

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: P158913

Luminaire Tested: **VST-F07-LED-E-U-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158913
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-F07-LED-E-U-SLL-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (49) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13106.3 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 180.5
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: 28.75 FT

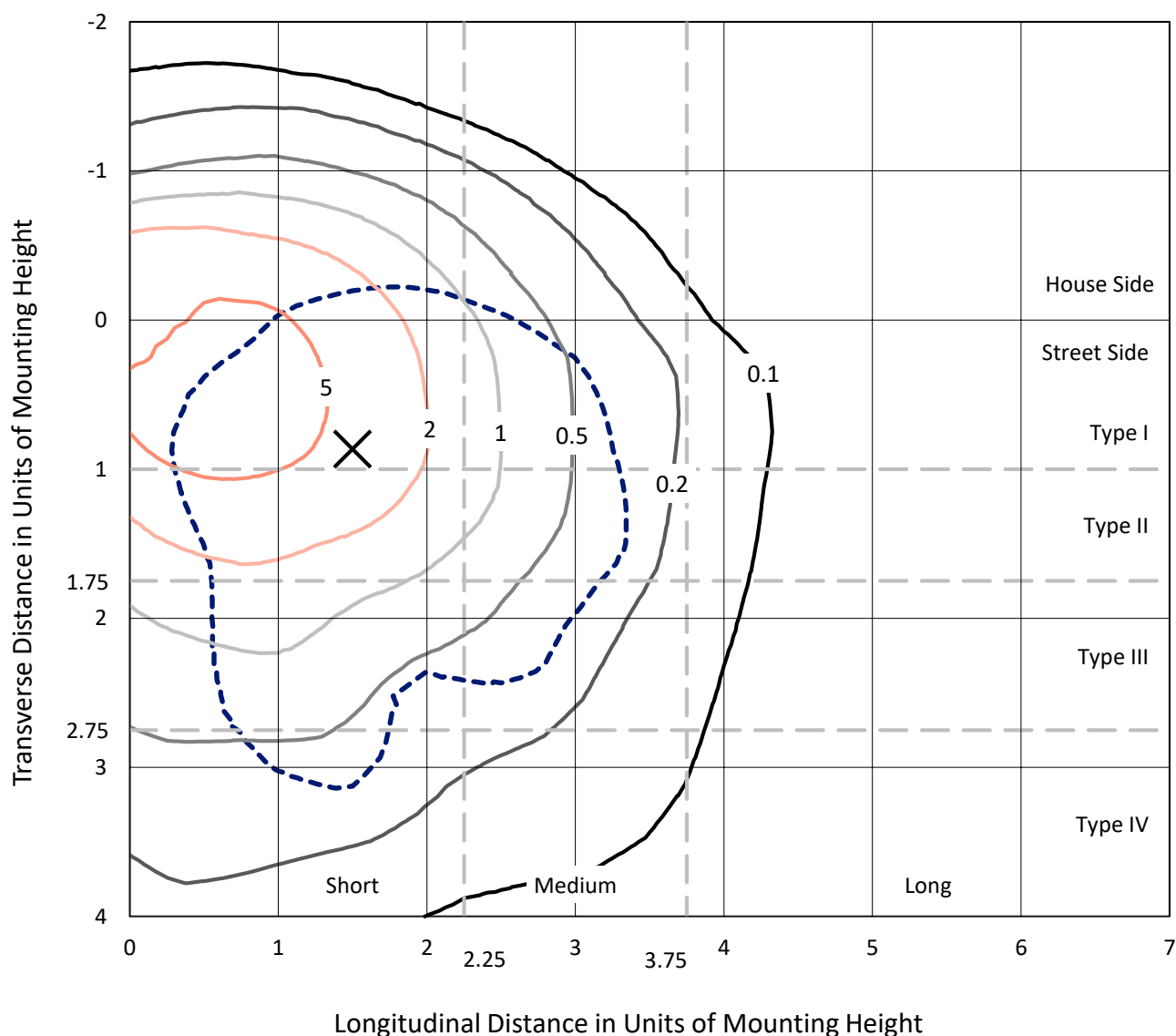


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

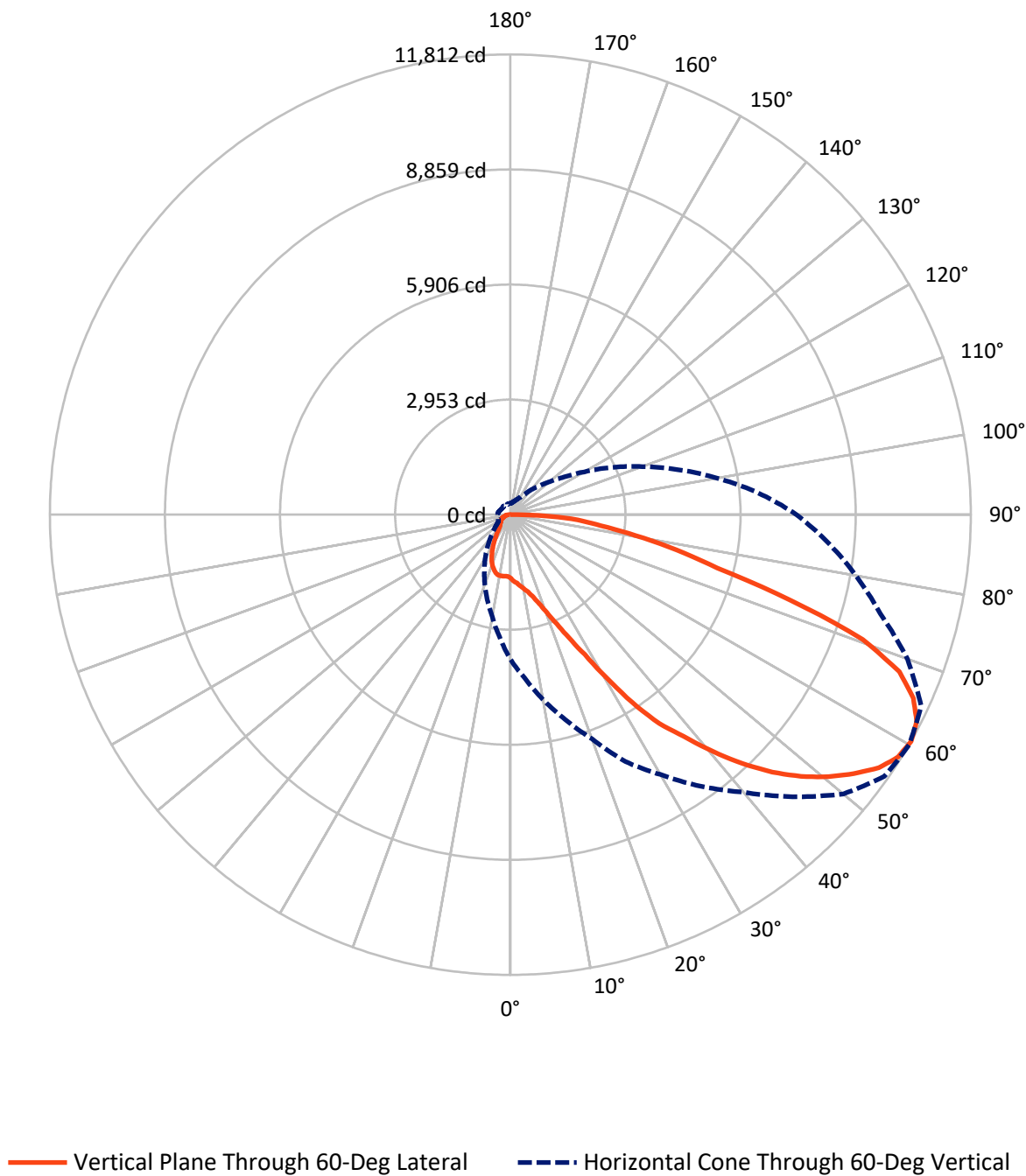


Based on 20 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2951.1	0.0	2951.1
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	10155.2	0.0	10155.2
	% Fixture	77.5	0.0	77.5
Total	Lumens	13106.3	0.0	13106.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	1.2
10°-20°	519.2	4.0
20°-30°	985.2	7.5
30°-40°	1551.6	11.8
40°-50°	2165.6	16.5
50°-60°	2678.4	20.4
60°-70°	2776.3	21.2
70°-80°	1746.9	13.3
80°-90°	522.2	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°	13106.3	100.0
0°-180°	13106.3	100.0

Coefficient of Utilization



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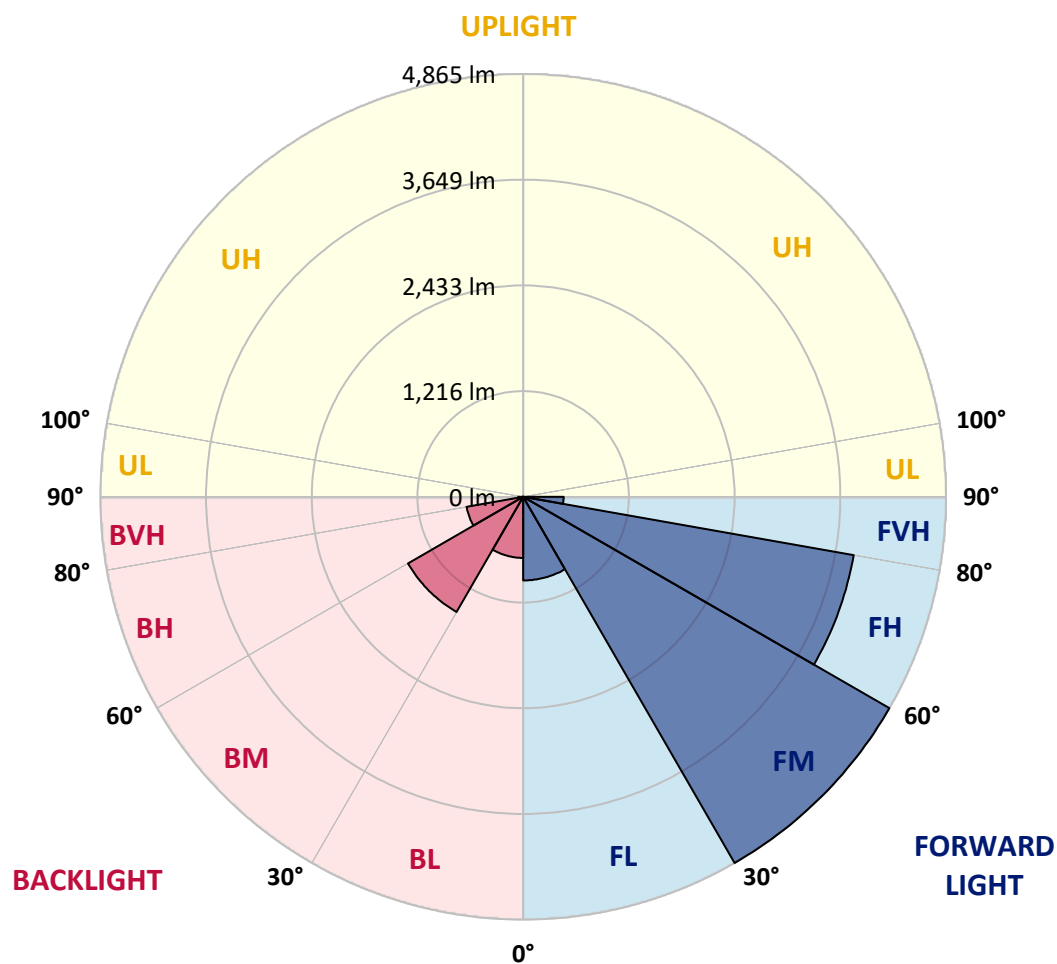
CATALOG NUMBER: VST-F07-LED-E-U-SLL-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	962.2	7.3			
FM	(30°-60°)	4865.3	37.1			
FH	(60°-80°)	3862.3	29.5			G2/5000
FVH	(80°-90°)	465.4	3.6			G3/500
BL	(0°-30°)	703.1	5.4	B2/1000		
BM	(30°-60°)	1530.3	11.7	B2/2500		
BH	(60°-80°)	660.9	5.0	B2/1000		G2/1000
BVH	(80°-90°)	56.8	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°	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9
2.5°	1726.5	1724.6	1724.6	1724.6	1723.6	1721.6	1724.6	1723.6	1718.7	1715.8	1718.7
5°	1748.9	1749.9	1752.8	1753.8	1753.8	1756.7	1764.6	1765.5	1764.6	1766.5	1771.4
7.5°	1770.4	1775.3	1778.2	1783.1	1788.9	1793.8	1807.5	1821.1	1829.9	1836.7	1838.7
10°	1805.5	1813.3	1822.1	1834.8	1848.4	1872.8	1884.5	1898.2	1907.0	1920.6	1923.5
12.5°	1895.3	1905.0	1910.9	1930.4	1947.9	1971.3	1987.9	1991.8	2012.3	2024.0	2037.7
15°	2046.5	2061.1	2081.6	2093.3	2112.8	2133.3	2147.9	2167.4	2170.3	2185.9	2196.7
17.5°	2231.8	2252.3	2294.2	2322.5	2347.9	2368.3	2397.6	2420.0	2424.9	2442.5	2420.0
20°	2491.2	2541.0	2547.8	2604.4	2626.8	2667.8	2726.3	2737.1	2765.3	2737.1	2720.5
22.5°	2842.4	2920.4	2941.9	2996.5	3023.8	3086.3	3103.8	3161.4	3180.9	3159.4	3114.5
25°	3246.2	3367.2	3429.6	3513.5	3527.2	3654.9	3668.6	3735.9	3699.8	3648.1	3649.1
27.5°	3543.7	3749.6	3910.5	4053.9	4154.4	4298.7	4410.9	4442.1	4408.0	4340.7	4317.3
30°	3713.5	3946.6	4177.8	4375.8	4609.9	4830.3	5059.6	5173.7	5193.2	5228.3	5086.9
32.5°	3822.7	4122.2	4397.2	4642.1	4882.0	5165.9	5473.1	5766.7	6013.5	6199.8	6112.0
35°	3914.4	4284.1	4636.2	4932.7	5216.6	5525.8	5836.0	6182.3	6591.0	6830.0	6879.7
37.5°	3951.5	4403.1	4834.2	5214.6	5613.6	5961.8	6270.1	6578.3	7007.5	7433.8	7565.4
40°	3944.6	4461.6	4952.3	5430.2	5918.9	6353.9	6714.9	7079.7	7582.0	8080.5	8295.1
42.5°	3898.8	4470.4	5027.4	5573.6	6130.6	6709.0	7170.4	7590.8	8072.7	8711.6	9014.9
45°	3841.2	4440.2	5043.0	5646.8	6287.6	6956.8	7540.1	8060.0	8624.8	9255.9	9622.6
47.5°	3763.2	4392.4	5023.5	5672.1	6357.9	7115.8	7801.5	8426.7	9048.1	9774.8	10240.1
50°	3678.3	4324.1	4983.5	5653.6	6375.4	7202.6	7950.7	8662.8	9388.5	10172.8	10760.9
52.5°	3618.8	4250.9	4947.4	5615.5	6357.9	7228.9	8005.4	8789.6	9597.3	10407.8	11110.1
55°	3545.7	4153.4	4850.8	5526.8	6293.5	7214.3	7999.5	8833.5	9654.8	10498.6	11300.4
57.5°	3550.6	4108.5	4768.9	5420.5	6161.8	7078.7	7889.3	8789.6	9564.1	10440.0	11307.2
60°	3704.7	4205.1	4811.8	5441.9	6122.8	6992.9	7702.0	8506.7	9297.8	10238.1	11149.2
62.5°	4022.7	4481.1	5032.2	5656.5	6342.2	7164.5	7617.1	8036.6	8738.9	9866.5	10879.9
65°	4402.1	4815.7	5293.7	5887.7	6656.3	7443.5	7569.3	7654.2	8009.3	9143.7	10374.7
67.5°	4781.6	5151.2	5526.8	6019.4	6834.8	7523.5	7374.2	7172.3	7363.5	8303.8	9381.7
70°	4918.1	5408.8	5655.5	5994.0	6699.3	7337.2	7059.2	6551.0	6617.3	7471.8	8259.9
72.5°	4713.3	5412.7	5494.6	5620.4	6095.5	6695.3	6401.7	5748.2	5734.6	6387.1	7024.1
75°	3953.4	4937.6	4936.7	4889.8	4997.1	5338.5	5186.4	4792.3	4959.1	5473.1	5682.9
77.5°	2818.0	3852.9	3901.7	3586.7	3578.9	3733.0	3824.7	4283.1	4887.9	5176.6	5110.3
80°	1770.4	2599.5	2809.2	2420.0	2337.1	2555.6	3122.4	3789.5	4533.8	4793.3	4569.9
82.5°	1066.1	1674.8	2121.6	1901.1	1881.6	2279.6	2905.8	3165.3	3388.6	3664.7	3291.1
85°	723.8	1115.9	1451.4	1495.3	1666.0	2077.7	2349.8	2234.7	2240.6	2168.4	1975.2
87.5°	138.5	304.3	497.5	606.7	673.0	904.2	983.2	890.6	940.3	687.7	752.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9
2.5°	1713.8	1713.8	1713.8	1709.0	1709.9	1703.1	1700.2	1700.2	1697.2	1697.2	1696.3
5°	1767.5	1761.6	1764.6	1763.6	1763.6	1753.8	1748.9	1748.9	1736.3	1737.2	1733.3
7.5°	1847.5	1846.5	1849.4	1843.6	1835.8	1828.0	1820.2	1816.3	1798.7	1788.0	1781.1
10°	1938.2	1937.2	1940.1	1939.2	1925.5	1910.9	1889.4	1873.8	1852.3	1835.8	1819.2
12.5°	2037.7	2036.7	2034.7	2026.0	2011.3	1987.9	1960.6	1934.3	1902.1	1880.6	1856.2
15°	2192.8	2189.8	2178.1	2165.5	2149.8	2113.8	2066.0	2027.9	1985.0	1947.9	1907.9
17.5°	2422.0	2397.6	2395.7	2367.4	2325.4	2277.6	2232.8	2169.4	2107.9	2052.3	1997.7
20°	2738.0	2681.5	2665.8	2633.7	2578.1	2528.3	2430.8	2345.9	2262.0	2185.9	2116.7
22.5°	3082.4	3041.4	3003.3	2950.7	2874.6	2802.4	2678.5	2572.2	2464.9	2367.4	2290.3
25°	3563.2	3492.0	3423.8	3339.9	3234.5	3148.7	3007.2	2900.0	2759.5	2670.7	2559.5
27.5°	4184.6	4062.7	3947.6	3875.4	3690.1	3565.2	3384.7	3246.2	3076.5	2956.5	2824.8
30°	4993.2	4851.8	4681.1	4431.4	4210.9	3963.2	3739.8	3562.3	3381.8	3214.0	3061.9
32.5°	5996.0	5746.3	5476.1	5080.0	4718.2	4365.0	4067.5	3849.0	3664.7	3455.9	3241.4
35°	6843.6	6586.1	6202.8	5699.4	5252.7	4848.9	4492.8	4194.3	3953.4	3689.1	3405.2
37.5°	7512.8	7219.2	6859.2	6324.7	5852.6	5393.2	5019.6	4639.1	4323.1	3959.3	3600.3
40°	8279.4	7984.9	7588.8	7034.8	6475.9	5977.4	5539.5	5146.4	4758.1	4314.3	3852.9
42.5°	8947.6	8735.0	8334.1	7761.5	7142.1	6587.1	6108.1	5658.5	5151.2	4654.8	4108.5
45°	9644.1	9427.5	9047.1	8448.2	7789.8	7171.4	6598.8	6115.0	5516.1	4924.9	4299.7
47.5°	10259.6	10037.2	9652.9	9057.8	8358.5	7706.9	7076.7	6491.5	5796.0	5117.1	4424.5
50°	10846.8	10574.6	10222.5	9629.4	8882.3	8185.8	7502.0	6750.9	6013.5	5251.7	4509.4
52.5°	11386.2	11039.9	10706.3	10095.7	9288.0	8560.4	7797.6	6971.4	6147.2	5358.0	4567.0
55°	11692.5	11469.1	11070.2	10470.3	9576.8	8817.9	7984.9	7126.5	6279.8	5433.1	4591.3
57.5°	11787.1	11732.5	11397.9	10686.8	9746.5	8959.3	8111.7	7249.4	6368.6	5454.6	4557.2
60°	11712.0	11811.5	11628.1	10839.0	9823.6	9001.3	8174.1	7337.2	6384.2	5386.3	4453.8
62.5°	11471.1	11697.4	11673.9	10889.7	9783.6	8948.6	8167.3	7292.3	6237.9	5173.7	4221.7
65°	11075.0	11359.9	11460.3	10701.4	9558.2	8756.4	7993.6	7010.4	5831.1	4758.1	3832.5
67.5°	10329.8	10760.9	10858.5	10085.0	8969.1	8224.8	7493.3	6425.2	5078.1	4115.3	3224.8
70°	8836.4	9590.4	9722.1	8910.6	7930.2	7276.7	6656.3	5497.5	4228.5	3300.9	2474.7
72.5°	7054.3	7528.4	7797.6	7238.7	6509.0	6035.0	5564.8	4217.8	3190.6	2435.6	1703.1
75°	5515.1	5486.8	5727.7	5356.1	4926.9	4705.5	4352.4	2942.9	2137.2	1613.4	1077.8
77.5°	4715.2	4352.4	4078.3	3816.9	3562.3	3492.0	3153.6	1826.0	1320.7	966.7	644.8
80°	3919.3	3257.0	2756.6	2388.8	2298.1	2436.6	2064.0	1076.9	782.3	555.0	404.8
82.5°	2800.5	2343.0	1907.0	1673.8	1518.7	1739.2	1217.3	597.9	424.3	332.6	268.2
85°	1815.3	1735.3	1716.8	1640.7	1452.4	1371.5	924.7	515.0	318.0	206.8	166.8
87.5°	698.4	895.4	1033.0	1107.1	1196.9	1066.1	481.9	177.5	174.6	107.3	81.0
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°	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9
2.5°	1689.4	1685.5	1684.6	1681.6	1679.7	1679.7	1674.8	1586.0	1585.1	1585.1	1584.1
5°	1725.5	1720.7	1715.8	1714.8	1710.9	1710.9	1706.0	1617.3	1617.3	1617.3	1615.3
7.5°	1774.3	1764.6	1758.7	1755.8	1749.9	1752.8	1756.7	1667.0	1668.0	1667.0	1669.0
10°	1809.4	1803.6	1796.7	1794.8	1790.9	1793.8	1799.7	1710.9	1713.8	1714.8	1716.8
12.5°	1843.6	1833.8	1825.0	1822.1	1820.2	1828.0	1834.8	1748.9	1751.9	1754.8	1754.8
15°	1885.5	1868.9	1857.2	1850.4	1846.5	1854.3	1864.0	1779.2	1780.2	1783.1	1782.1
17.5°	1956.7	1932.3	1905.0	1900.1	1887.5	1890.4	1892.3	1797.7	1793.8	1787.0	1775.3
20°	2066.9	2029.9	1992.8	1977.2	1951.8	1941.1	1919.6	1798.7	1774.3	1753.8	1736.3
22.5°	2225.0	2170.3	2130.3	2104.0	2052.3	2016.2	1957.7	1793.8	1748.0	1712.9	1685.5
25°	2480.5	2415.2	2353.7	2287.4	2206.4	2134.2	2048.4	1836.7	1765.5	1705.1	1652.4
27.5°	2729.3	2625.9	2531.2	2431.7	2317.6	2209.3	2088.4	1850.4	1769.4	1691.4	1605.6
30°	2915.6	2765.3	2622.0	2476.6	2327.4	2186.9	2050.4	1803.6	1707.0	1619.2	1528.5
32.5°	3028.7	2833.6	2647.3	2466.9	2291.3	2133.3	1980.1	1722.6	1616.3	1512.9	1416.3
35°	3136.0	2894.1	2662.9	2450.3	2249.3	2073.8	1908.9	1628.0	1501.2	1391.0	1269.0
37.5°	3268.7	2957.5	2672.7	2420.0	2187.9	1987.0	1805.5	1509.0	1382.2	1246.6	1131.5
40°	3427.7	3022.9	2662.9	2359.6	2092.3	1872.8	1680.7	1384.1	1242.7	1111.0	997.9
42.5°	3578.9	3080.4	2637.6	2278.6	1987.9	1753.8	1566.5	1272.9	1131.5	996.9	884.7
45°	3691.0	3129.2	2624.9	2222.0	1907.9	1672.9	1466.1	1183.2	1034.0	898.4	784.2
47.5°	3769.1	3158.4	2619.0	2190.8	1852.3	1589.0	1374.4	1093.5	936.4	799.9	688.7
50°	3810.0	3157.5	2604.4	2156.7	1770.4	1488.5	1279.8	1002.7	846.7	713.0	611.6
52.5°	3820.8	3139.9	2573.2	2094.2	1670.9	1388.0	1178.3	908.1	767.7	639.9	537.5
55°	3796.4	3097.0	2507.8	1989.9	1564.6	1281.7	1085.7	834.0	690.6	569.7	489.7
57.5°	3727.1	3020.9	2384.9	1846.5	1452.4	1183.2	979.3	744.3	606.7	505.3	438.9
60°	3598.4	2860.0	2192.8	1676.8	1310.0	1033.0	833.0	627.2	518.0	441.9	388.2
62.5°	3360.4	2607.3	1922.6	1442.7	1105.2	837.9	665.2	500.4	418.5	368.7	335.5
65°	2977.0	2226.9	1609.5	1136.4	839.8	609.6	494.5	376.5	317.0	286.8	277.0
67.5°	2429.8	1719.7	1170.5	789.1	568.7	427.2	344.3	275.1	246.8	235.1	231.2
70°	1766.5	1171.5	757.9	498.4	375.5	298.5	260.4	221.4	205.8	202.9	202.9
72.5°	1109.1	712.1	464.3	341.4	284.8	241.9	222.4	195.1	189.2	187.3	184.4
75°	650.6	432.1	328.7	279.9	243.9	216.5	200.0	177.5	173.6	172.7	169.7
77.5°	414.6	311.2	265.3	239.0	220.4	196.1	181.4	158.0	157.0	156.1	155.1
80°	297.5	258.5	232.2	211.7	193.1	170.7	161.9	143.4	141.4	140.5	142.4
82.5°	225.3	213.6	202.9	187.3	161.9	145.3	138.5	125.8	126.8	121.9	121.0
85°	155.1	153.1	152.2	145.3	126.8	112.2	107.3	100.5	105.3	100.5	94.6
87.5°	76.1	75.1	69.3	81.9	76.1	60.5	54.6	60.5	67.3	65.4	60.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P158913

CATALOG NUMBER: VST-F07-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9
2.5°	1580.2	1576.3	1579.2	1577.3	1577.3	1576.3	1578.2	1575.3	1573.4	1575.3	1576.3
5°	1611.4	1606.5	1607.5	1600.7	1603.6	1596.8	1598.7	1593.9	1589.0	1587.0	1587.0
7.5°	1664.1	1659.2	1653.4	1652.4	1641.6	1637.7	1630.9	1627.0	1624.1	1617.3	1613.4
10°	1711.9	1704.1	1697.2	1696.3	1685.5	1675.8	1667.0	1659.2	1654.3	1644.6	1639.7
12.5°	1750.9	1743.1	1732.4	1726.5	1715.8	1704.1	1698.2	1686.5	1679.7	1669.0	1660.2
15°	1773.3	1759.7	1744.1	1733.3	1717.7	1705.1	1696.3	1687.5	1680.7	1667.0	1654.3
17.5°	1762.6	1740.2	1718.7	1699.2	1677.7	1666.0	1653.4	1642.6	1640.7	1625.1	1605.6
20°	1717.7	1691.4	1663.1	1636.8	1608.5	1591.9	1576.3	1559.7	1554.8	1536.3	1510.9
22.5°	1663.1	1632.9	1600.7	1568.5	1532.4	1509.0	1485.6	1465.1	1448.5	1421.2	1385.1
25°	1607.5	1562.6	1515.8	1474.8	1432.9	1403.6	1379.3	1356.8	1337.3	1293.4	1256.4
27.5°	1534.4	1464.1	1416.3	1369.5	1318.8	1280.7	1253.4	1222.2	1200.8	1150.0	1111.0
30°	1440.7	1370.5	1302.2	1255.4	1204.7	1163.7	1128.6	1083.7	1052.5	1015.4	979.3
32.5°	1322.7	1252.5	1183.2	1130.5	1088.6	1037.9	994.0	951.0	915.0	878.9	850.6
35°	1179.3	1111.0	1045.7	993.0	946.2	906.2	864.2	827.2	786.2	747.2	730.6
37.5°	1028.1	954.9	882.8	836.9	799.9	771.6	732.5	702.3	665.2	641.8	622.3
40°	896.4	818.4	750.1	711.1	681.8	649.6	617.4	594.0	567.7	544.3	529.7
42.5°	785.2	712.1	653.5	620.4	585.3	550.1	525.8	506.2	489.7	472.1	454.6
45°	682.8	612.6	563.8	522.8	493.6	465.3	448.7	439.9	430.2	419.4	407.7
47.5°	597.0	536.5	488.7	450.6	420.4	400.9	393.1	390.2	386.3	377.5	371.6
50°	531.6	481.9	433.1	399.0	373.6	363.8	355.1	352.1	347.3	344.3	340.4
52.5°	477.0	424.3	383.3	352.1	336.5	332.6	328.7	324.8	323.8	321.9	319.9
55°	432.1	386.3	348.2	324.8	317.0	314.1	313.1	309.2	308.2	308.2	305.3
57.5°	392.1	353.1	319.0	304.3	299.5	296.5	294.6	292.6	292.6	294.6	293.6
60°	351.2	318.0	297.5	289.7	286.8	281.9	277.0	275.1	276.0	280.9	280.9
62.5°	311.2	286.8	274.1	271.2	268.2	264.3	258.5	256.5	258.5	264.3	267.3
65°	267.3	256.5	252.6	250.7	248.7	245.8	241.9	240.0	240.9	243.9	247.8
67.5°	227.3	226.3	226.3	227.3	226.3	225.3	223.4	220.4	219.5	219.5	221.4
70°	202.9	202.9	205.8	205.8	204.8	204.8	201.9	199.0	197.0	195.1	196.1
72.5°	184.4	184.4	185.3	186.3	185.3	185.3	181.4	179.5	174.6	173.6	171.7
75°	168.7	166.8	166.8	165.8	164.8	165.8	161.9	157.0	155.1	154.1	152.2
77.5°	153.1	149.2	147.3	145.3	146.3	145.3	142.4	139.5	136.6	135.6	134.6
80°	135.6	129.7	126.8	121.9	124.9	125.8	123.9	121.0	120.0	119.0	118.0
82.5°	112.2	106.3	102.4	99.5	97.5	99.5	102.4	109.2	107.3	106.3	104.4
85°	87.8	78.0	73.2	74.1	69.3	70.2	79.0	82.9	82.9	84.9	82.9
87.5°	49.7	47.8	36.1	33.2	35.1	41.9	46.8	51.7	51.7	48.8	54.6
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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CATALOG NUMBER: VST-F07-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9
2.5°	1576.3	1578.2	1579.2	1583.1	1585.1	1586.0	1587.0	1589.0	1590.0	1589.0	1593.9
5°	1584.1	1584.1	1582.1	1585.1	1586.0	1586.0	1584.1	1586.0	1586.0	1586.0	1590.9
7.5°	1604.6	1598.7	1595.8	1591.9	1589.0	1585.1	1580.2	1580.2	1579.2	1580.2	1583.1
10°	1626.0	1617.3	1606.5	1596.8	1588.0	1581.2	1572.4	1569.5	1568.5	1567.5	1575.3
12.5°	1642.6	1627.0	1610.4	1593.9	1576.3	1564.6	1550.0	1541.2	1540.2	1540.2	1550.0
15°	1630.9	1605.6	1573.4	1544.1	1528.5	1511.9	1495.3	1484.6	1483.6	1485.6	1491.4
17.5°	1572.4	1531.4	1503.1	1474.8	1454.4	1440.7	1430.0	1428.0	1431.9	1428.0	1435.8
20°	1472.9	1429.0	1409.5	1387.1	1379.3	1369.5	1353.9	1340.2	1340.2	1322.7	1327.6
22.5°	1344.1	1319.8	1294.4	1276.8	1271.0	1254.4	1237.8	1219.3	1217.3	1195.9	1193.0
25°	1209.5	1185.1	1164.7	1160.8	1143.2	1120.8	1105.2	1083.7	1078.8	1057.4	1054.4
27.5°	1072.0	1052.5	1032.0	1020.3	1010.5	986.2	972.5	947.1	937.4	914.0	911.1
30°	941.3	927.6	903.2	893.5	875.0	846.7	817.4	801.8	794.0	769.6	761.8
32.5°	818.4	796.9	778.4	766.7	743.3	711.1	684.8	662.3	647.7	618.4	610.6
35°	701.3	679.9	671.1	640.9	620.4	598.9	562.8	549.2	522.8	500.4	492.6
37.5°	597.9	577.5	565.7	540.4	519.9	498.4	477.0	459.4	446.7	441.9	441.9
40°	509.2	498.4	483.8	465.3	451.6	436.0	424.3	418.5	417.5	419.4	424.3
42.5°	445.8	434.1	424.3	414.6	404.8	402.9	399.9	403.8	408.7	413.6	418.5
45°	398.0	388.2	382.4	378.5	377.5	380.4	386.3	392.1	400.9	406.8	410.7
47.5°	363.8	356.0	354.1	353.1	358.0	366.8	374.6	383.3	390.2	396.0	399.9
50°	334.6	327.7	326.8	325.8	332.6	340.4	347.3	359.0	363.8	367.7	370.7
52.5°	314.1	308.2	305.3	306.3	313.1	319.9	329.7	338.5	345.3	348.2	351.2
55°	297.5	295.6	288.7	291.7	298.5	307.3	317.0	326.8	333.6	338.5	343.4
57.5°	284.8	279.9	275.1	279.9	286.8	295.6	307.3	316.0	324.8	331.6	336.5
60°	271.2	267.3	263.4	268.2	275.1	283.9	292.6	304.3	315.1	321.9	326.8
62.5°	259.5	256.5	252.6	253.6	256.5	262.4	267.3	278.0	287.8	296.5	302.4
65°	242.9	241.9	236.1	237.0	239.0	244.8	248.7	258.5	268.2	276.0	280.9
67.5°	218.5	216.5	216.5	219.5	220.4	223.4	226.3	236.1	243.9	249.7	255.6
70°	194.1	193.1	193.1	195.1	194.1	197.0	200.9	209.7	219.5	225.3	231.2
72.5°	170.7	170.7	169.7	171.7	171.7	172.7	177.5	185.3	194.1	199.0	202.9
75°	150.2	149.2	149.2	149.2	150.2	150.2	155.1	161.9	170.7	173.6	179.5
77.5°	131.7	131.7	131.7	131.7	132.7	131.7	134.6	139.5	142.4	147.3	147.3
80°	116.1	115.1	116.1	117.1	117.1	116.1	116.1	117.1	118.0	118.0	118.0
82.5°	102.4	99.5	101.4	106.3	106.3	106.3	105.3	98.5	93.6	93.6	95.6
85°	81.9	81.9	82.9	89.7	90.7	86.8	90.7	81.0	71.2	68.3	70.2
87.5°	50.7	40.0	48.8	55.6	55.6	52.7	58.5	54.6	45.8	37.1	35.1
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-F07-LED-E-U-SLL-8030

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	0°
2.5°	1597.8	1598.7	1604.6	1607.5	1607.5	1611.4	1613.4	1619.2	1618.2	1618.2	1620.2	2.5°
5°	1595.8	1598.7	1604.6	1608.5	1610.4	1615.3	1619.2	1626.0	1625.1	1627.0	1628.0	5°
7.5°	1589.0	1596.8	1602.6	1610.4	1617.3	1621.2	1626.0	1631.9	1629.9	1630.9	1629.9	7.5°
10°	1583.1	1590.9	1602.6	1613.4	1623.1	1629.0	1631.9	1638.7	1637.7	1639.7	1639.7	10°
12.5°	1559.7	1573.4	1588.0	1604.6	1619.2	1634.8	1644.6	1659.2	1666.0	1674.8	1684.6	12.5°
15°	1500.2	1515.8	1539.2	1557.8	1586.0	1607.5	1635.8	1664.1	1689.4	1713.8	1742.1	15°
17.5°	1441.7	1448.5	1467.0	1492.4	1517.8	1550.0	1584.1	1634.8	1680.7	1730.4	1785.0	17.5°
20°	1333.4	1345.1	1357.8	1388.0	1418.3	1464.1	1506.1	1572.4	1639.7	1717.7	1801.6	20°
22.5°	1199.8	1211.5	1225.1	1259.3	1296.3	1343.2	1393.9	1468.0	1557.8	1659.2	1771.4	22.5°
25°	1055.4	1062.2	1073.0	1107.1	1129.5	1191.0	1252.5	1329.5	1427.1	1557.8	1688.5	25°
27.5°	896.4	909.1	917.9	933.5	985.2	1037.9	1102.2	1185.1	1303.2	1436.8	1594.8	27.5°
30°	744.3	755.0	750.1	783.3	817.4	873.0	942.3	1034.0	1147.1	1306.1	1488.5	30°
32.5°	595.0	602.8	599.9	623.3	657.4	713.0	778.4	877.9	997.9	1167.6	1365.6	32.5°
35°	490.6	492.6	503.3	514.1	543.3	588.2	643.8	730.6	853.5	1009.6	1219.3	35°
37.5°	441.9	445.8	452.6	467.2	488.7	520.9	566.7	634.0	739.4	876.9	1064.2	37.5°
40°	427.2	430.2	434.1	443.8	464.3	492.6	533.6	590.1	667.2	783.3	935.4	40°
42.5°	420.4	420.4	420.4	426.3	441.9	472.1	518.9	574.5	641.8	729.6	852.5	42.5°
45°	410.7	410.7	409.7	412.6	423.3	453.6	504.3	566.7	638.9	722.8	829.1	45°
47.5°	399.9	399.0	396.0	396.0	402.9	433.1	485.8	553.1	632.1	728.6	842.8	47.5°
50°	370.7	370.7	370.7	373.6	379.4	406.8	463.3	534.5	625.3	732.5	864.2	50°
52.5°	354.1	355.1	358.0	358.0	363.8	392.1	451.6	530.6	629.2	747.2	891.5	52.5°
55°	346.3	349.2	352.1	352.1	357.0	386.3	447.7	533.6	643.8	777.4	938.4	55°
57.5°	339.4	342.4	344.3	344.3	348.2	373.6	437.0	528.7	652.6	806.7	995.9	57.5°
60°	326.8	328.7	329.7	329.7	330.7	352.1	412.6	505.3	633.1	804.7	1027.1	60°
62.5°	303.4	307.3	308.2	309.2	309.2	329.7	381.4	467.2	591.1	775.5	1018.3	62.5°
65°	285.8	287.8	290.7	292.6	296.5	310.2	351.2	421.4	536.5	716.9	969.6	65°
67.5°	258.5	261.4	264.3	268.2	272.1	280.9	313.1	369.7	462.4	617.4	860.3	67.5°
70°	234.1	235.1	238.0	242.9	243.9	248.7	272.1	311.2	378.5	495.5	692.6	70°
72.5°	203.9	205.8	209.7	215.6	215.6	219.5	233.1	253.6	296.5	378.5	511.1	72.5°
75°	177.5	179.5	182.4	182.4	177.5	178.5	188.3	202.9	235.1	284.8	372.6	75°
77.5°	147.3	151.2	154.1	148.3	146.3	149.2	154.1	164.8	188.3	226.3	279.9	77.5°
80°	121.9	123.9	124.9	125.8	123.9	126.8	130.7	137.5	153.1	182.4	221.4	80°
82.5°	97.5	99.5	102.4	106.3	106.3	117.1	118.0	118.0	126.8	145.3	173.6	82.5°
85°	72.2	76.1	80.0	84.9	85.8	91.7	88.8	87.8	90.7	108.3	120.0	85°
87.5°	37.1	40.0	41.9	45.8	41.0	42.9	42.9	40.0	35.1	43.9	48.8	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°



NUMBER: P158913

NUMBER: VST-F07-LED-E-U-SLL-8030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1629.9	1629.9	1629.9	1629.9	1629.9	1629.9	1629.9
1622.1	1620.2	1622.1	1622.1	1625.1	1623.1	1726.5
1629.9	1628.0	1629.9	1631.9	1634.8	1634.8	1748.9
1630.9	1630.9	1629.0	1633.8	1637.7	1641.6	1770.4
1642.6	1642.6	1644.6	1645.6	1654.3	1664.1	1805.5
1690.4	1695.3	1704.1	1707.0	1722.6	1733.3	1895.3
1763.6	1790.9	1808.4	1814.3	1828.0	1848.4	2046.5
1837.7	1883.6	1931.4	1960.6	1978.2	2002.6	2231.8
1893.3	1979.1	2061.1	2134.2	2176.2	2224.0	2491.2
1898.2	2034.7	2173.3	2308.8	2421.0	2509.8	2842.4
1851.4	2030.8	2222.0	2429.8	2622.9	2782.9	3246.2
1791.9	2012.3	2256.2	2521.5	2775.1	3011.2	3543.7
1716.8	1981.1	2262.0	2560.5	2858.0	3141.9	3713.5
1602.6	1888.4	2191.8	2521.5	2866.8	3212.1	3822.7
1456.3	1748.0	2059.1	2434.7	2825.8	3240.4	3914.4
1307.1	1594.8	1929.4	2318.6	2760.5	3235.5	3951.5
1149.1	1434.9	1777.2	2194.7	2671.7	3190.6	3944.6
1041.8	1302.2	1637.7	2068.9	2573.2	3131.1	3898.8
979.3	1207.6	1527.5	1953.8	2483.4	3059.9	3841.2
978.4	1179.3	1469.0	1871.8	2392.7	2980.9	3763.2
1012.5	1196.9	1462.2	1836.7	2343.0	2923.4	3678.3
1052.5	1245.6	1498.3	1849.4	2342.0	2898.0	3618.8
1115.9	1328.5	1577.3	1904.0	2367.4	2894.1	3545.7
1196.9	1440.7	1719.7	2038.6	2465.9	2971.2	3550.6
1279.8	1572.4	1906.0	2268.8	2660.0	3150.6	3704.7
1310.0	1673.8	2095.2	2539.0	2950.7	3419.9	4022.7
1283.7	1697.2	2210.3	2748.8	3233.5	3734.9	4402.1
1186.1	1602.6	2163.5	2808.3	3396.4	3958.3	4781.6
976.4	1367.6	1950.9	2674.6	3383.8	4004.1	4918.1
716.0	1060.3	1586.0	2272.8	3008.2	3717.4	4713.3
517.0	750.1	1145.2	1711.9	2378.1	2993.6	3953.4
370.7	519.9	743.3	1124.7	1620.2	2084.5	2818.0
266.3	353.1	463.3	675.0	987.1	1279.8	1770.4
196.1	241.9	304.3	419.4	581.4	745.2	1066.1
133.6	142.4	183.4	247.8	381.4	548.2	723.8
50.7	57.6	67.3	101.4	170.7	196.1	138.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)