

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: P158889

Luminaire Tested: **VST-E05-LED-E-U-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158889
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-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12272.1 lumens
Efficiency: N/A
Efficacy: 96.4 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

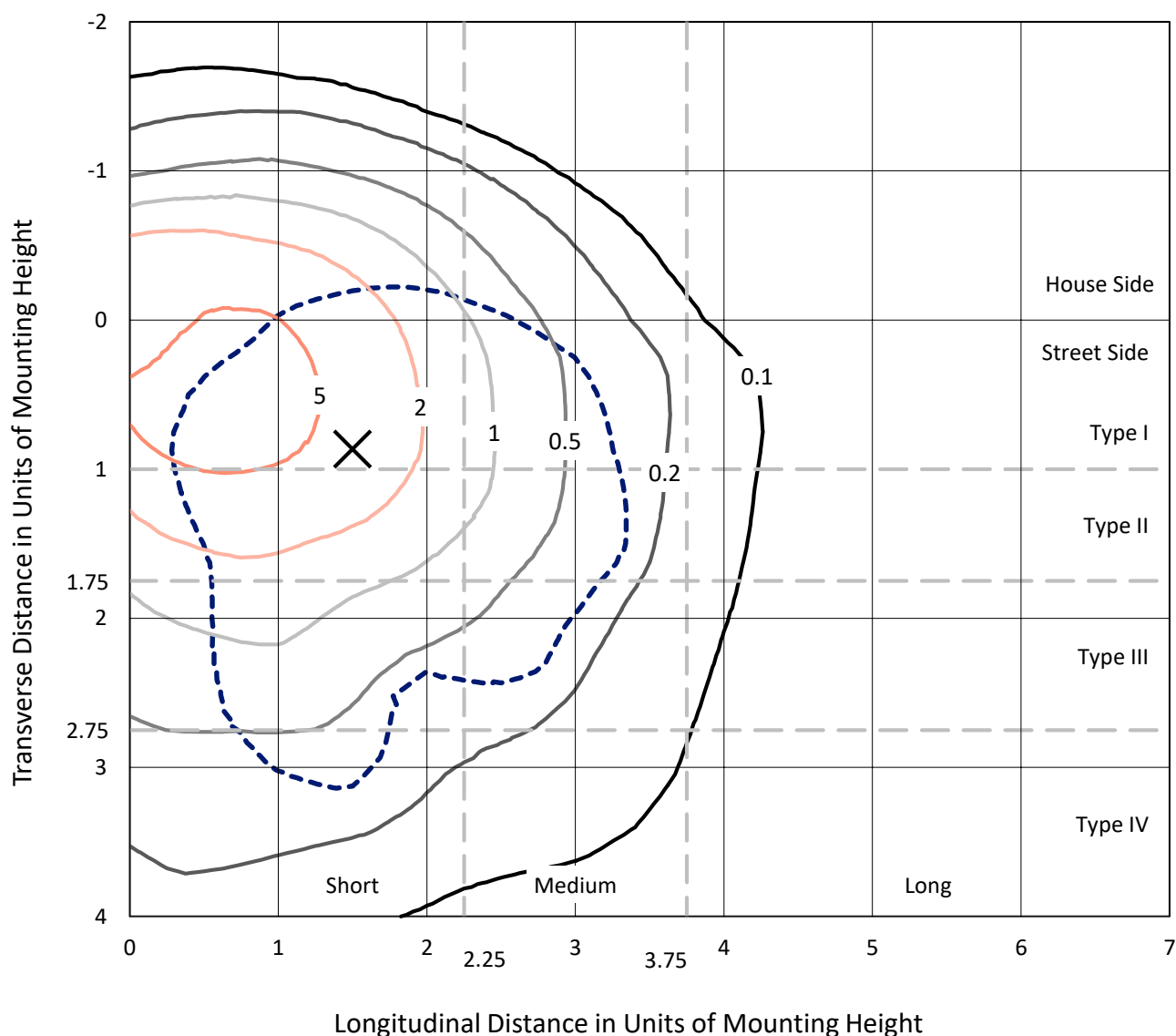


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

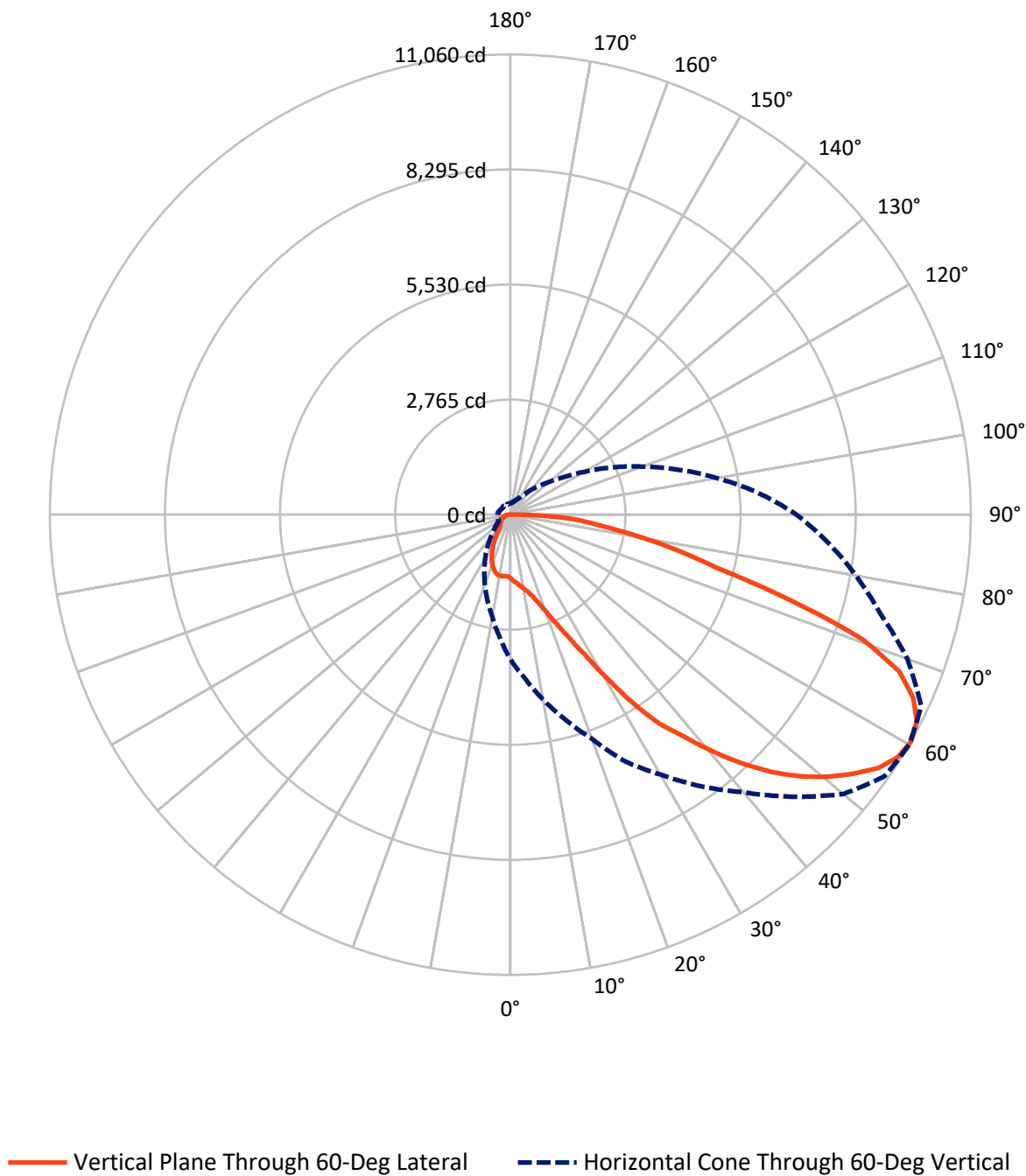


Based on 20 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2763.3	0.0	2763.3
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	9508.8	0.0	9508.8
	% Fixture	77.5	0.0	77.5
Total	Lumens	12272.1	0.0	12272.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	1.2
10°-20°	486.2	4.0
20°-30°	922.5	7.5
30°-40°	1452.8	11.8
40°-50°	2027.8	16.5
50°-60°	2507.9	20.4
60°-70°	2599.6	21.2
70°-80°	1635.8	13.3
80°-90°	489.0	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°	12272.1	100.0
0°-180°	12272.1	100.0

Coefficient of Utilization



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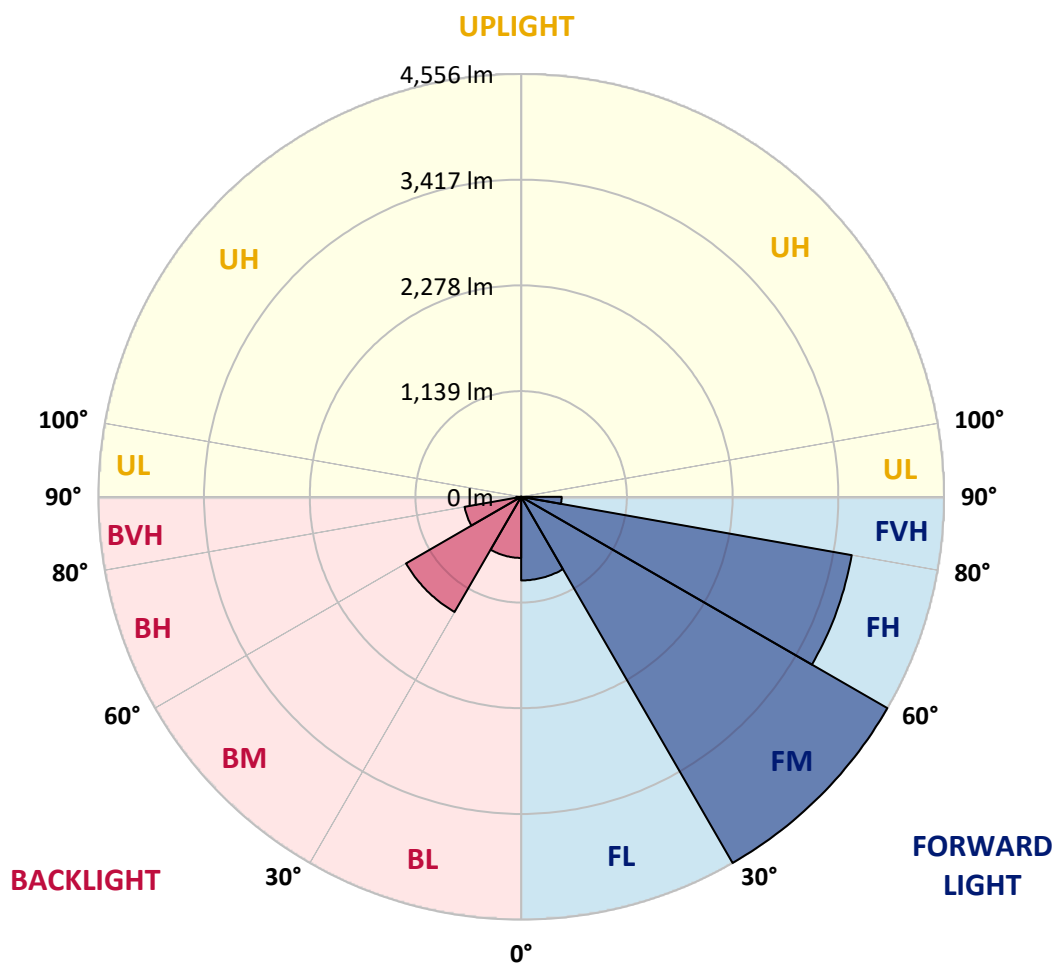
CATALOG NUMBER: VST-E05-LED-E-U-SLL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	901.0	7.3			
FM	(30°-60°)	4555.6	37.1			
FH	(60°-80°)	3616.5	29.5			G2/5000
FVH	(80°-90°)	435.8	3.6			G3/500
BL	(0°-30°)	658.3	5.4	B2/1000		
BM	(30°-60°)	1432.9	11.7	B2/2500		
BH	(60°-80°)	618.9	5.0	B2/1000		G2/1000
BVH	(80°-90°)	53.2	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°	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2
2.5°	1616.6	1614.8	1614.8	1614.8	1613.9	1612.1	1614.8	1613.9	1609.3	1606.6	1609.3
5°	1637.6	1638.6	1641.3	1642.2	1642.2	1644.9	1652.3	1653.2	1652.3	1654.1	1658.6
7.5°	1657.7	1662.3	1665.0	1669.6	1675.1	1679.7	1692.4	1705.2	1713.4	1719.8	1721.7
10°	1690.6	1697.9	1706.1	1718.0	1730.8	1753.6	1764.6	1777.4	1785.6	1798.4	1801.1
12.5°	1774.6	1783.8	1789.3	1807.5	1824.0	1845.9	1861.4	1865.1	1884.2	1895.2	1908.0
15°	1916.2	1929.9	1949.1	1960.0	1978.3	1997.5	2011.2	2029.5	2032.2	2046.8	2056.9
17.5°	2089.7	2108.9	2148.2	2174.7	2198.4	2217.6	2245.0	2266.0	2270.6	2287.0	2266.0
20°	2332.7	2379.3	2385.7	2438.6	2459.7	2498.0	2552.8	2562.9	2589.3	2562.9	2547.3
22.5°	2661.5	2734.6	2754.7	2805.8	2831.4	2889.8	2906.3	2960.2	2978.4	2958.3	2916.3
25°	3039.6	3152.9	3211.3	3289.9	3302.7	3422.3	3435.1	3498.1	3464.3	3415.9	3416.8
27.5°	3318.2	3510.9	3661.6	3795.9	3890.0	4025.1	4130.2	4159.4	4127.4	4064.4	4042.5
30°	3477.1	3695.4	3911.9	4097.3	4316.5	4522.9	4737.5	4844.4	4862.7	4895.6	4763.1
32.5°	3579.4	3859.8	4117.4	4346.6	4571.3	4837.1	5124.8	5399.7	5630.8	5805.3	5723.1
35°	3665.3	4011.4	4341.2	4618.8	4884.6	5174.1	5464.6	5788.8	6171.5	6395.3	6441.9
37.5°	3700.0	4122.9	4526.6	4882.8	5256.3	5582.4	5871.0	6159.6	6561.5	6960.6	7083.9
40°	3693.6	4177.7	4637.1	5084.6	5542.2	5949.6	6287.5	6629.1	7099.5	7566.2	7767.1
42.5°	3650.7	4185.9	4707.4	5218.9	5740.4	6282.0	6714.0	7107.7	7558.9	8157.1	8441.2
45°	3596.8	4157.6	4722.0	5287.4	5887.5	6514.0	7060.2	7547.0	8075.8	8666.8	9010.2
47.5°	3523.7	4112.8	4703.8	5311.1	5953.2	6662.9	7305.0	7890.4	8472.2	9152.7	9588.4
50°	3444.2	4048.9	4666.3	5293.8	5969.7	6744.2	7444.7	8111.5	8791.0	9525.3	10076.1
52.5°	3388.5	3980.4	4632.5	5258.2	5953.2	6768.8	7495.9	8230.2	8986.5	9745.4	10403.1
55°	3320.0	3889.0	4542.1	5175.0	5892.9	6755.1	7490.4	8271.3	9040.3	9830.4	10581.2
57.5°	3324.6	3847.0	4465.4	5075.5	5769.6	6628.2	7387.2	8230.2	8955.4	9775.6	10587.6
60°	3468.9	3937.5	4505.6	5095.6	5733.1	6547.8	7211.8	7965.3	8706.1	9586.5	10439.6
62.5°	3766.7	4195.9	4712.0	5296.5	5938.6	6708.6	7132.4	7525.1	8182.7	9238.5	10187.5
65°	4122.0	4509.2	4956.8	5513.0	6232.7	6969.8	7087.6	7167.1	7499.5	8561.7	9714.4
67.5°	4477.2	4823.4	5175.0	5636.3	6399.8	7044.7	6904.9	6715.9	6894.9	7775.4	8784.6
70°	4605.1	5064.5	5295.6	5612.5	6272.9	6870.2	6609.9	6134.1	6196.2	6996.3	7734.3
72.5°	4413.3	5068.2	5144.9	5262.7	5707.5	6269.2	5994.3	5382.4	5369.6	5980.6	6577.0
75°	3701.8	4623.4	4622.5	4578.6	4679.1	4998.8	4856.3	4487.3	4643.5	5124.8	5321.2
77.5°	2638.7	3607.7	3653.4	3358.4	3351.1	3495.4	3581.2	4010.5	4576.8	4847.2	4785.0
80°	1657.7	2434.1	2630.4	2266.0	2188.4	2393.0	2923.6	3548.4	4245.3	4488.2	4279.0
82.5°	998.3	1568.2	1986.5	1780.1	1761.9	2134.5	2720.9	2963.8	3173.0	3431.5	3081.6
85°	677.7	1044.9	1359.1	1400.2	1560.0	1945.4	2200.3	2092.5	2098.0	2030.4	1849.5
87.5°	129.7	285.0	465.8	568.1	630.2	846.7	920.7	833.9	880.5	643.9	704.2
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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CATALOG NUMBER: VST-E05-LED-E-U-SLL-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2
2.5°	1604.8	1604.8	1604.8	1600.2	1601.1	1594.7	1592.0	1592.0	1589.2	1589.2	1588.3
5°	1655.0	1649.5	1652.3	1651.3	1651.3	1642.2	1637.6	1637.6	1625.8	1626.7	1623.0
7.5°	1729.9	1729.0	1731.7	1726.2	1718.9	1711.6	1704.3	1700.7	1684.2	1674.2	1667.8
10°	1814.8	1813.9	1816.7	1815.7	1803.0	1789.3	1769.2	1754.5	1734.5	1718.9	1703.4
12.5°	1908.0	1907.1	1905.2	1897.0	1883.3	1861.4	1835.8	1811.2	1781.0	1760.9	1738.1
15°	2053.2	2050.5	2039.5	2027.6	2013.0	1979.2	1934.5	1898.9	1858.7	1824.0	1786.5
17.5°	2267.8	2245.0	2243.2	2216.7	2177.4	2132.7	2090.7	2031.3	1973.8	1921.7	1870.5
20°	2563.8	2510.8	2496.2	2466.0	2414.0	2367.4	2276.1	2196.6	2118.1	2046.8	1982.0
22.5°	2886.2	2847.8	2812.2	2762.9	2691.6	2624.1	2508.1	2408.5	2308.0	2216.7	2144.5
25°	3336.5	3269.8	3205.9	3127.3	3028.7	2948.3	2815.9	2715.4	2583.9	2500.8	2396.6
27.5°	3918.3	3804.1	3696.3	3628.7	3455.2	3338.3	3169.3	3039.6	2880.7	2768.4	2645.1
30°	4675.4	4543.0	4383.2	4149.4	3942.9	3710.9	3501.8	3335.6	3166.6	3009.5	2867.0
32.5°	5614.4	5380.5	5127.5	4756.7	4417.9	4087.2	3808.7	3604.1	3431.5	3236.0	3035.1
35°	6408.1	6166.9	5808.0	5336.7	4918.4	4540.3	4206.9	3927.4	3701.8	3454.3	3188.5
37.5°	7034.6	6759.7	6422.7	5922.2	5480.1	5049.9	4700.1	4343.9	4048.0	3707.3	3371.2
40°	7752.5	7476.7	7105.9	6587.1	6063.7	5597.0	5186.9	4818.8	4455.3	4039.7	3607.7
42.5°	8378.2	8179.1	7803.7	7267.5	6687.6	6167.9	5719.4	5298.3	4823.4	4358.5	3847.0
45°	9030.3	8827.5	8471.3	7910.5	7294.0	6715.0	6178.8	5725.8	5165.0	4611.5	4026.0
47.5°	9606.6	9398.4	9038.5	8481.4	7826.5	7216.4	6626.4	6078.3	5427.1	4791.4	4143.0
50°	10156.5	9901.6	9571.9	9016.6	8317.0	7664.8	7024.6	6321.3	5630.8	4917.5	4222.4
52.5°	10661.5	10337.3	10024.9	9453.2	8696.9	8015.6	7301.3	6527.7	5755.9	5017.0	4276.3
55°	10948.3	10739.2	10365.6	9803.9	8967.3	8256.7	7476.7	6672.9	5880.1	5087.4	4299.1
57.5°	11036.9	10985.8	10672.5	10006.7	9126.2	8389.1	7595.4	6788.0	5963.3	5107.5	4267.2
60°	10966.6	11059.8	10888.0	10149.1	9198.4	8428.4	7653.9	6870.2	5977.9	5043.5	4170.4
62.5°	10741.0	10952.9	10931.0	10196.6	9160.9	8379.1	7647.5	6828.2	5840.9	4844.4	3953.0
65°	10370.2	10636.9	10731.0	10020.4	8949.9	8199.1	7484.9	6564.2	5460.0	4455.3	3588.6
67.5°	9672.4	10076.1	10167.4	9443.1	8398.3	7701.4	7016.4	6016.2	4754.9	3853.4	3019.5
70°	8274.0	8980.1	9103.4	8343.5	7425.5	6813.6	6232.7	5147.6	3959.4	3090.8	2317.2
72.5°	6605.3	7049.2	7301.3	6778.0	6094.8	5650.9	5210.7	3949.3	2987.6	2280.6	1594.7
75°	5164.1	5137.6	5363.2	5015.2	4613.3	4406.0	4075.4	2755.6	2001.2	1510.7	1009.3
77.5°	4415.1	4075.4	3818.7	3573.9	3335.6	3269.8	2952.9	1709.8	1236.7	905.1	603.7
80°	3669.8	3049.7	2581.1	2236.8	2151.9	2281.5	1932.6	1008.3	732.5	519.7	379.0
82.5°	2622.2	2193.9	1785.6	1567.3	1422.1	1628.5	1139.9	559.9	397.3	311.5	251.2
85°	1699.7	1624.9	1607.5	1536.3	1360.0	1284.2	865.9	482.2	297.8	193.6	156.2
87.5°	654.0	838.5	967.2	1036.7	1120.7	998.3	451.2	166.2	163.5	100.5	75.8
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°	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2
2.5°	1581.9	1578.3	1577.4	1574.6	1572.8	1572.8	1568.2	1485.1	1484.2	1484.2	1483.3
5°	1615.7	1611.2	1606.6	1605.7	1602.0	1602.0	1597.4	1514.3	1514.3	1514.3	1512.5
7.5°	1661.4	1652.3	1646.8	1644.0	1638.6	1641.3	1644.9	1560.9	1561.8	1560.9	1562.7
10°	1694.3	1688.8	1682.4	1680.6	1676.9	1679.7	1685.1	1602.0	1604.8	1605.7	1607.5
12.5°	1726.2	1717.1	1708.9	1706.1	1704.3	1711.6	1718.0	1637.6	1640.4	1643.1	1643.1
15°	1765.5	1750.0	1739.0	1732.6	1729.0	1736.3	1745.4	1666.0	1666.9	1669.6	1668.7
17.5°	1832.2	1809.3	1783.8	1779.2	1767.3	1770.1	1771.9	1683.3	1679.7	1673.3	1662.3
20°	1935.4	1900.7	1866.0	1851.4	1827.6	1817.6	1797.5	1684.2	1661.4	1642.2	1625.8
22.5°	2083.4	2032.2	1994.8	1970.1	1921.7	1887.9	1833.1	1679.7	1636.7	1603.8	1578.3
25°	2322.6	2261.5	2203.9	2141.8	2066.0	1998.4	1918.0	1719.8	1653.2	1596.5	1547.2
27.5°	2555.6	2458.7	2370.1	2277.0	2170.1	2068.7	1955.5	1732.6	1656.8	1583.7	1503.4
30°	2730.0	2589.3	2455.1	2319.0	2179.3	2047.7	1919.9	1688.8	1598.4	1516.2	1431.2
32.5°	2836.0	2653.3	2478.8	2309.9	2145.5	1997.5	1854.1	1613.0	1513.4	1416.6	1326.2
35°	2936.4	2709.9	2493.4	2294.3	2106.2	1941.8	1787.4	1524.4	1405.6	1302.4	1188.3
37.5°	3060.6	2769.3	2502.6	2266.0	2048.6	1860.5	1690.6	1413.0	1294.2	1167.3	1059.5
40°	3209.5	2830.5	2493.4	2209.4	1959.1	1753.6	1573.7	1296.0	1163.6	1040.3	934.4
42.5°	3351.1	2884.4	2469.7	2133.6	1861.4	1642.2	1466.8	1191.9	1059.5	933.4	828.4
45°	3456.1	2930.0	2457.8	2080.6	1786.5	1566.4	1372.8	1107.9	968.2	841.2	734.3
47.5°	3529.2	2957.4	2452.3	2051.4	1734.5	1487.8	1286.9	1023.9	876.8	748.9	644.8
50°	3567.5	2956.5	2438.6	2019.4	1657.7	1393.8	1198.3	938.9	792.8	667.7	572.7
52.5°	3577.6	2940.1	2409.4	1961.0	1564.6	1299.7	1103.3	850.3	718.8	599.2	503.3
55°	3554.8	2899.9	2348.2	1863.2	1465.0	1200.1	1016.6	780.9	646.7	533.4	458.5
57.5°	3489.9	2828.6	2233.1	1729.0	1360.0	1107.9	917.0	696.9	568.1	473.1	411.0
60°	3369.3	2677.9	2053.2	1570.0	1226.6	967.2	780.0	587.3	485.0	413.7	363.5
62.5°	3146.5	2441.4	1800.2	1350.8	1034.8	784.6	622.9	468.5	391.8	345.2	314.2
65°	2787.5	2085.2	1507.0	1064.1	786.4	570.8	463.1	352.6	296.8	268.5	259.4
67.5°	2275.2	1610.2	1096.0	738.9	532.5	400.0	322.4	257.6	231.1	220.1	216.5
70°	1654.1	1096.9	709.7	466.7	351.6	279.5	243.9	207.3	192.7	190.0	190.0
72.5°	1038.5	666.7	434.8	319.7	266.7	226.5	208.2	182.7	177.2	175.4	172.6
75°	609.2	404.6	307.8	262.1	228.3	202.8	187.2	166.2	162.6	161.7	158.9
77.5°	388.2	291.4	248.4	223.8	206.4	183.6	169.9	148.0	147.0	146.1	145.2
80°	278.6	242.0	217.4	198.2	180.8	159.8	151.6	134.3	132.4	131.5	133.3
82.5°	211.0	200.0	190.0	175.4	151.6	136.1	129.7	117.8	118.7	114.2	113.3
85°	145.2	143.4	142.5	136.1	118.7	105.0	100.5	94.1	98.6	94.1	88.6
87.5°	71.2	70.3	64.8	76.7	71.2	56.6	51.1	56.6	63.0	61.2	56.6
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-E05-LED-E-U-SLL-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2
2.5°	1479.6	1476.0	1478.7	1476.9	1476.9	1476.0	1477.8	1475.1	1473.2	1475.1	1476.0
5°	1508.9	1504.3	1505.2	1498.8	1501.5	1495.2	1497.0	1492.4	1487.8	1486.0	1486.0
7.5°	1558.2	1553.6	1548.1	1547.2	1537.2	1533.5	1527.1	1523.5	1520.7	1514.3	1510.7
10°	1602.9	1595.6	1589.2	1588.3	1578.3	1569.1	1560.9	1553.6	1549.0	1539.9	1535.3
12.5°	1639.5	1632.2	1622.1	1616.6	1606.6	1595.6	1590.1	1579.2	1572.8	1562.7	1554.5
15°	1660.5	1647.7	1633.1	1623.0	1608.4	1596.5	1588.3	1580.1	1573.7	1560.9	1549.0
17.5°	1650.4	1629.4	1609.3	1591.1	1571.0	1560.0	1548.1	1538.1	1536.3	1521.6	1503.4
20°	1608.4	1583.7	1557.3	1532.6	1506.1	1490.6	1476.0	1460.4	1455.9	1438.5	1414.8
22.5°	1557.3	1528.9	1498.8	1468.7	1434.9	1413.0	1391.0	1371.9	1356.3	1330.8	1297.0
25°	1505.2	1463.2	1419.3	1381.0	1341.7	1314.3	1291.5	1270.5	1252.2	1211.1	1176.4
27.5°	1436.7	1370.9	1326.2	1282.3	1234.8	1199.2	1173.7	1144.4	1124.3	1076.8	1040.3
30°	1349.0	1283.3	1219.3	1175.5	1128.0	1089.6	1056.7	1014.7	985.5	950.8	917.0
32.5°	1238.5	1172.7	1107.9	1058.6	1019.3	971.8	930.7	890.5	856.7	822.9	796.4
35°	1104.2	1040.3	979.1	929.8	885.9	848.5	809.2	774.5	736.2	699.6	684.1
37.5°	962.7	894.2	826.6	783.7	748.9	722.5	685.9	657.6	622.9	601.0	582.7
40°	839.4	766.3	702.4	665.8	638.4	608.3	578.2	556.2	531.6	509.6	495.9
42.5°	735.2	666.7	611.9	580.9	548.0	515.1	492.3	474.0	458.5	442.1	425.6
45°	639.3	573.6	527.9	489.6	462.2	435.7	420.1	411.9	402.8	392.7	381.8
47.5°	559.0	502.3	457.6	422.0	393.7	375.4	368.1	365.3	361.7	353.5	348.0
50°	497.8	451.2	405.5	373.6	349.8	340.7	332.5	329.7	325.2	322.4	318.8
52.5°	446.6	397.3	358.9	329.7	315.1	311.5	307.8	304.1	303.2	301.4	299.6
55°	404.6	361.7	326.1	304.1	296.8	294.1	293.2	289.5	288.6	288.6	285.9
57.5°	367.2	330.6	298.7	285.0	280.4	277.7	275.8	274.0	274.0	275.8	274.9
60°	328.8	297.8	278.6	271.3	268.5	264.0	259.4	257.6	258.5	263.0	263.0
62.5°	291.4	268.5	256.7	253.9	251.2	247.5	242.0	240.2	242.0	247.5	250.3
65°	250.3	240.2	236.6	234.7	232.9	230.2	226.5	224.7	225.6	228.3	232.0
67.5°	212.8	211.9	211.9	212.8	211.9	211.0	209.2	206.4	205.5	205.5	207.3
70°	190.0	190.0	192.7	192.7	191.8	191.8	189.1	186.3	184.5	182.7	183.6
72.5°	172.6	172.6	173.5	174.4	173.5	173.5	169.9	168.1	163.5	162.6	160.7
75°	158.0	156.2	156.2	155.3	154.4	155.3	151.6	147.0	145.2	144.3	142.5
77.5°	143.4	139.7	137.9	136.1	137.0	136.1	133.3	130.6	127.9	127.0	126.0
80°	127.0	121.5	118.7	114.2	116.9	117.8	116.0	113.3	112.3	111.4	110.5
82.5°	105.0	99.6	95.9	93.2	91.3	93.2	95.9	102.3	100.5	99.6	97.7
85°	82.2	73.1	68.5	69.4	64.8	65.8	74.0	77.6	77.6	79.5	77.6
87.5°	46.6	44.8	33.8	31.1	32.9	39.3	43.8	48.4	48.4	45.7	51.1
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°	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2
2.5°	1476.0	1477.8	1478.7	1482.4	1484.2	1485.1	1486.0	1487.8	1488.8	1487.8	1492.4
5°	1483.3	1483.3	1481.5	1484.2	1485.1	1485.1	1483.3	1485.1	1485.1	1485.1	1489.7
7.5°	1502.5	1497.0	1494.2	1490.6	1487.8	1484.2	1479.6	1479.6	1478.7	1479.6	1482.4
10°	1522.6	1514.3	1504.3	1495.2	1486.9	1480.5	1472.3	1469.6	1468.7	1467.8	1475.1
12.5°	1538.1	1523.5	1507.9	1492.4	1476.0	1465.0	1451.3	1443.1	1442.2	1442.2	1451.3
15°	1527.1	1503.4	1473.2	1445.8	1431.2	1415.7	1400.2	1390.1	1389.2	1391.0	1396.5
17.5°	1472.3	1434.0	1407.5	1381.0	1361.8	1349.0	1339.0	1337.1	1340.8	1337.1	1344.5
20°	1379.2	1338.1	1319.8	1298.8	1291.5	1282.3	1267.7	1254.9	1254.9	1238.5	1243.1
22.5°	1258.6	1235.8	1212.0	1195.6	1190.1	1174.6	1159.0	1141.7	1139.9	1119.8	1117.0
25°	1132.6	1109.7	1090.5	1086.9	1070.4	1049.4	1034.8	1014.7	1010.2	990.1	987.3
27.5°	1003.8	985.5	966.3	955.4	946.2	923.4	910.6	886.9	877.7	855.8	853.1
30°	881.4	868.6	845.8	836.6	819.3	792.8	765.4	750.8	743.5	720.6	713.3
32.5°	766.3	746.2	728.9	717.9	696.0	665.8	641.2	620.2	606.5	579.1	571.8
35°	656.7	636.6	628.4	600.1	580.9	560.8	527.0	514.2	489.6	468.5	461.2
37.5°	559.9	540.7	529.7	506.0	486.8	466.7	446.6	430.2	418.3	413.7	413.7
40°	476.8	466.7	453.0	435.7	422.9	408.3	397.3	391.8	390.9	392.7	397.3
42.5°	417.4	406.4	397.3	388.2	379.0	377.2	374.5	378.1	382.7	387.3	391.8
45°	372.6	363.5	358.0	354.4	353.5	356.2	361.7	367.2	375.4	380.9	384.5
47.5°	340.7	333.4	331.5	330.6	335.2	343.4	350.7	358.9	365.3	370.8	374.5
50°	313.3	306.9	306.0	305.1	311.5	318.8	325.2	336.1	340.7	344.3	347.1
52.5°	294.1	288.6	285.9	286.8	293.2	299.6	308.7	316.9	323.3	326.1	328.8
55°	278.6	276.7	270.4	273.1	279.5	287.7	296.8	306.0	312.4	316.9	321.5
57.5°	266.7	262.1	257.6	262.1	268.5	276.7	287.7	295.9	304.1	310.5	315.1
60°	253.9	250.3	246.6	251.2	257.6	265.8	274.0	285.0	295.0	301.4	306.0
62.5°	243.0	240.2	236.6	237.5	240.2	245.7	250.3	260.3	269.4	277.7	283.1
65°	227.4	226.5	221.0	221.9	223.8	229.3	232.9	242.0	251.2	258.5	263.0
67.5°	204.6	202.8	202.8	205.5	206.4	209.2	211.9	221.0	228.3	233.8	239.3
70°	181.8	180.8	180.8	182.7	181.8	184.5	188.2	196.4	205.5	211.0	216.5
72.5°	159.8	159.8	158.9	160.7	160.7	161.7	166.2	173.5	181.8	186.3	190.0
75°	140.7	139.7	139.7	139.7	140.7	140.7	145.2	151.6	159.8	162.6	168.1
77.5°	123.3	123.3	123.3	123.3	124.2	123.3	126.0	130.6	133.3	137.9	137.9
80°	108.7	107.8	108.7	109.6	109.6	108.7	108.7	109.6	110.5	110.5	110.5
82.5°	95.9	93.2	95.0	99.6	99.6	99.6	98.6	92.2	87.7	87.7	89.5
85°	76.7	76.7	77.6	84.0	84.9	81.3	84.9	75.8	66.7	63.9	65.8
87.5°	47.5	37.4	45.7	52.1	52.1	49.3	54.8	51.1	42.9	34.7	32.9
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°	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	0°
2.5°	1496.1	1497.0	1502.5	1505.2	1505.2	1508.9	1510.7	1516.2	1515.2	1515.2	1517.1	2.5°
5°	1494.2	1497.0	1502.5	1506.1	1507.9	1512.5	1516.2	1522.6	1521.6	1523.5	1524.4	5°
7.5°	1487.8	1495.2	1500.6	1507.9	1514.3	1518.0	1522.6	1528.0	1526.2	1527.1	1526.2	7.5°
10°	1482.4	1489.7	1500.6	1510.7	1519.8	1525.3	1528.0	1534.4	1533.5	1535.3	1535.3	10°
12.5°	1460.4	1473.2	1486.9	1502.5	1516.2	1530.8	1539.9	1553.6	1560.0	1568.2	1577.4	12.5°
15°	1404.7	1419.3	1441.3	1458.6	1485.1	1505.2	1531.7	1558.2	1581.9	1604.8	1631.2	15°
17.5°	1349.9	1356.3	1373.7	1397.4	1421.2	1451.3	1483.3	1530.8	1573.7	1620.3	1671.4	17.5°
20°	1248.5	1259.5	1271.4	1299.7	1328.0	1370.9	1410.2	1472.3	1535.3	1608.4	1687.0	20°
22.5°	1123.4	1134.4	1147.2	1179.1	1213.8	1257.7	1305.2	1374.6	1458.6	1553.6	1658.6	22.5°
25°	988.2	994.6	1004.7	1036.7	1057.7	1115.2	1172.7	1244.9	1336.2	1458.6	1581.0	25°
27.5°	839.4	851.2	859.5	874.1	922.5	971.8	1032.1	1109.7	1220.2	1345.4	1493.3	27.5°
30°	696.9	706.9	702.4	733.4	765.4	817.4	882.3	968.2	1074.1	1223.0	1393.8	30°
32.5°	557.1	564.5	561.7	583.6	615.6	667.7	728.9	822.0	934.4	1093.3	1278.7	32.5°
35°	459.4	461.2	471.3	481.3	508.7	550.8	602.8	684.1	799.2	945.3	1141.7	35°
37.5°	413.7	417.4	423.8	437.5	457.6	487.7	530.7	593.7	692.3	821.1	996.5	37.5°
40°	400.0	402.8	406.4	415.6	434.8	461.2	499.6	552.6	624.7	733.4	875.9	40°
42.5°	393.7	393.7	393.7	399.1	413.7	442.1	485.9	538.0	601.0	683.2	798.3	42.5°
45°	384.5	384.5	383.6	386.3	396.4	424.7	472.2	530.7	598.2	676.8	776.3	45°
47.5°	374.5	373.6	370.8	370.8	377.2	405.5	454.8	517.9	591.9	682.3	789.1	47.5°
50°	347.1	347.1	347.1	349.8	355.3	380.9	433.8	500.5	585.5	685.9	809.2	50°
52.5°	331.5	332.5	335.2	335.2	340.7	367.2	422.9	496.9	589.1	699.6	834.8	52.5°
55°	324.2	327.0	329.7	329.7	334.3	361.7	419.2	499.6	602.8	727.9	878.6	55°
57.5°	317.8	320.6	322.4	322.4	326.1	349.8	409.2	495.0	611.0	755.3	932.5	57.5°
60°	306.0	307.8	308.7	308.7	309.6	329.7	386.3	473.1	592.8	753.5	961.8	60°
62.5°	284.1	287.7	288.6	289.5	289.5	308.7	357.1	437.5	553.5	726.1	953.5	62.5°
65°	267.6	269.4	272.2	274.0	277.7	290.4	328.8	394.6	502.3	671.3	907.9	65°
67.5°	242.0	244.8	247.5	251.2	254.8	263.0	293.2	346.2	432.9	578.2	805.6	67.5°
70°	219.2	220.1	222.9	227.4	228.3	232.9	254.8	291.4	354.4	464.0	648.5	70°
72.5°	190.9	192.7	196.4	201.9	201.9	205.5	218.3	237.5	277.7	354.4	478.6	72.5°
75°	166.2	168.1	170.8	170.8	166.2	167.1	176.3	190.0	220.1	266.7	348.9	75°
77.5°	137.9	141.6	144.3	138.8	137.0	139.7	144.3	154.4	176.3	211.9	262.1	77.5°
80°	114.2	116.0	116.9	117.8	116.0	118.7	122.4	128.8	143.4	170.8	207.3	80°
82.5°	91.3	93.2	95.9	99.6	99.6	109.6	110.5	110.5	118.7	136.1	162.6	82.5°
85°	67.6	71.2	74.9	79.5	80.4	85.9	83.1	82.2	84.9	101.4	112.3	85°
87.5°	34.7	37.4	39.3	42.9	38.4	40.2	40.2	37.4	32.9	41.1	45.7	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°

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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1526.2	1526.2	1526.2	1526.2	1526.2	1526.2	1526.2
1518.9	1517.1	1518.9	1518.9	1521.6	1519.8	1616.6
1526.2	1524.4	1526.2	1528.0	1530.8	1530.8	1637.6
1527.1	1527.1	1525.3	1529.9	1533.5	1537.2	1657.7
1538.1	1538.1	1539.9	1540.8	1549.0	1558.2	1690.6
1582.8	1587.4	1595.6	1598.4	1613.0	1623.0	1774.6
1651.3	1676.9	1693.4	1698.8	1711.6	1730.8	1916.2
1720.8	1763.7	1808.4	1835.8	1852.3	1875.1	2089.7
1772.8	1853.2	1929.9	1998.4	2037.7	2082.4	2332.7
1777.4	1905.2	2034.9	2161.9	2266.9	2350.1	2661.5
1733.5	1901.6	2080.6	2275.2	2456.0	2605.8	3039.6
1677.8	1884.2	2112.6	2361.0	2598.5	2819.5	3318.2
1607.5	1855.0	2118.1	2397.5	2676.1	2941.9	3477.1
1500.6	1768.2	2052.3	2361.0	2684.3	3007.7	3579.4
1363.6	1636.7	1928.1	2279.7	2646.0	3034.1	3665.3
1223.9	1493.3	1806.6	2171.0	2584.8	3029.6	3700.0
1075.9	1343.5	1664.1	2055.0	2501.7	2987.6	3693.6
975.5	1219.3	1533.5	1937.2	2409.4	2931.9	3650.7
917.0	1130.7	1430.3	1829.4	2325.4	2865.2	3596.8
916.1	1104.2	1375.5	1752.7	2240.4	2791.2	3523.7
948.1	1120.7	1369.1	1719.8	2193.9	2737.3	3444.2
985.5	1166.3	1402.9	1731.7	2193.0	2713.6	3388.5
1044.9	1244.0	1476.9	1782.9	2216.7	2709.9	3320.0
1120.7	1349.0	1610.2	1908.9	2308.9	2782.1	3324.6
1198.3	1472.3	1784.7	2124.5	2490.7	2950.1	3468.9
1226.6	1567.3	1961.9	2377.5	2762.9	3202.2	3766.7
1202.0	1589.2	2069.7	2573.8	3027.8	3497.2	4122.0
1110.6	1500.6	2025.8	2629.5	3180.3	3706.4	4477.2
914.3	1280.5	1826.7	2504.4	3168.4	3749.3	4605.1
670.4	992.8	1485.1	2128.1	2816.8	3480.8	4413.3
484.1	702.4	1072.3	1602.9	2226.7	2803.1	3701.8
347.1	486.8	696.0	1053.1	1517.1	1951.8	2638.7
249.3	330.6	433.8	632.0	924.3	1198.3	1657.7
183.6	226.5	285.0	392.7	544.4	697.8	998.3
125.1	133.3	171.7	232.0	357.1	513.3	677.7
47.5	53.9	63.0	95.0	159.8	183.6	129.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)