

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: P159173

Luminaire Tested: **VST-F11-LED-E-U-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159173
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-F11-LED-E-U-SLR-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (77) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20595.6 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 282.7
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



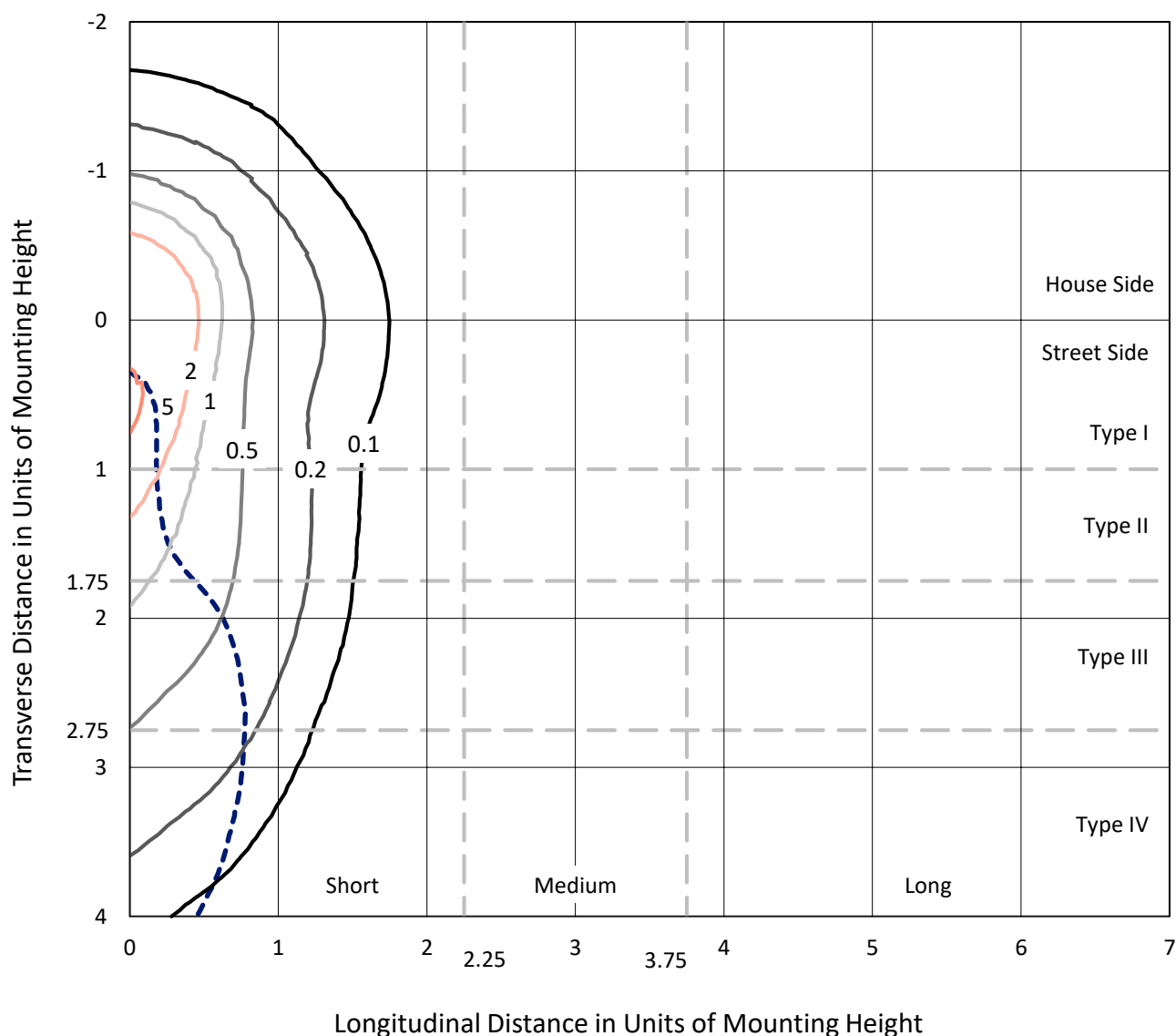
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

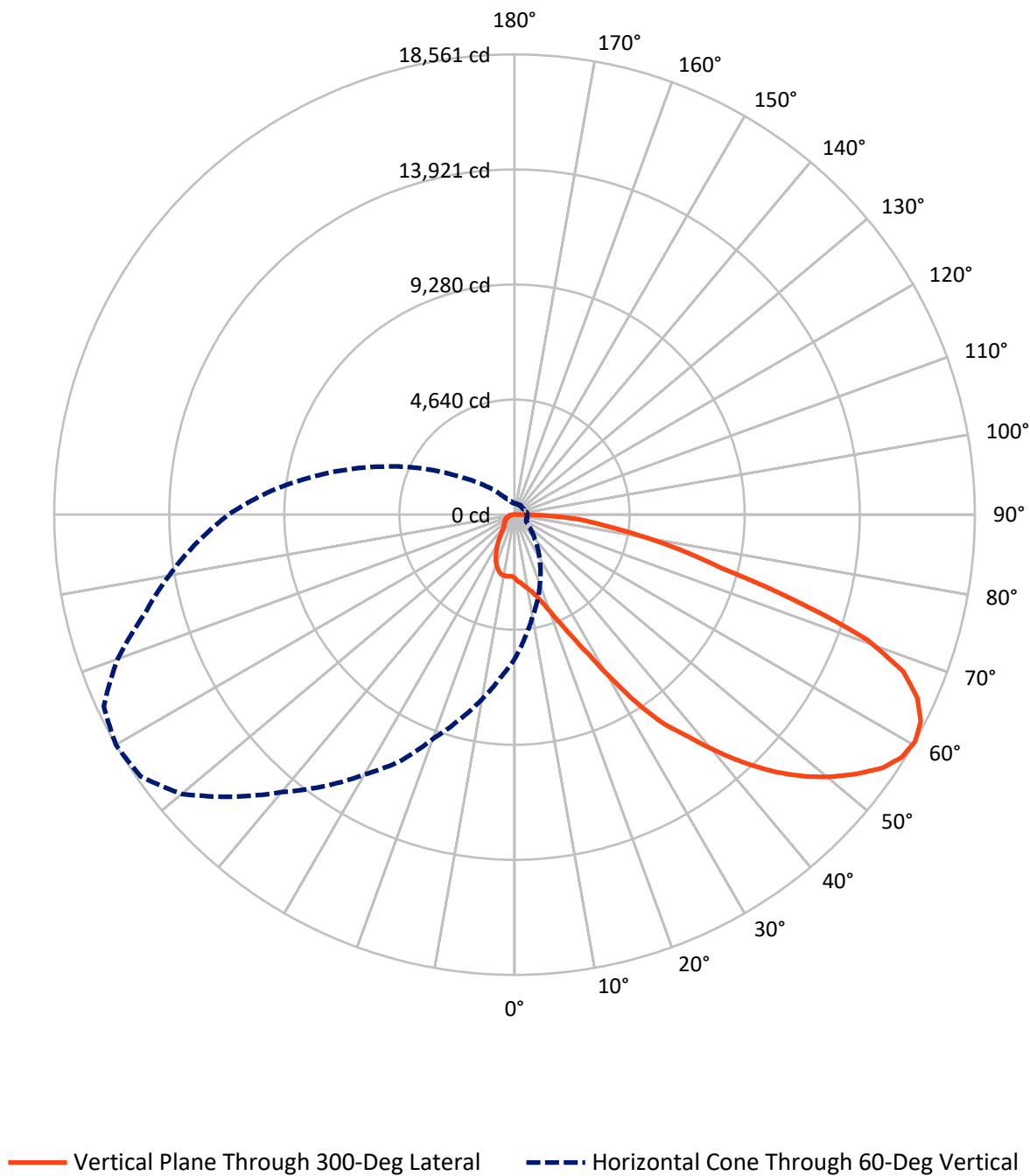


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4637.5	0.0	4637.5
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	15958.1	0.0	15958.1
	% Fixture	77.5	0.0	77.5
Total	Lumens	20595.6	0.0	20595.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.7	1.2
10°-20°	815.9	4.0
20°-30°	1548.2	7.5
30°-40°	2438.2	11.8
40°-50°	3403.1	16.5
50°-60°	4208.9	20.4
60°-70°	4362.7	21.2
70°-80°	2745.2	13.3
80°-90°	820.6	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°	20595.6	100.0
0°-180°	20595.6	100.0

Coefficient of Utilization



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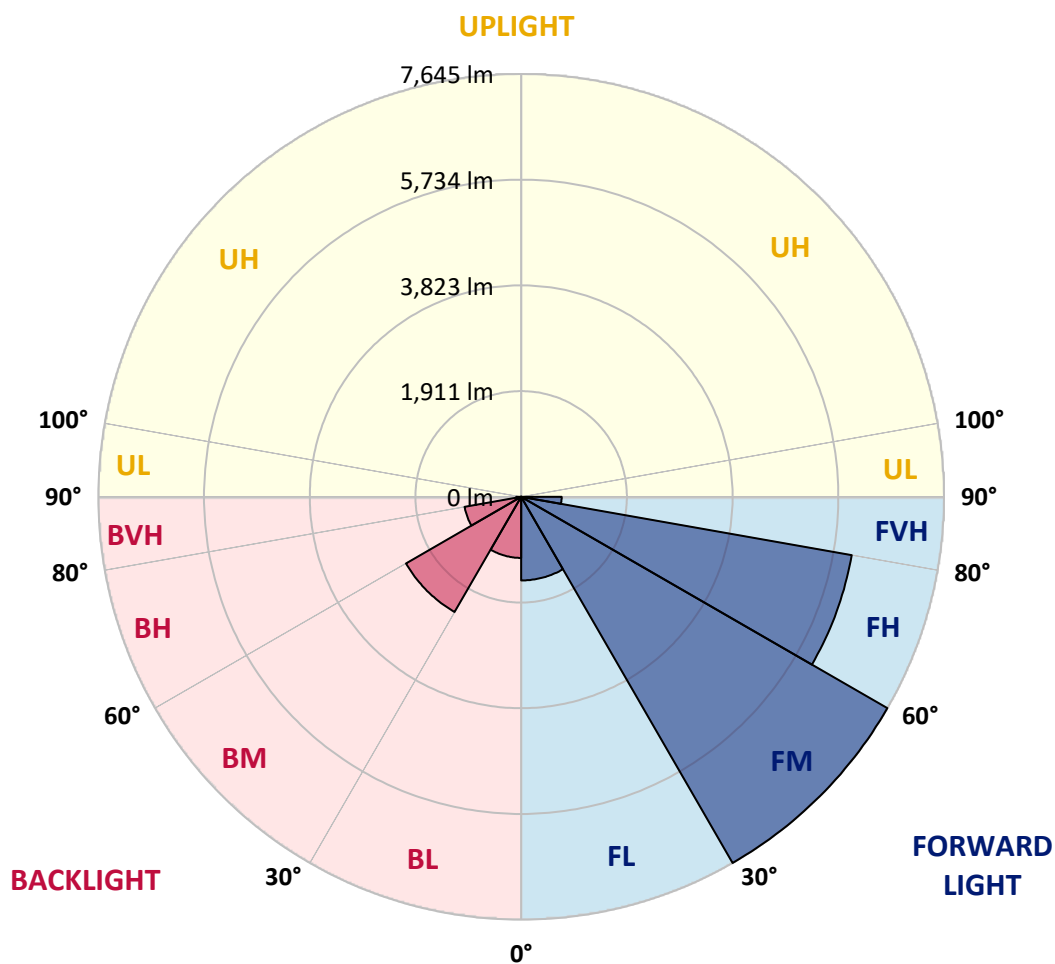
CATALOG NUMBER: VST-F11-LED-E-U-SLR-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1512.0	7.3			
FM	(30°-60°)	7645.4	37.1			
FH	(60°-80°)	6069.3	29.5			G3/7500
FVH	(80°-90°)	731.3	3.6			G4/750
BL	(0°-30°)	1104.8	5.4	B3/2500		
BM	(30°-60°)	2404.8	11.7	B2/2500		
BH	(60°-80°)	1038.6	5.0	B3/2500		G3/2500
BVH	(80°-90°)	89.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3
2.5°	2713.1	2550.6	2553.7	2549.1	2549.1	2546.0	2549.1	2546.0	2542.9	2542.9	2544.5
5°	2748.3	2569.0	2569.0	2564.4	2561.3	2558.3	2561.3	2558.3	2556.7	2553.7	2555.2
7.5°	2782.1	2579.7	2573.6	2567.5	2559.8	2562.9	2562.9	2561.3	2562.9	2561.3	2564.4
10°	2837.2	2615.0	2599.7	2585.9	2584.3	2581.3	2581.3	2576.7	2576.7	2573.6	2575.1
12.5°	2978.3	2723.8	2707.0	2682.4	2677.8	2664.0	2656.4	2647.2	2631.8	2618.1	2607.3
15°	3215.9	2904.7	2872.5	2851.0	2841.8	2814.3	2771.3	2737.6	2693.2	2654.8	2615.0
17.5°	3507.1	3146.9	3108.6	3081.0	3035.0	2959.9	2887.8	2805.1	2719.2	2641.0	2569.0
20°	3914.8	3494.8	3419.7	3353.8	3238.8	3110.1	2975.2	2831.1	2699.3	2576.7	2470.9
22.5°	4466.6	3943.9	3804.5	3628.2	3415.1	3197.5	2982.9	2783.6	2607.3	2447.9	2306.9
25°	5101.2	4373.1	4121.7	3818.3	3491.8	3191.3	2909.3	2653.3	2447.9	2242.5	2089.2
27.5°	5568.7	4731.8	4360.9	3962.3	3545.4	3162.2	2815.8	2506.2	2257.8	2047.8	1862.4
30°	5835.4	4937.2	4491.2	4023.6	3554.6	3113.2	2697.8	2339.1	2052.4	1802.6	1624.8
32.5°	6007.1	5047.6	4505.0	3962.3	3444.2	2967.5	2518.4	2145.9	1834.8	1568.1	1379.5
35°	6151.2	5092.0	4440.6	3825.9	3235.8	2746.8	2288.5	1916.0	1586.5	1341.2	1148.1
37.5°	6209.4	5084.4	4337.9	3643.5	3031.9	2506.2	2054.0	1672.3	1378.0	1161.9	996.3
40°	6198.7	5013.8	4198.4	3448.8	2792.8	2254.8	1805.7	1470.0	1230.9	1048.4	927.4
42.5°	6126.7	4920.3	4043.6	3251.1	2573.6	2046.3	1637.0	1339.7	1146.5	1008.6	902.8
45°	6036.2	4808.5	3902.6	3070.2	2400.4	1897.6	1538.9	1302.9	1135.8	1004.0	890.6
47.5°	5913.6	4684.3	3760.0	2941.5	2308.4	1853.2	1537.4	1324.4	1145.0	993.3	869.1
50°	5780.3	4593.9	3681.8	2886.3	2297.7	1880.8	1591.1	1358.1	1151.1	982.5	840.0
52.5°	5686.8	4554.0	3680.3	2906.2	2354.4	1957.4	1653.9	1401.0	1174.1	988.7	833.9
55°	5571.8	4547.9	3720.1	2992.1	2478.6	2087.7	1753.5	1474.6	1221.7	1011.7	838.5
57.5°	5579.5	4669.0	3875.0	3203.6	2702.4	2264.0	1880.8	1565.0	1267.6	1025.5	830.8
60°	5821.6	4951.0	4180.0	3565.3	2995.1	2470.9	2011.1	1614.1	1264.6	994.8	794.0
62.5°	6321.3	5374.1	4636.8	3989.9	3292.5	2630.3	2058.6	1600.3	1218.6	928.9	734.2
65°	6917.6	5869.2	5081.3	4319.5	3473.4	2667.1	2017.2	1523.6	1126.6	843.1	662.2
67.5°	7513.9	6220.2	5337.3	4413.0	3399.8	2518.4	1863.9	1351.9	970.3	726.6	580.9
70°	7728.5	6292.2	5317.3	4203.0	3065.6	2149.0	1534.4	1088.3	778.7	594.7	489.0
72.5°	7406.6	5841.6	4727.2	3571.5	2492.4	1666.2	1125.1	803.2	594.7	466.0	398.5
75°	6212.5	4704.2	3737.0	2690.1	1799.5	1178.7	812.4	585.5	447.6	369.4	318.8
77.5°	4428.3	3275.6	2546.0	1767.3	1168.0	817.0	582.5	439.9	355.6	295.8	259.0
80°	2782.1	2011.1	1551.2	1060.7	728.1	554.9	418.5	347.9	286.6	240.7	216.1
82.5°	1675.4	1171.1	913.6	659.1	478.2	380.1	308.1	272.8	228.4	199.3	185.5
85°	1137.4	861.4	599.3	389.3	288.2	223.8	210.0	188.5	170.1	142.6	138.0
87.5°	217.7	308.1	268.2	159.4	105.8	90.4	79.7	76.6	69.0	55.2	62.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3
2.5°	2535.3	2532.2	2526.1	2526.1	2521.5	2512.3	2510.8	2504.6	2497.0	2498.5	2497.0
5°	2544.5	2538.3	2530.7	2527.6	2521.5	2512.3	2507.7	2500.0	2492.4	2492.4	2492.4
7.5°	2555.2	2547.5	2541.4	2530.7	2518.4	2509.2	2497.0	2487.8	2483.2	2481.6	2483.2
10°	2564.4	2559.8	2550.6	2535.3	2518.4	2500.0	2487.8	2475.5	2463.2	2464.8	2466.3
12.5°	2584.3	2569.0	2544.5	2521.5	2495.4	2472.4	2451.0	2435.6	2420.3	2420.3	2421.9
15°	2570.5	2526.1	2492.4	2447.9	2418.8	2382.0	2357.5	2343.7	2334.5	2331.4	2332.9
17.5°	2489.3	2435.6	2385.1	2345.2	2305.4	2276.2	2265.5	2256.3	2244.0	2250.2	2244.0
20°	2366.7	2300.8	2228.7	2181.2	2133.7	2113.8	2095.4	2086.2	2078.5	2106.1	2106.1
22.5°	2190.4	2110.7	2037.1	1978.9	1925.2	1903.8	1885.4	1874.6	1879.2	1913.0	1916.0
25°	1968.1	1871.6	1775.0	1739.7	1686.1	1669.2	1658.5	1657.0	1661.6	1695.3	1703.0
27.5°	1732.1	1630.9	1548.1	1466.9	1442.4	1428.6	1408.7	1431.7	1436.3	1473.0	1488.4
30°	1480.7	1371.9	1284.5	1230.9	1178.7	1186.4	1169.5	1197.1	1209.4	1247.7	1260.0
32.5°	1223.2	1120.5	1033.1	979.5	942.7	947.3	935.0	959.5	971.8	1017.8	1040.8
35°	1011.7	924.3	853.8	807.8	790.9	774.1	771.0	774.1	786.3	821.6	863.0
37.5°	890.6	818.5	767.9	734.2	711.2	700.5	694.4	694.4	694.4	702.0	722.0
40°	838.5	774.1	729.6	697.4	682.1	676.0	671.4	666.8	659.1	656.0	657.6
42.5°	815.5	741.9	694.4	669.8	660.6	660.6	660.6	657.6	649.9	642.3	634.6
45°	792.5	712.8	665.2	648.4	643.8	645.3	645.3	645.3	639.2	630.0	616.2
47.5°	763.3	680.6	633.1	622.3	622.3	626.9	628.5	628.5	622.3	613.1	602.4
50°	728.1	639.2	596.3	587.1	582.5	582.5	582.5	582.5	577.9	571.7	564.1
52.5°	709.7	616.2	571.7	562.5	562.5	557.9	556.4	551.8	547.2	542.6	531.9
55°	703.6	607.0	561.0	553.3	553.3	548.7	544.2	539.6	531.9	524.2	513.5
57.5°	686.7	587.1	547.2	541.1	541.1	538.0	533.4	528.8	521.2	510.4	496.6
60°	648.4	553.3	519.6	518.1	518.1	516.6	513.5	513.5	505.8	495.1	478.2
62.5°	599.3	518.1	485.9	485.9	484.4	482.8	476.7	475.2	466.0	452.2	436.9
65°	551.8	487.4	466.0	459.8	456.8	452.2	449.1	441.5	433.8	421.5	406.2
67.5°	492.0	441.5	427.7	421.5	415.4	410.8	406.2	401.6	392.4	383.2	370.9
70°	427.7	390.9	383.2	381.7	374.0	369.4	367.9	363.3	354.1	344.9	329.6
72.5°	366.3	344.9	338.8	338.8	329.6	323.4	320.4	318.8	312.7	305.0	291.2
75°	295.8	280.5	279.0	286.6	286.6	282.0	279.0	282.0	272.8	268.2	254.4
77.5°	242.2	234.5	229.9	233.0	242.2	237.6	231.5	231.5	231.5	223.8	219.2
80°	205.4	199.3	194.7	197.7	196.2	194.7	191.6	185.5	185.5	185.5	183.9
82.5°	185.5	183.9	167.1	167.1	160.9	156.3	153.3	150.2	147.2	147.2	154.8
85°	139.5	144.1	134.9	133.4	125.7	119.6	113.4	110.4	107.3	111.9	127.2
87.5°	67.4	67.4	64.4	72.0	65.9	62.8	58.2	55.2	58.2	72.0	85.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3
2.5°	2493.9	2492.4	2490.8	2487.8	2481.6	2480.1	2477.0	2477.0	2475.5	2472.4	2475.5
5°	2489.3	2492.4	2492.4	2490.8	2486.2	2489.3	2489.3	2493.9	2493.9	2497.0	2504.6
7.5°	2483.2	2490.8	2497.0	2501.6	2507.7	2512.3	2521.5	2535.3	2541.4	2552.1	2556.7
10°	2470.9	2484.7	2495.4	2509.2	2524.6	2541.4	2555.2	2576.7	2584.3	2599.7	2607.3
12.5°	2435.6	2458.6	2477.0	2504.6	2530.7	2556.7	2581.3	2608.9	2622.7	2639.5	2650.2
15°	2349.8	2375.9	2401.9	2426.5	2472.4	2523.0	2562.9	2599.7	2619.6	2641.0	2651.8
17.5°	2247.1	2264.0	2285.4	2317.6	2362.1	2406.5	2470.9	2523.0	2553.7	2578.2	2581.3
20°	2127.6	2152.1	2167.4	2179.7	2214.9	2245.6	2314.6	2374.3	2414.2	2443.3	2451.0
22.5°	1945.1	1971.2	1997.3	2006.5	2034.0	2073.9	2112.2	2176.6	2233.3	2276.2	2302.3
25°	1736.7	1761.2	1796.5	1824.1	1830.2	1862.4	1900.7	1974.3	2032.5	2101.5	2132.2
27.5°	1528.2	1549.7	1588.0	1603.3	1621.7	1653.9	1684.6	1745.9	1807.2	1886.9	1920.6
30°	1284.5	1330.5	1374.9	1404.1	1419.4	1457.7	1479.2	1538.9	1595.7	1653.9	1703.0
32.5°	1076.0	1117.4	1168.0	1204.8	1223.2	1252.3	1286.0	1336.6	1381.1	1437.8	1494.5
35°	884.4	941.2	974.9	1007.1	1054.6	1068.4	1102.1	1148.1	1174.1	1235.5	1299.8
37.5°	749.5	783.3	817.0	849.2	889.0	907.4	939.6	977.9	1008.6	1045.4	1103.6
40°	666.8	685.2	709.7	731.2	760.3	783.3	800.1	832.3	855.3	892.1	933.5
42.5°	628.5	633.1	636.1	651.4	666.8	682.1	700.5	714.3	741.9	769.5	795.5
45°	607.0	597.8	593.2	594.7	600.9	610.1	625.4	640.7	659.1	676.0	691.3
47.5°	588.6	576.3	562.5	554.9	556.4	559.5	571.7	584.0	593.2	607.0	613.1
50°	545.7	535.0	522.7	512.0	513.5	515.0	525.8	535.0	541.1	545.7	553.3
52.5°	518.1	502.8	492.0	481.3	479.8	484.4	493.6	502.8	505.8	508.9	510.4
55°	498.2	482.8	469.0	458.3	453.7	464.4	467.5	479.8	484.4	484.4	485.9
57.5°	482.8	464.4	450.6	439.9	432.3	439.9	447.6	461.4	462.9	459.8	459.8
60°	459.8	446.1	432.3	421.5	413.9	420.0	426.1	441.5	441.5	433.8	432.3
62.5°	420.0	412.3	403.1	398.5	397.0	403.1	407.7	420.0	415.4	406.2	403.1
65°	390.9	384.7	375.5	372.5	370.9	380.1	381.7	389.3	383.2	378.6	377.1
67.5°	355.6	351.0	346.4	344.9	340.3	340.3	343.4	347.9	344.9	344.9	346.4
70°	315.8	309.6	305.0	306.6	303.5	303.5	305.0	308.1	306.6	309.6	312.7
72.5°	279.0	271.3	269.8	269.8	266.7	268.2	268.2	269.8	272.8	274.4	282.0
75°	243.7	236.1	236.1	234.5	234.5	234.5	236.1	239.1	242.2	243.7	246.8
77.5°	211.5	206.9	208.5	206.9	206.9	206.9	206.9	211.5	213.1	214.6	219.2
80°	182.4	182.4	183.9	183.9	182.4	180.9	182.4	185.5	187.0	188.5	190.1
82.5°	165.5	167.1	167.1	167.1	159.4	156.3	160.9	164.0	167.1	168.6	171.7
85°	142.6	136.4	142.6	141.0	130.3	128.8	128.8	130.3	133.4	130.3	130.3
87.5°	92.0	82.8	87.4	87.4	76.6	62.8	79.7	85.8	76.6	81.2	81.2
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3
2.5°	2480.1	2477.0	2478.6	2478.6	2481.6	2477.0	2483.2	2489.3	2490.8	2490.8	2492.4
5°	2512.3	2509.2	2520.0	2515.4	2526.1	2524.6	2532.2	2538.3	2541.4	2541.4	2541.4
7.5°	2562.9	2573.6	2579.7	2596.6	2598.1	2607.3	2615.0	2622.7	2619.6	2621.1	2619.6
10°	2619.6	2633.4	2648.7	2665.6	2667.1	2677.8	2690.1	2697.8	2694.7	2693.2	2688.6
12.5°	2668.6	2677.8	2696.2	2713.1	2722.3	2739.1	2751.4	2757.5	2757.5	2752.9	2748.3
15°	2665.6	2679.4	2699.3	2723.8	2740.7	2765.2	2786.7	2800.5	2802.0	2797.4	2795.9
17.5°	2598.1	2618.1	2636.4	2670.2	2700.8	2734.5	2769.8	2789.7	2808.1	2818.9	2825.0
20°	2477.0	2501.6	2527.6	2572.1	2613.5	2657.9	2699.3	2728.4	2756.0	2788.2	2826.5
22.5°	2334.5	2371.3	2408.1	2464.8	2515.4	2565.9	2613.5	2648.7	2691.6	2746.8	2818.9
25°	2167.4	2205.7	2251.7	2317.6	2382.0	2455.6	2526.1	2596.6	2679.4	2774.4	2886.3
27.5°	1969.7	2012.6	2072.4	2152.1	2225.7	2300.8	2411.1	2523.0	2657.9	2780.5	2907.8
30°	1773.5	1828.7	1893.0	1972.7	2046.3	2153.6	2264.0	2401.9	2544.5	2682.4	2834.2
32.5°	1561.9	1630.9	1710.6	1776.5	1859.3	1968.1	2078.5	2225.7	2377.4	2539.9	2707.0
35°	1358.1	1424.0	1486.8	1560.4	1643.2	1745.9	1853.2	1994.2	2185.8	2359.0	2558.3
37.5°	1151.1	1212.5	1256.9	1315.2	1387.2	1500.6	1615.6	1778.1	1958.9	2172.0	2371.3
40°	970.3	1020.9	1071.4	1117.4	1178.7	1286.0	1408.7	1568.1	1745.9	1952.8	2175.1
42.5°	826.2	864.5	919.7	974.9	1027.0	1119.0	1233.9	1390.3	1566.5	1778.1	2000.3
45°	705.1	731.2	775.6	821.6	886.0	962.6	1073.0	1232.4	1411.7	1624.8	1859.3
47.5°	617.7	630.0	660.6	708.2	767.9	843.1	938.1	1082.2	1256.9	1471.5	1718.3
50°	557.9	571.7	587.1	626.9	680.6	757.2	835.4	961.1	1120.5	1330.5	1575.7
52.5°	516.6	522.7	528.8	553.3	602.4	666.8	749.5	844.6	1005.5	1206.3	1427.1
55°	492.0	493.6	498.2	510.4	547.2	607.0	679.0	769.5	895.2	1085.2	1310.6
57.5°	462.9	466.0	470.6	478.2	501.2	554.9	616.2	689.8	794.0	953.4	1169.5
60°	435.3	443.0	450.6	455.2	467.5	499.7	551.8	610.1	694.4	813.9	985.6
62.5°	406.2	415.4	421.5	426.1	430.7	450.6	489.0	527.3	579.4	657.6	786.3
65°	380.1	386.3	390.9	393.9	397.0	403.1	420.0	435.3	450.6	498.2	591.7
67.5°	351.0	354.1	355.6	357.1	355.6	355.6	357.1	363.3	369.4	387.8	432.3
70°	317.3	321.9	321.9	323.4	323.4	318.8	318.8	318.8	318.8	323.4	347.9
72.5°	285.1	291.2	291.2	292.8	291.2	289.7	289.7	289.7	294.3	297.4	306.6
75°	254.4	260.6	259.0	260.6	262.1	262.1	265.2	266.7	271.3	272.8	279.0
77.5°	223.8	228.4	229.9	228.4	231.5	234.5	240.7	243.7	245.3	246.8	248.3
80°	194.7	197.7	196.2	191.6	199.3	203.9	213.1	223.8	220.7	222.3	225.3
82.5°	160.9	156.3	153.3	156.3	160.9	167.1	176.3	190.1	191.6	199.3	197.7
85°	124.2	110.4	108.8	116.5	115.0	122.6	138.0	148.7	157.9	165.5	157.9
87.5°	73.6	65.9	55.2	52.1	56.7	75.1	78.2	95.0	102.7	105.8	95.0
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3
2.5°	2631.8	2639.5	2639.5	2642.6	2647.2	2648.7	2654.8	2665.6	2667.1	2667.1	2671.7
5°	2680.9	2688.6	2688.6	2694.7	2696.2	2703.9	2711.6	2723.8	2729.9	2728.4	2748.3
7.5°	2760.6	2754.5	2749.9	2759.1	2763.7	2772.9	2788.2	2798.9	2809.7	2826.5	2854.1
10°	2828.0	2818.9	2814.3	2820.4	2823.5	2834.2	2843.4	2858.7	2884.8	2910.8	2944.5
12.5°	2883.2	2872.5	2860.2	2863.3	2867.9	2881.7	2897.0	2917.0	2955.3	2989.0	3039.6
15°	2929.2	2913.9	2901.6	2907.8	2918.5	2936.9	2962.9	2998.2	3061.0	3119.3	3186.7
17.5°	2973.7	2970.6	2966.0	2985.9	2993.6	3036.5	3074.8	3139.2	3225.0	3312.4	3409.0
20°	3016.6	3050.3	3067.2	3107.0	3131.5	3189.8	3248.0	3326.2	3435.0	3554.6	3686.4
22.5°	3076.4	3168.3	3225.0	3306.3	3347.7	3410.5	3496.4	3599.1	3720.1	3873.4	4042.0
25°	3218.9	3353.8	3467.2	3594.5	3698.7	3795.3	3898.0	4022.1	4196.9	4336.3	4557.1
27.5°	3281.8	3471.8	3642.0	3821.3	3977.7	4126.3	4288.8	4439.0	4646.0	4834.5	5101.2
30°	3222.0	3436.6	3657.3	3891.8	4120.2	4345.5	4581.6	4811.5	5050.6	5314.3	5597.9
32.5°	3111.6	3352.3	3600.6	3876.5	4160.1	4452.8	4759.4	5093.6	5430.8	5758.8	6048.5
35°	2999.7	3258.8	3534.7	3850.4	4184.6	4547.9	4928.0	5351.1	5797.1	6212.5	6591.1
37.5°	2837.2	3122.4	3438.1	3802.9	4199.9	4647.5	5136.5	5657.6	6221.7	6793.5	7290.1
40°	2641.0	2943.0	3287.9	3707.9	4184.6	4750.2	5386.3	6054.6	6779.7	7477.1	8087.1
42.5°	2461.7	2756.0	3123.9	3580.7	4144.7	4840.6	5623.9	6456.2	7314.6	8094.8	8891.9
45°	2303.8	2628.8	2998.2	3491.8	4124.8	4917.3	5800.2	6756.7	7739.2	8668.1	9609.2
47.5°	2159.7	2497.0	2910.8	3442.7	4115.6	4963.3	5922.8	6952.9	8041.2	9108.0	10200.9
50°	2011.1	2339.1	2782.1	3389.1	4092.6	4961.7	5987.2	7086.2	8252.7	9449.8	10608.6
52.5°	1851.6	2181.2	2625.7	3291.0	4043.6	4934.1	6004.0	7176.7	8419.8	9659.8	10955.1
55°	1706.0	2014.1	2458.6	3126.9	3940.9	4866.7	5965.7	7215.0	8537.8	9868.3	11198.8
57.5°	1538.9	1859.3	2282.4	2901.6	3747.7	4747.1	5856.9	7161.3	8571.5	10007.8	11391.9
60°	1309.0	1623.3	2058.6	2634.9	3445.8	4494.2	5654.6	6998.8	8464.2	10032.3	11529.9
62.5°	1045.4	1316.7	1736.7	2267.0	3021.2	4097.2	5280.6	6634.0	8130.1	9802.4	11459.3
65°	777.1	958.0	1319.8	1785.7	2529.2	3499.4	4678.2	6022.4	7477.1	9163.2	11016.4
67.5°	541.1	671.4	893.6	1240.0	1839.4	2702.4	3818.3	5067.5	6467.0	7979.9	10096.7
70°	409.3	469.0	590.1	783.3	1191.0	1840.9	2775.9	3888.8	5187.1	6644.8	8639.0
72.5°	349.5	380.1	447.6	536.5	729.6	1119.0	1742.8	2676.3	3827.4	5013.8	6627.9
75°	314.2	340.3	383.2	439.9	516.6	679.0	1022.4	1693.8	2535.3	3358.4	4624.5
77.5°	285.1	308.1	346.4	375.5	416.9	489.0	651.4	1013.2	1519.0	2075.4	2869.4
80°	254.4	268.2	303.5	332.6	364.8	406.2	467.5	636.1	872.2	1229.3	1692.2
82.5°	217.7	228.4	254.4	294.3	318.8	335.7	354.1	421.5	522.7	666.8	939.6
85°	168.6	176.3	199.3	228.4	239.1	240.7	243.7	262.1	325.0	499.7	809.3
87.5°	85.8	95.0	119.6	128.8	108.8	118.0	119.6	127.2	168.6	274.4	279.0
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°	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	0°
2.5°	2671.7	2676.3	2687.0	2685.5	2693.2	2693.2	2693.2	2700.8	2696.2	2700.8	2708.5	2.5°
5°	2748.3	2756.0	2771.3	2771.3	2772.9	2772.9	2777.5	2783.6	2775.9	2772.9	2774.4	5°
7.5°	2860.2	2872.5	2884.8	2897.0	2906.2	2901.6	2903.2	2889.4	2886.3	2875.6	2861.8	7.5°
10°	2969.1	3002.8	3025.8	3047.2	3048.8	3044.2	3045.7	3022.7	3018.1	2996.7	2982.9	10°
12.5°	3081.0	3123.9	3160.7	3183.7	3197.5	3200.5	3202.1	3202.1	3180.6	3162.2	3130.0	12.5°
15°	3246.5	3321.6	3378.3	3402.9	3422.8	3441.2	3445.8	3451.9	3435.0	3410.5	3405.9	15°
17.5°	3508.6	3579.1	3654.2	3720.1	3764.6	3767.7	3806.0	3802.9	3838.2	3810.6	3802.9	17.5°
20°	3819.8	3973.1	4051.2	4138.6	4189.2	4213.7	4302.6	4275.0	4301.1	4345.5	4301.1	20°
22.5°	4209.1	4403.8	4517.2	4636.8	4719.5	4779.3	4843.7	4894.3	4964.8	4998.5	4967.9	22.5°
25°	4725.7	4947.9	5082.8	5248.4	5380.2	5487.5	5599.4	5734.3	5732.7	5814.0	5870.7	25°
27.5°	5318.9	5602.5	5798.7	6089.9	6203.3	6384.2	6575.8	6784.3	6821.0	6926.8	6980.5	27.5°
30°	5876.8	6227.8	6617.2	6963.6	7356.0	7624.2	7846.5	7993.6	8215.9	8160.7	8130.1	30°
32.5°	6391.9	6859.4	7414.2	7982.9	8605.2	9029.8	9422.2	9604.6	9742.6	9449.8	9062.0	32.5°
35°	7060.2	7619.6	8254.2	8956.3	9747.2	10349.6	10754.3	10811.0	10732.8	10357.3	9715.0	35°
37.5°	7887.9	8475.0	9196.9	9938.8	10778.8	11344.4	11805.8	11888.5	11681.6	11011.8	10337.3	37.5°
40°	8704.9	9393.1	10176.4	11054.7	11925.3	12547.6	13010.6	13035.1	12697.9	11914.6	11125.2	40°
42.5°	9598.5	10351.1	11223.3	12196.6	13096.4	13726.4	14060.5	14166.3	13689.6	12685.6	11928.4	42.5°
45°	10369.5	11269.3	12241.1	13275.7	14216.9	14814.7	15155.0	15121.3	14544.9	13553.2	12665.7	45°
47.5°	11120.6	12110.8	13134.7	14233.7	15168.8	15772.7	16122.2	16091.5	15360.4	14218.4	13242.0	47.5°
50°	11788.9	12863.4	13957.8	15132.0	16063.9	16617.3	17044.9	16910.1	15985.8	14753.4	13613.0	50°
52.5°	12253.3	13452.0	14595.5	15864.7	16824.2	17348.4	17892.6	17458.8	16355.2	15081.4	13812.2	52.5°
55°	12547.6	13856.7	15049.2	16453.3	17396.0	18022.9	18373.9	17757.7	16497.7	15171.8	13881.2	55°
57.5°	12746.9	14078.9	15315.9	16793.6	17911.0	18436.7	18522.6	17768.4	16405.8	15029.3	13812.2	57.5°
60°	12845.0	14144.8	15437.0	17032.7	18272.7	18560.9	18404.5	17520.1	16088.5	14610.8	13367.7	60°
62.5°	12834.3	14062.1	15374.2	17112.4	18344.8	18381.6	18025.9	17097.1	15504.5	13732.5	12628.9	62.5°
65°	12561.4	13760.1	15020.1	16816.5	18009.1	17851.2	17403.6	16303.1	14368.6	12586.0	12028.0	65°
67.5°	11775.1	12924.7	14094.3	15847.8	17063.3	16910.1	16232.5	14742.6	13048.9	11571.2	11270.8	67.5°
70°	10460.0	11434.8	12461.8	14002.3	15277.6	15070.7	13885.8	12979.9	11741.4	10398.6	10294.4	70°
72.5°	8744.7	9483.5	10228.5	11375.0	12253.3	11830.3	11085.3	11037.8	10036.9	9011.4	9032.9	72.5°
75°	6839.4	7394.3	7742.3	8416.7	9000.7	8622.1	8666.6	8930.2	8600.6	7792.8	7530.7	75°
77.5°	4955.6	5487.5	5597.9	5997.9	6408.7	6839.4	7409.6	8030.4	8134.7	7681.0	6730.6	77.5°
80°	3243.4	3829.0	3611.3	3753.9	4331.7	5118.1	6158.9	7181.3	7532.3	7124.5	5955.0	80°
82.5°	1913.0	2733.0	2386.6	2630.3	2996.7	3681.8	4400.7	5171.7	5758.8	5325.0	4974.0	82.5°
85°	1453.1	2155.1	2282.4	2578.2	2697.8	2726.9	2852.6	3104.0	3407.5	3520.9	3511.7	85°
87.5°	757.2	1675.4	1880.8	1739.7	1623.3	1407.1	1097.5	1181.8	1080.6	1477.6	1399.5	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°
2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3
2710.0	2705.4	2708.5	2710.0	2710.0	2710.0	2713.1
2772.9	2760.6	2756.0	2756.0	2754.5	2749.9	2748.3
2840.3	2818.9	2811.2	2802.0	2794.3	2789.7	2782.1
2961.4	2943.0	2904.7	2883.2	2863.3	2849.5	2837.2
3123.9	3097.8	3061.0	3033.4	3002.8	2993.6	2978.3
3375.3	3352.3	3320.1	3289.4	3271.0	3238.8	3215.9
3767.7	3721.7	3689.5	3649.6	3605.2	3539.3	3507.1
4284.2	4192.3	4127.9	4092.6	4003.7	3993.0	3914.8
4877.4	4849.8	4751.7	4708.8	4623.0	4589.3	4466.6
5764.9	5743.5	5542.7	5521.2	5389.4	5291.3	5101.2
6931.4	6755.1	6528.3	6370.4	6145.1	5892.2	5568.7
7950.7	7590.5	7244.1	6876.2	6565.1	6201.8	5835.4
8600.6	8117.8	7671.8	7294.7	6909.9	6477.7	6007.1
9170.9	8683.4	8197.5	7751.5	7285.5	6732.1	6151.2
9853.0	9368.6	8821.4	8194.4	7596.6	6919.1	6209.4
10551.9	9984.8	9301.1	8533.2	7782.1	7011.1	6198.7
11267.7	10542.7	9633.8	8758.5	7900.1	7024.9	6126.7
11848.7	10932.1	9880.5	8873.5	7924.7	6977.4	6036.2
12259.5	11181.9	9990.9	8913.3	7894.0	6902.3	5913.6
12494.0	11318.3	10018.5	8884.2	7831.2	6795.0	5780.3
12579.8	11359.7	9990.9	8824.4	7774.5	6680.0	5686.8
12570.6	11336.7	9889.7	8684.9	7622.7	6526.7	5571.8
12397.4	11123.7	9682.8	8517.9	7493.9	6456.2	5579.5
12103.1	10988.8	9621.5	8551.6	7561.4	6608.0	5821.6
11969.8	11258.5	9966.4	8888.8	7907.8	7041.8	6321.3
11894.7	11696.9	10460.0	9252.1	8318.6	7567.5	6917.6
11588.1	11822.6	10740.5	9459.0	8684.9	8094.8	7513.9
11093.0	11529.9	10527.4	9419.2	8887.3	8499.5	7728.5
10059.9	10521.3	9578.6	8832.1	8634.4	8505.6	7406.6
8150.0	8389.1	7852.6	7684.0	7757.6	7759.1	6212.5
6010.2	5866.1	5623.9	5636.2	6131.3	6054.6	4428.3
4906.6	4016.0	3672.6	3802.9	4414.5	4085.0	2782.1
4566.3	3582.2	2956.8	2987.5	3333.9	2631.8	1675.4
3692.6	3264.9	2618.1	2349.8	2280.8	1753.5	1137.4
1545.1	1420.9	1057.6	953.4	781.7	478.2	217.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)