

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: P158891

Luminaire Tested: **VST-E05-LED-E-U-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158891
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-E05-LED-E-U-SLL-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (105) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13787.2 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

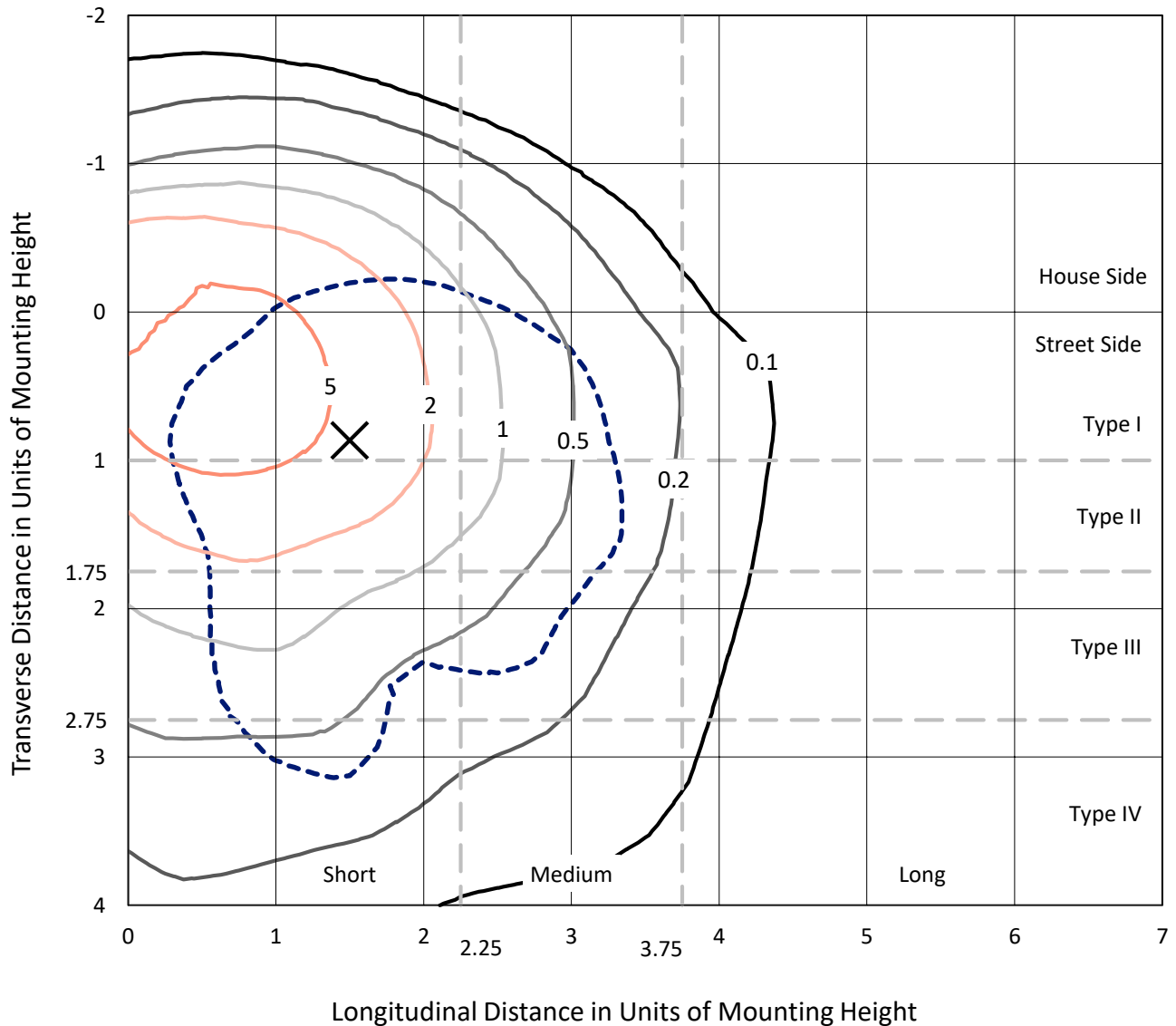
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

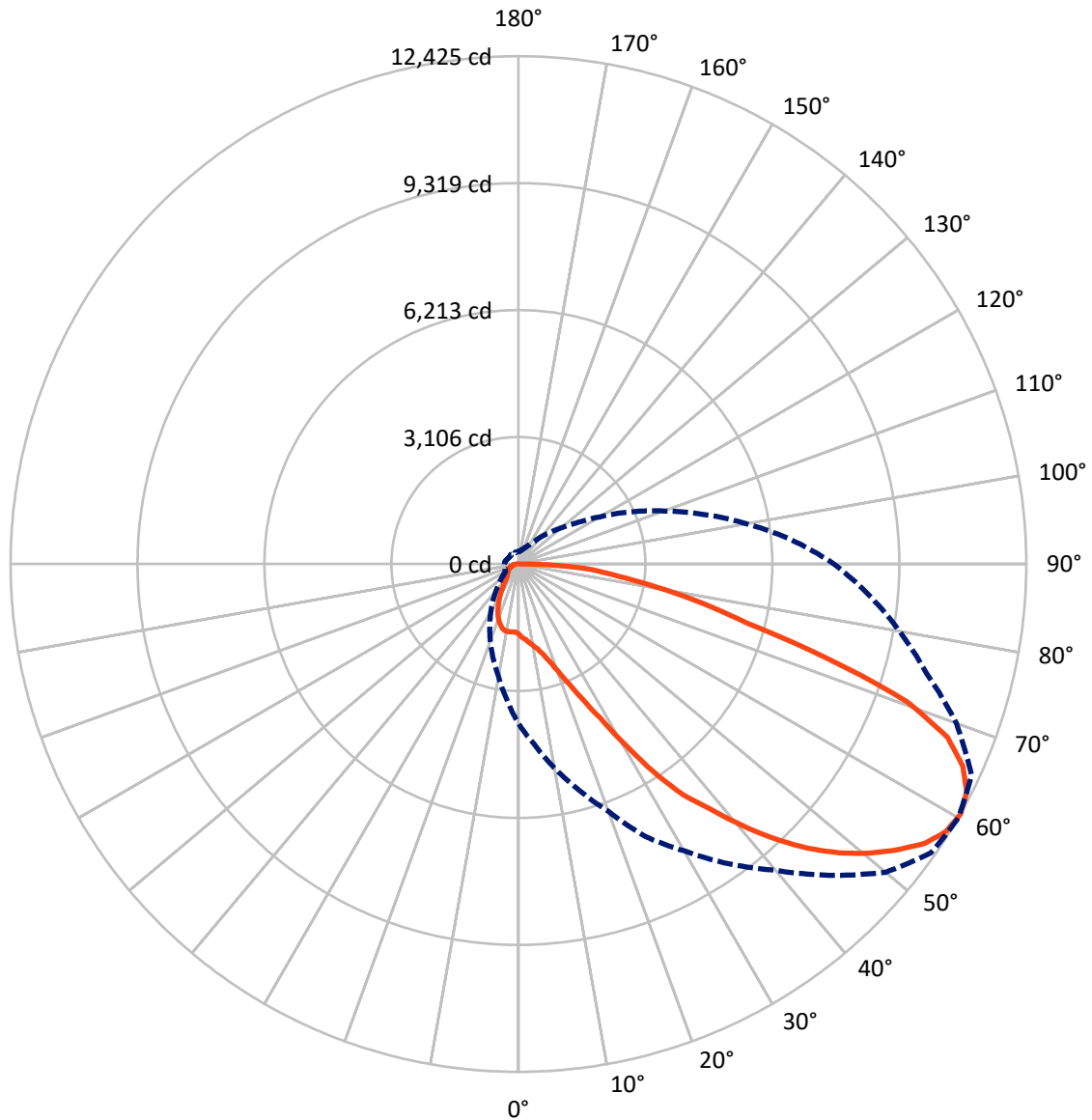
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3104.4	0.0	3104.4
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	10682.7	0.0	10682.7
	% Fixture	77.5	0.0	77.5
Total	Lumens	13787.2	0.0	13787.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	1.2
10°-20°	546.2	4.0
20°-30°	1036.4	7.5
30°-40°	1632.2	11.8
40°-50°	2278.1	16.5
50°-60°	2817.5	20.4
60°-70°	2920.5	21.2
70°-80°	1837.7	13.3
80°-90°	549.3	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°	13787.2	100.0
0°-180°	13787.2	100.0



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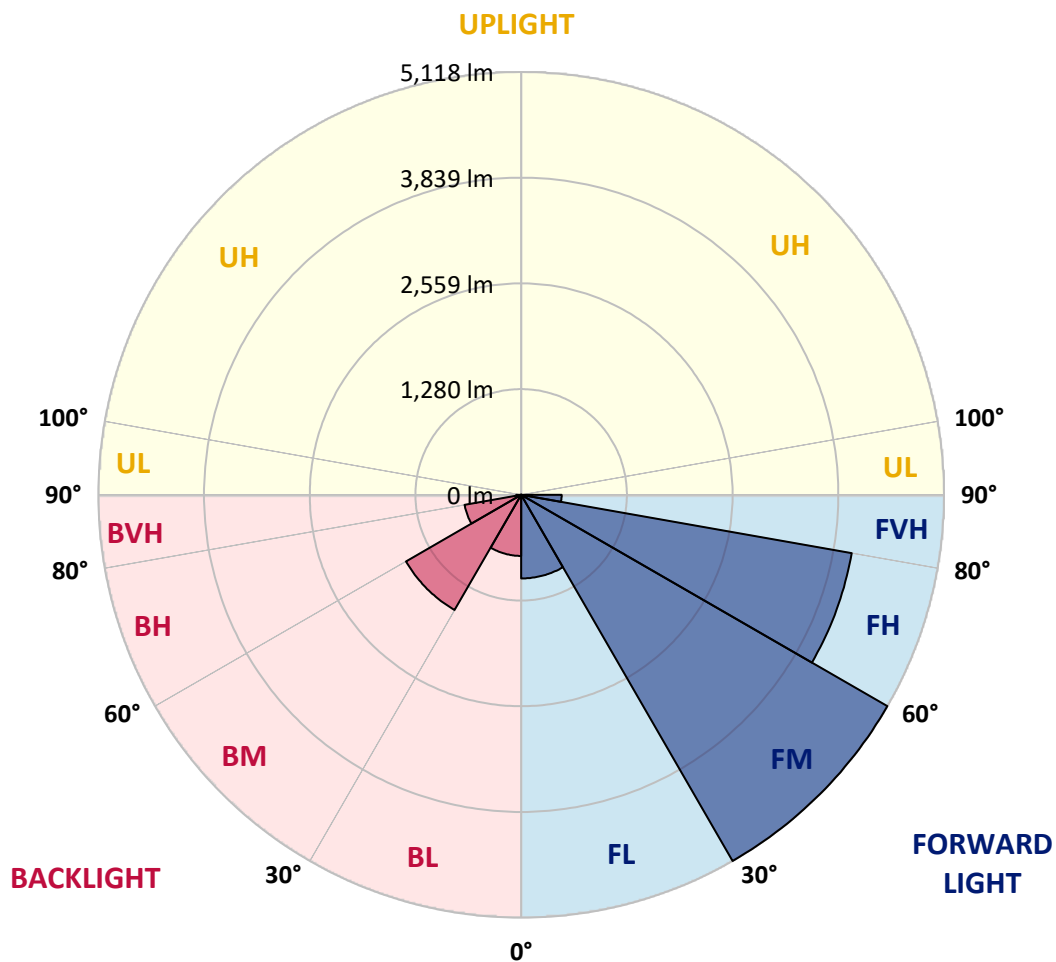
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1012.2	7.3			
FM	(30°-60°)	5118.0	37.1			
FH	(60°-80°)	4063.0	29.5			G2/5000
FVH	(80°-90°)	489.6	3.6			G3/500
BL	(0°-30°)	739.6	5.4	B2/1000		
BM	(30°-60°)	1609.8	11.7	B2/2500		
BH	(60°-80°)	695.3	5.0	B2/1000		G2/1000
BVH	(80°-90°)	59.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6
2.5°	1816.2	1814.2	1814.2	1814.2	1813.1	1811.1	1814.2	1813.1	1808.0	1804.9	1808.0
5°	1839.8	1840.8	1843.9	1844.9	1844.9	1848.0	1856.2	1857.3	1856.2	1858.3	1863.4
7.5°	1862.4	1867.5	1870.6	1875.7	1881.9	1887.0	1901.4	1915.7	1925.0	1932.2	1934.2
10°	1899.3	1907.5	1916.8	1930.1	1944.5	1970.1	1982.4	1996.8	2006.0	2020.4	2023.5
12.5°	1993.7	2004.0	2010.1	2030.7	2049.1	2073.8	2091.2	2095.3	2116.9	2129.2	2143.5
15°	2152.8	2168.2	2189.7	2202.0	2222.5	2244.1	2259.5	2280.0	2283.1	2299.5	2310.8
17.5°	2347.7	2369.3	2413.4	2443.2	2469.8	2491.4	2522.2	2545.8	2550.9	2569.4	2545.8
20°	2620.7	2673.0	2680.2	2739.7	2763.3	2806.4	2868.0	2879.3	2909.0	2879.3	2861.8
22.5°	2990.1	3072.2	3094.7	3152.2	3180.9	3246.6	3265.1	3325.6	3346.1	3323.6	3276.4
25°	3414.9	3542.1	3607.8	3696.0	3710.4	3844.8	3859.2	3930.0	3892.0	3837.6	3838.7
27.5°	3727.8	3944.3	4113.7	4264.5	4370.2	4522.0	4640.0	4672.9	4637.0	4566.2	4541.5
30°	3906.4	4151.6	4394.8	4603.1	4849.4	5081.3	5322.4	5442.5	5463.0	5499.9	5351.1
32.5°	4021.3	4336.3	4625.7	4883.2	5135.7	5434.3	5757.5	6066.3	6325.9	6521.9	6429.6
35°	4117.8	4506.7	4877.1	5189.0	5487.6	5812.9	6139.2	6503.5	6933.4	7184.8	7237.1
37.5°	4156.8	4631.8	5085.4	5485.6	5905.2	6271.6	6595.8	6920.1	7371.5	7819.9	7958.5
40°	4149.6	4693.4	5209.5	5712.3	6226.4	6684.1	7063.7	7447.5	7975.9	8500.3	8726.0
42.5°	4101.3	4702.6	5288.5	5863.2	6449.1	7057.6	7542.9	7985.2	8492.0	9164.1	9483.3
45°	4040.8	4670.8	5305.0	5940.1	6614.3	7318.2	7931.8	8478.7	9072.8	9736.7	10122.5
47.5°	3958.7	4620.6	5284.4	5966.8	6688.2	7485.4	8206.8	8864.5	9518.2	10282.6	10772.1
50°	3869.4	4548.7	5242.4	5947.3	6706.6	7576.8	8363.8	9112.8	9876.3	10701.3	11320.0
52.5°	3806.9	4471.8	5204.4	5907.3	6688.2	7604.5	8421.2	9246.2	10095.9	10948.5	11687.3
55°	3729.9	4369.2	5102.8	5813.9	6620.4	7589.1	8415.1	9292.4	10156.4	11044.0	11887.4
57.5°	3735.0	4322.0	5016.6	5702.1	6481.9	7446.4	8299.1	9246.2	10061.0	10982.4	11894.6
60°	3897.1	4423.5	5061.8	5724.6	6440.9	7356.1	8102.1	8948.7	9780.8	10770.0	11728.4
62.5°	4231.7	4713.9	5293.7	5950.4	6671.7	7536.7	8012.9	8454.1	9192.9	10379.1	11445.2
65°	4630.8	5065.9	5568.7	6193.6	7002.1	7830.2	7962.6	8051.8	8425.4	9618.7	10913.7
67.5°	5030.0	5418.9	5813.9	6332.1	7189.9	7914.4	7757.4	7545.0	7746.1	8735.2	9869.1
70°	5173.6	5689.8	5949.4	6305.4	7047.3	7718.4	7425.9	6891.3	6961.1	7860.0	8689.1
72.5°	4958.1	5693.9	5780.1	5912.4	6412.1	7043.2	6734.3	6046.8	6032.5	6718.9	7389.0
75°	4158.8	5194.1	5193.1	5143.9	5256.7	5615.9	5455.8	5041.3	5216.7	5757.5	5978.1
77.5°	2964.4	4053.1	4104.4	3773.0	3764.8	3926.9	4023.4	4505.6	5141.8	5445.5	5375.8
80°	1862.4	2734.6	2955.2	2545.8	2458.5	2688.4	3284.6	3986.4	4769.3	5042.3	4807.3
82.5°	1121.5	1761.8	2231.8	1999.9	1979.4	2398.0	3056.8	3329.7	3564.7	3855.1	3462.1
85°	761.4	1173.9	1526.8	1573.0	1752.6	2185.6	2471.9	2350.8	2357.0	2281.0	2077.9
87.5°	145.7	320.1	523.3	638.2	708.0	951.2	1034.3	936.8	989.2	723.4	791.1
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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CATALOG NUMBER: VST-E05-LED-E-U-SLL-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6
2.5°	1802.9	1802.9	1802.9	1797.7	1798.8	1791.6	1788.5	1788.5	1785.4	1785.4	1784.4
5°	1859.3	1853.1	1856.2	1855.2	1855.2	1844.9	1839.8	1839.8	1826.5	1827.5	1823.4
7.5°	1943.4	1942.4	1945.5	1939.3	1931.1	1922.9	1914.7	1910.6	1892.1	1880.9	1873.7
10°	2038.9	2037.8	2040.9	2039.9	2025.5	2010.1	1987.6	1971.1	1948.6	1931.1	1913.7
12.5°	2143.5	2142.5	2140.5	2131.2	2115.8	2091.2	2062.5	2034.8	2000.9	1978.3	1952.7
15°	2306.7	2303.6	2291.3	2278.0	2261.5	2223.6	2173.3	2133.3	2088.1	2049.1	2007.1
17.5°	2547.8	2522.2	2520.1	2490.4	2446.2	2396.0	2348.8	2282.1	2217.4	2158.9	2101.5
20°	2880.3	2820.8	2804.3	2770.5	2712.0	2659.7	2557.1	2467.8	2379.5	2299.5	2226.6
22.5°	3242.5	3199.4	3159.4	3104.0	3023.9	2948.0	2817.7	2705.8	2593.0	2490.4	2409.3
25°	3748.4	3673.5	3601.6	3513.4	3402.6	3312.3	3163.5	3050.6	2902.9	2809.5	2692.5
27.5°	4402.0	4273.7	4152.6	4076.7	3881.8	3750.4	3560.6	3414.9	3236.3	3110.1	2971.6
30°	5252.6	5103.8	4924.3	4661.6	4429.7	4169.1	3934.1	3747.3	3557.5	3381.0	3220.9
32.5°	6307.5	6044.8	5760.6	5344.0	4963.3	4591.8	4278.9	4049.0	3855.1	3635.5	3409.7
35°	7199.2	6928.3	6525.0	5995.5	5525.6	5100.8	4726.2	4412.3	4158.8	3880.7	3582.1
37.5°	7903.1	7594.2	7215.6	6653.3	6156.6	5673.3	5280.3	4880.2	4547.7	4165.0	3787.4
40°	8709.6	8399.7	7983.1	7400.3	6812.3	6288.0	5827.3	5413.7	5005.3	4538.5	4053.1
42.5°	9412.5	9188.8	8767.0	8164.7	7513.1	6929.3	6425.5	5952.4	5418.9	4896.6	4322.0
45°	10145.1	9917.3	9517.1	8887.1	8194.5	7543.9	6941.6	6432.7	5802.6	5180.8	4523.1
47.5°	10792.6	10558.6	10154.3	9528.4	8792.7	8107.3	7444.4	6828.7	6097.1	5382.9	4654.4
50°	11410.3	11124.0	10753.6	10129.7	9343.7	8611.1	7891.8	7101.7	6325.9	5524.6	4743.7
52.5°	11977.7	11613.5	11262.5	10620.2	9770.6	9005.1	8202.7	7333.6	6466.5	5636.4	4804.2
55°	12299.9	12064.9	11645.3	11014.2	10074.3	9276.0	8399.7	7496.7	6606.1	5715.4	4829.9
57.5°	12399.5	12342.0	11990.0	11242.0	10252.8	9424.8	8533.1	7626.0	6699.4	5738.0	4794.0
60°	12320.4	12425.1	12232.2	11402.1	10333.9	9468.9	8598.8	7718.4	6715.9	5666.2	4685.2
62.5°	12067.0	12305.1	12280.4	11455.4	10291.8	9413.5	8591.6	7671.2	6561.9	5442.5	4441.0
65°	11650.4	11950.0	12055.7	11257.4	10054.8	9211.3	8408.9	7374.6	6134.1	5005.3	4031.6
67.5°	10866.5	11320.0	11422.6	10608.9	9435.0	8652.1	7882.5	6759.0	5341.9	4329.1	3392.3
70°	9295.5	10088.7	10227.2	9373.5	8342.2	7654.7	7002.1	5783.1	4448.2	3472.3	2603.2
72.5°	7420.8	7919.5	8202.7	7614.7	6847.2	6348.5	5853.9	4436.9	3356.4	2562.2	1791.6
75°	5801.6	5771.8	6025.3	5634.3	5182.9	4949.9	4578.5	3095.8	2248.2	1697.2	1133.8
77.5°	4960.2	4578.5	4290.1	4015.2	3747.3	3673.5	3317.4	1920.9	1389.3	1016.9	678.3
80°	4122.9	3426.2	2899.8	2512.9	2417.5	2563.2	2171.2	1132.8	822.9	583.9	425.8
82.5°	2945.9	2464.7	2006.0	1760.8	1597.6	1829.5	1280.6	629.0	446.4	349.9	282.2
85°	1909.6	1825.4	1805.9	1725.9	1527.9	1442.7	972.7	541.8	334.5	217.5	175.5
87.5°	734.7	942.0	1086.6	1164.6	1259.0	1121.5	506.9	186.8	183.7	112.9	85.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6
2.5°	1777.2	1773.1	1772.1	1769.0	1767.0	1767.0	1761.8	1668.4	1667.4	1667.4	1666.4
5°	1815.2	1810.0	1804.9	1803.9	1799.8	1799.8	1794.7	1701.3	1701.3	1701.3	1699.2
7.5°	1866.5	1856.2	1850.1	1847.0	1840.8	1843.9	1848.0	1753.6	1754.6	1753.6	1755.7
10°	1903.4	1897.3	1890.1	1888.0	1883.9	1887.0	1893.2	1799.8	1802.9	1803.9	1805.9
12.5°	1939.3	1929.1	1919.8	1916.8	1914.7	1922.9	1930.1	1839.8	1842.9	1846.0	1846.0
15°	1983.5	1966.0	1953.7	1946.5	1942.4	1950.6	1960.9	1871.6	1872.6	1875.7	1874.7
17.5°	2058.4	2032.7	2004.0	1998.9	1985.5	1988.6	1990.6	1891.1	1887.0	1879.8	1867.5
20°	2174.3	2135.3	2096.3	2079.9	2053.2	2041.9	2019.4	1892.1	1866.5	1844.9	1826.5
22.5°	2340.5	2283.1	2241.0	2213.3	2158.9	2121.0	2059.4	1887.0	1838.8	1801.8	1773.1
25°	2609.4	2540.6	2476.0	2406.2	2321.1	2245.1	2154.8	1932.2	1857.3	1793.6	1738.2
27.5°	2871.0	2762.3	2662.7	2558.1	2438.0	2324.1	2196.9	1946.5	1861.4	1779.3	1689.0
30°	3067.0	2909.0	2758.2	2605.3	2448.3	2300.5	2156.9	1897.3	1795.7	1703.3	1607.9
32.5°	3186.1	2980.8	2784.9	2595.0	2410.3	2244.1	2083.0	1812.1	1700.3	1591.5	1489.9
35°	3298.9	3044.5	2801.3	2577.6	2366.2	2181.5	2008.1	1712.6	1579.2	1463.2	1335.0
37.5°	3438.5	3111.2	2811.5	2545.8	2301.6	2090.2	1899.3	1587.4	1454.0	1311.4	1190.3
40°	3605.7	3179.9	2801.3	2482.1	2201.0	1970.1	1768.0	1456.0	1307.3	1168.7	1049.7
42.5°	3764.8	3240.4	2774.6	2397.0	2091.2	1844.9	1647.9	1339.1	1190.3	1048.7	930.7
45°	3882.8	3291.7	2761.2	2337.5	2007.1	1759.8	1542.2	1244.7	1087.7	945.0	825.0
47.5°	3964.9	3322.5	2755.1	2304.6	1948.6	1671.5	1445.8	1150.3	985.1	841.4	724.4
50°	4008.0	3321.5	2739.7	2268.7	1862.4	1565.8	1346.3	1054.8	890.7	750.1	643.4
52.5°	4019.3	3303.0	2706.9	2203.0	1757.7	1460.1	1239.5	955.3	807.5	673.1	565.4
55°	3993.6	3257.9	2638.1	2093.3	1645.9	1348.3	1142.1	877.3	726.5	599.2	515.1
57.5°	3920.7	3177.8	2508.8	1942.4	1527.9	1244.7	1030.2	782.9	638.2	531.5	461.7
60°	3785.3	3008.5	2306.7	1763.9	1378.1	1086.6	876.3	659.8	544.9	464.8	408.4
62.5°	3534.9	2742.8	2022.5	1517.6	1162.6	881.4	699.8	526.4	440.2	387.9	353.0
65°	3131.7	2342.6	1693.1	1195.4	883.5	641.3	520.2	396.1	333.5	301.7	291.4
67.5°	2556.0	1809.0	1231.3	830.1	598.2	449.4	362.2	289.4	259.6	247.3	243.2
70°	1858.3	1232.4	797.3	524.3	395.1	314.0	274.0	232.9	216.5	213.4	213.4
72.5°	1166.7	749.1	488.4	359.1	299.6	254.5	234.0	205.2	199.1	197.0	193.9
75°	684.4	454.6	345.8	294.5	256.5	227.8	210.4	186.8	182.6	181.6	178.5
77.5°	436.1	327.3	279.1	251.4	231.9	206.2	190.9	166.2	165.2	164.2	163.2
80°	313.0	271.9	244.2	222.7	203.2	179.6	170.3	150.8	148.8	147.8	149.8
82.5°	237.0	224.7	213.4	197.0	170.3	152.9	145.7	132.4	133.4	128.3	127.2
85°	163.2	161.1	160.1	152.9	133.4	118.0	112.9	105.7	110.8	105.7	99.5
87.5°	80.0	79.0	72.9	86.2	80.0	63.6	57.5	63.6	70.8	68.7	63.6
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°	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6
2.5°	1662.3	1658.2	1661.3	1659.2	1659.2	1658.2	1660.2	1657.2	1655.1	1657.2	1658.2
5°	1695.1	1690.0	1691.0	1683.8	1686.9	1679.7	1681.8	1676.7	1671.5	1669.5	1669.5
7.5°	1750.5	1745.4	1739.2	1738.2	1726.9	1722.8	1715.6	1711.5	1708.5	1701.3	1697.2
10°	1800.8	1792.6	1785.4	1784.4	1773.1	1762.8	1753.6	1745.4	1740.3	1730.0	1724.9
12.5°	1841.9	1833.7	1822.4	1816.2	1804.9	1792.6	1786.4	1774.1	1767.0	1755.7	1746.4
15°	1865.5	1851.1	1834.7	1823.4	1807.0	1793.6	1784.4	1775.2	1768.0	1753.6	1740.3
17.5°	1854.2	1830.6	1808.0	1787.5	1764.9	1752.6	1739.2	1728.0	1725.9	1709.5	1689.0
20°	1807.0	1779.3	1749.5	1721.8	1692.0	1674.6	1658.2	1640.7	1635.6	1616.1	1589.4
22.5°	1749.5	1717.7	1683.8	1650.0	1612.0	1587.4	1562.8	1541.2	1523.8	1495.0	1457.1
25°	1691.0	1643.8	1594.6	1551.5	1507.3	1476.6	1450.9	1427.3	1406.8	1360.6	1321.6
27.5°	1614.1	1540.2	1489.9	1440.7	1387.3	1347.3	1318.5	1285.7	1263.1	1209.8	1168.7
30°	1515.6	1441.7	1369.9	1320.6	1267.2	1224.1	1187.2	1140.0	1107.2	1068.2	1030.2
32.5°	1391.4	1317.5	1244.7	1189.3	1145.1	1091.8	1045.6	1000.5	962.5	924.5	894.8
35°	1240.6	1168.7	1100.0	1044.6	995.3	953.3	909.1	870.1	827.0	786.0	768.6
37.5°	1081.5	1004.6	928.6	880.4	841.4	811.6	770.6	738.8	699.8	675.2	654.7
40°	943.0	860.9	789.1	748.0	717.2	683.4	649.5	624.9	597.2	572.6	557.2
42.5°	826.0	749.1	687.5	652.6	615.7	578.7	553.1	532.5	515.1	496.6	478.2
45°	718.3	644.4	593.1	550.0	519.2	489.5	472.0	462.8	452.5	441.2	428.9
47.5°	628.0	564.4	514.1	474.1	442.3	421.7	413.5	410.4	406.3	397.1	390.9
50°	559.2	506.9	455.6	419.7	393.0	382.7	373.5	370.4	365.3	362.2	358.1
52.5°	501.8	446.4	403.3	370.4	354.0	349.9	345.8	341.7	340.7	338.6	336.6
55°	454.6	406.3	366.3	341.7	333.5	330.4	329.4	325.3	324.2	324.2	321.2
57.5°	412.5	371.5	335.5	320.1	315.0	311.9	309.9	307.8	307.8	309.9	308.9
60°	369.4	334.5	313.0	304.8	301.7	296.5	291.4	289.4	290.4	295.5	295.5
62.5°	327.3	301.7	288.3	285.3	282.2	278.1	271.9	269.9	271.9	278.1	281.2
65°	281.2	269.9	265.8	263.7	261.7	258.6	254.5	252.4	253.4	256.5	260.6
67.5°	239.1	238.1	238.1	239.1	238.1	237.0	235.0	231.9	230.9	230.9	232.9
70°	213.4	213.4	216.5	216.5	215.5	215.5	212.4	209.3	207.3	205.2	206.2
72.5°	193.9	193.9	195.0	196.0	195.0	195.0	190.9	188.8	183.7	182.6	180.6
75°	177.5	175.5	175.5	174.4	173.4	174.4	170.3	165.2	163.2	162.1	160.1
77.5°	161.1	157.0	154.9	152.9	153.9	152.9	149.8	146.7	143.7	142.6	141.6
80°	142.6	136.5	133.4	128.3	131.3	132.4	130.3	127.2	126.2	125.2	124.2
82.5°	118.0	111.8	107.7	104.7	102.6	104.7	107.7	114.9	112.9	111.8	109.8
85°	92.3	82.1	77.0	78.0	72.9	73.9	83.1	87.2	87.2	89.3	87.2
87.5°	52.3	50.3	38.0	34.9	36.9	44.1	49.3	54.4	54.4	51.3	57.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6
2.5°	1658.2	1660.2	1661.3	1665.4	1667.4	1668.4	1669.5	1671.5	1672.6	1671.5	1676.7
5°	1666.4	1666.4	1664.3	1667.4	1668.4	1668.4	1666.4	1668.4	1668.4	1668.4	1673.6
7.5°	1687.9	1681.8	1678.7	1674.6	1671.5	1667.4	1662.3	1662.3	1661.3	1662.3	1665.4
10°	1710.5	1701.3	1690.0	1679.7	1670.5	1663.3	1654.1	1651.0	1650.0	1649.0	1657.2
12.5°	1728.0	1711.5	1694.1	1676.7	1658.2	1645.9	1630.5	1621.2	1620.2	1620.2	1630.5
15°	1715.6	1689.0	1655.1	1624.3	1607.9	1590.5	1573.0	1561.7	1560.7	1562.8	1568.9
17.5°	1654.1	1611.0	1581.2	1551.5	1529.9	1515.6	1504.3	1502.2	1506.3	1502.2	1510.4
20°	1549.4	1503.2	1482.7	1459.1	1450.9	1440.7	1424.2	1409.9	1409.9	1391.4	1396.5
22.5°	1414.0	1388.3	1361.6	1343.2	1337.0	1319.6	1302.1	1282.6	1280.6	1258.0	1254.9
25°	1272.4	1246.7	1225.2	1221.1	1202.6	1179.0	1162.6	1140.0	1134.9	1112.3	1109.2
27.5°	1127.7	1107.2	1085.6	1073.3	1063.0	1037.4	1023.0	996.3	986.1	961.5	958.4
30°	990.2	975.8	950.2	939.9	920.4	890.7	859.9	843.5	835.2	809.6	801.4
32.5°	860.9	838.3	818.8	806.5	781.9	748.0	720.3	696.7	681.3	650.6	642.3
35°	737.8	715.2	706.0	674.2	652.6	630.0	592.1	577.7	550.0	526.4	518.2
37.5°	629.0	607.5	595.1	568.5	546.9	524.3	501.8	483.3	470.0	464.8	464.8
40°	535.6	524.3	508.9	489.5	475.1	458.7	446.4	440.2	439.2	441.2	446.4
42.5°	468.9	456.6	446.4	436.1	425.8	423.8	420.7	424.8	429.9	435.1	440.2
45°	418.7	408.4	402.2	398.1	397.1	400.2	406.3	412.5	421.7	427.9	432.0
47.5°	382.7	374.5	372.5	371.5	376.6	385.8	394.0	403.3	410.4	416.6	420.7
50°	352.0	344.8	343.7	342.7	349.9	358.1	365.3	377.6	382.7	386.8	389.9
52.5°	330.4	324.2	321.2	322.2	329.4	336.6	346.8	356.1	363.2	366.3	369.4
55°	313.0	310.9	303.7	306.8	314.0	323.2	333.5	343.7	350.9	356.1	361.2
57.5°	299.6	294.5	289.4	294.5	301.7	310.9	323.2	332.5	341.7	348.9	354.0
60°	285.3	281.2	277.0	282.2	289.4	298.6	307.8	320.1	331.4	338.6	343.7
62.5°	272.9	269.9	265.8	266.8	269.9	276.0	281.2	292.4	302.7	311.9	318.1
65°	255.5	254.5	248.3	249.3	251.4	257.6	261.7	271.9	282.2	290.4	295.5
67.5°	229.8	227.8	227.8	230.9	231.9	235.0	238.1	248.3	256.5	262.7	268.8
70°	204.2	203.2	203.2	205.2	204.2	207.3	211.4	220.6	230.9	237.0	243.2
72.5°	179.6	179.6	178.5	180.6	180.6	181.6	186.8	195.0	204.2	209.3	213.4
75°	158.0	157.0	157.0	157.0	158.0	158.0	163.2	170.3	179.6	182.6	188.8
77.5°	138.5	138.5	138.5	138.5	139.6	138.5	141.6	146.7	149.8	154.9	154.9
80°	122.1	121.1	122.1	123.1	123.1	122.1	122.1	123.1	124.2	124.2	124.2
82.5°	107.7	104.7	106.7	111.8	111.8	111.8	110.8	103.6	98.5	98.5	100.6
85°	86.2	86.2	87.2	94.4	95.4	91.3	95.4	85.2	74.9	71.8	73.9
87.5°	53.4	42.1	51.3	58.5	58.5	55.4	61.6	57.5	48.2	39.0	36.9
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	0°
2.5°	1680.8	1681.8	1687.9	1691.0	1691.0	1695.1	1697.2	1703.3	1702.3	1702.3	1704.4	2.5°
5°	1678.7	1681.8	1687.9	1692.0	1694.1	1699.2	1703.3	1710.5	1709.5	1711.5	1712.6	5°
7.5°	1671.5	1679.7	1685.9	1694.1	1701.3	1705.4	1710.5	1716.7	1714.6	1715.6	1714.6	7.5°
10°	1665.4	1673.6	1685.9	1697.2	1707.4	1713.6	1716.7	1723.9	1722.8	1724.9	1724.9	10°
12.5°	1640.7	1655.1	1670.5	1687.9	1703.3	1719.8	1730.0	1745.4	1752.6	1761.8	1772.1	12.5°
15°	1578.2	1594.6	1619.2	1638.7	1668.4	1691.0	1720.8	1750.5	1777.2	1802.9	1832.6	15°
17.5°	1516.6	1523.8	1543.3	1569.9	1596.6	1630.5	1666.4	1719.8	1768.0	1820.3	1877.8	17.5°
20°	1402.7	1415.0	1428.3	1460.1	1492.0	1540.2	1584.3	1654.1	1724.9	1807.0	1895.2	20°
22.5°	1262.1	1274.4	1288.8	1324.7	1363.7	1412.9	1466.3	1544.3	1638.7	1745.4	1863.4	22.5°
25°	1110.2	1117.4	1128.7	1164.6	1188.2	1252.9	1317.5	1398.6	1501.2	1638.7	1776.2	25°
27.5°	943.0	956.3	965.6	982.0	1036.4	1091.8	1159.5	1246.7	1370.9	1511.5	1677.7	27.5°
30°	782.9	794.2	789.1	824.0	859.9	918.4	991.2	1087.7	1206.7	1374.0	1565.8	30°
32.5°	625.9	634.1	631.1	655.7	691.6	750.1	818.8	923.5	1049.7	1228.2	1436.5	32.5°
35°	516.1	518.2	529.5	540.8	571.5	618.7	677.2	768.6	897.8	1062.0	1282.6	35°
37.5°	464.8	468.9	476.1	491.5	514.1	547.9	596.2	667.0	777.8	922.5	1119.5	37.5°
40°	449.4	452.5	456.6	466.9	488.4	518.2	561.3	620.8	701.9	824.0	984.0	40°
42.5°	442.3	442.3	442.3	448.4	464.8	496.6	545.9	604.4	675.2	767.5	896.8	42.5°
45°	432.0	432.0	431.0	434.0	445.3	477.1	530.5	596.2	672.1	760.3	872.2	45°
47.5°	420.7	419.7	416.6	416.6	423.8	455.6	511.0	581.8	664.9	766.5	886.6	47.5°
50°	389.9	389.9	389.9	393.0	399.2	427.9	487.4	562.3	657.7	770.6	909.1	50°
52.5°	372.5	373.5	376.6	376.6	382.7	412.5	475.1	558.2	661.8	786.0	937.9	52.5°
55°	364.3	367.3	370.4	370.4	375.6	406.3	471.0	561.3	677.2	817.8	987.1	55°
57.5°	357.1	360.2	362.2	362.2	366.3	393.0	459.7	556.1	686.5	848.6	1047.7	57.5°
60°	343.7	345.8	346.8	346.8	347.8	370.4	434.0	531.5	665.9	846.5	1080.5	60°
62.5°	319.1	323.2	324.2	325.3	325.3	346.8	401.2	491.5	621.8	815.8	1071.3	62.5°
65°	300.6	302.7	305.8	307.8	311.9	326.3	369.4	443.3	564.4	754.2	1019.9	65°
67.5°	271.9	275.0	278.1	282.2	286.3	295.5	329.4	388.9	486.4	649.5	905.0	67.5°
70°	246.3	247.3	250.4	255.5	256.5	261.7	286.3	327.3	398.1	521.3	728.5	70°
72.5°	214.5	216.5	220.6	226.8	226.8	230.9	245.2	266.8	311.9	398.1	537.7	72.5°
75°	186.8	188.8	191.9	191.9	186.8	187.8	198.0	213.4	247.3	299.6	392.0	75°
77.5°	154.9	159.0	162.1	156.0	153.9	157.0	162.1	173.4	198.0	238.1	294.5	77.5°
80°	128.3	130.3	131.3	132.4	130.3	133.4	137.5	144.7	161.1	191.9	232.9	80°
82.5°	102.6	104.7	107.7	111.8	111.8	123.1	124.2	124.2	133.4	152.9	182.6	82.5°
85°	75.9	80.0	84.1	89.3	90.3	96.5	93.4	92.3	95.4	113.9	126.2	85°
87.5°	39.0	42.1	44.1	48.2	43.1	45.1	45.1	42.1	36.9	46.2	51.3	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°
1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6
1706.4	1704.4	1706.4	1706.4	1709.5	1707.4	1816.2
1714.6	1712.6	1714.6	1716.7	1719.8	1719.8	1839.8
1715.6	1715.6	1713.6	1718.7	1722.8	1726.9	1862.4
1728.0	1728.0	1730.0	1731.0	1740.3	1750.5	1899.3
1778.2	1783.4	1792.6	1795.7	1812.1	1823.4	1993.7
1855.2	1883.9	1902.4	1908.6	1922.9	1944.5	2152.8
1933.2	1981.4	2031.7	2062.5	2080.9	2106.6	2347.7
1991.7	2082.0	2168.2	2245.1	2289.2	2339.5	2620.7
1996.8	2140.5	2286.2	2428.8	2546.8	2640.2	2990.1
1947.5	2136.4	2337.5	2556.0	2759.2	2927.5	3414.9
1885.0	2116.9	2373.4	2652.5	2919.3	3167.6	3727.8
1805.9	2084.0	2379.5	2693.5	3006.5	3305.1	3906.4
1685.9	1986.5	2305.7	2652.5	3015.7	3379.0	4021.3
1532.0	1838.8	2166.1	2561.2	2972.6	3408.7	4117.8
1375.0	1677.7	2029.6	2439.1	2903.9	3403.6	4156.8
1208.8	1509.4	1869.6	2308.7	2810.5	3356.4	4149.6
1095.9	1369.9	1722.8	2176.4	2706.9	3293.8	4101.3
1030.2	1270.3	1606.9	2055.3	2612.5	3218.9	4040.8
1029.2	1240.6	1545.3	1969.1	2517.0	3135.8	3958.7
1065.1	1259.0	1538.1	1932.2	2464.7	3075.2	3869.4
1107.2	1310.3	1576.1	1945.5	2463.7	3048.6	3806.9
1173.9	1397.6	1659.2	2003.0	2490.4	3044.5	3729.9
1259.0	1515.6	1809.0	2144.6	2594.0	3125.5	3735.0
1346.3	1654.1	2005.0	2386.7	2798.2	3314.3	3897.1
1378.1	1760.8	2204.1	2671.0	3104.0	3597.5	4231.7
1350.4	1785.4	2325.2	2891.6	3401.5	3929.0	4630.8
1247.7	1685.9	2275.9	2954.2	3572.9	4163.9	5030.0
1027.1	1438.6	2052.2	2813.6	3559.6	4212.2	5173.6
753.2	1115.4	1668.4	2390.8	3164.5	3910.5	4958.1
543.8	789.1	1204.6	1800.8	2501.6	3149.1	4158.8
389.9	546.9	781.9	1183.1	1704.4	2192.8	2964.4
280.1	371.5	487.4	710.1	1038.4	1346.3	1862.4
206.2	254.5	320.1	441.2	611.6	783.9	1121.5
140.6	149.8	192.9	260.6	401.2	576.7	761.4
53.4	60.5	70.8	106.7	179.6	206.2	145.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)