

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: P158768

Luminaire Tested: **VTS-E04-LED-E1-SLL-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158768  
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-E04-LED-E1-SLL-8030  
Description: VENTUS LED SITE LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (84) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

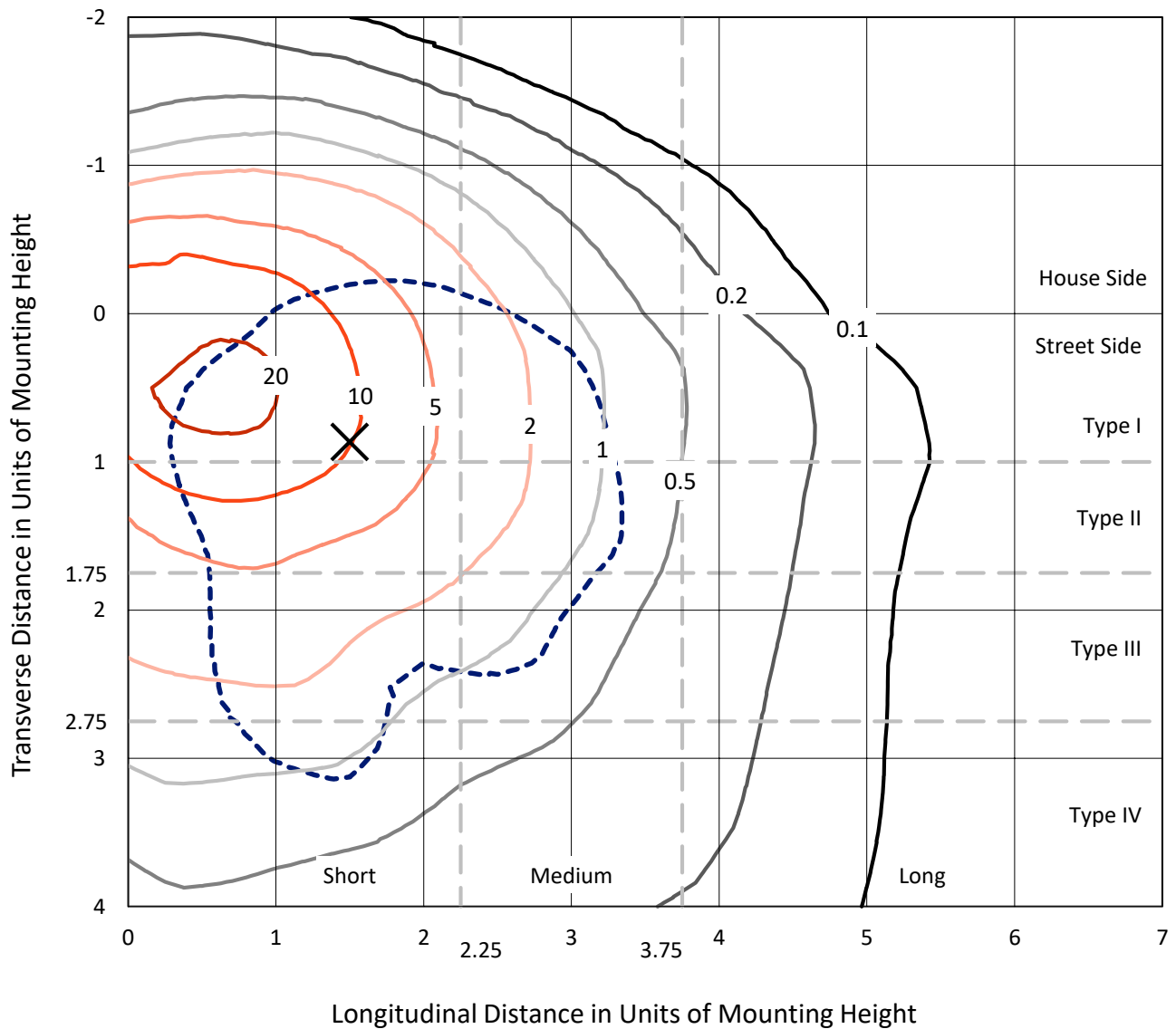
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9072.2 lumens  
Efficiency: N/A  
Efficacy: 93.3 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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

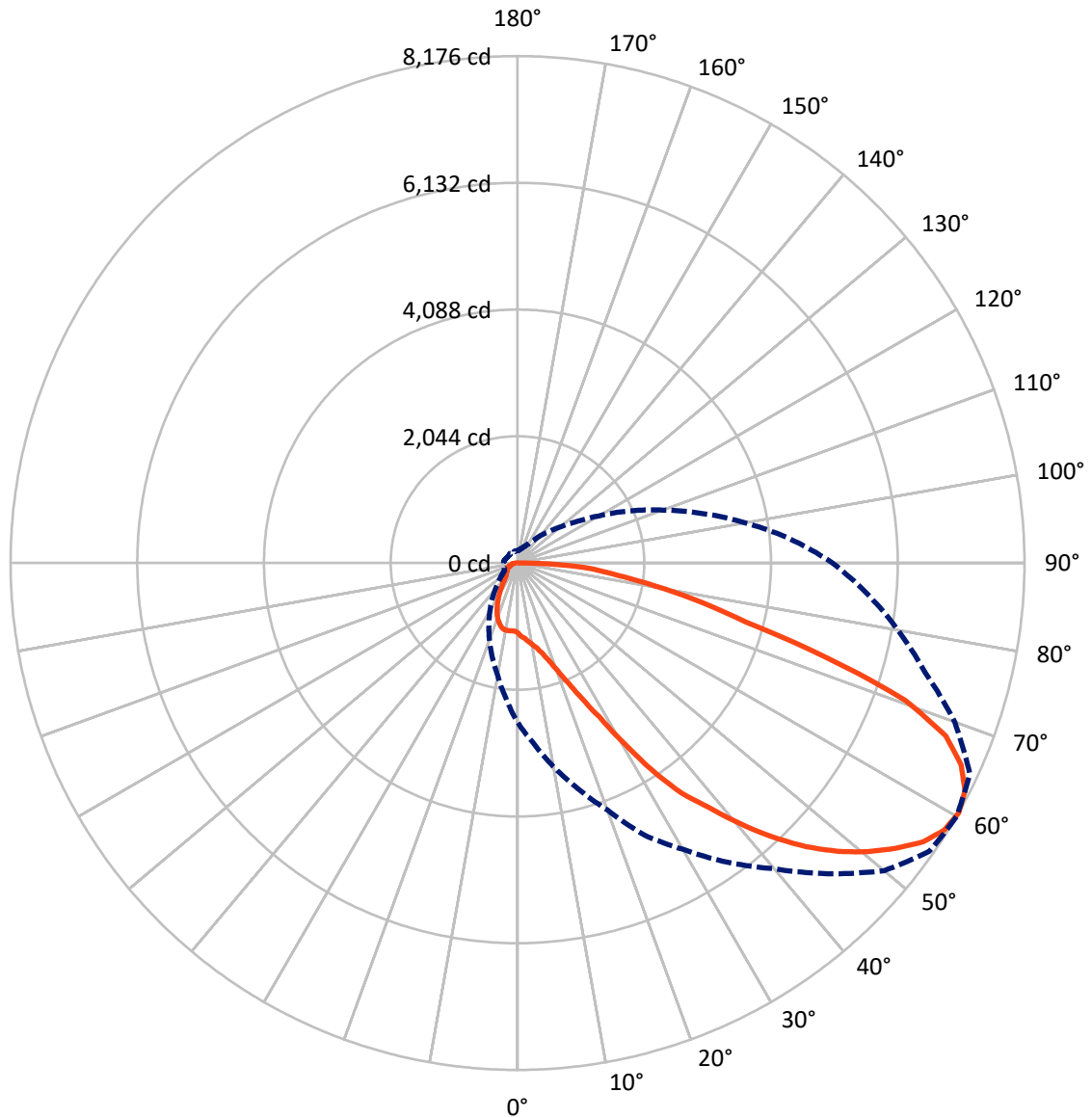
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2042.8	0.0	2042.8
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	7029.4	0.0	7029.4
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	9072.2	0.0	9072.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.3	1.2
10°-20°	359.4	4.0
20°-30°	682.0	7.5
30°-40°	1074.0	11.8
40°-50°	1499.1	16.5
50°-60°	1854.0	20.4
60°-70°	1921.7	21.2
70°-80°	1209.2	13.3
80°-90°	361.5	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°	9072.2	100.0
0°-180°	9072.2	100.0



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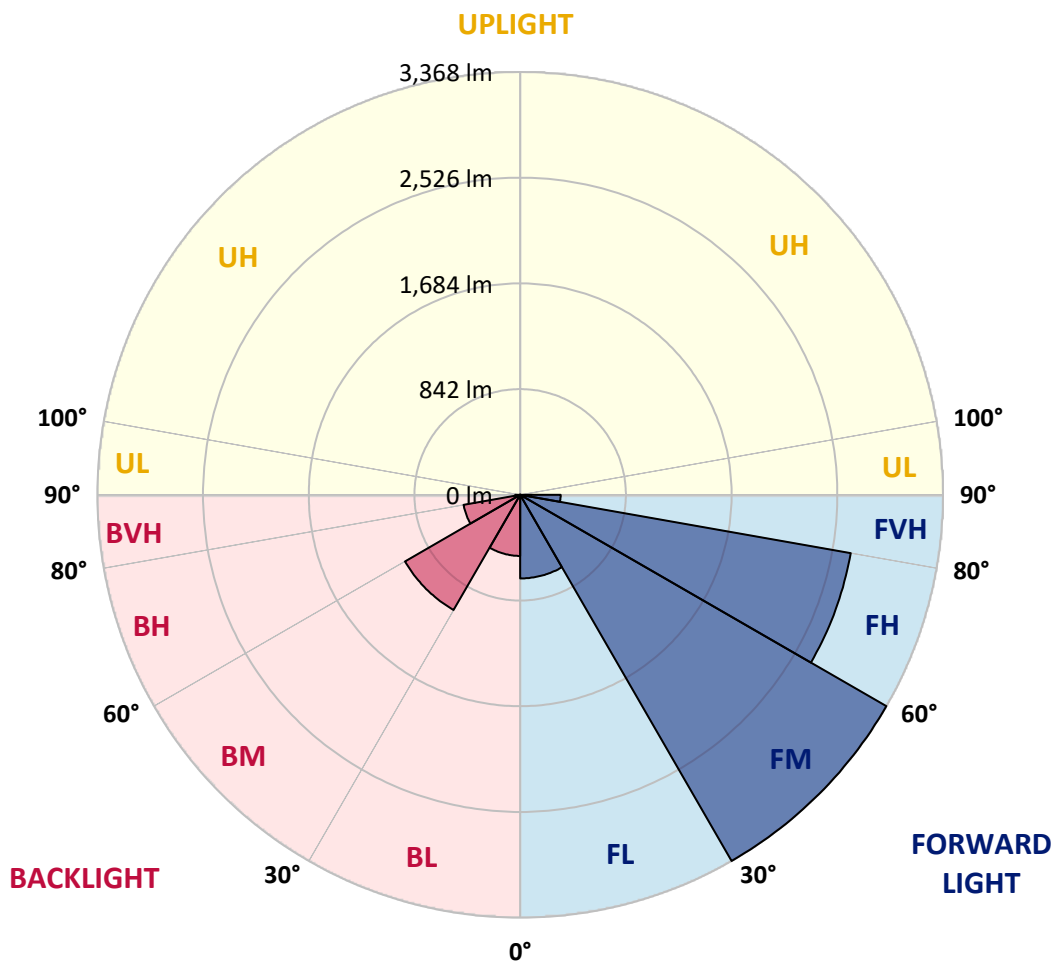
CATALOG NUMBER: VTS-E04-LED-E1-SLL-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	666.0	7.3			
FM	(30°-60°)	3367.7	37.1			
FH	(60°-80°)	2673.5	29.5			G2/5000
FVH	(80°-90°)	322.1	3.6			G3/500
BL	(0°-30°)	486.7	5.4	B1/500		
BM	(30°-60°)	1059.3	11.7	B2/2500		
BH	(60°-80°)	457.5	5.0	B1/500		G1/500
BVH	(80°-90°)	39.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2
2.5°	1195.1	1193.7	1193.7	1193.7	1193.1	1191.7	1193.7	1193.1	1189.7	1187.7	1189.7
5°	1210.6	1211.3	1213.3	1214.0	1214.0	1216.0	1221.4	1222.1	1221.4	1222.8	1226.2
7.5°	1225.5	1228.9	1230.9	1234.3	1238.3	1241.7	1251.1	1260.6	1266.7	1271.4	1272.7
10°	1249.8	1255.2	1261.3	1270.0	1279.5	1296.4	1304.5	1313.9	1320.0	1329.5	1331.5
12.5°	1311.9	1318.7	1322.7	1336.2	1348.4	1364.6	1376.0	1378.7	1392.9	1401.0	1410.5
15°	1416.6	1426.7	1440.9	1449.0	1462.5	1476.6	1486.8	1500.3	1502.3	1513.1	1520.5
17.5°	1544.8	1559.0	1588.1	1607.6	1625.2	1639.4	1659.6	1675.2	1678.5	1690.7	1675.2
20°	1724.4	1758.9	1763.6	1802.8	1818.3	1846.7	1887.2	1894.6	1914.2	1894.6	1883.1
22.5°	1967.5	2021.5	2036.4	2074.2	2093.1	2136.3	2148.5	2188.3	2201.8	2186.9	2155.9
25°	2247.0	2330.8	2374.0	2432.0	2441.5	2529.9	2539.4	2586.0	2561.0	2525.2	2525.9
27.5°	2453.0	2595.4	2706.8	2806.1	2875.6	2975.6	3053.2	3074.8	3051.2	3004.6	2988.4
30°	2570.5	2731.8	2891.9	3028.9	3191.0	3343.6	3502.2	3581.2	3594.7	3619.0	3521.1
32.5°	2646.1	2853.4	3043.8	3213.2	3379.3	3575.8	3788.5	3991.7	4162.6	4291.5	4230.8
35°	2709.5	2965.4	3209.2	3414.4	3610.9	3825.0	4039.7	4279.4	4562.3	4727.7	4762.1
37.5°	2735.2	3047.8	3346.3	3609.6	3885.7	4126.8	4340.1	4553.5	4850.6	5145.6	5236.8
40°	2730.5	3088.3	3428.0	3758.8	4097.1	4398.2	4648.0	4900.5	5248.3	5593.3	5741.8
42.5°	2698.7	3094.4	3479.9	3858.1	4243.6	4644.0	4963.3	5254.3	5587.9	6030.1	6240.1
45°	2658.9	3073.5	3490.7	3908.7	4352.3	4815.5	5219.2	5579.1	5970.1	6406.9	6660.8
47.5°	2604.9	3040.4	3477.2	3926.2	4400.9	4925.5	5400.2	5833.0	6263.1	6766.1	7088.2
50°	2546.2	2993.1	3449.6	3913.4	4413.1	4985.6	5503.5	5996.4	6498.7	7041.6	7448.7
52.5°	2505.0	2942.5	3424.6	3887.1	4400.9	5003.9	5541.3	6084.2	6643.2	7204.3	7690.4
55°	2454.3	2875.0	3357.7	3825.6	4356.3	4993.7	5537.3	6114.5	6683.1	7267.1	7822.1
57.5°	2457.7	2843.9	3301.0	3752.0	4265.2	4899.9	5461.0	6084.2	6620.3	7226.6	7826.8
60°	2564.4	2910.8	3330.7	3766.9	4238.2	4840.5	5331.3	5888.4	6435.9	7086.8	7717.5
62.5°	2784.5	3101.8	3483.3	3915.4	4390.1	4959.3	5272.6	5562.9	6049.1	6829.6	7531.1
65°	3047.1	3333.4	3664.3	4075.5	4607.5	5152.4	5239.5	5298.2	5544.0	6329.3	7181.4
67.5°	3309.8	3565.7	3825.6	4166.6	4731.1	5207.8	5104.5	4964.7	5097.0	5747.9	6494.0
70°	3404.3	3743.9	3914.8	4149.1	4637.2	5078.8	4886.4	4534.6	4580.5	5172.0	5717.5
72.5°	3262.5	3746.6	3803.4	3890.5	4219.3	4634.5	4431.3	3978.9	3969.5	4421.2	4862.1
75°	2736.6	3417.8	3417.2	3384.7	3459.0	3695.3	3590.0	3317.2	3432.7	3788.5	3933.7
77.5°	1950.6	2667.0	2700.8	2482.7	2477.3	2584.0	2647.4	2964.8	3383.4	3583.2	3537.3
80°	1225.5	1799.4	1944.6	1675.2	1617.8	1769.0	2161.3	2623.1	3138.3	3317.9	3163.3
82.5°	738.0	1159.3	1468.5	1316.0	1302.4	1577.9	2011.4	2191.0	2345.6	2536.7	2278.1
85°	501.0	772.4	1004.7	1035.1	1153.2	1438.2	1626.5	1546.9	1550.9	1501.0	1367.3
87.5°	95.9	210.7	344.3	420.0	465.9	625.9	680.6	616.5	650.9	476.0	520.6
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2
2.5°	1186.3	1186.3	1186.3	1182.9	1183.6	1178.9	1176.9	1176.9	1174.8	1174.8	1174.2
5°	1223.4	1219.4	1221.4	1220.7	1220.7	1214.0	1210.6	1210.6	1201.8	1202.5	1199.8
7.5°	1278.8	1278.1	1280.2	1276.1	1270.7	1265.3	1259.9	1257.2	1245.1	1237.6	1232.9
10°	1341.6	1340.9	1343.0	1342.3	1332.8	1322.7	1307.8	1297.0	1282.2	1270.7	1259.2
12.5°	1410.5	1409.8	1408.5	1402.4	1392.2	1376.0	1357.1	1338.9	1316.6	1301.8	1284.9
15°	1517.8	1515.8	1507.7	1498.9	1488.1	1463.1	1430.1	1403.7	1374.0	1348.4	1320.7
17.5°	1676.5	1659.6	1658.3	1638.7	1609.7	1576.6	1545.5	1501.6	1459.1	1420.6	1382.8
20°	1895.3	1856.1	1845.3	1823.0	1784.5	1750.1	1682.6	1623.8	1565.8	1513.1	1465.2
22.5°	2133.6	2105.3	2078.9	2042.5	1989.8	1939.8	1854.1	1780.5	1706.2	1638.7	1585.4
25°	2466.5	2417.2	2369.9	2311.9	2238.9	2179.5	2081.6	2007.3	1910.1	1848.7	1771.7
27.5°	2896.6	2812.2	2732.5	2682.5	2554.3	2467.8	2342.9	2247.0	2129.6	2046.5	1955.4
30°	3456.3	3358.4	3240.2	3067.4	2914.8	2743.3	2588.7	2465.8	2340.9	2224.8	2119.4
32.5°	4150.4	3977.6	3790.5	3516.4	3265.9	3021.5	2815.6	2664.3	2536.7	2392.2	2243.7
35°	4737.2	4558.9	4293.6	3945.2	3635.9	3356.4	3109.9	2903.3	2736.6	2553.6	2357.1
37.5°	5200.3	4997.1	4748.0	4377.9	4051.2	3733.1	3474.5	3211.2	2992.5	2740.6	2492.1
40°	5731.0	5527.1	5253.0	4869.5	4482.6	4137.6	3834.4	3562.3	3293.6	2986.4	2667.0
42.5°	6193.5	6046.4	5768.8	5372.5	4943.8	4559.6	4228.1	3916.8	3565.7	3222.0	2843.9
45°	6675.6	6525.7	6262.4	5847.8	5392.1	4964.0	4567.7	4232.8	3818.2	3409.0	2976.2
47.5°	7101.7	6947.7	6681.7	6269.8	5785.7	5334.7	4898.5	4493.4	4012.0	3542.1	3062.7
50°	7508.1	7319.8	7076.0	6665.5	6148.3	5666.2	5192.9	4673.0	4162.6	3635.2	3121.4
52.5°	7881.5	7641.8	7410.9	6988.2	6429.2	5925.5	5397.5	4825.6	4255.1	3708.8	3161.3
55°	8093.5	7938.9	7662.8	7247.5	6629.0	6103.7	5527.1	4933.0	4346.9	3760.8	3178.1
57.5°	8159.0	8121.2	7889.6	7397.4	6746.5	6201.6	5614.9	5018.0	4408.3	3775.7	3154.5
60°	8107.0	8175.9	8049.0	7502.7	6799.9	6230.7	5658.1	5078.8	4419.1	3728.4	3082.9
62.5°	7940.3	8096.9	8080.7	7537.9	6772.2	6194.2	5653.4	5047.7	4317.9	3581.2	2922.2
65°	7666.1	7863.3	7932.8	7407.5	6616.2	6061.2	5533.2	4852.6	4036.3	3293.6	2652.8
67.5°	7150.3	7448.7	7516.2	6980.8	6208.4	5693.2	5186.8	4447.5	3515.1	2848.6	2232.2
70°	6116.6	6638.5	6729.6	6167.9	5489.3	5036.9	4607.5	3805.4	2927.0	2284.9	1713.0
72.5°	4883.0	5211.1	5397.5	5010.6	4505.6	4177.4	3852.0	2919.5	2208.6	1686.0	1178.9
75°	3817.5	3798.0	3964.7	3707.5	3410.4	3257.1	3012.7	2037.1	1479.3	1116.8	746.1
77.5°	3263.9	3012.7	2823.0	2642.0	2465.8	2417.2	2182.9	1264.0	914.2	669.1	446.3
80°	2712.9	2254.5	1908.1	1653.5	1590.8	1686.6	1428.7	745.4	541.5	384.2	280.2
82.5°	1938.5	1621.8	1320.0	1158.6	1051.3	1203.9	842.6	413.9	293.7	230.2	185.7
85°	1256.5	1201.2	1188.3	1135.7	1005.4	949.3	640.1	356.5	220.1	143.1	115.5
87.5°	483.4	619.8	715.0	766.3	828.5	738.0	333.5	122.9	120.9	74.3	56.0
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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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2
2.5°	1169.4	1166.7	1166.1	1164.0	1162.7	1162.7	1159.3	1097.9	1097.2	1097.2	1096.5
5°	1194.4	1191.0	1187.7	1187.0	1184.3	1184.3	1180.9	1119.5	1119.5	1119.5	1118.1
7.5°	1228.2	1221.4	1217.4	1215.3	1211.3	1213.3	1216.0	1153.9	1154.6	1153.9	1155.3
10°	1252.5	1248.4	1243.7	1242.4	1239.7	1241.7	1245.7	1184.3	1186.3	1187.0	1188.3
12.5°	1276.1	1269.4	1263.3	1261.3	1259.9	1265.3	1270.0	1210.6	1212.6	1214.7	1214.7
15°	1305.1	1293.7	1285.6	1280.8	1278.1	1283.5	1290.3	1231.6	1232.2	1234.3	1233.6
17.5°	1354.4	1337.6	1318.7	1315.3	1306.5	1308.5	1309.9	1244.4	1241.7	1237.0	1228.9
20°	1430.7	1405.1	1379.4	1368.6	1351.1	1343.6	1328.8	1245.1	1228.2	1214.0	1201.8
22.5°	1540.1	1502.3	1474.6	1456.4	1420.6	1395.6	1355.1	1241.7	1209.9	1185.6	1166.7
25°	1717.0	1671.8	1629.2	1583.3	1527.3	1477.3	1417.9	1271.4	1222.1	1180.2	1143.8
27.5°	1889.2	1817.6	1752.1	1683.3	1604.3	1529.3	1445.6	1280.8	1224.8	1170.8	1111.4
30°	2018.2	1914.2	1814.9	1714.3	1611.0	1513.8	1419.3	1248.4	1181.6	1120.8	1058.0
32.5°	2096.5	1961.4	1832.5	1707.6	1586.0	1476.6	1370.6	1192.4	1118.8	1047.2	980.4
35°	2170.7	2003.3	1843.3	1696.1	1557.0	1435.5	1321.4	1126.9	1039.1	962.8	878.4
37.5°	2262.6	2047.2	1850.0	1675.2	1514.5	1375.4	1249.8	1044.5	956.7	862.9	783.2
40°	2372.6	2092.4	1843.3	1633.3	1448.3	1296.4	1163.4	958.1	860.2	769.0	690.7
42.5°	2477.3	2132.3	1825.7	1577.3	1376.0	1214.0	1084.4	881.1	783.2	690.0	612.4
45°	2554.9	2166.0	1816.9	1538.1	1320.7	1158.0	1014.8	819.0	715.7	621.9	542.9
47.5°	2608.9	2186.3	1812.9	1516.5	1282.2	1099.9	951.3	756.9	648.2	553.7	476.7
50°	2637.3	2185.6	1802.8	1492.9	1225.5	1030.3	885.9	694.1	586.1	493.6	423.3
52.5°	2644.7	2173.4	1781.2	1449.6	1156.6	960.8	815.6	628.6	531.4	442.9	372.0
55°	2627.9	2143.7	1735.9	1377.4	1083.0	887.2	751.5	577.3	478.0	394.3	338.9
57.5°	2579.9	2091.1	1650.8	1278.1	1005.4	819.0	677.9	515.2	420.0	349.7	303.8
60°	2490.8	1979.7	1517.8	1160.7	906.8	715.0	576.6	434.1	358.5	305.9	268.7
62.5°	2326.0	1804.8	1330.8	998.6	765.0	580.0	460.5	346.4	289.7	255.2	232.3
65°	2060.7	1541.5	1114.1	786.6	581.3	422.0	342.3	260.6	219.4	198.5	191.8
67.5°	1681.9	1190.4	810.2	546.2	393.6	295.7	238.3	190.4	170.8	162.7	160.0
70°	1222.8	810.9	524.6	345.0	259.9	206.6	180.3	153.3	142.5	140.4	140.4
72.5°	767.7	492.9	321.4	236.3	197.2	167.4	153.9	135.0	131.0	129.6	127.6
75°	450.4	299.1	227.5	193.8	168.8	149.9	138.4	122.9	120.2	119.5	117.5
77.5°	287.0	215.4	183.7	165.4	152.6	135.7	125.6	109.4	108.7	108.0	107.4
80°	205.9	178.9	160.7	146.5	133.7	118.2	112.1	99.3	97.9	97.2	98.6
82.5°	156.0	147.9	140.4	129.6	112.1	100.6	95.9	87.1	87.8	84.4	83.7
85°	107.4	106.0	105.3	100.6	87.8	77.6	74.3	69.5	72.9	69.5	65.5
87.5°	52.7	52.0	47.9	56.7	52.7	41.9	37.8	41.9	46.6	45.2	41.9
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: P158768

CATALOG NUMBER: VTS-E04-LED-E1-SLL-8030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2
2.5°	1093.8	1091.1	1093.1	1091.8	1091.8	1091.1	1092.5	1090.4	1089.1	1090.4	1091.1
5°	1115.4	1112.0	1112.7	1108.0	1110.0	1105.3	1106.6	1103.3	1099.9	1098.5	1098.5
7.5°	1151.9	1148.5	1144.5	1143.8	1136.3	1133.6	1128.9	1126.2	1124.2	1119.5	1116.8
10°	1185.0	1179.6	1174.8	1174.2	1166.7	1160.0	1153.9	1148.5	1145.1	1138.4	1135.0
12.5°	1212.0	1206.6	1199.1	1195.1	1187.7	1179.6	1175.5	1167.4	1162.7	1155.3	1149.2
15°	1227.5	1218.0	1207.2	1199.8	1189.0	1180.2	1174.2	1168.1	1163.4	1153.9	1145.1
17.5°	1220.1	1204.5	1189.7	1176.2	1161.3	1153.2	1144.5	1137.0	1135.7	1124.9	1111.4
20°	1189.0	1170.8	1151.2	1133.0	1113.4	1101.9	1091.1	1079.6	1076.3	1063.4	1045.9
22.5°	1151.2	1130.3	1108.0	1085.7	1060.7	1044.5	1028.3	1014.1	1002.7	983.8	958.8
25°	1112.7	1081.7	1049.2	1020.9	991.9	971.6	954.7	939.2	925.7	895.3	869.6
27.5°	1062.1	1013.5	980.4	948.0	912.9	886.5	867.6	846.0	831.2	796.1	769.0
30°	997.3	948.6	901.4	869.0	833.9	805.5	781.2	750.1	728.5	702.9	677.9
32.5°	915.6	866.9	819.0	782.5	753.5	718.4	688.0	658.3	633.3	608.3	588.8
35°	816.3	769.0	723.8	687.3	654.9	627.3	598.2	572.6	544.2	517.2	505.7
37.5°	711.7	661.0	611.0	579.3	553.7	534.1	507.1	486.1	460.5	444.3	430.8
40°	620.5	566.5	519.2	492.2	472.0	449.7	427.4	411.2	393.0	376.8	366.6
42.5°	543.5	492.9	452.4	429.4	405.1	380.8	363.9	350.4	338.9	326.8	314.6
45°	472.6	424.0	390.3	361.9	341.6	322.1	310.6	304.5	297.8	290.3	282.2
47.5°	413.2	371.4	338.3	311.9	291.0	277.5	272.1	270.1	267.4	261.3	257.2
50°	368.0	333.5	299.8	276.2	258.6	251.8	245.8	243.7	240.4	238.3	235.6
52.5°	330.2	293.7	265.4	243.7	232.9	230.2	227.5	224.8	224.2	222.8	221.5
55°	299.1	267.4	241.0	224.8	219.4	217.4	216.7	214.0	213.4	213.4	211.3
57.5°	271.4	244.4	220.8	210.7	207.3	205.3	203.9	202.6	202.6	203.9	203.2
60°	243.1	220.1	205.9	200.5	198.5	195.1	191.8	190.4	191.1	194.5	194.5
62.5°	215.4	198.5	189.7	187.7	185.7	183.0	178.9	177.6	178.9	183.0	185.0
65°	185.0	177.6	174.9	173.5	172.2	170.1	167.4	166.1	166.8	168.8	171.5
67.5°	157.3	156.6	156.6	157.3	156.6	156.0	154.6	152.6	151.9	151.9	153.3
70°	140.4	140.4	142.5	142.5	141.8	141.8	139.8	137.7	136.4	135.0	135.7
72.5°	127.6	127.6	128.3	129.0	128.3	128.3	125.6	124.2	120.9	120.2	118.8
75°	116.8	115.5	115.5	114.8	114.1	114.8	112.1	108.7	107.4	106.7	105.3
77.5°	106.0	103.3	102.0	100.6	101.3	100.6	98.6	96.6	94.5	93.9	93.2
80°	93.9	89.8	87.8	84.4	86.4	87.1	85.7	83.7	83.0	82.4	81.7
82.5°	77.6	73.6	70.9	68.9	67.5	68.9	70.9	75.6	74.3	73.6	72.2
85°	60.8	54.0	50.6	51.3	47.9	48.6	54.7	57.4	57.4	58.7	57.4
87.5°	34.4	33.1	25.0	23.0	24.3	29.0	32.4	35.8	35.8	33.8	37.8
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: P158768

CATALOG NUMBER: VTS-E04-LED-E1-SLL-8030

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2
2.5°	1091.1	1092.5	1093.1	1095.8	1097.2	1097.9	1098.5	1099.9	1100.6	1099.9	1103.3
5°	1096.5	1096.5	1095.2	1097.2	1097.9	1097.9	1096.5	1097.9	1097.9	1097.9	1101.2
7.5°	1110.7	1106.6	1104.6	1101.9	1099.9	1097.2	1093.8	1093.8	1093.1	1093.8	1095.8
10°	1125.5	1119.5	1112.0	1105.3	1099.2	1094.5	1088.4	1086.4	1085.7	1085.0	1090.4
12.5°	1137.0	1126.2	1114.7	1103.3	1091.1	1083.0	1072.9	1066.8	1066.1	1066.1	1072.9
15°	1128.9	1111.4	1089.1	1068.8	1058.0	1046.5	1035.1	1027.6	1027.0	1028.3	1032.4
17.5°	1088.4	1060.1	1040.5	1020.9	1006.7	997.3	989.8	988.5	991.2	988.5	993.9
20°	1019.5	989.2	975.7	960.1	954.7	948.0	937.2	927.7	927.7	915.6	918.9
22.5°	930.4	913.5	896.0	883.8	879.8	868.3	856.8	844.0	842.6	827.8	825.8
25°	837.2	820.4	806.2	803.5	791.3	775.8	765.0	750.1	746.8	731.9	729.9
27.5°	742.0	728.5	714.4	706.3	699.5	682.6	673.2	655.6	648.9	632.7	630.6
30°	651.6	642.1	625.2	618.5	605.6	586.1	565.8	555.0	549.6	532.7	527.3
32.5°	566.5	551.6	538.8	530.7	514.5	492.2	474.0	458.5	448.3	428.1	422.7
35°	485.5	470.6	464.5	443.6	429.4	414.6	389.6	380.1	361.9	346.4	341.0
37.5°	413.9	399.7	391.6	374.1	359.9	345.0	330.2	318.0	309.2	305.9	305.9
40°	352.5	345.0	334.9	322.1	312.6	301.8	293.7	289.7	289.0	290.3	293.7
42.5°	308.6	300.5	293.7	287.0	280.2	278.9	276.8	279.5	282.9	286.3	289.7
45°	275.5	268.7	264.7	262.0	261.3	263.3	267.4	271.4	277.5	281.6	284.3
47.5°	251.8	246.4	245.1	244.4	247.8	253.9	259.3	265.4	270.1	274.1	276.8
50°	231.6	226.9	226.2	225.5	230.2	235.6	240.4	248.5	251.8	254.5	256.6
52.5°	217.4	213.4	211.3	212.0	216.7	221.5	228.2	234.3	239.0	241.0	243.1
55°	205.9	204.6	199.9	201.9	206.6	212.7	219.4	226.2	230.9	234.3	237.7
57.5°	197.2	193.8	190.4	193.8	198.5	204.6	212.7	218.8	224.8	229.6	232.9
60°	187.7	185.0	182.3	185.7	190.4	196.5	202.6	210.7	218.1	222.8	226.2
62.5°	179.6	177.6	174.9	175.6	177.6	181.6	185.0	192.4	199.2	205.3	209.3
65°	168.1	167.4	163.4	164.1	165.4	169.5	172.2	178.9	185.7	191.1	194.5
67.5°	151.2	149.9	149.9	151.9	152.6	154.6	156.6	163.4	168.8	172.8	176.9
70°	134.4	133.7	133.7	135.0	134.4	136.4	139.1	145.2	151.9	156.0	160.0
72.5°	118.2	118.2	117.5	118.8	118.8	119.5	122.9	128.3	134.4	137.7	140.4
75°	104.0	103.3	103.3	103.3	104.0	104.0	107.4	112.1	118.2	120.2	124.2
77.5°	91.2	91.2	91.2	91.2	91.8	91.2	93.2	96.6	98.6	102.0	102.0
80°	80.3	79.7	80.3	81.0	81.0	80.3	80.3	81.0	81.7	81.7	81.7
82.5°	70.9	68.9	70.2	73.6	73.6	73.6	72.9	68.2	64.8	64.8	66.2
85°	56.7	56.7	57.4	62.1	62.8	60.1	62.8	56.0	49.3	47.3	48.6
87.5°	35.1	27.7	33.8	38.5	38.5	36.5	40.5	37.8	31.7	25.7	24.3
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: P158768  
 CATALOG NUMBER: VTS-E04-LED-E1-SLL-8030

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	0°
2.5°	1106.0	1106.6	1110.7	1112.7	1112.7	1115.4	1116.8	1120.8	1120.1	1120.1	1121.5	2.5°
5°	1104.6	1106.6	1110.7	1113.4	1114.7	1118.1	1120.8	1125.5	1124.9	1126.2	1126.9	5°
7.5°	1099.9	1105.3	1109.3	1114.7	1119.5	1122.2	1125.5	1129.6	1128.2	1128.9	1128.2	7.5°
10°	1095.8	1101.2	1109.3	1116.8	1123.5	1127.6	1129.6	1134.3	1133.6	1135.0	1135.0	10°
12.5°	1079.6	1089.1	1099.2	1110.7	1120.8	1131.6	1138.4	1148.5	1153.2	1159.3	1166.1	12.5°
15°	1038.4	1049.2	1065.5	1078.3	1097.9	1112.7	1132.3	1151.9	1169.4	1186.3	1205.9	15°
17.5°	997.9	1002.7	1015.5	1033.0	1050.6	1072.9	1096.5	1131.6	1163.4	1197.8	1235.6	17.5°
20°	923.0	931.1	939.9	960.8	981.7	1013.5	1042.5	1088.4	1135.0	1189.0	1247.1	20°
22.5°	830.5	838.6	848.0	871.7	897.3	929.7	964.9	1016.2	1078.3	1148.5	1226.2	22.5°
25°	730.6	735.3	742.7	766.3	781.9	824.4	866.9	920.3	987.8	1078.3	1168.8	25°
27.5°	620.5	629.3	635.4	646.2	681.9	718.4	763.0	820.4	902.1	994.6	1103.9	27.5°
30°	515.2	522.6	519.2	542.2	565.8	604.3	652.2	715.7	794.0	904.1	1030.3	30°
32.5°	411.9	417.3	415.2	431.4	455.1	493.6	538.8	607.7	690.7	808.2	945.3	32.5°
35°	339.6	341.0	348.4	355.8	376.1	407.1	445.6	505.7	590.8	698.8	844.0	35°
37.5°	305.9	308.6	313.3	323.4	338.3	360.6	392.3	438.9	511.8	607.0	736.6	37.5°
40°	295.7	297.8	300.5	307.2	321.4	341.0	369.3	408.5	461.8	542.2	647.5	40°
42.5°	291.0	291.0	291.0	295.1	305.9	326.8	359.2	397.7	444.3	505.0	590.1	42.5°
45°	284.3	284.3	283.6	285.6	293.0	314.0	349.1	392.3	442.3	500.3	573.9	45°
47.5°	276.8	276.2	274.1	274.1	278.9	299.8	336.2	382.8	437.5	504.4	583.4	47.5°
50°	256.6	256.6	256.6	258.6	262.6	281.6	320.7	370.0	432.8	507.1	598.2	50°
52.5°	245.1	245.8	247.8	247.8	251.8	271.4	312.6	367.3	435.5	517.2	617.1	52.5°
55°	239.7	241.7	243.7	243.7	247.1	267.4	309.9	369.3	445.6	538.1	649.5	55°
57.5°	235.0	237.0	238.3	238.3	241.0	258.6	302.5	366.0	451.7	558.4	689.4	57.5°
60°	226.2	227.5	228.2	228.2	228.9	243.7	285.6	349.7	438.2	557.0	711.0	60°
62.5°	210.0	212.7	213.4	214.0	214.0	228.2	264.0	323.4	409.2	536.8	704.9	62.5°
65°	197.8	199.2	201.2	202.6	205.3	214.7	243.1	291.7	371.4	496.3	671.1	65°
67.5°	178.9	181.0	183.0	185.7	188.4	194.5	216.7	255.9	320.0	427.4	595.5	67.5°
70°	162.0	162.7	164.7	168.1	168.8	172.2	188.4	215.4	262.0	343.0	479.4	70°
72.5°	141.1	142.5	145.2	149.2	149.2	151.9	161.4	175.6	205.3	262.0	353.8	72.5°
75°	122.9	124.2	126.3	126.3	122.9	123.6	130.3	140.4	162.7	197.2	257.9	75°
77.5°	102.0	104.7	106.7	102.6	101.3	103.3	106.7	114.1	130.3	156.6	193.8	77.5°
80°	84.4	85.7	86.4	87.1	85.7	87.8	90.5	95.2	106.0	126.3	153.3	80°
82.5°	67.5	68.9	70.9	73.6	73.6	81.0	81.7	81.7	87.8	100.6	120.2	82.5°
85°	50.0	52.7	55.4	58.7	59.4	63.5	61.4	60.8	62.8	74.9	83.0	85°
87.5°	25.7	27.7	29.0	31.7	28.4	29.7	29.7	27.7	24.3	30.4	33.8	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



NUMBER: P158768

NUMBER: VTS-E04-LED-E1-SLL-8030

**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2
1122.8	1121.5	1122.8	1122.8	1124.9	1123.5	1195.1
1128.2	1126.9	1128.2	1129.6	1131.6	1131.6	1210.6
1128.9	1128.9	1127.6	1130.9	1133.6	1136.3	1225.5
1137.0	1137.0	1138.4	1139.1	1145.1	1151.9	1249.8
1170.1	1173.5	1179.6	1181.6	1192.4	1199.8	1311.9
1220.7	1239.7	1251.8	1255.9	1265.3	1279.5	1416.6
1272.1	1303.8	1336.9	1357.1	1369.3	1386.2	1544.8
1310.5	1370.0	1426.7	1477.3	1506.4	1539.4	1724.4
1313.9	1408.5	1504.3	1598.2	1675.8	1737.3	1967.5
1281.5	1405.8	1538.1	1681.9	1815.6	1926.3	2247.0
1240.3	1392.9	1561.7	1745.4	1920.9	2084.3	2453.0
1188.3	1371.3	1565.8	1772.4	1978.3	2174.8	2570.5
1109.3	1307.2	1517.2	1745.4	1984.4	2223.4	2646.1
1008.1	1209.9	1425.3	1685.3	1956.0	2243.0	2709.5
904.8	1103.9	1335.5	1604.9	1910.8	2239.6	2735.2
795.4	993.2	1230.2	1519.2	1849.4	2208.6	2730.5
721.1	901.4	1133.6	1432.1	1781.2	2167.4	2698.7
677.9	835.9	1057.4	1352.4	1719.0	2118.1	2658.9
677.2	816.3	1016.8	1295.7	1656.2	2063.4	2604.9
700.9	828.5	1012.1	1271.4	1621.8	2023.6	2546.2
728.5	862.2	1037.1	1280.2	1621.1	2006.0	2505.0
772.4	919.6	1091.8	1318.0	1638.7	2003.3	2454.3
828.5	997.3	1190.4	1411.2	1706.9	2056.6	2457.7
885.9	1088.4	1319.3	1570.5	1841.3	2180.9	2564.4
906.8	1158.6	1450.3	1757.5	2042.5	2367.2	2784.5
888.6	1174.8	1530.0	1902.7	2238.3	2585.3	3047.1
821.0	1109.3	1497.6	1943.9	2351.0	2739.9	3309.8
675.9	946.6	1350.4	1851.4	2342.2	2771.7	3404.3
495.6	733.9	1097.9	1573.2	2082.3	2573.2	3262.5
357.9	519.2	792.7	1185.0	1646.1	2072.2	2736.6
256.6	359.9	514.5	778.5	1121.5	1442.9	1950.6
184.3	244.4	320.7	467.2	683.3	885.9	1225.5
135.7	167.4	210.7	290.3	402.4	515.8	738.0
92.5	98.6	126.9	171.5	264.0	379.5	501.0
35.1	39.8	46.6	70.2	118.2	135.7	95.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)