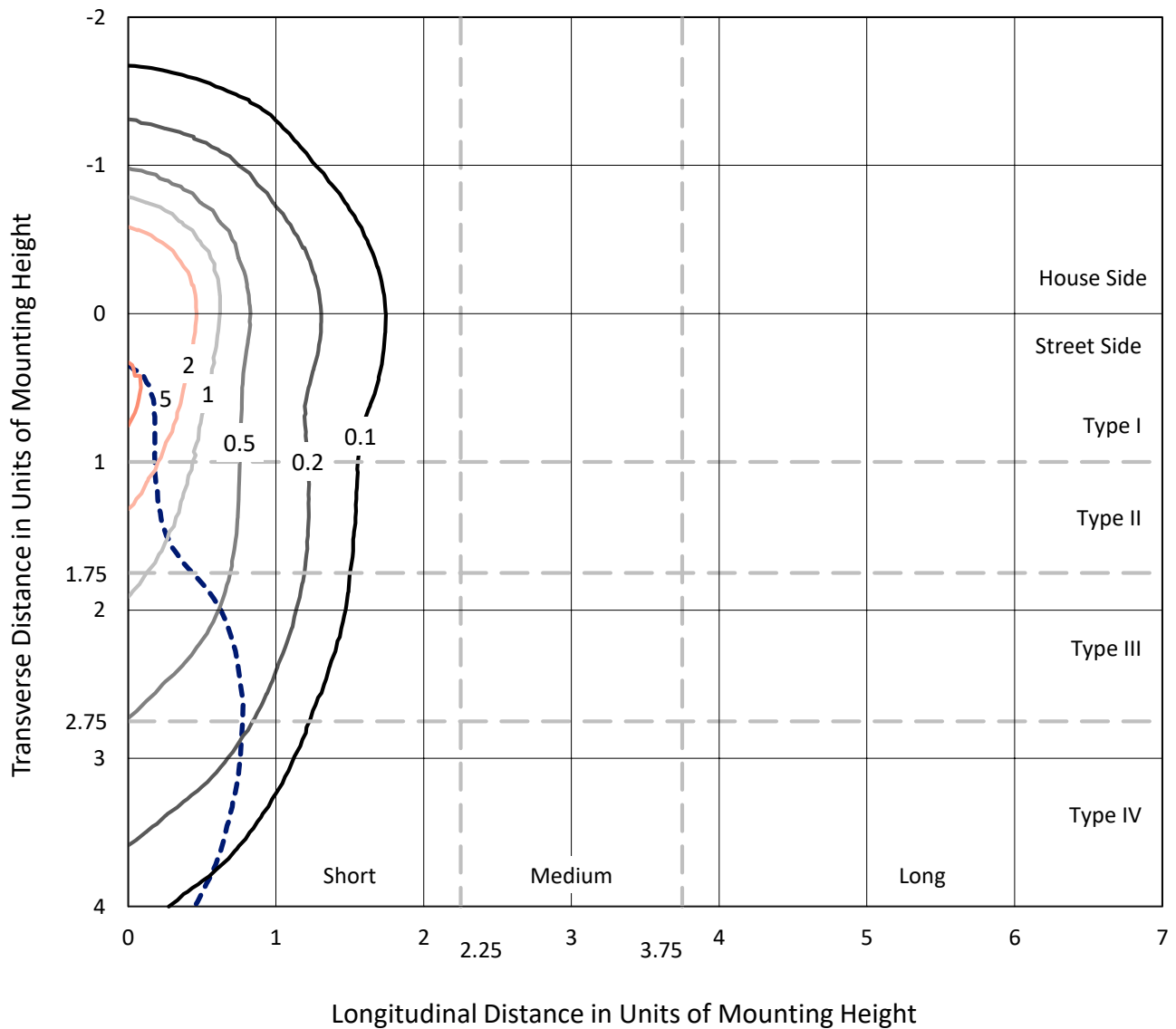
Input Watts (W): 180.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

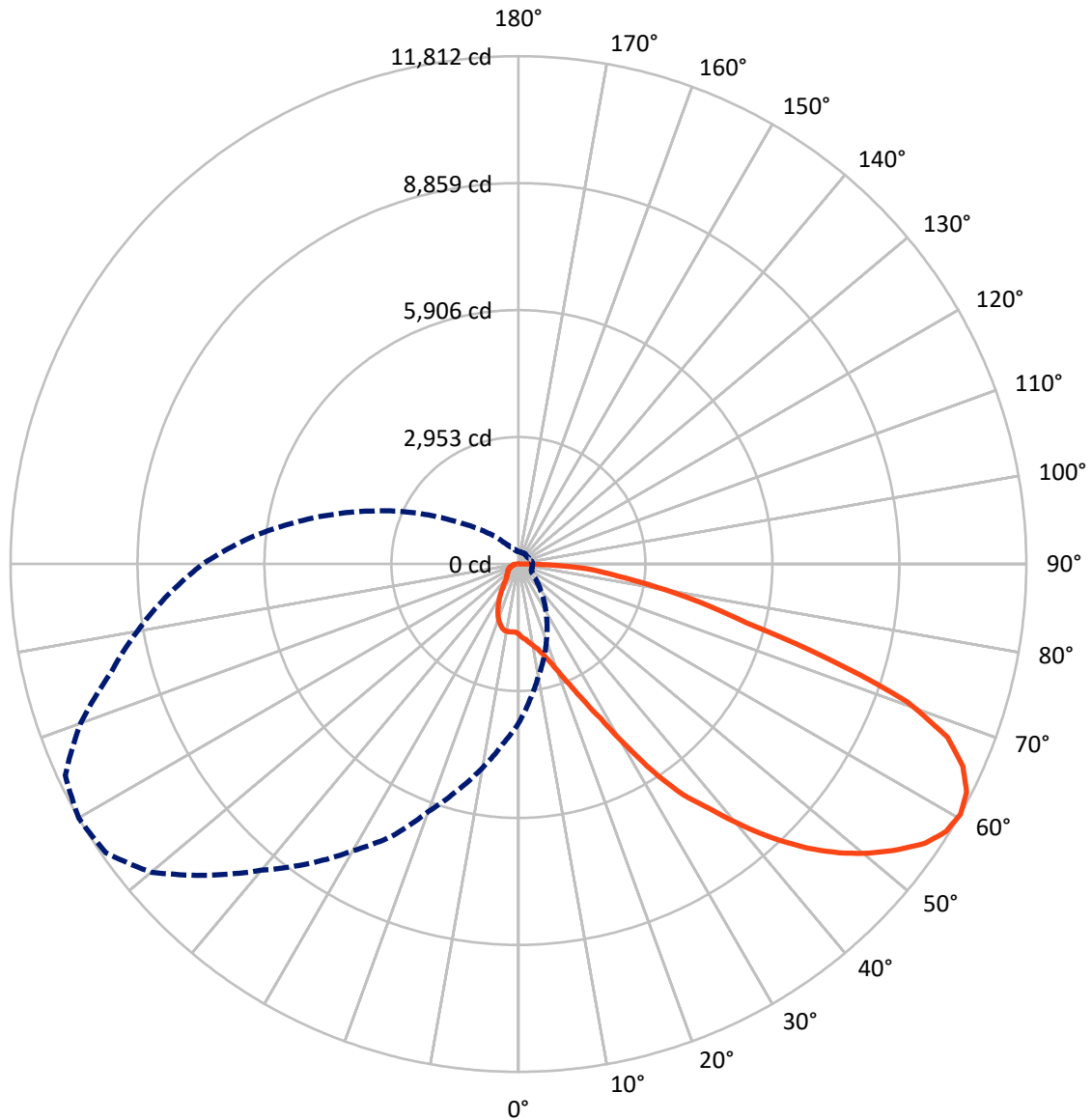
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 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	2951.1	0.0	2951.1
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	10155.2	0.0	10155.2
	% Fixture	77.5	0.0	77.5
Total	Lumens	13106.3	0.0	13106.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	1.2
10°-20°	519.2	4.0
20°-30°	985.2	7.5
30°-40°	1551.6	11.8
40°-50°	2165.6	16.5
50°-60°	2678.4	20.4
60°-70°	2776.3	21.2
70°-80°	1746.9	13.3
80°-90°	522.2	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°	13106.3	100.0
0°-180°	13106.3	100.0



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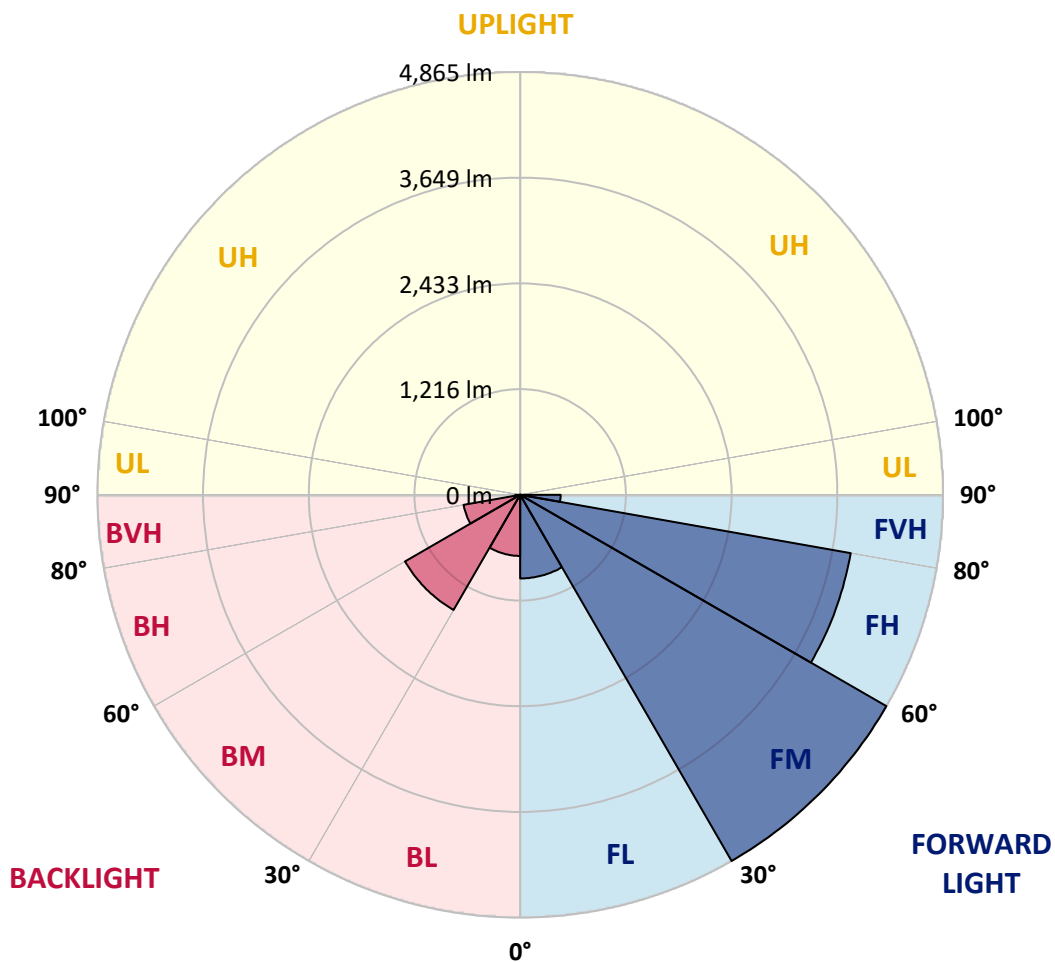
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	962.2	7.3			
FM	(30°-60°)	4865.3	37.1			
FH	(60°-80°)	3862.3	29.5			G2/5000
FVH	(80°-90°)	465.4	3.6			G3/500
BL	(0°-30°)	703.1	5.4	B2/1000		
BM	(30°-60°)	1530.3	11.7	B2/2500		
BH	(60°-80°)	660.9	5.0	B2/1000		G2/1000
BVH	(80°-90°)	56.8	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°	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9
2.5°	1726.5	1623.1	1625.1	1622.1	1622.1	1620.2	1622.1	1620.2	1618.2	1618.2	1619.2
5°	1748.9	1634.8	1634.8	1631.9	1629.9	1628.0	1629.9	1628.0	1627.0	1625.1	1626.0
7.5°	1770.4	1641.6	1637.7	1633.8	1629.0	1630.9	1630.9	1629.9	1630.9	1629.9	1631.9
10°	1805.5	1664.1	1654.3	1645.6	1644.6	1642.6	1642.6	1639.7	1639.7	1637.7	1638.7
12.5°	1895.3	1733.3	1722.6	1707.0	1704.1	1695.3	1690.4	1684.6	1674.8	1666.0	1659.2
15°	2046.5	1848.4	1828.0	1814.3	1808.4	1790.9	1763.6	1742.1	1713.8	1689.4	1664.1
17.5°	2231.8	2002.6	1978.2	1960.6	1931.4	1883.6	1837.7	1785.0	1730.4	1680.7	1634.8
20°	2491.2	2224.0	2176.2	2134.2	2061.1	1979.1	1893.3	1801.6	1717.7	1639.7	1572.4
22.5°	2842.4	2509.8	2421.0	2308.8	2173.3	2034.7	1898.2	1771.4	1659.2	1557.8	1468.0
25°	3246.2	2782.9	2622.9	2429.8	2222.0	2030.8	1851.4	1688.5	1557.8	1427.1	1329.5
27.5°	3543.7	3011.2	2775.1	2521.5	2256.2	2012.3	1791.9	1594.8	1436.8	1303.2	1185.1
30°	3713.5	3141.9	2858.0	2560.5	2262.0	1981.1	1716.8	1488.5	1306.1	1147.1	1034.0
32.5°	3822.7	3212.1	2866.8	2521.5	2191.8	1888.4	1602.6	1365.6	1167.6	997.9	877.9
35°	3914.4	3240.4	2825.8	2434.7	2059.1	1748.0	1456.3	1219.3	1009.6	853.5	730.6
37.5°	3951.5	3235.5	2760.5	2318.6	1929.4	1594.8	1307.1	1064.2	876.9	739.4	634.0
40°	3944.6	3190.6	2671.7	2194.7	1777.2	1434.9	1149.1	935.4	783.3	667.2	590.1
42.5°	3898.8	3131.1	2573.2	2068.9	1637.7	1302.2	1041.8	852.5	729.6	641.8	574.5
45°	3841.2	3059.9	2483.4	1953.8	1527.5	1207.6	979.3	829.1	722.8	638.9	566.7
47.5°	3763.2	2980.9	2392.7	1871.8	1469.0	1179.3	978.4	842.8	728.6	632.1	553.1
50°	3678.3	2923.4	2343.0	1836.7	1462.2	1196.9	1012.5	864.2	732.5	625.3	534.5
52.5°	3618.8	2898.0	2342.0	1849.4	1498.3	1245.6	1052.5	891.5	747.2	629.2	530.6
55°	3545.7	2894.1	2367.4	1904.0	1577.3	1328.5	1115.9	938.4	777.4	643.8	533.6
57.5°	3550.6	2971.2	2465.9	2038.6	1719.7	1440.7	1196.9	995.9	806.7	652.6	528.7
60°	3704.7	3150.6	2660.0	2268.8	1906.0	1572.4	1279.8	1027.1	804.7	633.1	505.3
62.5°	4022.7	3419.9	2950.7	2539.0	2095.2	1673.8	1310.0	1018.3	775.5	591.1	467.2
65°	4402.1	3734.9	3233.5	2748.8	2210.3	1697.2	1283.7	969.6	716.9	536.5	421.4
67.5°	4781.6	3958.3	3396.4	2808.3	2163.5	1602.6	1186.1	860.3	617.4	462.4	369.7
70°	4918.1	4004.1	3383.8	2674.6	1950.9	1367.6	976.4	692.6	495.5	378.5	311.2
72.5°	4713.3	3717.4	3008.2	2272.8	1586.0	1060.3	716.0	511.1	378.5	296.5	253.6
75°	3953.4	2993.6	2378.1	1711.9	1145.2	750.1	517.0	372.6	284.8	235.1	202.9
77.5°	2818.0	2084.5	1620.2	1124.7	743.3	519.9	370.7	279.9	226.3	188.3	164.8
80°	1770.4	1279.8	987.1	675.0	463.3	353.1	266.3	221.4	182.4	153.1	137.5
82.5°	1066.1	745.2	581.4	419.4	304.3	241.9	196.1	173.6	145.3	126.8	118.0
85°	723.8	548.2	381.4	247.8	183.4	142.4	133.6	120.0	108.3	90.7	87.8
87.5°	138.5	196.1	170.7	101.4	67.3	57.6	50.7	48.8	43.9	35.1	40.0
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°	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9
2.5°	1613.4	1611.4	1607.5	1607.5	1604.6	1598.7	1597.8	1593.9	1589.0	1590.0	1589.0
5°	1619.2	1615.3	1610.4	1608.5	1604.6	1598.7	1595.8	1590.9	1586.0	1586.0	1586.0
7.5°	1626.0	1621.2	1617.3	1610.4	1602.6	1596.8	1589.0	1583.1	1580.2	1579.2	1580.2
10°	1631.9	1629.0	1623.1	1613.4	1602.6	1590.9	1583.1	1575.3	1567.5	1568.5	1569.5
12.5°	1644.6	1634.8	1619.2	1604.6	1588.0	1573.4	1559.7	1550.0	1540.2	1540.2	1541.2
15°	1635.8	1607.5	1586.0	1557.8	1539.2	1515.8	1500.2	1491.4	1485.6	1483.6	1484.6
17.5°	1584.1	1550.0	1517.8	1492.4	1467.0	1448.5	1441.7	1435.8	1428.0	1431.9	1428.0
20°	1506.1	1464.1	1418.3	1388.0	1357.8	1345.1	1333.4	1327.6	1322.7	1340.2	1340.2
22.5°	1393.9	1343.2	1296.3	1259.3	1225.1	1211.5	1199.8	1193.0	1195.9	1217.3	1219.3
25°	1252.5	1191.0	1129.5	1107.1	1073.0	1062.2	1055.4	1054.4	1057.4	1078.8	1083.7
27.5°	1102.2	1037.9	985.2	933.5	917.9	909.1	896.4	911.1	914.0	937.4	947.1
30°	942.3	873.0	817.4	783.3	750.1	755.0	744.3	761.8	769.6	794.0	801.8
32.5°	778.4	713.0	657.4	623.3	599.9	602.8	595.0	610.6	618.4	647.7	662.3
35°	643.8	588.2	543.3	514.1	503.3	492.6	490.6	492.6	500.4	522.8	549.2
37.5°	566.7	520.9	488.7	467.2	452.6	445.8	441.9	441.9	441.9	446.7	459.4
40°	533.6	492.6	464.3	443.8	434.1	430.2	427.2	424.3	419.4	417.5	418.5
42.5°	518.9	472.1	441.9	426.3	420.4	420.4	420.4	418.5	413.6	408.7	403.8
45°	504.3	453.6	423.3	412.6	409.7	410.7	410.7	410.7	406.8	400.9	392.1
47.5°	485.8	433.1	402.9	396.0	396.0	399.0	399.9	399.9	396.0	390.2	383.3
50°	463.3	406.8	379.4	373.6	370.7	370.7	370.7	370.7	367.7	363.8	359.0
52.5°	451.6	392.1	363.8	358.0	358.0	355.1	354.1	351.2	348.2	345.3	338.5
55°	447.7	386.3	357.0	352.1	352.1	349.2	346.3	343.4	338.5	333.6	326.8
57.5°	437.0	373.6	348.2	344.3	344.3	342.4	339.4	336.5	331.6	324.8	316.0
60°	412.6	352.1	330.7	329.7	329.7	328.7	326.8	326.8	321.9	315.1	304.3
62.5°	381.4	329.7	309.2	309.2	308.2	307.3	303.4	302.4	296.5	287.8	278.0
65°	351.2	310.2	296.5	292.6	290.7	287.8	285.8	280.9	276.0	268.2	258.5
67.5°	313.1	280.9	272.1	268.2	264.3	261.4	258.5	255.6	249.7	243.9	236.1
70°	272.1	248.7	243.9	242.9	238.0	235.1	234.1	231.2	225.3	219.5	209.7
72.5°	233.1	219.5	215.6	215.6	209.7	205.8	203.9	202.9	199.0	194.1	185.3
75°	188.3	178.5	177.5	182.4	182.4	179.5	177.5	179.5	173.6	170.7	161.9
77.5°	154.1	149.2	146.3	148.3	154.1	151.2	147.3	147.3	147.3	142.4	139.5
80°	130.7	126.8	123.9	125.8	124.9	123.9	121.9	118.0	118.0	118.0	117.1
82.5°	118.0	117.1	106.3	106.3	102.4	99.5	97.5	95.6	93.6	93.6	98.5
85°	88.8	91.7	85.8	84.9	80.0	76.1	72.2	70.2	68.3	71.2	81.0
87.5°	42.9	42.9	41.0	45.8	41.9	40.0	37.1	35.1	37.1	45.8	54.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9
2.5°	1587.0	1586.0	1585.1	1583.1	1579.2	1578.2	1576.3	1576.3	1575.3	1573.4	1575.3
5°	1584.1	1586.0	1586.0	1585.1	1582.1	1584.1	1584.1	1587.0	1587.0	1589.0	1593.9
7.5°	1580.2	1585.1	1589.0	1591.9	1595.8	1598.7	1604.6	1613.4	1617.3	1624.1	1627.0
10°	1572.4	1581.2	1588.0	1596.8	1606.5	1617.3	1626.0	1639.7	1644.6	1654.3	1659.2
12.5°	1550.0	1564.6	1576.3	1593.9	1610.4	1627.0	1642.6	1660.2	1669.0	1679.7	1686.5
15°	1495.3	1511.9	1528.5	1544.1	1573.4	1605.6	1630.9	1654.3	1667.0	1680.7	1687.5
17.5°	1430.0	1440.7	1454.4	1474.8	1503.1	1531.4	1572.4	1605.6	1625.1	1640.7	1642.6
20°	1353.9	1369.5	1379.3	1387.1	1409.5	1429.0	1472.9	1510.9	1536.3	1554.8	1559.7
22.5°	1237.8	1254.4	1271.0	1276.8	1294.4	1319.8	1344.1	1385.1	1421.2	1448.5	1465.1
25°	1105.2	1120.8	1143.2	1160.8	1164.7	1185.1	1209.5	1256.4	1293.4	1337.3	1356.8
27.5°	972.5	986.2	1010.5	1020.3	1032.0	1052.5	1072.0	1111.0	1150.0	1200.8	1222.2
30°	817.4	846.7	875.0	893.5	903.2	927.6	941.3	979.3	1015.4	1052.5	1083.7
32.5°	684.8	711.1	743.3	766.7	778.4	796.9	818.4	850.6	878.9	915.0	951.0
35°	562.8	598.9	620.4	640.9	671.1	679.9	701.3	730.6	747.2	786.2	827.2
37.5°	477.0	498.4	519.9	540.4	565.7	577.5	597.9	622.3	641.8	665.2	702.3
40°	424.3	436.0	451.6	465.3	483.8	498.4	509.2	529.7	544.3	567.7	594.0
42.5°	399.9	402.9	404.8	414.6	424.3	434.1	445.8	454.6	472.1	489.7	506.2
45°	386.3	380.4	377.5	378.5	382.4	388.2	398.0	407.7	419.4	430.2	439.9
47.5°	374.6	366.8	358.0	353.1	354.1	356.0	363.8	371.6	377.5	386.3	390.2
50°	347.3	340.4	332.6	325.8	326.8	327.7	334.6	340.4	344.3	347.3	352.1
52.5°	329.7	319.9	313.1	306.3	305.3	308.2	314.1	319.9	321.9	323.8	324.8
55°	317.0	307.3	298.5	291.7	288.7	295.6	297.5	305.3	308.2	308.2	309.2
57.5°	307.3	295.6	286.8	279.9	275.1	279.9	284.8	293.6	294.6	292.6	292.6
60°	292.6	283.9	275.1	268.2	263.4	267.3	271.2	280.9	280.9	276.0	275.1
62.5°	267.3	262.4	256.5	253.6	252.6	256.5	259.5	267.3	264.3	258.5	256.5
65°	248.7	244.8	239.0	237.0	236.1	241.9	242.9	247.8	243.9	240.9	240.0
67.5°	226.3	223.4	220.4	219.5	216.5	216.5	218.5	221.4	219.5	219.5	220.4
70°	200.9	197.0	194.1	195.1	193.1	193.1	194.1	196.1	195.1	197.0	199.0
72.5°	177.5	172.7	171.7	171.7	169.7	170.7	170.7	171.7	173.6	174.6	179.5
75°	155.1	150.2	150.2	149.2	149.2	149.2	150.2	152.2	154.1	155.1	157.0
77.5°	134.6	131.7	132.7	131.7	131.7	131.7	131.7	134.6	135.6	136.6	139.5
80°	116.1	116.1	117.1	117.1	116.1	115.1	116.1	118.0	119.0	120.0	121.0
82.5°	105.3	106.3	106.3	106.3	101.4	99.5	102.4	104.4	106.3	107.3	109.2
85°	90.7	86.8	90.7	89.7	82.9	81.9	81.9	82.9	84.9	82.9	82.9
87.5°	58.5	52.7	55.6	55.6	48.8	40.0	50.7	54.6	48.8	51.7	51.7
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9
2.5°	1578.2	1576.3	1577.3	1577.3	1579.2	1576.3	1580.2	1584.1	1585.1	1585.1	1586.0
5°	1598.7	1596.8	1603.6	1600.7	1607.5	1606.5	1611.4	1615.3	1617.3	1617.3	1617.3
7.5°	1630.9	1637.7	1641.6	1652.4	1653.4	1659.2	1664.1	1669.0	1667.0	1668.0	1667.0
10°	1667.0	1675.8	1685.5	1696.3	1697.2	1704.1	1711.9	1716.8	1714.8	1713.8	1710.9
12.5°	1698.2	1704.1	1715.8	1726.5	1732.4	1743.1	1750.9	1754.8	1754.8	1751.9	1748.9
15°	1696.3	1705.1	1717.7	1733.3	1744.1	1759.7	1773.3	1782.1	1783.1	1780.2	1779.2
17.5°	1653.4	1666.0	1677.7	1699.2	1718.7	1740.2	1762.6	1775.3	1787.0	1793.8	1797.7
20°	1576.3	1591.9	1608.5	1636.8	1663.1	1691.4	1717.7	1736.3	1753.8	1774.3	1798.7
22.5°	1485.6	1509.0	1532.4	1568.5	1600.7	1632.9	1663.1	1685.5	1712.9	1748.0	1793.8
25°	1379.3	1403.6	1432.9	1474.8	1515.8	1562.6	1607.5	1652.4	1705.1	1765.5	1836.7
27.5°	1253.4	1280.7	1318.8	1369.5	1416.3	1464.1	1534.4	1605.6	1691.4	1769.4	1850.4
30°	1128.6	1163.7	1204.7	1255.4	1302.2	1370.5	1440.7	1528.5	1619.2	1707.0	1803.6
32.5°	994.0	1037.9	1088.6	1130.5	1183.2	1252.5	1322.7	1416.3	1512.9	1616.3	1722.6
35°	864.2	906.2	946.2	993.0	1045.7	1111.0	1179.3	1269.0	1391.0	1501.2	1628.0
37.5°	732.5	771.6	799.9	836.9	882.8	954.9	1028.1	1131.5	1246.6	1382.2	1509.0
40°	617.4	649.6	681.8	711.1	750.1	818.4	896.4	997.9	1111.0	1242.7	1384.1
42.5°	525.8	550.1	585.3	620.4	653.5	712.1	785.2	884.7	996.9	1131.5	1272.9
45°	448.7	465.3	493.6	522.8	563.8	612.6	682.8	784.2	898.4	1034.0	1183.2
47.5°	393.1	400.9	420.4	450.6	488.7	536.5	597.0	688.7	799.9	936.4	1093.5
50°	355.1	363.8	373.6	399.0	433.1	481.9	531.6	611.6	713.0	846.7	1002.7
52.5°	328.7	332.6	336.5	352.1	383.3	424.3	477.0	537.5	639.9	767.7	908.1
55°	313.1	314.1	317.0	324.8	348.2	386.3	432.1	489.7	569.7	690.6	834.0
57.5°	294.6	296.5	299.5	304.3	319.0	353.1	392.1	438.9	505.3	606.7	744.3
60°	277.0	281.9	286.8	289.7	297.5	318.0	351.2	388.2	441.9	518.0	627.2
62.5°	258.5	264.3	268.2	271.2	274.1	286.8	311.2	335.5	368.7	418.5	500.4
65°	241.9	245.8	248.7	250.7	252.6	256.5	267.3	277.0	286.8	317.0	376.5
67.5°	223.4	225.3	226.3	227.3	226.3	226.3	227.3	231.2	235.1	246.8	275.1
70°	201.9	204.8	204.8	205.8	205.8	202.9	202.9	202.9	202.9	205.8	221.4
72.5°	181.4	185.3	185.3	186.3	185.3	184.4	184.4	184.4	187.3	189.2	195.1
75°	161.9	165.8	164.8	165.8	166.8	166.8	168.7	169.7	172.7	173.6	177.5
77.5°	142.4	145.3	146.3	145.3	147.3	149.2	153.1	155.1	156.1	157.0	158.0
80°	123.9	125.8	124.9	121.9	126.8	129.7	135.6	142.4	140.5	141.4	143.4
82.5°	102.4	99.5	97.5	99.5	102.4	106.3	112.2	121.0	121.9	126.8	125.8
85°	79.0	70.2	69.3	74.1	73.2	78.0	87.8	94.6	100.5	105.3	100.5
87.5°	46.8	41.9	35.1	33.2	36.1	47.8	49.7	60.5	65.4	67.3	60.5
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°	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9
2.5°	1674.8	1679.7	1679.7	1681.6	1684.6	1685.5	1689.4	1696.3	1697.2	1697.2	1700.2
5°	1706.0	1710.9	1710.9	1714.8	1715.8	1720.7	1725.5	1733.3	1737.2	1736.3	1748.9
7.5°	1756.7	1752.8	1749.9	1755.8	1758.7	1764.6	1774.3	1781.1	1788.0	1798.7	1816.3
10°	1799.7	1793.8	1790.9	1794.8	1796.7	1803.6	1809.4	1819.2	1835.8	1852.3	1873.8
12.5°	1834.8	1828.0	1820.2	1822.1	1825.0	1833.8	1843.6	1856.2	1880.6	1902.1	1934.3
15°	1864.0	1854.3	1846.5	1850.4	1857.2	1868.9	1885.5	1907.9	1947.9	1985.0	2027.9
17.5°	1892.3	1890.4	1887.5	1900.1	1905.0	1932.3	1956.7	1997.7	2052.3	2107.9	2169.4
20°	1919.6	1941.1	1951.8	1977.2	1992.8	2029.9	2066.9	2116.7	2185.9	2262.0	2345.9
22.5°	1957.7	2016.2	2052.3	2104.0	2130.3	2170.3	2225.0	2290.3	2367.4	2464.9	2572.2
25°	2048.4	2134.2	2206.4	2287.4	2353.7	2415.2	2480.5	2559.5	2670.7	2759.5	2900.0
27.5°	2088.4	2209.3	2317.6	2431.7	2531.2	2625.9	2729.3	2824.8	2956.5	3076.5	3246.2
30°	2050.4	2186.9	2327.4	2476.6	2622.0	2765.3	2915.6	3061.9	3214.0	3381.8	3562.3
32.5°	1980.1	2133.3	2291.3	2466.9	2647.3	2833.6	3028.7	3241.4	3455.9	3664.7	3849.0
35°	1908.9	2073.8	2249.3	2450.3	2662.9	2894.1	3136.0	3405.2	3689.1	3953.4	4194.3
37.5°	1805.5	1987.0	2187.9	2420.0	2672.7	2957.5	3268.7	3600.3	3959.3	4323.1	4639.1
40°	1680.7	1872.8	2092.3	2359.6	2662.9	3022.9	3427.7	3852.9	4314.3	4758.1	5146.4
42.5°	1566.5	1753.8	1987.9	2278.6	2637.6	3080.4	3578.9	4108.5	4654.8	5151.2	5658.5
45°	1466.1	1672.9	1907.9	2222.0	2624.9	3129.2	3691.0	4299.7	4924.9	5516.1	6115.0
47.5°	1374.4	1589.0	1852.3	2190.8	2619.0	3158.4	3769.1	4424.5	5117.1	5796.0	6491.5
50°	1279.8	1488.5	1770.4	2156.7	2604.4	3157.5	3810.0	4509.4	5251.7	6013.5	6750.9
52.5°	1178.3	1388.0	1670.9	2094.2	2573.2	3139.9	3820.8	4567.0	5358.0	6147.2	6971.4
55°	1085.7	1281.7	1564.6	1989.9	2507.8	3097.0	3796.4	4591.3	5433.1	6279.8	7126.5
57.5°	979.3	1183.2	1452.4	1846.5	2384.9	3020.9	3727.1	4557.2	5454.6	6368.6	7249.4
60°	833.0	1033.0	1310.0	1676.8	2192.8	2860.0	3598.4	4453.8	5386.3	6384.2	7337.2
62.5°	665.2	837.9	1105.2	1442.7	1922.6	2607.3	3360.4	4221.7	5173.7	6237.9	7292.3
65°	494.5	609.6	839.8	1136.4	1609.5	2226.9	2977.0	3832.5	4758.1	5831.1	7010.4
67.5°	344.3	427.2	568.7	789.1	1170.5	1719.7	2429.8	3224.8	4115.3	5078.1	6425.2
70°	260.4	298.5	375.5	498.4	757.9	1171.5	1766.5	2474.7	3300.9	4228.5	5497.5
72.5°	222.4	241.9	284.8	341.4	464.3	712.1	1109.1	1703.1	2435.6	3190.6	4217.8
75°	200.0	216.5	243.9	279.9	328.7	432.1	650.6	1077.8	1613.4	2137.2	2942.9
77.5°	181.4	196.1	220.4	239.0	265.3	311.2	414.6	644.8	966.7	1320.7	1826.0
80°	161.9	170.7	193.1	211.7	232.2	258.5	297.5	404.8	555.0	782.3	1076.9
82.5°	138.5	145.3	161.9	187.3	202.9	213.6	225.3	268.2	332.6	424.3	597.9
85°	107.3	112.2	126.8	145.3	152.2	153.1	155.1	166.8	206.8	318.0	515.0
87.5°	54.6	60.5	76.1	81.9	69.3	75.1	76.1	81.0	107.3	174.6	177.5
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	0°
2.5°	1700.2	1703.1	1709.9	1709.0	1713.8	1713.8	1713.8	1718.7	1715.8	1718.7	1723.6	2.5°
5°	1748.9	1753.8	1763.6	1763.6	1764.6	1761.6	1767.5	1771.4	1766.5	1764.6	1765.5	5°
7.5°	1820.2	1828.0	1835.8	1843.6	1849.4	1846.5	1847.5	1838.7	1836.7	1829.9	1821.1	7.5°
10°	1889.4	1910.9	1925.5	1939.2	1940.1	1937.2	1938.2	1923.5	1920.6	1907.0	1898.2	10°
12.5°	1960.6	1987.9	2011.3	2026.0	2034.7	2036.7	2037.7	2037.7	2024.0	2012.3	1991.8	12.5°
15°	2066.0	2113.8	2149.8	2165.5	2178.1	2189.8	2192.8	2196.7	2185.9	2170.3	2167.4	15°
17.5°	2232.8	2277.6	2325.4	2367.4	2395.7	2397.6	2422.0	2420.0	2442.5	2424.9	2420.0	17.5°
20°	2430.8	2528.3	2578.1	2633.7	2665.8	2681.5	2738.0	2720.5	2737.1	2765.3	2737.1	20°
22.5°	2678.5	2802.4	2874.6	2950.7	3003.3	3041.4	3082.4	3114.5	3159.4	3180.9	3161.4	22.5°
25°	3007.2	3148.7	3234.5	3339.9	3423.8	3492.0	3563.2	3649.1	3648.1	3699.8	3735.9	25°
27.5°	3384.7	3565.2	3690.1	3875.4	3947.6	4062.7	4184.6	4317.3	4340.7	4408.0	4442.1	27.5°
30°	3739.8	3963.2	4210.9	4431.4	4681.1	4851.8	4993.2	5086.9	5228.3	5193.2	5173.7	30°
32.5°	4067.5	4365.0	4718.2	5080.0	5476.1	5746.3	5996.0	6112.0	6199.8	6013.5	5766.7	32.5°
35°	4492.8	4848.9	5252.7	5699.4	6202.8	6586.1	6843.6	6879.7	6830.0	6591.0	6182.3	35°
37.5°	5019.6	5393.2	5852.6	6324.7	6859.2	7219.2	7512.8	7565.4	7433.8	7007.5	6578.3	37.5°
40°	5539.5	5977.4	6475.9	7034.8	7588.8	7984.9	8279.4	8295.1	8080.5	7582.0	7079.7	40°
42.5°	6108.1	6587.1	7142.1	7761.5	8334.1	8735.0	8947.6	9014.9	8711.6	8072.7	7590.8	42.5°
45°	6598.8	7171.4	7789.8	8448.2	9047.1	9427.5	9644.1	9622.6	9255.9	8624.8	8060.0	45°
47.5°	7076.7	7706.9	8358.5	9057.8	9652.9	10037.2	10259.6	10240.1	9774.8	9048.1	8426.7	47.5°
50°	7502.0	8185.8	8882.3	9629.4	10222.5	10574.6	10846.8	10760.9	10172.8	9388.5	8662.8	50°
52.5°	7797.6	8560.4	9288.0	10095.7	10706.3	11039.9	11386.2	11110.1	10407.8	9597.3	8789.6	52.5°
55°	7984.9	8817.9	9576.8	10470.3	11070.2	11469.1	11692.5	11300.4	10498.6	9654.8	8833.5	55°
57.5°	8111.7	8959.3	9746.5	10686.8	11397.9	11732.5	11787.1	11307.2	10440.0	9564.1	8789.6	57.5°
60°	8174.1	9001.3	9823.6	10839.0	11628.1	11811.5	11712.0	11149.2	10238.1	9297.8	8506.7	60°
62.5°	8167.3	8948.6	9783.6	10889.7	11673.9	11697.4	11471.1	10879.9	9866.5	8738.9	8036.6	62.5°
65°	7993.6	8756.4	9558.2	10701.4	11460.3	11359.9	11075.0	10374.7	9143.7	8009.3	7654.2	65°
67.5°	7493.3	8224.8	8969.1	10085.0	10858.5	10760.9	10329.8	9381.7	8303.8	7363.5	7172.3	67.5°
70°	6656.3	7276.7	7930.2	8910.6	9722.1	9590.4	8836.4	8259.9	7471.8	6617.3	6551.0	70°
72.5°	5564.8	6035.0	6509.0	7238.7	7797.6	7528.4	7054.3	7024.1	6387.1	5734.6	5748.2	72.5°
75°	4352.4	4705.5	4926.9	5356.1	5727.7	5486.8	5515.1	5682.9	5473.1	4959.1	4792.3	75°
77.5°	3153.6	3492.0	3562.3	3816.9	4078.3	4352.4	4715.2	5110.3	5176.6	4887.9	4283.1	77.5°
80°	2064.0	2436.6	2298.1	2388.8	2756.6	3257.0	3919.3	4569.9	4793.3	4533.8	3789.5	80°
82.5°	1217.3	1739.2	1518.7	1673.8	1907.0	2343.0	2800.5	3291.1	3664.7	3388.6	3165.3	82.5°
85°	924.7	1371.5	1452.4	1640.7	1716.8	1735.3	1815.3	1975.2	2168.4	2240.6	2234.7	85°
87.5°	481.9	1066.1	1196.9	1107.1	1033.0	895.4	698.4	752.1	687.7	940.3	890.6	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°
1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9
1724.6	1721.6	1723.6	1724.6	1724.6	1724.6	1726.5
1764.6	1756.7	1753.8	1753.8	1752.8	1749.9	1748.9
1807.5	1793.8	1788.9	1783.1	1778.2	1775.3	1770.4
1884.5	1872.8	1848.4	1834.8	1822.1	1813.3	1805.5
1987.9	1971.3	1947.9	1930.4	1910.9	1905.0	1895.3
2147.9	2133.3	2112.8	2093.3	2081.6	2061.1	2046.5
2397.6	2368.3	2347.9	2322.5	2294.2	2252.3	2231.8
2726.3	2667.8	2626.8	2604.4	2547.8	2541.0	2491.2
3103.8	3086.3	3023.8	2996.5	2941.9	2920.4	2842.4
3668.6	3654.9	3527.2	3513.5	3429.6	3367.2	3246.2
4410.9	4298.7	4154.4	4053.9	3910.5	3749.6	3543.7
5059.6	4830.3	4609.9	4375.8	4177.8	3946.6	3713.5
5473.1	5165.9	4882.0	4642.1	4397.2	4122.2	3822.7
5836.0	5525.8	5216.6	4932.7	4636.2	4284.1	3914.4
6270.1	5961.8	5613.6	5214.6	4834.2	4403.1	3951.5
6714.9	6353.9	5918.9	5430.2	4952.3	4461.6	3944.6
7170.4	6709.0	6130.6	5573.6	5027.4	4470.4	3898.8
7540.1	6956.8	6287.6	5646.8	5043.0	4440.2	3841.2
7801.5	7115.8	6357.9	5672.1	5023.5	4392.4	3763.2
7950.7	7202.6	6375.4	5653.6	4983.5	4324.1	3678.3
8005.4	7228.9	6357.9	5615.5	4947.4	4250.9	3618.8
7999.5	7214.3	6293.5	5526.8	4850.8	4153.4	3545.7
7889.3	7078.7	6161.8	5420.5	4768.9	4108.5	3550.6
7702.0	6992.9	6122.8	5441.9	4811.8	4205.1	3704.7
7617.1	7164.5	6342.2	5656.5	5032.2	4481.1	4022.7
7569.3	7443.5	6656.3	5887.7	5293.7	4815.7	4402.1
7374.2	7523.5	6834.8	6019.4	5526.8	5151.2	4781.6
7059.2	7337.2	6699.3	5994.0	5655.5	5408.8	4918.1
6401.7	6695.3	6095.5	5620.4	5494.6	5412.7	4713.3
5186.4	5338.5	4997.1	4889.8	4936.7	4937.6	3953.4
3824.7	3733.0	3578.9	3586.7	3901.7	3852.9	2818.0
3122.4	2555.6	2337.1	2420.0	2809.2	2599.5	1770.4
2905.8	2279.6	1881.6	1901.1	2121.6	1674.8	1066.1
2349.8	2077.7	1666.0	1495.3	1451.4	1115.9	723.8
983.2	904.2	673.0	606.7	497.5	304.3	138.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)