

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: P159154

Luminaire Tested: **VST-F09-LED-E-U-SLR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159154
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-F09-LED-E-U-SLR-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(9) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18235.7 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 234.8
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



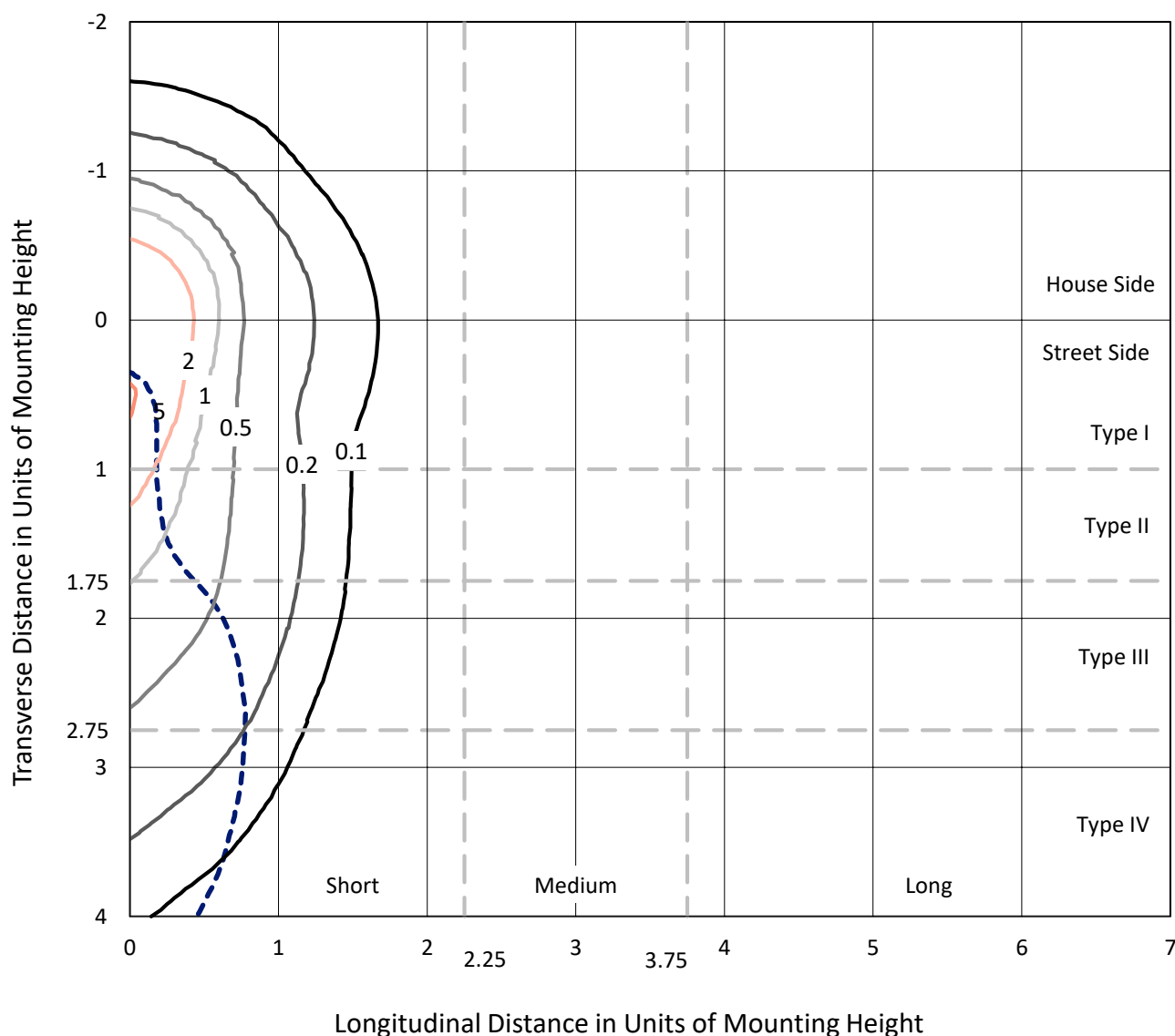
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

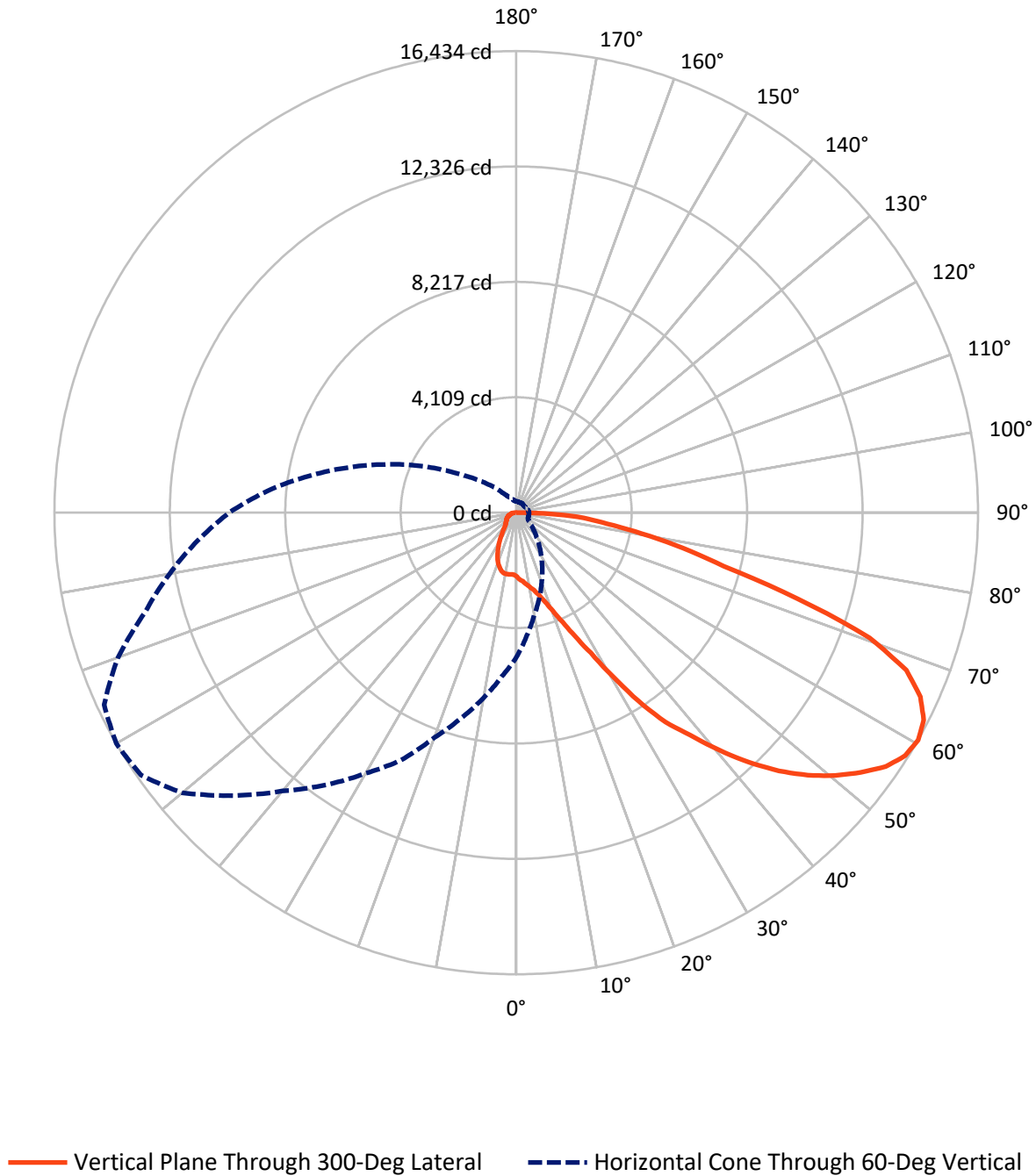


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4106.1	0.0	4106.1
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	14129.6	0.0	14129.6
	% Fixture	77.5	0.0	77.5
Total	Lumens	18235.7	0.0	18235.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.7	1.2
10°-20°	722.4	4.0
20°-30°	1370.8	7.5
30°-40°	2158.8	11.8
40°-50°	3013.2	16.5
50°-60°	3726.6	20.4
60°-70°	3862.8	21.2
70°-80°	2430.6	13.3
80°-90°	726.6	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°	18235.7	100.0
0°-180°	18235.7	100.0

Coefficient of Utilization



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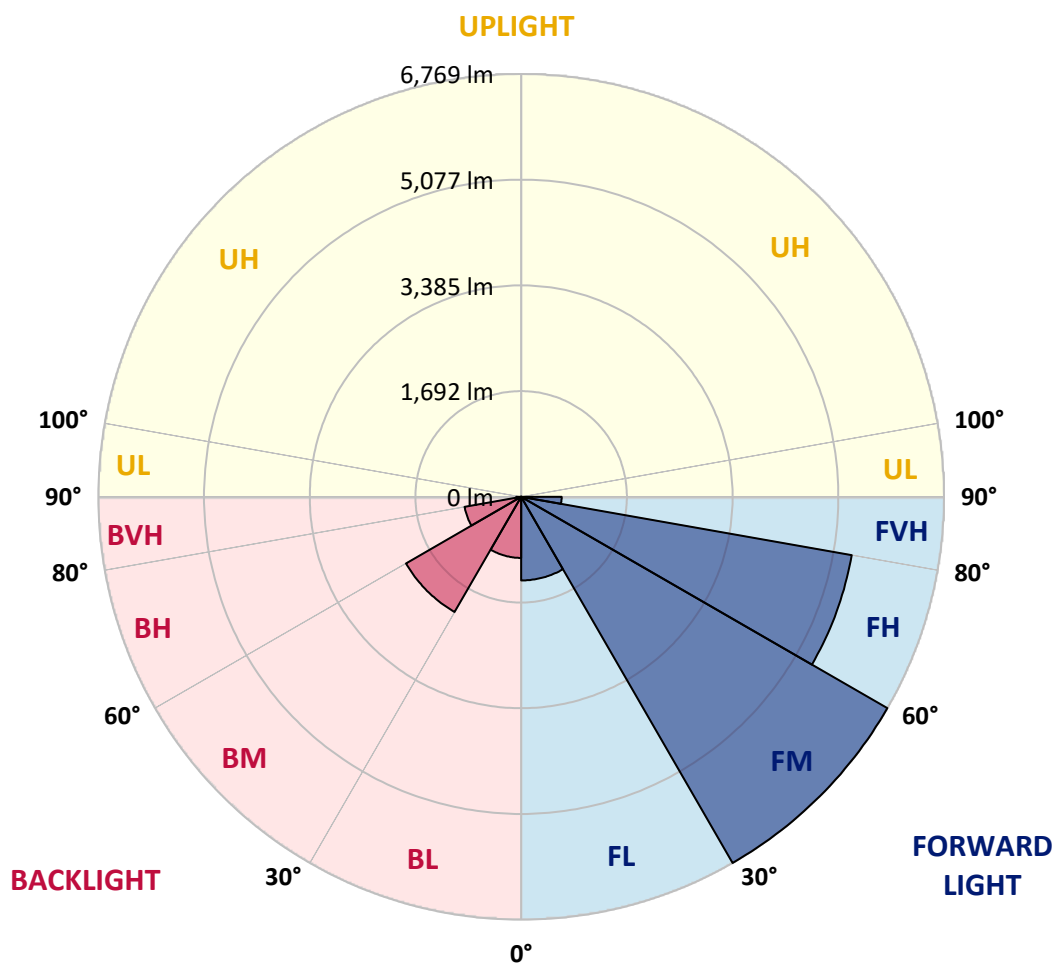
CATALOG NUMBER: VST-F09-LED-E-U-SLR-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1338.8	7.3			
FM	(30°-60°)	6769.4	37.1			
FH	(60°-80°)	5373.9	29.5			G3/7500
FVH	(80°-90°)	647.5	3.6			G4/750
BL	(0°-30°)	978.2	5.4	B2/1000		
BM	(30°-60°)	2129.3	11.7	B2/2500		
BH	(60°-80°)	919.6	5.0	B2/1000		G2/1000
BVH	(80°-90°)	79.0	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°	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9
2.5°	2402.2	2258.4	2261.1	2257.0	2257.0	2254.3	2257.0	2254.3	2251.6	2251.6	2252.9
5°	2433.4	2274.6	2274.6	2270.6	2267.9	2265.1	2267.9	2265.1	2263.8	2261.1	2262.4
7.5°	2463.3	2284.1	2278.7	2273.3	2266.5	2269.2	2269.2	2267.9	2269.2	2267.9	2270.6
10°	2512.2	2315.4	2301.8	2289.6	2288.2	2285.5	2285.5	2281.4	2281.4	2278.7	2280.1
12.5°	2637.0	2411.7	2396.8	2375.1	2371.0	2358.8	2352.0	2343.9	2330.3	2318.1	2308.6
15°	2847.4	2571.9	2543.4	2524.4	2516.2	2491.8	2453.8	2423.9	2384.6	2350.7	2315.4
17.5°	3105.2	2786.3	2752.4	2727.9	2687.2	2620.7	2556.9	2483.7	2407.7	2338.4	2274.6
20°	3466.3	3094.4	3027.9	2969.5	2867.7	2753.7	2634.3	2506.7	2390.0	2281.4	2187.8
22.5°	3954.8	3492.0	3368.5	3212.5	3023.8	2831.1	2641.1	2464.7	2308.6	2167.4	2042.6
25°	4516.7	3872.1	3649.5	3380.8	3091.7	2825.7	2575.9	2349.3	2167.4	1985.6	1849.8
27.5°	4930.7	4189.6	3861.2	3508.3	3139.2	2799.9	2493.2	2219.0	1999.1	1813.2	1649.0
30°	5166.8	4371.5	3976.6	3562.6	3147.3	2756.4	2388.7	2071.1	1817.3	1596.1	1438.6
32.5°	5318.8	4469.2	3988.8	3508.3	3049.6	2627.5	2229.9	1900.1	1624.6	1388.4	1221.5
35°	5446.4	4508.6	3931.8	3387.5	2865.0	2432.1	2026.3	1696.5	1404.7	1187.5	1016.5
37.5°	5498.0	4501.8	3840.8	3226.0	2684.5	2219.0	1818.6	1480.7	1220.1	1028.7	882.2
40°	5488.5	4439.4	3717.3	3053.7	2472.8	1996.4	1598.8	1301.5	1089.8	928.3	821.1
42.5°	5424.7	4356.6	3580.3	2878.6	2278.7	1811.8	1449.5	1186.2	1015.2	893.0	799.4
45°	5344.6	4257.5	3455.4	2718.4	2125.4	1680.2	1362.6	1153.6	1005.7	889.0	788.5
47.5°	5236.0	4147.6	3329.2	2604.4	2043.9	1640.8	1361.3	1172.6	1013.8	879.5	769.5
50°	5118.0	4067.5	3260.0	2555.6	2034.4	1665.3	1408.8	1202.5	1019.2	870.0	743.7
52.5°	5035.2	4032.2	3258.6	2573.2	2084.6	1733.1	1464.4	1240.5	1039.6	875.4	738.3
55°	4933.4	4026.8	3293.9	2649.2	2194.6	1848.5	1552.6	1305.6	1081.7	895.7	742.4
57.5°	4940.2	4134.0	3431.0	2836.5	2392.7	2004.6	1665.3	1385.7	1122.4	908.0	735.6
60°	5154.6	4383.7	3701.1	3156.8	2651.9	2187.8	1780.6	1429.1	1119.7	880.8	703.0
62.5°	5597.0	4758.3	4105.5	3532.8	2915.2	2328.9	1822.7	1416.9	1079.0	822.5	650.1
65°	6125.0	5196.7	4499.1	3824.6	3075.4	2361.5	1786.1	1349.0	997.5	746.5	586.3
67.5°	6652.9	5507.5	4725.7	3907.3	3010.2	2229.9	1650.3	1197.0	859.1	643.3	514.4
70°	6842.9	5571.3	4708.1	3721.4	2714.4	1902.8	1358.5	963.6	689.5	526.6	432.9
72.5°	6557.9	5172.2	4185.6	3162.2	2206.8	1475.3	996.2	711.2	526.6	412.6	352.9
75°	5500.7	4165.2	3308.8	2381.9	1593.3	1043.7	719.3	518.4	396.3	327.1	282.3
77.5°	3920.9	2900.3	2254.3	1564.8	1034.2	723.4	515.7	389.5	314.9	261.9	229.4
80°	2463.3	1780.6	1373.5	939.2	644.7	491.3	370.5	308.1	253.8	213.1	191.4
82.5°	1483.4	1036.9	808.9	583.6	423.4	336.6	272.8	241.6	202.2	176.4	164.2
85°	1007.0	762.7	530.7	344.7	255.2	198.1	185.9	166.9	150.6	126.2	122.1
87.5°	192.7	272.8	237.5	141.1	93.6	80.1	70.6	67.9	61.1	48.9	55.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9
2.5°	2244.8	2242.1	2236.6	2236.6	2232.6	2224.4	2223.1	2217.6	2210.9	2212.2	2210.9
5°	2252.9	2247.5	2240.7	2238.0	2232.6	2224.4	2220.4	2213.6	2206.8	2206.8	2206.8
7.5°	2262.4	2255.6	2250.2	2240.7	2229.9	2221.7	2210.9	2202.7	2198.6	2197.3	2198.6
10°	2270.6	2266.5	2258.4	2244.8	2229.9	2213.6	2202.7	2191.9	2181.0	2182.4	2183.7
12.5°	2288.2	2274.6	2252.9	2232.6	2209.5	2189.1	2170.1	2156.6	2143.0	2143.0	2144.4
15°	2276.0	2236.6	2206.8	2167.4	2141.6	2109.1	2087.4	2075.1	2067.0	2064.3	2065.6
17.5°	2204.1	2156.6	2111.8	2076.5	2041.2	2015.4	2005.9	1997.8	1986.9	1992.4	1986.9
20°	2095.5	2037.1	1973.4	1931.3	1889.2	1871.6	1855.3	1847.1	1840.3	1864.8	1864.8
22.5°	1939.4	1868.8	1803.7	1752.1	1704.6	1685.6	1669.3	1659.8	1663.9	1693.8	1696.5
25°	1742.6	1657.1	1571.6	1540.4	1492.9	1478.0	1468.5	1467.1	1471.2	1501.1	1507.8
27.5°	1533.6	1444.0	1370.8	1298.8	1277.1	1264.9	1247.3	1267.6	1271.7	1304.3	1317.8
30°	1311.0	1214.7	1137.3	1089.8	1043.7	1050.5	1035.5	1060.0	1070.8	1104.8	1115.6
32.5°	1083.0	992.1	914.7	867.2	834.7	838.7	827.9	849.6	860.5	901.2	921.5
35°	895.7	818.4	756.0	715.2	700.3	685.4	682.7	685.4	696.2	727.5	764.1
37.5°	788.5	724.7	680.0	650.1	629.7	620.2	614.8	614.8	614.8	621.6	639.2
40°	742.4	685.4	646.0	617.5	603.9	598.5	594.4	590.4	583.6	580.9	582.2
42.5°	722.0	656.9	614.8	593.1	584.9	584.9	584.9	582.2	575.4	568.7	561.9
45°	701.7	631.1	589.0	574.1	570.0	571.4	571.4	571.4	565.9	557.8	545.6
47.5°	675.9	602.6	560.5	551.0	551.0	555.1	556.4	556.4	551.0	542.9	533.4
50°	644.7	565.9	527.9	519.8	515.7	515.7	515.7	515.7	511.7	506.2	499.4
52.5°	628.4	545.6	506.2	498.1	498.1	494.0	492.7	488.6	484.5	480.4	470.9
55°	622.9	537.4	496.7	489.9	489.9	485.9	481.8	477.7	470.9	464.2	454.7
57.5°	608.0	519.8	484.5	479.1	479.1	476.4	472.3	468.2	461.4	451.9	439.7
60°	574.1	489.9	460.1	458.7	458.7	457.4	454.7	454.7	447.9	438.4	423.4
62.5°	530.7	458.7	430.2	430.2	428.9	427.5	422.1	420.7	412.6	400.4	386.8
65°	488.6	431.6	412.6	407.2	404.4	400.4	397.7	390.9	384.1	373.2	359.7
67.5°	435.7	390.9	378.7	373.2	367.8	363.7	359.7	355.6	347.4	339.3	328.4
70°	378.7	346.1	339.3	337.9	331.2	327.1	325.7	321.7	313.5	305.4	291.8
72.5°	324.4	305.4	299.9	299.9	291.8	286.4	283.7	282.3	276.9	270.1	257.9
75°	261.9	248.4	247.0	253.8	253.8	249.7	247.0	249.7	241.6	237.5	225.3
77.5°	214.4	207.6	203.6	206.3	214.4	210.4	204.9	204.9	204.9	198.1	194.1
80°	181.9	176.4	172.4	175.1	173.7	172.4	169.6	164.2	164.2	164.2	162.9
82.5°	164.2	162.9	147.9	147.9	142.5	138.4	135.7	133.0	130.3	130.3	137.1
85°	123.5	127.6	119.4	118.1	111.3	105.9	100.4	97.7	95.0	99.1	112.6
87.5°	59.7	59.7	57.0	63.8	58.4	55.6	51.6	48.9	51.6	63.8	76.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9
2.5°	2208.1	2206.8	2205.4	2202.7	2197.3	2195.9	2193.2	2193.2	2191.9	2189.1	2191.9
5°	2204.1	2206.8	2206.8	2205.4	2201.4	2204.1	2204.1	2208.1	2208.1	2210.9	2217.6
7.5°	2198.6	2205.4	2210.9	2214.9	2220.4	2224.4	2232.6	2244.8	2250.2	2259.7	2263.8
10°	2187.8	2200.0	2209.5	2221.7	2235.3	2250.2	2262.4	2281.4	2288.2	2301.8	2308.6
12.5°	2156.6	2176.9	2193.2	2217.6	2240.7	2263.8	2285.5	2309.9	2322.1	2337.1	2346.6
15°	2080.6	2103.6	2126.7	2148.4	2189.1	2233.9	2269.2	2301.8	2319.4	2338.4	2347.9
17.5°	1989.6	2004.6	2023.6	2052.1	2091.4	2130.8	2187.8	2233.9	2261.1	2282.8	2285.5
20°	1883.8	1905.5	1919.1	1929.9	1961.1	1988.3	2049.4	2102.3	2137.6	2163.4	2170.1
22.5°	1722.3	1745.3	1768.4	1776.6	1801.0	1836.3	1870.2	1927.2	1977.4	2015.4	2038.5
25°	1537.7	1559.4	1590.6	1615.1	1620.5	1649.0	1682.9	1748.1	1799.6	1860.7	1887.8
27.5°	1353.1	1372.1	1406.0	1419.6	1435.9	1464.4	1491.5	1545.8	1600.1	1670.7	1700.6
30°	1137.3	1178.0	1217.4	1243.2	1256.8	1290.7	1309.7	1362.6	1412.8	1464.4	1507.8
32.5°	952.7	989.4	1034.2	1066.7	1083.0	1108.8	1138.7	1183.5	1222.8	1273.0	1323.3
35°	783.1	833.3	863.2	891.7	933.7	946.0	975.8	1016.5	1039.6	1093.9	1150.9
37.5°	663.7	693.5	723.4	751.9	787.2	803.5	832.0	865.9	893.0	925.6	977.2
40°	590.4	606.7	628.4	647.4	673.2	693.5	708.5	737.0	757.3	789.9	826.5
42.5°	556.4	560.5	563.2	576.8	590.4	603.9	620.2	632.4	656.9	681.3	704.4
45°	537.4	529.3	525.2	526.6	532.0	540.2	553.7	567.3	583.6	598.5	612.1
47.5°	521.2	510.3	498.1	491.3	492.7	495.4	506.2	517.1	525.2	537.4	542.9
50°	483.2	473.7	462.8	453.3	454.7	456.0	465.5	473.7	479.1	483.2	489.9
52.5°	458.7	445.2	435.7	426.2	424.8	428.9	437.0	445.2	447.9	450.6	451.9
55°	441.1	427.5	415.3	405.8	401.7	411.2	413.9	424.8	428.9	428.9	430.2
57.5°	427.5	411.2	399.0	389.5	382.7	389.5	396.3	408.5	409.9	407.2	407.2
60°	407.2	394.9	382.7	373.2	366.4	371.9	377.3	390.9	390.9	384.1	382.7
62.5°	371.9	365.1	356.9	352.9	351.5	356.9	361.0	371.9	367.8	359.7	356.9
65°	346.1	340.7	332.5	329.8	328.4	336.6	337.9	344.7	339.3	335.2	333.9
67.5°	314.9	310.8	306.7	305.4	301.3	301.3	304.0	308.1	305.4	305.4	306.7
70°	279.6	274.2	270.1	271.4	268.7	268.7	270.1	272.8	271.4	274.2	276.9
72.5°	247.0	240.2	238.9	238.9	236.2	237.5	237.5	238.9	241.6	242.9	249.7
75°	215.8	209.0	209.0	207.6	207.6	207.6	209.0	211.7	214.4	215.8	218.5
77.5°	187.3	183.2	184.6	183.2	183.2	183.2	183.2	187.3	188.6	190.0	194.1
80°	161.5	161.5	162.9	162.9	161.5	160.1	161.5	164.2	165.6	166.9	168.3
82.5°	146.6	147.9	147.9	147.9	141.1	138.4	142.5	145.2	147.9	149.3	152.0
85°	126.2	120.8	126.2	124.9	115.4	114.0	114.0	115.4	118.1	115.4	115.4
87.5°	81.4	73.3	77.4	77.4	67.9	55.6	70.6	76.0	67.9	71.9	71.9
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°	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9
2.5°	2195.9	2193.2	2194.6	2194.6	2197.3	2193.2	2198.6	2204.1	2205.4	2205.4	2206.8
5°	2224.4	2221.7	2231.2	2227.1	2236.6	2235.3	2242.1	2247.5	2250.2	2250.2	2250.2
7.5°	2269.2	2278.7	2284.1	2299.1	2300.4	2308.6	2315.4	2322.1	2319.4	2320.8	2319.4
10°	2319.4	2331.6	2345.2	2360.2	2361.5	2371.0	2381.9	2388.7	2385.9	2384.6	2380.5
12.5°	2362.9	2371.0	2387.3	2402.2	2410.4	2425.3	2436.2	2441.6	2441.6	2437.5	2433.4
15°	2360.2	2372.4	2390.0	2411.7	2426.7	2448.4	2467.4	2479.6	2480.9	2476.9	2475.5
17.5°	2300.4	2318.1	2334.4	2364.2	2391.4	2421.2	2452.4	2470.1	2486.4	2495.9	2501.3
20°	2193.2	2214.9	2238.0	2277.4	2314.0	2353.4	2390.0	2415.8	2440.2	2468.7	2502.7
22.5°	2067.0	2099.6	2132.1	2182.4	2227.1	2271.9	2314.0	2345.2	2383.2	2432.1	2495.9
25°	1919.1	1953.0	1993.7	2052.1	2109.1	2174.2	2236.6	2299.1	2372.4	2456.5	2555.6
27.5°	1744.0	1782.0	1834.9	1905.5	1970.6	2037.1	2134.9	2233.9	2353.4	2461.9	2574.6
30°	1570.3	1619.1	1676.1	1746.7	1811.8	1906.8	2004.6	2126.7	2252.9	2375.1	2509.4
32.5°	1383.0	1444.0	1514.6	1573.0	1646.3	1742.6	1840.3	1970.6	2105.0	2248.9	2396.8
35°	1202.5	1260.8	1316.5	1381.6	1454.9	1545.8	1640.8	1765.7	1935.4	2088.7	2265.1
37.5°	1019.2	1073.5	1112.9	1164.5	1228.3	1328.7	1430.5	1574.3	1734.5	1923.1	2099.6
40°	859.1	903.9	948.7	989.4	1043.7	1138.7	1247.3	1388.4	1545.8	1729.1	1925.9
42.5°	731.5	765.5	814.3	863.2	909.3	990.7	1092.5	1231.0	1387.0	1574.3	1771.1
45°	624.3	647.4	686.7	727.5	784.5	852.3	950.0	1091.2	1250.0	1438.6	1646.3
47.5°	546.9	557.8	584.9	627.0	680.0	746.5	830.6	958.2	1112.9	1302.9	1521.4
50°	494.0	506.2	519.8	555.1	602.6	670.5	739.7	851.0	992.1	1178.0	1395.2
52.5°	457.4	462.8	468.2	489.9	533.4	590.4	663.7	747.8	890.3	1068.1	1263.5
55°	435.7	437.0	441.1	451.9	484.5	537.4	601.2	681.3	792.6	960.9	1160.4
57.5°	409.9	412.6	416.7	423.4	443.8	491.3	545.6	610.7	703.0	844.2	1035.5
60°	385.4	392.2	399.0	403.1	413.9	442.4	488.6	540.2	614.8	720.7	872.7
62.5°	359.7	367.8	373.2	377.3	381.4	399.0	432.9	466.9	513.0	582.2	696.2
65°	336.6	342.0	346.1	348.8	351.5	356.9	371.9	385.4	399.0	441.1	523.9
67.5°	310.8	313.5	314.9	316.2	314.9	314.9	316.2	321.7	327.1	343.4	382.7
70°	280.9	285.0	285.0	286.4	286.4	282.3	282.3	282.3	282.3	286.4	308.1
72.5°	252.4	257.9	257.9	259.2	257.9	256.5	256.5	256.5	260.6	263.3	271.4
75°	225.3	230.7	229.4	230.7	232.1	232.1	234.8	236.2	240.2	241.6	247.0
77.5°	198.1	202.2	203.6	202.2	204.9	207.6	213.1	215.8	217.2	218.5	219.9
80°	172.4	175.1	173.7	169.6	176.4	180.5	188.6	198.1	195.4	196.8	199.5
82.5°	142.5	138.4	135.7	138.4	142.5	147.9	156.1	168.3	169.6	176.4	175.1
85°	109.9	97.7	96.4	103.1	101.8	108.6	122.1	131.6	139.8	146.6	139.8
87.5°	65.1	58.4	48.9	46.1	50.2	66.5	69.2	84.1	90.9	93.6	84.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9
2.5°	2330.3	2337.1	2337.1	2339.8	2343.9	2345.2	2350.7	2360.2	2361.5	2361.5	2365.6
5°	2373.7	2380.5	2380.5	2385.9	2387.3	2394.1	2400.9	2411.7	2417.2	2415.8	2433.4
7.5°	2444.3	2438.9	2434.8	2442.9	2447.0	2455.2	2468.7	2478.2	2487.7	2502.7	2527.1
10°	2504.0	2495.9	2491.8	2497.2	2499.9	2509.4	2517.6	2531.2	2554.2	2577.3	2607.2
12.5°	2552.9	2543.4	2532.5	2535.2	2539.3	2551.5	2565.1	2582.7	2616.7	2646.5	2691.3
15°	2593.6	2580.0	2569.2	2574.6	2584.1	2600.4	2623.4	2654.7	2710.3	2761.9	2821.6
17.5°	2632.9	2630.2	2626.2	2643.8	2650.6	2688.6	2722.5	2779.5	2855.5	2932.9	3018.4
20°	2670.9	2700.8	2715.7	2751.0	2772.7	2824.3	2875.9	2945.1	3041.5	3147.3	3264.0
22.5°	2723.9	2805.3	2855.5	2927.5	2964.1	3019.7	3095.7	3186.7	3293.9	3429.6	3578.9
25°	2850.1	2969.5	3070.0	3182.6	3274.9	3360.4	3451.3	3561.3	3716.0	3839.5	4034.9
27.5°	2905.7	3074.0	3224.7	3383.5	3521.9	3653.6	3797.4	3930.4	4113.6	4280.6	4516.7
30°	2852.8	3042.8	3238.3	3445.9	3648.1	3847.6	4056.6	4260.2	4471.9	4705.4	4956.5
32.5°	2755.1	2968.2	3188.0	3432.3	3683.4	3942.6	4214.1	4509.9	4808.5	5099.0	5355.5
35°	2656.0	2885.4	3129.7	3409.3	3705.1	4026.8	4363.4	4737.9	5132.9	5500.7	5835.9
37.5°	2512.2	2764.6	3044.2	3367.2	3718.7	4115.0	4547.9	5009.4	5508.8	6015.1	6454.8
40°	2338.4	2605.8	2911.2	3283.0	3705.1	4205.9	4769.2	5360.9	6002.8	6620.4	7160.5
42.5°	2179.6	2440.2	2765.9	3170.4	3669.8	4286.0	4979.5	5716.5	6476.5	7167.3	7873.0
45°	2039.9	2327.6	2654.7	3091.7	3652.2	4353.9	5135.6	5982.5	6852.4	7674.9	8508.2
47.5°	1912.3	2210.9	2577.3	3048.2	3644.1	4394.6	5244.2	6156.2	7119.8	8064.4	9032.1
50°	1780.6	2071.1	2463.3	3000.7	3623.7	4393.2	5301.2	6274.3	7307.1	8367.1	9393.1
52.5°	1639.5	1931.3	2324.9	2913.9	3580.3	4368.8	5316.1	6354.4	7455.0	8553.0	9699.8
55°	1510.6	1783.3	2176.9	2768.7	3489.3	4309.1	5282.2	6388.3	7559.5	8737.6	9915.6
57.5°	1362.6	1646.3	2020.9	2569.2	3318.3	4203.2	5185.8	6340.8	7589.4	8861.1	10086.6
60°	1159.0	1437.3	1822.7	2333.0	3051.0	3979.3	5006.7	6196.9	7494.4	8882.8	10208.8
62.5°	925.6	1165.8	1537.7	2007.3	2675.0	3627.8	4675.5	5873.9	7198.5	8679.2	10146.3
65°	688.1	848.2	1168.5	1581.1	2239.4	3098.5	4142.1	5332.4	6620.4	8113.3	9754.1
67.5°	479.1	594.4	791.2	1098.0	1628.6	2392.7	3380.8	4486.9	5726.0	7065.5	8939.8
70°	362.4	415.3	522.5	693.5	1054.5	1630.0	2457.9	3443.2	4592.7	5883.4	7649.1
72.5°	309.4	336.6	396.3	475.0	646.0	990.7	1543.1	2369.7	3388.9	4439.4	5868.5
75°	278.2	301.3	339.3	389.5	457.4	601.2	905.2	1499.7	2244.8	2973.6	4094.6
77.5°	252.4	272.8	306.7	332.5	369.2	432.9	576.8	897.1	1345.0	1837.6	2540.7
80°	225.3	237.5	268.7	294.5	323.0	359.7	413.9	563.2	772.2	1088.5	1498.3
82.5°	192.7	202.2	225.3	260.6	282.3	297.2	313.5	373.2	462.8	590.4	832.0
85°	149.3	156.1	176.4	202.2	211.7	213.1	215.8	232.1	287.7	442.4	716.6
87.5°	76.0	84.1	105.9	114.0	96.4	104.5	105.9	112.6	149.3	242.9	247.0
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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REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	0°
2.5°	2365.6	2369.7	2379.2	2377.8	2384.6	2384.6	2384.6	2391.4	2387.3	2391.4	2398.2	2.5°
5°	2433.4	2440.2	2453.8	2453.8	2455.2	2451.1	2459.2	2464.7	2457.9	2455.2	2456.5	5°
7.5°	2532.5	2543.4	2554.2	2565.1	2573.2	2569.2	2570.5	2558.3	2555.6	2546.1	2533.9	7.5°
10°	2628.9	2658.7	2679.1	2698.1	2699.4	2695.4	2696.7	2676.4	2672.3	2653.3	2641.1	10°
12.5°	2727.9	2765.9	2798.5	2818.9	2831.1	2833.8	2835.2	2835.2	2816.2	2799.9	2771.4	12.5°
15°	2874.5	2941.0	2991.2	3013.0	3030.6	3046.9	3051.0	3056.4	3041.5	3019.7	3015.7	15°
17.5°	3106.6	3169.0	3235.5	3293.9	3333.3	3336.0	3369.9	3367.2	3398.4	3374.0	3367.2	17.5°
20°	3382.1	3517.8	3587.0	3664.4	3709.2	3730.9	3809.6	3785.2	3808.3	3847.6	3808.3	20°
22.5°	3726.8	3899.2	3999.6	4105.5	4178.8	4231.7	4288.7	4333.5	4395.9	4425.8	4398.6	22.5°
25°	4184.2	4381.0	4500.4	4647.0	4763.7	4858.7	4957.8	5077.2	5075.9	5147.8	5198.0	25°
27.5°	4709.4	4960.5	5134.2	5392.1	5492.5	5652.7	5822.3	6006.9	6039.5	6133.1	6180.6	27.5°
30°	5203.5	5514.3	5859.0	6165.7	6513.1	6750.7	6947.4	7077.7	7274.5	7225.7	7198.5	30°
32.5°	5659.5	6073.4	6564.7	7068.2	7619.3	7995.2	8342.6	8504.1	8626.3	8367.1	8023.7	32.5°
35°	6251.2	6746.6	7308.5	7930.1	8630.4	9163.7	9522.0	9572.2	9503.0	9170.5	8601.9	35°
37.5°	6984.1	7503.9	8143.1	8800.0	9543.7	10044.6	10453.1	10526.4	10343.1	9750.0	9152.9	37.5°
40°	7707.5	8316.8	9010.4	9788.0	10558.9	11109.9	11519.8	11541.5	11242.9	10549.4	9850.5	40°
42.5°	8498.7	9165.1	9937.3	10799.1	11595.8	12153.6	12449.5	12543.1	12121.0	11232.1	10561.6	42.5°
45°	9181.4	9978.0	10838.5	11754.6	12587.9	13117.2	13418.5	13388.7	12878.4	12000.3	11214.4	45°
47.5°	9846.4	10723.1	11629.7	12602.9	13430.7	13965.5	14274.9	14247.8	13600.4	12589.3	11724.7	47.5°
50°	10438.1	11389.5	12358.6	13398.2	14223.3	14713.3	15091.9	14972.5	14154.1	13062.9	12053.2	50°
52.5°	10849.4	11910.7	12923.1	14046.9	14896.5	15360.7	15842.5	15458.4	14481.2	13353.4	12229.6	52.5°
55°	11109.9	12269.0	13324.9	14568.1	15402.7	15957.8	16268.6	15723.0	14607.4	13433.4	12290.7	55°
57.5°	11286.4	12465.8	13561.0	14869.4	15858.7	16324.3	16400.3	15732.5	14526.0	13307.2	12229.6	57.5°
60°	11373.2	12524.1	13668.2	15081.1	16179.0	16434.2	16295.8	15512.7	14245.0	12936.7	11836.0	60°
62.5°	11363.7	12450.8	13612.6	15151.6	16242.8	16275.4	15960.5	15138.1	13728.0	12159.0	11181.9	62.5°
65°	11122.2	12183.5	13299.1	14889.7	15945.6	15805.8	15409.5	14435.1	12722.3	11143.9	10649.9	65°
67.5°	10425.9	11443.8	12479.3	14032.0	15108.2	14972.5	14372.6	13053.4	11553.7	10245.4	9979.4	67.5°
70°	9261.5	10124.6	11033.9	12397.9	13527.1	13343.9	12294.8	11492.7	10396.1	9207.2	9114.9	70°
72.5°	7742.8	8396.9	9056.5	10071.7	10849.4	10474.8	9815.2	9773.1	8886.9	7978.9	7997.9	72.5°
75°	6055.8	6547.1	6855.2	7452.3	7969.4	7634.2	7673.5	7907.0	7615.2	6899.9	6667.9	75°
77.5°	4387.8	4858.7	4956.5	5310.7	5674.4	6055.8	6560.6	7110.3	7202.6	6800.9	5959.4	77.5°
80°	2871.8	3390.3	3197.5	3323.8	3835.4	4531.7	5453.2	6358.4	6669.2	6308.2	5272.7	80°
82.5°	1693.8	2419.9	2113.1	2328.9	2653.3	3260.0	3896.5	4579.2	5099.0	4714.9	4404.1	82.5°
85°	1286.6	1908.2	2020.9	2282.8	2388.7	2414.4	2525.7	2748.3	3017.0	3117.5	3109.3	85°
87.5°	670.5	1483.4	1665.3	1540.4	1437.3	1245.9	971.7	1046.4	956.8	1308.3	1239.1	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°
2267.9	2267.9	2267.9	2267.9	2267.9	2267.9	2267.9
2399.5	2395.4	2398.2	2399.5	2399.5	2399.5	2402.2
2455.2	2444.3	2440.2	2440.2	2438.9	2434.8	2433.4
2514.9	2495.9	2489.1	2480.9	2474.2	2470.1	2463.3
2622.1	2605.8	2571.9	2552.9	2535.2	2523.0	2512.2
2765.9	2742.9	2710.3	2685.9	2658.7	2650.6	2637.0
2988.5	2968.2	2939.7	2912.5	2896.2	2867.7	2847.4
3336.0	3295.3	3266.8	3231.5	3192.1	3133.7	3105.2
3793.3	3711.9	3654.9	3623.7	3545.0	3535.5	3466.3
4318.6	4294.1	4207.3	4169.3	4093.3	4063.4	3954.8
5104.4	5085.4	4907.6	4888.6	4771.9	4685.0	4516.7
6137.2	5981.1	5780.3	5640.5	5441.0	5217.0	4930.7
7039.7	6720.8	6414.1	6088.3	5812.8	5491.2	5166.8
7615.2	7187.7	6792.7	6458.9	6118.2	5735.5	5318.8
8120.1	7688.5	7258.2	6863.3	6450.7	5960.8	5446.4
8724.0	8295.1	7810.6	7255.5	6726.2	6126.3	5498.0
9342.9	8840.7	8235.4	7555.5	6890.4	6207.8	5488.5
9976.7	9334.7	8529.9	7755.0	6994.9	6220.0	5424.7
10491.1	9679.5	8748.4	7856.8	7016.7	6177.9	5344.6
10854.8	9900.7	8846.2	7892.0	6989.5	6111.4	5236.0
11062.4	10021.5	8870.6	7866.3	6933.9	6016.4	5118.0
11138.4	10058.1	8846.2	7813.3	6883.7	5914.6	5035.2
11130.3	10037.8	8756.6	7689.8	6749.3	5778.9	4933.4
10976.9	9849.1	8573.4	7541.9	6635.3	5716.5	4940.2
10716.4	9729.7	8519.1	7571.8	6695.0	5850.8	5154.6
10598.3	9968.5	8824.4	7870.3	7001.7	6234.9	5597.0
10531.8	10356.7	9261.5	8192.0	7365.5	6700.4	6125.0
10260.3	10468.0	9509.8	8375.2	7689.8	7167.3	6652.9
9822.0	10208.8	9321.2	8339.9	7869.0	7525.6	6842.9
8907.2	9315.7	8481.1	7820.1	7645.0	7531.0	6557.9
7216.2	7427.9	6952.9	6803.6	6868.7	6870.1	5500.7
5321.5	5194.0	4979.5	4990.4	5428.8	5360.9	3920.9
4344.4	3555.8	3251.8	3367.2	3908.7	3616.9	2463.3
4043.1	3171.7	2618.0	2645.2	2951.9	2330.3	1483.4
3269.5	2890.8	2318.1	2080.6	2019.5	1552.6	1007.0
1368.0	1258.1	936.5	844.2	692.2	423.4	192.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)