

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: P158896

Luminaire Tested: **VST-F05-LED-E-U-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158896
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-F05-LED-E-U-SLL-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (35) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11381.7 lumens
Efficiency: N/A
Efficacy: 85.4 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): 133.3
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



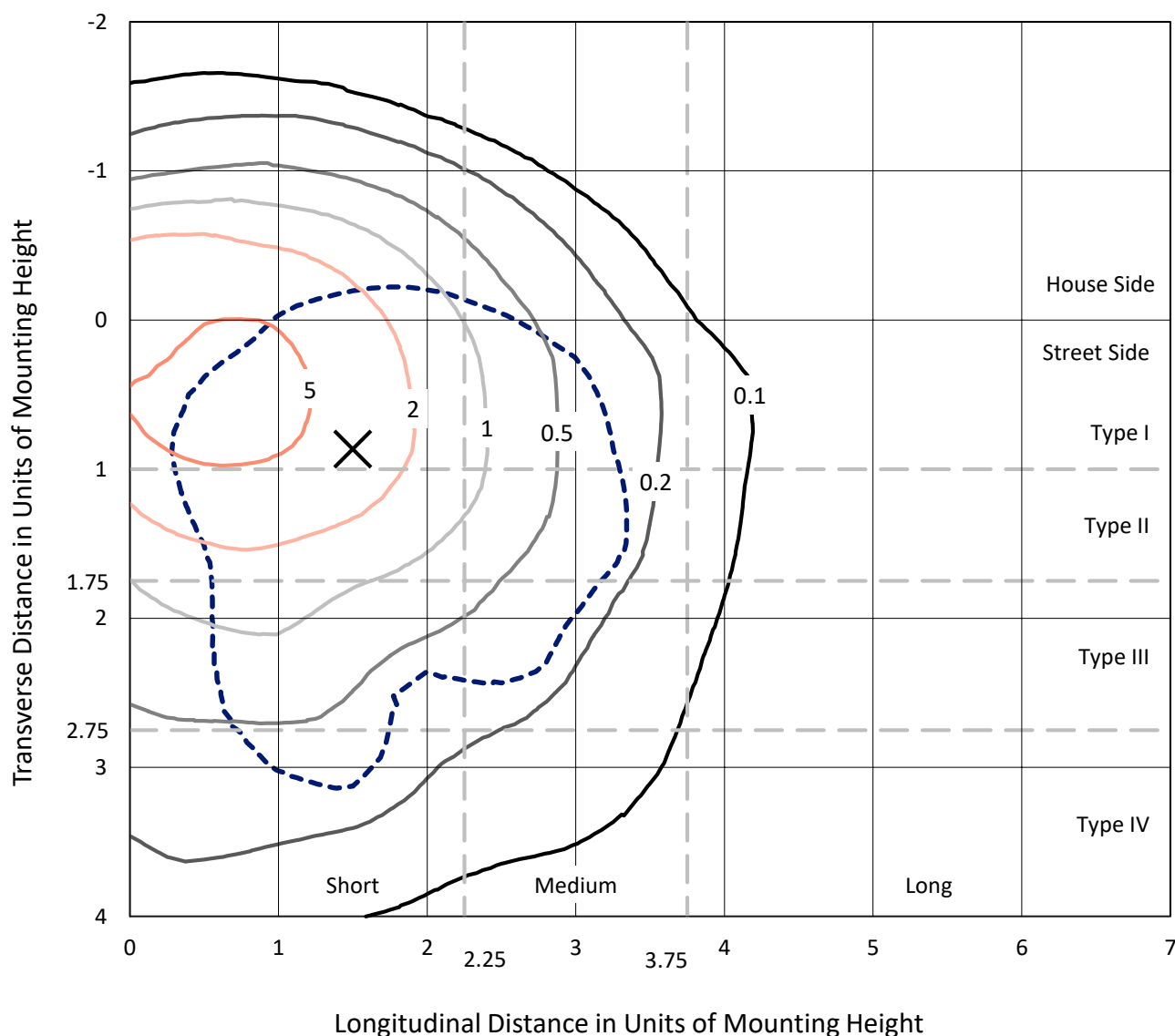
REPORT NUMBER: P158896

CATALOG NUMBER: VST-F05-LED-E-U-SLL-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

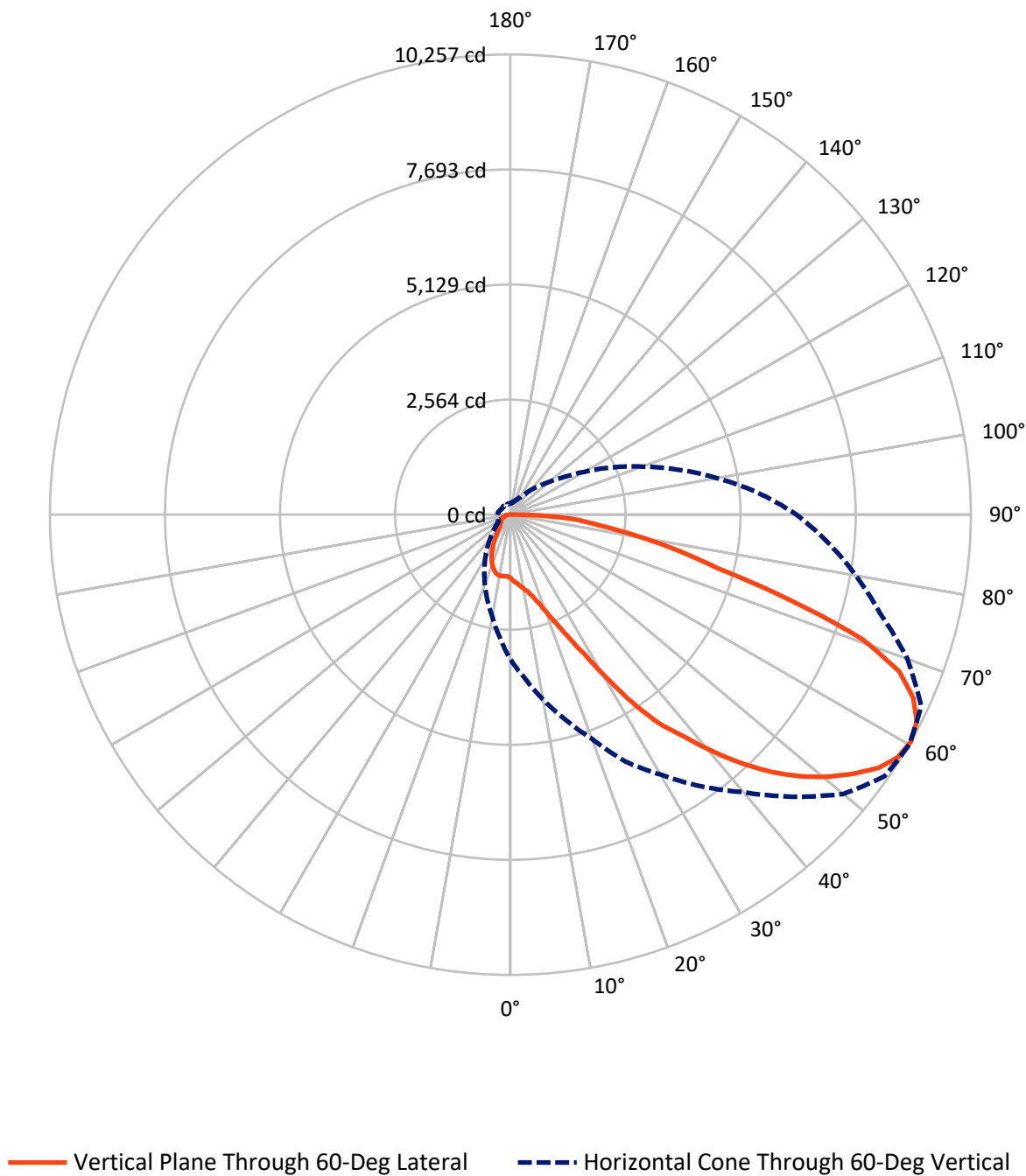


Based on 20 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P158896

CATALOG NUMBER: VST-F05-LED-E-U-SLL-7050

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2562.8	0.0	2562.8
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	8818.9	0.0	8818.9
	% Fixture	77.5	0.0	77.5
Total	Lumens	11381.7	0.0	11381.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	1.2
10°-20°	450.9	4.0
20°-30°	855.6	7.5
30°-40°	1347.4	11.8
40°-50°	1880.7	16.5
50°-60°	2325.9	20.4
60°-70°	2411.0	21.2
70°-80°	1517.1	13.3
80°-90°	453.5	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°	11381.7	100.0
0°-180°	11381.7	100.0

Coefficient of Utilization



REPORT NUMBER: P158896

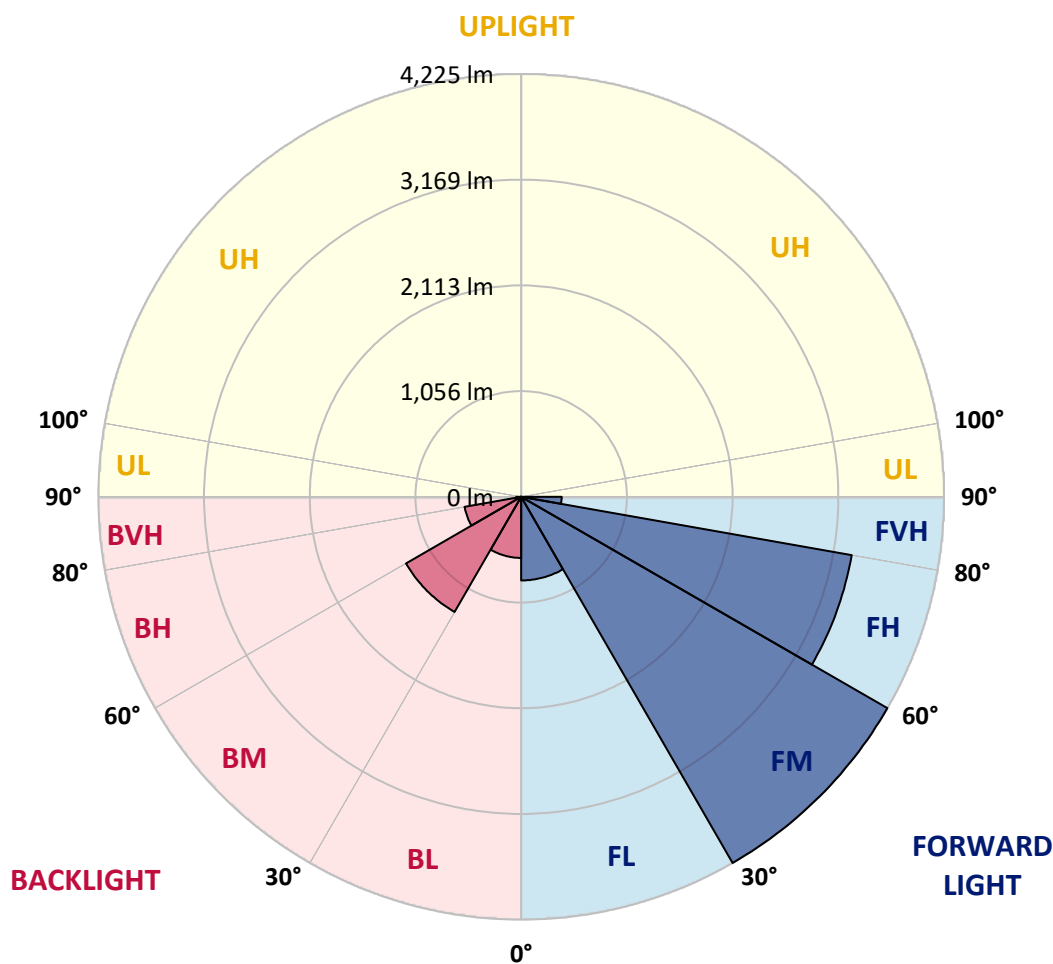
CATALOG NUMBER: VST-F05-LED-E-U-SLL-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	835.6	7.3			
FM	(30°-60°)	4225.1	37.1			
FH	(60°-80°)	3354.1	29.5			G2/5000
FVH	(80°-90°)	404.2	3.6			G3/500
BL	(0°-30°)	610.5	5.4	B2/1000		
BM	(30°-60°)	1329.0	11.7	B2/2500		
BH	(60°-80°)	573.9	5.0	B2/1000		G2/1000
BVH	(80°-90°)	49.3	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





REPORT NUMBER: P158896

CATALOG NUMBER: VST-F05-LED-E-U-SLL-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5
2.5°	1499.3	1497.6	1497.6	1497.6	1496.8	1495.1	1497.6	1496.8	1492.5	1490.0	1492.5
5°	1518.8	1519.7	1522.2	1523.0	1523.0	1525.6	1532.4	1533.2	1532.4	1534.1	1538.3
7.5°	1537.4	1541.7	1544.2	1548.5	1553.5	1557.8	1569.6	1581.5	1589.1	1595.0	1596.7
10°	1567.9	1574.7	1582.3	1593.3	1605.2	1626.4	1636.6	1648.4	1656.0	1667.9	1670.4
12.5°	1645.9	1654.3	1659.4	1676.4	1691.6	1711.9	1726.3	1729.7	1747.5	1757.7	1769.5
15°	1777.2	1789.9	1807.7	1817.8	1834.8	1852.6	1865.3	1882.2	1884.7	1898.3	1907.6
17.5°	1938.1	1955.9	1992.3	2016.9	2038.9	2056.7	2082.1	2101.6	2105.8	2121.1	2101.6
20°	2163.4	2206.6	2212.6	2261.7	2281.2	2316.8	2367.6	2376.9	2401.5	2376.9	2362.5
22.5°	2468.4	2536.1	2554.8	2602.2	2625.9	2680.1	2695.4	2745.4	2762.3	2743.7	2704.7
25°	2819.1	2924.1	2978.3	3051.2	3063.0	3174.0	3185.9	3244.3	3213.0	3168.1	3168.9
27.5°	3077.4	3256.2	3395.9	3520.4	3607.7	3733.1	3830.5	3857.6	3827.9	3769.5	3749.2
30°	3224.8	3427.3	3628.0	3800.0	4003.3	4194.7	4393.8	4492.9	4509.8	4540.3	4417.5
32.5°	3319.7	3579.7	3818.6	4031.2	4239.6	4486.1	4752.9	5007.9	5222.2	5384.0	5307.8
35°	3399.3	3720.4	4026.2	4283.7	4530.2	4798.7	5068.1	5368.8	5723.7	5931.2	5974.4
37.5°	3431.5	3823.7	4198.1	4528.5	4874.9	5177.3	5445.0	5712.7	6085.4	6455.6	6569.9
40°	3425.6	3874.5	4300.6	4715.7	5140.1	5517.9	5831.3	6148.1	6584.3	7017.2	7203.5
42.5°	3385.8	3882.1	4365.8	4840.2	5323.9	5826.2	6226.9	6591.9	7010.4	7565.2	7828.7
45°	3335.8	3855.9	4379.4	4903.7	5460.2	6041.3	6547.9	6999.4	7489.8	8037.9	8356.4
47.5°	3268.0	3814.4	4362.4	4925.7	5521.2	6179.4	6774.9	7317.9	7857.5	8488.5	8892.6
50°	3194.3	3755.1	4327.7	4909.7	5536.5	6254.8	6904.5	7522.9	8153.1	8834.2	9344.9
52.5°	3142.7	3691.6	4296.4	4876.6	5521.2	6277.7	6951.9	7633.0	8334.4	9038.3	9648.2
55°	3079.1	3606.8	4212.5	4799.5	5465.3	6265.0	6946.9	7671.1	8384.4	9117.1	9813.4
57.5°	3083.4	3567.9	4141.4	4707.2	5351.0	6147.2	6851.1	7633.0	8305.6	9066.3	9819.3
60°	3217.2	3651.7	4178.6	4725.8	5317.1	6072.7	6688.5	7387.3	8074.3	8890.9	9682.1
62.5°	3493.3	3891.5	4370.1	4912.2	5507.7	6221.8	6614.8	6979.1	7589.0	8568.2	9448.3
65°	3822.9	4182.0	4597.1	5112.9	5780.4	6464.0	6573.3	6647.0	6955.3	7940.5	9009.5
67.5°	4152.4	4473.4	4799.5	5227.3	5935.5	6533.5	6403.9	6228.5	6394.6	7211.2	8147.2
70°	4271.0	4697.0	4911.3	5205.3	5817.7	6371.7	6130.3	5689.0	5746.6	6488.6	7173.0
72.5°	4093.1	4700.4	4771.6	4880.8	5293.4	5814.3	5559.4	4991.8	4980.0	5546.7	6099.8
75°	3433.2	4287.9	4287.0	4246.4	4339.6	4636.0	4503.9	4161.7	4306.5	4752.9	4935.1
77.5°	2447.2	3345.9	3388.3	3114.7	3107.9	3241.8	3321.4	3719.5	4244.7	4495.4	4437.8
80°	1537.4	2257.5	2439.6	2101.6	2029.6	2219.3	2711.5	3290.9	3937.2	4162.5	3968.5
82.5°	925.9	1454.4	1842.4	1651.0	1634.0	1979.6	2523.4	2748.8	2942.7	3182.5	2858.0
85°	628.5	969.1	1260.4	1298.6	1446.8	1804.3	2040.6	1940.7	1945.7	1883.0	1715.3
87.5°	120.3	264.3	432.0	526.9	584.5	785.2	853.9	773.4	816.6	597.2	653.1
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: P158896

CATALOG NUMBER: VST-F05-LED-E-U-SLL-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5
2.5°	1488.3	1488.3	1488.3	1484.1	1484.9	1479.0	1476.5	1476.5	1473.9	1473.9	1473.1
5°	1534.9	1529.8	1532.4	1531.5	1531.5	1523.0	1518.8	1518.8	1507.8	1508.6	1505.3
7.5°	1604.4	1603.5	1606.1	1601.0	1594.2	1587.4	1580.6	1577.3	1562.0	1552.7	1546.8
10°	1683.1	1682.3	1684.8	1684.0	1672.1	1659.4	1640.8	1627.2	1608.6	1594.2	1579.8
12.5°	1769.5	1768.7	1767.0	1759.4	1746.7	1726.3	1702.6	1679.8	1651.8	1633.2	1612.0
15°	1904.2	1901.7	1891.5	1880.5	1867.0	1835.6	1794.1	1761.1	1723.8	1691.6	1656.9
17.5°	2103.3	2082.1	2080.4	2055.9	2019.4	1977.9	1939.0	1883.9	1830.5	1782.2	1734.8
20°	2377.7	2328.6	2315.1	2287.1	2238.8	2195.6	2110.9	2037.2	1964.4	1898.3	1838.2
22.5°	2676.8	2641.2	2608.1	2562.4	2496.3	2433.6	2326.1	2233.7	2140.6	2055.9	1988.9
25°	3094.4	3032.5	2973.2	2900.4	2808.9	2734.4	2611.5	2518.4	2396.4	2319.3	2222.7
27.5°	3634.0	3528.1	3428.1	3365.4	3204.5	3096.1	2939.4	2819.1	2671.7	2567.5	2453.1
30°	4336.2	4213.4	4065.1	3848.3	3656.8	3441.7	3247.7	3093.5	2936.8	2791.1	2659.0
32.5°	5207.0	4990.1	4755.5	4411.6	4097.3	3790.7	3532.3	3342.6	3182.5	3001.2	2814.8
35°	5943.1	5719.5	5386.6	4949.5	4561.5	4210.8	3901.6	3642.4	3433.2	3203.6	2957.1
37.5°	6524.2	6269.2	5956.6	5492.4	5082.5	4683.5	4359.1	4028.7	3754.2	3438.3	3126.6
40°	7190.0	6934.2	6590.2	6109.1	5623.7	5190.9	4810.5	4469.2	4132.0	3746.6	3345.9
42.5°	7770.2	7585.6	7237.4	6740.2	6202.3	5720.3	5304.4	4913.9	4473.4	4042.2	3567.9
45°	8375.0	8187.0	7856.6	7336.5	6764.7	6227.7	5730.5	5310.3	4790.2	4276.9	3733.9
47.5°	8909.5	8716.4	8382.7	7865.9	7258.6	6692.7	6145.5	5637.3	5033.3	4443.8	3842.3
50°	9419.5	9183.1	8877.4	8362.3	7713.5	7108.7	6514.9	5862.6	5222.2	4560.7	3916.0
52.5°	9887.9	9587.2	9297.5	8767.2	8065.9	7433.9	6771.5	6054.0	5338.3	4653.0	3966.0
55°	10153.9	9959.9	9613.5	9092.5	8316.6	7657.6	6934.2	6188.7	5453.5	4718.2	3987.2
57.5°	10236.1	10188.6	9898.1	9280.6	8464.0	7780.4	7044.3	6295.5	5530.6	4736.8	3957.5
60°	10170.8	10257.2	10098.0	9412.7	8530.9	7816.8	7098.5	6371.7	5544.1	4677.6	3867.7
62.5°	9961.6	10158.1	10137.8	9456.8	8496.2	7771.1	7092.6	6332.7	5417.0	4492.9	3666.1
65°	9617.7	9865.0	9952.3	9293.3	8300.5	7604.2	6941.8	6087.9	5063.8	4132.0	3328.2
67.5°	8970.5	9344.9	9429.6	8757.9	7788.9	7142.5	6507.2	5579.7	4409.9	3573.8	2800.4
70°	7673.7	8328.4	8442.8	7738.0	6886.7	6319.2	5780.4	4774.1	3672.1	2866.5	2149.0
72.5°	6126.1	6537.7	6771.5	6286.1	5652.5	5240.9	4832.6	3662.8	2770.8	2115.1	1479.0
75°	4789.4	4764.8	4974.0	4651.3	4278.6	4086.3	3779.7	2555.6	1855.9	1401.1	936.0
77.5°	4094.8	3779.7	3541.6	3314.6	3093.5	3032.5	2738.6	1585.7	1146.9	839.5	559.9
80°	3403.5	2828.4	2393.8	2074.5	1995.7	2116.0	1792.4	935.2	679.4	482.0	351.5
82.5°	2432.0	2034.7	1656.0	1453.6	1318.9	1510.3	1057.2	519.3	368.5	288.9	232.9
85°	1576.4	1506.9	1490.9	1424.8	1261.3	1191.0	803.0	447.3	276.1	179.6	144.8
87.5°	606.5	777.6	897.1	961.4	1039.4	925.9	418.5	154.2	151.6	93.2	70.3
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: P158896

CATALOG NUMBER: VST-F05-LED-E-U-SLL-7050

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5
2.5°	1467.1	1463.7	1462.9	1460.4	1458.7	1458.7	1454.4	1377.3	1376.5	1376.5	1375.7
5°	1498.5	1494.2	1490.0	1489.2	1485.8	1485.8	1481.5	1404.5	1404.5	1404.5	1402.8
7.5°	1540.8	1532.4	1527.3	1524.7	1519.7	1522.2	1525.6	1447.7	1448.5	1447.7	1449.3
10°	1571.3	1566.2	1560.3	1558.6	1555.2	1557.8	1562.9	1485.8	1488.3	1489.2	1490.9
12.5°	1601.0	1592.5	1584.9	1582.3	1580.6	1587.4	1593.3	1518.8	1521.3	1523.9	1523.9
15°	1637.4	1623.0	1612.8	1606.9	1603.5	1610.3	1618.8	1545.1	1545.9	1548.5	1547.6
17.5°	1699.2	1678.1	1654.3	1650.1	1639.1	1641.6	1643.3	1561.2	1557.8	1551.8	1541.7
20°	1795.0	1762.8	1730.6	1717.0	1695.0	1685.7	1667.0	1562.0	1540.8	1523.0	1507.8
22.5°	1932.2	1884.7	1850.0	1827.1	1782.2	1750.9	1700.1	1557.8	1518.0	1487.5	1463.7
25°	2154.1	2097.4	2044.0	1986.4	1916.1	1853.4	1778.9	1595.0	1533.2	1480.7	1434.9
27.5°	2370.1	2280.3	2198.2	2111.8	2012.7	1918.6	1813.6	1606.9	1536.6	1468.8	1394.3
30°	2531.9	2401.5	2276.9	2150.7	2021.1	1899.1	1780.6	1566.2	1482.4	1406.1	1327.4
32.5°	2630.2	2460.8	2299.0	2142.3	1989.8	1852.6	1719.6	1495.9	1403.6	1313.8	1230.0
35°	2723.3	2513.3	2312.5	2127.9	1953.4	1800.9	1657.7	1413.8	1303.6	1207.9	1102.0
37.5°	2838.6	2568.3	2321.0	2101.6	1900.0	1725.5	1567.9	1310.4	1200.3	1082.6	982.6
40°	2976.6	2625.1	2312.5	2049.1	1817.0	1626.4	1459.5	1202.0	1079.2	964.8	866.6
42.5°	3107.9	2675.1	2290.5	1978.8	1726.3	1523.0	1360.4	1105.4	982.6	865.7	768.3
45°	3205.3	2717.4	2279.5	1929.6	1656.9	1452.7	1273.2	1027.5	897.9	780.2	681.0
47.5°	3273.1	2742.8	2274.4	1902.5	1608.6	1379.9	1193.5	949.6	813.2	694.6	598.0
50°	3308.7	2742.0	2261.7	1872.9	1537.4	1292.6	1111.4	870.8	735.3	619.2	531.1
52.5°	3318.0	2726.7	2234.6	1818.7	1451.0	1205.4	1023.3	788.6	666.6	555.7	466.7
55°	3296.8	2689.5	2177.8	1728.0	1358.7	1113.1	942.8	724.2	599.7	494.7	425.2
57.5°	3236.7	2623.4	2071.1	1603.5	1261.3	1027.5	850.5	646.3	526.9	438.8	381.2
60°	3124.9	2483.6	1904.2	1456.1	1137.6	897.1	723.4	544.7	449.8	383.7	337.1
62.5°	2918.2	2264.2	1669.6	1252.8	959.7	727.6	577.7	434.5	363.4	320.2	291.4
65°	2585.3	1933.9	1397.7	986.8	729.3	529.4	429.5	327.0	275.3	249.0	240.6
67.5°	2110.1	1493.4	1016.5	685.3	493.8	371.0	299.0	238.9	214.3	204.1	200.8
70°	1534.1	1017.3	658.2	432.9	326.1	259.2	226.2	192.3	178.7	176.2	176.2
72.5°	963.1	618.4	403.2	296.5	247.3	210.1	193.1	169.4	164.3	162.6	160.1
75°	565.0	375.3	285.5	243.1	211.8	188.1	173.7	154.2	150.8	149.9	147.4
77.5°	360.0	270.2	230.4	207.5	191.4	170.3	157.6	137.2	136.4	135.5	134.7
80°	258.4	224.5	201.6	183.8	167.7	148.2	140.6	124.5	122.8	122.0	123.7
82.5°	195.7	185.5	176.2	162.6	140.6	126.2	120.3	109.3	110.1	105.9	105.0
85°	134.7	133.0	132.1	126.2	110.1	97.4	93.2	87.2	91.5	87.2	82.2
87.5°	66.1	65.2	60.1	71.2	66.1	52.5	47.4	52.5	58.4	56.8	52.5
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: P158896

CATALOG NUMBER: VST-F05-LED-E-U-SLL-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5
2.5°	1372.3	1368.9	1371.4	1369.7	1369.7	1368.9	1370.6	1368.0	1366.3	1368.0	1368.9
5°	1399.4	1395.1	1396.0	1390.1	1392.6	1386.7	1388.4	1384.1	1379.9	1378.2	1378.2
7.5°	1445.1	1440.9	1435.8	1434.9	1425.6	1422.2	1416.3	1412.9	1410.4	1404.5	1401.1
10°	1486.6	1479.8	1473.9	1473.1	1463.7	1455.3	1447.7	1440.9	1436.6	1428.2	1423.9
12.5°	1520.5	1513.7	1504.4	1499.3	1490.0	1479.8	1474.8	1464.6	1458.7	1449.3	1441.7
15°	1540.0	1528.1	1514.6	1505.3	1491.7	1480.7	1473.1	1465.4	1459.5	1447.7	1436.6
17.5°	1530.7	1511.2	1492.5	1475.6	1457.0	1446.8	1435.8	1426.5	1424.8	1411.2	1394.3
20°	1491.7	1468.8	1444.3	1421.4	1396.8	1382.4	1368.9	1354.5	1350.2	1334.1	1312.1
22.5°	1444.3	1418.0	1390.1	1362.1	1330.8	1310.4	1290.1	1272.3	1257.9	1234.2	1202.8
25°	1396.0	1357.0	1316.4	1280.8	1244.4	1218.9	1197.8	1178.3	1161.3	1123.2	1091.0
27.5°	1332.4	1271.5	1230.0	1189.3	1145.2	1112.2	1088.5	1061.4	1042.8	998.7	964.8
30°	1251.1	1190.1	1130.8	1090.2	1046.1	1010.6	980.1	941.1	914.0	881.8	850.5
32.5°	1148.6	1087.6	1027.5	981.8	945.3	901.3	863.2	825.9	794.6	763.2	738.6
35°	1024.1	964.8	908.1	862.3	821.7	786.9	750.5	718.3	682.7	648.9	634.5
37.5°	892.8	829.3	766.6	726.8	694.6	670.0	636.2	609.9	577.7	557.4	540.4
40°	778.5	710.7	651.4	617.5	592.1	564.2	536.2	515.9	493.0	472.7	460.0
42.5°	681.9	618.4	567.5	538.7	508.2	477.8	456.6	439.6	425.2	410.0	394.7
45°	593.0	532.0	489.6	454.0	428.6	404.1	389.7	382.0	373.6	364.2	354.1
47.5°	518.4	465.9	424.4	391.3	365.1	348.1	341.4	338.8	335.4	327.8	322.7
50°	461.7	418.5	376.1	346.5	324.4	316.0	308.3	305.8	301.6	299.0	295.6
52.5°	414.2	368.5	332.9	305.8	292.2	288.9	285.5	282.1	281.2	279.5	277.8
55°	375.3	335.4	302.4	282.1	275.3	272.8	271.9	268.5	267.7	267.7	265.1
57.5°	340.5	306.6	277.0	264.3	260.1	257.5	255.8	254.1	254.1	255.8	255.0
60°	304.9	276.1	258.4	251.6	249.0	244.8	240.6	238.9	239.7	244.0	244.0
62.5°	270.2	249.0	238.0	235.5	232.9	229.6	224.5	222.8	224.5	229.6	232.1
65°	232.1	222.8	219.4	217.7	216.0	213.5	210.1	208.4	209.2	211.8	215.2
67.5°	197.4	196.5	196.5	197.4	196.5	195.7	194.0	191.4	190.6	190.6	192.3
70°	176.2	176.2	178.7	178.7	177.9	177.9	175.3	172.8	171.1	169.4	170.3
72.5°	160.1	160.1	160.9	161.8	160.9	160.9	157.6	155.9	151.6	150.8	149.1
75°	146.5	144.8	144.8	144.0	143.2	144.0	140.6	136.4	134.7	133.8	132.1
77.5°	133.0	129.6	127.9	126.2	127.1	126.2	123.7	121.1	118.6	117.7	116.9
80°	117.7	112.7	110.1	105.9	108.4	109.3	107.6	105.0	104.2	103.3	102.5
82.5°	97.4	92.3	88.9	86.4	84.7	86.4	88.9	94.9	93.2	92.3	90.6
85°	76.2	67.8	63.5	64.4	60.1	61.0	68.6	72.0	72.0	73.7	72.0
87.5°	43.2	41.5	31.3	28.8	30.5	36.4	40.7	44.9	44.9	42.4	47.4
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: P158896

CATALOG NUMBER: VST-F05-LED-E-U-SLL-7050

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5
2.5°	1368.9	1370.6	1371.4	1374.8	1376.5	1377.3	1378.2	1379.9	1380.7	1379.9	1384.1
5°	1375.7	1375.7	1374.0	1376.5	1377.3	1377.3	1375.7	1377.3	1377.3	1377.3	1381.6
7.5°	1393.4	1388.4	1385.8	1382.4	1379.9	1376.5	1372.3	1372.3	1371.4	1372.3	1374.8
10°	1412.1	1404.5	1395.1	1386.7	1379.0	1373.1	1365.5	1362.9	1362.1	1361.3	1368.0
12.5°	1426.5	1412.9	1398.5	1384.1	1368.9	1358.7	1346.0	1338.4	1337.5	1337.5	1346.0
15°	1416.3	1394.3	1366.3	1340.9	1327.4	1313.0	1298.6	1289.2	1288.4	1290.1	1295.2
17.5°	1365.5	1329.9	1305.3	1280.8	1263.0	1251.1	1241.8	1240.1	1243.5	1240.1	1246.9
20°	1279.1	1241.0	1224.0	1204.5	1197.8	1189.3	1175.7	1163.9	1163.9	1148.6	1152.9
22.5°	1167.3	1146.1	1124.1	1108.8	1103.7	1089.3	1074.9	1058.8	1057.2	1038.5	1036.0
25°	1050.4	1029.2	1011.4	1008.0	992.8	973.3	959.7	941.1	936.9	918.2	915.7
27.5°	930.9	914.0	896.2	886.0	877.6	856.4	844.5	822.5	814.0	793.7	791.2
30°	817.4	805.6	784.4	775.9	759.8	735.3	709.8	696.3	689.5	668.3	661.6
32.5°	710.7	692.1	676.0	665.8	645.5	617.5	594.6	575.2	562.5	537.0	530.3
35°	609.0	590.4	582.8	556.5	538.7	520.1	488.8	476.9	454.0	434.5	427.8
37.5°	519.3	501.5	491.3	469.3	451.5	432.9	414.2	399.0	388.0	383.7	383.7
40°	442.2	432.9	420.1	404.1	392.2	378.6	368.5	363.4	362.5	364.2	368.5
42.5°	387.1	376.9	368.5	360.0	351.5	349.8	347.3	350.7	354.9	359.2	363.4
45°	345.6	337.1	332.1	328.7	327.8	330.4	335.4	340.5	348.1	353.2	356.6
47.5°	316.0	309.2	307.5	306.6	310.9	318.5	325.3	332.9	338.8	343.9	347.3
50°	290.5	284.6	283.8	282.9	288.9	295.6	301.6	311.7	316.0	319.3	321.9
52.5°	272.8	267.7	265.1	266.0	271.9	277.8	286.3	293.9	299.9	302.4	304.9
55°	258.4	256.7	250.7	253.3	259.2	266.8	275.3	283.8	289.7	293.9	298.2
57.5°	247.3	243.1	238.9	243.1	249.0	256.7	266.8	274.5	282.1	288.0	292.2
60°	235.5	232.1	228.7	232.9	238.9	246.5	254.1	264.3	273.6	279.5	283.8
62.5°	225.3	222.8	219.4	220.2	222.8	227.9	232.1	241.4	249.9	257.5	262.6
65°	210.9	210.1	205.0	205.8	207.5	212.6	216.0	224.5	232.9	239.7	244.0
67.5°	189.7	188.1	188.1	190.6	191.4	194.0	196.5	205.0	211.8	216.9	221.9
70°	168.6	167.7	167.7	169.4	168.6	171.1	174.5	182.1	190.6	195.7	200.8
72.5°	148.2	148.2	147.4	149.1	149.1	149.9	154.2	160.9	168.6	172.8	176.2
75°	130.4	129.6	129.6	129.6	130.4	130.4	134.7	140.6	148.2	150.8	155.9
77.5°	114.4	114.4	114.4	114.4	115.2	114.4	116.9	121.1	123.7	127.9	127.9
80°	100.8	100.0	100.8	101.6	101.6	100.8	100.8	101.6	102.5	102.5	102.5
82.5°	88.9	86.4	88.1	92.3	92.3	92.3	91.5	85.6	81.3	81.3	83.0
85°	71.2	71.2	72.0	77.9	78.8	75.4	78.8	70.3	61.8	59.3	61.0
87.5°	44.0	34.7	42.4	48.3	48.3	45.7	50.8	47.4	39.8	32.2	30.5
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: P158896
CATALOG NUMBER: VST-F05-LED-E-U-SLL-7050

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	0°
2.5°	1387.5	1388.4	1393.4	1396.0	1396.0	1399.4	1401.1	1406.1	1405.3	1405.3	1407.0	2.5°
5°	1385.8	1388.4	1393.4	1396.8	1398.5	1402.8	1406.1	1412.1	1411.2	1412.9	1413.8	5°
7.5°	1379.9	1386.7	1391.7	1398.5	1404.5	1407.8	1412.1	1417.2	1415.5	1416.3	1415.5	7.5°
10°	1374.8	1381.6	1391.7	1401.1	1409.5	1414.6	1417.2	1423.1	1422.2	1423.9	1423.9	10°
12.5°	1354.5	1366.3	1379.0	1393.4	1406.1	1419.7	1428.2	1440.9	1446.8	1454.4	1462.9	12.5°
15°	1302.8	1316.4	1336.7	1352.8	1377.3	1396.0	1420.5	1445.1	1467.1	1488.3	1512.9	15°
17.5°	1252.0	1257.9	1274.0	1296.0	1318.0	1346.0	1375.7	1419.7	1459.5	1502.7	1550.1	17.5°
20°	1158.0	1168.1	1179.1	1205.4	1231.6	1271.5	1307.9	1365.5	1423.9	1491.7	1564.5	20°
22.5°	1041.9	1052.1	1063.9	1093.6	1125.8	1166.4	1210.5	1274.8	1352.8	1440.9	1538.3	22.5°
25°	916.5	922.5	931.8	961.4	980.9	1034.3	1087.6	1154.6	1239.3	1352.8	1466.3	25°
27.5°	778.5	789.5	797.1	810.7	855.5	901.3	957.2	1029.2	1131.7	1247.7	1385.0	27.5°
30°	646.3	655.6	651.4	680.2	709.8	758.1	818.3	897.9	996.2	1134.2	1292.6	30°
32.5°	516.7	523.5	521.0	541.3	570.9	619.2	676.0	762.4	866.6	1013.9	1185.9	32.5°
35°	426.1	427.8	437.1	446.4	471.8	510.8	559.1	634.5	741.2	876.7	1058.8	35°
37.5°	383.7	387.1	393.0	405.7	424.4	452.3	492.2	550.6	642.1	761.5	924.2	37.5°
40°	371.0	373.6	376.9	385.4	403.2	427.8	463.4	512.5	579.4	680.2	812.3	40°
42.5°	365.1	365.1	365.1	370.2	383.7	410.0	450.6	498.9	557.4	633.6	740.3	42.5°
45°	356.6	356.6	355.8	358.3	367.6	393.9	437.9	492.2	554.8	627.7	720.0	45°
47.5°	347.3	346.5	343.9	343.9	349.8	376.1	421.8	480.3	548.9	632.8	731.9	47.5°
50°	321.9	321.9	321.9	324.4	329.5	353.2	402.4	464.2	543.0	636.2	750.5	50°
52.5°	307.5	308.3	310.9	310.9	316.0	340.5	392.2	460.8	546.4	648.9	774.2	52.5°
55°	300.7	303.3	305.8	305.8	310.0	335.4	388.8	463.4	559.1	675.1	814.9	55°
57.5°	294.8	297.3	299.0	299.0	302.4	324.4	379.5	459.1	566.7	700.5	864.9	57.5°
60°	283.8	285.5	286.3	286.3	287.2	305.8	358.3	438.8	549.8	698.8	892.0	60°
62.5°	263.4	266.8	267.7	268.5	268.5	286.3	331.2	405.7	513.3	673.4	884.3	62.5°
65°	248.2	249.9	252.4	254.1	257.5	269.4	304.9	365.9	465.9	622.6	842.0	65°
67.5°	224.5	227.0	229.6	232.9	236.3	244.0	271.9	321.0	401.5	536.2	747.1	67.5°
70°	203.3	204.1	206.7	210.9	211.8	216.0	236.3	270.2	328.7	430.3	601.4	70°
72.5°	177.0	178.7	182.1	187.2	187.2	190.6	202.5	220.2	257.5	328.7	443.9	72.5°
75°	154.2	155.9	158.4	158.4	154.2	155.0	163.5	176.2	204.1	247.3	323.6	75°
77.5°	127.9	131.3	133.8	128.8	127.1	129.6	133.8	143.2	163.5	196.5	243.1	77.5°
80°	105.9	107.6	108.4	109.3	107.6	110.1	113.5	119.4	133.0	158.4	192.3	80°
82.5°	84.7	86.4	88.9	92.3	92.3	101.6	102.5	102.5	110.1	126.2	150.8	82.5°
85°	62.7	66.1	69.5	73.7	74.5	79.6	77.1	76.2	78.8	94.0	104.2	85°
87.5°	32.2	34.7	36.4	39.8	35.6	37.3	37.3	34.7	30.5	38.1	42.4	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: P158896

NUMBER: VST-F05-LED-E-U-SLL-7050

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5
1408.7	1407.0	1408.7	1408.7	1411.2	1409.5	1499.3
1415.5	1413.8	1415.5	1417.2	1419.7	1419.7	1518.8
1416.3	1416.3	1414.6	1418.9	1422.2	1425.6	1537.4
1426.5	1426.5	1428.2	1429.0	1436.6	1445.1	1567.9
1468.0	1472.2	1479.8	1482.4	1495.9	1505.3	1645.9
1531.5	1555.2	1570.5	1575.6	1587.4	1605.2	1777.2
1595.9	1635.7	1677.2	1702.6	1717.9	1739.0	1938.1
1644.2	1718.7	1789.9	1853.4	1889.8	1931.3	2163.4
1648.4	1767.0	1887.3	2005.0	2102.4	2179.5	2468.4
1607.7	1763.6	1929.6	2110.1	2277.8	2416.7	2819.1
1556.1	1747.5	1959.3	2189.7	2409.9	2614.9	3077.4
1490.9	1720.4	1964.4	2223.6	2481.9	2728.4	3224.8
1391.7	1639.9	1903.4	2189.7	2489.6	2789.4	3319.7
1264.7	1518.0	1788.2	2114.3	2454.0	2814.0	3399.3
1135.1	1385.0	1675.5	2013.5	2397.2	2809.7	3431.5
997.9	1246.0	1543.4	1905.9	2320.1	2770.8	3425.6
904.7	1130.8	1422.2	1796.6	2234.6	2719.1	3385.8
850.5	1048.7	1326.5	1696.7	2156.7	2657.3	3335.8
849.6	1024.1	1275.7	1625.5	2077.9	2588.7	3268.0
879.3	1039.4	1269.8	1595.0	2034.7	2538.7	3194.3
914.0	1081.7	1301.1	1606.1	2033.8	2516.7	3142.7
969.1	1153.7	1369.7	1653.5	2055.9	2513.3	3079.1
1039.4	1251.1	1493.4	1770.4	2141.4	2580.2	3083.4
1111.4	1365.5	1655.2	1970.3	2310.0	2736.1	3217.2
1137.6	1453.6	1819.5	2204.9	2562.4	2969.8	3493.3
1114.8	1473.9	1919.5	2387.1	2808.1	3243.5	3822.9
1030.0	1391.7	1878.8	2438.7	2949.5	3437.4	4152.4
847.9	1187.6	1694.2	2322.7	2938.5	3477.2	4271.0
621.8	920.8	1377.3	1973.7	2612.4	3228.2	4093.1
449.0	651.4	994.5	1486.6	2065.2	2599.7	3433.2
321.9	451.5	645.5	976.7	1407.0	1810.2	2447.2
231.3	306.6	402.4	586.2	857.2	1111.4	1537.4
170.3	210.1	264.3	364.2	504.9	647.2	925.9
116.0	123.7	159.3	215.2	331.2	476.1	628.5
44.0	50.0	58.4	88.1	148.2	170.3	120.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)