

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: P159128

Luminaire Tested: **VST-E07-LED-E-U-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159128
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-E07-LED-E-U-SLR-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (147) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15876.3 lumens
Efficiency: N/A
Efficacy: 92.0 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 - G4

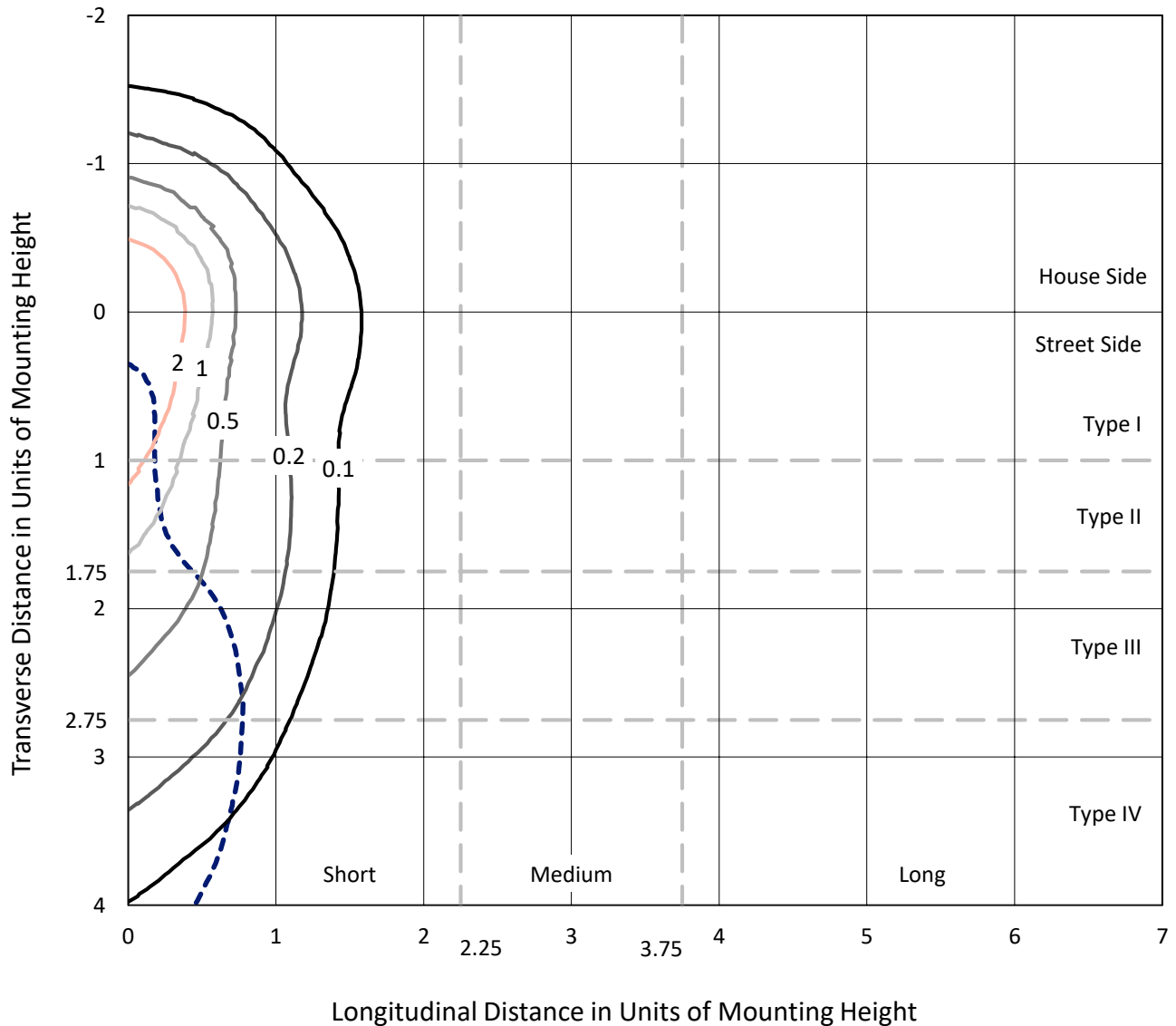
Input Watts (W): 172.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P159128
 CATALOG NUMBER: VST-E07-LED-E-U-SLR-8030

Iso-Footcandle Lines of Horizontal Illumination

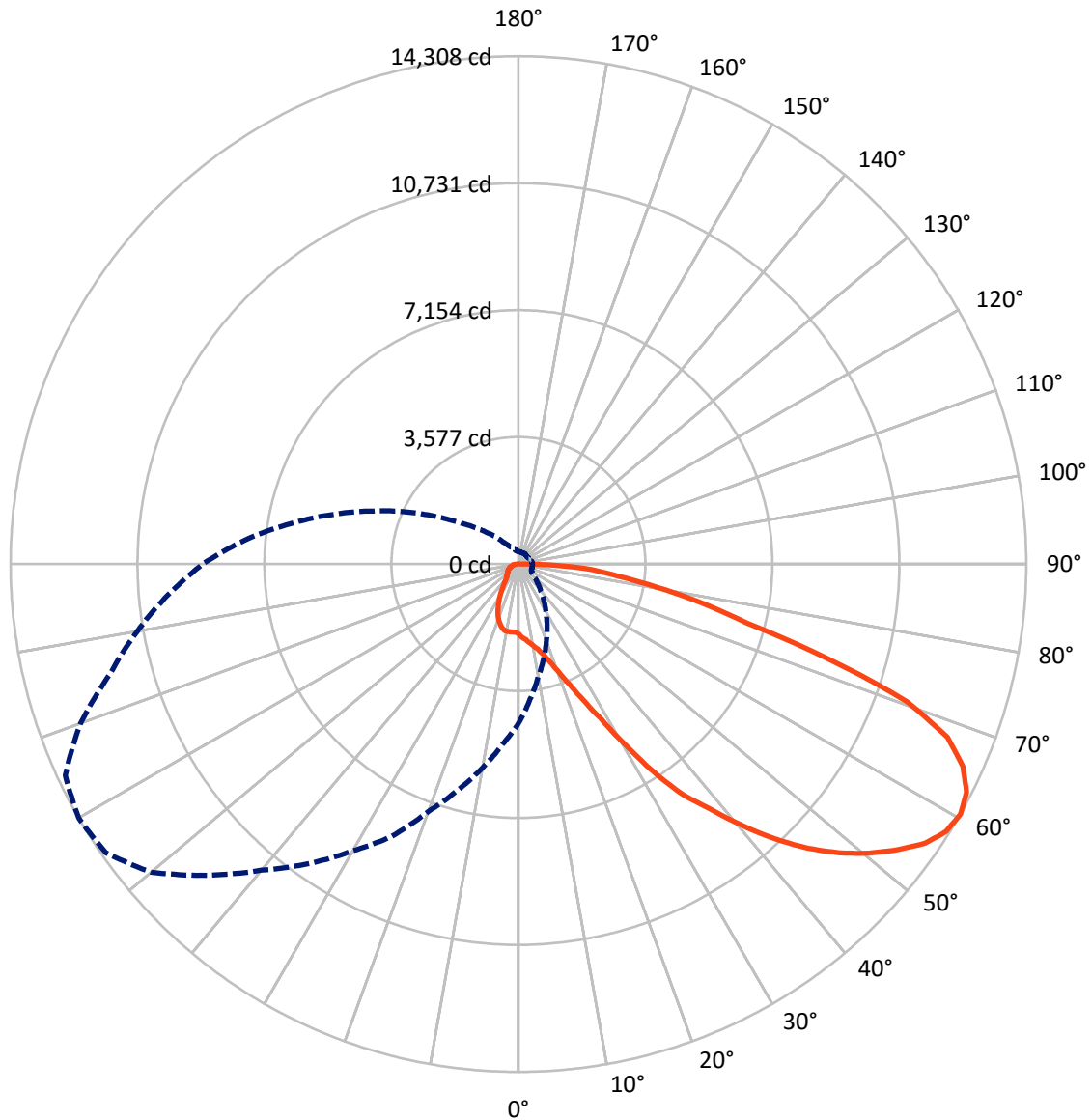
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P159128
CATALOG NUMBER: VST-E07-LED-E-U-SLR-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P159128

CATALOG NUMBER: VST-E07-LED-E-U-SLR-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3574.8	0.0	3574.8
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	12301.4	0.0	12301.4
	% Fixture	77.5	0.0	77.5
Total	Lumens	15876.3	0.0	15876.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.8	1.2
10°-20°	628.9	4.0
20°-30°	1193.5	7.5
30°-40°	1879.5	11.8
40°-50°	2623.3	16.5
50°-60°	3244.5	20.4
60°-70°	3363.1	21.2
70°-80°	2116.2	13.3
80°-90°	632.6	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°	15876.3	100.0
0°-180°	15876.3	100.0



REPORT NUMBER: P159128

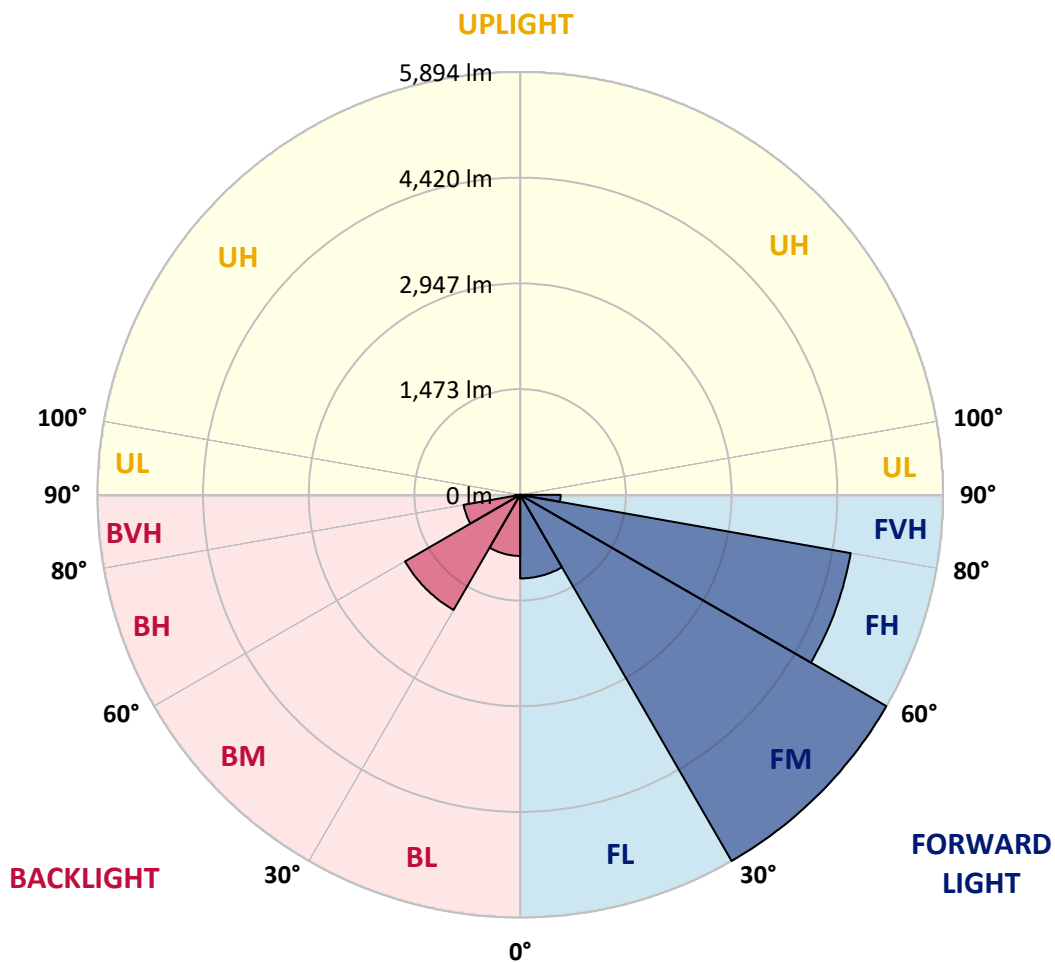
CATALOG NUMBER: VST-E07-LED-E-U-SLR-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1165.6	7.3			
FM	(30°-60°)	5893.5	37.1			
FH	(60°-80°)	4678.6	29.5			G2/5000
FVH	(80°-90°)	563.8	3.6			G4/750
BL	(0°-30°)	851.7	5.4	B2/1000		
BM	(30°-60°)	1853.8	11.7	B2/2500		
BH	(60°-80°)	800.6	5.0	B2/1000		G2/1000
BVH	(80°-90°)	68.8	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-G4

Type IV Short





REPORT NUMBER: P159128

CATALOG NUMBER: VST-E07-LED-E-U-SLR-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4
2.5°	2091.4	1966.2	1968.5	1965.0	1965.0	1962.6	1965.0	1962.6	1960.3	1960.3	1961.4
5°	2118.6	1980.3	1980.3	1976.8	1974.4	1972.1	1974.4	1972.1	1970.9	1968.5	1969.7
7.5°	2144.6	1988.6	1983.9	1979.2	1973.3	1975.6	1975.6	1974.4	1975.6	1974.4	1976.8
10°	2187.1	2015.8	2004.0	1993.3	1992.2	1989.8	1989.8	1986.2	1986.2	1983.9	1985.1
12.5°	2295.8	2099.7	2086.7	2067.8	2064.2	2053.6	2047.7	2040.6	2028.8	2018.2	2009.9
15°	2479.0	2239.1	2214.3	2197.8	2190.7	2169.4	2136.3	2110.3	2076.0	2046.5	2015.8
17.5°	2703.5	2425.8	2396.3	2375.0	2339.5	2281.6	2226.1	2162.3	2096.1	2035.9	1980.3
20°	3017.8	2694.0	2636.1	2585.3	2496.7	2397.4	2293.5	2182.4	2080.8	1986.2	1904.7
22.5°	3443.1	3040.2	2932.7	2796.8	2632.6	2464.8	2299.4	2145.8	2009.9	1887.0	1778.3
25°	3932.3	3371.1	3177.3	2943.3	2691.7	2460.1	2242.7	2045.3	1887.0	1728.7	1610.5
27.5°	4292.7	3647.6	3361.6	3054.4	2733.0	2437.6	2170.6	1931.9	1740.5	1578.6	1435.6
30°	4498.3	3805.9	3462.1	3101.7	2740.1	2399.8	2079.6	1803.1	1582.1	1389.5	1252.5
32.5°	4630.6	3891.0	3472.7	3054.4	2655.0	2287.6	1941.3	1654.2	1414.4	1208.8	1063.4
35°	4741.7	3925.2	3423.1	2949.2	2494.3	2117.4	1764.1	1477.0	1222.9	1033.9	885.0
37.5°	4786.6	3919.3	3343.9	2808.6	2337.2	1931.9	1583.3	1289.1	1062.2	895.6	768.0
40°	4778.3	3865.0	3236.4	2658.6	2152.9	1738.1	1391.9	1133.1	948.8	808.2	714.9
42.5°	4722.8	3792.9	3117.0	2506.1	1983.9	1577.4	1261.9	1032.7	883.8	777.5	696.0
45°	4653.1	3706.6	3008.3	2366.7	1850.4	1462.8	1186.3	1004.3	875.6	773.9	686.5
47.5°	4558.6	3610.9	2898.4	2267.5	1779.5	1428.5	1185.1	1020.9	882.6	765.7	670.0
50°	4455.8	3541.2	2838.2	2224.9	1771.2	1449.8	1226.5	1046.9	887.4	757.4	647.5
52.5°	4383.7	3510.5	2837.0	2240.3	1814.9	1508.9	1274.9	1080.0	905.1	762.1	642.8
55°	4295.1	3505.8	2867.7	2306.5	1910.6	1609.3	1351.7	1136.7	941.7	779.8	646.3
57.5°	4301.0	3599.1	2987.1	2469.5	2083.1	1745.2	1449.8	1206.4	977.2	790.5	640.4
60°	4487.7	3816.5	3222.2	2748.4	2308.8	1904.7	1550.2	1244.2	974.8	766.9	612.1
62.5°	4872.9	4142.6	3574.3	3075.7	2538.0	2027.6	1586.9	1233.6	939.4	716.0	566.0
65°	5332.5	4524.3	3917.0	3329.7	2677.5	2056.0	1555.0	1174.5	868.5	649.9	510.4
67.5°	5792.1	4794.9	4114.3	3401.8	2620.8	1941.3	1436.8	1042.2	747.9	560.1	447.8
70°	5957.6	4850.4	4098.9	3239.9	2363.2	1656.6	1182.8	838.9	600.2	458.5	376.9
72.5°	5709.4	4503.0	3644.0	2753.1	1921.3	1284.4	867.3	619.2	458.5	359.2	307.2
75°	4789.0	3626.3	2880.7	2073.7	1387.2	908.6	626.2	451.4	345.0	284.8	245.8
77.5°	3413.6	2525.1	1962.6	1362.4	900.4	629.8	449.0	339.1	274.1	228.0	199.7
80°	2144.6	1550.2	1195.8	817.7	561.3	427.7	322.6	268.2	221.0	185.5	166.6
82.5°	1291.5	902.7	704.2	508.1	368.7	293.0	237.5	210.3	176.1	153.6	143.0
85°	876.7	664.1	462.0	300.1	222.1	172.5	161.9	145.3	131.2	109.9	106.3
87.5°	167.8	237.5	206.8	122.9	81.5	69.7	61.4	59.1	53.2	42.5	48.4
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: P159128

CATALOG NUMBER: VST-E07-LED-E-U-SLR-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4
2.5°	1954.3	1952.0	1947.3	1947.3	1943.7	1936.6	1935.4	1930.7	1924.8	1926.0	1924.8
5°	1961.4	1956.7	1950.8	1948.4	1943.7	1936.6	1933.1	1927.2	1921.3	1921.3	1921.3
7.5°	1969.7	1963.8	1959.1	1950.8	1941.3	1934.3	1924.8	1917.7	1914.2	1913.0	1914.2
10°	1976.8	1973.3	1966.2	1954.3	1941.3	1927.2	1917.7	1908.3	1898.8	1900.0	1901.2
12.5°	1992.2	1980.3	1961.4	1943.7	1923.6	1905.9	1889.4	1877.5	1865.7	1865.7	1866.9
15°	1981.5	1947.3	1921.3	1887.0	1864.5	1836.2	1817.3	1806.6	1799.6	1797.2	1798.4
17.5°	1918.9	1877.5	1838.5	1807.8	1777.1	1754.7	1746.4	1739.3	1729.8	1734.6	1729.8
20°	1824.4	1773.6	1718.0	1681.4	1644.8	1629.4	1615.2	1608.1	1602.2	1623.5	1623.5
22.5°	1688.5	1627.0	1570.3	1525.4	1484.1	1467.5	1453.4	1445.1	1448.6	1474.6	1477.0
25°	1517.2	1442.7	1368.3	1341.1	1299.7	1286.7	1278.5	1277.3	1280.8	1306.8	1312.7
27.5°	1335.2	1257.2	1193.4	1130.8	1111.9	1101.2	1085.9	1103.6	1107.1	1135.5	1147.3
30°	1141.4	1057.5	990.2	948.8	908.6	914.5	901.6	922.8	932.3	961.8	971.3
32.5°	942.9	863.7	796.4	755.0	726.7	730.2	720.8	739.7	749.1	784.6	802.3
35°	779.8	712.5	658.1	622.7	609.7	596.7	594.3	596.7	606.2	633.3	665.2
37.5°	686.5	631.0	592.0	566.0	548.3	540.0	535.3	535.3	535.3	541.2	556.5
40°	646.3	596.7	562.4	537.6	525.8	521.1	517.5	514.0	508.1	505.7	506.9
42.5°	628.6	571.9	535.3	516.4	509.3	509.3	509.3	506.9	501.0	495.1	489.2
45°	610.9	549.4	512.8	499.8	496.3	497.4	497.4	497.4	492.7	485.6	475.0
47.5°	588.4	524.6	488.0	479.7	479.7	483.3	484.5	484.5	479.7	472.6	464.4
50°	561.3	492.7	459.6	452.5	449.0	449.0	449.0	449.0	445.5	440.7	434.8
52.5°	547.1	475.0	440.7	433.6	433.6	430.1	428.9	425.4	421.8	418.3	410.0
55°	542.3	467.9	432.5	426.6	426.6	423.0	419.5	415.9	410.0	404.1	395.8
57.5°	529.4	452.5	421.8	417.1	417.1	414.7	411.2	407.6	401.7	393.5	382.8
60°	499.8	426.6	400.6	399.4	399.4	398.2	395.8	395.8	389.9	381.7	368.7
62.5°	462.0	399.4	374.6	374.6	373.4	372.2	367.5	366.3	359.2	348.6	336.8
65°	425.4	375.7	359.2	354.5	352.1	348.6	346.2	340.3	334.4	324.9	313.1
67.5°	379.3	340.3	329.7	324.9	320.2	316.7	313.1	309.6	302.5	295.4	285.9
70°	329.7	301.3	295.4	294.2	288.3	284.8	283.6	280.0	272.9	265.9	254.0
72.5°	282.4	265.9	261.1	261.1	254.0	249.3	247.0	245.8	241.0	235.1	224.5
75°	228.0	216.2	215.0	221.0	221.0	217.4	215.0	217.4	210.3	206.8	196.1
77.5°	186.7	180.8	177.2	179.6	186.7	183.1	178.4	178.4	178.4	172.5	169.0
80°	158.3	153.6	150.1	152.4	151.2	150.1	147.7	143.0	143.0	143.0	141.8
82.5°	143.0	141.8	128.8	128.8	124.1	120.5	118.2	115.8	113.4	113.4	119.3
85°	107.5	111.1	104.0	102.8	96.9	92.2	87.4	85.1	82.7	86.3	98.1
87.5°	52.0	52.0	49.6	55.5	50.8	48.4	44.9	42.5	44.9	55.5	66.2
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: P159128

CATALOG NUMBER: VST-E07-LED-E-U-SLR-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4
2.5°	1922.4	1921.3	1920.1	1917.7	1913.0	1911.8	1909.4	1909.4	1908.3	1905.9	1908.3
5°	1918.9	1921.3	1921.3	1920.1	1916.5	1918.9	1918.9	1922.4	1922.4	1924.8	1930.7
7.5°	1914.2	1920.1	1924.8	1928.4	1933.1	1936.6	1943.7	1954.3	1959.1	1967.3	1970.9
10°	1904.7	1915.4	1923.6	1934.3	1946.1	1959.1	1969.7	1986.2	1992.2	2004.0	2009.9
12.5°	1877.5	1895.3	1909.4	1930.7	1950.8	1970.9	1989.8	2011.1	2021.7	2034.7	2043.0
15°	1811.4	1831.5	1851.5	1870.5	1905.9	1944.9	1975.6	2004.0	2019.3	2035.9	2044.1
17.5°	1732.2	1745.2	1761.7	1786.6	1820.8	1855.1	1904.7	1944.9	1968.5	1987.4	1989.8
20°	1640.0	1658.9	1670.8	1680.2	1707.4	1731.0	1784.2	1830.3	1861.0	1883.5	1889.4
22.5°	1499.4	1519.5	1539.6	1546.7	1568.0	1598.7	1628.2	1677.9	1721.6	1754.7	1774.7
25°	1338.7	1357.6	1384.8	1406.1	1410.8	1435.6	1465.2	1521.9	1566.8	1620.0	1643.6
27.5°	1178.0	1194.6	1224.1	1235.9	1250.1	1274.9	1298.6	1345.8	1393.1	1454.5	1480.5
30°	990.2	1025.6	1059.9	1082.3	1094.1	1123.7	1140.2	1186.3	1230.0	1274.9	1312.7
32.5°	829.5	861.4	900.4	928.7	942.9	965.4	991.4	1030.3	1064.6	1108.3	1152.0
35°	681.8	725.5	751.5	776.3	812.9	823.6	849.6	885.0	905.1	952.4	1002.0
37.5°	577.8	603.8	629.8	654.6	685.3	699.5	724.3	753.9	777.5	805.8	850.7
40°	514.0	528.2	547.1	563.6	586.1	603.8	616.8	641.6	659.3	687.7	719.6
42.5°	484.5	488.0	490.4	502.2	514.0	525.8	540.0	550.6	571.9	593.2	613.2
45°	467.9	460.8	457.3	458.5	463.2	470.3	482.1	493.9	508.1	521.1	532.9
47.5°	453.7	444.3	433.6	427.7	428.9	431.3	440.7	450.2	457.3	467.9	472.6
50°	420.6	412.4	402.9	394.7	395.8	397.0	405.3	412.4	417.1	420.6	426.6
52.5°	399.4	387.6	379.3	371.0	369.8	373.4	380.5	387.6	389.9	392.3	393.5
55°	384.0	372.2	361.6	353.3	349.7	358.0	360.4	369.8	373.4	373.4	374.6
57.5°	372.2	358.0	347.4	339.1	333.2	339.1	345.0	355.7	356.8	354.5	354.5
60°	354.5	343.8	333.2	324.9	319.0	323.8	328.5	340.3	340.3	334.4	333.2
62.5°	323.8	317.8	310.8	307.2	306.0	310.8	314.3	323.8	320.2	313.1	310.8
65°	301.3	296.6	289.5	287.1	285.9	293.0	294.2	300.1	295.4	291.9	290.7
67.5°	274.1	270.6	267.0	265.9	262.3	262.3	264.7	268.2	265.9	265.9	267.0
70°	243.4	238.7	235.1	236.3	234.0	234.0	235.1	237.5	236.3	238.7	241.0
72.5°	215.0	209.1	208.0	208.0	205.6	206.8	206.8	208.0	210.3	211.5	217.4
75°	187.9	182.0	182.0	180.8	180.8	180.8	182.0	184.3	186.7	187.9	190.2
77.5°	163.1	159.5	160.7	159.5	159.5	159.5	159.5	163.1	164.2	165.4	169.0
80°	140.6	140.6	141.8	141.8	140.6	139.4	140.6	143.0	144.2	145.3	146.5
82.5°	127.6	128.8	128.8	128.8	122.9	120.5	124.1	126.4	128.8	130.0	132.3
85°	109.9	105.2	109.9	108.7	100.4	99.3	99.3	100.4	102.8	100.4	100.4
87.5°	70.9	63.8	67.4	67.4	59.1	48.4	61.4	66.2	59.1	62.6	62.6
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: P159128

CATALOG NUMBER: VST-E07-LED-E-U-SLR-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4
2.5°	1911.8	1909.4	1910.6	1910.6	1913.0	1909.4	1914.2	1918.9	1920.1	1920.1	1921.3
5°	1936.6	1934.3	1942.5	1939.0	1947.3	1946.1	1952.0	1956.7	1959.1	1959.1	1959.1
7.5°	1975.6	1983.9	1988.6	2001.6	2002.8	2009.9	2015.8	2021.7	2019.3	2020.5	2019.3
10°	2019.3	2030.0	2041.8	2054.8	2056.0	2064.2	2073.7	2079.6	2077.2	2076.0	2072.5
12.5°	2057.1	2064.2	2078.4	2091.4	2098.5	2111.5	2120.9	2125.7	2125.7	2122.1	2118.6
15°	2054.8	2065.4	2080.8	2099.7	2112.7	2131.6	2148.1	2158.8	2159.9	2156.4	2155.2
17.5°	2002.8	2018.2	2032.3	2058.3	2082.0	2108.0	2135.1	2150.5	2164.7	2172.9	2177.7
20°	1909.4	1928.4	1948.4	1982.7	2014.6	2048.9	2080.8	2103.2	2124.5	2149.3	2178.8
22.5°	1799.6	1827.9	1856.3	1900.0	1939.0	1978.0	2014.6	2041.8	2074.9	2117.4	2172.9
25°	1670.8	1700.3	1735.8	1786.6	1836.2	1892.9	1947.3	2001.6	2065.4	2138.7	2224.9
27.5°	1518.3	1551.4	1597.5	1658.9	1715.7	1773.6	1858.6	1944.9	2048.9	2143.4	2241.5
30°	1367.1	1409.6	1459.3	1520.7	1577.4	1660.1	1745.2	1851.5	1961.4	2067.8	2184.8
32.5°	1204.0	1257.2	1318.7	1369.5	1433.3	1517.2	1602.2	1715.7	1832.6	1957.9	2086.7
35°	1046.9	1097.7	1146.1	1202.9	1266.7	1345.8	1428.5	1537.2	1684.9	1818.5	1972.1
37.5°	887.4	934.6	968.9	1013.8	1069.3	1156.8	1245.4	1370.6	1510.1	1674.3	1827.9
40°	747.9	786.9	825.9	861.4	908.6	991.4	1085.9	1208.8	1345.8	1505.3	1676.7
42.5°	636.9	666.4	709.0	751.5	791.7	862.6	951.2	1071.7	1207.6	1370.6	1542.0
45°	543.5	563.6	597.9	633.3	683.0	742.0	827.1	950.0	1088.2	1252.5	1433.3
47.5°	476.2	485.6	509.3	545.9	592.0	649.9	723.1	834.2	968.9	1134.3	1324.6
50°	430.1	440.7	452.5	483.3	524.6	583.7	644.0	740.9	863.7	1025.6	1214.7
52.5°	398.2	402.9	407.6	426.6	464.4	514.0	577.8	651.1	775.1	929.9	1100.1
55°	379.3	380.5	384.0	393.5	421.8	467.9	523.4	593.2	690.0	836.6	1010.3
57.5°	356.8	359.2	362.7	368.7	386.4	427.7	475.0	531.7	612.1	734.9	901.6
60°	335.6	341.5	347.4	350.9	360.4	385.2	425.4	470.3	535.3	627.4	759.8
62.5°	313.1	320.2	324.9	328.5	332.0	347.4	376.9	406.5	446.6	506.9	606.2
65°	293.0	297.8	301.3	303.7	306.0	310.8	323.8	335.6	347.4	384.0	456.1
67.5°	270.6	272.9	274.1	275.3	274.1	274.1	275.3	280.0	284.8	298.9	333.2
70°	244.6	248.1	248.1	249.3	249.3	245.8	245.8	245.8	245.8	249.3	268.2
72.5°	219.8	224.5	224.5	225.7	224.5	223.3	223.3	223.3	226.9	229.2	236.3
75°	196.1	200.9	199.7	200.9	202.1	202.1	204.4	205.6	209.1	210.3	215.0
77.5°	172.5	176.1	177.2	176.1	178.4	180.8	185.5	187.9	189.1	190.2	191.4
80°	150.1	152.4	151.2	147.7	153.6	157.2	164.2	172.5	170.1	171.3	173.7
82.5°	124.1	120.5	118.2	120.5	124.1	128.8	135.9	146.5	147.7	153.6	152.4
85°	95.7	85.1	83.9	89.8	88.6	94.5	106.3	114.6	121.7	127.6	121.7
87.5°	56.7	50.8	42.5	40.2	43.7	57.9	60.3	73.3	79.2	81.5	73.3
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: P159128

CATALOG NUMBER: VST-E07-LED-E-U-SLR-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4
2.5°	2028.8	2034.7	2034.7	2037.1	2040.6	2041.8	2046.5	2054.8	2056.0	2056.0	2059.5
5°	2066.6	2072.5	2072.5	2077.2	2078.4	2084.3	2090.2	2099.7	2104.4	2103.2	2118.6
7.5°	2128.0	2123.3	2119.8	2126.9	2130.4	2137.5	2149.3	2157.6	2165.8	2178.8	2200.1
10°	2180.0	2172.9	2169.4	2174.1	2176.5	2184.8	2191.8	2203.7	2223.7	2243.8	2269.8
12.5°	2222.6	2214.3	2204.8	2207.2	2210.7	2221.4	2233.2	2248.6	2278.1	2304.1	2343.1
15°	2258.0	2246.2	2236.7	2241.5	2249.7	2263.9	2284.0	2311.2	2359.6	2404.5	2456.5
17.5°	2292.3	2289.9	2286.4	2301.7	2307.6	2340.7	2370.3	2419.9	2486.1	2553.4	2627.9
20°	2325.4	2351.4	2364.4	2395.1	2414.0	2458.9	2503.8	2564.0	2647.9	2740.1	2841.7
22.5°	2371.4	2442.3	2486.1	2548.7	2580.6	2629.0	2695.2	2774.4	2867.7	2985.9	3115.8
25°	2481.3	2585.3	2672.8	2770.8	2851.2	2925.6	3004.8	3100.5	3235.2	3342.7	3512.9
27.5°	2529.8	2676.3	2807.5	2945.7	3066.2	3180.8	3306.1	3421.9	3581.4	3726.7	3932.3
30°	2483.7	2649.1	2819.3	3000.1	3176.1	3349.8	3531.8	3709.0	3893.3	4096.6	4315.2
32.5°	2398.6	2584.1	2775.5	2988.2	3206.8	3432.5	3668.8	3926.4	4186.4	4439.2	4662.5
35°	2312.4	2512.1	2724.7	2968.1	3225.7	3505.8	3798.8	4124.9	4468.8	4789.0	5080.8
37.5°	2187.1	2406.9	2650.3	2931.5	3237.5	3582.6	3959.5	4361.2	4796.1	5236.8	5619.6
40°	2035.9	2268.6	2534.5	2858.3	3225.7	3661.7	4152.1	4667.3	5226.2	5763.8	6234.1
42.5°	1897.6	2124.5	2408.1	2760.2	3195.0	3731.5	4335.2	4976.8	5638.5	6240.0	6854.4
45°	1775.9	2026.4	2311.2	2691.7	3179.7	3790.5	4471.1	5208.4	5965.8	6681.9	7407.4
47.5°	1664.9	1924.8	2243.8	2653.8	3172.6	3826.0	4565.7	5359.7	6198.6	7021.0	7863.5
50°	1550.2	1803.1	2144.6	2612.5	3154.8	3824.8	4615.3	5462.5	6361.7	7284.5	8177.8
52.5°	1427.4	1681.4	2024.1	2536.9	3117.0	3803.5	4628.3	5532.2	6490.5	7446.4	8444.8
55°	1315.1	1552.6	1895.3	2410.4	3037.9	3751.5	4598.7	5561.7	6581.4	7607.1	8632.7
57.5°	1186.3	1433.3	1759.4	2236.7	2889.0	3659.4	4514.8	5520.4	6607.4	7714.6	8781.6
60°	1009.1	1251.3	1586.9	2031.1	2656.2	3464.4	4358.9	5395.1	6524.7	7733.5	8887.9
62.5°	805.8	1015.0	1338.7	1747.6	2328.9	3158.4	4070.6	5113.9	6267.1	7556.3	8833.5
65°	599.1	738.5	1017.3	1376.5	1949.6	2697.6	3606.2	4642.5	5763.8	7063.5	8492.1
67.5°	417.1	517.5	688.9	955.9	1417.9	2083.1	2943.3	3906.3	4985.1	6151.3	7783.1
70°	315.5	361.6	454.9	603.8	918.1	1419.1	2139.9	2997.7	3998.5	5122.2	6659.4
72.5°	269.4	293.0	345.0	413.6	562.4	862.6	1343.5	2063.1	2950.4	3865.0	5109.2
75°	242.2	262.3	295.4	339.1	398.2	523.4	788.1	1305.7	1954.3	2588.9	3564.8
77.5°	219.8	237.5	267.0	289.5	321.4	376.9	502.2	781.0	1171.0	1599.9	2211.9
80°	196.1	206.8	234.0	256.4	281.2	313.1	360.4	490.4	672.3	947.6	1304.5
82.5°	167.8	176.1	196.1	226.9	245.8	258.8	272.9	324.9	402.9	514.0	724.3
85°	130.0	135.9	153.6	176.1	184.3	185.5	187.9	202.1	250.5	385.2	623.9
87.5°	66.2	73.3	92.2	99.3	83.9	91.0	92.2	98.1	130.0	211.5	215.0
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: P159128
 CATALOG NUMBER: VST-E07-LED-E-U-SLR-8030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	0°
2.5°	2059.5	2063.1	2071.3	2070.1	2076.0	2076.0	2076.0	2082.0	2078.4	2082.0	2087.9	2.5°
5°	2118.6	2124.5	2136.3	2136.3	2137.5	2133.9	2141.0	2145.8	2139.9	2137.5	2138.7	5°
7.5°	2204.8	2214.3	2223.7	2233.2	2240.3	2236.7	2237.9	2227.3	2224.9	2216.7	2206.0	7.5°
10°	2288.7	2314.7	2332.5	2349.0	2350.2	2346.6	2347.8	2330.1	2326.5	2310.0	2299.4	10°
12.5°	2375.0	2408.1	2436.4	2454.2	2464.8	2467.2	2468.3	2468.3	2451.8	2437.6	2412.8	12.5°
15°	2502.6	2560.5	2604.2	2623.1	2638.5	2652.7	2656.2	2660.9	2647.9	2629.0	2625.5	15°
17.5°	2704.7	2759.0	2816.9	2867.7	2902.0	2904.3	2933.9	2931.5	2958.7	2937.4	2931.5	17.5°
20°	2944.5	3062.7	3122.9	3190.3	3229.3	3248.2	3316.7	3295.4	3315.5	3349.8	3315.5	20°
22.5°	3244.6	3394.7	3482.1	3574.3	3638.1	3684.2	3733.8	3772.8	3827.2	3853.2	3829.5	22.5°
25°	3642.8	3814.2	3918.1	4045.8	4147.4	4230.1	4316.3	4420.3	4419.1	4481.8	4525.5	25°
27.5°	4100.1	4318.7	4469.9	4694.4	4781.9	4921.3	5069.0	5229.7	5258.1	5339.6	5380.9	27.5°
30°	4530.2	4800.8	5100.9	5368.0	5670.4	5877.2	6048.5	6162.0	6333.3	6290.8	6267.1	30°
32.5°	4927.2	5287.6	5715.3	6153.7	6633.4	6960.7	7263.2	7403.8	7510.2	7284.5	6985.5	32.5°
35°	5442.4	5873.7	6362.8	6904.0	7513.7	7978.1	8290.0	8333.7	8273.5	7984.0	7488.9	35°
37.5°	6080.4	6533.0	7089.5	7661.4	8308.9	8744.9	9100.6	9164.4	9004.9	8488.5	7968.6	37.5°
40°	6710.2	7240.8	7844.6	8521.6	9192.7	9672.5	10029.3	10048.2	9788.3	9184.5	8576.0	40°
42.5°	7399.1	7979.3	8651.6	9401.9	10095.5	10581.1	10838.7	10920.2	10552.8	9778.8	9195.1	42.5°
45°	7993.4	8687.0	9436.2	10233.7	10959.2	11420.0	11682.4	11656.4	11212.1	10447.6	9763.5	45°
47.5°	8572.4	9335.7	10125.0	10972.2	11693.0	12158.5	12427.9	12404.3	11840.7	10960.4	10207.7	47.5°
50°	9087.6	9915.9	10759.5	11664.6	12383.0	12809.6	13139.3	13035.3	12322.8	11372.8	10493.7	50°
52.5°	9445.6	10369.6	11251.1	12229.4	12969.1	13373.2	13792.7	13458.3	12607.5	11625.6	10647.3	52.5°
55°	9672.5	10681.5	11600.8	12683.2	13409.8	13893.1	14163.7	13688.7	12717.4	11695.4	10700.5	55°
57.5°	9826.1	10852.9	11806.4	12945.5	13806.8	14212.1	14278.3	13697.0	12646.5	11585.5	10647.3	57.5°
60°	9901.7	10903.7	11899.8	13129.8	14085.7	14307.8	14187.3	13505.5	12401.9	11262.9	10304.6	60°
62.5°	9893.4	10839.9	11851.3	13191.2	14141.2	14169.6	13895.5	13179.4	11951.8	10585.8	9735.1	62.5°
65°	9683.1	10607.1	11578.4	12963.2	13882.5	13760.8	13415.7	12567.4	11076.2	9702.0	9271.9	65°
67.5°	9077.0	9963.1	10864.7	12216.4	13153.4	13035.3	12513.0	11364.5	10058.9	8919.8	8688.2	67.5°
70°	8063.2	8814.6	9606.3	10793.8	11776.9	11617.4	10704.0	10005.7	9051.0	8015.9	7935.5	70°
72.5°	6741.0	7310.5	7884.7	8768.6	9445.6	9119.5	8545.2	8508.6	7737.0	6946.6	6963.1	72.5°
75°	5272.2	5700.0	5968.2	6488.1	6938.3	6646.4	6680.7	6883.9	6629.9	6007.2	5805.1	75°
77.5°	3820.1	4230.1	4315.2	4623.6	4940.2	5272.2	5711.8	6190.3	6270.7	5920.9	5188.3	77.5°
80°	2500.2	2951.6	2783.8	2893.7	3339.2	3945.3	4747.6	5535.7	5806.3	5492.0	4590.5	80°
82.5°	1474.6	2106.8	1839.7	2027.6	2310.0	2838.2	3392.3	3986.7	4439.2	4104.8	3834.3	82.5°
85°	1120.1	1661.3	1759.4	1987.4	2079.6	2102.0	2198.9	2392.7	2626.7	2714.1	2707.0	85°
87.5°	583.7	1291.5	1449.8	1341.1	1251.3	1084.7	846.0	911.0	833.0	1139.1	1078.8	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°



IUMBER: P159128

NUMBER: VST-E07-LED-E-U-SLR-8030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4
2089.0	2085.5	2087.9	2089.0	2089.0	2089.0	2091.4
2137.5	2128.0	2124.5	2124.5	2123.3	2119.8	2118.6
2189.5	2172.9	2167.0	2159.9	2154.0	2150.5	2144.6
2282.8	2268.6	2239.1	2222.6	2207.2	2196.6	2187.1
2408.1	2388.0	2359.6	2338.4	2314.7	2307.6	2295.8
2601.9	2584.1	2559.3	2535.7	2521.5	2496.7	2479.0
2904.3	2868.9	2844.1	2813.4	2779.1	2728.3	2703.5
3302.5	3231.6	3182.0	3154.8	3086.3	3078.0	3017.8
3759.8	3738.5	3662.9	3629.8	3563.7	3537.7	3443.1
4443.9	4427.4	4272.6	4256.1	4154.5	4078.8	3932.3
5343.1	5207.3	5032.4	4910.7	4737.0	4542.0	4292.7
6128.9	5851.2	5584.2	5300.6	5060.7	4780.7	4498.3
6629.9	6257.7	5913.8	5623.2	5326.6	4993.4	4630.6
7069.4	6693.7	6319.1	5975.3	5616.1	5189.5	4741.7
7595.2	7221.9	6800.0	6316.8	5855.9	5333.7	4786.6
8134.0	7696.9	7169.9	6577.9	5998.9	5404.6	4778.3
8685.8	8127.0	7426.3	6751.6	6089.9	5415.2	4722.8
9133.7	8427.1	7616.5	6840.2	6108.8	5378.6	4653.1
9450.3	8619.7	7701.6	6870.9	6085.2	5320.7	4558.6
9631.1	8724.8	7722.9	6848.5	6036.7	5238.0	4455.8
9697.3	8756.7	7701.6	6802.4	5993.0	5149.4	4383.7
9690.2	8739.0	7623.6	6694.9	5876.0	5031.2	4295.1
9556.7	8574.8	7464.1	6566.1	5776.8	4976.8	4301.0
9329.8	8470.8	7416.8	6592.1	5828.8	5093.8	4487.7
9227.0	8678.8	7682.7	6852.0	6095.8	5428.2	4872.9
9169.1	9016.7	8063.2	7132.1	6412.5	5833.5	5332.5
8932.8	9113.6	8279.4	7291.6	6694.9	6240.0	5792.1
8551.1	8887.9	8115.1	7260.9	6850.8	6551.9	5957.6
7754.8	8110.4	7383.7	6808.3	6655.9	6556.6	5709.4
6282.5	6466.8	6053.3	5923.3	5980.0	5981.2	4789.0
4633.0	4521.9	4335.2	4344.7	4726.3	4667.3	3413.6
3782.3	3095.8	2831.1	2931.5	3403.0	3148.9	2144.6
3519.9	2761.4	2279.3	2302.9	2570.0	2028.8	1291.5
2846.4	2516.8	2018.2	1811.4	1758.2	1351.7	876.7
1191.0	1095.3	815.3	734.9	602.6	368.7	167.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)