

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: P159034

Luminaire Tested: **VTS-F08-LED-E1-SLR-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159034  
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-7030  
Description: VENTUS LED SITE LUMINAIRE  
(8) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (56) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

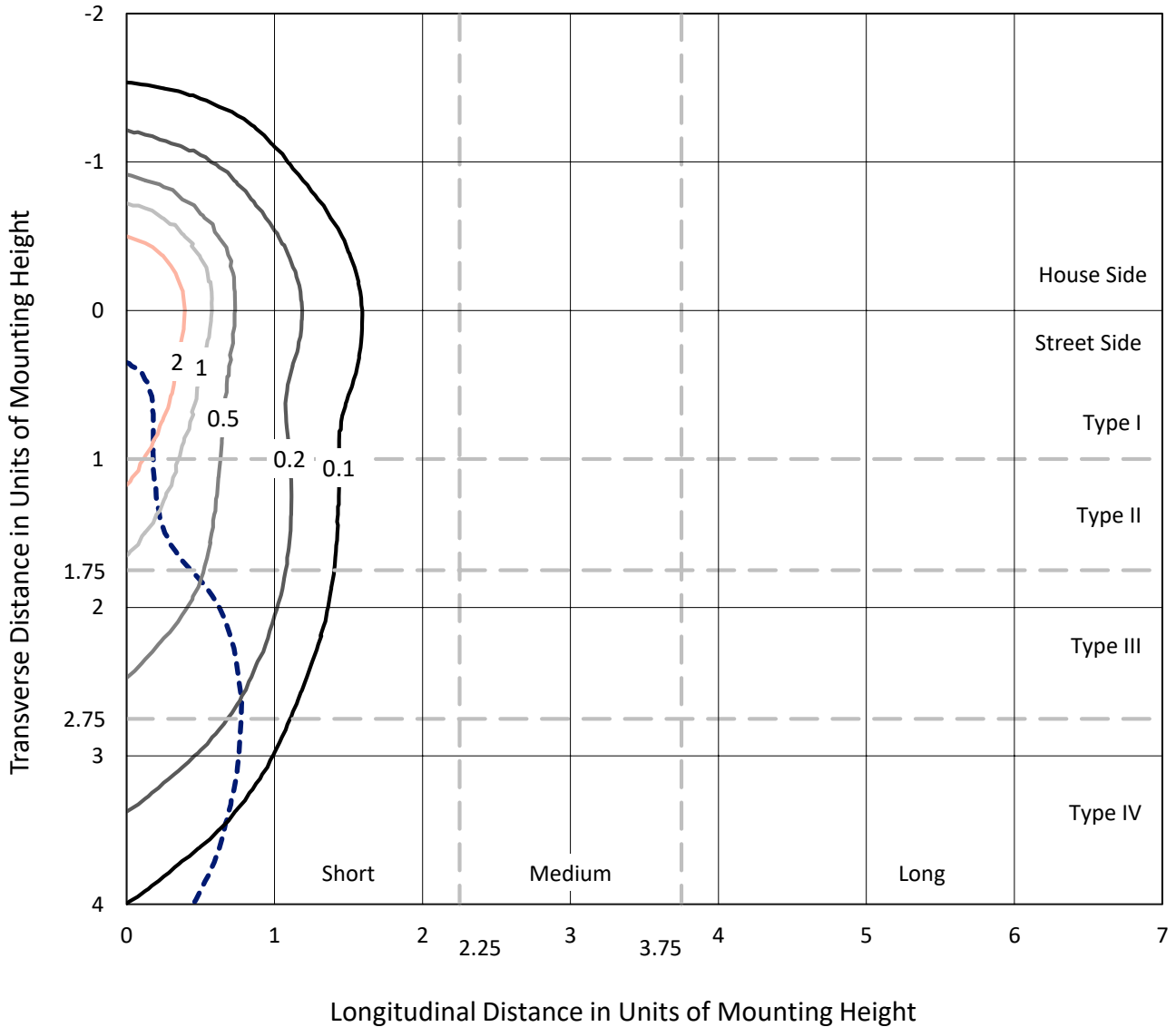
Lumens per Lamp: N/A  
Luminaire Lumens: 16209.5 lumens  
Efficiency: N/A  
Efficacy: 79.3 lumens/watt  
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 204.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

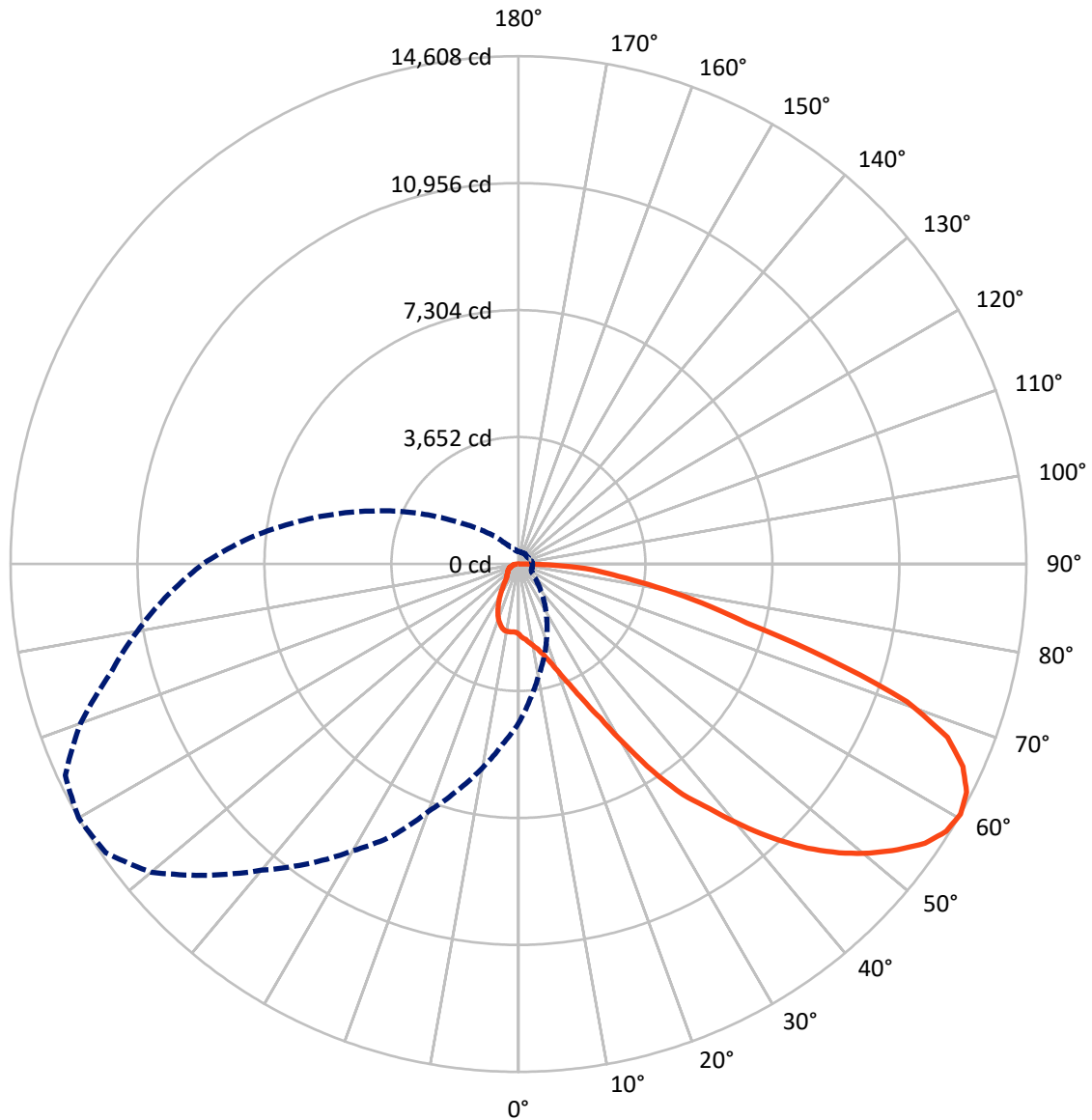
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	3649.9	0.0	3649.9
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	12559.7	0.0	12559.7
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	16209.5	0.0	16209.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.9	1.2
10°-20°	642.1	4.0
20°-30°	1218.5	7.5
30°-40°	1919.0	11.8
40°-50°	2678.4	16.5
50°-60°	3312.6	20.4
60°-70°	3433.6	21.2
70°-80°	2160.6	13.3
80°-90°	645.9	4.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16209.5	100.0
0°-180°	16209.5	100.0



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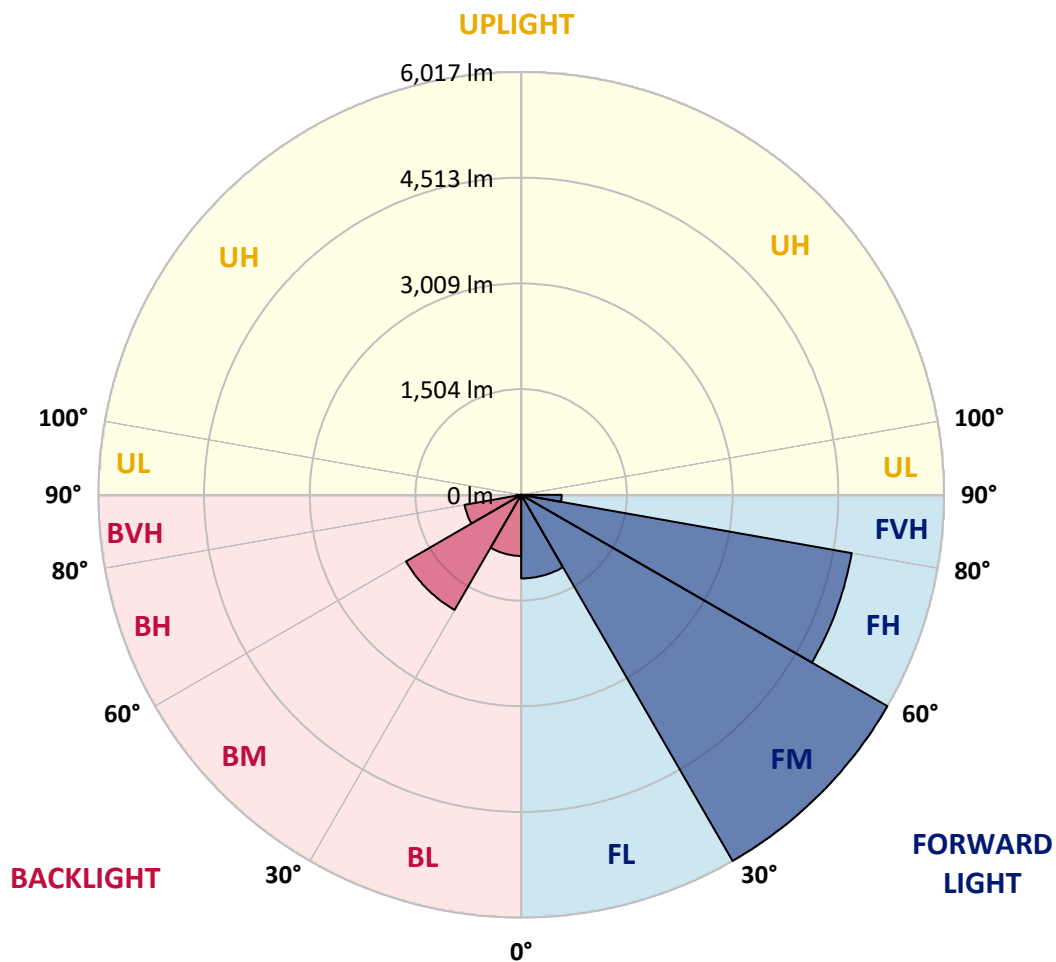
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1190.0	7.3			
FM	(30°-60°)	6017.2	37.1			
FH	(60°-80°)	4776.8	29.5			G2/5000
FVH	(80°-90°)	575.6	3.6			G4/750
BL	(0°-30°)	869.5	5.4	B2/1000		
BM	(30°-60°)	1892.7	11.7	B2/2500		
BH	(60°-80°)	817.4	5.0	B2/1000		G2/1000
BVH	(80°-90°)	70.3	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°	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9
2.5°	2135.3	2007.4	2009.8	2006.2	2006.2	2003.8	2006.2	2003.8	2001.4	2001.4	2002.6
5°	2163.1	2021.9	2021.9	2018.3	2015.9	2013.5	2015.9	2013.5	2012.3	2009.8	2011.1
7.5°	2189.6	2030.4	2025.5	2020.7	2014.7	2017.1	2017.1	2015.9	2017.1	2015.9	2018.3
10°	2233.0	2058.1	2046.0	2035.2	2034.0	2031.6	2031.6	2027.9	2027.9	2025.5	2026.7
12.5°	2344.0	2143.8	2130.5	2111.2	2107.6	2096.7	2090.7	2083.4	2071.4	2060.5	2052.1
15°	2531.0	2286.1	2260.8	2243.9	2236.6	2214.9	2181.2	2154.6	2119.6	2089.5	2058.1
17.5°	2760.2	2476.7	2446.6	2424.8	2388.7	2329.5	2272.8	2207.7	2140.1	2078.6	2021.9
20°	3081.1	2750.6	2691.5	2639.6	2549.1	2447.8	2341.6	2228.2	2124.5	2027.9	1944.7
22.5°	3515.4	3104.0	2994.3	2855.5	2687.8	2516.5	2347.6	2190.8	2052.1	1926.6	1815.6
25°	4014.9	3441.8	3244.0	3005.1	2748.2	2511.7	2289.7	2088.3	1926.6	1764.9	1644.3
27.5°	4382.8	3724.1	3432.2	3118.5	2790.4	2488.8	2216.1	1972.4	1777.0	1611.7	1465.8
30°	4592.7	3885.8	3534.7	3166.8	2797.6	2450.2	2123.2	1841.0	1615.4	1418.7	1278.8
32.5°	4727.8	3972.6	3545.6	3118.5	2710.8	2335.6	1982.1	1688.9	1444.0	1234.1	1085.8
35°	4841.2	4007.6	3494.9	3011.1	2546.7	2161.9	1801.1	1508.0	1248.6	1055.6	903.6
37.5°	4887.1	4001.6	3414.1	2867.6	2386.2	1972.4	1616.6	1316.2	1084.5	914.4	784.2
40°	4878.6	3946.1	3304.3	2714.4	2198.0	1774.6	1421.1	1156.9	968.7	825.2	729.9
42.5°	4821.9	3872.5	3182.5	2558.8	2025.5	1610.5	1288.4	1054.4	902.4	793.8	710.6
45°	4750.8	3784.4	3071.5	2416.4	1889.2	1493.5	1211.2	1025.4	893.9	790.2	700.9
47.5°	4654.3	3686.7	2959.3	2315.1	1816.8	1458.5	1210.0	1042.3	901.2	781.7	684.0
50°	4549.3	3615.5	2897.7	2271.6	1808.4	1480.2	1252.2	1068.9	906.0	773.3	661.1
52.5°	4475.7	3584.2	2896.5	2287.3	1853.0	1540.6	1301.7	1102.6	924.1	778.1	656.3
55°	4385.2	3579.4	2927.9	2354.9	1950.7	1643.1	1380.1	1160.5	961.5	796.2	659.9
57.5°	4391.3	3674.7	3049.8	2521.4	2126.9	1781.8	1480.2	1231.7	997.7	807.1	653.9
60°	4581.9	3896.6	3289.8	2806.1	2357.3	1944.7	1582.8	1270.3	995.3	782.9	624.9
62.5°	4975.2	4229.6	3649.3	3140.2	2591.3	2070.2	1620.2	1259.5	959.1	731.1	577.9
65°	5444.4	4619.3	3999.2	3399.6	2733.7	2099.1	1587.6	1199.2	886.7	663.5	521.2
67.5°	5913.7	4895.5	4200.6	3473.2	2675.8	1982.1	1467.0	1064.0	763.6	571.8	457.2
70°	6082.6	4952.2	4185.0	3307.9	2412.8	1691.4	1207.6	856.5	612.8	468.1	384.8
72.5°	5829.3	4597.6	3720.5	2810.9	1961.6	1311.3	885.5	632.1	468.1	366.7	313.7
75°	4889.5	3702.4	2941.2	2117.2	1416.3	927.7	639.4	460.8	352.3	290.7	250.9
77.5°	3485.3	2578.1	2003.8	1391.0	919.3	643.0	458.4	346.2	279.9	232.8	203.9
80°	2189.6	1582.8	1220.9	834.8	573.0	436.7	329.3	273.9	225.6	189.4	170.1
82.5°	1318.6	921.7	719.0	518.7	376.4	299.2	242.5	214.7	179.8	156.8	146.0
85°	895.1	678.0	471.7	306.4	226.8	176.1	165.3	148.4	133.9	112.2	108.6
87.5°	171.3	242.5	211.1	125.5	83.2	71.2	62.7	60.3	54.3	43.4	49.5
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9
2.5°	1995.4	1993.0	1988.1	1988.1	1984.5	1977.3	1976.1	1971.2	1965.2	1966.4	1965.2
5°	2002.6	1997.8	1991.7	1989.3	1984.5	1977.3	1973.7	1967.6	1961.6	1961.6	1961.6
7.5°	2011.1	2005.0	2000.2	1991.7	1982.1	1974.9	1965.2	1958.0	1954.4	1953.1	1954.4
10°	2018.3	2014.7	2007.4	1995.4	1982.1	1967.6	1958.0	1948.3	1938.7	1939.9	1941.1
12.5°	2034.0	2021.9	2002.6	1984.5	1964.0	1945.9	1929.0	1917.0	1904.9	1904.9	1906.1
15°	2023.1	1988.1	1961.6	1926.6	1903.7	1874.7	1855.4	1844.6	1837.3	1834.9	1836.1
17.5°	1959.2	1917.0	1877.1	1845.8	1814.4	1791.5	1783.0	1775.8	1766.2	1771.0	1766.2
20°	1862.7	1810.8	1754.1	1716.7	1679.3	1663.6	1649.1	1641.9	1635.9	1657.6	1657.6
22.5°	1723.9	1661.2	1603.3	1557.4	1515.2	1498.3	1483.9	1475.4	1479.0	1505.6	1508.0
25°	1549.0	1473.0	1397.0	1369.3	1327.0	1313.8	1305.3	1304.1	1307.7	1334.3	1340.3
27.5°	1363.2	1283.6	1218.5	1154.5	1135.2	1124.4	1108.7	1126.8	1130.4	1159.3	1171.4
30°	1165.4	1079.7	1011.0	968.7	927.7	933.7	920.5	942.2	951.8	982.0	991.7
32.5°	962.7	881.9	813.1	770.9	741.9	745.5	735.9	755.2	764.9	801.0	819.1
35°	796.2	727.5	672.0	635.8	622.5	609.2	606.8	609.2	618.9	646.6	679.2
37.5°	700.9	644.2	604.4	577.9	559.8	551.3	546.5	546.5	546.5	552.5	568.2
40°	659.9	609.2	574.2	548.9	536.8	532.0	528.4	524.8	518.7	516.3	517.5
42.5°	641.8	583.9	546.5	527.2	520.0	520.0	520.0	517.5	511.5	505.5	499.4
45°	623.7	561.0	523.6	510.3	506.7	507.9	507.9	507.9	503.1	495.8	485.0
47.5°	600.8	535.6	498.2	489.8	489.8	493.4	494.6	494.6	489.8	482.6	474.1
50°	573.0	503.1	469.3	462.0	458.4	458.4	458.4	458.4	454.8	450.0	444.0
52.5°	558.6	485.0	450.0	442.7	442.7	439.1	437.9	434.3	430.7	427.1	418.6
55°	553.7	477.7	441.5	435.5	435.5	431.9	428.3	424.6	418.6	412.6	404.1
57.5°	540.5	462.0	430.7	425.9	425.9	423.4	419.8	416.2	410.2	401.7	390.9
60°	510.3	435.5	409.0	407.8	407.8	406.6	404.1	404.1	398.1	389.7	376.4
62.5°	471.7	407.8	382.4	382.4	381.2	380.0	375.2	374.0	366.7	355.9	343.8
65°	434.3	383.6	366.7	361.9	359.5	355.9	353.5	347.4	341.4	331.8	319.7
67.5°	387.3	347.4	336.6	331.8	326.9	323.3	319.7	316.1	308.8	301.6	291.9
70°	336.6	307.6	301.6	300.4	294.4	290.7	289.5	285.9	278.7	271.4	259.4
72.5°	288.3	271.4	266.6	266.6	259.4	254.5	252.1	250.9	246.1	240.1	229.2
75°	232.8	220.8	219.6	225.6	225.6	222.0	219.6	222.0	214.7	211.1	200.3
77.5°	190.6	184.6	181.0	183.4	190.6	187.0	182.2	182.2	182.2	176.1	172.5
80°	161.7	156.8	153.2	155.6	154.4	153.2	150.8	146.0	146.0	146.0	144.8
82.5°	146.0	144.8	131.5	131.5	126.7	123.1	120.6	118.2	115.8	115.8	121.8
85°	109.8	113.4	106.2	105.0	98.9	94.1	89.3	86.9	84.4	88.1	100.1
87.5°	53.1	53.1	50.7	56.7	51.9	49.5	45.8	43.4	45.8	56.7	67.6
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°	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9
2.5°	1962.8	1961.6	1960.4	1958.0	1953.1	1951.9	1949.5	1949.5	1948.3	1945.9	1948.3
5°	1959.2	1961.6	1961.6	1960.4	1956.8	1959.2	1959.2	1962.8	1962.8	1965.2	1971.2
7.5°	1954.4	1960.4	1965.2	1968.8	1973.7	1977.3	1984.5	1995.4	2000.2	2008.6	2012.3
10°	1944.7	1955.6	1964.0	1974.9	1986.9	2000.2	2011.1	2027.9	2034.0	2046.0	2052.1
12.5°	1917.0	1935.0	1949.5	1971.2	1991.7	2012.3	2031.6	2053.3	2064.1	2077.4	2085.8
15°	1849.4	1869.9	1890.4	1909.7	1945.9	1985.7	2017.1	2046.0	2061.7	2078.6	2087.1
17.5°	1768.6	1781.8	1798.7	1824.1	1859.0	1894.0	1944.7	1985.7	2009.8	2029.1	2031.6
20°	1674.5	1693.8	1705.8	1715.5	1743.2	1767.4	1821.6	1868.7	1900.1	1923.0	1929.0
22.5°	1530.9	1551.4	1571.9	1579.2	1600.9	1632.2	1662.4	1713.1	1757.7	1791.5	1812.0
25°	1366.8	1386.1	1413.9	1435.6	1440.4	1465.8	1495.9	1553.8	1599.7	1654.0	1678.1
27.5°	1202.8	1219.7	1249.8	1261.9	1276.4	1301.7	1325.8	1374.1	1422.3	1485.1	1511.6
30°	1011.0	1047.1	1082.1	1105.1	1117.1	1147.3	1164.2	1211.2	1255.9	1301.7	1340.3
32.5°	846.9	879.5	919.3	948.2	962.7	985.6	1012.2	1052.0	1087.0	1131.6	1176.2
35°	696.1	740.7	767.3	792.6	830.0	840.9	867.4	903.6	924.1	972.3	1023.0
37.5°	589.9	616.5	643.0	668.3	699.7	714.2	739.5	769.7	793.8	822.8	868.6
40°	524.8	539.3	558.6	575.4	598.4	616.5	629.7	655.1	673.2	702.1	734.7
42.5°	494.6	498.2	500.7	512.7	524.8	536.8	551.3	562.2	583.9	605.6	626.1
45°	477.7	470.5	466.9	468.1	472.9	480.1	492.2	504.3	518.7	532.0	544.1
47.5°	463.3	453.6	442.7	436.7	437.9	440.3	450.0	459.6	466.9	477.7	482.6
50°	429.5	421.0	411.4	402.9	404.1	405.3	413.8	421.0	425.9	429.5	435.5
52.5°	407.8	395.7	387.3	378.8	377.6	381.2	388.5	395.7	398.1	400.5	401.7
55°	392.1	380.0	369.2	360.7	357.1	365.5	367.9	377.6	381.2	381.2	382.4
57.5°	380.0	365.5	354.7	346.2	340.2	346.2	352.3	363.1	364.3	361.9	361.9
60°	361.9	351.1	340.2	331.8	325.7	330.6	335.4	347.4	347.4	341.4	340.2
62.5°	330.6	324.5	317.3	313.7	312.5	317.3	320.9	330.6	326.9	319.7	317.3
65°	307.6	302.8	295.6	293.2	291.9	299.2	300.4	306.4	301.6	298.0	296.8
67.5°	279.9	276.3	272.6	271.4	267.8	267.8	270.2	273.9	271.4	271.4	272.6
70°	248.5	243.7	240.1	241.3	238.9	238.9	240.1	242.5	241.3	243.7	246.1
72.5°	219.6	213.5	212.3	212.3	209.9	211.1	211.1	212.3	214.7	215.9	222.0
75°	191.8	185.8	185.8	184.6	184.6	184.6	185.8	188.2	190.6	191.8	194.2
77.5°	166.5	162.9	164.1	162.9	162.9	162.9	162.9	166.5	167.7	168.9	172.5
80°	143.6	143.6	144.8	144.8	143.6	142.4	143.6	146.0	147.2	148.4	149.6
82.5°	130.3	131.5	131.5	131.5	125.5	123.1	126.7	129.1	131.5	132.7	135.1
85°	112.2	107.4	112.2	111.0	102.5	101.3	101.3	102.5	105.0	102.5	102.5
87.5°	72.4	65.1	68.8	68.8	60.3	49.5	62.7	67.6	60.3	63.9	63.9
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°	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9
2.5°	1951.9	1949.5	1950.7	1950.7	1953.1	1949.5	1954.4	1959.2	1960.4	1960.4	1961.6
5°	1977.3	1974.9	1983.3	1979.7	1988.1	1986.9	1993.0	1997.8	2000.2	2000.2	2000.2
7.5°	2017.1	2025.5	2030.4	2043.6	2044.8	2052.1	2058.1	2064.1	2061.7	2062.9	2061.7
10°	2061.7	2072.6	2084.6	2097.9	2099.1	2107.6	2117.2	2123.2	2120.8	2119.6	2116.0
12.5°	2100.3	2107.6	2122.0	2135.3	2142.5	2155.8	2165.5	2170.3	2170.3	2166.7	2163.1
15°	2097.9	2108.8	2124.5	2143.8	2157.0	2176.3	2193.2	2204.1	2205.3	2201.7	2200.5
17.5°	2044.8	2060.5	2075.0	2101.5	2125.7	2152.2	2179.9	2195.6	2210.1	2218.6	2223.4
20°	1949.5	1968.8	1989.3	2024.3	2056.9	2091.9	2124.5	2147.4	2169.1	2194.4	2224.6
22.5°	1837.3	1866.3	1895.2	1939.9	1979.7	2019.5	2056.9	2084.6	2118.4	2161.9	2218.6
25°	1705.8	1736.0	1772.2	1824.1	1874.7	1932.6	1988.1	2043.6	2108.8	2183.6	2271.6
27.5°	1550.2	1584.0	1631.0	1693.8	1751.7	1810.8	1897.7	1985.7	2091.9	2188.4	2288.5
30°	1395.8	1439.2	1489.9	1552.6	1610.5	1695.0	1781.8	1890.4	2002.6	2111.2	2230.6
32.5°	1229.3	1283.6	1346.3	1398.2	1463.4	1549.0	1635.9	1751.7	1871.1	1999.0	2130.5
35°	1068.9	1120.7	1170.2	1228.1	1293.2	1374.1	1458.5	1569.5	1720.3	1856.6	2013.5
37.5°	906.0	954.3	989.2	1035.1	1091.8	1181.1	1271.5	1399.4	1541.8	1709.5	1866.3
40°	763.6	803.5	843.3	879.5	927.7	1012.2	1108.7	1234.1	1374.1	1536.9	1711.9
42.5°	650.2	680.4	723.8	767.3	808.3	880.7	971.1	1094.2	1232.9	1399.4	1574.3
45°	554.9	575.4	610.4	646.6	697.3	757.6	844.5	969.9	1111.1	1278.8	1463.4
47.5°	486.2	495.8	520.0	557.4	604.4	663.5	738.3	851.7	989.2	1158.1	1352.4
50°	439.1	450.0	462.0	493.4	535.6	596.0	657.5	756.4	881.9	1047.1	1240.2
52.5°	406.6	411.4	416.2	435.5	474.1	524.8	589.9	664.7	791.4	949.4	1123.1
55°	387.3	388.5	392.1	401.7	430.7	477.7	534.4	605.6	704.5	854.1	1031.5
57.5°	364.3	366.7	370.4	376.4	394.5	436.7	485.0	542.9	624.9	750.4	920.5
60°	342.6	348.6	354.7	358.3	367.9	393.3	434.3	480.1	546.5	640.6	775.7
62.5°	319.7	326.9	331.8	335.4	339.0	354.7	384.8	415.0	456.0	517.5	618.9
65°	299.2	304.0	307.6	310.0	312.5	317.3	330.6	342.6	354.7	392.1	465.7
67.5°	276.3	278.7	279.9	281.1	279.9	279.9	281.1	285.9	290.7	305.2	340.2
70°	249.7	253.3	253.3	254.5	254.5	250.9	250.9	250.9	250.9	254.5	273.9
72.5°	224.4	229.2	229.2	230.4	229.2	228.0	228.0	228.0	231.6	234.0	241.3
75°	200.3	205.1	203.9	205.1	206.3	206.3	208.7	209.9	213.5	214.7	219.6
77.5°	176.1	179.8	181.0	179.8	182.2	184.6	189.4	191.8	193.0	194.2	195.4
80°	153.2	155.6	154.4	150.8	156.8	160.4	167.7	176.1	173.7	174.9	177.3
82.5°	126.7	123.1	120.6	123.1	126.7	131.5	138.7	149.6	150.8	156.8	155.6
85°	97.7	86.9	85.7	91.7	90.5	96.5	108.6	117.0	124.3	130.3	124.3
87.5°	57.9	51.9	43.4	41.0	44.6	59.1	61.5	74.8	80.8	83.2	74.8
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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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9
2.5°	2071.4	2077.4	2077.4	2079.8	2083.4	2084.6	2089.5	2097.9	2099.1	2099.1	2102.7
5°	2110.0	2116.0	2116.0	2120.8	2122.0	2128.1	2134.1	2143.8	2148.6	2147.4	2163.1
7.5°	2172.7	2167.9	2164.3	2171.5	2175.1	2182.4	2194.4	2202.9	2211.3	2224.6	2246.3
10°	2225.8	2218.6	2214.9	2219.8	2222.2	2230.6	2237.9	2249.9	2270.4	2290.9	2317.5
12.5°	2269.2	2260.8	2251.1	2253.5	2257.2	2268.0	2280.1	2295.8	2325.9	2352.5	2392.3
15°	2305.4	2293.3	2283.7	2288.5	2297.0	2311.4	2332.0	2359.7	2409.2	2455.0	2508.1
17.5°	2340.4	2338.0	2334.4	2350.0	2356.1	2389.9	2420.0	2470.7	2538.2	2607.0	2683.0
20°	2374.2	2400.7	2414.0	2445.4	2464.7	2510.5	2556.3	2617.9	2703.5	2797.6	2901.4
22.5°	2421.2	2493.6	2538.2	2602.2	2634.8	2684.2	2751.8	2832.6	2927.9	3048.5	3181.2
25°	2533.4	2639.6	2728.9	2829.0	2911.0	2987.0	3067.8	3165.6	3303.1	3412.9	3586.6
27.5°	2582.9	2732.5	2866.4	3007.5	3130.6	3247.6	3375.5	3493.7	3656.6	3805.0	4014.9
30°	2535.8	2704.7	2878.4	3063.0	3242.8	3420.1	3605.9	3786.9	3975.1	4182.6	4405.7
32.5°	2449.0	2638.4	2833.8	3051.0	3274.1	3504.6	3745.8	4008.8	4274.2	4532.4	4760.4
35°	2360.9	2564.8	2781.9	3030.5	3293.4	3579.4	3878.5	4211.5	4562.6	4889.5	5187.5
37.5°	2233.0	2457.4	2705.9	2993.1	3305.5	3657.8	4042.6	4452.8	4896.7	5346.7	5737.6
40°	2078.6	2316.3	2587.7	2918.3	3293.4	3738.6	4239.3	4765.2	5335.9	5884.8	6364.9
42.5°	1937.5	2169.1	2458.6	2818.1	3262.1	3809.8	4426.2	5081.3	5756.9	6370.9	6998.3
45°	1813.2	2069.0	2359.7	2748.2	3246.4	3870.1	4565.0	5317.8	6091.1	6822.1	7562.9
47.5°	1699.8	1965.2	2290.9	2709.6	3239.2	3906.3	4661.5	5472.2	6328.7	7168.4	8028.5
50°	1582.8	1841.0	2189.6	2667.3	3221.1	3905.1	4712.2	5577.1	6495.2	7437.4	8349.4
52.5°	1457.3	1716.7	2066.5	2590.1	3182.5	3883.4	4725.4	5648.3	6626.7	7602.7	8622.1
55°	1342.7	1585.2	1935.0	2461.0	3101.6	3830.3	4695.3	5678.5	6719.6	7766.7	8813.9
57.5°	1211.2	1463.4	1796.3	2283.7	2949.6	3736.2	4609.6	5636.3	6746.1	7876.5	8965.9
60°	1030.3	1277.6	1620.2	2073.8	2712.0	3537.1	4450.4	5508.4	6661.7	7895.8	9074.5
62.5°	822.8	1036.3	1366.8	1784.3	2377.8	3224.7	4156.0	5221.3	6398.7	7714.9	9019.0
65°	611.6	754.0	1038.7	1405.4	1990.5	2754.2	3681.9	4739.9	5884.8	7211.8	8670.3
67.5°	425.9	528.4	703.3	976.0	1447.7	2126.9	3005.1	3988.3	5089.8	6280.5	7946.5
70°	322.1	369.2	464.5	616.5	937.4	1448.9	2184.8	3060.6	4082.4	5229.7	6799.2
72.5°	275.1	299.2	352.3	422.2	574.2	880.7	1371.7	2106.4	3012.4	3946.1	5216.4
75°	247.3	267.8	301.6	346.2	406.6	534.4	804.7	1333.1	1995.4	2643.2	3639.7
77.5°	224.4	242.5	272.6	295.6	328.1	384.8	512.7	797.4	1195.5	1633.5	2258.4
80°	200.3	211.1	238.9	261.8	287.1	319.7	367.9	500.7	686.4	967.5	1331.9
82.5°	171.3	179.8	200.3	231.6	250.9	264.2	278.7	331.8	411.4	524.8	739.5
85°	132.7	138.7	156.8	179.8	188.2	189.4	191.8	206.3	255.8	393.3	637.0
87.5°	67.6	74.8	94.1	101.3	85.7	92.9	94.1	100.1	132.7	215.9	219.6
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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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	0°
2.5°	2102.7	2106.4	2114.8	2113.6	2119.6	2119.6	2119.6	2125.7	2122.0	2125.7	2131.7	2.5°
5°	2163.1	2169.1	2181.2	2181.2	2182.4	2186.0	2186.0	2190.8	2184.8	2182.4	2183.6	5°
7.5°	2251.1	2260.8	2270.4	2280.1	2287.3	2283.7	2284.9	2274.0	2271.6	2263.2	2252.3	7.5°
10°	2336.8	2363.3	2381.4	2398.3	2399.5	2395.9	2397.1	2379.0	2375.4	2358.5	2347.6	10°
12.5°	2424.8	2458.6	2487.6	2505.7	2516.5	2518.9	2520.1	2520.1	2503.3	2488.8	2463.4	12.5°
15°	2555.1	2614.2	2658.9	2678.2	2693.9	2708.3	2712.0	2716.8	2703.5	2684.2	2680.6	15°
17.5°	2761.4	2816.9	2876.0	2927.9	2962.9	2965.3	2995.5	2993.1	3020.8	2999.1	2993.1	17.5°
20°	3006.3	3127.0	3188.5	3257.3	3297.1	3316.4	3386.3	3364.6	3385.1	3420.1	3385.1	20°
22.5°	3312.7	3466.0	3555.2	3649.3	3714.5	3761.5	3812.2	3852.0	3907.5	3934.0	3909.9	22.5°
25°	3719.3	3894.2	4000.4	4130.7	4234.4	4318.9	4406.9	4513.1	4511.9	4575.8	4620.5	25°
27.5°	4186.2	4409.4	4563.8	4793.0	4882.3	5024.6	5175.4	5339.5	5368.4	5451.7	5493.9	27.5°
30°	4625.3	4901.6	5208.0	5480.6	5789.5	6000.6	6175.5	6291.3	6466.2	6422.8	6398.7	30°
32.5°	5030.6	5398.6	5835.3	6282.9	6772.7	7106.8	7415.7	7559.2	7667.8	7437.4	7132.2	32.5°
35°	5556.6	5997.0	6496.4	7048.9	7671.4	8145.5	8464.0	8508.7	8447.1	8151.6	7646.1	35°
37.5°	6208.1	6670.1	7238.3	7822.2	8483.3	8928.5	9291.6	9356.8	9193.9	8666.7	8135.9	37.5°
40°	6851.1	7392.8	8009.2	8700.5	9385.7	9875.5	10239.8	10259.1	9993.7	9377.3	8756.0	40°
42.5°	7554.4	8146.7	8833.2	9599.2	10307.4	10803.2	11066.2	11149.5	10774.3	9984.1	9388.1	42.5°
45°	8161.2	8869.4	9634.2	10448.5	11189.3	11659.8	11927.6	11901.0	11447.4	10666.9	9968.4	45°
47.5°	8752.4	9531.7	10337.6	11202.5	11938.4	12413.7	12688.8	12664.7	12089.2	11190.5	10422.0	47.5°
50°	9278.3	10124.0	10985.4	11909.5	12643.0	13078.5	13415.1	13308.9	12581.4	11611.5	10713.9	50°
52.5°	9643.9	10587.3	11487.2	12486.1	13241.3	13653.9	14082.2	13740.8	12872.2	11869.7	10870.8	52.5°
55°	9875.5	10905.8	11844.3	12949.4	13691.3	14184.7	14461.0	13976.0	12984.4	11940.8	10925.1	55°
57.5°	10032.3	11080.7	12054.2	13217.2	14096.7	14510.5	14578.0	13984.5	12912.0	11828.6	10870.8	57.5°
60°	10109.5	11132.6	12149.5	13405.4	14381.4	14608.2	14485.1	13789.0	12662.3	11499.3	10520.9	60°
62.5°	10101.1	11067.4	12100.1	13468.1	14438.1	14467.0	14187.1	13456.1	12202.6	10808.0	9939.4	62.5°
65°	9886.4	10829.8	11821.4	13235.3	14173.9	14049.6	13697.3	12831.2	11308.7	9905.7	9466.5	65°
67.5°	9267.5	10172.3	11092.8	12472.9	13429.5	13308.9	12775.7	11603.1	10270.0	9107.0	8870.6	67.5°
70°	8232.4	8999.7	9807.9	11020.4	12024.1	11861.2	10928.7	10215.7	9240.9	8184.1	8102.1	70°
72.5°	6882.5	7463.9	8050.2	8952.6	9643.9	9310.9	8724.6	8687.2	7899.4	7092.4	7109.3	72.5°
75°	5382.9	5819.6	6093.5	6624.3	7083.9	6785.9	6820.9	7028.4	6769.1	6133.3	5927.0	75°
77.5°	3900.3	4318.9	4405.7	4720.6	5043.9	5382.9	5831.7	6320.3	6402.3	6045.2	5297.3	77.5°
80°	2552.7	3013.6	2842.3	2954.4	3409.3	4028.1	4847.3	5651.9	5928.2	5607.3	4686.8	80°
82.5°	1505.6	2151.0	1878.3	2070.2	2358.5	2897.7	3463.5	4070.4	4532.4	4191.0	3914.7	82.5°
85°	1143.7	1696.2	1796.3	2029.1	2123.2	2146.2	2245.1	2442.9	2681.8	2771.1	2763.8	85°
87.5°	596.0	1318.6	1480.2	1369.3	1277.6	1107.5	863.8	930.1	850.5	1163.0	1101.4	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°
2015.9	2015.9	2015.9	2015.9	2015.9	2015.9	2015.9
2132.9	2129.3	2131.7	2132.9	2132.9	2132.9	2135.3
2182.4	2172.7	2169.1	2169.1	2167.9	2164.3	2163.1
2235.4	2218.6	2212.5	2205.3	2199.2	2195.6	2189.6
2330.7	2316.3	2286.1	2269.2	2253.5	2242.7	2233.0
2458.6	2438.1	2409.2	2387.4	2363.3	2356.1	2344.0
2656.5	2638.4	2613.0	2588.9	2574.4	2549.1	2531.0
2965.3	2929.1	2903.8	2872.4	2837.4	2785.6	2760.2
3371.9	3299.5	3248.8	3221.1	3151.1	3142.6	3081.1
3838.7	3817.0	3739.8	3706.0	3638.5	3611.9	3515.4
4537.2	4520.3	4362.3	4345.4	4241.7	4164.5	4014.9
5455.3	5316.6	5138.0	5013.8	4836.4	4637.4	4382.8
6257.5	5974.0	5701.4	5411.9	5167.0	4881.1	4592.7
6769.1	6389.0	6038.0	5741.2	5438.4	5098.2	4727.8
7217.8	6834.2	6451.8	6100.7	5734.0	5298.5	4841.2
7754.7	7373.5	6942.8	6449.4	5978.9	5445.6	4887.1
8304.8	7858.4	7320.4	6716.0	6124.8	5518.0	4878.6
8868.2	8297.5	7582.2	6893.3	6217.7	5528.9	4821.9
9325.4	8604.0	7776.4	6983.8	6237.0	5491.5	4750.8
9648.7	8800.6	7863.2	7015.2	6212.9	5432.4	4654.3
9833.3	8908.0	7885.0	6992.2	6163.4	5347.9	4549.3
9900.8	8940.6	7863.2	6945.2	6118.8	5257.4	4475.7
9893.6	8922.5	7783.6	6835.4	5999.4	5136.8	4385.2
9757.3	8754.8	7620.8	6703.9	5898.0	5081.3	4391.3
9525.7	8648.6	7572.5	6730.4	5951.1	5200.7	4581.9
9420.7	8860.9	7843.9	6995.9	6223.8	5542.2	4975.2
9361.6	9206.0	8232.4	7281.8	6547.1	5955.9	5444.4
9120.3	9304.9	8453.2	7444.6	6835.4	6370.9	5913.7
8730.6	9074.5	8285.5	7413.3	6994.6	6689.4	6082.6
7917.5	8280.7	7538.7	6951.2	6795.6	6694.3	5829.3
6414.4	6602.6	6180.3	6047.6	6105.5	6106.7	4889.5
4730.3	4616.9	4426.2	4435.9	4825.6	4765.2	3485.3
3861.7	3160.7	2890.5	2993.1	3474.4	3215.0	2189.6
3593.8	2819.3	2327.1	2351.3	2623.9	2071.4	1318.6
2906.2	2569.6	2060.5	1849.4	1795.1	1380.1	895.1
1216.0	1118.3	832.4	750.4	615.3	376.4	171.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)