

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: McGRAW-EDISON

Report Number: P158760

Luminaire Tested: **VTS-E03-LED-E1-SLL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158760  
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: MCGRAW-EDISON  
Catalog Number: VTS-E03-LED-E1-SLL  
Description: VENTUS LED SITE LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (63) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

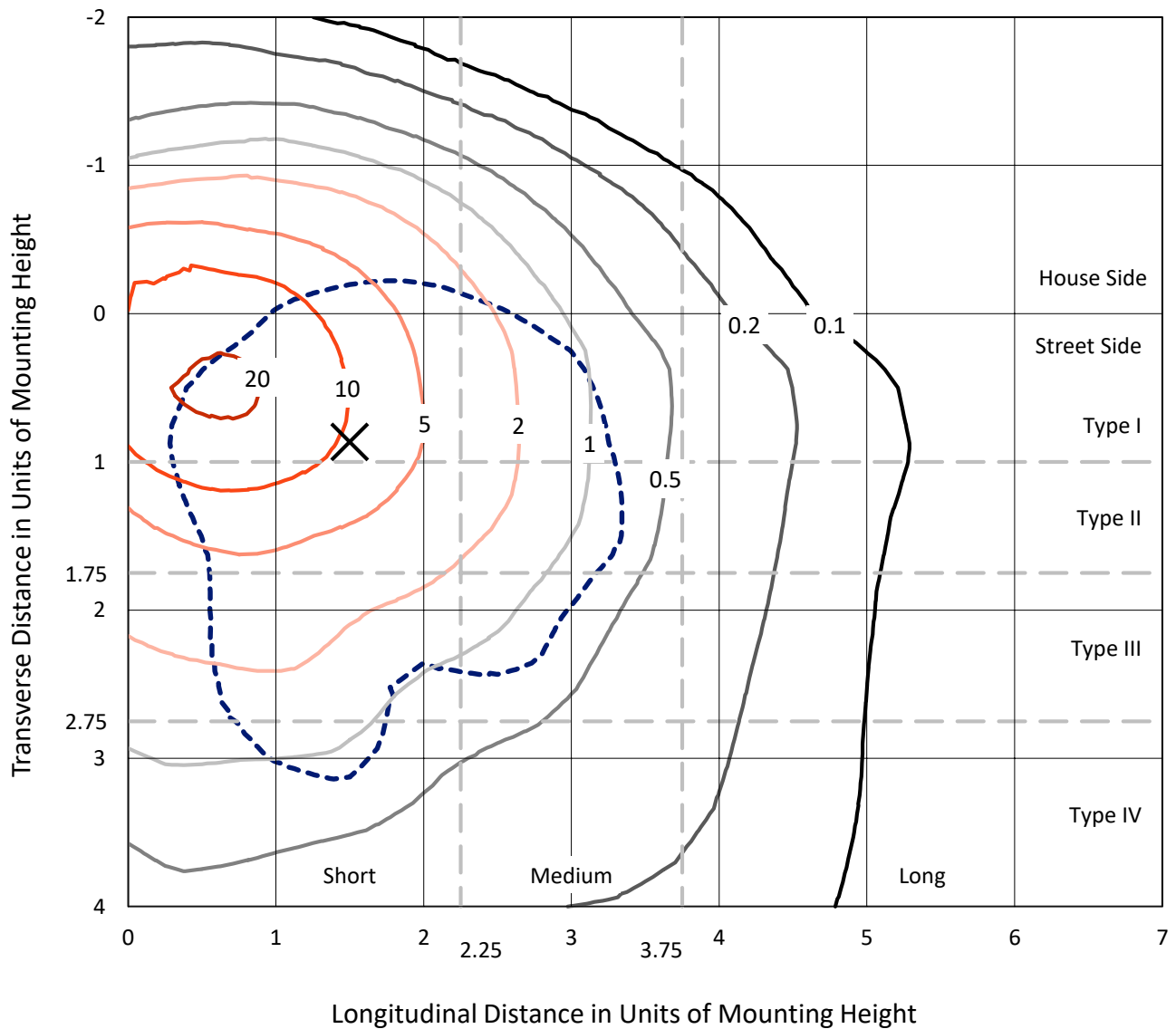
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8061.8 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 FT

REPORT NUMBER: P158760  
 CATALOG NUMBER: VTS-E03-LED-E1-SLL

### Iso-Footcandle Lines of Horizontal Illumination

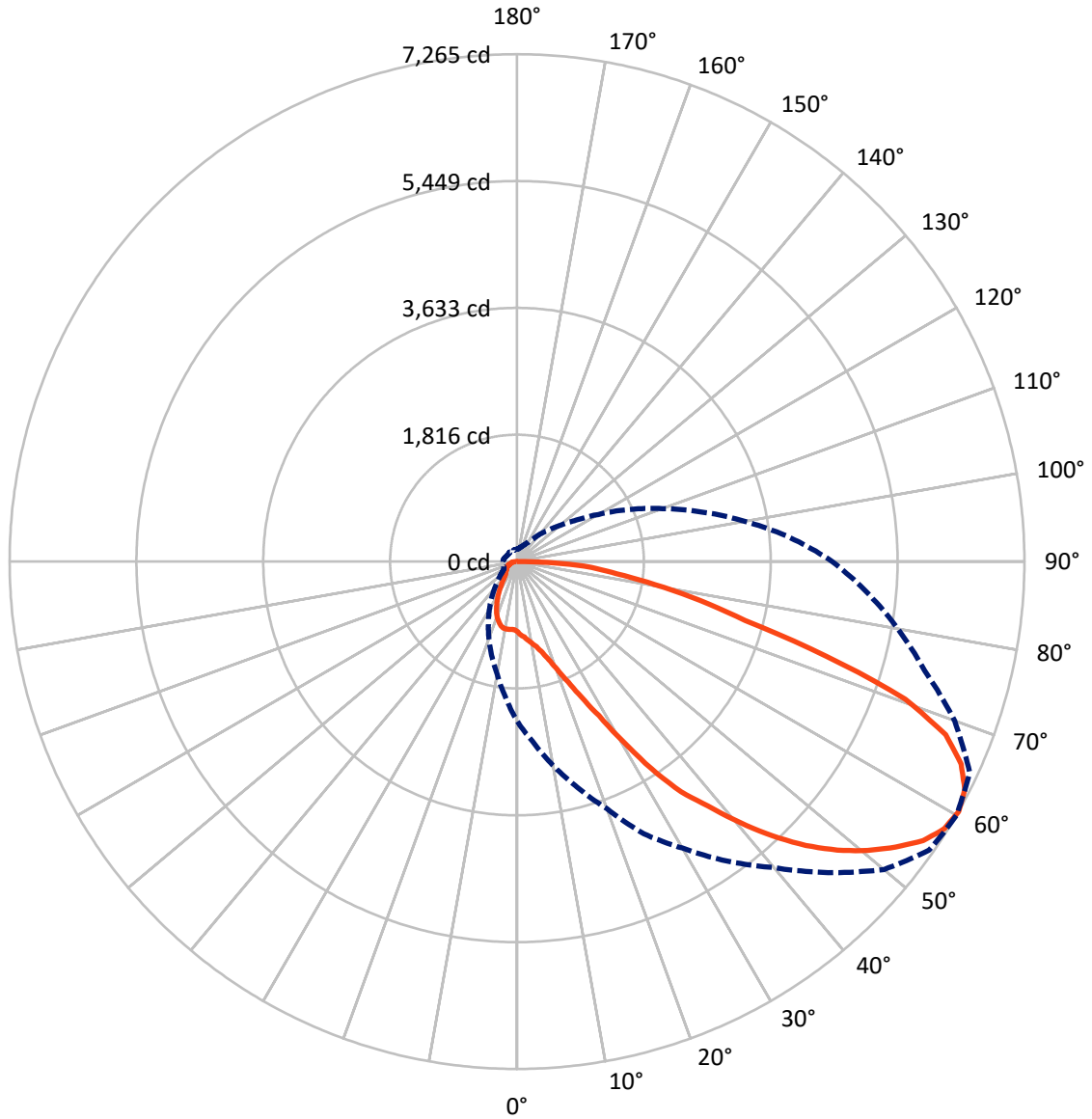
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.1 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P158760  
CATALOG NUMBER: VTS-E03-LED-E1-SLL

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P158760

CATALOG NUMBER: VTS-E03-LED-E1-SLL

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1815.3	0.0	1815.3
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	6246.6	0.0	6246.6
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	8061.8	0.0	8061.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.9	1.2
10°-20°	319.4	4.0
20°-30°	606.0	7.5
30°-40°	954.4	11.8
40°-50°	1332.1	16.5
50°-60°	1647.5	20.4
60°-70°	1707.7	21.2
70°-80°	1074.6	13.3
80°-90°	321.2	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°	8061.8	100.0
0°-180°	8061.8	100.0



REPORT NUMBER: P158760

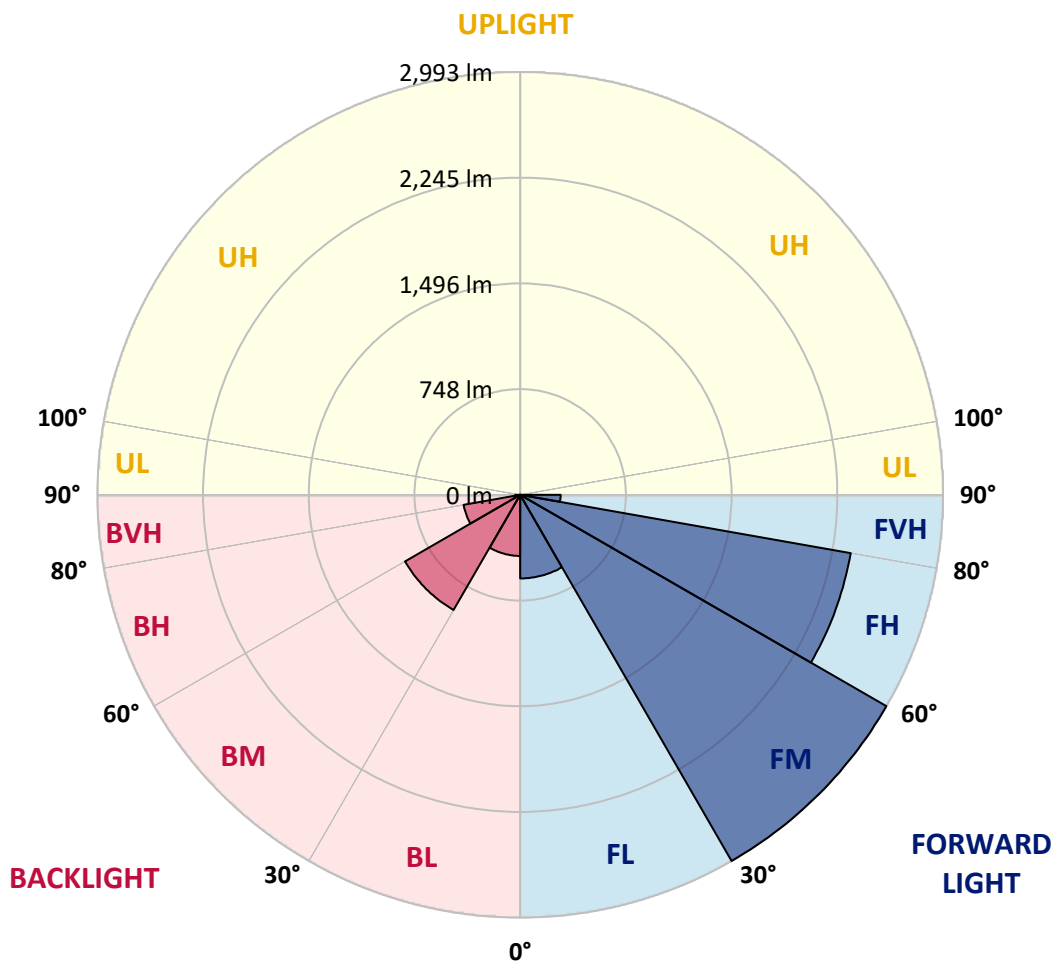
CATALOG NUMBER: VTS-E03-LED-E1-SLL

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	591.9	7.3			
FM	(30°-60°)	2992.7	37.1			
FH	(60°-80°)	2375.8	29.5			G2/5000
FVH	(80°-90°)	286.3	3.6			G3/500
BL	(0°-30°)	432.5	5.4	B1/500		
BM	(30°-60°)	941.3	11.7	B1/1000		
BH	(60°-80°)	406.5	5.0	B1/500		G1/500
BVH	(80°-90°)	34.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





REPORT NUMBER: P158760

CATALOG NUMBER: VTS-E03-LED-E1-SLL

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6
2.5°	1062.0	1060.8	1060.8	1060.8	1060.2	1059.0	1060.8	1060.2	1057.2	1055.4	1057.2
5°	1075.8	1076.4	1078.2	1078.8	1078.8	1080.6	1085.4	1086.0	1085.4	1086.6	1089.6
7.5°	1089.0	1092.0	1093.8	1096.8	1100.4	1103.4	1111.8	1120.2	1125.6	1129.8	1131.0
10°	1110.6	1115.4	1120.8	1128.6	1137.0	1152.0	1159.2	1167.6	1173.0	1181.4	1183.2
12.5°	1165.8	1171.8	1175.4	1187.4	1198.2	1212.6	1222.8	1225.2	1237.8	1245.0	1253.4
15°	1258.8	1267.8	1280.4	1287.6	1299.6	1312.2	1321.2	1333.2	1335.0	1344.6	1351.2
17.5°	1372.8	1385.4	1411.2	1428.6	1444.2	1456.8	1474.8	1488.6	1491.6	1502.4	1488.6
20°	1532.4	1563.0	1567.2	1602.0	1615.8	1641.0	1677.0	1683.6	1701.0	1683.6	1673.4
22.5°	1748.4	1796.4	1809.6	1843.2	1860.0	1898.4	1909.2	1944.6	1956.6	1943.4	1915.8
25°	1996.8	2071.2	2109.6	2161.2	2169.6	2248.2	2256.6	2298.0	2275.8	2244.0	2244.6
27.5°	2179.8	2306.4	2405.4	2493.6	2555.4	2644.2	2713.2	2732.4	2711.4	2670.0	2655.6
30°	2284.2	2427.6	2569.8	2691.6	2835.6	2971.2	3112.2	3182.4	3194.4	3216.0	3129.0
32.5°	2351.4	2535.6	2704.8	2855.4	3003.0	3177.6	3366.6	3547.2	3699.0	3813.6	3759.6
35°	2407.8	2635.2	2851.8	3034.2	3208.8	3399.0	3589.8	3802.8	4054.2	4201.2	4231.8
37.5°	2430.6	2708.4	2973.6	3207.6	3453.0	3667.2	3856.8	4046.4	4310.4	4572.6	4653.6
40°	2426.4	2744.4	3046.2	3340.2	3640.8	3908.4	4130.4	4354.8	4663.8	4970.4	5102.4
42.5°	2398.2	2749.8	3092.4	3428.4	3771.0	4126.8	4410.6	4669.2	4965.6	5358.6	5545.2
45°	2362.8	2731.2	3102.0	3473.4	3867.6	4279.2	4638.0	4957.8	5305.2	5693.4	5919.0
47.5°	2314.8	2701.8	3090.0	3489.0	3910.8	4377.0	4798.8	5183.4	5565.6	6012.6	6298.8
50°	2262.6	2659.8	3065.4	3477.6	3921.6	4430.4	4890.6	5328.6	5775.0	6257.4	6619.2
52.5°	2226.0	2614.8	3043.2	3454.2	3910.8	4446.6	4924.2	5406.6	5903.4	6402.0	6834.0
55°	2181.0	2554.8	2983.8	3399.6	3871.2	4437.6	4920.6	5433.6	5938.8	6457.8	6951.0
57.5°	2184.0	2527.2	2933.4	3334.2	3790.2	4354.2	4852.8	5406.6	5883.0	6421.8	6955.2
60°	2278.8	2586.6	2959.8	3347.4	3766.2	4301.4	4737.6	5232.6	5719.2	6297.6	6858.0
62.5°	2474.4	2756.4	3095.4	3479.4	3901.2	4407.0	4685.4	4943.4	5375.4	6069.0	6692.4
65°	2707.8	2962.2	3256.2	3621.6	4094.4	4578.6	4656.0	4708.2	4926.6	5624.4	6381.6
67.5°	2941.2	3168.6	3399.6	3702.6	4204.2	4627.8	4536.0	4411.8	4529.4	5107.8	5770.8
70°	3025.2	3327.0	3478.8	3687.0	4120.8	4513.2	4342.2	4029.6	4070.4	4596.0	5080.8
72.5°	2899.2	3329.4	3379.8	3457.2	3749.4	4118.4	3937.8	3535.8	3527.4	3928.8	4320.6
75°	2431.8	3037.2	3036.6	3007.8	3073.8	3283.8	3190.2	2947.8	3050.4	3366.6	3495.6
77.5°	1733.4	2370.0	2400.0	2206.2	2201.4	2296.2	2352.6	2634.6	3006.6	3184.2	3143.4
80°	1089.0	1599.0	1728.0	1488.6	1437.6	1572.0	1920.6	2331.0	2788.8	2948.4	2811.0
82.5°	655.8	1030.2	1305.0	1169.4	1157.4	1402.2	1787.4	1947.0	2084.4	2254.2	2024.4
85°	445.2	686.4	892.8	919.8	1024.8	1278.0	1445.4	1374.6	1378.2	1333.8	1215.0
87.5°	85.2	187.2	306.0	373.2	414.0	556.2	604.8	547.8	578.4	423.0	462.6
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: P158760

CATALOG NUMBER: VTS-E03-LED-E1-SLL

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6
2.5°	1054.2	1054.2	1054.2	1051.2	1051.8	1047.6	1045.8	1045.8	1044.0	1044.0	1043.4
5°	1087.2	1083.6	1085.4	1084.8	1084.8	1078.8	1075.8	1075.8	1068.0	1068.6	1066.2
7.5°	1136.4	1135.8	1137.6	1134.0	1129.2	1124.4	1119.6	1117.2	1106.4	1099.8	1095.6
10°	1192.2	1191.6	1193.4	1192.8	1184.4	1175.4	1162.2	1152.6	1139.4	1129.2	1119.0
12.5°	1253.4	1252.8	1251.6	1246.2	1237.2	1222.8	1206.0	1189.8	1170.0	1156.8	1141.8
15°	1348.8	1347.0	1339.8	1332.0	1322.4	1300.2	1270.8	1247.4	1221.0	1198.2	1173.6
17.5°	1489.8	1474.8	1473.6	1456.2	1430.4	1401.0	1373.4	1334.4	1296.6	1262.4	1228.8
20°	1684.2	1649.4	1639.8	1620.0	1585.8	1555.2	1495.2	1443.0	1391.4	1344.6	1302.0
22.5°	1896.0	1870.8	1847.4	1815.0	1768.2	1723.8	1647.6	1582.2	1516.2	1456.2	1408.8
25°	2191.8	2148.0	2106.0	2054.4	1989.6	1936.8	1849.8	1783.8	1697.4	1642.8	1574.4
27.5°	2574.0	2499.0	2428.2	2383.8	2269.8	2193.0	2082.0	1996.8	1892.4	1818.6	1737.6
30°	3071.4	2984.4	2879.4	2725.8	2590.2	2437.8	2300.4	2191.2	2080.2	1977.0	1883.4
32.5°	3688.2	3534.6	3368.4	3124.8	2902.2	2685.0	2502.0	2367.6	2254.2	2125.8	1993.8
35°	4209.6	4051.2	3815.4	3505.8	3231.0	2982.6	2763.6	2580.0	2431.8	2269.2	2094.6
37.5°	4621.2	4440.6	4219.2	3890.4	3600.0	3317.4	3087.6	2853.6	2659.2	2435.4	2214.6
40°	5092.8	4911.6	4668.0	4327.2	3983.4	3676.8	3407.4	3165.6	2926.8	2653.8	2370.0
42.5°	5503.8	5373.0	5126.4	4774.2	4393.2	4051.8	3757.2	3480.6	3168.6	2863.2	2527.2
45°	5932.2	5799.0	5565.0	5196.6	4791.6	4411.2	4059.0	3761.4	3393.0	3029.4	2644.8
47.5°	6310.8	6174.0	5937.6	5571.6	5141.4	4740.6	4353.0	3993.0	3565.2	3147.6	2721.6
50°	6672.0	6504.6	6288.0	5923.2	5463.6	5035.2	4614.6	4152.6	3699.0	3230.4	2773.8
52.5°	7003.8	6790.8	6585.6	6210.0	5713.2	5265.6	4796.4	4288.2	3781.2	3295.8	2809.2
55°	7192.2	7054.8	6809.4	6440.4	5890.8	5424.0	4911.6	4383.6	3862.8	3342.0	2824.2
57.5°	7250.4	7216.8	7011.0	6573.6	5995.2	5511.0	4989.6	4459.2	3917.4	3355.2	2803.2
60°	7204.2	7265.4	7152.6	6667.2	6042.6	5536.8	5028.0	4513.2	3927.0	3313.2	2739.6
62.5°	7056.0	7195.2	7180.8	6698.4	6018.0	5504.4	5023.8	4485.6	3837.0	3182.4	2596.8
65°	6812.4	6987.6	7049.4	6582.6	5879.4	5386.2	4917.0	4312.2	3586.8	2926.8	2357.4
67.5°	6354.0	6619.2	6679.2	6203.4	5517.0	5059.2	4609.2	3952.2	3123.6	2531.4	1983.6
70°	5435.4	5899.2	5980.2	5481.0	4878.0	4476.0	4094.4	3381.6	2601.0	2030.4	1522.2
72.5°	4339.2	4630.8	4796.4	4452.6	4003.8	3712.2	3423.0	2594.4	1962.6	1498.2	1047.6
75°	3392.4	3375.0	3523.2	3294.6	3030.6	2894.4	2677.2	1810.2	1314.6	992.4	663.0
77.5°	2900.4	2677.2	2508.6	2347.8	2191.2	2148.0	1939.8	1123.2	812.4	594.6	396.6
80°	2410.8	2003.4	1695.6	1469.4	1413.6	1498.8	1269.6	662.4	481.2	341.4	249.0
82.5°	1722.6	1441.2	1173.0	1029.6	934.2	1069.8	748.8	367.8	261.0	204.6	165.0
85°	1116.6	1067.4	1056.0	1009.2	893.4	843.6	568.8	316.8	195.6	127.2	102.6
87.5°	429.6	550.8	635.4	681.0	736.2	655.8	296.4	109.2	107.4	66.0	49.8
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: P158760

CATALOG NUMBER: VTS-E03-LED-E1-SLL

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6
2.5°	1039.2	1036.8	1036.2	1034.4	1033.2	1033.2	1030.2	975.6	975.0	975.0	974.4
5°	1061.4	1058.4	1055.4	1054.8	1052.4	1052.4	1049.4	994.8	994.8	994.8	993.6
7.5°	1091.4	1085.4	1081.8	1080.0	1076.4	1078.2	1080.6	1025.4	1026.0	1025.4	1026.6
10°	1113.0	1109.4	1105.2	1104.0	1101.6	1103.4	1107.0	1052.4	1054.2	1054.8	1056.0
12.5°	1134.0	1128.0	1122.6	1120.8	1119.6	1124.4	1128.6	1075.8	1077.6	1079.4	1079.4
15°	1159.8	1149.6	1142.4	1138.2	1135.8	1140.6	1146.6	1094.4	1095.0	1096.8	1096.2
17.5°	1203.6	1188.6	1171.8	1168.8	1161.0	1162.8	1164.0	1105.8	1103.4	1099.2	1092.0
20°	1271.4	1248.6	1225.8	1216.2	1200.6	1194.0	1180.8	1106.4	1091.4	1078.8	1068.0
22.5°	1368.6	1335.0	1310.4	1294.2	1262.4	1240.2	1204.2	1103.4	1075.2	1053.6	1036.8
25°	1525.8	1485.6	1447.8	1407.0	1357.2	1312.8	1260.0	1129.8	1086.0	1048.8	1016.4
27.5°	1678.8	1615.2	1557.0	1495.8	1425.6	1359.0	1284.6	1138.2	1088.4	1040.4	987.6
30°	1793.4	1701.0	1612.8	1523.4	1431.6	1345.2	1261.2	1109.4	1050.0	996.0	940.2
32.5°	1863.0	1743.0	1628.4	1517.4	1409.4	1312.2	1218.0	1059.6	994.2	930.6	871.2
35°	1929.0	1780.2	1638.0	1507.2	1383.6	1275.6	1174.2	1001.4	923.4	855.6	780.6
37.5°	2010.6	1819.2	1644.0	1488.6	1345.8	1222.2	1110.6	928.2	850.2	766.8	696.0
40°	2108.4	1859.4	1638.0	1451.4	1287.0	1152.0	1033.8	851.4	764.4	683.4	613.8
42.5°	2201.4	1894.8	1622.4	1401.6	1222.8	1078.8	963.6	783.0	696.0	613.2	544.2
45°	2270.4	1924.8	1614.6	1366.8	1173.6	1029.0	901.8	727.8	636.0	552.6	482.4
47.5°	2318.4	1942.8	1611.0	1347.6	1139.4	977.4	845.4	672.6	576.0	492.0	423.6
50°	2343.6	1942.2	1602.0	1326.6	1089.0	915.6	787.2	616.8	520.8	438.6	376.2
52.5°	2350.2	1931.4	1582.8	1288.2	1027.8	853.8	724.8	558.6	472.2	393.6	330.6
55°	2335.2	1905.0	1542.6	1224.0	962.4	788.4	667.8	513.0	424.8	350.4	301.2
57.5°	2292.6	1858.2	1467.0	1135.8	893.4	727.8	602.4	457.8	373.2	310.8	270.0
60°	2213.4	1759.2	1348.8	1031.4	805.8	635.4	512.4	385.8	318.6	271.8	238.8
62.5°	2067.0	1603.8	1182.6	887.4	679.8	515.4	409.2	307.8	257.4	226.8	206.4
65°	1831.2	1369.8	990.0	699.0	516.6	375.0	304.2	231.6	195.0	176.4	170.4
67.5°	1494.6	1057.8	720.0	485.4	349.8	262.8	211.8	169.2	151.8	144.6	142.2
70°	1086.6	720.6	466.2	306.6	231.0	183.6	160.2	136.2	126.6	124.8	124.8
72.5°	682.2	438.0	285.6	210.0	175.2	148.8	136.8	120.0	116.4	115.2	113.4
75°	400.2	265.8	202.2	172.2	150.0	133.2	123.0	109.2	106.8	106.2	104.4
77.5°	255.0	191.4	163.2	147.0	135.6	120.6	111.6	97.2	96.6	96.0	95.4
80°	183.0	159.0	142.8	130.2	118.8	105.0	99.6	88.2	87.0	86.4	87.6
82.5°	138.6	131.4	124.8	115.2	99.6	89.4	85.2	77.4	78.0	75.0	74.4
85°	95.4	94.2	93.6	89.4	78.0	69.0	66.0	61.8	64.8	61.8	58.2
87.5°	46.8	46.2	42.6	50.4	46.8	37.2	33.6	37.2	41.4	40.2	37.2
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: P158760

CATALOG NUMBER: VTS-E03-LED-E1-SLL

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6
2.5°	972.0	969.6	971.4	970.2	970.2	969.6	970.8	969.0	967.8	969.0	969.6
5°	991.2	988.2	988.8	984.6	986.4	982.2	983.4	980.4	977.4	976.2	976.2
7.5°	1023.6	1020.6	1017.0	1016.4	1009.8	1007.4	1003.2	1000.8	999.0	994.8	992.4
10°	1053.0	1048.2	1044.0	1043.4	1036.8	1030.8	1025.4	1020.6	1017.6	1011.6	1008.6
12.5°	1077.0	1072.2	1065.6	1062.0	1055.4	1048.2	1044.6	1037.4	1033.2	1026.6	1021.2
15°	1090.8	1082.4	1072.8	1066.2	1056.6	1048.8	1043.4	1038.0	1033.8	1025.4	1017.6
17.5°	1084.2	1070.4	1057.2	1045.2	1032.0	1024.8	1017.0	1010.4	1009.2	999.6	987.6
20°	1056.6	1040.4	1023.0	1006.8	989.4	979.2	969.6	959.4	956.4	945.0	929.4
22.5°	1023.0	1004.4	984.6	964.8	942.6	928.2	913.8	901.2	891.0	874.2	852.0
25°	988.8	961.2	932.4	907.2	881.4	863.4	848.4	834.6	822.6	795.6	772.8
27.5°	943.8	900.6	871.2	842.4	811.2	787.8	771.0	751.8	738.6	707.4	683.4
30°	886.2	843.0	801.0	772.2	741.0	715.8	694.2	666.6	647.4	624.6	602.4
32.5°	813.6	770.4	727.8	695.4	669.6	638.4	611.4	585.0	562.8	540.6	523.2
35°	725.4	683.4	643.2	610.8	582.0	557.4	531.6	508.8	483.6	459.6	449.4
37.5°	632.4	587.4	543.0	514.8	492.0	474.6	450.6	432.0	409.2	394.8	382.8
40°	551.4	503.4	461.4	437.4	419.4	399.6	379.8	365.4	349.2	334.8	325.8
42.5°	483.0	438.0	402.0	381.6	360.0	338.4	323.4	311.4	301.2	290.4	279.6
45°	420.0	376.8	346.8	321.6	303.6	286.2	276.0	270.6	264.6	258.0	250.8
47.5°	367.2	330.0	300.6	277.2	258.6	246.6	241.8	240.0	237.6	232.2	228.6
50°	327.0	296.4	266.4	245.4	229.8	223.8	218.4	216.6	213.6	211.8	209.4
52.5°	293.4	261.0	235.8	216.6	207.0	204.6	202.2	199.8	199.2	198.0	196.8
55°	265.8	237.6	214.2	199.8	195.0	193.2	192.6	190.2	189.6	189.6	187.8
57.5°	241.2	217.2	196.2	187.2	184.2	182.4	181.2	180.0	180.0	181.2	180.6
60°	216.0	195.6	183.0	178.2	176.4	173.4	170.4	169.2	169.8	172.8	172.8
62.5°	191.4	176.4	168.6	166.8	165.0	162.6	159.0	157.8	159.0	162.6	164.4
65°	164.4	157.8	155.4	154.2	153.0	151.2	148.8	147.6	148.2	150.0	152.4
67.5°	139.8	139.2	139.2	139.8	139.2	138.6	137.4	135.6	135.0	135.0	136.2
70°	124.8	124.8	126.6	126.6	126.0	126.0	124.2	122.4	121.2	120.0	120.6
72.5°	113.4	113.4	114.0	114.6	114.0	114.0	111.6	110.4	107.4	106.8	105.6
75°	103.8	102.6	102.6	102.0	101.4	102.0	99.6	96.6	95.4	94.8	93.6
77.5°	94.2	91.8	90.6	89.4	90.0	89.4	87.6	85.8	84.0	83.4	82.8
80°	83.4	79.8	78.0	75.0	76.8	77.4	76.2	74.4	73.8	73.2	72.6
82.5°	69.0	65.4	63.0	61.2	60.0	61.2	63.0	67.2	66.0	65.4	64.2
85°	54.0	48.0	45.0	45.6	42.6	43.2	48.6	51.0	51.0	52.2	51.0
87.5°	30.6	29.4	22.2	20.4	21.6	25.8	28.8	31.8	31.8	30.0	33.6
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: P158760

CATALOG NUMBER: VTS-E03-LED-E1-SLL

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6
2.5°	969.6	970.8	971.4	973.8	975.0	975.6	976.2	977.4	978.0	977.4	980.4
5°	974.4	974.4	973.2	975.0	975.6	975.6	974.4	975.6	975.6	975.6	978.6
7.5°	987.0	983.4	981.6	979.2	977.4	975.0	972.0	972.0	971.4	972.0	973.8
10°	1000.2	994.8	988.2	982.2	976.8	972.6	967.2	965.4	964.8	964.2	969.0
12.5°	1010.4	1000.8	990.6	980.4	969.6	962.4	953.4	948.0	947.4	947.4	953.4
15°	1003.2	987.6	967.8	949.8	940.2	930.0	919.8	913.2	912.6	913.8	917.4
17.5°	967.2	942.0	924.6	907.2	894.6	886.2	879.6	878.4	880.8	878.4	883.2
20°	906.0	879.0	867.0	853.2	848.4	842.4	832.8	824.4	824.4	813.6	816.6
22.5°	826.8	811.8	796.2	785.4	781.8	771.6	761.4	750.0	748.8	735.6	733.8
25°	744.0	729.0	716.4	714.0	703.2	689.4	679.8	666.6	663.6	650.4	648.6
27.5°	659.4	647.4	634.8	627.6	621.6	606.6	598.2	582.6	576.6	562.2	560.4
30°	579.0	570.6	555.6	549.6	538.2	520.8	502.8	493.2	488.4	473.4	468.6
32.5°	503.4	490.2	478.8	471.6	457.2	437.4	421.2	407.4	398.4	380.4	375.6
35°	431.4	418.2	412.8	394.2	381.6	368.4	346.2	337.8	321.6	307.8	303.0
37.5°	367.8	355.2	348.0	332.4	319.8	306.6	293.4	282.6	274.8	271.8	271.8
40°	313.2	306.6	297.6	286.2	277.8	268.2	261.0	257.4	256.8	258.0	261.0
42.5°	274.2	267.0	261.0	255.0	249.0	247.8	246.0	248.4	251.4	254.4	257.4
45°	244.8	238.8	235.2	232.8	232.2	234.0	237.6	241.2	246.6	250.2	252.6
47.5°	223.8	219.0	217.8	217.2	220.2	225.6	230.4	235.8	240.0	243.6	246.0
50°	205.8	201.6	201.0	200.4	204.6	209.4	213.6	220.8	223.8	226.2	228.0
52.5°	193.2	189.6	187.8	188.4	192.6	196.8	202.8	208.2	212.4	214.2	216.0
55°	183.0	181.8	177.6	179.4	183.6	189.0	195.0	201.0	205.2	208.2	211.2
57.5°	175.2	172.2	169.2	172.2	176.4	181.8	189.0	194.4	199.8	204.0	207.0
60°	166.8	164.4	162.0	165.0	169.2	174.6	180.0	187.2	193.8	198.0	201.0
62.5°	159.6	157.8	155.4	156.0	157.8	161.4	164.4	171.0	177.0	182.4	186.0
65°	149.4	148.8	145.2	145.8	147.0	150.6	153.0	159.0	165.0	169.8	172.8
67.5°	134.4	133.2	133.2	135.0	135.6	137.4	139.2	145.2	150.0	153.6	157.2
70°	119.4	118.8	118.8	120.0	119.4	121.2	123.6	129.0	135.0	138.6	142.2
72.5°	105.0	105.0	104.4	105.6	105.6	106.2	109.2	114.0	119.4	122.4	124.8
75°	92.4	91.8	91.8	91.8	92.4	92.4	95.4	99.6	105.0	106.8	110.4
77.5°	81.0	81.0	81.0	81.0	81.6	81.0	82.8	85.8	87.6	90.6	90.6
80°	71.4	70.8	71.4	72.0	72.0	71.4	71.4	72.0	72.6	72.6	72.6
82.5°	63.0	61.2	62.4	65.4	65.4	65.4	64.8	60.6	57.6	57.6	58.8
85°	50.4	50.4	51.0	55.2	55.8	53.4	55.8	49.8	43.8	42.0	43.2
87.5°	31.2	24.6	30.0	34.2	34.2	32.4	36.0	33.6	28.2	22.8	21.6
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: P158760  
 CATALOG NUMBER: VTS-E03-LED-E1-SLL

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	0°
2.5°	982.8	983.4	987.0	988.8	988.8	991.2	992.4	996.0	995.4	995.4	996.6	2.5°
5°	981.6	983.4	987.0	989.4	990.6	993.6	996.0	1000.2	999.6	1000.8	1001.4	5°
7.5°	977.4	982.2	985.8	990.6	994.8	997.2	1000.2	1003.8	1002.6	1003.2	1002.6	7.5°
10°	973.8	978.6	985.8	992.4	998.4	1002.0	1003.8	1008.0	1007.4	1008.6	1008.6	10°
12.5°	959.4	967.8	976.8	987.0	996.0	1005.6	1011.6	1020.6	1024.8	1030.2	1036.2	12.5°
15°	922.8	932.4	946.8	958.2	975.6	988.8	1006.2	1023.6	1039.2	1054.2	1071.6	15°
17.5°	886.8	891.0	902.4	918.0	933.6	953.4	974.4	1005.6	1033.8	1064.4	1098.0	17.5°
20°	820.2	827.4	835.2	853.8	872.4	900.6	926.4	967.2	1008.6	1056.6	1108.2	20°
22.5°	738.0	745.2	753.6	774.6	797.4	826.2	857.4	903.0	958.2	1020.6	1089.6	22.5°
25°	649.2	653.4	660.0	681.0	694.8	732.6	770.4	817.8	877.8	958.2	1038.6	25°
27.5°	551.4	559.2	564.6	574.2	606.0	638.4	678.0	729.0	801.6	883.8	981.0	27.5°
30°	457.8	464.4	461.4	481.8	502.8	537.0	579.6	636.0	705.6	803.4	915.6	30°
32.5°	366.0	370.8	369.0	383.4	404.4	438.6	478.8	540.0	613.8	718.2	840.0	32.5°
35°	301.8	303.0	309.6	316.2	334.2	361.8	396.0	449.4	525.0	621.0	750.0	35°
37.5°	271.8	274.2	278.4	287.4	300.6	320.4	348.6	390.0	454.8	539.4	654.6	37.5°
40°	262.8	264.6	267.0	273.0	285.6	303.0	328.2	363.0	410.4	481.8	575.4	40°
42.5°	258.6	258.6	258.6	262.2	271.8	290.4	319.2	353.4	394.8	448.8	524.4	42.5°
45°	252.6	252.6	252.0	253.8	260.4	279.0	310.2	348.6	393.0	444.6	510.0	45°
47.5°	246.0	245.4	243.6	243.6	247.8	266.4	298.8	340.2	388.8	448.2	518.4	47.5°
50°	228.0	228.0	228.0	229.8	233.4	250.2	285.0	328.8	384.6	450.6	531.6	50°
52.5°	217.8	218.4	220.2	220.2	223.8	241.2	277.8	326.4	387.0	459.6	548.4	52.5°
55°	213.0	214.8	216.6	216.6	219.6	237.6	275.4	328.2	396.0	478.2	577.2	55°
57.5°	208.8	210.6	211.8	211.8	214.2	229.8	268.8	325.2	401.4	496.2	612.6	57.5°
60°	201.0	202.2	202.8	202.8	203.4	216.6	253.8	310.8	389.4	495.0	631.8	60°
62.5°	186.6	189.0	189.6	190.2	190.2	202.8	234.6	287.4	363.6	477.0	626.4	62.5°
65°	175.8	177.0	178.8	180.0	182.4	190.8	216.0	259.2	330.0	441.0	596.4	65°
67.5°	159.0	160.8	162.6	165.0	167.4	172.8	192.6	227.4	284.4	379.8	529.2	67.5°
70°	144.0	144.6	146.4	149.4	150.0	153.0	167.4	191.4	232.8	304.8	426.0	70°
72.5°	125.4	126.6	129.0	132.6	132.6	135.0	143.4	156.0	182.4	232.8	314.4	72.5°
75°	109.2	110.4	112.2	112.2	109.2	109.8	115.8	124.8	144.6	175.2	229.2	75°
77.5°	90.6	93.0	94.8	91.2	90.0	91.8	94.8	101.4	115.8	139.2	172.2	77.5°
80°	75.0	76.2	76.8	77.4	76.2	78.0	80.4	84.6	94.2	112.2	136.2	80°
82.5°	60.0	61.2	63.0	65.4	65.4	72.0	72.6	72.6	78.0	89.4	106.8	82.5°
85°	44.4	46.8	49.2	52.2	52.8	56.4	54.6	54.0	55.8	66.6	73.8	85°
87.5°	22.8	24.6	25.8	28.2	25.2	26.4	26.4	24.6	21.6	27.0	30.0	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: P158760

NUMBER: VTS-E03-LED-E1-SLL

**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
1002.6	1002.6	1002.6	1002.6	1002.6	1002.6	1002.6
997.8	996.6	997.8	997.8	999.6	998.4	1062.0
1002.6	1001.4	1002.6	1003.8	1005.6	1005.6	1075.8
1003.2	1003.2	1002.0	1005.0	1007.4	1009.8	1089.0
1010.4	1010.4	1011.6	1012.2	1017.6	1023.6	1110.6
1039.8	1042.8	1048.2	1050.0	1059.6	1066.2	1165.8
1084.8	1101.6	1112.4	1116.0	1124.4	1137.0	1258.8
1130.4	1158.6	1188.0	1206.0	1216.8	1231.8	1372.8
1164.6	1217.4	1267.8	1312.8	1338.6	1368.0	1532.4
1167.6	1251.6	1336.8	1420.2	1489.2	1543.8	1748.4
1138.8	1249.2	1366.8	1494.6	1613.4	1711.8	1996.8
1102.2	1237.8	1387.8	1551.0	1707.0	1852.2	2179.8
1056.0	1218.6	1391.4	1575.0	1758.0	1932.6	2284.2
985.8	1161.6	1348.2	1551.0	1763.4	1975.8	2351.4
895.8	1075.2	1266.6	1497.6	1738.2	1993.2	2407.8
804.0	981.0	1186.8	1426.2	1698.0	1990.2	2430.6
706.8	882.6	1093.2	1350.0	1643.4	1962.6	2426.4
640.8	801.0	1007.4	1272.6	1582.8	1926.0	2398.2
602.4	742.8	939.6	1201.8	1527.6	1882.2	2362.8
601.8	725.4	903.6	1151.4	1471.8	1833.6	2314.8
622.8	736.2	899.4	1129.8	1441.2	1798.2	2262.6
647.4	766.2	921.6	1137.6	1440.6	1782.6	2226.0
686.4	817.2	970.2	1171.2	1456.2	1780.2	2181.0
736.2	886.2	1057.8	1254.0	1516.8	1827.6	2184.0
787.2	967.2	1172.4	1395.6	1636.2	1938.0	2278.8
805.8	1029.6	1288.8	1561.8	1815.0	2103.6	2474.4
789.6	1044.0	1359.6	1690.8	1989.0	2297.4	2707.8
729.6	985.8	1330.8	1727.4	2089.2	2434.8	2941.2
600.6	841.2	1200.0	1645.2	2081.4	2463.0	3025.2
440.4	652.2	975.6	1398.0	1850.4	2286.6	2899.2
318.0	461.4	704.4	1053.0	1462.8	1841.4	2431.8
228.0	319.8	457.2	691.8	996.6	1282.2	1733.4
163.8	217.2	285.0	415.2	607.2	787.2	1089.0
120.6	148.8	187.2	258.0	357.6	458.4	655.8
82.2	87.6	112.8	152.4	234.6	337.2	445.2
31.2	35.4	41.4	62.4	105.0	120.6	85.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)