

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: P158765

Luminaire Tested: **VTS-F03-LED-E1-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158765
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-F03-LED-E1-SLL
Description: VENTUS LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

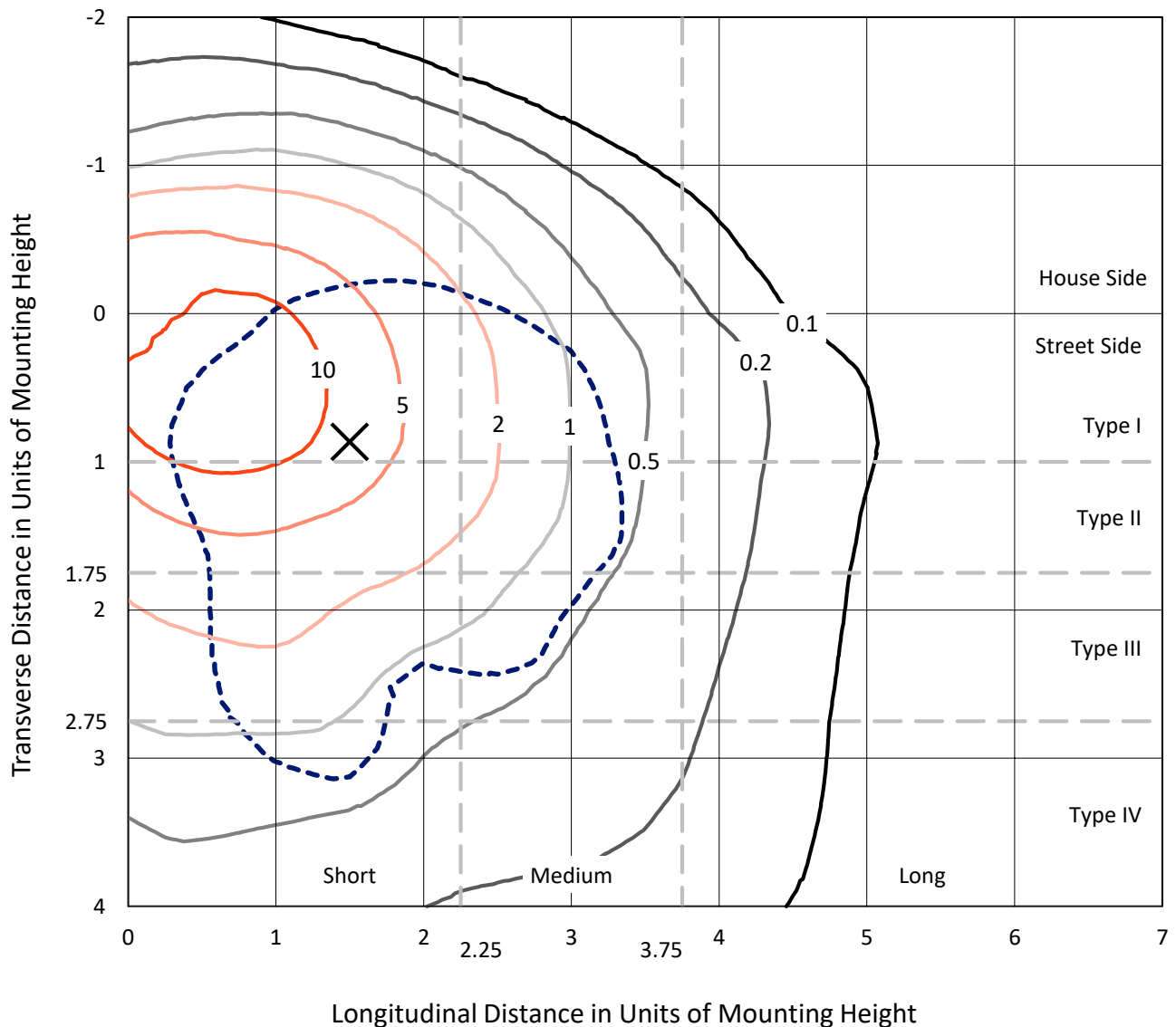
Lumens per Lamp: N/A
Luminaire Lumens: 6655.3 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 78.3
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

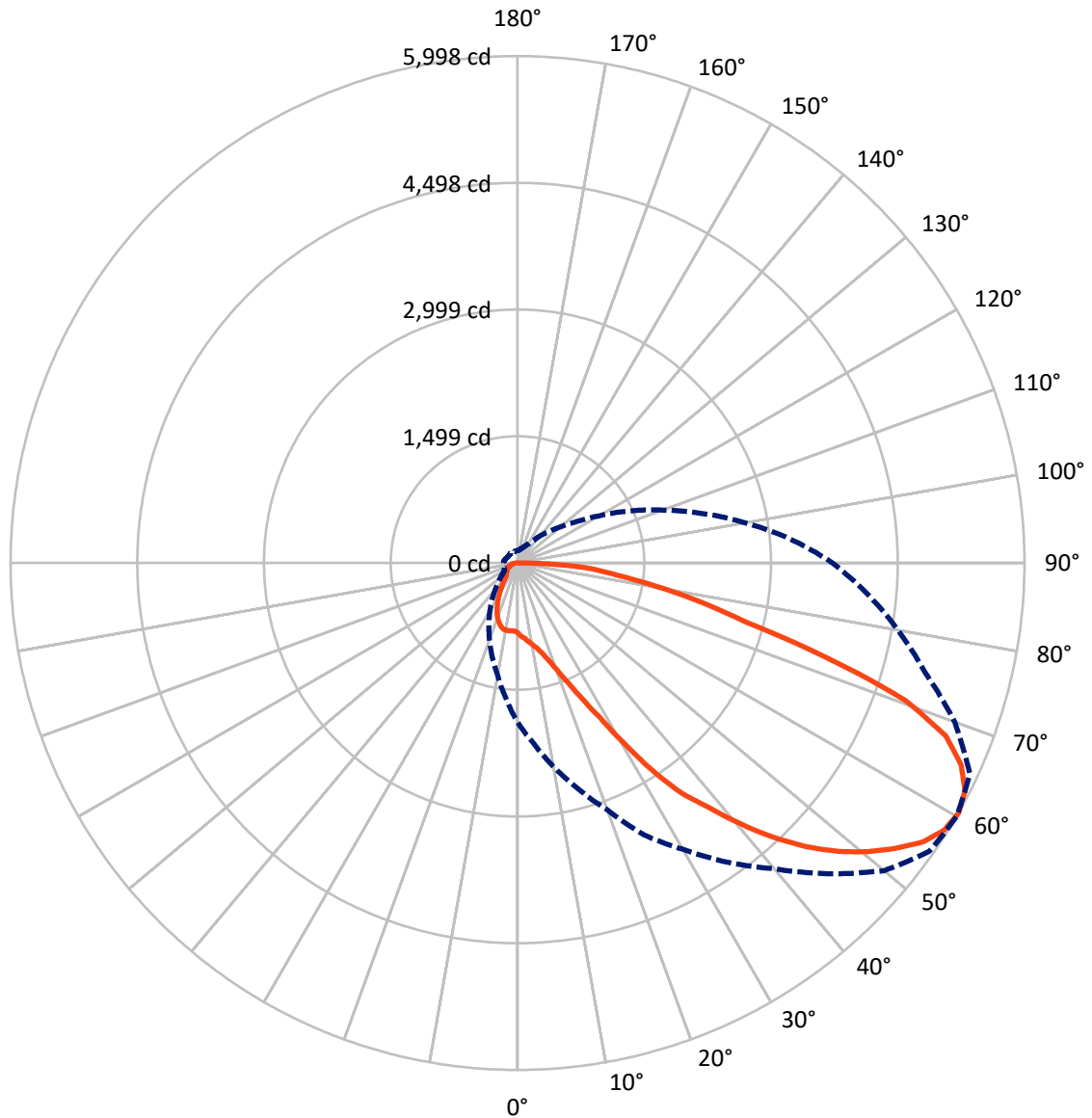
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.1 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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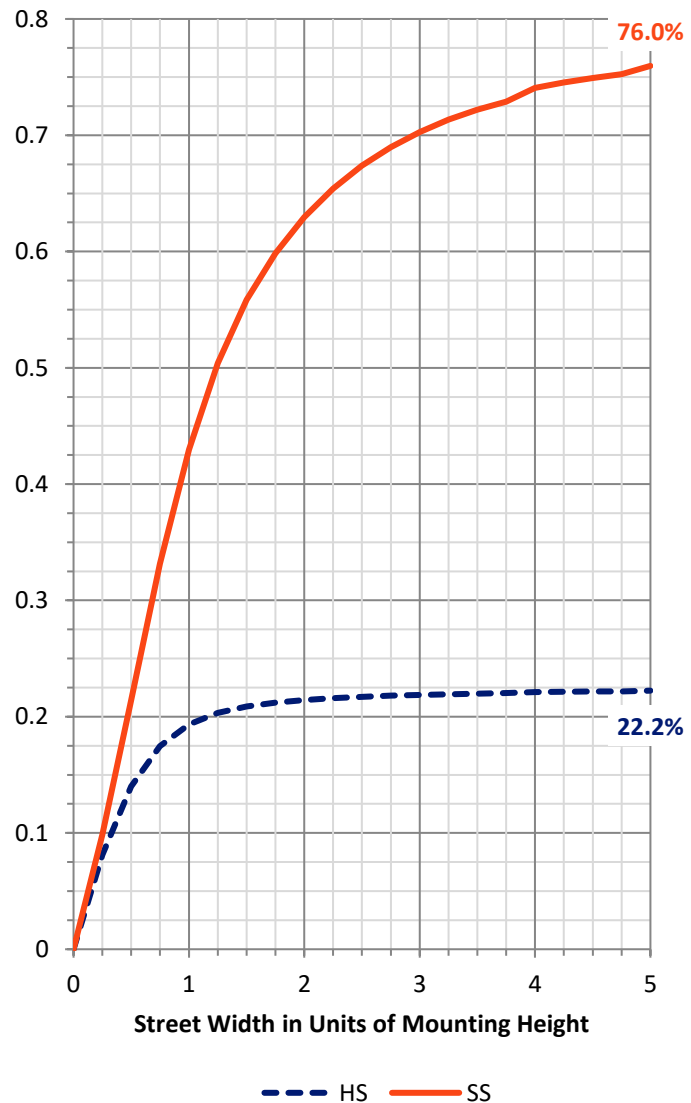
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1498.6	0.0	1498.6
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	5156.7	0.0	5156.7
	% Fixture	77.5	0.0	77.5
Total	Lumens	6655.3	0.0	6655.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	1.2
10°-20°	263.6	4.0
20°-30°	500.3	7.5
30°-40°	787.9	11.8
40°-50°	1099.7	16.5
50°-60°	1360.1	20.4
60°-70°	1409.8	21.2
70°-80°	887.1	13.3
80°-90°	265.2	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°	6655.3	100.0
0°-180°	6655.3	100.0



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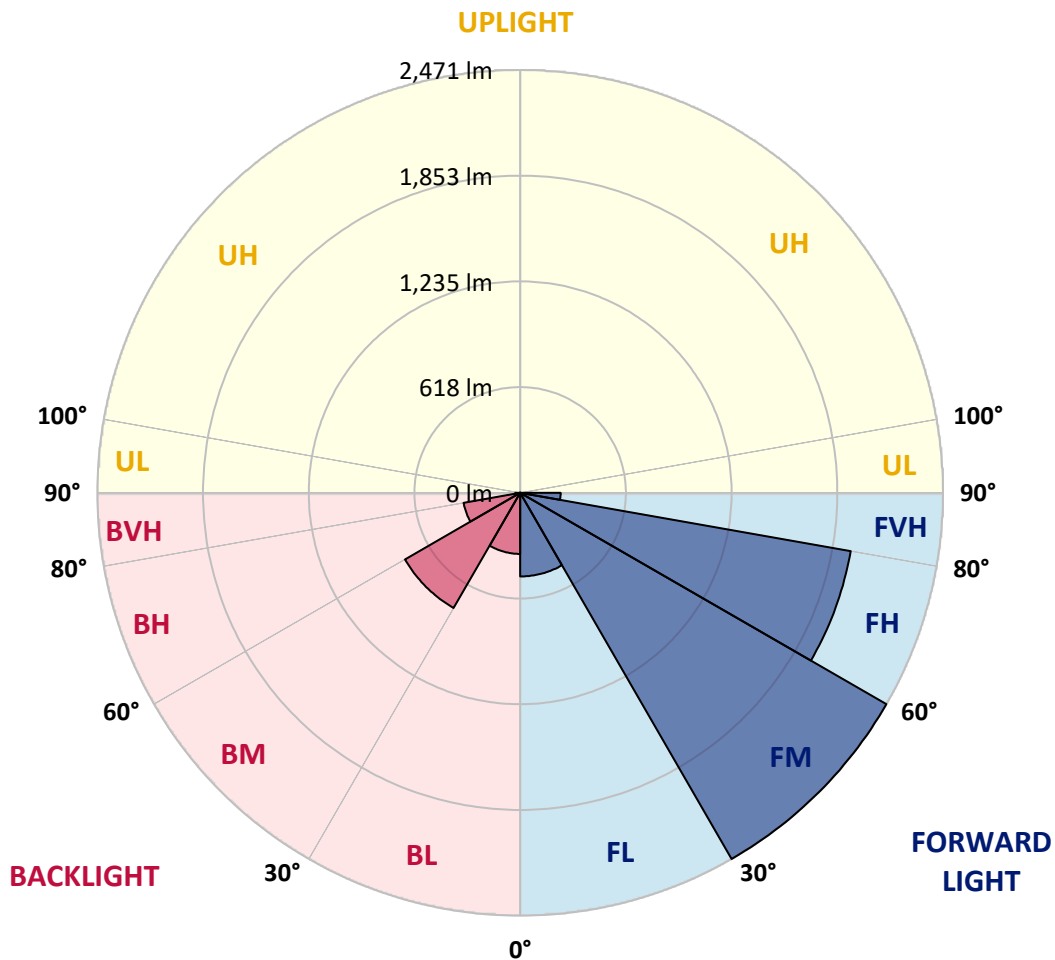
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	488.6	7.3			
FM	(30°-60°)	2470.5	37.1			
FH	(60°-80°)	1961.2	29.5			G2/5000
FVH	(80°-90°)	236.3	3.6			G3/500
BL	(0°-30°)	357.0	5.4	B1/500		
BM	(30°-60°)	777.1	11.7	B1/1000		
BH	(60°-80°)	335.6	5.0	B1/500		G1/500
BVH	(80°-90°)	28.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7
2.5°	876.7	875.7	875.7	875.7	875.2	874.2	875.7	875.2	872.7	871.3	872.7
5°	888.1	888.6	890.1	890.6	890.6	892.1	896.0	896.5	896.0	897.0	899.5
7.5°	899.0	901.5	903.0	905.4	908.4	910.9	917.8	924.8	929.2	932.7	933.7
10°	916.8	920.8	925.2	931.7	938.6	951.0	956.9	963.9	968.3	975.3	976.8
12.5°	962.4	967.4	970.3	980.2	989.1	1001.0	1009.5	1011.4	1021.8	1027.8	1034.7
15°	1039.2	1046.6	1057.0	1062.9	1072.9	1083.3	1090.7	1100.6	1102.1	1110.0	1115.4
17.5°	1133.3	1143.7	1165.0	1179.3	1192.2	1202.6	1217.5	1228.9	1231.4	1240.3	1228.9
20°	1265.0	1290.3	1293.8	1322.5	1333.9	1354.7	1384.4	1389.9	1404.2	1389.9	1381.4
22.5°	1443.3	1483.0	1493.9	1521.6	1535.5	1567.2	1576.1	1605.3	1615.2	1604.3	1581.5
25°	1648.4	1709.8	1741.5	1784.1	1791.1	1855.9	1862.9	1897.1	1878.7	1852.5	1853.0
27.5°	1799.5	1904.0	1985.7	2058.5	2109.5	2182.9	2239.8	2255.7	2238.3	2204.2	2192.3
30°	1885.7	2004.0	2121.4	2222.0	2340.9	2452.8	2569.2	2627.2	2637.1	2654.9	2583.1
32.5°	1941.1	2093.2	2232.9	2357.2	2479.1	2623.2	2779.2	2928.3	3053.6	3148.2	3103.6
35°	1987.7	2175.4	2354.2	2504.8	2648.9	2806.0	2963.5	3139.3	3346.8	3468.2	3493.5
37.5°	2006.5	2235.9	2454.8	2648.0	2850.5	3027.4	3183.9	3340.4	3558.3	3774.8	3841.7
40°	2003.1	2265.6	2514.7	2757.4	3005.6	3226.5	3409.7	3595.0	3850.1	4103.2	4212.2
42.5°	1979.8	2270.0	2552.9	2830.2	3113.1	3406.8	3641.1	3854.5	4099.2	4423.7	4577.7
45°	1950.6	2254.7	2560.8	2867.4	3192.8	3532.6	3828.8	4092.8	4379.6	4700.0	4886.3
47.5°	1910.9	2230.4	2550.9	2880.3	3228.5	3613.3	3961.5	4279.0	4594.5	4963.6	5199.8
50°	1867.8	2195.7	2530.6	2870.8	3237.4	3657.4	4037.3	4398.9	4767.4	5165.6	5464.3
52.5°	1837.6	2158.6	2512.2	2851.5	3228.5	3670.8	4065.0	4463.3	4873.4	5285.0	5641.6
55°	1800.5	2109.1	2463.2	2806.5	3195.8	3663.3	4062.1	4485.6	4902.6	5331.1	5738.2
57.5°	1802.9	2086.3	2421.6	2752.5	3128.9	3594.5	4006.1	4463.3	4856.6	5301.4	5741.7
60°	1881.2	2135.3	2443.4	2763.4	3109.1	3550.9	3911.0	4319.6	4721.3	5198.8	5661.4
62.5°	2042.7	2275.5	2555.3	2872.3	3220.5	3638.1	3867.9	4080.9	4437.5	5010.1	5524.7
65°	2235.4	2445.4	2688.1	2989.7	3380.0	3779.7	3843.6	3886.7	4067.0	4643.1	5268.2
67.5°	2428.0	2615.8	2806.5	3056.6	3470.7	3820.4	3744.6	3642.1	3739.1	4216.6	4763.9
70°	2497.4	2746.5	2871.8	3043.7	3401.8	3725.8	3584.6	3326.5	3360.2	3794.1	4194.3
72.5°	2393.4	2748.5	2790.1	2854.0	3095.2	3399.8	3250.8	2918.9	2912.0	3243.3	3566.8
75°	2007.5	2507.3	2506.8	2483.0	2537.5	2710.9	2633.6	2433.5	2518.2	2779.2	2885.7
77.5°	1431.0	1956.5	1981.3	1821.3	1817.3	1895.6	1942.1	2174.9	2482.0	2628.6	2595.0
80°	899.0	1320.0	1426.5	1228.9	1186.8	1297.7	1585.5	1924.3	2302.2	2434.0	2320.6
82.5°	541.4	850.5	1077.3	965.4	955.5	1157.6	1475.5	1607.3	1720.7	1860.9	1671.2
85°	367.5	566.6	737.0	759.3	846.0	1055.0	1193.2	1134.8	1137.7	1101.1	1003.0
87.5°	70.3	154.5	252.6	308.1	341.8	459.2	499.3	452.2	477.5	349.2	381.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7
2.5°	870.3	870.3	870.3	867.8	868.3	864.8	863.3	863.3	861.8	861.8	861.4
5°	897.5	894.5	896.0	895.5	895.5	890.6	888.1	888.1	881.7	882.2	880.2
7.5°	938.1	937.6	939.1	936.1	932.2	928.2	924.3	922.3	913.4	907.9	904.4
10°	984.2	983.7	985.2	984.7	977.8	970.3	959.4	951.5	940.6	932.2	923.8
12.5°	1034.7	1034.2	1033.2	1028.8	1021.3	1009.5	995.6	982.2	965.9	955.0	942.6
15°	1113.5	1112.0	1106.0	1099.6	1091.7	1073.3	1049.1	1029.8	1008.0	989.1	968.8
17.5°	1229.9	1217.5	1216.5	1202.1	1180.8	1156.6	1133.8	1101.6	1070.4	1042.1	1014.4
20°	1390.3	1361.6	1353.7	1337.4	1309.1	1283.9	1234.3	1191.2	1148.6	1110.0	1074.8
22.5°	1565.2	1544.4	1525.1	1498.3	1459.7	1423.0	1360.1	1306.1	1251.7	1202.1	1163.0
25°	1809.4	1773.2	1738.6	1696.0	1642.5	1598.9	1527.1	1472.6	1401.2	1356.2	1299.7
27.5°	2124.9	2063.0	2004.5	1967.9	1873.8	1810.4	1718.7	1648.4	1562.2	1501.3	1434.4
30°	2535.5	2463.7	2377.0	2250.2	2138.3	2012.5	1899.0	1808.9	1717.3	1632.1	1554.8
32.5°	3044.7	2917.9	2780.7	2579.6	2395.8	2216.5	2065.5	1954.5	1860.9	1754.9	1645.9
35°	3475.1	3344.4	3149.7	2894.1	2667.3	2462.2	2281.4	2129.9	2007.5	1873.3	1729.1
37.5°	3814.9	3665.8	3483.1	3211.6	2971.9	2738.6	2548.9	2355.7	2195.2	2010.5	1828.2
40°	4204.2	4054.6	3853.6	3572.2	3288.4	3035.3	2812.9	2613.3	2416.1	2190.8	1956.5
42.5°	4543.5	4435.5	4232.0	3941.2	3626.7	3344.9	3101.7	2873.3	2615.8	2363.6	2086.3
45°	4897.2	4787.2	4594.0	4289.9	3955.6	3641.6	3350.8	3105.1	2801.0	2500.8	2183.3
47.5°	5209.7	5096.8	4901.6	4599.5	4244.4	3913.5	3593.5	3296.3	2943.2	2598.4	2246.7
50°	5507.9	5369.7	5190.9	4889.7	4510.3	4156.7	3809.5	3428.1	3053.6	2666.8	2289.8
52.5°	5781.8	5606.0	5436.6	5126.5	4716.4	4346.9	3959.5	3540.0	3121.5	2720.8	2319.1
55°	5937.3	5823.9	5621.3	5316.7	4863.0	4477.6	4054.6	3618.8	3188.8	2758.9	2331.4
57.5°	5985.4	5957.6	5787.8	5426.7	4949.2	4549.5	4119.0	3681.2	3233.9	2769.8	2314.1
60°	5947.2	5997.8	5904.6	5503.9	4988.3	4570.8	4150.7	3725.8	3241.8	2735.1	2261.6
62.5°	5824.9	5939.8	5927.9	5529.7	4968.0	4544.0	4147.3	3703.0	3167.5	2627.2	2143.7
65°	5623.8	5768.4	5819.5	5434.1	4853.6	4446.4	4059.1	3559.8	2961.0	2416.1	1946.1
67.5°	5245.4	5464.3	5513.8	5121.1	4554.4	4176.5	3805.0	3262.6	2578.6	2089.7	1637.5
70°	4487.1	4869.9	4936.8	4524.7	4026.9	3695.0	3380.0	2791.6	2147.2	1676.1	1256.6
72.5°	3582.1	3822.8	3959.5	3675.7	3305.2	3064.5	2825.8	2141.7	1620.2	1236.8	864.8
75°	2800.5	2786.1	2908.5	2719.8	2501.8	2389.4	2210.1	1494.4	1085.2	819.3	547.3
77.5°	2394.4	2210.1	2070.9	1938.2	1808.9	1773.2	1601.4	927.2	670.7	490.9	327.4
80°	1990.2	1653.9	1399.8	1213.0	1167.0	1237.3	1048.1	546.8	397.2	281.8	205.6
82.5°	1422.0	1189.7	968.3	850.0	771.2	883.1	618.2	303.6	215.5	168.9	136.2
85°	921.8	881.2	871.8	833.1	737.5	696.4	469.6	261.5	161.5	105.0	84.7
87.5°	354.6	454.7	524.5	562.2	607.8	541.4	244.7	90.1	88.7	54.5	41.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7
2.5°	857.9	855.9	855.4	853.9	852.9	852.9	850.5	805.4	804.9	804.9	804.4
5°	876.2	873.7	871.3	870.8	868.8	868.8	866.3	821.2	821.2	821.2	820.2
7.5°	901.0	896.0	893.1	891.6	888.6	890.1	892.1	846.5	847.0	846.5	847.5
10°	918.8	915.8	912.4	911.4	909.4	910.9	913.9	868.8	870.3	870.8	871.8
12.5°	936.1	931.2	926.7	925.2	924.3	928.2	931.7	888.1	889.6	891.1	891.1
15°	957.4	949.0	943.1	939.6	937.6	941.6	946.5	903.5	903.9	905.4	904.9
17.5°	993.6	981.2	967.4	964.9	958.4	959.9	960.9	912.9	910.9	907.4	901.5
20°	1049.6	1030.8	1011.9	1004.0	991.1	985.7	974.8	913.4	901.0	890.6	881.7
22.5°	1129.8	1102.1	1081.8	1068.4	1042.1	1023.8	994.1	910.9	887.6	869.8	855.9
25°	1259.6	1226.4	1195.2	1161.5	1120.4	1083.7	1040.2	932.7	896.5	865.8	839.1
27.5°	1385.9	1333.4	1285.3	1234.8	1176.9	1121.9	1060.5	939.6	898.5	858.9	815.3
30°	1480.5	1404.2	1331.4	1257.6	1181.8	1110.5	1041.2	915.8	866.8	822.2	776.2
32.5°	1538.0	1438.9	1344.3	1252.7	1163.5	1083.3	1005.5	874.7	820.7	768.2	719.2
35°	1592.4	1469.6	1352.2	1244.2	1142.2	1053.0	969.3	826.7	762.3	706.3	644.4
37.5°	1659.8	1501.8	1357.2	1228.9	1111.0	1009.0	916.8	766.3	701.9	633.0	574.6
40°	1740.5	1535.0	1352.2	1198.2	1062.5	951.0	853.4	702.9	631.0	564.2	506.7
42.5°	1817.3	1564.2	1339.3	1157.1	1009.5	890.6	795.5	646.4	574.6	506.2	449.3
45°	1874.3	1589.0	1332.9	1128.3	968.8	849.5	744.5	600.8	525.0	456.2	398.2
47.5°	1913.9	1603.8	1329.9	1112.5	940.6	806.9	697.9	555.2	475.5	406.2	349.7
50°	1934.7	1603.3	1322.5	1095.1	899.0	755.9	649.9	509.2	429.9	362.1	310.6
52.5°	1940.1	1594.4	1306.6	1063.4	848.5	704.8	598.3	461.1	389.8	324.9	272.9
55°	1927.8	1572.6	1273.5	1010.4	794.5	650.8	551.3	423.5	350.7	289.3	248.6
57.5°	1892.6	1534.0	1211.0	937.6	737.5	600.8	497.3	377.9	308.1	256.6	222.9
60°	1827.2	1452.3	1113.5	851.4	665.2	524.5	423.0	318.5	263.0	224.4	197.1
62.5°	1706.4	1324.0	976.3	732.6	561.2	425.5	337.8	254.1	212.5	187.2	170.4
65°	1511.7	1130.8	817.3	577.0	426.5	309.6	251.1	191.2	161.0	145.6	140.7
67.5°	1233.8	873.2	594.4	400.7	288.8	216.9	174.8	139.7	125.3	119.4	117.4
70°	897.0	594.9	384.9	253.1	190.7	151.6	132.2	112.4	104.5	103.0	103.0
72.5°	563.2	361.6	235.8	173.4	144.6	122.8	112.9	99.1	96.1	95.1	93.6
75°	330.4	219.4	166.9	142.2	123.8	110.0	101.5	90.1	88.2	87.7	86.2
77.5°	210.5	158.0	134.7	121.4	111.9	99.6	92.1	80.2	79.7	79.3	78.8
80°	151.1	131.3	117.9	107.5	98.1	86.7	82.2	72.8	71.8	71.3	72.3
82.5°	114.4	108.5	103.0	95.1	82.2	73.8	70.3	63.9	64.4	61.9	61.4
85°	78.8	77.8	77.3	73.8	64.4	57.0	54.5	51.0	53.5	51.0	48.0
87.5°	38.6	38.1	35.2	41.6	38.6	30.7	27.7	30.7	34.2	33.2	30.7
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: P158765

CATALOG NUMBER: VTS-F03-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7
2.5°	802.4	800.4	801.9	800.9	800.9	800.4	801.4	799.9	798.9	799.9	800.4
5°	818.3	815.8	816.3	812.8	814.3	810.8	811.8	809.3	806.9	805.9	805.9
7.5°	845.0	842.5	839.6	839.1	833.6	831.6	828.2	826.2	824.7	821.2	819.3
10°	869.3	865.3	861.8	861.4	855.9	851.0	846.5	842.5	840.1	835.1	832.6
12.5°	889.1	885.1	879.7	876.7	871.3	865.3	862.3	856.4	852.9	847.5	843.0
15°	900.5	893.5	885.6	880.2	872.2	865.8	861.4	856.9	853.4	846.5	840.1
17.5°	895.0	883.6	872.7	862.8	851.9	846.0	839.6	834.1	833.1	825.2	815.3
20°	872.2	858.9	844.5	831.1	816.8	808.4	800.4	792.0	789.5	780.1	767.2
22.5°	844.5	829.2	812.8	796.5	778.1	766.3	754.4	744.0	735.5	721.7	703.3
25°	816.3	793.5	769.7	748.9	727.6	712.8	700.4	689.0	679.1	656.8	638.0
27.5°	779.1	743.5	719.2	695.4	669.7	650.3	636.5	620.6	609.7	584.0	564.2
30°	731.6	695.9	661.2	637.5	611.7	590.9	573.1	550.3	534.4	515.6	497.3
32.5°	671.6	636.0	600.8	574.1	552.8	527.0	504.7	482.9	464.6	446.3	431.9
35°	598.8	564.2	531.0	504.2	480.5	460.1	438.8	420.0	399.2	379.4	371.0
37.5°	522.1	484.9	448.3	425.0	406.2	391.8	372.0	356.6	337.8	325.9	316.0
40°	455.2	415.6	380.9	361.1	346.2	329.9	313.5	301.6	288.3	276.4	269.0
42.5°	398.7	361.6	331.9	315.0	297.2	279.4	267.0	257.1	248.6	239.7	230.8
45°	346.7	311.1	286.3	265.5	250.6	236.3	227.8	223.4	218.4	213.0	207.0
47.5°	303.1	272.4	248.2	228.8	213.5	203.6	199.6	198.1	196.1	191.7	188.7
50°	269.9	244.7	219.9	202.6	189.7	184.8	180.3	178.8	176.3	174.8	172.9
52.5°	242.2	215.5	194.7	178.8	170.9	168.9	166.9	164.9	164.4	163.5	162.5
55°	219.4	196.1	176.8	164.9	161.0	159.5	159.0	157.0	156.5	156.5	155.0
57.5°	199.1	179.3	162.0	154.5	152.1	150.6	149.6	148.6	148.6	149.6	149.1
60°	178.3	161.5	151.1	147.1	145.6	143.1	140.7	139.7	140.2	142.7	142.7
62.5°	158.0	145.6	139.2	137.7	136.2	134.2	131.3	130.3	131.3	134.2	135.7
65°	135.7	130.3	128.3	127.3	126.3	124.8	122.8	121.8	122.3	123.8	125.8
67.5°	115.4	114.9	114.9	115.4	114.9	114.4	113.4	111.9	111.4	111.4	112.4
70°	103.0	103.0	104.5	104.5	104.0	104.0	102.5	101.0	100.1	99.1	99.6
72.5°	93.6	93.6	94.1	94.6	94.1	94.1	92.1	91.1	88.7	88.2	87.2
75°	85.7	84.7	84.7	84.2	83.7	84.2	82.2	79.7	78.8	78.3	77.3
77.5°	77.8	75.8	74.8	73.8	74.3	73.8	72.3	70.8	69.3	68.8	68.4
80°	68.8	65.9	64.4	61.9	63.4	63.9	62.9	61.4	60.9	60.4	59.9
82.5°	57.0	54.0	52.0	50.5	49.5	50.5	52.0	55.5	54.5	54.0	53.0
85°	44.6	39.6	37.1	37.6	35.2	35.7	40.1	42.1	42.1	43.1	42.1
87.5°	25.3	24.3	18.3	16.8	17.8	21.3	23.8	26.3	26.3	24.8	27.7
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°	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7
2.5°	800.4	801.4	801.9	803.9	804.9	805.4	805.9	806.9	807.4	806.9	809.3
5°	804.4	804.4	803.4	804.9	805.4	805.4	804.4	805.4	805.4	805.4	807.9
7.5°	814.8	811.8	810.3	808.4	806.9	804.9	802.4	802.4	801.9	802.4	803.9
10°	825.7	821.2	815.8	810.8	806.4	802.9	798.4	797.0	796.5	796.0	799.9
12.5°	834.1	826.2	817.8	809.3	800.4	794.5	787.1	782.6	782.1	782.1	787.1
15°	828.2	815.3	798.9	784.1	776.2	767.7	759.3	753.9	753.4	754.4	757.3
17.5°	798.4	777.6	763.3	748.9	738.5	731.6	726.1	725.1	727.1	725.1	729.1
20°	747.9	725.6	715.7	704.3	700.4	695.4	687.5	680.6	680.6	671.6	674.1
22.5°	682.5	670.2	657.3	648.4	645.4	637.0	628.6	619.1	618.2	607.3	605.8
25°	614.2	601.8	591.4	589.4	580.5	569.1	561.2	550.3	547.8	536.9	535.4
27.5°	544.4	534.4	524.0	518.1	513.1	500.8	493.8	481.0	476.0	464.1	462.6
30°	478.0	471.0	458.7	453.7	444.3	429.9	415.1	407.1	403.2	390.8	386.8
32.5°	415.6	404.7	395.3	389.3	377.4	361.1	347.7	336.3	328.9	314.0	310.1
35°	356.1	345.2	340.8	325.4	315.0	304.1	285.8	278.9	265.5	254.1	250.1
37.5°	303.6	293.2	287.3	274.4	264.0	253.1	242.2	233.3	226.9	224.4	224.4
40°	258.6	253.1	245.7	236.3	229.3	221.4	215.5	212.5	212.0	213.0	215.5
42.5°	226.4	220.4	215.5	210.5	205.6	204.6	203.1	205.1	207.5	210.0	212.5
45°	202.1	197.1	194.2	192.2	191.7	193.2	196.1	199.1	203.6	206.5	208.5
47.5°	184.8	180.8	179.8	179.3	181.8	186.2	190.2	194.7	198.1	201.1	203.1
50°	169.9	166.4	165.9	165.4	168.9	172.9	176.3	182.3	184.8	186.7	188.2
52.5°	159.5	156.5	155.0	155.5	159.0	162.5	167.4	171.9	175.3	176.8	178.3
55°	151.1	150.1	146.6	148.1	151.6	156.0	161.0	165.9	169.4	171.9	174.4
57.5°	144.6	142.2	139.7	142.2	145.6	150.1	156.0	160.5	164.9	168.4	170.9
60°	137.7	135.7	133.7	136.2	139.7	144.1	148.6	154.5	160.0	163.5	165.9
62.5°	131.8	130.3	128.3	128.8	130.3	133.2	135.7	141.2	146.1	150.6	153.5
65°	123.3	122.8	119.9	120.4	121.4	124.3	126.3	131.3	136.2	140.2	142.7
67.5°	111.0	110.0	110.0	111.4	111.9	113.4	114.9	119.9	123.8	126.8	129.8
70°	98.6	98.1	98.1	99.1	98.6	100.1	102.0	106.5	111.4	114.4	117.4
72.5°	86.7	86.7	86.2	87.2	87.2	87.7	90.1	94.1	98.6	101.0	103.0
75°	76.3	75.8	75.8	75.8	76.3	76.3	78.8	82.2	86.7	88.2	91.1
77.5°	66.9	66.9	66.9	66.9	67.4	66.9	68.4	70.8	72.3	74.8	74.8
80°	58.9	58.4	58.9	59.4	59.4	58.9	58.9	59.4	59.9	59.9	59.9
82.5°	52.0	50.5	51.5	54.0	54.0	54.0	53.5	50.0	47.6	47.6	48.5
85°	41.6	41.6	42.1	45.6	46.1	44.1	46.1	41.1	36.2	34.7	35.7
87.5°	25.8	20.3	24.8	28.2	28.2	26.7	29.7	27.7	23.3	18.8	17.8
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°	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	827.7	0°
2.5°	811.3	811.8	814.8	816.3	816.3	818.3	819.3	822.2	821.7	821.7	822.7	2.5°
5°	810.3	811.8	814.8	816.8	817.8	820.2	822.2	825.7	825.2	826.2	826.7	5°
7.5°	806.9	810.8	813.8	817.8	821.2	823.2	825.7	828.7	827.7	828.2	827.7	7.5°
10°	803.9	807.9	813.8	819.3	824.2	827.2	828.7	832.1	831.6	832.6	832.6	10°
12.5°	792.0	798.9	806.4	814.8	822.2	830.1	835.1	842.5	846.0	850.5	855.4	12.5°
15°	761.8	769.7	781.6	791.0	805.4	816.3	830.6	845.0	857.9	870.3	884.6	15°
17.5°	732.1	735.5	745.0	757.8	770.7	787.1	804.4	830.1	853.4	878.7	906.4	17.5°
20°	677.1	683.0	689.5	704.8	720.2	743.5	764.8	798.4	832.6	872.2	914.8	20°
22.5°	609.2	615.2	622.1	639.5	658.3	682.0	707.8	745.4	791.0	842.5	899.5	22.5°
25°	535.9	539.4	544.8	562.2	573.6	604.8	636.0	675.1	724.6	791.0	857.4	25°
27.5°	455.2	461.6	466.1	474.0	500.3	527.0	559.7	601.8	661.7	729.6	809.8	27.5°
30°	377.9	383.4	380.9	397.7	415.1	443.3	478.5	525.0	582.5	663.2	755.9	30°
32.5°	302.1	306.1	304.6	316.5	333.8	362.1	395.3	445.8	506.7	592.9	693.4	32.5°
35°	249.1	250.1	255.6	261.0	275.9	298.7	326.9	371.0	433.4	512.7	619.1	35°
37.5°	224.4	226.4	229.8	237.3	248.2	264.5	287.8	322.0	375.4	445.3	540.4	37.5°
40°	216.9	218.4	220.4	225.4	235.8	250.1	270.9	299.7	338.8	397.7	475.0	40°
42.5°	213.5	213.5	213.5	216.5	224.4	239.7	263.5	291.7	325.9	370.5	432.9	42.5°
45°	208.5	208.5	208.0	209.5	215.0	230.3	256.1	287.8	324.4	367.0	421.0	45°
47.5°	203.1	202.6	201.1	201.1	204.6	219.9	246.7	280.8	321.0	370.0	428.0	47.5°
50°	188.2	188.2	188.2	189.7	192.7	206.5	235.3	271.4	317.5	372.0	438.8	50°
52.5°	179.8	180.3	181.8	181.8	184.8	199.1	229.3	269.5	319.5	379.4	452.7	52.5°
55°	175.8	177.3	178.8	178.8	181.3	196.1	227.3	270.9	326.9	394.8	476.5	55°
57.5°	172.4	173.9	174.8	174.8	176.8	189.7	221.9	268.5	331.4	409.6	505.7	57.5°
60°	165.9	166.9	167.4	167.4	167.9	178.8	209.5	256.6	321.5	408.6	521.6	60°
62.5°	154.0	156.0	156.5	157.0	157.0	167.4	193.7	237.3	300.2	393.8	517.1	62.5°
65°	145.1	146.1	147.6	148.6	150.6	157.5	178.3	214.0	272.4	364.1	492.3	65°
67.5°	131.3	132.7	134.2	136.2	138.2	142.7	159.0	187.7	234.8	313.5	436.9	67.5°
70°	118.9	119.4	120.9	123.3	123.8	126.3	138.2	158.0	192.2	251.6	351.7	70°
72.5°	103.5	104.5	106.5	109.5	109.5	111.4	118.4	128.8	150.6	192.2	259.5	72.5°
75°	90.1	91.1	92.6	92.6	90.1	90.6	95.6	103.0	119.4	144.6	189.2	75°
77.5°	74.8	76.8	78.3	75.3	74.3	75.8	78.3	83.7	95.6	114.9	142.2	77.5°
80°	61.9	62.9	63.4	63.9	62.9	64.4	66.4	69.8	77.8	92.6	112.4	80°
82.5°	49.5	50.5	52.0	54.0	54.0	59.4	59.9	59.9	64.4	73.8	88.2	82.5°
85°	36.7	38.6	40.6	43.1	43.6	46.6	45.1	44.6	46.1	55.0	60.9	85°
87.5°	18.8	20.3	21.3	23.3	20.8	21.8	21.8	20.3	17.8	22.3	24.8	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°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
827.7	827.7	827.7	827.7	827.7	827.7	827.7
823.7	822.7	823.7	823.7	825.2	824.2	876.7
827.7	826.7	827.7	828.7	830.1	830.1	888.1
828.2	828.2	827.2	829.7	831.6	833.6	899.0
834.1	834.1	835.1	835.6	840.1	845.0	916.8
858.4	860.9	865.3	866.8	874.7	880.2	962.4
895.5	909.4	918.3	921.3	928.2	938.6	1039.2
933.2	956.5	980.7	995.6	1004.5	1016.9	1133.3
961.4	1005.0	1046.6	1083.7	1105.0	1129.3	1265.0
963.9	1033.2	1103.6	1172.4	1229.4	1274.4	1443.3
940.1	1031.2	1128.3	1233.8	1331.9	1413.1	1648.4
909.9	1021.8	1145.7	1280.4	1409.2	1529.0	1799.5
871.8	1006.0	1148.6	1300.2	1451.3	1595.4	1885.7
813.8	958.9	1113.0	1280.4	1455.7	1631.1	1941.1
739.5	887.6	1045.6	1236.3	1434.9	1645.4	1987.7
663.7	809.8	979.7	1177.4	1401.7	1643.0	2006.5
583.5	728.6	902.5	1114.5	1356.7	1620.2	2003.1
529.0	661.2	831.6	1050.6	1306.6	1590.0	1979.8
497.3	613.2	775.7	992.1	1261.1	1553.8	1950.6
496.8	598.8	745.9	950.5	1215.0	1513.7	1910.9
514.1	607.8	742.5	932.7	1189.7	1484.5	1867.8
534.4	632.5	760.8	939.1	1189.3	1471.6	1837.6
566.6	674.6	800.9	966.9	1202.1	1469.6	1800.5
607.8	731.6	873.2	1035.2	1252.2	1508.7	1802.9
649.9	798.4	967.8	1152.1	1350.7	1599.9	1881.2
665.2	850.0	1063.9	1289.3	1498.3	1736.6	2042.7
651.8	861.8	1122.4	1395.8	1642.0	1896.6	2235.4
602.3	813.8	1098.6	1426.0	1724.7	2010.0	2428.0
495.8	694.4	990.6	1358.2	1718.2	2033.3	2497.4
363.6	538.4	805.4	1154.1	1527.6	1887.6	2393.4
262.5	380.9	581.5	869.3	1207.6	1520.1	2007.5
188.2	264.0	377.4	571.1	822.7	1058.5	1431.0
135.2	179.3	235.3	342.8	501.3	649.9	899.0
99.6	122.8	154.5	213.0	295.2	378.4	541.4
67.9	72.3	93.1	125.8	193.7	278.4	367.5
25.8	29.2	34.2	51.5	86.7	99.6	70.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)