

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: LUMARK

Report Number: P146071

Luminaire Tested: **LDRL-SLR-E06-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146071
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33704)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-SLR-E06-E-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (126) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16582.5 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 150.5
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

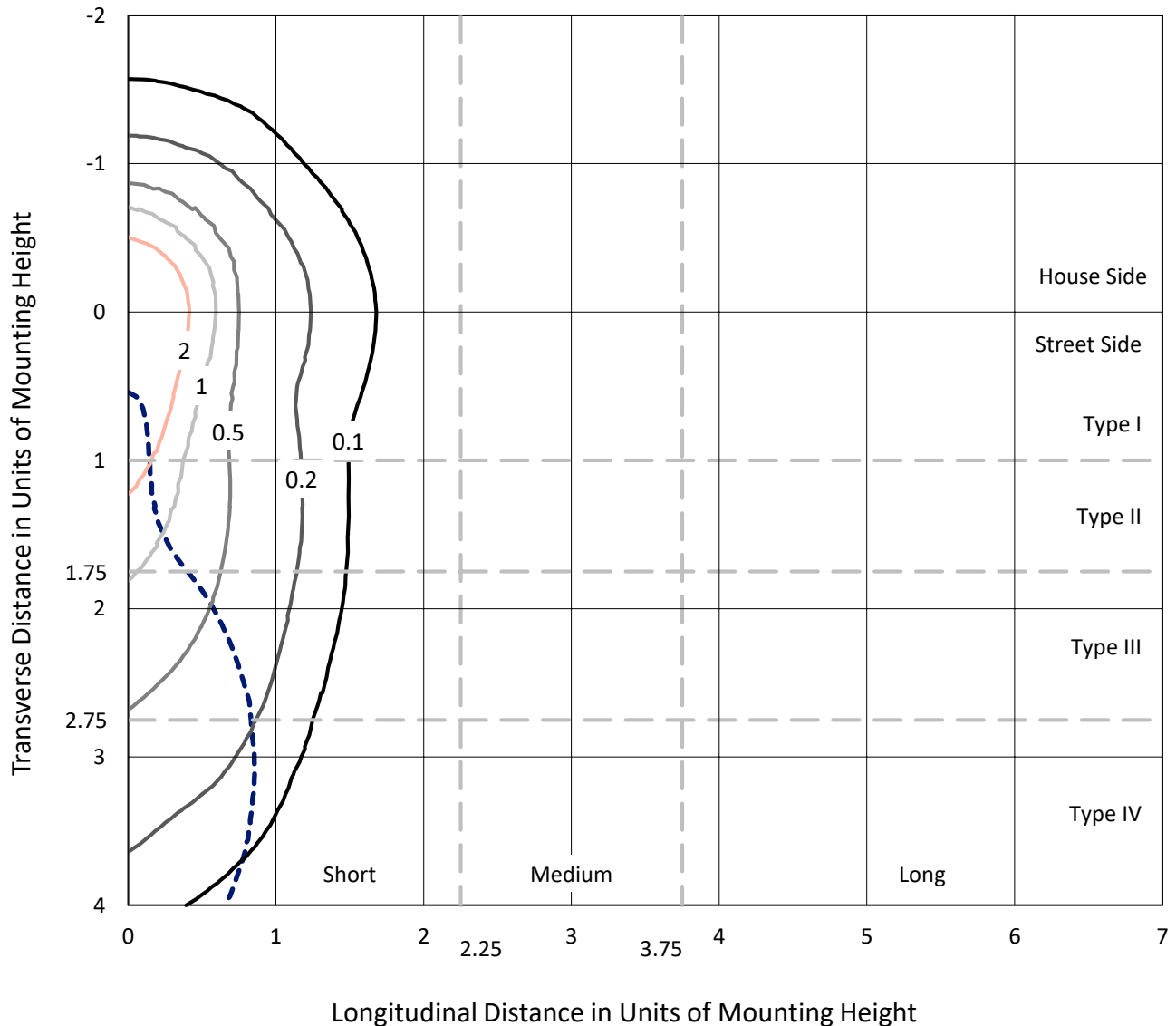


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Iso-Footcandle Lines of Horizontal Illumination

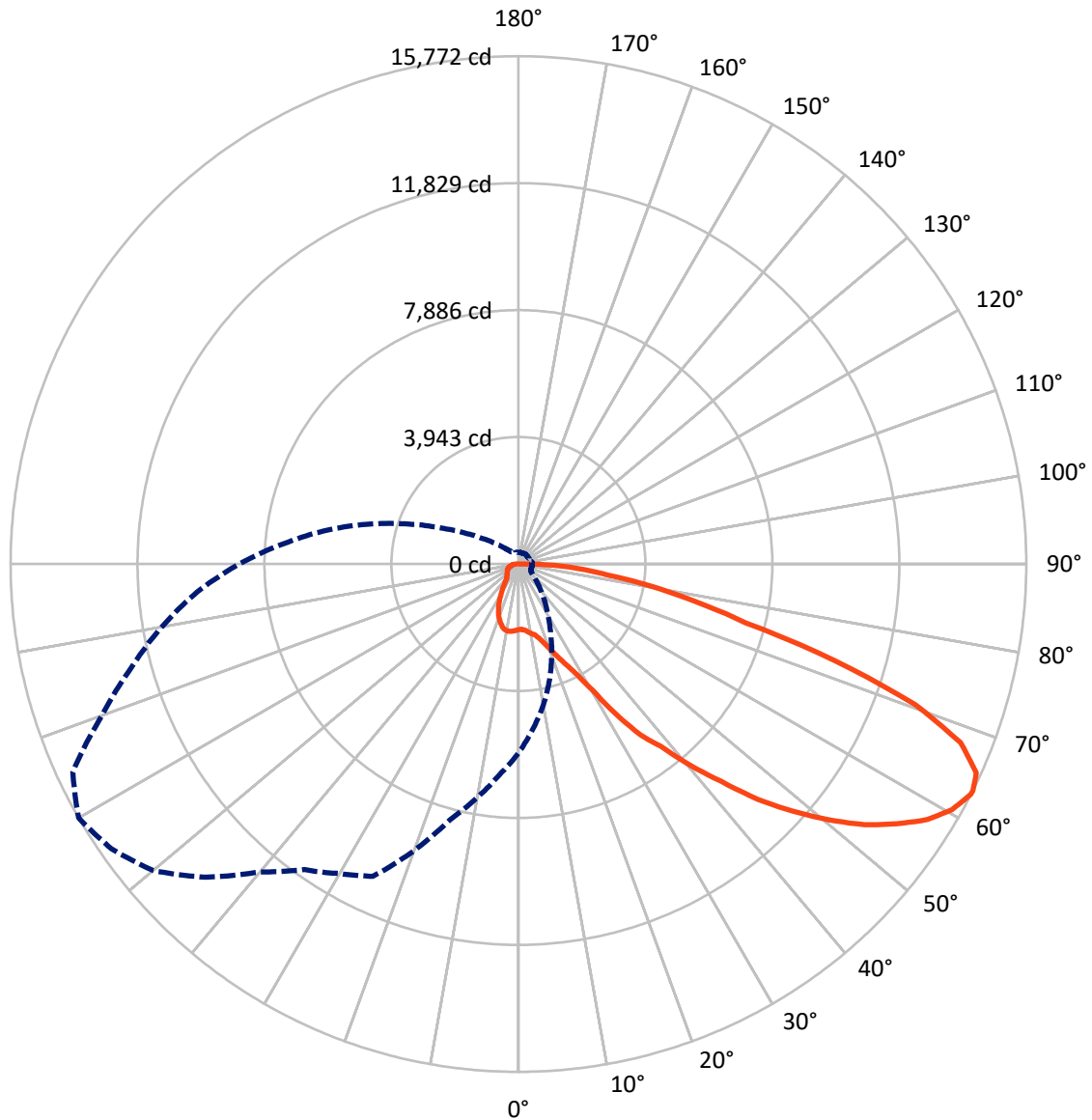
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3471.2	0.0	3471.2
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	13111.3	0.0	13111.3
	% Fixture	79.1	0.0	79.1
Total	Lumens	16582.5	0.0	16582.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.0	1.2
10°-20°	624.3	3.8
20°-30°	1104.0	6.7
30°-40°	1742.9	10.5
40°-50°	2562.9	15.5
50°-60°	3376.0	20.4
60°-70°	3762.9	22.7
70°-80°	2472.3	14.9
80°-90°	737.3	4.4
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°	16582.5	100.0
0°-180°	16582.5	100.0



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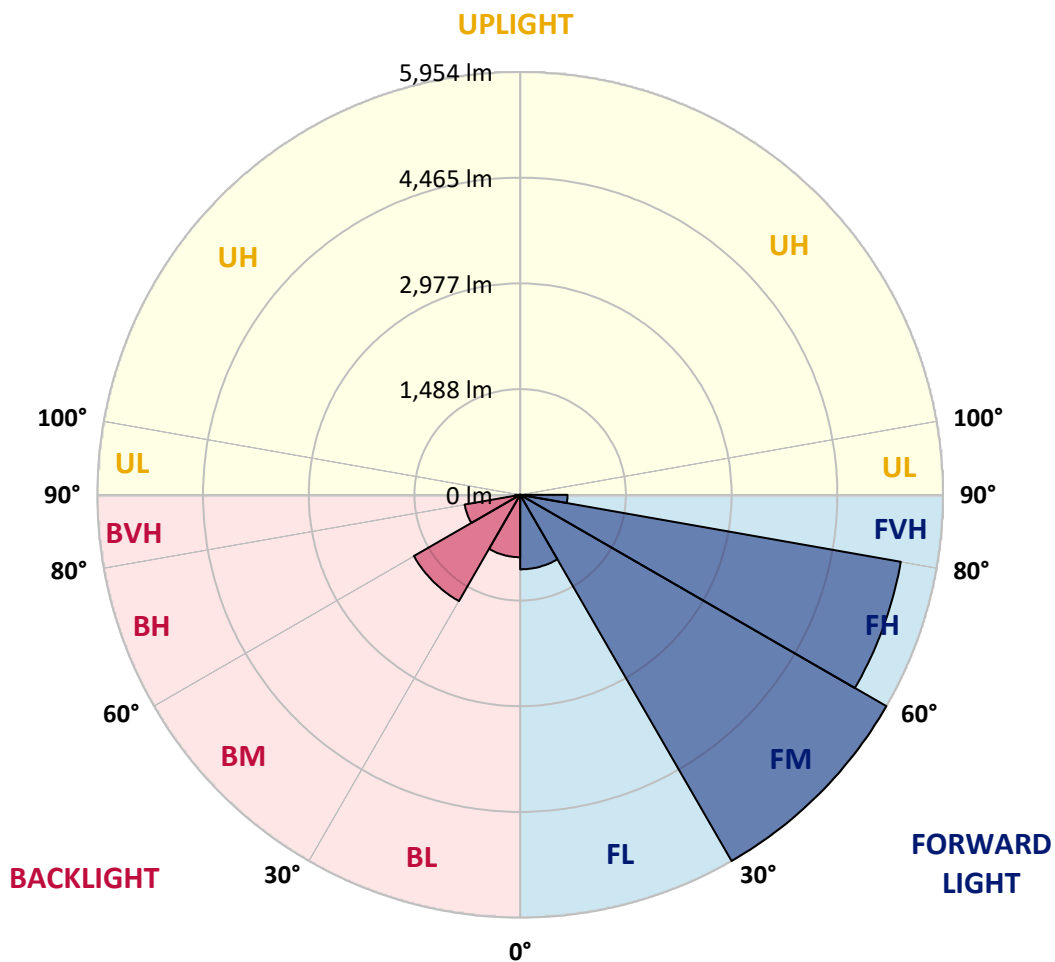
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1049.5	6.3			
FM	(30°-60°)	5953.6	35.9			
FH	(60°-80°)	5441.9	32.8			G3/7500
FVH	(80°-90°)	666.3	4.0			G4/750
BL	(0°-30°)	878.7	5.3	B2/1000		
BM	(30°-60°)	1728.2	10.4	B2/2500		
BH	(60°-80°)	793.3	4.8	B2/1000		G2/1000
BVH	(80°-90°)	70.9	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°	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6
2.5°	2034.2	2037.8	2037.8	2034.2	2037.8	2036.6	2036.6	2040.3	2041.5	2047.7	2044.0
5°	2024.3	2025.5	2026.8	2024.3	2025.5	2025.5	2028.0	2031.7	2032.9	2040.3	2036.6
7.5°	2013.2	2015.7	2010.8	2012.0	2015.7	2020.6	2020.6	2025.5	2034.2	2037.8	2036.6
10°	2019.4	2016.9	2013.2	2012.0	2014.5	2015.7	2018.1	2026.8	2034.2	2037.8	2044.0
12.5°	2067.4	2060.0	2056.3	2055.1	2056.3	2053.9	2062.5	2064.9	2067.4	2072.3	2069.9
15°	2158.5	2148.7	2142.5	2136.4	2149.9	2143.7	2143.7	2136.4	2124.0	2105.6	2082.2
17.5°	2285.3	2274.3	2269.3	2266.9	2268.1	2257.0	2234.9	2199.1	2156.1	2106.8	2061.2
20°	2467.6	2484.8	2477.4	2444.2	2431.9	2382.6	2312.4	2238.6	2163.4	2084.6	2009.5
22.5°	2782.8	2772.9	2739.7	2657.2	2583.3	2472.5	2346.9	2227.5	2116.7	2002.1	1903.6
25°	3148.5	3066.0	2972.4	2809.9	2640.0	2457.7	2276.7	2135.1	1987.4	1861.8	1743.6
27.5°	3596.7	3418.2	3179.3	2914.5	2660.9	2418.3	2204.1	2016.9	1848.2	1714.0	1582.3
30°	4037.5	3739.5	3407.1	3056.2	2713.8	2386.3	2103.1	1886.4	1691.8	1519.5	1386.5
32.5°	4342.9	3982.1	3568.4	3135.0	2718.8	2334.6	1992.3	1733.7	1514.5	1340.9	1180.8
35°	4594.1	4143.4	3625.0	3122.6	2640.0	2213.9	1833.4	1546.5	1313.8	1134.1	993.7
37.5°	4766.5	4225.9	3621.3	3051.2	2499.6	2021.8	1651.2	1359.4	1142.7	975.2	845.9
40°	4887.1	4251.8	3573.3	2929.3	2338.3	1835.9	1456.7	1190.7	1001.1	870.5	777.0
42.5°	4945.0	4234.5	3501.9	2813.6	2178.2	1685.7	1310.1	1077.4	923.5	825.0	756.0
45°	4969.6	4192.7	3421.9	2700.3	2047.7	1556.4	1235.0	1042.9	922.3	837.3	762.2
47.5°	4963.5	4147.1	3350.4	2606.7	1970.1	1521.9	1249.8	1089.7	967.8	861.9	765.9
50°	4946.2	4105.2	3304.9	2572.2	1968.9	1573.6	1332.3	1168.5	1020.8	884.1	762.2
52.5°	4945.0	4101.5	3329.5	2612.9	2040.3	1690.6	1456.7	1259.6	1072.5	908.7	763.4
55°	4974.6	4168.0	3434.2	2722.5	2212.7	1854.4	1597.0	1356.9	1130.4	926.0	759.7
57.5°	5094.0	4334.3	3632.4	2967.5	2434.3	2053.9	1732.5	1429.6	1152.5	921.0	742.5
60°	5356.3	4626.1	3937.8	3313.5	2718.8	2236.1	1812.5	1454.2	1142.7	891.5	705.6
62.5°	5765.1	5048.4	4356.4	3653.3	2971.2	2345.7	1831.0	1434.5	1103.3	842.2	660.0
63°	5869.7	5145.7	4441.4	3723.5	3014.3	2356.8	1829.8	1427.1	1092.2	829.9	648.9
65°	6306.9	5563.1	4782.5	3955.0	3130.0	2378.9	1801.4	1380.3	1042.9	772.0	598.4
67.5°	6964.4	6023.6	5121.1	4170.5	3194.1	2339.5	1712.8	1264.6	916.1	671.1	523.3
70°	7402.7	6329.0	5323.0	4240.7	3119.0	2159.7	1509.6	1060.2	748.6	552.9	447.0
72.5°	7413.8	6055.7	5049.7	3876.2	2692.9	1781.7	1182.1	801.6	582.4	449.4	385.4
75°	6622.1	5117.4	4127.4	3183.0	2072.3	1259.6	831.1	584.9	447.0	370.6	333.7
77.5°	4922.8	3733.4	2978.6	2141.3	1345.8	816.4	578.7	433.4	354.6	306.6	279.5
80°	3054.9	2333.4	1807.6	1280.6	806.5	543.0	423.6	344.8	298.0	256.1	234.0
82.5°	1842.1	1306.4	1020.8	773.3	515.9	391.6	326.3	290.6	252.4	215.5	198.2
85°	1349.5	934.6	684.6	477.8	318.9	258.6	229.0	221.6	195.8	166.2	156.4
87.5°	424.8	445.7	463.0	282.0	153.9	117.0	99.7	117.0	112.1	78.8	86.2
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°	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6
2.5°	2050.2	2055.1	2051.4	2051.4	2048.9	2047.7	2056.3	2053.9	2056.3	2055.1	2057.5
5°	2042.8	2046.5	2044.0	2046.5	2044.0	2044.0	2055.1	2055.1	2060.0	2062.5	2068.6
7.5°	2045.2	2046.5	2045.2	2048.9	2046.5	2044.0	2050.2	2053.9	2062.5	2069.9	2076.0
10°	2053.9	2057.5	2056.3	2056.3	2048.9	2044.0	2047.7	2050.2	2058.8	2062.5	2069.9
12.5°	2074.8	2069.9	2060.0	2053.9	2036.6	2026.8	2021.8	2019.4	2025.5	2030.5	2034.2
15°	2069.9	2042.8	2020.6	2002.1	1976.3	1960.3	1948.0	1946.7	1948.0	1949.2	1952.9
17.5°	2019.4	1982.4	1938.1	1914.7	1885.2	1867.9	1859.3	1853.1	1851.9	1854.4	1860.5
20°	1946.7	1892.5	1843.3	1802.7	1770.6	1743.6	1749.7	1736.2	1742.3	1746.0	1757.1
22.5°	1835.9	1760.8	1704.2	1654.9	1616.7	1588.4	1588.4	1576.1	1578.6	1589.6	1604.4
25°	1656.1	1585.9	1504.7	1470.2	1427.1	1407.4	1403.7	1401.2	1411.1	1424.6	1433.3
27.5°	1493.6	1397.6	1317.5	1272.0	1226.4	1231.3	1206.7	1221.5	1232.6	1243.6	1253.5
30°	1274.4	1195.6	1123.0	1077.4	1023.2	1024.5	1028.2	1030.6	1040.5	1055.2	1074.9
32.5°	1063.9	978.9	911.2	861.9	829.9	820.1	806.5	828.7	841.0	855.8	875.5
35°	890.2	801.6	745.0	701.9	683.4	669.8	666.1	663.7	674.8	682.2	698.2
37.5°	765.9	705.6	663.7	632.9	615.7	600.9	597.2	594.7	593.5	591.0	600.9
40°	715.4	667.4	631.7	603.4	587.3	578.7	575.0	570.1	565.2	559.0	557.8
42.5°	700.6	648.9	607.0	578.7	566.4	565.2	565.2	562.7	557.8	549.2	543.0
45°	694.5	631.7	583.6	561.5	552.9	554.1	554.1	554.1	550.4	541.8	531.9
47.5°	683.4	610.7	561.5	543.0	539.3	541.8	544.2	544.2	541.8	534.4	523.3
50°	662.5	578.7	527.0	509.8	508.5	509.8	509.8	512.2	509.8	503.6	493.8
52.5°	646.4	554.1	501.1	487.6	487.6	486.4	485.1	485.1	483.9	479.0	471.6
55°	631.7	538.1	490.1	479.0	481.4	481.4	479.0	477.8	472.8	466.7	459.3
57.5°	610.7	520.9	479.0	471.6	474.1	472.8	471.6	470.4	465.4	458.1	448.2
60°	573.8	490.1	456.8	451.9	455.6	456.8	461.7	463.0	460.5	451.9	438.4
62.5°	533.2	451.9	427.3	423.6	427.3	431.0	434.7	432.2	432.2	423.6	411.3
63°	519.6	445.7	418.7	418.7	422.3	426.0	428.5	426.0	427.3	417.4	405.1
65°	488.8	423.6	402.6	403.9	407.6	410.0	411.3	411.3	410.0	402.6	391.6
67.5°	437.1	391.6	379.2	385.4	390.3	391.6	391.6	394.0	391.6	386.6	376.8
70°	390.3	360.8	352.2	359.5	362.0	363.2	363.2	363.2	360.8	355.9	347.2
72.5°	354.6	339.8	338.6	337.4	338.6	334.9	334.9	332.5	326.3	322.6	315.2
75°	315.2	307.8	309.1	307.8	305.4	304.1	298.0	295.5	288.1	283.2	273.4
77.5°	270.9	272.1	270.9	272.1	274.6	275.8	267.2	261.0	254.9	250.0	245.0
80°	225.3	227.8	225.3	227.8	229.0	229.0	220.4	210.6	205.6	209.3	210.6
82.5°	200.7	200.7	190.9	193.3	190.9	187.2	181.0	177.3	173.6	171.2	177.3
85°	158.8	160.1	162.5	160.1	155.1	151.5	145.3	140.4	136.7	140.4	149.0
87.5°	94.8	102.2	98.5	98.5	97.3	97.3	92.3	89.9	86.2	101.0	108.4
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°	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6
2.5°	2056.3	2060.0	2061.2	2060.0	2061.2	2063.7	2053.9	2063.7	2064.9	2057.5	2060.0
5°	2073.6	2079.7	2088.3	2088.3	2094.5	2098.2	2093.3	2106.8	2109.3	2108.0	2114.2
7.5°	2085.9	2094.5	2105.6	2111.7	2122.8	2127.7	2131.4	2143.7	2146.2	2151.1	2156.1
10°	2084.6	2096.9	2106.8	2124.0	2137.6	2147.4	2154.8	2168.4	2173.3	2180.7	2184.4
12.5°	2048.9	2062.5	2080.9	2105.6	2130.2	2146.2	2165.9	2185.6	2193.0	2202.8	2209.0
15°	1968.9	1980.0	2005.8	2037.8	2071.1	2111.7	2140.0	2170.8	2184.4	2194.2	2202.8
17.5°	1864.2	1874.1	1897.5	1925.8	1970.1	2009.5	2052.6	2099.4	2122.8	2133.9	2137.6
20°	1767.0	1781.7	1787.9	1821.1	1835.9	1875.3	1912.3	1964.0	1993.5	2013.2	2025.5
22.5°	1614.3	1621.7	1653.7	1667.2	1678.3	1702.9	1748.5	1794.0	1833.4	1865.5	1875.3
25°	1445.6	1465.3	1482.5	1493.6	1519.5	1520.7	1557.6	1589.6	1638.9	1669.7	1694.3
27.5°	1259.6	1289.2	1299.0	1306.4	1326.1	1349.5	1363.1	1395.1	1423.4	1459.1	1503.4
30°	1072.5	1100.8	1120.5	1131.6	1150.1	1172.2	1182.1	1203.0	1239.9	1279.3	1313.8
32.5°	897.6	927.2	937.0	972.7	977.7	998.6	1006.0	1039.2	1060.2	1093.4	1134.1
35°	726.5	757.3	786.8	806.5	828.7	827.5	847.2	877.9	896.4	930.9	958.0
37.5°	609.5	628.0	648.9	671.1	695.7	714.2	732.6	746.2	761.0	784.4	809.0
40°	557.8	562.7	571.3	584.9	602.1	615.7	629.2	640.3	651.4	669.8	685.8
42.5°	536.9	533.2	533.2	530.7	536.9	544.2	555.3	559.0	576.3	587.3	593.5
45°	522.1	513.5	507.3	499.9	497.5	499.9	506.1	514.7	525.8	529.5	529.5
47.5°	513.5	499.9	490.1	479.0	472.8	472.8	476.5	482.7	488.8	490.1	488.8
50°	483.9	470.4	458.1	448.2	443.3	443.3	444.5	453.1	454.4	451.9	453.1
52.5°	461.7	448.2	435.9	427.3	421.1	422.3	426.0	429.7	433.4	431.0	428.5
55°	448.2	432.2	421.1	411.3	403.9	406.3	410.0	415.0	421.1	417.4	413.7
57.5°	435.9	422.3	408.8	398.9	390.3	392.8	396.5	403.9	411.3	403.9	398.9
60°	424.8	411.3	397.7	387.9	378.0	380.5	385.4	392.8	398.9	389.1	382.9
62.5°	397.7	385.4	375.6	370.6	364.5	368.2	371.9	380.5	378.0	368.2	360.8
63°	392.8	380.5	371.9	366.9	362.0	366.9	368.2	376.8	373.1	363.2	357.1
65°	378.0	368.2	359.5	354.6	349.7	352.2	352.2	355.9	350.9	343.5	338.6
67.5°	364.5	353.4	344.8	334.9	330.0	327.5	326.3	325.1	321.4	317.7	316.5
70°	334.9	327.5	320.1	311.5	304.1	299.2	296.7	294.3	291.8	290.6	289.4
72.5°	302.9	296.7	289.4	284.4	278.3	274.6	268.4	267.2	264.7	262.3	261.0
75°	268.4	261.0	258.6	253.7	250.0	247.5	242.6	241.3	238.9	235.2	234.0
77.5°	237.6	235.2	231.5	230.3	224.1	220.4	217.9	216.7	214.3	211.8	209.3
80°	211.8	210.6	208.1	206.9	203.2	198.2	195.8	197.0	193.3	192.1	188.4
82.5°	190.9	192.1	192.1	188.4	184.7	178.5	176.1	179.8	177.3	172.4	167.5
85°	162.5	161.3	162.5	161.3	153.9	147.8	145.3	147.8	146.5	139.1	137.9
87.5°	115.7	114.5	112.1	119.4	109.6	88.7	91.1	103.4	99.7	96.0	93.6
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6
2.5°	2064.9	2061.2	2063.7	2064.9	2061.2	2069.9	2061.2	2062.5	2064.9	2057.5	2056.3
5°	2119.1	2119.1	2129.0	2130.2	2129.0	2140.0	2138.8	2140.0	2137.6	2136.4	2131.4
7.5°	2163.4	2168.4	2175.8	2186.8	2190.5	2199.1	2201.6	2202.8	2207.8	2212.7	2210.2
10°	2195.5	2209.0	2215.2	2226.2	2237.3	2243.5	2249.6	2259.5	2263.2	2266.9	2261.9
12.5°	2217.6	2233.6	2243.5	2257.0	2270.6	2280.4	2291.5	2303.8	2316.1	2319.8	2313.7
15°	2206.5	2225.0	2239.8	2254.6	2275.5	2294.0	2314.9	2337.1	2353.1	2359.2	2351.8
17.5°	2137.6	2156.1	2178.2	2200.4	2222.5	2257.0	2286.6	2323.5	2349.4	2367.8	2370.3
20°	2042.8	2053.9	2085.9	2108.0	2143.7	2184.4	2228.7	2271.8	2301.3	2334.6	2354.3
22.5°	1902.4	1924.6	1960.3	1998.4	2034.2	2087.1	2133.9	2190.5	2241.0	2286.6	2329.7
25°	1731.2	1762.0	1803.9	1856.8	1903.6	1960.3	2028.0	2090.8	2175.8	2247.2	2339.5
27.5°	1546.5	1603.2	1661.1	1716.5	1768.2	1832.2	1902.4	1972.6	2069.9	2184.4	2305.0
30°	1371.7	1418.5	1491.1	1555.2	1615.5	1694.3	1767.0	1844.5	1936.9	2072.3	2209.0
32.5°	1189.5	1227.6	1284.3	1363.1	1433.3	1525.6	1589.6	1682.0	1789.1	1932.0	2087.1
35°	1001.1	1054.0	1099.6	1153.8	1206.7	1299.0	1395.1	1497.3	1620.4	1773.1	1943.0
37.5°	834.8	868.1	890.2	945.7	992.4	1071.3	1183.3	1306.4	1441.9	1597.0	1779.3
40°	696.9	717.9	742.5	779.4	818.8	890.2	993.7	1131.6	1273.2	1428.3	1610.6
42.5°	602.1	615.7	618.1	646.4	683.4	753.6	836.1	962.9	1119.3	1281.8	1464.0
45°	536.9	536.9	535.6	547.9	577.5	637.8	712.9	826.2	975.2	1145.1	1334.8
47.5°	491.3	495.0	493.8	498.7	518.4	562.7	630.4	726.5	861.9	1028.2	1219.0
50°	456.8	461.7	463.0	464.2	471.6	508.5	566.4	644.0	764.7	923.5	1115.6
52.5°	429.7	431.0	431.0	429.7	432.2	453.1	501.1	572.6	684.6	827.5	1012.2
55°	415.0	416.2	416.2	416.2	416.2	429.7	464.2	522.1	612.0	746.2	913.6
57.5°	397.7	397.7	400.2	400.2	400.2	405.1	429.7	477.8	546.7	653.8	802.8
60°	382.9	386.6	391.6	392.8	391.6	391.6	403.9	435.9	481.4	559.0	684.6
62.5°	360.8	365.7	371.9	374.3	375.6	373.1	379.2	392.8	419.9	460.5	545.5
63°	357.1	362.0	366.9	369.4	370.6	368.2	373.1	384.2	406.3	439.6	515.9
65°	341.1	347.2	348.5	349.7	348.5	347.2	346.0	346.0	352.2	364.5	405.1
67.5°	318.9	322.6	322.6	325.1	318.9	316.5	314.0	311.5	307.8	309.1	323.8
70°	293.1	295.5	294.3	293.1	290.6	286.9	284.4	280.7	273.4	270.9	278.3
72.5°	263.5	266.0	266.0	266.0	261.0	258.6	256.1	253.7	251.2	253.7	256.1
75°	236.4	236.4	238.9	237.6	234.0	231.5	230.3	229.0	229.0	229.0	227.8
77.5°	210.6	209.3	209.3	205.6	203.2	201.9	204.4	205.6	204.4	201.9	200.7
80°	188.4	182.2	176.1	171.2	169.9	172.4	174.8	182.2	178.5	178.5	176.1
82.5°	160.1	146.5	137.9	139.1	135.4	136.7	139.1	147.8	145.3	146.5	151.5
85°	128.1	115.7	102.2	104.7	104.7	102.2	108.4	110.8	113.3	119.4	114.5
87.5°	89.9	78.8	65.3	56.6	59.1	61.6	64.0	61.6	54.2	56.6	55.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6
2.5°	2053.9	2055.1	2055.1	2046.5	2044.0	2046.5	2045.2	2045.2	2037.8	2039.1	2036.6
5°	2129.0	2131.4	2124.0	2117.9	2109.3	2108.0	2106.8	2101.9	2096.9	2087.1	2082.2
7.5°	2209.0	2197.9	2195.5	2184.4	2180.7	2170.8	2163.4	2156.1	2149.9	2145.0	2141.3
10°	2259.5	2250.9	2248.4	2228.7	2222.5	2210.2	2202.8	2194.2	2186.8	2179.4	2178.2
12.5°	2305.0	2290.3	2281.6	2254.6	2242.2	2228.7	2222.5	2215.2	2212.7	2211.5	2216.4
15°	2340.8	2319.8	2303.8	2279.2	2269.3	2261.9	2263.2	2259.5	2274.3	2282.9	2298.9
17.5°	2364.1	2355.5	2351.8	2333.4	2339.5	2339.5	2356.8	2365.4	2392.5	2414.6	2436.8
20°	2376.5	2392.5	2423.3	2429.4	2444.2	2460.2	2486.0	2500.8	2529.1	2561.2	2591.9
22.5°	2387.5	2455.3	2518.1	2564.9	2598.1	2635.0	2653.5	2684.3	2704.0	2727.4	2774.2
25°	2449.1	2562.4	2673.2	2733.5	2812.3	2865.3	2907.2	2937.9	2972.4	2992.1	3045.1
27.5°	2431.9	2575.9	2723.7	2834.5	2957.6	3057.4	3146.0	3205.1	3249.5	3320.9	3365.2
30°	2353.1	2520.5	2699.1	2856.7	3029.1	3191.6	3345.5	3483.4	3601.6	3697.7	3762.9
32.5°	2241.0	2433.1	2642.4	2837.0	3057.4	3274.1	3495.7	3706.3	3907.0	4065.8	4165.6
35°	2115.4	2322.3	2553.8	2784.0	3048.8	3332.0	3631.2	3914.4	4205.0	4458.6	4658.1
37.5°	1962.7	2186.8	2440.5	2707.7	3011.8	3351.7	3728.5	4113.9	4484.5	4868.7	5149.4
40°	1802.7	2021.8	2285.3	2590.7	2941.6	3341.8	3803.6	4303.5	4840.3	5335.3	5762.6
42.5°	1666.0	1880.2	2156.1	2457.7	2835.7	3304.9	3854.1	4473.4	5134.6	5776.2	6343.8
45°	1531.8	1760.8	2039.1	2358.0	2770.5	3290.1	3919.3	4621.2	5376.0	6136.9	6861.0
47.5°	1425.9	1652.4	1933.2	2275.5	2717.5	3281.5	3980.9	4759.1	5573.0	6405.4	7263.6
50°	1324.9	1541.6	1815.0	2175.8	2662.1	3267.9	4017.8	4868.7	5726.9	6615.9	7549.3
52.5°	1221.5	1446.8	1712.8	2062.5	2589.5	3240.9	4028.9	4954.9	5885.7	6817.9	7816.5
55°	1116.8	1342.1	1608.1	1970.1	2491.0	3187.9	4020.3	5017.7	6052.0	7030.9	8060.3
57.5°	988.8	1210.4	1488.7	1853.1	2364.1	3082.0	3978.4	5044.7	6155.4	7230.3	8305.3
60°	844.7	1054.0	1317.5	1689.4	2209.0	2929.3	3884.8	5006.6	6202.2	7362.1	8565.1
62.5°	663.7	845.9	1088.5	1457.9	1983.7	2708.9	3680.4	4837.9	6088.9	7328.9	8677.2
63°	623.1	799.1	1049.1	1396.3	1917.2	2632.6	3620.1	4780.0	6038.4	7298.1	8663.6
65°	475.3	605.8	812.7	1123.0	1620.4	2280.4	3302.4	4452.5	5720.7	6991.5	8450.6
67.5°	350.9	418.7	545.5	753.6	1140.2	1774.3	2706.5	3845.4	5046.0	6240.4	7725.3
70°	290.6	316.5	375.6	482.7	705.6	1177.1	1912.3	2926.9	4056.0	5084.1	6425.1
72.5°	259.8	278.3	305.4	353.4	445.7	690.8	1243.6	1899.9	2824.7	3713.7	4846.5
75°	232.7	245.0	267.2	295.5	337.4	432.2	657.5	1126.7	1726.3	2502.1	3324.6
77.5°	204.4	216.7	238.9	261.0	288.1	328.8	407.6	641.5	1033.1	1460.4	2040.3
80°	177.3	183.5	201.9	234.0	253.7	286.9	312.8	401.4	562.7	764.7	1087.3
82.5°	146.5	147.8	160.1	184.7	209.3	221.6	229.0	252.4	323.8	403.9	533.2
85°	104.7	99.7	107.1	117.0	136.7	125.6	134.2	141.6	172.4	208.1	381.7
87.5°	46.8	36.9	43.1	48.0	43.1	29.6	43.1	35.7	44.3	87.4	98.5
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°	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	0°
2.5°	2039.1	2031.7	2031.7	2030.5	2031.7	2029.2	2024.3	2024.3	2028.0	2026.8	2026.8	2.5°
5°	2082.2	2072.3	2069.9	2068.6	2068.6	2062.5	2055.1	2051.4	2050.2	2045.2	2041.5	5°
7.5°	2138.8	2132.7	2136.4	2129.0	2126.5	2125.3	2115.4	2108.0	2096.9	2092.0	2073.6	7.5°
10°	2185.6	2181.9	2191.8	2190.5	2191.8	2191.8	2178.2	2170.8	2154.8	2146.2	2122.8	10°
12.5°	2226.2	2228.7	2247.2	2247.2	2250.9	2255.8	2248.4	2232.4	2226.2	2217.6	2193.0	12.5°
15°	2329.7	2339.5	2353.1	2375.2	2381.4	2382.6	2388.8	2375.2	2359.2	2337.1	2307.5	15°
17.5°	2470.0	2489.7	2535.3	2567.3	2573.5	2579.6	2575.9	2573.5	2543.9	2525.5	2494.7	17.5°
20°	2646.1	2694.1	2758.2	2802.5	2822.2	2824.7	2849.3	2832.1	2805.0	2768.0	2723.7	20°
22.5°	2843.1	2923.2	3004.4	3069.7	3107.9	3125.1	3151.0	3126.3	3090.6	3068.5	3009.4	22.5°
25°	3112.8	3200.2	3293.8	3345.5	3442.8	3471.1	3485.9	3478.5	3441.6	3457.6	3403.4	25°
27.5°	3482.2	3557.3	3689.1	3754.3	3845.4	3898.4	3887.3	3948.9	3959.9	3998.1	4004.3	27.5°
30°	3884.8	4009.2	4186.5	4318.3	4457.4	4547.3	4618.7	4672.9	4735.7	4841.6	4905.6	30°
32.5°	4319.5	4499.3	4725.8	5005.3	5300.9	5542.2	5814.3	5861.1	6001.5	5960.9	5933.8	32.5°
35°	4803.4	5030.0	5320.6	5687.5	6117.2	6516.2	6778.5	6910.2	6965.6	6996.4	6809.2	35°
37.5°	5451.1	5757.7	6081.5	6481.7	6810.5	7183.6	7485.2	7812.8	7963.0	7891.6	7533.3	37.5°
40°	6168.9	6455.8	6894.2	7221.7	7609.6	8224.0	8632.8	9026.9	9150.0	8912.3	8350.9	40°
42.5°	6889.3	7283.3	7758.6	8224.0	8669.8	9226.3	9768.1	10157.2	10292.7	9886.3	9220.2	42.5°
45°	7530.8	8035.6	8594.7	9072.4	9695.5	10423.2	11086.9	11399.6	11375.0	10722.4	9972.5	45°
47.5°	8089.8	8744.9	9375.3	10019.3	10647.3	11468.6	12126.1	12485.7	12230.8	11544.9	10695.3	47.5°
50°	8551.6	9343.3	10104.3	10844.3	11615.1	12488.1	13122.2	13454.7	13066.8	12198.8	11249.4	50°
52.5°	8902.5	9883.9	10760.6	11588.0	12509.0	13452.2	14016.2	14216.9	13612.3	12704.8	11664.4	52.5°
55°	9233.7	10343.1	11313.4	12252.9	13399.3	14245.2	14773.5	14736.5	13955.9	12925.2	11924.2	55°
57.5°	9483.7	10734.7	11767.8	12837.8	14072.8	14976.6	15282.0	15038.2	14098.7	12990.5	11999.3	57.5°
60°	9798.9	11040.1	12171.7	13366.0	14713.1	15477.8	15518.4	15081.3	14058.1	12867.4	11893.4	60°
62.5°	10000.8	11230.9	12429.0	13728.1	15200.7	15759.7	15469.2	14895.4	13824.1	12563.2	11650.8	62.5°
63°	10020.5	11249.4	12449.9	13763.8	15269.7	15772.1	15423.6	14811.6	13755.1	12479.5	11586.8	63°
65°	9931.9	11196.5	12353.9	13699.7	15286.9	15626.8	15089.9	14468.1	13374.7	12052.2	11210.0	65°
67.5°	9312.5	10627.6	11732.1	12994.2	14622.0	14810.4	14272.3	13596.3	12569.4	11131.2	10386.2	67.5°
70°	8203.1	9452.9	10236.0	11408.2	12840.3	13065.6	12584.2	12060.8	11148.4	9946.7	9328.5	70°
72.5°	6608.5	7836.2	8306.5	9204.2	10341.9	10292.7	9954.0	9888.8	9408.6	8400.1	8028.2	72.5°
75°	4940.1	6108.6	6306.9	6672.6	7307.9	7291.9	7370.7	7651.5	7891.6	7295.6	6819.1	75°
77.5°	3258.1	4420.5	4543.6	4969.6	5145.7	5628.4	6194.8	6900.4	7250.1	7006.2	6421.4	77.5°
80°	1802.7	3024.1	2999.5	3165.7	3477.3	4179.1	5037.4	6085.2	6784.6	6609.8	5969.5	80°
82.5°	937.0	1911.0	1882.7	1912.3	2201.6	2791.4	3444.0	4301.0	5023.8	5039.8	4824.3	82.5°
85°	696.9	1371.7	1453.0	1519.5	1711.5	1917.2	2036.6	2311.2	2707.7	3077.1	3208.8	85°
87.5°	256.1	823.8	1025.7	1102.0	1107.0	1081.1	880.4	969.1	881.6	1042.9	1456.7	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°
2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6
2029.2	2029.2	2028.0	2030.5	2031.7	2035.4	2034.2
2037.8	2034.2	2030.5	2028.0	2025.5	2026.8	2024.3
2060.0	2047.7	2037.8	2029.2	2021.8	2020.6	2013.2
2109.3	2087.1	2068.6	2055.1	2040.3	2032.9	2019.4
2172.1	2147.4	2124.0	2104.3	2087.1	2077.2	2067.4
2281.6	2245.9	2217.6	2196.7	2179.4	2168.4	2158.5
2444.2	2399.9	2356.8	2316.1	2311.2	2285.3	2285.3
2668.3	2607.9	2552.5	2518.1	2502.1	2467.6	2467.6
2978.6	2919.5	2837.0	2795.1	2798.8	2769.3	2782.8
3380.0	3330.7	3245.8	3228.5	3228.5	3196.5	3148.5
3982.1	3964.9	3871.3	3894.7	3845.4	3726.0	3596.7
4876.1	4876.1	4695.0	4564.5	4451.2	4265.3	4037.5
5771.2	5654.3	5377.2	5155.6	4920.4	4635.9	4342.9
6527.3	6215.7	5935.0	5664.1	5310.7	5005.3	4594.1
7165.1	6869.6	6548.2	6135.7	5720.7	5294.7	4766.5
7955.6	7596.1	7113.4	6595.0	6085.2	5499.1	4887.1
8678.4	8227.7	7618.2	6961.9	6313.0	5659.2	4945.0
9358.1	8776.9	8024.6	7236.5	6497.7	5757.7	4969.6
9998.4	9218.9	8343.5	7432.3	6624.5	5810.6	4963.5
10420.7	9542.8	8544.2	7550.5	6700.9	5829.1	4946.2
10685.5	9741.0	8662.4	7615.8	6739.1	5832.8	4945.0
10834.4	9853.1	8726.4	7661.3	6780.9	5855.0	4974.6
10950.2	9941.7	8797.8	7738.9	6880.7	5958.4	5094.0
11059.8	10174.5	8983.8	7881.7	7054.3	6151.7	5356.3
11105.3	10616.5	9361.8	8145.2	7296.8	6462.0	5765.1
11101.6	10700.2	9471.4	8217.9	7360.9	6544.5	5869.7
10967.4	10966.2	9970.1	8565.1	7658.9	6926.2	6306.9
10569.7	11099.2	10521.7	9023.2	8121.8	7555.4	6964.4
9940.5	10937.9	10596.8	9143.8	8450.6	8132.9	7402.7
8856.9	10167.1	9893.7	8629.1	8338.5	8246.2	7413.8
7163.9	8173.5	8056.6	7372.0	7479.1	7668.7	6622.1
5771.2	5739.2	5722.0	5473.2	5928.8	6314.2	4922.8
4820.6	3971.0	3687.8	3591.8	4342.9	4638.4	3054.9
4506.7	3567.2	2861.6	2740.9	3254.4	3412.0	1842.1
3444.0	3463.7	2998.3	2569.8	2531.6	2317.4	1349.5
1685.7	1714.0	1811.3	1653.7	1418.5	1195.6	424.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0

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