

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: P159053

Luminaire Tested: **VTS-F10-LED-E1-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159053
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-F10-LED-E1-SLR-8030
Description: VENTUS LED SITE LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (70) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

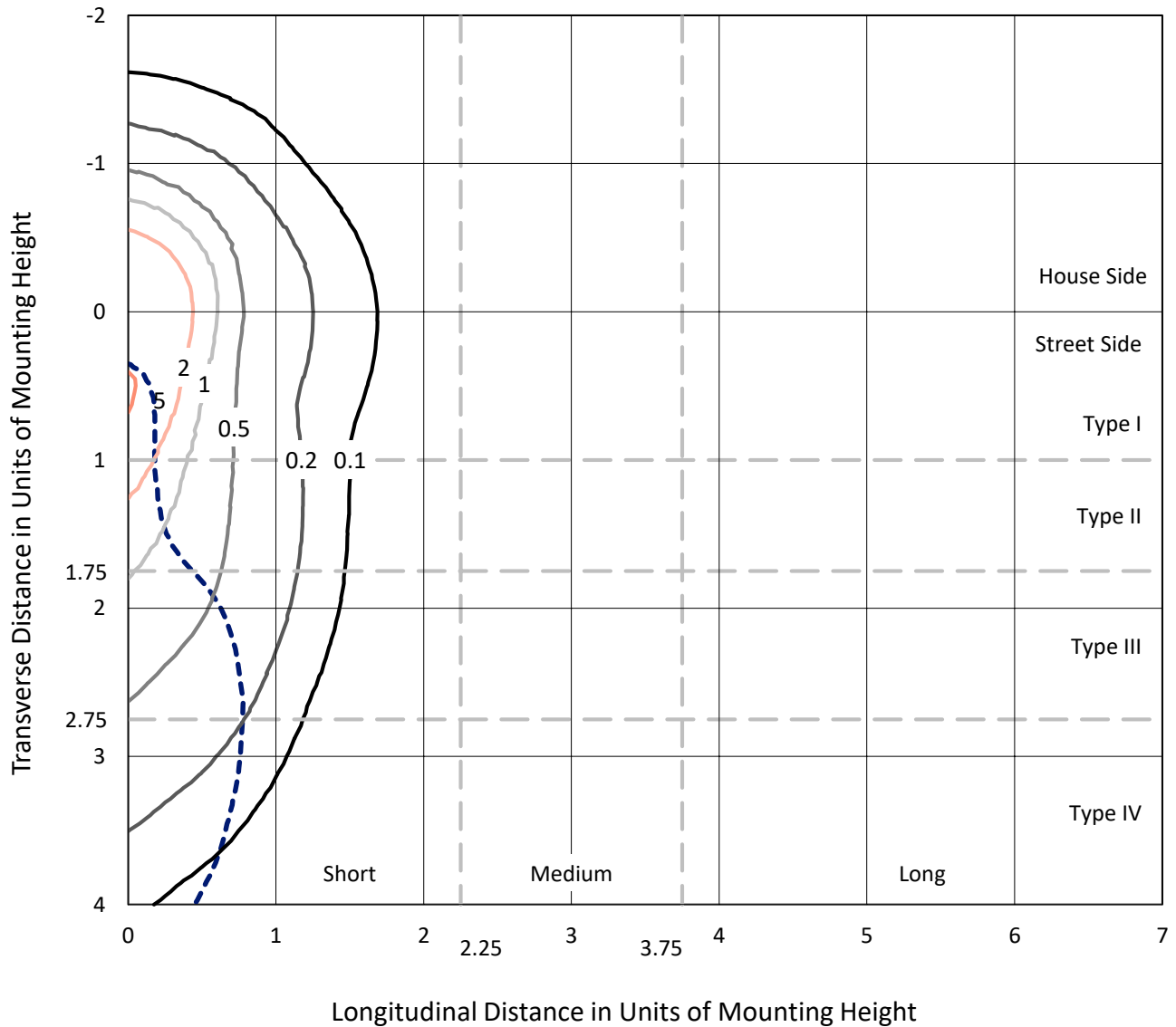
Lumens per Lamp: N/A
Luminaire Lumens: 18723.2 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258.7
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

REPORT NUMBER: P159053
 CATALOG NUMBER: VTS-F10-LED-E1-SLR-8030

Iso-Footcandle Lines of Horizontal Illumination

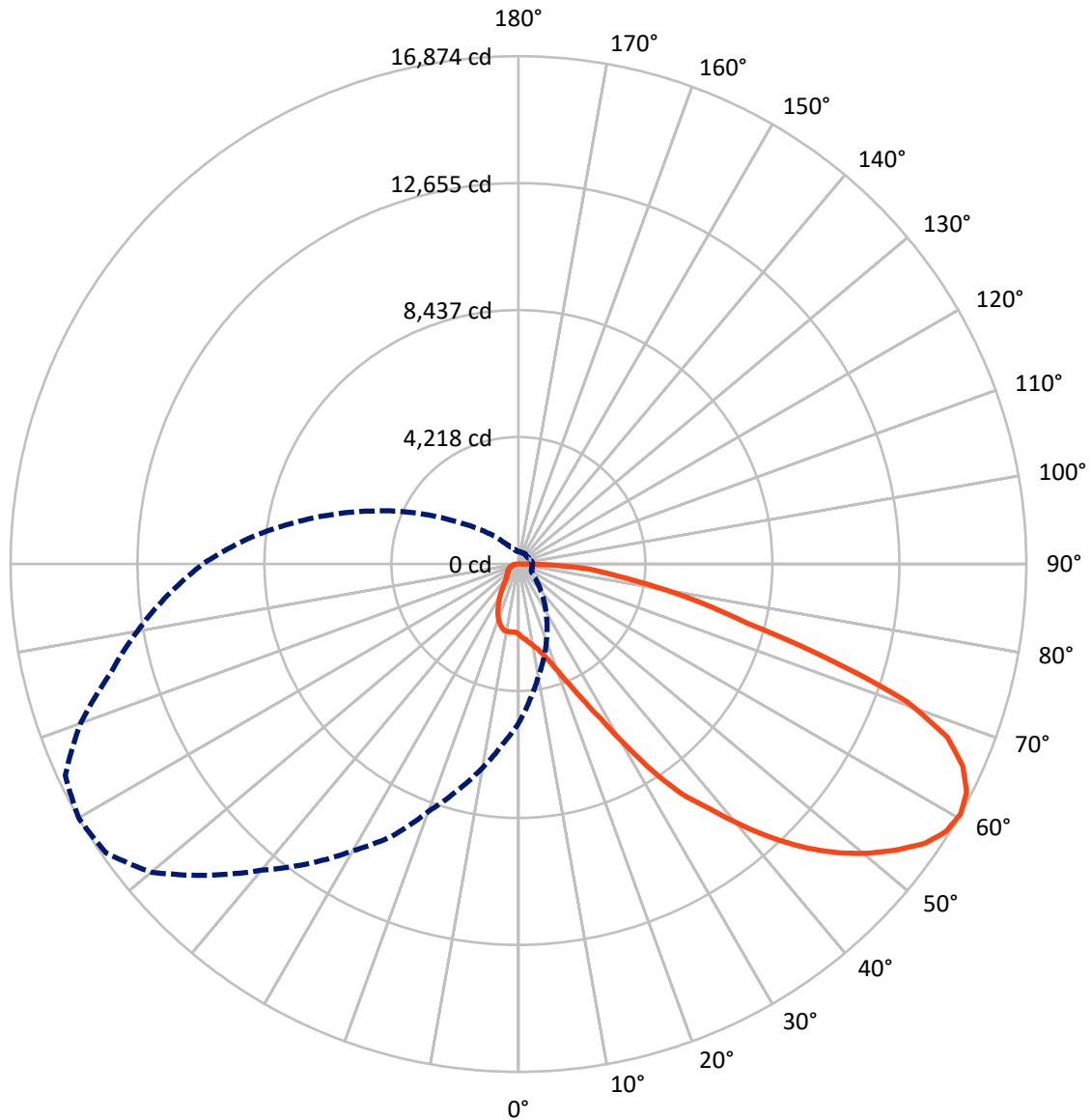
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P159053
CATALOG NUMBER: VTS-F10-LED-E1-SLR-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P159053

CATALOG NUMBER: VTS-F10-LED-E1-SLR-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4215.9	0.0	4215.9
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	14507.4	0.0	14507.4
	% Fixture	77.5	0.0	77.5
Total	Lumens	18723.2	0.0	18723.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.7	1.2
10°-20°	741.7	4.0
20°-30°	1407.5	7.5
30°-40°	2216.5	11.8
40°-50°	3093.8	16.5
50°-60°	3826.3	20.4
60°-70°	3966.1	21.2
70°-80°	2495.6	13.3
80°-90°	746.0	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°	18723.2	100.0
0°-180°	18723.2	100.0



REPORT NUMBER: P159053

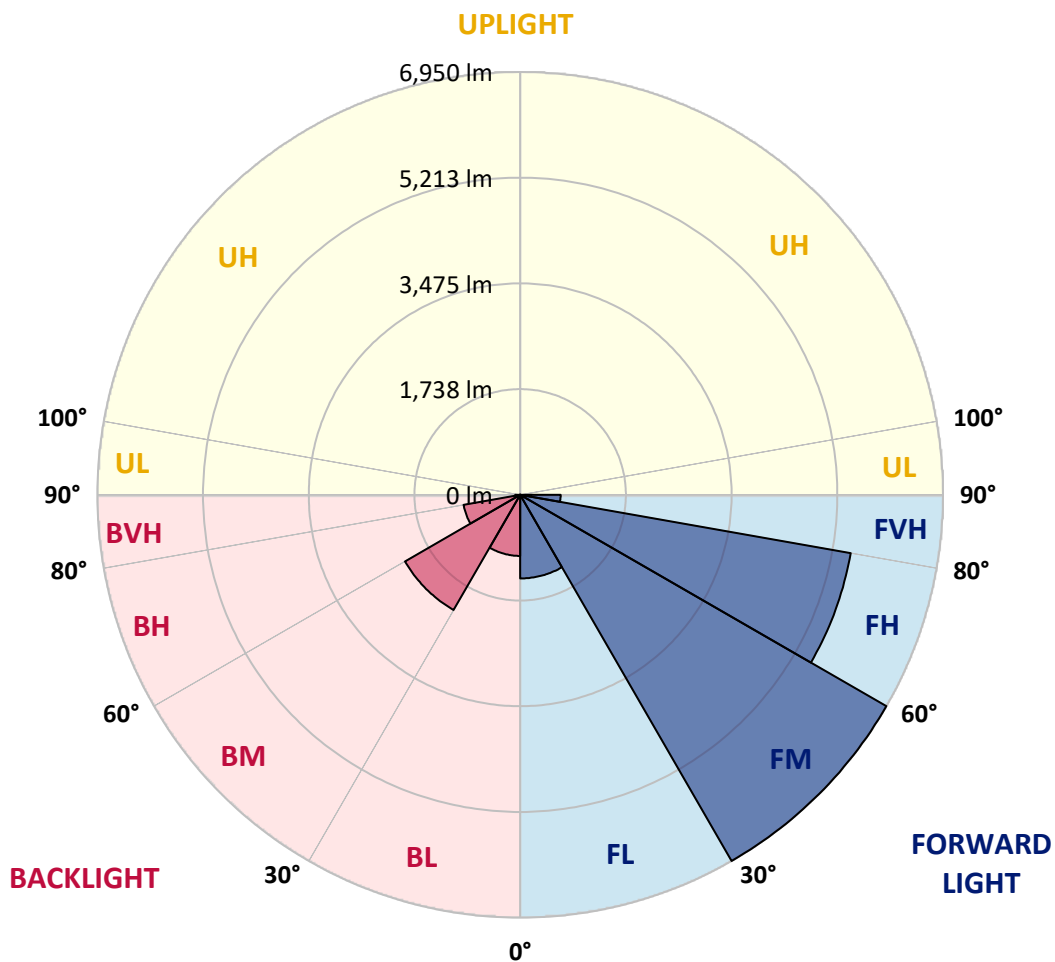
CATALOG NUMBER: VTS-F10-LED-E1-SLR-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1374.6	7.3			
FM	(30°-60°)	6950.4	37.1			
FH	(60°-80°)	5517.6	29.5			G3/7500
FVH	(80°-90°)	664.9	3.6			G4/750
BL	(0°-30°)	1004.4	5.4	B3/2500		
BM	(30°-60°)	2186.2	11.7	B2/2500		
BH	(60°-80°)	944.2	5.0	B2/1000		G2/1000
BVH	(80°-90°)	81.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





REPORT NUMBER: P159053

CATALOG NUMBER: VTS-F10-LED-E1-SLR-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5
2.5°	2466.4	2318.7	2321.5	2317.3	2317.3	2314.6	2317.3	2314.6	2311.8	2311.8	2313.2
5°	2498.5	2335.5	2335.5	2331.3	2328.5	2325.7	2328.5	2325.7	2324.3	2321.5	2322.9
7.5°	2529.2	2345.2	2339.6	2334.1	2327.1	2329.9	2329.9	2328.5	2329.9	2328.5	2331.3
10°	2579.3	2377.3	2363.3	2350.8	2349.4	2346.6	2346.6	2342.4	2342.4	2339.6	2341.0
12.5°	2707.5	2476.2	2460.9	2438.6	2434.4	2421.9	2414.9	2406.5	2392.6	2380.0	2370.3
15°	2923.5	2640.6	2611.4	2591.9	2583.5	2558.4	2519.4	2488.7	2448.3	2413.5	2377.3
17.5°	3188.3	2860.8	2826.0	2800.9	2759.1	2690.8	2625.3	2550.1	2472.0	2401.0	2335.5
20°	3558.9	3177.1	3108.8	3048.9	2944.4	2827.4	2704.7	2573.7	2453.9	2342.4	2246.3
22.5°	4060.6	3585.4	3458.6	3298.3	3104.7	2906.8	2711.7	2530.5	2370.3	2225.4	2097.2
25°	4637.5	3975.6	3747.0	3471.1	3174.3	2901.2	2644.8	2412.1	2225.4	2038.6	1899.3
27.5°	5062.5	4301.6	3964.4	3602.1	3223.1	2874.7	2559.8	2278.3	2052.6	1861.7	1693.1
30°	5304.9	4488.4	4082.9	3657.9	3231.5	2830.1	2452.5	2126.4	1865.9	1638.7	1477.1
32.5°	5461.0	4588.7	4095.4	3602.1	3131.1	2697.8	2289.5	1950.9	1668.0	1425.5	1254.1
35°	5592.0	4629.1	4036.9	3478.1	2941.6	2497.1	2080.5	1741.8	1442.2	1219.3	1043.7
37.5°	5645.0	4622.1	3943.5	3312.3	2756.3	2278.3	1867.3	1520.3	1252.7	1056.3	905.8
40°	5635.2	4558.0	3816.7	3135.3	2538.9	2049.8	1641.5	1336.3	1119.0	953.1	843.1
42.5°	5569.7	4473.0	3676.0	2955.6	2339.6	1860.3	1488.2	1217.9	1042.3	916.9	820.8
45°	5487.5	4371.3	3547.8	2791.1	2182.2	1725.1	1399.0	1184.5	1032.6	912.7	809.6
47.5°	5376.0	4258.4	3418.2	2674.1	2098.6	1684.7	1397.7	1204.0	1040.9	903.0	790.1
50°	5254.8	4176.2	3347.1	2623.9	2088.8	1709.8	1446.4	1234.6	1046.5	893.2	763.6
52.5°	5169.8	4140.0	3345.7	2642.0	2140.4	1779.5	1503.6	1273.6	1067.4	898.8	758.0
55°	5065.3	4134.4	3382.0	2720.1	2253.2	1897.9	1594.1	1340.5	1110.6	919.7	762.2
57.5°	5072.2	4244.5	3522.7	2912.4	2456.7	2058.2	1709.8	1422.7	1152.4	932.2	755.3
60°	5292.4	4500.9	3800.0	3241.2	2722.8	2246.3	1828.2	1467.3	1149.6	904.4	721.8
62.5°	5746.7	4885.5	4215.3	3627.2	2993.2	2391.2	1871.4	1454.8	1107.8	844.4	667.5
65°	6288.7	5335.6	4619.4	3926.8	3157.6	2424.6	1833.8	1385.1	1024.2	766.4	602.0
67.5°	6830.8	5654.7	4852.1	4011.8	3090.7	2289.5	1694.5	1229.0	882.1	660.5	528.1
70°	7025.9	5720.2	4834.0	3820.9	2786.9	1953.6	1394.9	989.4	707.9	540.7	444.5
72.5°	6733.3	5310.5	4297.5	3246.8	2265.8	1514.7	1022.8	730.2	540.7	423.6	362.3
75°	5647.7	4276.6	3397.3	2445.5	1635.9	1071.6	738.5	532.3	406.9	335.8	289.8
77.5°	4025.7	2977.8	2314.6	1606.7	1061.8	742.7	529.5	399.9	323.3	268.9	235.5
80°	2529.2	1828.2	1410.2	964.3	661.9	504.4	380.4	316.3	260.6	218.8	196.5
82.5°	1523.1	1064.6	830.5	599.2	434.8	345.6	280.1	248.0	207.6	181.2	168.6
85°	1034.0	783.1	544.8	353.9	262.0	203.4	190.9	171.4	154.7	129.6	125.4
87.5°	197.9	280.1	243.9	144.9	96.1	82.2	72.5	69.7	62.7	50.2	57.1
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: P159053

CATALOG NUMBER: VTS-F10-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5
2.5°	2304.8	2302.0	2296.4	2296.4	2292.3	2283.9	2282.5	2276.9	2270.0	2271.4	2270.0
5°	2313.2	2307.6	2300.6	2297.8	2292.3	2283.9	2279.7	2272.8	2265.8	2265.8	2265.8
7.5°	2322.9	2315.9	2310.4	2300.6	2289.5	2281.1	2270.0	2261.6	2257.4	2256.0	2257.4
10°	2331.3	2327.1	2318.7	2304.8	2289.5	2272.8	2261.6	2250.5	2239.3	2240.7	2242.1
12.5°	2349.4	2335.5	2313.2	2292.3	2268.6	2247.7	2228.2	2214.2	2200.3	2200.3	2201.7
15°	2336.9	2296.4	2265.8	2225.4	2198.9	2165.5	2143.2	2130.6	2122.3	2119.5	2120.9
17.5°	2263.0	2214.2	2168.2	2132.0	2095.8	2069.3	2059.6	2051.2	2040.0	2045.6	2040.0
20°	2151.5	2091.6	2026.1	1982.9	1939.7	1921.6	1904.9	1896.5	1889.5	1914.6	1914.6
22.5°	1991.3	1918.8	1851.9	1799.0	1750.2	1730.7	1714.0	1704.2	1708.4	1739.1	1741.8
25°	1789.2	1701.4	1613.6	1581.6	1532.8	1517.5	1507.7	1506.3	1510.5	1541.2	1548.1
27.5°	1574.6	1482.7	1407.4	1333.6	1311.3	1298.7	1280.6	1301.5	1305.7	1339.1	1353.1
30°	1346.1	1247.2	1167.7	1119.0	1071.6	1078.5	1063.2	1088.3	1099.4	1134.3	1145.4
32.5°	1112.0	1018.6	939.2	890.4	857.0	861.2	850.0	872.3	883.5	925.3	946.2
35°	919.7	840.3	776.2	734.4	719.0	703.7	700.9	703.7	714.9	746.9	784.5
37.5°	809.6	744.1	698.1	667.5	646.6	636.8	631.2	631.2	631.2	638.2	656.3
40°	762.2	703.7	663.3	634.0	620.1	614.5	610.3	606.2	599.2	596.4	597.8
42.5°	741.3	674.4	631.2	608.9	600.6	600.6	600.6	597.8	590.8	583.9	576.9
45°	720.4	648.0	604.8	589.4	585.3	586.7	586.7	586.7	581.1	572.7	560.2
47.5°	693.9	618.7	575.5	565.7	565.7	569.9	571.3	571.3	565.7	557.4	547.6
50°	661.9	581.1	542.1	533.7	529.5	529.5	529.5	529.5	525.3	519.8	512.8
52.5°	645.2	560.2	519.8	511.4	511.4	507.2	505.8	501.6	497.5	493.3	483.5
55°	639.6	551.8	510.0	503.0	503.0	498.9	494.7	490.5	483.5	476.6	466.8
57.5°	624.3	533.7	497.5	491.9	491.9	489.1	484.9	480.7	473.8	464.0	451.5
60°	589.4	503.0	472.4	471.0	471.0	469.6	466.8	466.8	459.8	450.1	434.8
62.5°	544.8	471.0	441.7	441.7	440.3	438.9	433.4	432.0	423.6	411.1	397.1
65°	501.6	443.1	423.6	418.0	415.3	411.1	408.3	401.3	394.4	383.2	369.3
67.5°	447.3	401.3	388.8	383.2	377.6	373.5	369.3	365.1	356.7	348.4	337.2
70°	388.8	355.3	348.4	347.0	340.0	335.8	334.4	330.3	321.9	313.5	299.6
72.5°	333.0	313.5	308.0	308.0	299.6	294.0	291.2	289.8	284.3	277.3	264.8
75°	268.9	255.0	253.6	260.6	260.6	256.4	253.6	256.4	248.0	243.9	231.3
77.5°	220.2	213.2	209.0	211.8	220.2	216.0	210.4	210.4	210.4	203.4	199.3
80°	186.7	181.2	177.0	179.8	178.4	177.0	174.2	168.6	168.6	168.6	167.2
82.5°	168.6	167.2	151.9	151.9	146.3	142.1	139.3	136.6	133.8	133.8	140.7
85°	126.8	131.0	122.6	121.2	114.3	108.7	103.1	100.3	97.5	101.7	115.7
87.5°	61.3	61.3	58.5	65.5	59.9	57.1	53.0	50.2	53.0	65.5	78.0
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: P159053

CATALOG NUMBER: VTS-F10-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5
2.5°	2267.2	2265.8	2264.4	2261.6	2256.0	2254.6	2251.8	2251.8	2250.5	2247.7	2250.5
5°	2263.0	2265.8	2265.8	2264.4	2260.2	2263.0	2263.0	2267.2	2267.2	2270.0	2276.9
7.5°	2257.4	2264.4	2270.0	2274.1	2279.7	2283.9	2292.3	2304.8	2310.4	2320.1	2324.3
10°	2246.3	2258.8	2268.6	2281.1	2295.0	2310.4	2322.9	2342.4	2349.4	2363.3	2370.3
12.5°	2214.2	2235.1	2251.8	2276.9	2300.6	2324.3	2346.6	2371.7	2384.2	2399.6	2409.3
15°	2136.2	2159.9	2183.6	2205.9	2247.7	2293.7	2329.9	2363.3	2381.4	2401.0	2410.7
17.5°	2042.8	2058.2	2077.7	2106.9	2147.3	2187.7	2246.3	2293.7	2321.5	2343.8	2346.6
20°	1934.1	1956.4	1970.4	1981.5	2013.6	2041.4	2104.1	2158.5	2194.7	2221.2	2228.2
22.5°	1768.3	1792.0	1815.7	1824.1	1849.1	1885.4	1920.2	1978.7	2030.3	2069.3	2093.0
25°	1578.8	1601.1	1633.1	1658.2	1663.8	1693.1	1727.9	1794.8	1847.7	1910.4	1938.3
27.5°	1389.3	1408.8	1443.6	1457.6	1474.3	1503.6	1531.4	1587.2	1642.9	1715.4	1746.0
30°	1167.7	1209.5	1249.9	1276.4	1290.4	1325.2	1344.7	1399.0	1450.6	1503.6	1548.1
32.5°	978.2	1015.8	1061.8	1095.3	1112.0	1138.5	1169.1	1215.1	1255.5	1307.1	1358.6
35°	804.0	855.6	886.2	915.5	958.7	971.2	1001.9	1043.7	1067.4	1123.1	1181.7
37.5°	681.4	712.1	742.7	772.0	808.2	824.9	854.2	889.0	916.9	950.3	1003.3
40°	606.2	622.9	645.2	664.7	691.2	712.1	727.4	756.7	777.6	811.0	848.6
42.5°	571.3	575.5	578.3	592.2	606.2	620.1	636.8	649.4	674.4	699.5	723.2
45°	551.8	543.5	539.3	540.7	546.2	554.6	568.5	582.5	599.2	614.5	628.5
47.5°	535.1	523.9	511.4	504.4	505.8	508.6	519.8	530.9	539.3	551.8	557.4
50°	496.1	486.3	475.2	465.4	466.8	468.2	478.0	486.3	491.9	496.1	503.0
52.5°	471.0	457.1	447.3	437.5	436.2	440.3	448.7	457.1	459.8	462.6	464.0
55°	452.9	438.9	426.4	416.6	412.5	422.2	425.0	436.2	440.3	440.3	441.7
57.5°	438.9	422.2	409.7	399.9	393.0	399.9	406.9	419.4	420.8	418.0	418.0
60°	418.0	405.5	393.0	383.2	376.2	381.8	387.4	401.3	401.3	394.4	393.0
62.5°	381.8	374.8	366.5	362.3	360.9	366.5	370.7	381.8	377.6	369.3	366.5
65°	355.3	349.8	341.4	338.6	337.2	345.6	347.0	353.9	348.4	344.2	342.8
67.5°	323.3	319.1	314.9	313.5	309.4	309.4	312.1	316.3	313.5	313.5	314.9
70°	287.1	281.5	277.3	278.7	275.9	275.9	277.3	280.1	278.7	281.5	284.3
72.5°	253.6	246.6	245.3	245.3	242.5	243.9	243.9	245.3	248.0	249.4	256.4
75°	221.6	214.6	214.6	213.2	213.2	213.2	214.6	217.4	220.2	221.6	224.3
77.5°	192.3	188.1	189.5	188.1	188.1	188.1	188.1	192.3	193.7	195.1	199.3
80°	165.8	165.8	167.2	167.2	165.8	164.4	165.8	168.6	170.0	171.4	172.8
82.5°	150.5	151.9	151.9	151.9	144.9	142.1	146.3	149.1	151.9	153.3	156.1
85°	129.6	124.0	129.6	128.2	118.4	117.1	117.1	118.4	121.2	118.4	118.4
87.5°	83.6	75.2	79.4	79.4	69.7	57.1	72.5	78.0	69.7	73.9	73.9
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: P159053

CATALOG NUMBER: VTS-F10-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5
2.5°	2254.6	2251.8	2253.2	2253.2	2256.0	2251.8	2257.4	2263.0	2264.4	2264.4	2265.8
5°	2283.9	2281.1	2290.9	2286.7	2296.4	2295.0	2302.0	2307.6	2310.4	2310.4	2310.4
7.5°	2329.9	2339.6	2345.2	2360.5	2361.9	2370.3	2377.3	2384.2	2381.4	2382.8	2381.4
10°	2381.4	2394.0	2407.9	2423.2	2424.6	2434.4	2445.5	2452.5	2449.7	2448.3	2444.1
12.5°	2426.0	2434.4	2451.1	2466.4	2474.8	2490.1	2501.3	2506.9	2506.9	2502.7	2498.5
15°	2423.2	2435.8	2453.9	2476.2	2491.5	2513.8	2533.3	2545.9	2547.3	2543.1	2541.7
17.5°	2361.9	2380.0	2396.8	2427.4	2455.3	2486.0	2518.0	2536.1	2552.8	2562.6	2568.2
20°	2251.8	2274.1	2297.8	2338.2	2375.9	2416.3	2453.9	2480.4	2505.5	2534.7	2569.6
22.5°	2122.3	2155.7	2189.1	2240.7	2286.7	2332.7	2375.9	2407.9	2446.9	2497.1	2562.6
25°	1970.4	2005.2	2047.0	2106.9	2165.5	2232.3	2296.4	2360.5	2435.8	2522.2	2623.9
27.5°	1790.6	1829.6	1884.0	1956.4	2023.3	2091.6	2191.9	2293.7	2416.3	2527.8	2643.4
30°	1612.2	1662.4	1720.9	1793.4	1860.3	1957.8	2058.2	2183.6	2313.2	2438.6	2576.5
32.5°	1419.9	1482.7	1555.1	1615.0	1690.3	1789.2	1889.5	2023.3	2161.3	2309.0	2460.9
35°	1234.6	1294.5	1351.7	1418.6	1493.8	1587.2	1684.7	1812.9	1987.1	2144.6	2325.7
37.5°	1046.5	1102.2	1142.6	1195.6	1261.1	1364.2	1468.7	1616.4	1780.9	1974.5	2155.7
40°	882.1	928.1	974.0	1015.8	1071.6	1169.1	1280.6	1425.5	1587.2	1775.3	1977.3
42.5°	751.1	785.9	836.1	886.2	933.6	1017.2	1121.7	1263.9	1424.1	1616.4	1818.5
45°	641.0	664.7	705.1	746.9	805.4	875.1	975.4	1120.4	1283.4	1477.1	1690.3
47.5°	561.6	572.7	600.6	643.8	698.1	766.4	852.8	983.8	1142.6	1337.7	1562.1
50°	507.2	519.8	533.7	569.9	618.7	688.4	759.4	873.7	1018.6	1209.5	1432.5
52.5°	469.6	475.2	480.7	503.0	547.6	606.2	681.4	767.8	914.1	1096.7	1297.3
55°	447.3	448.7	452.9	464.0	497.5	551.8	617.3	699.5	813.8	986.6	1191.4
57.5°	420.8	423.6	427.8	434.8	455.7	504.4	560.2	627.1	721.8	866.7	1063.2
60°	395.7	402.7	409.7	413.9	425.0	454.3	501.6	554.6	631.2	739.9	896.0
62.5°	369.3	377.6	383.2	387.4	391.6	409.7	444.5	479.4	526.7	597.8	714.9
65°	345.6	351.2	355.3	358.1	360.9	366.5	381.8	395.7	409.7	452.9	537.9
67.5°	319.1	321.9	323.3	324.7	323.3	323.3	324.7	330.3	335.8	352.5	393.0
70°	288.4	292.6	292.6	294.0	294.0	289.8	289.8	289.8	289.8	294.0	316.3
72.5°	259.2	264.8	264.8	266.2	264.8	263.4	263.4	263.4	267.5	270.3	278.7
75°	231.3	236.9	235.5	236.9	238.3	238.3	241.1	242.5	246.6	248.0	253.6
77.5°	203.4	207.6	209.0	207.6	210.4	213.2	218.8	221.6	223.0	224.3	225.7
80°	177.0	179.8	178.4	174.2	181.2	185.3	193.7	203.4	200.7	202.1	204.8
82.5°	146.3	142.1	139.3	142.1	146.3	151.9	160.2	172.8	174.2	181.2	179.8
85°	112.9	100.3	98.9	105.9	104.5	111.5	125.4	135.2	143.5	150.5	143.5
87.5°	66.9	59.9	50.2	47.4	51.6	68.3	71.1	86.4	93.4	96.1	86.4
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: P159053

CATALOG NUMBER: VTS-F10-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5
2.5°	2392.6	2399.6	2399.6	2402.3	2406.5	2407.9	2413.5	2423.2	2424.6	2424.6	2428.8
5°	2437.2	2444.1	2444.1	2449.7	2451.1	2458.1	2465.1	2476.2	2481.8	2480.4	2498.5
7.5°	2509.6	2504.1	2499.9	2508.2	2512.4	2520.8	2534.7	2544.5	2554.2	2569.6	2594.6
10°	2571.0	2562.6	2558.4	2564.0	2566.8	2576.5	2584.9	2598.8	2622.5	2646.2	2676.9
12.5°	2621.1	2611.4	2600.2	2603.0	2607.2	2619.7	2633.7	2651.8	2686.6	2717.3	2763.3
15°	2662.9	2649.0	2637.8	2643.4	2653.2	2669.9	2693.6	2725.6	2782.8	2835.7	2897.0
17.5°	2703.3	2700.5	2696.4	2714.5	2721.4	2760.5	2795.3	2853.8	2931.9	3011.3	3099.1
20°	2742.4	2773.0	2788.3	2824.6	2846.9	2899.8	2952.8	3023.8	3122.8	3231.5	3351.3
22.5°	2796.7	2880.3	2931.9	3005.7	3043.3	3100.5	3178.5	3271.9	3382.0	3521.3	3674.6
25°	2926.3	3048.9	3152.0	3267.7	3362.4	3450.2	3543.6	3656.5	3815.3	3942.1	4142.8
27.5°	2983.4	3156.2	3310.9	3473.9	3616.1	3751.2	3898.9	4035.5	4223.6	4395.0	4637.5
30°	2929.1	3124.2	3324.8	3538.0	3745.7	3950.5	4165.1	4374.1	4591.5	4831.2	5089.0
32.5°	2828.7	3047.5	3273.3	3524.1	3781.9	4048.0	4326.7	4630.5	4937.1	5235.3	5498.6
35°	2727.0	2962.5	3213.3	3500.4	3804.2	4134.4	4480.0	4864.6	5270.1	5647.7	5991.9
37.5°	2579.3	2838.5	3125.6	3457.2	3818.1	4225.0	4669.5	5143.3	5656.1	6175.9	6627.3
40°	2401.0	2675.5	2989.0	3370.8	3804.2	4318.4	4896.7	5504.2	6163.3	6797.4	7352.0
42.5°	2237.9	2505.5	2839.9	3255.1	3767.9	4400.6	5112.6	5869.3	6649.6	7358.9	8083.5
45°	2094.4	2389.8	2725.6	3174.3	3749.8	4470.3	5272.9	6142.4	7035.6	7880.1	8735.7
47.5°	1963.4	2270.0	2646.2	3129.7	3741.5	4512.1	5384.4	6320.8	7310.1	8280.0	9273.6
50°	1828.2	2126.4	2529.2	3081.0	3720.6	4510.7	5442.9	6442.0	7502.4	8590.7	9644.2
52.5°	1683.3	1982.9	2387.0	2991.8	3676.0	4485.6	5458.2	6524.2	7654.3	8781.7	9959.1
55°	1550.9	1831.0	2235.1	2842.7	3582.6	4424.3	5423.4	6559.1	7761.6	8971.2	10180.7
57.5°	1399.0	1690.3	2074.9	2637.8	3407.0	4315.6	5324.5	6510.3	7792.3	9098.0	10356.3
60°	1190.0	1475.7	1871.4	2395.4	3132.5	4085.7	5140.5	6362.6	7694.7	9120.3	10481.7
62.5°	950.3	1197.0	1578.8	2060.9	2746.5	3724.7	4800.5	6030.9	7391.0	8911.2	10417.6
65°	706.5	870.9	1199.8	1623.4	2299.2	3181.3	4252.9	5474.9	6797.4	8330.2	10014.9
67.5°	491.9	610.3	812.4	1127.3	1672.2	2456.7	3471.1	4606.8	5879.1	7254.4	9178.8
70°	372.1	426.4	536.5	712.1	1082.7	1673.6	2523.6	3535.2	4715.5	6040.7	7853.6
72.5°	317.7	345.6	406.9	487.7	663.3	1017.2	1584.4	2433.0	3479.5	4558.0	6025.4
75°	285.7	309.4	348.4	399.9	469.6	617.3	929.4	1539.8	2304.8	3053.1	4204.1
77.5°	259.2	280.1	314.9	341.4	379.0	444.5	592.2	921.1	1380.9	1886.8	2608.6
80°	231.3	243.9	275.9	302.4	331.6	369.3	425.0	578.3	792.9	1117.6	1538.4
82.5°	197.9	207.6	231.3	267.5	289.8	305.2	321.9	383.2	475.2	606.2	854.2
85°	153.3	160.2	181.2	207.6	217.4	218.8	221.6	238.3	295.4	454.3	735.8
87.5°	78.0	86.4	108.7	117.1	98.9	107.3	108.7	115.7	153.3	249.4	253.6
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: P159053
 CATALOG NUMBER: VTS-F10-LED-E1-SLR-8030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	0°
2.5°	2428.8	2433.0	2442.8	2441.4	2448.3	2448.3	2448.3	2455.3	2451.1	2455.3	2462.3	2.5°
5°	2498.5	2505.5	2519.4	2519.4	2520.8	2516.6	2525.0	2530.5	2523.6	2520.8	2522.2	5°
7.5°	2600.2	2611.4	2622.5	2633.7	2642.0	2637.8	2639.2	2626.7	2623.9	2614.2	2601.6	7.5°
10°	2699.2	2729.8	2750.7	2770.2	2771.6	2767.4	2768.8	2747.9	2743.7	2724.2	2711.7	10°
12.5°	2800.9	2839.9	2873.3	2894.2	2906.8	2909.6	2911.0	2911.0	2891.5	2874.7	2845.5	12.5°
15°	2951.4	3019.7	3071.2	3093.5	3111.6	3128.3	3132.5	3138.1	3122.8	3100.5	3096.3	15°
17.5°	3189.7	3253.8	3322.0	3382.0	3422.4	3425.2	3460.0	3457.2	3489.3	3464.2	3457.2	17.5°
20°	3472.5	3611.9	3682.9	3762.4	3808.4	3830.7	3911.5	3886.4	3910.1	3950.5	3910.1	20°
22.5°	3826.5	4003.4	4106.6	4215.3	4290.5	4344.8	4403.4	4449.4	4513.5	4544.1	4516.2	22.5°
25°	4296.1	4498.1	4620.8	4771.2	4891.1	4988.6	5090.3	5213.0	5211.6	5285.4	5337.0	25°
27.5°	4835.3	5093.1	5271.5	5536.3	5639.4	5803.8	5978.0	6167.5	6200.9	6297.1	6345.9	27.5°
30°	5342.6	5661.7	6015.6	6330.5	6687.3	6931.1	7133.2	7267.0	7469.0	7418.8	7391.0	30°
32.5°	5810.8	6235.8	6740.2	7257.2	7822.9	8208.9	8565.7	8731.5	8856.9	8590.7	8238.2	32.5°
35°	6418.3	6926.9	7503.8	8142.1	8861.1	9408.7	9776.6	9828.2	9757.1	9415.7	8831.8	35°
37.5°	7170.8	7704.5	8360.8	9035.3	9798.9	10313.1	10732.5	10807.8	10619.6	10010.7	9397.6	37.5°
40°	7913.5	8539.2	9251.3	10049.7	10841.2	11407.0	11827.8	11850.1	11543.5	10831.5	10113.8	40°
42.5°	8725.9	9410.1	10203.0	11087.8	11905.8	12478.5	12782.3	12878.5	12445.1	11532.4	10844.0	42.5°
45°	9426.8	10244.8	11128.3	12068.9	12924.4	13467.9	13777.2	13746.6	13222.6	12321.1	11514.3	45°
47.5°	10109.6	11009.8	11940.7	12939.8	13789.8	14338.8	14656.5	14628.7	13964.0	12925.8	12038.2	47.5°
50°	10717.2	11694.0	12688.9	13756.3	14603.6	15106.6	15495.4	15372.8	14532.5	13412.2	12375.4	50°
52.5°	11139.4	12229.1	13268.6	14422.4	15294.7	15771.3	16266.0	15871.6	14868.3	13710.4	12556.6	52.5°
55°	11407.0	12597.0	13681.1	14957.5	15814.5	16384.4	16703.5	16143.4	14997.9	13792.6	12619.3	55°
57.5°	11588.1	12799.0	13923.6	15266.9	16282.7	16760.7	16838.7	16153.1	14914.3	13663.0	12556.6	57.5°
60°	11677.3	12859.0	14033.6	15484.3	16611.6	16873.5	16731.4	15927.4	14625.9	13282.6	12152.5	60°
62.5°	11667.5	12783.7	13976.5	15556.7	16677.1	16710.5	16387.2	15542.8	14095.0	12484.1	11480.8	62.5°
65°	11419.5	12509.2	13654.6	15287.8	16371.9	16228.4	15821.5	14821.0	13062.4	11441.8	10934.6	65°
67.5°	10704.6	11749.7	12813.0	14407.1	15512.1	15372.8	14756.9	13402.4	11862.6	10519.3	10246.2	67.5°
70°	9509.0	10395.3	11328.9	12729.4	13888.7	13700.6	12623.5	11799.9	10674.0	9453.3	9358.6	70°
72.5°	7949.8	8621.4	9298.6	10340.9	11139.4	10754.8	10077.6	10034.4	9124.4	8192.2	8211.7	72.5°
75°	6217.7	6722.1	7038.4	7651.5	8182.5	7838.3	7878.7	8118.4	7818.8	7084.4	6846.1	75°
77.5°	4505.1	4988.6	5089.0	5452.7	5826.1	6217.7	6736.0	7300.4	7395.2	6982.7	6118.7	77.5°
80°	2948.6	3480.9	3283.0	3412.6	3937.9	4652.8	5599.0	6528.4	6847.5	6476.9	5413.6	80°
82.5°	1739.1	2484.6	2169.6	2391.2	2724.2	3347.1	4000.7	4701.6	5235.3	4840.9	4521.8	82.5°
85°	1321.0	1959.2	2074.9	2343.8	2452.5	2479.0	2593.2	2821.8	3097.7	3200.8	3192.4	85°
87.5°	688.4	1523.1	1709.8	1581.6	1475.7	1279.2	997.7	1074.4	982.4	1343.3	1272.2	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: P159053

NUMBER: VTS-F10-LED-E1-SLR-8030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5
2463.7	2459.5	2462.3	2463.7	2463.7	2463.7	2466.4
2520.8	2509.6	2505.5	2505.5	2504.1	2499.9	2498.5
2582.1	2562.6	2555.6	2547.3	2540.3	2536.1	2529.2
2692.2	2675.5	2640.6	2621.1	2603.0	2590.5	2579.3
2839.9	2816.2	2782.8	2757.7	2729.8	2721.4	2707.5
3068.4	3047.5	3018.3	2990.4	2973.7	2944.4	2923.5
3425.2	3383.3	3354.1	3317.9	3277.4	3217.5	3188.3
3894.8	3811.1	3752.6	3720.6	3639.7	3630.0	3558.9
4434.0	4408.9	4319.8	4280.7	4202.7	4172.1	4060.6
5240.8	5221.3	5038.8	5019.3	4899.4	4810.3	4637.5
6301.3	6141.0	5934.8	5791.3	5586.4	5356.5	5062.5
7227.9	6900.5	6585.5	6251.1	5968.2	5638.0	5304.9
7818.8	7379.8	6974.3	6631.5	6281.8	5888.8	5461.0
8337.1	7894.0	7452.3	7046.8	6623.2	6120.1	5592.0
8957.2	8516.9	8019.4	7449.5	6906.0	6290.1	5645.0
9592.7	9077.1	8455.6	7757.5	7074.7	6373.7	5635.2
10243.4	9584.3	8758.0	7962.3	7182.0	6386.3	5569.7
10771.5	9938.2	8982.3	8066.8	7204.2	6343.1	5487.5
11145.0	10165.4	9082.6	8103.0	7176.4	6274.8	5376.0
11358.2	10289.4	9107.7	8076.6	7119.2	6177.3	5254.8
11436.2	10327.0	9082.6	8022.2	7067.7	6072.7	5169.8
11427.9	10306.1	8990.7	7895.4	6929.7	5933.4	5065.3
11270.4	10112.4	8802.6	7743.5	6812.7	5869.3	5072.2
11002.8	9989.8	8746.8	7774.2	6874.0	6007.3	5292.4
10881.6	10235.0	9060.3	8080.7	7188.9	6401.6	5746.7
10813.3	10633.6	9509.0	8411.0	7562.4	6879.6	6288.7
10534.6	10747.8	9764.1	8599.1	7895.4	7358.9	6830.8
10084.6	10481.7	9570.4	8562.9	8079.3	7726.8	7025.9
9145.4	9564.8	8707.8	8029.2	7849.4	7732.4	6733.3
7409.1	7626.5	7138.8	6985.5	7052.4	7053.8	5647.7
5463.8	5332.8	5112.6	5123.8	5573.9	5504.2	4025.7
4460.5	3650.9	3338.8	3457.2	4013.2	3713.6	2529.2
4151.2	3256.5	2688.0	2715.9	3030.8	2392.6	1523.1
3356.9	2968.1	2380.0	2136.2	2073.5	1594.1	1034.0
1404.6	1291.7	961.5	866.7	710.7	434.8	197.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)