

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: P158879

Luminaire Tested: **VST-E04-LED-E-U-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158879
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-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9817.7 lumens
Efficiency: N/A
Efficacy: 101.0 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



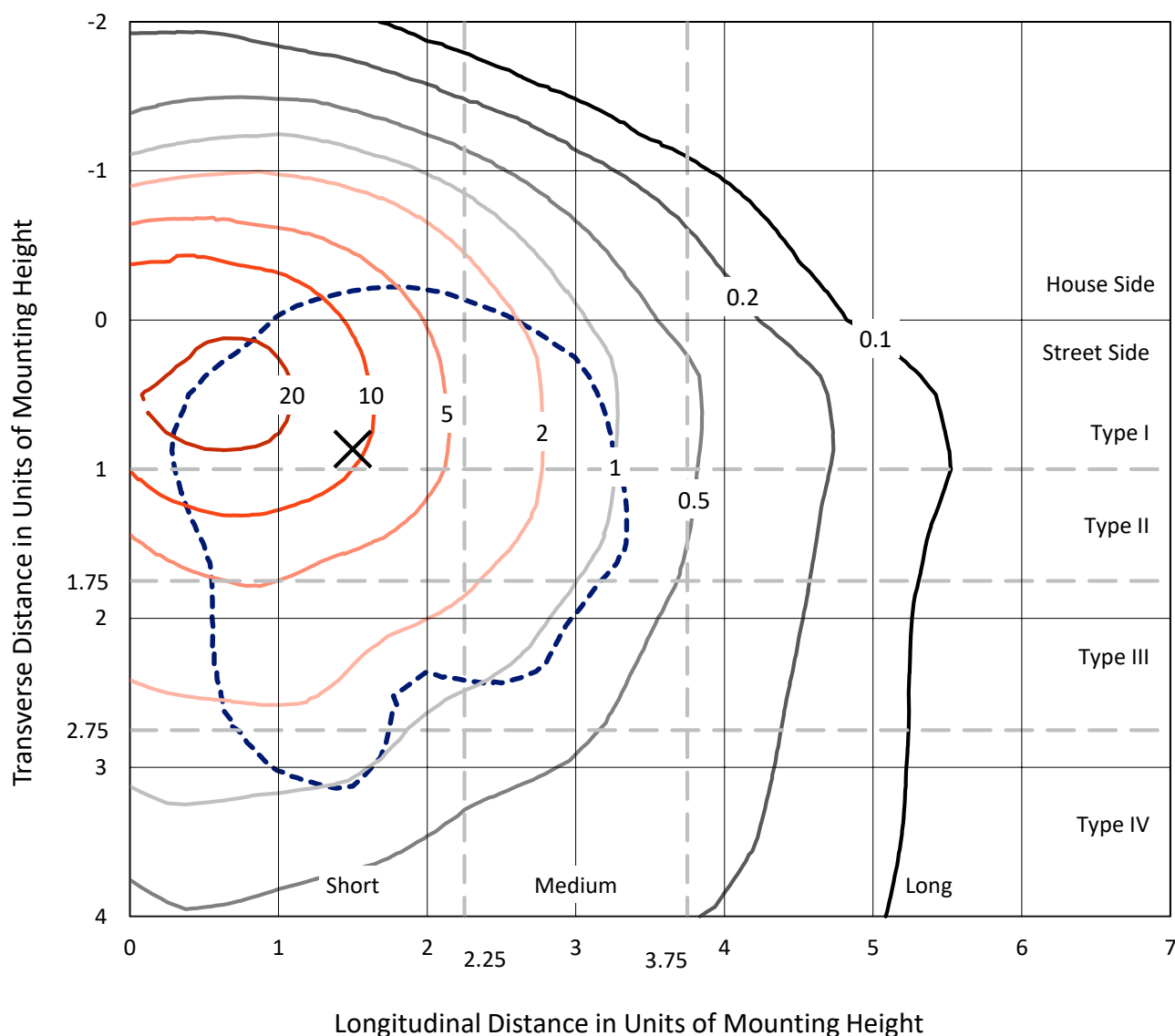
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

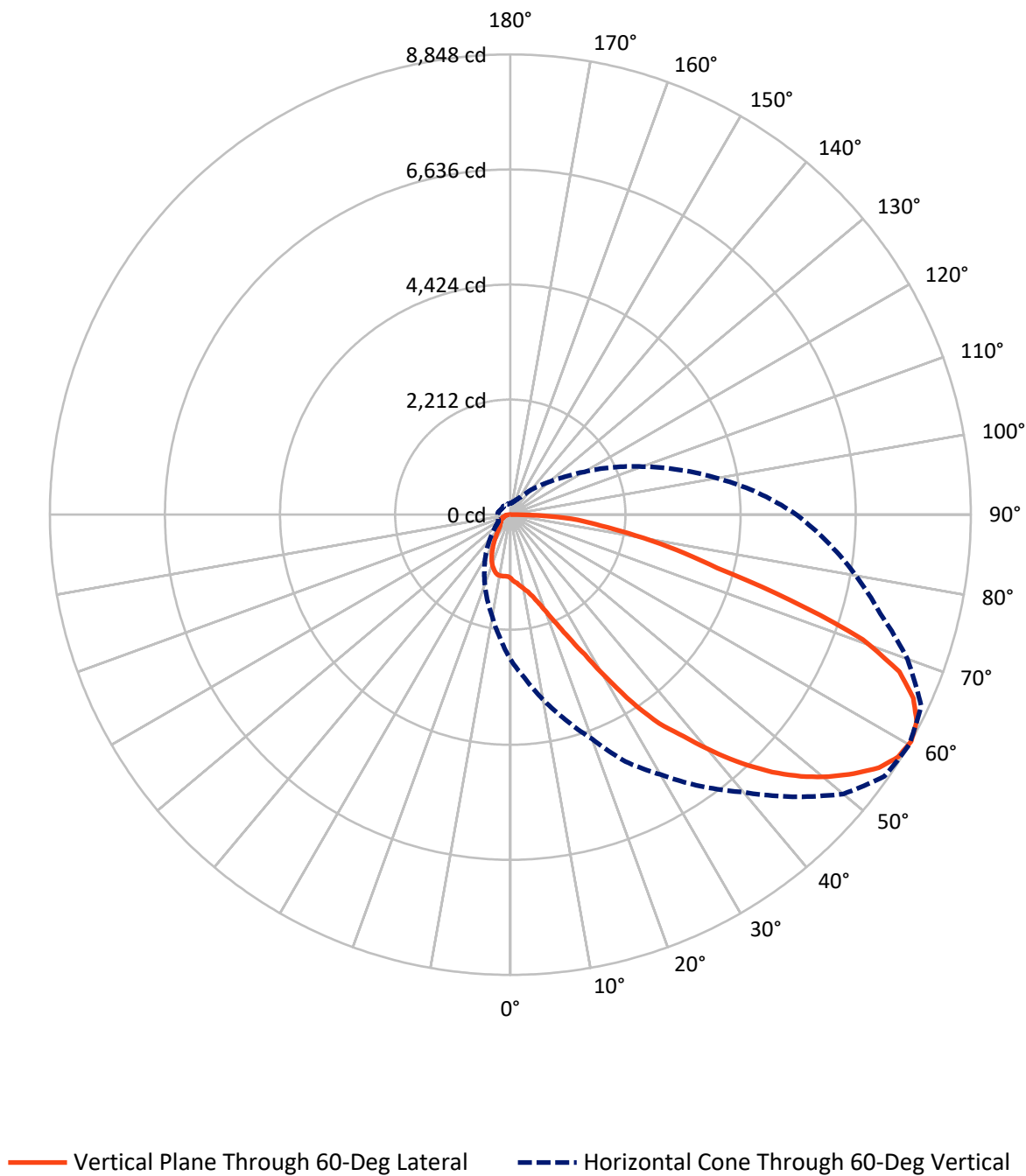


Based on 10 foot mounting height. Maximum calculated value = 28.2 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2210.6	0.0	2210.6
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	7607.1	0.0	7607.1
	% Fixture	77.5	0.0	77.5
Total	Lumens	9817.7	0.0	9817.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	1.2
10°-20°	388.9	4.0
20°-30°	738.0	7.5
30°-40°	1162.3	11.8
40°-50°	1622.2	16.5
50°-60°	2006.3	20.4
60°-70°	2079.7	21.2
70°-80°	1308.6	13.3
80°-90°	391.2	4.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9817.7	100.0
0°-180°	9817.7	100.0

Coefficient of Utilization



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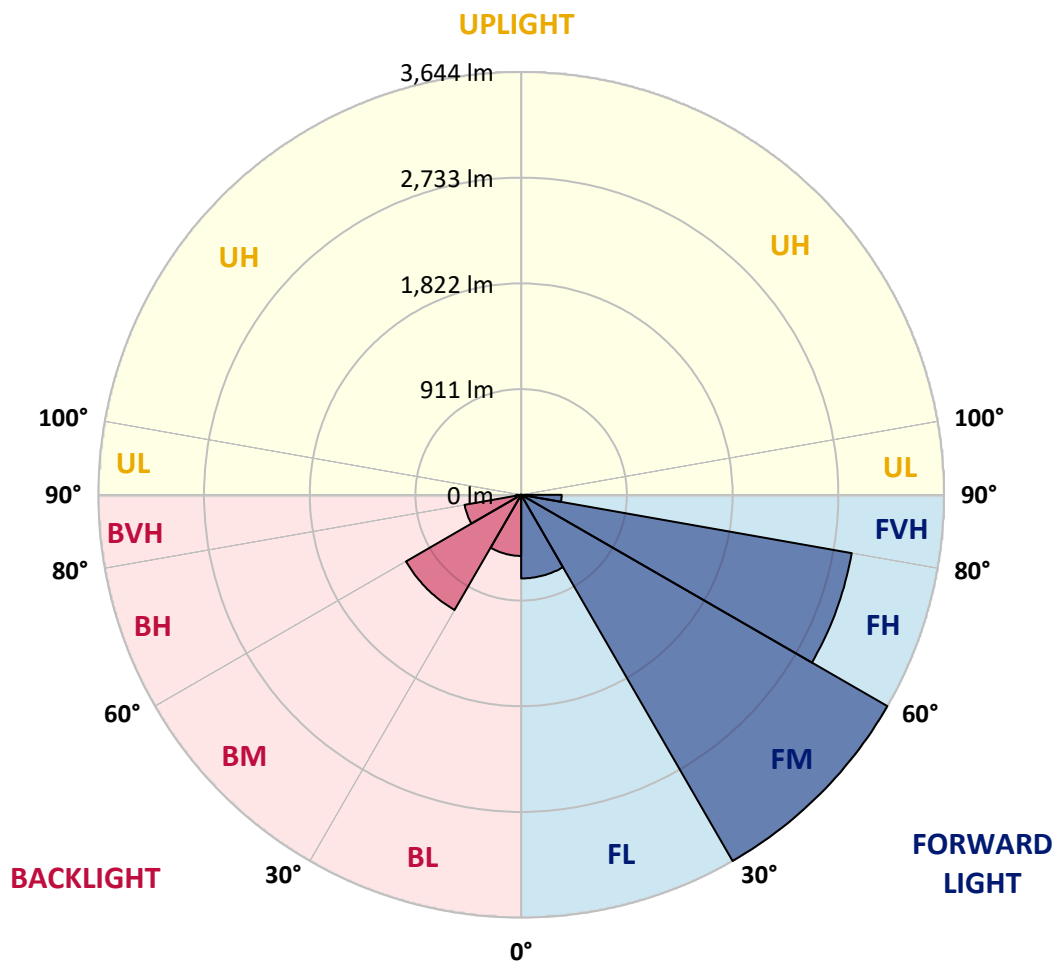
CATALOG NUMBER: VST-E04-LED-E-U-SLL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	720.8	7.3			
FM	(30°-60°)	3644.5	37.1			
FH	(60°-80°)	2893.2	29.5			G2/5000
FVH	(80°-90°)	348.6	3.6			G3/500
BL	(0°-30°)	526.7	5.4	B2/1000		
BM	(30°-60°)	1146.3	11.7	B2/2500		
BH	(60°-80°)	495.1	5.0	B1/500		G1/500
BVH	(80°-90°)	42.6	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°	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0
2.5°	1293.3	1291.8	1291.8	1291.8	1291.1	1289.7	1291.8	1291.1	1287.5	1285.3	1287.5
5°	1310.1	1310.8	1313.0	1313.8	1313.8	1316.0	1321.8	1322.5	1321.8	1323.3	1326.9
7.5°	1326.2	1329.8	1332.0	1335.7	1340.1	1343.7	1354.0	1364.2	1370.8	1375.9	1377.3
10°	1352.5	1358.3	1364.9	1374.4	1384.6	1402.9	1411.7	1421.9	1428.5	1438.7	1440.9
12.5°	1419.7	1427.0	1431.4	1446.0	1459.2	1476.7	1489.1	1492.0	1507.4	1516.2	1526.4
15°	1533.0	1543.9	1559.3	1568.0	1582.7	1598.0	1609.0	1623.6	1625.8	1637.5	1645.5
17.5°	1671.8	1687.1	1718.6	1739.7	1758.7	1774.1	1796.0	1812.8	1816.5	1829.6	1812.8
20°	1866.2	1903.4	1908.5	1950.9	1967.7	1998.4	2042.3	2050.3	2071.5	2050.3	2037.9
22.5°	2129.2	2187.7	2203.7	2244.6	2265.1	2311.9	2325.0	2368.1	2382.7	2366.7	2333.1
25°	2431.7	2522.3	2569.1	2631.9	2642.1	2737.9	2748.1	2798.5	2771.5	2732.7	2733.5
27.5°	2654.6	2808.7	2929.3	3036.7	3112.0	3220.1	3304.1	3327.5	3301.9	3251.5	3234.0
30°	2781.7	2956.3	3129.5	3277.8	3453.2	3618.3	3790.0	3875.5	3890.1	3916.4	3810.5
32.5°	2863.5	3087.9	3293.9	3477.3	3657.1	3869.7	4099.8	4319.8	4504.6	4644.2	4578.4
35°	2932.2	3209.1	3472.9	3695.1	3907.7	4139.3	4371.7	4631.1	4937.2	5116.2	5153.5
37.5°	2960.0	3298.3	3621.3	3906.2	4205.1	4465.9	4696.8	4927.7	5249.2	5568.5	5667.2
40°	2954.9	3342.1	3709.7	4067.7	4433.8	4759.7	5030.0	5303.3	5679.6	6053.0	6213.7
42.5°	2920.5	3348.7	3765.9	4175.1	4592.3	5025.6	5371.2	5686.2	6047.1	6525.7	6752.9
45°	2877.4	3326.1	3777.6	4229.9	4710.0	5211.2	5648.2	6037.6	6460.7	6933.4	7208.2
47.5°	2819.0	3290.3	3763.0	4248.9	4762.6	5330.3	5844.0	6312.3	6777.8	7322.1	7670.7
50°	2755.4	3239.1	3733.0	4235.0	4775.7	5395.3	5955.8	6489.2	7032.8	7620.3	8060.9
52.5°	2710.8	3184.3	3706.0	4206.5	4762.6	5415.1	5996.7	6584.2	7189.2	7796.4	8322.4
55°	2656.0	3111.2	3633.7	4140.0	4714.3	5404.1	5992.3	6617.0	7232.3	7864.3	8464.9
57.5°	2659.7	3077.6	3572.3	4060.4	4615.7	5302.5	5909.7	6584.2	7164.3	7820.5	8470.0
60°	2775.1	3150.0	3604.4	4076.5	4586.5	5238.2	5769.5	6372.3	6964.8	7669.2	8351.7
62.5°	3013.3	3356.7	3769.6	4237.2	4750.9	5366.8	5705.9	6020.1	6546.2	7390.8	8150.0
65°	3297.6	3607.4	3965.4	4410.4	4986.2	5575.8	5670.1	5733.6	5999.6	6849.4	7771.5
67.5°	3581.8	3858.7	4140.0	4509.0	5119.9	5635.7	5523.9	5372.7	5515.9	6220.3	7027.7
70°	3684.1	4051.6	4236.5	4490.0	5018.3	5496.2	5287.9	4907.2	4956.9	5597.0	6187.4
72.5°	3530.6	4054.5	4115.9	4210.2	4566.0	5015.4	4795.5	4305.9	4295.7	4784.5	5261.6
75°	2961.4	3698.7	3698.0	3662.9	3743.3	3999.0	3885.0	3589.8	3714.8	4099.8	4256.9
77.5°	2110.9	2886.2	2922.7	2686.7	2680.9	2796.3	2865.0	3208.4	3661.4	3877.7	3828.0
80°	1326.2	1947.3	2104.4	1812.8	1750.7	1914.4	2338.9	2838.7	3396.2	3590.6	3423.2
82.5°	798.6	1254.6	1589.2	1424.1	1409.5	1707.6	2176.7	2371.1	2538.4	2745.2	2465.3
85°	542.2	835.9	1087.3	1120.1	1248.0	1556.3	1760.2	1674.0	1678.4	1624.3	1479.6
87.5°	103.8	228.0	372.6	454.5	504.2	677.3	736.5	667.1	704.4	515.1	563.4
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-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0
2.5°	1283.8	1283.8	1283.8	1280.2	1280.9	1275.8	1273.6	1273.6	1271.4	1271.4	1270.7
5°	1324.0	1319.6	1321.8	1321.1	1321.1	1313.8	1310.1	1310.1	1300.6	1301.3	1298.4
7.5°	1383.9	1383.2	1385.4	1381.0	1375.1	1369.3	1363.4	1360.5	1347.4	1339.3	1334.2
10°	1451.9	1451.1	1453.3	1452.6	1442.4	1431.4	1415.3	1403.6	1387.6	1375.1	1362.7
12.5°	1526.4	1525.7	1524.2	1517.6	1506.7	1489.1	1468.7	1448.9	1424.8	1408.8	1390.5
15°	1642.6	1640.4	1631.6	1622.1	1610.4	1583.4	1547.6	1519.1	1486.9	1459.2	1429.2
17.5°	1814.3	1796.0	1794.6	1773.4	1741.9	1706.1	1672.5	1625.0	1579.0	1537.4	1496.4
20°	2051.0	2008.6	1996.9	1972.8	1931.2	1893.9	1820.9	1757.3	1694.4	1637.5	1585.6
22.5°	2308.9	2278.3	2249.8	2210.3	2153.3	2099.2	2006.4	1926.8	1846.4	1773.4	1715.6
25°	2669.2	2615.8	2564.7	2501.8	2422.9	2358.6	2252.7	2172.3	2067.1	2000.6	1917.3
27.5°	3134.6	3043.3	2957.1	2903.0	2764.2	2670.6	2535.5	2431.7	2304.6	2214.7	2116.1
30°	3740.4	3634.4	3506.5	3319.5	3154.3	2968.8	2801.4	2668.4	2533.3	2407.6	2293.6
32.5°	4491.5	4304.4	4102.0	3805.4	3534.3	3269.8	3046.9	2883.3	2745.2	2588.8	2428.1
35°	5126.5	4933.6	4646.4	4269.4	3934.7	3632.2	3365.5	3141.9	2961.4	2763.4	2550.8
37.5°	5627.7	5407.8	5138.1	4737.7	4384.1	4039.9	3760.1	3475.1	3238.4	2965.8	2696.9
40°	6202.0	5981.3	5684.7	5269.7	4851.0	4477.6	4149.5	3855.1	3564.3	3231.8	2886.2
42.5°	6702.5	6543.2	6242.9	5814.0	5350.0	4934.3	4575.5	4238.7	3858.7	3486.8	3077.6
45°	7224.2	7062.0	6777.1	6328.4	5835.2	5372.0	4943.1	4580.6	4132.0	3689.2	3220.8
47.5°	7685.3	7518.7	7230.8	6785.1	6261.2	5773.1	5301.1	4862.7	4341.7	3833.1	3314.4
50°	8125.2	7921.3	7657.5	7213.3	6653.6	6131.9	5619.7	5057.0	4504.6	3934.0	3377.9
52.5°	8529.2	8269.8	8019.9	7562.5	6957.5	6412.5	5841.1	5222.2	4604.7	4013.6	3421.0
55°	8758.7	8591.3	8292.5	7843.1	7173.8	6605.3	5981.3	5338.4	4704.1	4069.9	3439.3
57.5°	8829.5	8788.6	8538.0	8005.3	7301.0	6711.3	6076.3	5430.4	4770.6	4086.0	3413.7
60°	8773.3	8847.8	8710.4	8119.3	7358.7	6742.7	6123.1	5496.2	4782.3	4034.8	3336.3
62.5°	8592.8	8762.3	8744.8	8157.3	7328.7	6703.3	6118.0	5462.6	4672.7	3875.5	3162.4
65°	8296.1	8509.5	8584.8	8016.3	7159.9	6559.3	5987.9	5251.4	4368.0	3564.3	2870.8
67.5°	7737.9	8060.9	8133.9	7554.5	6718.6	6161.1	5613.1	4813.0	3803.9	3082.7	2415.6
70°	6619.2	7184.0	7282.7	6674.8	5940.4	5450.9	4986.2	4118.1	3167.5	2472.6	1853.7
72.5°	5284.3	5639.4	5841.1	5422.4	4875.8	4520.7	4168.5	3159.5	2390.1	1824.5	1275.8
75°	4131.3	4110.1	4290.6	4012.2	3690.7	3524.8	3260.3	2204.5	1600.9	1208.5	807.4
77.5°	3532.1	3260.3	3055.0	2859.2	2668.4	2615.8	2362.3	1367.8	989.3	724.1	483.0
80°	2935.9	2439.7	2064.9	1789.4	1721.5	1825.2	1546.1	806.7	586.0	415.8	303.2
82.5°	2097.8	1755.1	1428.5	1253.8	1137.7	1302.8	911.9	447.9	317.8	249.2	200.9
85°	1359.8	1299.9	1286.0	1229.0	1088.0	1027.3	692.7	385.8	238.2	154.9	124.9
87.5°	523.2	670.8	773.8	829.3	896.5	798.6	361.0	133.0	130.8	80.4	60.6
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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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0
2.5°	1265.5	1262.6	1261.9	1259.7	1258.2	1258.2	1254.6	1188.1	1187.4	1187.4	1186.6
5°	1292.6	1288.9	1285.3	1284.5	1281.6	1281.6	1278.0	1211.5	1211.5	1211.5	1210.0
7.5°	1329.1	1321.8	1317.4	1315.2	1310.8	1313.0	1316.0	1248.7	1249.5	1248.7	1250.2
10°	1355.4	1351.0	1345.9	1344.5	1341.5	1343.7	1348.1	1281.6	1283.8	1284.5	1286.0
12.5°	1381.0	1373.7	1367.1	1364.9	1363.4	1369.3	1374.4	1310.1	1312.3	1314.5	1314.5
15°	1412.4	1400.0	1391.2	1386.1	1383.2	1389.0	1396.3	1332.8	1333.5	1335.7	1335.0
17.5°	1465.7	1447.5	1427.0	1423.4	1413.9	1416.1	1417.5	1346.6	1343.7	1338.6	1329.8
20°	1548.3	1520.5	1492.8	1481.1	1462.1	1454.1	1438.0	1347.4	1329.1	1313.8	1300.6
22.5°	1666.7	1625.8	1595.8	1576.1	1537.4	1510.3	1466.5	1343.7	1309.4	1283.1	1262.6
25°	1858.1	1809.2	1763.1	1713.4	1652.8	1598.7	1534.4	1375.9	1322.5	1277.2	1237.8
27.5°	2044.4	1967.0	1896.1	1821.6	1736.1	1655.0	1564.4	1386.1	1325.5	1267.0	1202.7
30°	2184.0	2071.5	1964.1	1855.2	1743.4	1638.2	1535.9	1351.0	1278.7	1212.9	1145.0
32.5°	2268.8	2122.6	1983.1	1847.9	1716.4	1598.0	1483.3	1290.4	1210.7	1133.3	1060.9
35°	2349.1	2167.9	1994.8	1835.5	1684.9	1553.4	1429.9	1219.5	1124.5	1042.0	950.6
37.5°	2448.5	2215.4	2002.1	1812.8	1638.9	1488.4	1352.5	1130.4	1035.4	933.8	847.6
40°	2567.6	2264.4	1994.8	1767.5	1567.3	1402.9	1259.0	1036.8	930.9	832.2	747.5
42.5°	2680.9	2307.5	1975.8	1706.9	1489.1	1313.8	1173.5	953.5	847.6	746.8	662.7
45°	2764.9	2344.0	1966.3	1664.5	1429.2	1253.1	1098.2	886.3	774.5	673.0	587.5
47.5°	2823.3	2365.9	1961.9	1641.1	1387.6	1190.3	1029.5	819.1	701.5	599.2	515.9
50°	2854.0	2365.2	1950.9	1615.5	1326.2	1115.0	958.7	751.1	634.2	534.1	458.1
52.5°	2862.1	2352.1	1927.5	1568.8	1251.7	1039.8	882.7	680.3	575.0	479.3	402.6
55°	2843.8	2319.9	1878.6	1490.6	1172.0	960.1	813.2	624.7	517.3	426.7	366.8
57.5°	2791.9	2262.9	1786.5	1383.2	1088.0	886.3	733.6	557.5	454.5	378.5	328.8
60°	2695.5	2142.4	1642.6	1256.0	981.3	773.8	624.0	469.8	388.0	331.0	290.8
62.5°	2517.2	1953.1	1440.2	1080.7	827.9	627.7	498.3	374.8	313.5	276.2	251.4
65°	2230.0	1668.1	1205.6	851.2	629.1	456.7	370.5	282.0	237.5	214.8	207.5
67.5°	1820.1	1288.2	876.8	591.1	426.0	320.0	257.9	206.1	184.9	176.1	173.2
70°	1323.3	877.5	567.7	373.4	281.3	223.6	195.1	165.9	154.2	152.0	152.0
72.5°	830.8	533.4	347.8	255.7	213.4	181.2	166.6	146.1	141.8	140.3	138.1
75°	487.4	323.7	246.2	209.7	182.7	162.2	149.8	133.0	130.1	129.3	127.1
77.5°	310.5	233.1	198.7	179.0	165.1	146.9	135.9	118.4	117.6	116.9	116.2
80°	222.9	193.6	173.9	158.6	144.7	127.9	121.3	107.4	105.9	105.2	106.7
82.5°	168.8	160.0	152.0	140.3	121.3	108.9	103.8	94.3	95.0	91.3	90.6
85°	116.2	114.7	114.0	108.9	95.0	84.0	80.4	75.3	78.9	75.3	70.9
87.5°	57.0	56.3	51.9	61.4	57.0	45.3	40.9	45.3	50.4	49.0	45.3
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: P158879

CATALOG NUMBER: VST-E04-LED-E-U-SLL-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0
2.5°	1183.7	1180.8	1183.0	1181.5	1181.5	1180.8	1182.2	1180.0	1178.6	1180.0	1180.8
5°	1207.1	1203.4	1204.2	1199.0	1201.2	1196.1	1197.6	1193.9	1190.3	1188.8	1188.8
7.5°	1246.5	1242.9	1238.5	1237.8	1229.7	1226.8	1221.7	1218.8	1216.6	1211.5	1208.5
10°	1282.3	1276.5	1271.4	1270.7	1262.6	1255.3	1248.7	1242.9	1239.2	1231.9	1228.3
12.5°	1311.6	1305.7	1297.7	1293.3	1285.3	1276.5	1272.1	1263.3	1258.2	1250.2	1243.6
15°	1328.4	1318.1	1306.5	1298.4	1286.7	1277.2	1270.7	1264.1	1259.0	1248.7	1239.2
17.5°	1320.3	1303.5	1287.5	1272.8	1256.8	1248.0	1238.5	1230.5	1229.0	1217.3	1202.7
20°	1286.7	1267.0	1245.8	1226.1	1204.9	1192.5	1180.8	1168.4	1164.7	1150.8	1131.8
22.5°	1245.8	1223.2	1199.0	1174.9	1147.9	1130.4	1112.8	1097.5	1085.1	1064.6	1037.6
25°	1204.2	1170.5	1135.5	1104.8	1073.4	1051.4	1033.2	1016.4	1001.8	968.9	941.1
27.5°	1149.4	1096.8	1060.9	1025.9	987.9	959.4	938.9	915.5	899.5	861.5	832.2
30°	1079.2	1026.6	975.5	940.4	902.4	871.7	845.4	811.8	788.4	760.6	733.6
32.5°	990.8	938.2	886.3	846.9	815.4	777.4	744.6	712.4	685.4	658.3	637.2
35°	883.4	832.2	783.3	743.8	708.8	678.8	647.4	619.6	588.9	559.7	547.3
37.5°	770.1	715.3	661.3	626.9	599.2	578.0	548.7	526.1	498.3	480.8	466.2
40°	671.5	613.0	561.9	532.7	510.7	486.6	462.5	445.0	425.3	407.7	396.8
42.5°	588.2	533.4	489.6	464.7	438.4	412.1	393.8	379.2	366.8	353.6	340.5
45°	511.5	458.9	422.3	391.6	369.7	348.5	336.1	329.5	322.2	314.2	305.4
47.5°	447.2	401.9	366.1	337.6	314.9	300.3	294.5	292.3	289.3	282.8	278.4
50°	398.2	361.0	324.4	298.8	279.9	272.5	266.0	263.8	260.1	257.9	255.0
52.5°	357.3	317.8	287.2	263.8	252.1	249.2	246.2	243.3	242.6	241.1	239.7
55°	323.7	289.3	260.9	243.3	237.5	235.3	234.5	231.6	230.9	230.9	228.7
57.5°	293.7	264.5	238.9	228.0	224.3	222.1	220.7	219.2	219.2	220.7	219.9
60°	263.0	238.2	222.9	217.0	214.8	211.2	207.5	206.1	206.8	210.4	210.4
62.5°	233.1	214.8	205.3	203.1	200.9	198.0	193.6	192.2	193.6	198.0	200.2
65°	200.2	192.2	189.2	187.8	186.3	184.1	181.2	179.7	180.5	182.7	185.6
67.5°	170.2	169.5	169.5	170.2	169.5	168.8	167.3	165.1	164.4	164.4	165.9
70°	152.0	152.0	154.2	154.2	153.4	153.4	151.3	149.1	147.6	146.1	146.9
72.5°	138.1	138.1	138.8	139.6	138.8	138.8	135.9	134.4	130.8	130.1	128.6
75°	126.4	124.9	124.9	124.2	123.5	124.2	121.3	117.6	116.2	115.4	114.0
77.5°	114.7	111.8	110.3	108.9	109.6	108.9	106.7	104.5	102.3	101.6	100.8
80°	101.6	97.2	95.0	91.3	93.5	94.3	92.8	90.6	89.9	89.1	88.4
82.5°	84.0	79.6	76.7	74.5	73.1	74.5	76.7	81.8	80.4	79.6	78.2
85°	65.8	58.5	54.8	55.5	51.9	52.6	59.2	62.1	62.1	63.6	62.1
87.5°	37.3	35.8	27.0	24.8	26.3	31.4	35.1	38.7	38.7	36.5	40.9
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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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0
2.5°	1180.8	1182.2	1183.0	1185.9	1187.4	1188.1	1188.8	1190.3	1191.0	1190.3	1193.9
5°	1186.6	1186.6	1185.2	1187.4	1188.1	1188.1	1186.6	1188.1	1188.1	1188.1	1191.7
7.5°	1202.0	1197.6	1195.4	1192.5	1190.3	1187.4	1183.7	1183.7	1183.0	1183.7	1185.9
10°	1218.0	1211.5	1203.4	1196.1	1189.5	1184.4	1177.9	1175.7	1174.9	1174.2	1180.0
12.5°	1230.5	1218.8	1206.4	1193.9	1180.8	1172.0	1161.1	1154.5	1153.7	1153.7	1161.1
15°	1221.7	1202.7	1178.6	1156.7	1145.0	1132.6	1120.1	1112.1	1111.4	1112.8	1117.2
17.5°	1177.9	1147.2	1126.0	1104.8	1089.4	1079.2	1071.2	1069.7	1072.6	1069.7	1075.6
20°	1103.3	1070.4	1055.8	1039.0	1033.2	1025.9	1014.2	1004.0	1004.0	990.8	994.5
22.5°	1006.9	988.6	969.6	956.5	952.1	939.7	927.2	913.4	911.9	895.8	893.6
25°	906.0	887.8	872.4	869.5	856.4	839.6	827.9	811.8	808.1	792.1	789.9
27.5°	803.0	788.4	773.1	764.3	757.0	738.7	728.5	709.5	702.2	684.6	682.5
30°	705.1	694.9	676.6	669.3	655.4	634.2	612.3	600.6	594.8	576.5	570.7
32.5°	613.0	597.0	583.1	574.3	556.8	532.7	512.9	496.1	485.2	463.3	457.4
35°	525.4	509.3	502.7	480.1	464.7	448.6	421.6	411.4	391.6	374.8	369.0
37.5°	447.9	432.6	423.8	404.8	389.5	373.4	357.3	344.2	334.7	331.0	331.0
40°	381.4	373.4	362.4	348.5	338.3	326.6	317.8	313.5	312.7	314.2	317.8
42.5°	333.9	325.2	317.8	310.5	303.2	301.8	299.6	302.5	306.2	309.8	313.5
45°	298.1	290.8	286.4	283.5	282.8	285.0	289.3	293.7	300.3	304.7	307.6
47.5°	272.5	266.7	265.2	264.5	268.2	274.7	280.6	287.2	292.3	296.7	299.6
50°	250.6	245.5	244.8	244.0	249.2	255.0	260.1	268.9	272.5	275.5	277.7
52.5°	235.3	230.9	228.7	229.4	234.5	239.7	247.0	253.5	258.7	260.9	263.0
55°	222.9	221.4	216.3	218.5	223.6	230.2	237.5	244.8	249.9	253.5	257.2
57.5°	213.4	209.7	206.1	209.7	214.8	221.4	230.2	236.7	243.3	248.4	252.1
60°	203.1	200.2	197.3	200.9	206.1	212.6	219.2	228.0	236.0	241.1	244.8
62.5°	194.4	192.2	189.2	190.0	192.2	196.6	200.2	208.2	215.6	222.1	226.5
65°	181.9	181.2	176.8	177.6	179.0	183.4	186.3	193.6	200.9	206.8	210.4
67.5°	163.7	162.2	162.2	164.4	165.1	167.3	169.5	176.8	182.7	187.1	191.4
70°	145.4	144.7	144.7	146.1	145.4	147.6	150.5	157.1	164.4	168.8	173.2
72.5°	127.9	127.9	127.1	128.6	128.6	129.3	133.0	138.8	145.4	149.1	152.0
75°	112.5	111.8	111.8	111.8	112.5	112.5	116.2	121.3	127.9	130.1	134.4
77.5°	98.6	98.6	98.6	98.6	99.4	98.6	100.8	104.5	106.7	110.3	110.3
80°	87.0	86.2	87.0	87.7	87.7	87.0	87.0	87.7	88.4	88.4	88.4
82.5°	76.7	74.5	76.0	79.6	79.6	79.6	78.9	73.8	70.1	70.1	71.6
85°	61.4	61.4	62.1	67.2	68.0	65.0	68.0	60.6	53.3	51.1	52.6
87.5°	38.0	30.0	36.5	41.6	41.6	39.5	43.8	40.9	34.3	27.8	26.3
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°	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	0°
2.5°	1196.9	1197.6	1202.0	1204.2	1204.2	1207.1	1208.5	1212.9	1212.2	1212.2	1213.7	2.5°
5°	1195.4	1197.6	1202.0	1204.9	1206.4	1210.0	1212.9	1218.0	1217.3	1218.8	1219.5	5°
7.5°	1190.3	1196.1	1200.5	1206.4	1211.5	1214.4	1218.0	1222.4	1221.0	1221.7	1221.0	7.5°
10°	1185.9	1191.7	1200.5	1208.5	1215.9	1220.2	1222.4	1227.5	1226.8	1228.3	1228.3	10°
12.5°	1168.4	1178.6	1189.5	1202.0	1212.9	1224.6	1231.9	1242.9	1248.0	1254.6	1261.9	12.5°
15°	1123.8	1135.5	1153.0	1166.9	1188.1	1204.2	1225.4	1246.5	1265.5	1283.8	1305.0	15°
17.5°	1079.9	1085.1	1098.9	1117.9	1136.9	1161.1	1186.6	1224.6	1259.0	1296.2	1337.1	17.5°
20°	998.8	1007.6	1017.1	1039.8	1062.4	1096.8	1128.2	1177.9	1228.3	1286.7	1349.6	20°
22.5°	898.7	907.5	917.7	943.3	971.1	1006.1	1044.1	1099.7	1166.9	1242.9	1326.9	22.5°
25°	790.6	795.7	803.7	829.3	846.1	892.2	938.2	995.9	1069.0	1166.9	1264.8	25°
27.5°	671.5	681.0	687.6	699.3	738.0	777.4	825.7	887.8	976.2	1076.3	1194.7	27.5°
30°	557.5	565.5	561.9	586.7	612.3	654.0	705.8	774.5	859.3	978.4	1115.0	30°
32.5°	445.7	451.6	449.4	466.9	492.5	534.1	583.1	657.6	747.5	874.6	1023.0	32.5°
35°	367.5	369.0	377.0	385.1	407.0	440.6	482.2	547.3	639.3	756.3	913.4	35°
37.5°	331.0	333.9	339.0	350.0	366.1	390.2	424.5	474.9	553.9	656.9	797.2	37.5°
40°	320.0	322.2	325.2	332.5	347.8	369.0	399.7	442.1	499.8	586.7	700.7	40°
42.5°	314.9	314.9	314.9	319.3	331.0	353.6	388.7	430.4	480.8	546.5	638.6	42.5°
45°	307.6	307.6	306.9	309.1	317.1	339.8	377.8	424.5	478.6	541.4	621.1	45°
47.5°	299.6	298.8	296.7	296.7	301.8	324.4	363.9	414.3	473.5	545.8	631.3	47.5°
50°	277.7	277.7	277.7	279.9	284.2	304.7	347.1	400.4	468.4	548.7	647.4	50°
52.5°	265.2	266.0	268.2	268.2	272.5	293.7	338.3	397.5	471.3	559.7	667.8	52.5°
55°	259.4	261.6	263.8	263.8	267.4	289.3	335.4	399.7	482.2	582.4	702.9	55°
57.5°	254.3	256.5	257.9	257.9	260.9	279.9	327.3	396.0	488.8	604.3	746.0	57.5°
60°	244.8	246.2	247.0	247.0	247.7	263.8	309.1	378.5	474.2	602.8	769.4	60°
62.5°	227.2	230.2	230.9	231.6	231.6	247.0	285.7	350.0	442.8	580.9	762.8	62.5°
65°	214.1	215.6	217.7	219.2	222.1	232.4	263.0	315.7	401.9	537.0	726.3	65°
67.5°	193.6	195.8	198.0	200.9	203.9	210.4	234.5	276.9	346.3	462.5	644.5	67.5°
70°	175.4	176.1	178.3	181.9	182.7	186.3	203.9	233.1	283.5	371.2	518.8	70°
72.5°	152.7	154.2	157.1	161.5	161.5	164.4	174.6	190.0	222.1	283.5	382.9	72.5°
75°	133.0	134.4	136.6	136.6	133.0	133.7	141.0	152.0	176.1	213.4	279.1	75°
77.5°	110.3	113.3	115.4	111.1	109.6	111.8	115.4	123.5	141.0	169.5	209.7	77.5°
80°	91.3	92.8	93.5	94.3	92.8	95.0	97.9	103.0	114.7	136.6	165.9	80°
82.5°	73.1	74.5	76.7	79.6	79.6	87.7	88.4	88.4	95.0	108.9	130.1	82.5°
85°	54.1	57.0	59.9	63.6	64.3	68.7	66.5	65.8	68.0	81.1	89.9	85°
87.5°	27.8	30.0	31.4	34.3	30.7	32.1	32.1	30.0	26.3	32.9	36.5	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°
1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0
1215.1	1213.7	1215.1	1215.1	1217.3	1215.9	1293.3
1221.0	1219.5	1221.0	1222.4	1224.6	1224.6	1310.1
1221.7	1221.7	1220.2	1223.9	1226.8	1229.7	1326.2
1230.5	1230.5	1231.9	1232.7	1239.2	1246.5	1352.5
1266.3	1269.9	1276.5	1278.7	1290.4	1298.4	1419.7
1321.1	1341.5	1354.7	1359.1	1369.3	1384.6	1533.0
1376.6	1410.9	1446.7	1468.7	1481.8	1500.1	1671.8
1418.3	1482.6	1543.9	1598.7	1630.1	1666.0	1866.2
1421.9	1524.2	1628.0	1729.5	1813.5	1880.0	2129.2
1386.8	1521.3	1664.5	1820.1	1964.8	2084.6	2431.7
1342.3	1507.4	1690.1	1888.8	2078.8	2255.6	2654.6
1286.0	1484.0	1694.4	1918.0	2140.9	2353.5	2781.7
1200.5	1414.6	1641.8	1888.8	2147.5	2406.1	2863.5
1090.9	1309.4	1542.5	1823.8	2116.8	2427.3	2932.2
979.1	1194.7	1445.3	1736.8	2067.8	2423.7	2960.0
860.7	1074.8	1331.3	1644.0	2001.3	2390.1	2954.9
780.4	975.5	1226.8	1549.8	1927.5	2345.5	2920.5
733.6	904.6	1144.2	1463.6	1860.3	2292.1	2877.4
732.9	883.4	1100.4	1402.2	1792.4	2233.0	2819.0
758.4	896.5	1095.3	1375.9	1755.1	2189.8	2755.4
788.4	933.1	1122.3	1385.4	1754.4	2170.9	2710.8
835.9	995.2	1181.5	1426.3	1773.4	2167.9	2656.0
896.5	1079.2	1288.2	1527.1	1847.2	2225.7	2659.7
958.7	1177.9	1427.7	1699.6	1992.6	2360.1	2775.1
981.3	1253.8	1569.5	1902.0	2210.3	2561.8	3013.3
961.6	1271.4	1655.7	2059.1	2422.2	2797.8	3297.6
888.5	1200.5	1620.6	2103.6	2544.2	2965.1	3581.8
731.4	1024.4	1461.4	2003.5	2534.7	2999.4	3684.1
536.3	794.2	1188.1	1702.5	2253.4	2784.6	3530.6
387.3	561.9	857.8	1282.3	1781.4	2242.5	2961.4
277.7	389.5	556.8	842.5	1213.7	1561.5	2110.9
199.5	264.5	347.1	505.6	739.4	958.7	1326.2
146.9	181.2	228.0	314.2	435.5	558.2	798.6
100.1	106.7	137.4	185.6	285.7	410.6	542.2
38.0	43.1	50.4	76.0	127.9	146.9	103.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)