

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: P158881

Luminaire Tested: **VST-E04-LED-E-U-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158881
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-E04-LED-E-U-SLL-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11029.7 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 97.2
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

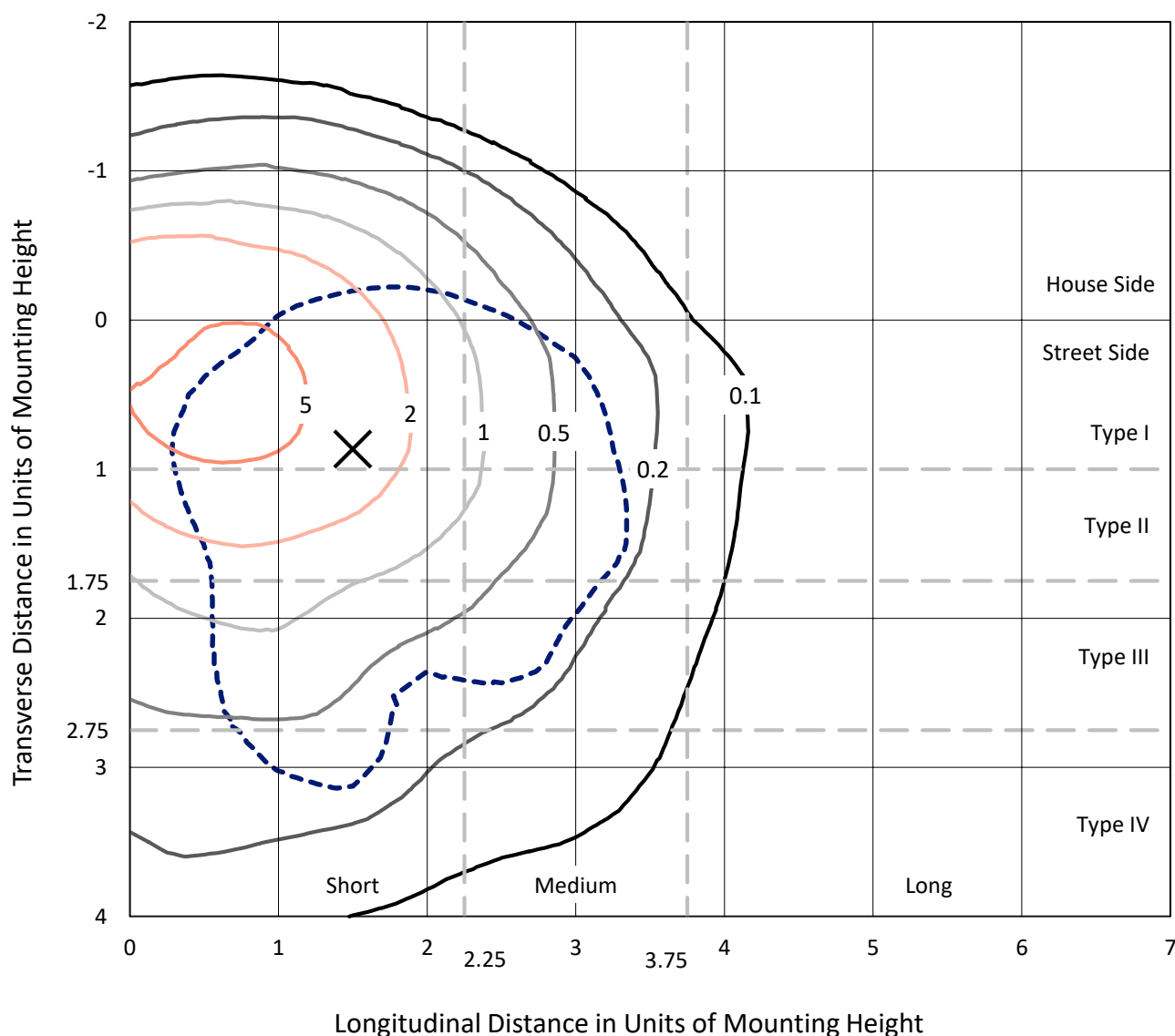


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

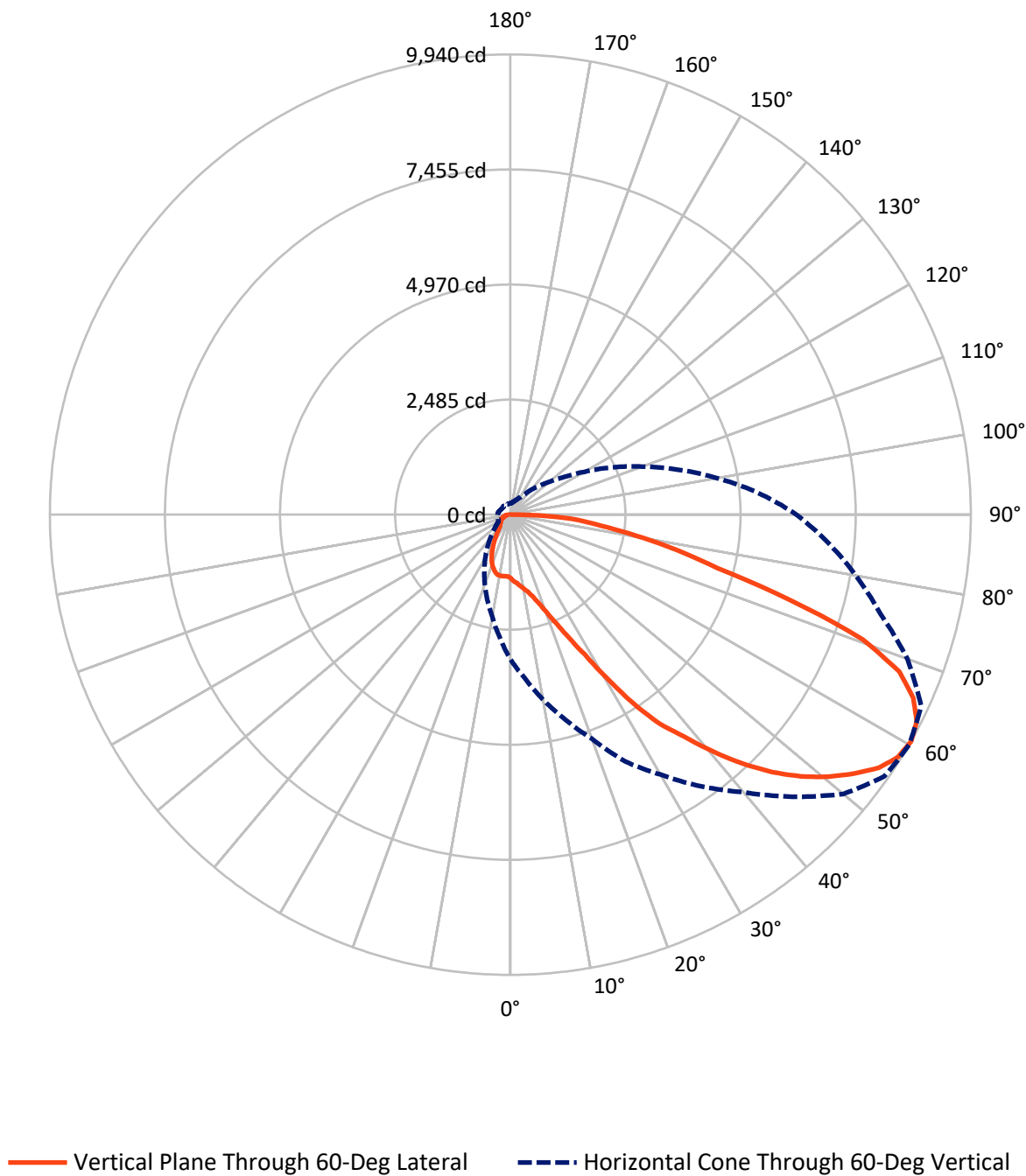


Based on 20 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2483.6	0.0	2483.6
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	8546.2	0.0	8546.2
	% Fixture	77.5	0.0	77.5
Total	Lumens	11029.7	0.0	11029.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	1.2
10°-20°	436.9	4.0
20°-30°	829.1	7.5
30°-40°	1305.7	11.8
40°-50°	1822.5	16.5
50°-60°	2254.0	20.4
60°-70°	2336.4	21.2
70°-80°	1470.2	13.3
80°-90°	439.5	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°	11029.7	100.0
0°-180°	11029.7	100.0

Coefficient of Utilization



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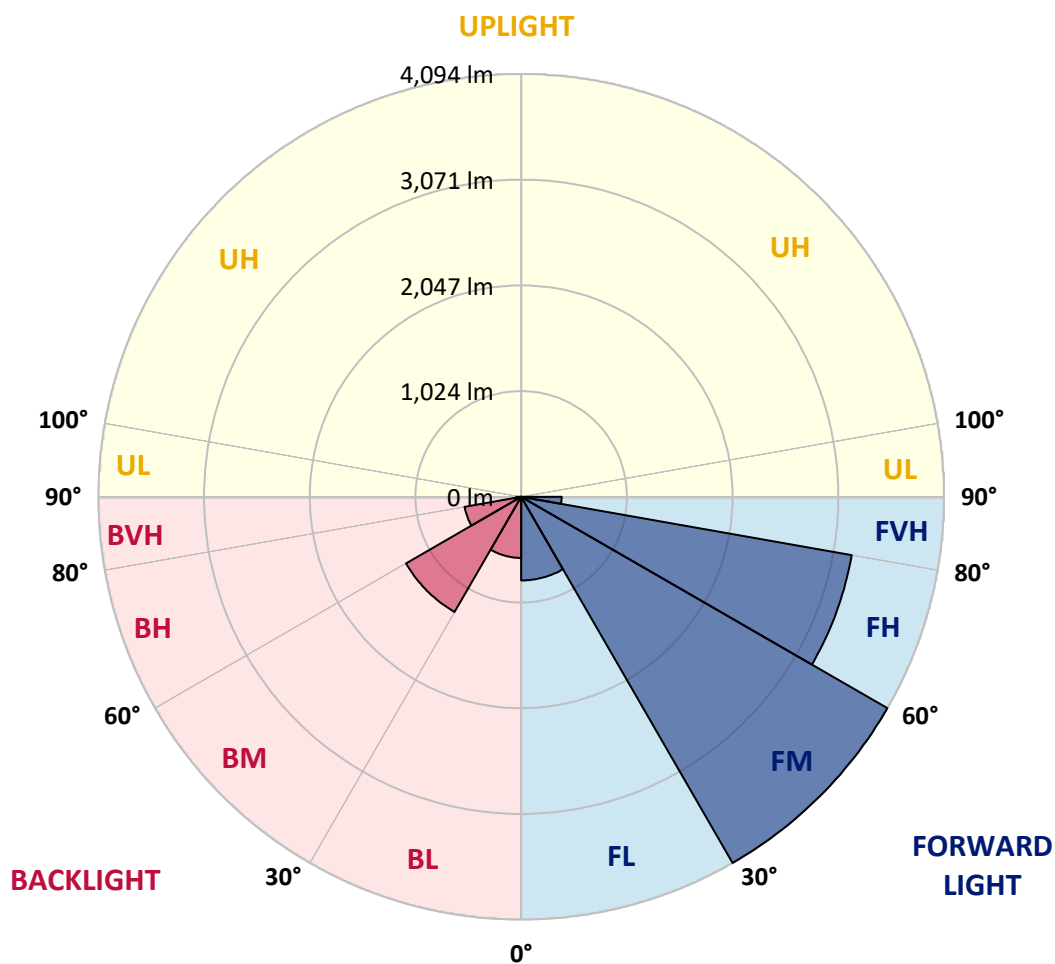
CATALOG NUMBER: VST-E04-LED-E-U-SLL-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	809.7	7.3			
FM	(30°-60°)	4094.4	37.1			
FH	(60°-80°)	3250.4	29.5			G2/5000
FVH	(80°-90°)	391.7	3.6			G3/500
BL	(0°-30°)	591.7	5.4	B2/1000		
BM	(30°-60°)	1287.9	11.7	B2/2500		
BH	(60°-80°)	556.2	5.0	B2/1000		G2/1000
BVH	(80°-90°)	47.8	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°	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7
2.5°	1453.0	1451.3	1451.3	1451.3	1450.5	1448.9	1451.3	1450.5	1446.4	1443.9	1446.4
5°	1471.8	1472.7	1475.1	1476.0	1476.0	1478.4	1485.0	1485.8	1485.0	1486.6	1490.7
7.5°	1489.9	1494.0	1496.5	1500.6	1505.5	1509.6	1521.1	1532.6	1540.0	1545.7	1547.4
10°	1519.5	1526.0	1533.4	1544.1	1555.6	1576.1	1585.9	1597.4	1604.8	1616.3	1618.8
12.5°	1595.0	1603.2	1608.1	1624.5	1639.3	1659.0	1673.0	1676.2	1693.5	1703.3	1714.8
15°	1722.2	1734.5	1751.8	1761.6	1778.0	1795.3	1807.6	1824.0	1826.5	1839.6	1848.6
17.5°	1878.2	1895.4	1930.7	1954.5	1975.9	1993.1	2017.7	2036.6	2040.7	2055.5	2036.6
20°	2096.5	2138.4	2144.1	2191.8	2210.6	2245.1	2294.4	2303.4	2327.2	2303.4	2289.4
22.5°	2392.1	2457.7	2475.8	2521.8	2544.7	2597.3	2612.1	2660.5	2676.9	2658.8	2621.1
25°	2731.9	2833.7	2886.2	2956.8	2968.3	3075.9	3087.3	3144.0	3113.6	3070.1	3070.9
27.5°	2982.3	3155.5	3290.9	3411.6	3496.1	3617.6	3712.0	3738.3	3709.6	3652.9	3633.2
30°	3125.1	3321.3	3515.8	3682.5	3879.5	4065.0	4257.9	4354.0	4370.4	4399.9	4280.9
32.5°	3217.0	3469.1	3700.5	3906.6	4108.5	4347.4	4606.0	4853.1	5060.8	5217.5	5143.7
35°	3294.2	3605.3	3901.7	4151.2	4390.1	4650.3	4911.4	5202.8	5546.7	5747.8	5789.7
37.5°	3325.4	3705.5	4068.3	4388.4	4724.2	5017.2	5276.6	5536.0	5897.2	6256.0	6366.8
40°	3319.7	3754.7	4167.6	4569.9	4981.1	5347.2	5651.0	5958.0	6380.7	6800.2	6980.8
42.5°	3281.1	3762.1	4230.8	4690.5	5159.3	5646.0	6034.3	6388.1	6793.6	7331.3	7586.6
45°	3232.6	3736.7	4244.0	4752.1	5291.4	5854.5	6345.4	6783.0	7258.3	7789.4	8098.0
47.5°	3167.0	3696.4	4227.6	4773.4	5350.5	5988.4	6565.4	7091.6	7614.5	8226.1	8617.6
50°	3095.6	3639.0	4193.9	4757.8	5365.3	6061.4	6691.0	7290.3	7901.0	8561.0	9056.0
52.5°	3045.5	3577.4	4163.5	4725.8	5350.5	6083.6	6737.0	7397.0	8076.7	8758.8	9349.9
55°	2983.9	3495.3	4082.3	4651.1	5296.3	6071.3	6732.1	7433.9	8125.1	8835.2	9509.9
57.5°	2988.0	3457.6	4013.3	4561.7	5185.5	5957.2	6639.3	7397.0	8048.8	8785.9	9515.7
60°	3117.7	3538.8	4049.4	4579.7	5152.7	5884.9	6481.7	7158.9	7824.7	8616.0	9382.7
62.5°	3385.3	3771.1	4234.9	4760.3	5337.4	6029.4	6410.3	6763.3	7354.3	8303.2	9156.1
65°	3704.7	4052.7	4454.9	4954.9	5601.7	6264.2	6370.1	6441.5	6740.3	7695.0	8730.9
67.5°	4024.0	4335.1	4651.1	5065.7	5751.9	6331.5	6205.9	6036.0	6196.9	6988.2	7895.3
70°	4138.9	4551.8	4759.5	5044.3	5637.8	6174.7	5940.7	5513.1	5568.9	6288.0	6951.2
72.5°	3966.5	4555.1	4624.0	4729.9	5129.7	5634.6	5387.5	4837.5	4826.0	5375.2	5911.2
75°	3327.0	4155.3	4154.5	4115.1	4205.4	4492.7	4364.6	4033.0	4173.4	4606.0	4782.5
77.5°	2371.5	3242.5	3283.5	3018.4	3011.8	3141.5	3218.7	3604.5	4113.5	4356.4	4300.6
80°	1489.9	2187.7	2364.1	2036.6	1966.8	2150.7	2627.7	3189.1	3815.5	4033.8	3845.8
82.5°	897.2	1409.5	1785.4	1599.9	1583.5	1918.4	2445.4	2663.8	2851.8	3084.1	2769.7
85°	609.1	939.1	1221.5	1258.4	1402.1	1748.5	1977.5	1880.6	1885.6	1824.8	1662.3
87.5°	116.6	256.1	418.7	510.6	566.4	761.0	827.5	749.5	791.3	578.7	632.9
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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CATALOG NUMBER: VST-E04-LED-E-U-SLL-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7
2.5°	1442.3	1442.3	1442.3	1438.2	1439.0	1433.3	1430.8	1430.8	1428.3	1428.3	1427.5
5°	1487.4	1482.5	1485.0	1484.2	1484.2	1476.0	1471.8	1471.8	1461.2	1462.0	1458.7
7.5°	1554.8	1553.9	1556.4	1551.5	1544.9	1538.3	1531.8	1528.5	1513.7	1504.7	1498.9
10°	1631.1	1630.3	1632.7	1631.9	1620.4	1608.1	1590.1	1576.9	1558.9	1544.9	1530.9
12.5°	1714.8	1714.0	1712.4	1705.0	1692.7	1673.0	1650.0	1627.8	1600.7	1582.7	1562.1
15°	1845.3	1842.9	1833.0	1822.4	1809.2	1778.9	1738.6	1706.6	1670.5	1639.3	1605.6
17.5°	2038.3	2017.7	2016.1	1992.3	1957.0	1916.8	1879.0	1825.6	1773.9	1727.1	1681.2
20°	2304.2	2256.6	2243.5	2216.4	2169.6	2127.7	2045.6	1974.2	1903.6	1839.6	1781.3
22.5°	2594.0	2559.5	2527.5	2483.2	2419.1	2358.4	2254.1	2164.7	2074.4	1992.3	1927.4
25°	2998.7	2938.8	2881.3	2810.7	2722.1	2649.8	2530.8	2440.5	2322.3	2247.6	2154.0
27.5°	3521.6	3419.0	3322.1	3261.4	3105.4	3000.3	2848.5	2731.9	2589.1	2488.1	2377.3
30°	4202.1	4083.1	3939.4	3729.3	3543.8	3335.3	3147.3	2997.9	2846.0	2704.8	2576.8
32.5°	5046.0	4835.8	4608.4	4275.2	3970.6	3673.5	3423.1	3239.2	3084.1	2908.4	2727.8
35°	5759.3	5542.6	5220.0	4796.4	4420.5	4080.6	3781.0	3529.8	3327.0	3104.6	2865.7
37.5°	6322.5	6075.4	5772.5	5322.6	4925.3	4538.7	4224.3	3904.1	3638.2	3332.0	3029.9
40°	6967.7	6719.8	6386.5	5920.2	5449.9	5030.4	4661.8	4331.0	4004.3	3630.8	3242.5
42.5°	7530.0	7351.0	7013.6	6531.8	6010.5	5543.4	5140.4	4762.0	4335.1	3917.3	3457.6
45°	8116.1	7933.8	7613.7	7109.7	6555.6	6035.1	5553.3	5146.1	4642.1	4144.6	3618.5
47.5°	8634.1	8446.9	8123.5	7622.7	7034.2	6485.8	5955.5	5463.0	4877.7	4306.4	3723.5
50°	9128.2	8899.2	8602.9	8103.8	7475.0	6888.9	6313.4	5681.3	5060.8	4419.6	3794.9
52.5°	9582.2	9290.8	9010.0	8496.2	7816.5	7204.1	6562.1	5866.9	5173.2	4509.1	3843.4
55°	9839.9	9652.0	9316.2	8811.4	8059.4	7420.8	6719.8	5997.4	5284.9	4572.3	3863.9
57.5°	9919.6	9873.6	9592.0	8993.6	8202.3	7539.8	6826.5	6100.8	5359.6	4590.4	3835.2
60°	9856.4	9940.1	9785.8	9121.7	8267.1	7575.1	6879.0	6174.7	5372.7	4532.9	3748.2
62.5°	9653.6	9844.0	9824.3	9164.4	8233.5	7530.8	6873.3	6136.9	5249.6	4354.0	3552.8
65°	9320.3	9560.0	9644.6	9005.9	8043.8	7369.1	6727.1	5899.7	4907.2	4004.3	3225.3
67.5°	8693.2	9056.0	9138.1	8487.1	7548.0	6921.7	6306.0	5407.2	4273.5	3463.3	2713.8
70°	7436.4	8070.9	8181.8	7498.8	6673.8	6123.8	5601.7	4626.5	3558.5	2777.9	2082.6
72.5°	5936.6	6335.6	6562.1	6091.8	5477.8	5078.8	4683.1	3549.5	2685.1	2049.7	1433.3
75°	4641.3	4617.5	4820.2	4507.5	4146.3	3959.9	3662.8	2476.6	1798.6	1357.7	907.1
77.5°	3968.2	3662.8	3432.1	3212.1	2997.9	2938.8	2653.9	1536.7	1111.5	813.5	542.6
80°	3298.3	2740.9	2319.8	2010.3	1934.0	2050.6	1737.0	906.3	658.3	467.1	340.7
82.5°	2356.8	1971.8	1604.8	1408.6	1278.1	1463.6	1024.5	503.2	357.1	279.9	225.7
85°	1527.7	1460.4	1444.8	1380.7	1222.3	1154.2	778.2	433.4	267.6	174.0	140.4
87.5°	587.8	753.6	869.3	931.7	1007.2	897.2	405.5	149.4	146.9	90.3	68.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7
2.5°	1421.8	1418.5	1417.7	1415.2	1413.6	1413.6	1409.5	1334.8	1333.9	1333.9	1333.1
5°	1452.1	1448.0	1443.9	1443.1	1439.8	1439.8	1435.7	1361.0	1361.0	1361.0	1359.4
7.5°	1493.2	1485.0	1480.1	1477.6	1472.7	1475.1	1478.4	1402.9	1403.7	1402.9	1404.5
10°	1522.7	1517.8	1512.1	1510.4	1507.1	1509.6	1514.5	1439.8	1442.3	1443.1	1444.8
12.5°	1551.5	1543.3	1535.9	1533.4	1531.8	1538.3	1544.1	1471.8	1474.3	1476.8	1476.8
15°	1586.8	1572.8	1563.0	1557.2	1553.9	1560.5	1568.7	1497.3	1498.1	1500.6	1499.8
17.5°	1646.7	1626.2	1603.2	1599.1	1588.4	1590.9	1592.5	1512.9	1509.6	1503.9	1494.0
20°	1739.5	1708.3	1677.1	1663.9	1642.6	1633.6	1615.5	1513.7	1493.2	1476.0	1461.2
22.5°	1872.4	1826.5	1792.8	1770.6	1727.1	1696.8	1647.5	1509.6	1471.0	1441.5	1418.5
25°	2087.5	2032.5	1980.8	1925.0	1856.8	1796.1	1723.9	1545.7	1485.8	1434.9	1390.6
27.5°	2296.8	2209.8	2130.2	2046.5	1950.4	1859.3	1757.5	1557.2	1489.1	1423.4	1351.2
30°	2453.6	2327.2	2206.5	2084.2	1958.6	1840.4	1725.5	1517.8	1436.5	1362.7	1286.3
32.5°	2548.8	2384.7	2227.9	2076.0	1928.3	1795.3	1666.4	1449.7	1360.2	1273.2	1191.9
35°	2639.1	2435.6	2241.0	2062.1	1893.0	1745.2	1606.5	1370.1	1263.3	1170.6	1068.0
37.5°	2750.8	2488.9	2249.2	2036.6	1841.2	1672.1	1519.5	1269.9	1163.2	1049.1	952.2
40°	2884.6	2543.9	2241.0	1985.7	1760.8	1576.1	1414.4	1164.8	1045.8	935.0	839.8
42.5°	3011.8	2592.4	2219.7	1917.6	1673.0	1476.0	1318.3	1071.3	952.2	838.9	744.5
45°	3106.2	2633.4	2209.0	1870.0	1605.6	1407.8	1233.8	995.7	870.1	756.0	660.0
47.5°	3171.9	2658.0	2204.1	1843.7	1558.9	1337.2	1156.6	920.2	788.0	673.1	579.5
50°	3206.4	2657.2	2191.8	1815.0	1489.9	1252.7	1077.0	843.9	712.5	600.1	514.7
52.5°	3215.4	2642.4	2165.5	1762.4	1406.2	1168.1	991.6	764.2	646.0	538.5	452.3
55°	3194.9	2606.3	2110.5	1674.6	1316.7	1078.6	913.6	701.9	581.2	479.4	412.1
57.5°	3136.6	2542.3	2007.1	1553.9	1222.3	995.7	824.2	626.3	510.6	425.2	369.4
60°	3028.2	2406.8	1845.3	1411.1	1102.4	869.3	701.0	527.8	435.9	371.9	326.7
62.5°	2827.9	2194.2	1618.0	1214.1	930.1	705.1	559.8	421.1	352.2	310.3	282.4
65°	2505.3	1874.1	1354.5	956.3	706.8	513.1	416.2	316.9	266.8	241.3	233.1
67.5°	2044.8	1447.2	985.1	664.1	478.6	359.5	289.8	231.5	207.7	197.8	194.5
70°	1486.6	985.9	637.8	419.5	316.0	251.2	219.2	186.3	173.2	170.7	170.7
72.5°	933.3	599.2	390.7	287.3	239.7	203.6	187.2	164.2	159.3	157.6	155.1
75°	547.5	363.7	276.6	235.6	205.2	182.2	168.3	149.4	146.1	145.3	142.8
77.5°	348.9	261.9	223.3	201.1	185.5	165.0	152.7	133.0	132.2	131.3	130.5
80°	250.4	217.5	195.4	178.1	162.5	143.7	136.3	120.7	119.0	118.2	119.8
82.5°	189.6	179.8	170.7	157.6	136.3	122.3	116.6	105.9	106.7	102.6	101.8
85°	130.5	128.9	128.1	122.3	106.7	94.4	90.3	84.6	88.7	84.6	79.6
87.5°	64.0	63.2	58.3	69.0	64.0	50.9	46.0	50.9	56.6	55.0	50.9
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: P158881

CATALOG NUMBER: VST-E04-LED-E-U-SLL-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7
2.5°	1329.8	1326.5	1329.0	1327.4	1327.4	1326.5	1328.2	1325.7	1324.1	1325.7	1326.5
5°	1356.1	1352.0	1352.8	1347.1	1349.5	1343.8	1345.4	1341.3	1337.2	1335.6	1335.6
7.5°	1400.4	1396.3	1391.4	1390.6	1381.5	1378.3	1372.5	1369.2	1366.8	1361.0	1357.7
10°	1440.7	1434.1	1428.3	1427.5	1418.5	1410.3	1402.9	1396.3	1392.2	1384.0	1379.9
12.5°	1473.5	1466.9	1457.9	1453.0	1443.9	1434.1	1429.2	1419.3	1413.6	1404.5	1397.1
15°	1492.4	1480.9	1467.7	1458.7	1445.6	1434.9	1427.5	1420.1	1414.4	1402.9	1392.2
17.5°	1483.3	1464.5	1446.4	1430.0	1411.9	1402.1	1391.4	1382.4	1380.7	1367.6	1351.2
20°	1445.6	1423.4	1399.6	1377.4	1353.6	1339.7	1326.5	1312.6	1308.5	1292.9	1271.5
22.5°	1399.6	1374.2	1347.1	1320.0	1289.6	1269.9	1250.2	1233.0	1219.0	1196.0	1165.7
25°	1352.8	1315.1	1275.7	1241.2	1205.9	1181.3	1160.7	1141.9	1125.4	1088.5	1057.3
27.5°	1291.3	1232.1	1191.9	1152.5	1109.8	1077.8	1054.8	1028.6	1010.5	967.8	935.0
30°	1212.4	1153.3	1095.9	1056.5	1013.8	979.3	949.8	912.0	885.7	854.5	824.2
32.5°	1113.1	1054.0	995.7	951.4	916.1	873.4	836.5	800.4	770.0	739.6	715.8
35°	992.4	935.0	880.0	835.7	796.3	762.6	727.3	696.1	661.6	628.8	614.8
37.5°	865.2	803.6	742.9	704.3	673.1	649.3	616.5	591.0	559.8	540.1	523.7
40°	754.4	688.7	631.3	598.4	573.8	546.7	519.6	499.9	477.8	458.1	445.7
42.5°	660.8	599.2	550.0	522.1	492.5	463.0	442.5	426.0	412.1	397.3	382.5
45°	574.6	515.5	474.5	440.0	415.4	391.6	377.6	370.2	362.0	353.0	343.1
47.5°	502.4	451.5	411.3	379.2	353.8	337.4	330.8	328.4	325.1	317.7	312.8
50°	447.4	405.5	364.5	335.7	314.4	306.2	298.8	296.3	292.2	289.8	286.5
52.5°	401.4	357.1	322.6	296.3	283.2	279.9	276.6	273.4	272.5	270.9	269.3
55°	363.7	325.1	293.1	273.4	266.8	264.3	263.5	260.2	259.4	259.4	256.9
57.5°	330.0	297.2	268.4	256.1	252.0	249.5	247.9	246.3	246.3	247.9	247.1
60°	295.5	267.6	250.4	243.8	241.3	237.2	233.1	231.5	232.3	236.4	236.4
62.5°	261.9	241.3	230.7	228.2	225.7	222.5	217.5	215.9	217.5	222.5	224.9
65°	224.9	215.9	212.6	211.0	209.3	206.9	203.6	201.9	202.8	205.2	208.5
67.5°	191.3	190.4	190.4	191.3	190.4	189.6	188.0	185.5	184.7	184.7	186.3
70°	170.7	170.7	173.2	173.2	172.4	172.4	169.9	167.5	165.8	164.2	165.0
72.5°	155.1	155.1	156.0	156.8	156.0	156.0	152.7	151.0	146.9	146.1	144.5
75°	142.0	140.4	140.4	139.6	138.7	139.6	136.3	132.2	130.5	129.7	128.1
77.5°	128.9	125.6	124.0	122.3	123.1	122.3	119.8	117.4	114.9	114.1	113.3
80°	114.1	109.2	106.7	102.6	105.1	105.9	104.3	101.8	101.0	100.1	99.3
82.5°	94.4	89.5	86.2	83.7	82.1	83.7	86.2	91.9	90.3	89.5	87.8
85°	73.9	65.7	61.6	62.4	58.3	59.1	66.5	69.8	69.8	71.4	69.8
87.5°	41.9	40.2	30.4	27.9	29.6	35.3	39.4	43.5	43.5	41.0	46.0
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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CATALOG NUMBER: VST-E04-LED-E-U-SLL-7050

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7
2.5°	1326.5	1328.2	1329.0	1332.3	1333.9	1334.8	1335.6	1337.2	1338.0	1337.2	1341.3
5°	1333.1	1333.1	1331.5	1333.9	1334.8	1334.8	1333.1	1334.8	1334.8	1334.8	1338.9
7.5°	1350.4	1345.4	1343.0	1339.7	1337.2	1333.9	1329.8	1329.8	1329.0	1329.8	1332.3
10°	1368.4	1361.0	1352.0	1343.8	1336.4	1330.7	1323.3	1320.8	1320.0	1319.2	1325.7
12.5°	1382.4	1369.2	1355.3	1341.3	1326.5	1316.7	1304.4	1297.0	1296.2	1296.2	1304.4
15°	1372.5	1351.2	1324.1	1299.5	1286.3	1272.4	1258.4	1249.4	1248.6	1250.2	1255.1
17.5°	1323.3	1288.8	1265.0	1241.2	1223.9	1212.4	1203.4	1201.8	1205.1	1201.8	1208.3
20°	1239.5	1202.6	1186.2	1167.3	1160.7	1152.5	1139.4	1127.9	1127.9	1113.1	1117.2
22.5°	1131.2	1110.7	1089.3	1074.5	1069.6	1055.7	1041.7	1026.1	1024.5	1006.4	1003.9
25°	1017.9	997.4	980.1	976.9	962.1	943.2	930.1	912.0	907.9	889.8	887.4
27.5°	902.2	885.7	868.5	858.6	850.4	829.9	818.4	797.1	788.9	769.2	766.7
30°	792.2	780.7	760.1	751.9	736.3	712.5	687.9	674.8	668.2	647.7	641.1
32.5°	688.7	670.7	655.1	645.2	625.5	598.4	576.3	557.4	545.1	520.4	513.9
35°	590.2	572.2	564.8	539.3	522.1	504.0	473.7	462.2	440.0	421.1	414.5
37.5°	503.2	486.0	476.1	454.8	437.5	419.5	401.4	386.6	376.0	371.9	371.9
40°	428.5	419.5	407.2	391.6	380.1	366.9	357.1	352.2	351.3	353.0	357.1
42.5°	375.1	365.3	357.1	348.9	340.7	339.0	336.6	339.8	344.0	348.1	352.2
45°	334.9	326.7	321.8	318.5	317.7	320.1	325.1	330.0	337.4	342.3	345.6
47.5°	306.2	299.6	298.0	297.2	301.3	308.7	315.2	322.6	328.4	333.3	336.6
50°	281.6	275.8	275.0	274.2	279.9	286.5	292.2	302.1	306.2	309.5	311.9
52.5°	264.3	259.4	256.9	257.8	263.5	269.3	277.5	284.8	290.6	293.1	295.5
55°	250.4	248.7	243.0	245.4	251.2	258.6	266.8	275.0	280.7	284.8	289.0
57.5°	239.7	235.6	231.5	235.6	241.3	248.7	258.6	266.0	273.4	279.1	283.2
60°	228.2	224.9	221.6	225.7	231.5	238.9	246.3	256.1	265.1	270.9	275.0
62.5°	218.4	215.9	212.6	213.4	215.9	220.8	224.9	234.0	242.2	249.5	254.5
65°	204.4	203.6	198.7	199.5	201.1	206.0	209.3	217.5	225.7	232.3	236.4
67.5°	183.9	182.2	182.2	184.7	185.5	188.0	190.4	198.7	205.2	210.1	215.1
70°	163.4	162.5	162.5	164.2	163.4	165.8	169.1	176.5	184.7	189.6	194.5
72.5°	143.7	143.7	142.8	144.5	144.5	145.3	149.4	156.0	163.4	167.5	170.7
75°	126.4	125.6	125.6	125.6	126.4	126.4	130.5	136.3	143.7	146.1	151.0
77.5°	110.8	110.8	110.8	110.8	111.6	110.8	113.3	117.4	119.8	124.0	124.0
80°	97.7	96.9	97.7	98.5	98.5	97.7	97.7	98.5	99.3	99.3	99.3
82.5°	86.2	83.7	85.4	89.5	89.5	89.5	88.7	82.9	78.8	78.8	80.4
85°	69.0	69.0	69.8	75.5	76.3	73.1	76.3	68.1	59.9	57.5	59.1
87.5°	42.7	33.7	41.0	46.8	46.8	44.3	49.3	46.0	38.6	31.2	29.6
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-E04-LED-E-U-SLL-7050

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	0°
2.5°	1344.6	1345.4	1350.4	1352.8	1352.8	1356.1	1357.7	1362.7	1361.8	1361.8	1363.5	2.5°
5°	1343.0	1345.4	1350.4	1353.6	1355.3	1359.4	1362.7	1368.4	1367.6	1369.2	1370.1	5°
7.5°	1337.2	1343.8	1348.7	1355.3	1361.0	1364.3	1368.4	1373.3	1371.7	1372.5	1371.7	7.5°
10°	1332.3	1338.9	1348.7	1357.7	1366.0	1370.9	1373.3	1379.1	1378.3	1379.9	1379.9	10°
12.5°	1312.6	1324.1	1336.4	1350.4	1362.7	1375.8	1384.0	1396.3	1402.1	1409.5	1417.7	12.5°
15°	1262.5	1275.7	1295.4	1311.0	1334.8	1352.8	1376.6	1400.4	1421.8	1442.3	1466.1	15°
17.5°	1213.3	1219.0	1234.6	1256.0	1277.3	1304.4	1333.1	1375.8	1414.4	1456.2	1502.2	17.5°
20°	1122.1	1132.0	1142.7	1168.1	1193.6	1232.1	1267.4	1323.3	1379.9	1445.6	1516.2	20°
22.5°	1009.7	1019.5	1031.0	1059.8	1091.0	1130.4	1173.0	1235.4	1311.0	1396.3	1490.7	22.5°
25°	888.2	893.9	903.0	931.7	950.6	1002.3	1054.0	1118.9	1201.0	1311.0	1421.0	25°
27.5°	754.4	765.1	772.5	785.6	829.1	873.4	927.6	997.4	1096.7	1209.2	1342.1	27.5°
30°	626.3	635.4	631.3	659.2	687.9	734.7	793.0	870.1	965.4	1099.2	1252.7	30°
32.5°	500.7	507.3	504.8	524.5	553.3	600.1	655.1	738.8	839.8	982.6	1149.2	32.5°
35°	412.9	414.5	423.6	432.6	457.2	495.0	541.8	614.8	718.3	849.6	1026.1	35°
37.5°	371.9	375.1	380.9	393.2	411.3	438.4	476.9	533.6	622.2	738.0	895.6	37.5°
40°	359.5	362.0	365.3	373.5	390.7	414.5	449.0	496.6	561.5	659.2	787.2	40°
42.5°	353.8	353.8	353.8	358.7	371.9	397.3	436.7	483.5	540.1	614.0	717.5	42.5°
45°	345.6	345.6	344.8	347.2	356.3	381.7	424.4	476.9	537.7	608.3	697.8	45°
47.5°	336.6	335.7	333.3	333.3	339.0	364.5	408.8	465.4	531.9	613.2	709.2	47.5°
50°	311.9	311.9	311.9	314.4	319.3	342.3	389.9	449.8	526.2	616.5	727.3	50°
52.5°	298.0	298.8	301.3	301.3	306.2	330.0	380.1	446.6	529.5	628.8	750.3	52.5°
55°	291.4	293.9	296.3	296.3	300.4	325.1	376.8	449.0	541.8	654.2	789.7	55°
57.5°	285.7	288.1	289.8	289.8	293.1	314.4	367.8	444.9	549.2	678.9	838.1	57.5°
60°	275.0	276.6	277.5	277.5	278.3	296.3	347.2	425.2	532.8	677.2	864.4	60°
62.5°	255.3	258.6	259.4	260.2	260.2	277.5	321.0	393.2	497.5	652.6	857.0	62.5°
65°	240.5	242.2	244.6	246.3	249.5	261.0	295.5	354.6	451.5	603.4	816.0	65°
67.5°	217.5	220.0	222.5	225.7	229.0	236.4	263.5	311.1	389.1	519.6	724.0	67.5°
70°	197.0	197.8	200.3	204.4	205.2	209.3	229.0	261.9	318.5	417.0	582.8	70°
72.5°	171.6	173.2	176.5	181.4	181.4	184.7	196.2	213.4	249.5	318.5	430.1	72.5°
75°	149.4	151.0	153.5	153.5	149.4	150.2	158.4	170.7	197.8	239.7	313.6	75°
77.5°	124.0	127.2	129.7	124.8	123.1	125.6	129.7	138.7	158.4	190.4	235.6	77.5°
80°	102.6	104.3	105.1	105.9	104.3	106.7	110.0	115.7	128.9	153.5	186.3	80°
82.5°	82.1	83.7	86.2	89.5	89.5	98.5	99.3	99.3	106.7	122.3	146.1	82.5°
85°	60.7	64.0	67.3	71.4	72.2	77.2	74.7	73.9	76.3	91.1	101.0	85°
87.5°	31.2	33.7	35.3	38.6	34.5	36.1	36.1	33.7	29.6	36.9	41.0	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: P158881

NUMBER: VST-E04-LED-E-U-SLL-7050

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7
1365.1	1363.5	1365.1	1365.1	1367.6	1366.0	1453.0
1371.7	1370.1	1371.7	1373.3	1375.8	1375.8	1471.8
1372.5	1372.5	1370.9	1375.0	1378.3	1381.5	1489.9
1382.4	1382.4	1384.0	1384.8	1392.2	1400.4	1519.5
1422.6	1426.7	1434.1	1436.5	1449.7	1458.7	1595.0
1484.2	1507.1	1521.9	1526.8	1538.3	1555.6	1722.2
1546.5	1585.1	1625.4	1650.0	1664.8	1685.3	1878.2
1593.3	1665.6	1734.5	1796.1	1831.4	1871.6	2096.5
1597.4	1712.4	1828.9	1943.0	2037.4	2112.1	2392.1
1558.0	1709.1	1870.0	2044.8	2207.4	2342.0	2731.9
1508.0	1693.5	1898.7	2122.0	2335.4	2534.1	2982.3
1444.8	1667.2	1903.6	2154.8	2405.2	2644.1	3125.1
1348.7	1589.2	1844.5	2122.0	2412.6	2703.2	3217.0
1225.6	1471.0	1732.9	2048.9	2378.1	2727.0	3294.2
1100.0	1342.1	1623.7	1951.2	2323.1	2722.9	3325.4
967.0	1207.5	1495.7	1847.0	2248.4	2685.1	3319.7
876.7	1095.9	1378.3	1741.1	2165.5	2635.0	3281.1
824.2	1016.3	1285.5	1644.2	2090.0	2575.1	3232.6
823.3	992.4	1236.3	1575.3	2013.6	2508.6	3167.0
852.1	1007.2	1230.5	1545.7	1971.8	2460.2	3095.6
885.7	1048.3	1260.9	1556.4	1970.9	2438.8	3045.5
939.1	1118.0	1327.4	1602.4	1992.3	2435.6	2983.9
1007.2	1212.4	1447.2	1715.6	2075.2	2500.4	2988.0
1077.0	1323.3	1604.0	1909.4	2238.6	2651.5	3117.7
1102.4	1408.6	1763.3	2136.8	2483.2	2878.0	3385.3
1080.3	1428.3	1860.1	2313.3	2721.2	3143.2	3704.7
998.2	1348.7	1820.7	2363.3	2858.3	3331.1	4024.0
821.7	1150.9	1641.8	2250.9	2847.6	3369.7	4138.9
602.5	892.3	1334.8	1912.7	2531.6	3128.4	3966.5
435.1	631.3	963.7	1440.7	2001.3	2519.3	3327.0
311.9	437.5	625.5	946.5	1363.5	1754.2	2371.5
224.1	297.2	389.9	568.1	830.7	1077.0	1489.9
165.0	203.6	256.1	353.0	489.2	627.2	897.2
112.5	119.8	154.3	208.5	321.0	461.3	609.1
42.7	48.4	56.6	85.4	143.7	165.0	116.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)