

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P158943

Luminaire Tested: **VST-F10-LED-E-U-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158943
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33715)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F10-LED-E-U-SLL-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
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: 28.75 FT



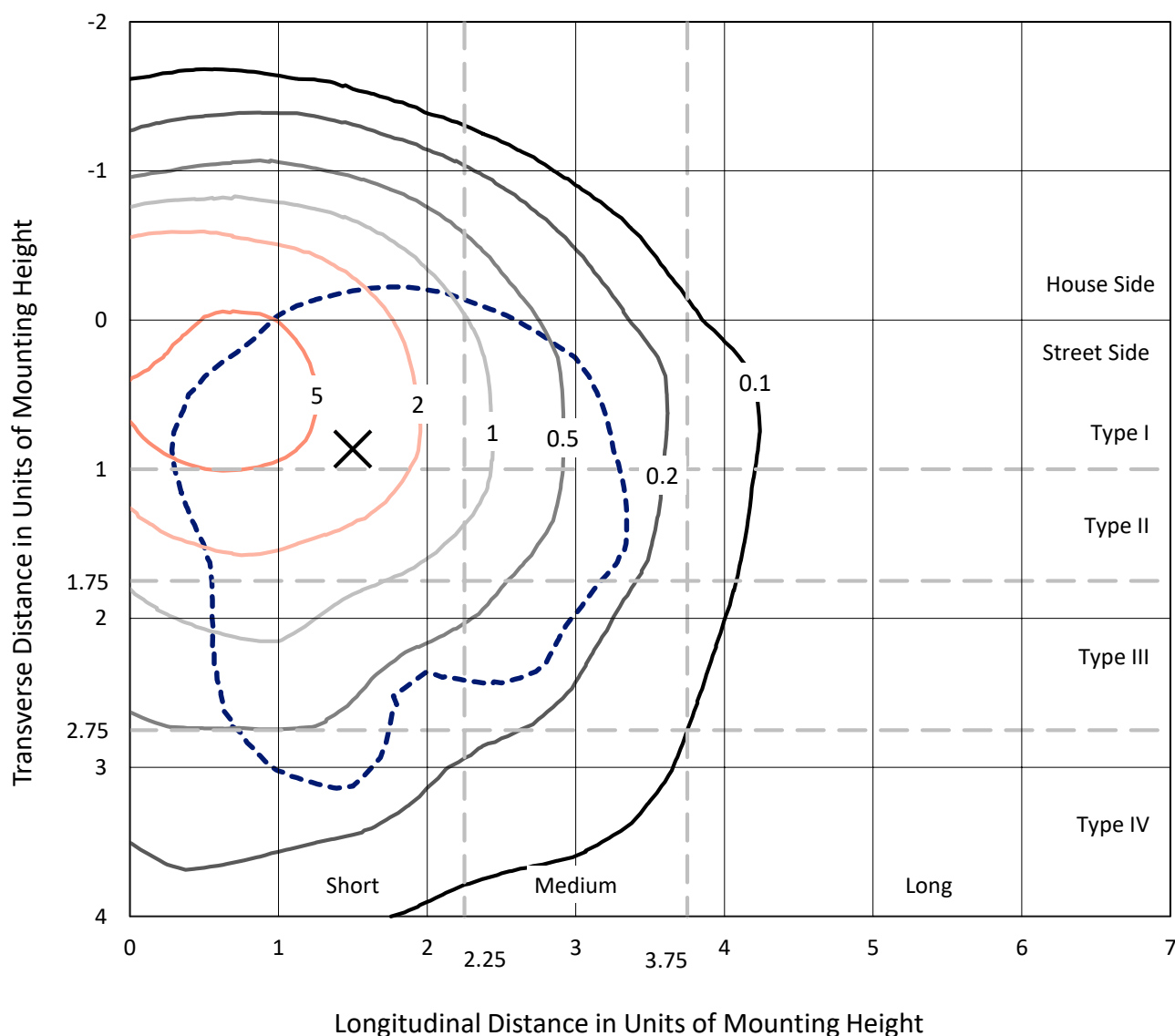
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

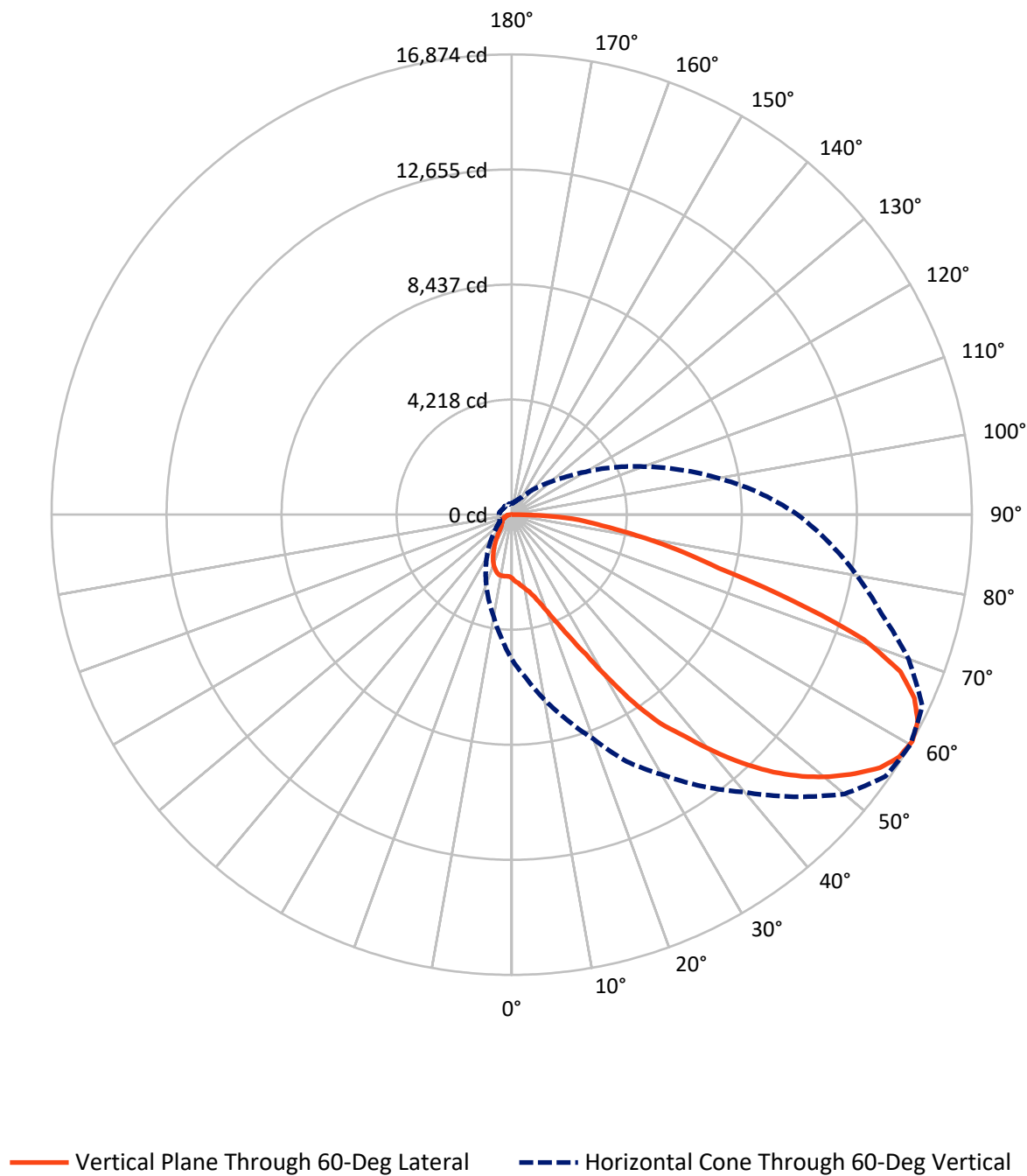


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	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

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

Coefficient of Utilization



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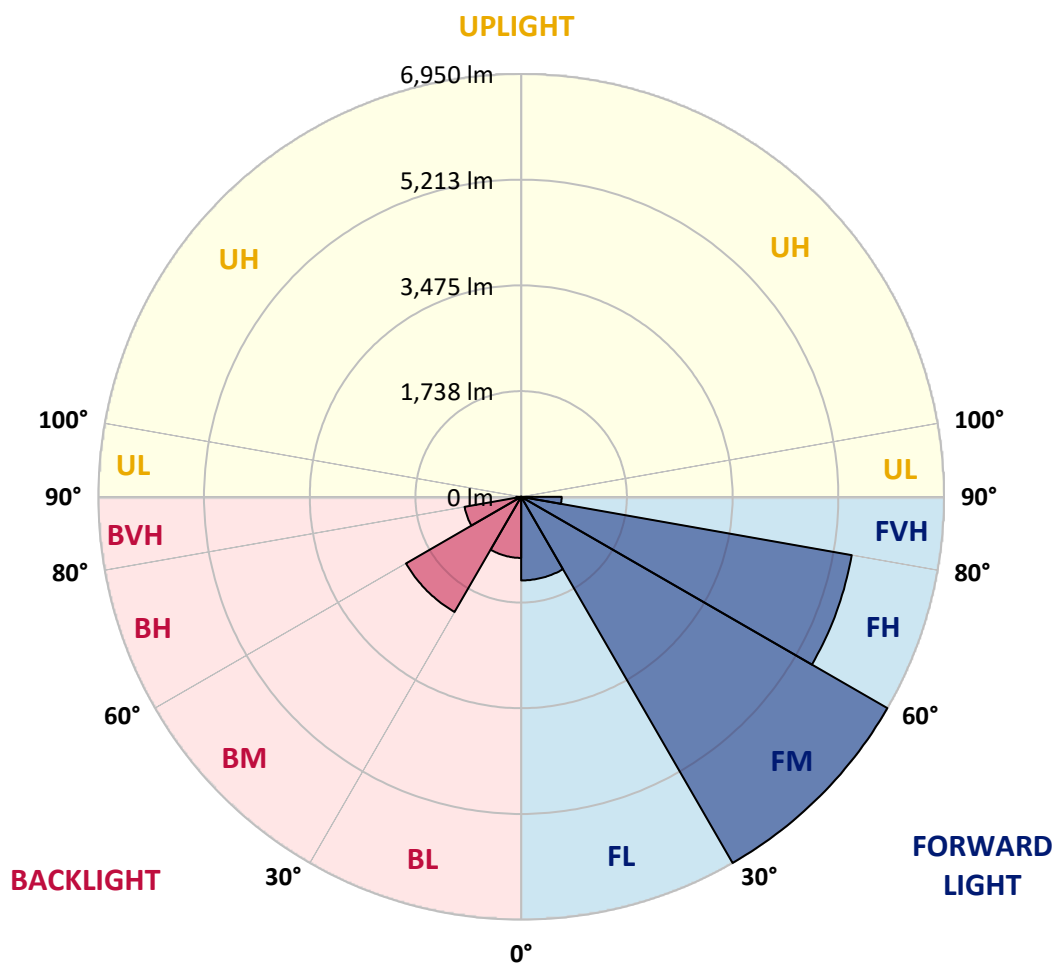
CATALOG NUMBER: VST-F10-LED-E-U-SLL-8030

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





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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	2463.7	2463.7	2463.7	2462.3	2459.5	2463.7	2462.3	2455.3	2451.1	2455.3
5°	2498.5	2499.9	2504.1	2505.5	2505.5	2509.6	2520.8	2522.2	2520.8	2523.6	2530.5
7.5°	2529.2	2536.1	2540.3	2547.3	2555.6	2562.6	2582.1	2601.6	2614.2	2623.9	2626.7
10°	2579.3	2590.5	2603.0	2621.1	2640.6	2675.5	2692.2	2711.7	2724.2	2743.7	2747.9
12.5°	2707.5	2721.4	2729.8	2757.7	2782.8	2816.2	2839.9	2845.5	2874.7	2891.5	2911.0
15°	2923.5	2944.4	2973.7	2990.4	3018.3	3047.5	3068.4	3096.3	3100.5	3122.8	3138.1
17.5°	3188.3	3217.5	3277.4	3317.9	3354.1	3383.3	3425.2	3457.2	3464.2	3489.3	3457.2
20°	3558.9	3630.0	3639.7	3720.6	3752.6	3811.1	3894.8	3910.1	3950.5	3910.1	3886.4
22.5°	4060.6	4172.1	4202.7	4280.7	4319.8	4408.9	4434.0	4516.2	4544.1	4513.5	4449.4
25°	4637.5	4810.3	4899.4	5019.3	5038.8	5221.3	5240.8	5337.0	5285.4	5211.6	5213.0
27.5°	5062.5	5356.5	5586.4	5791.3	5934.8	6141.0	6301.3	6345.9	6297.1	6200.9	6167.5
30°	5304.9	5638.0	5968.2	6251.1	6585.5	6900.5	7227.9	7391.0	7418.8	7469.0	7267.0
32.5°	5461.0	5888.8	6281.8	6631.5	6974.3	7379.8	7818.8	8238.2	8590.7	8856.9	8731.5
35°	5592.0	6120.1	6623.2	7046.8	7452.3	7894.0	8337.1	8831.8	9415.7	9757.1	9828.2
37.5°	5645.0	6290.1	6906.0	7449.5	8019.4	8516.9	8957.2	9397.6	10010.7	10619.6	10807.8
40°	5635.2	6373.7	7074.7	7757.5	8455.6	9077.1	9592.7	10113.8	10831.5	11543.5	11850.1
42.5°	5569.7	6386.3	7182.0	7962.3	8758.0	9584.3	10243.4	10844.0	11532.4	12445.1	12878.5
45°	5487.5	6343.1	7204.2	8066.8	8982.3	9938.2	10771.5	11514.3	12321.1	13222.6	13746.6
47.5°	5376.0	6274.8	7176.4	8103.0	9082.6	10165.4	11145.0	12038.2	12925.8	13964.0	14628.7
50°	5254.8	6177.3	7119.2	8076.6	9107.7	10289.4	11358.2	12375.4	13412.2	14532.5	15372.8
52.5°	5169.8	6072.7	7067.7	8022.2	9082.6	10327.0	11436.2	12556.6	13710.4	14868.3	15871.6
55°	5065.3	5933.4	6929.7	7895.4	8990.7	10306.1	11427.9	12619.3	13792.6	14997.9	16143.4
57.5°	5072.2	5869.3	6812.7	7743.5	8802.6	10112.4	11270.4	12556.6	13663.0	14914.3	16153.1
60°	5292.4	6007.3	6874.0	7774.2	8746.8	9989.8	11002.8	12152.5	13282.6	14625.9	15927.4
62.5°	5746.7	6401.6	7188.9	8080.7	9060.3	10235.0	10881.6	11480.8	12484.1	14095.0	15542.8
65°	6288.7	6879.6	7562.4	8411.0	9509.0	10633.6	10813.3	10934.6	11441.8	13062.4	14821.0
67.5°	6830.8	7358.9	7895.4	8599.1	9764.1	10747.8	10534.6	10246.2	10519.3	11862.6	13402.4
70°	7025.9	7726.8	8079.3	8562.9	9570.4	10481.7	10084.6	9358.6	9453.3	10674.0	11799.9
72.5°	6733.3	7732.4	7849.4	8029.2	8707.8	9564.8	9145.4	8211.7	8192.2	9124.4	10034.4
75°	5647.7	7053.8	7052.4	6985.5	7138.8	7626.5	7409.1	6846.1	7084.4	7818.8	8118.4
77.5°	4025.7	5504.2	5573.9	5123.8	5112.6	5332.8	5463.8	6118.7	6982.7	7395.2	7300.4
80°	2529.2	3713.6	4013.2	3457.2	3338.8	3650.9	4460.5	5413.6	6476.9	6847.5	6528.4
82.5°	1523.1	2392.6	3030.8	2715.9	2688.0	3256.5	4151.2	4521.8	4840.9	5235.3	4701.6
85°	1034.0	1594.1	2073.5	2136.2	2380.0	2968.1	3356.9	3192.4	3200.8	3097.7	2821.8
87.5°	197.9	434.8	710.7	866.7	961.5	1291.7	1404.6	1272.2	1343.3	982.4	1074.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: VST-F10-LED-E-U-SLL-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°	2448.3	2448.3	2448.3	2441.4	2442.8	2433.0	2428.8	2428.8	2424.6	2424.6	2423.2
5°	2525.0	2516.6	2520.8	2519.4	2519.4	2505.5	2498.5	2498.5	2480.4	2481.8	2476.2
7.5°	2639.2	2637.8	2642.0	2633.7	2622.5	2611.4	2600.2	2594.6	2569.6	2554.2	2544.5
10°	2768.8	2767.4	2771.6	2770.2	2750.7	2729.8	2699.2	2676.9	2646.2	2622.5	2598.8
12.5°	2911.0	2909.6	2906.8	2894.2	2873.3	2839.9	2800.9	2763.3	2717.3	2686.6	2651.8
15°	3132.5	3128.3	3111.6	3093.5	3071.2	3019.7	2951.4	2897.0	2835.7	2782.8	2725.6
17.5°	3460.0	3425.2	3422.4	3382.0	3322.0	3253.8	3189.7	3099.1	3011.3	2931.9	2853.8
20°	3911.5	3830.7	3808.4	3762.4	3682.9	3611.9	3472.5	3351.3	3231.5	3122.8	3023.8
22.5°	4403.4	4344.8	4290.5	4215.3	4106.6	4003.4	3826.5	3674.6	3521.3	3382.0	3271.9
25°	5090.3	4988.6	4891.1	4771.2	4620.8	4498.1	4296.1	4142.8	3942.1	3815.3	3656.5
27.5°	5978.0	5803.8	5639.4	5536.3	5271.5	5093.1	4835.3	4637.5	4395.0	4223.6	4035.5
30°	7133.2	6931.1	6687.3	6330.5	6015.6	5661.7	5342.6	5089.0	4831.2	4591.5	4374.1
32.5°	8565.7	8208.9	7822.9	7257.2	6740.2	6235.8	5810.8	5498.6	5235.3	4937.1	4630.5
35°	9776.6	9408.7	8861.1	8142.1	7503.8	6926.9	6418.3	5991.9	5647.7	5270.1	4864.6
37.5°	10732.5	10313.1	9798.9	9035.3	8360.8	7704.5	7170.8	6627.3	6175.9	5656.1	5143.3
40°	11827.8	11407.0	10841.2	10049.7	9251.3	8539.2	7913.5	7352.0	6797.4	6163.3	5504.2
42.5°	12782.3	12478.5	11905.8	11087.8	10203.0	9410.1	8725.9	8083.5	7358.9	6649.6	5869.3
45°	13777.2	13467.9	12924.4	12068.9	11128.3	10244.8	9426.8	8735.7	7880.1	7035.6	6142.4
47.5°	14656.5	14338.8	13789.8	12939.8	11940.7	11009.8	10109.6	9273.6	8280.0	7310.1	6320.8
50°	15495.4	15106.6	14603.6	13756.3	12688.9	11694.0	10717.2	9644.2	8590.7	7502.4	6442.0
52.5°	16266.0	15771.3	15294.7	14422.4	13268.6	12229.1	11139.4	9959.1	8781.7	7654.3	6524.2
55°	16703.5	16384.4	15814.5	14957.5	13681.1	12597.0	11407.0	10180.7	8971.2	7761.6	6559.1
57.5°	16838.7	16760.7	16282.7	15266.9	13923.6	12799.0	11588.1	10356.3	9098.0	7792.3	6510.3
60°	16731.4	16873.5	16611.6	15484.3	14033.6	12859.0	11677.3	10481.7	9120.3	7694.7	6362.6
62.5°	16387.2	16710.5	16677.1	15556.7	13976.5	12783.7	11667.5	10417.6	8911.2	7391.0	6030.9
65°	15821.5	16228.4	16371.9	15287.8	13654.6	12509.2	11419.5	10014.9	8330.2	6797.4	5474.9
67.5°	14756.9	15372.8	15512.1	14407.1	12813.0	11749.7	10704.6	9178.8	7254.4	5879.1	4606.8
70°	12623.5	13700.6	13888.7	12729.4	11328.9	10395.3	9509.0	7853.6	6040.7	4715.5	3535.2
72.5°	10077.6	10754.8	11139.4	10340.9	9298.6	8621.4	7949.8	6025.4	4558.0	3479.5	2433.0
75°	7878.7	7838.3	8182.5	7651.5	7038.4	6722.1	6217.7	4204.1	3053.1	2304.8	1539.8
77.5°	6736.0	6217.7	5826.1	5452.7	5089.0	4988.6	4505.1	2608.6	1886.8	1380.9	921.1
80°	5599.0	4652.8	3937.9	3412.6	3283.0	3480.9	2948.6	1538.4	1117.6	792.9	578.3
82.5°	4000.7	3347.1	2724.2	2391.2	2169.6	2484.6	1739.1	854.2	606.2	475.2	383.2
85°	2593.2	2479.0	2452.5	2343.8	2074.9	1959.2	1321.0	735.8	454.3	295.4	238.3
87.5°	997.7	1279.2	1475.7	1581.6	1709.8	1523.1	688.4	253.6	249.4	153.3	115.7
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):

	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°	2413.5	2407.9	2406.5	2402.3	2399.6	2399.6	2392.6	2265.8	2264.4	2264.4	2263.0
5°	2465.1	2458.1	2451.1	2449.7	2444.1	2444.1	2437.2	2310.4	2310.4	2310.4	2307.6
7.5°	2534.7	2520.8	2512.4	2508.2	2499.9	2504.1	2509.6	2381.4	2382.8	2381.4	2384.2
10°	2584.9	2576.5	2566.8	2564.0	2558.4	2562.6	2571.0	2444.1	2448.3	2449.7	2452.5
12.5°	2633.7	2619.7	2607.2	2603.0	2600.2	2611.4	2621.1	2498.5	2502.7	2506.9	2506.9
15°	2693.6	2669.9	2653.2	2643.4	2637.8	2649.0	2662.9	2541.7	2543.1	2547.3	2545.9
17.5°	2795.3	2760.5	2721.4	2714.5	2696.4	2700.5	2703.3	2568.2	2562.6	2552.8	2536.1
20°	2952.8	2899.8	2846.9	2824.6	2788.3	2773.0	2742.4	2569.6	2534.7	2505.5	2480.4
22.5°	3178.5	3100.5	3043.3	3005.7	2931.9	2880.3	2796.7	2562.6	2497.1	2446.9	2407.9
25°	3543.6	3450.2	3362.4	3267.7	3152.0	3048.9	2926.3	2623.9	2522.2	2435.8	2360.5
27.5°	3898.9	3751.2	3616.1	3473.9	3310.9	3156.2	2983.4	2643.4	2527.8	2416.3	2293.7
30°	4165.1	3950.5	3745.7	3538.0	3324.8	3124.2	2929.1	2576.5	2438.6	2313.2	2183.6
32.5°	4326.7	4048.0	3781.9	3524.1	3273.3	3047.5	2828.7	2460.9	2309.0	2161.3	2023.3
35°	4480.0	4134.4	3804.2	3500.4	3213.3	2962.5	2727.0	2325.7	2144.6	1987.1	1812.9
37.5°	4669.5	4225.0	3818.1	3457.2	3125.6	2838.5	2579.3	2155.7	1974.5	1780.9	1616.4
40°	4896.7	4318.4	3804.2	3370.8	2989.0	2675.5	2401.0	1977.3	1775.3	1587.2	1425.5
42.5°	5112.6	4400.6	3767.9	3255.1	2839.9	2505.5	2237.9	1818.5	1616.4	1424.1	1263.9
45°	5272.9	4470.3	3749.8	3174.3	2725.6	2389.8	2094.4	1690.3	1477.1	1283.4	1120.4
47.5°	5384.4	4512.1	3741.5	3129.7	2646.2	2270.0	1963.4	1562.1	1337.7	1142.6	983.8
50°	5442.9	4510.7	3720.6	3081.0	2529.2	2126.4	1828.2	1432.5	1209.5	1018.6	873.7
52.5°	5458.2	4485.6	3676.0	2991.8	2387.0	1982.9	1683.3	1297.3	1096.7	914.1	767.8
55°	5423.4	4424.3	3582.6	2842.7	2235.1	1831.0	1550.9	1191.4	986.6	813.8	699.5
57.5°	5324.5	4315.6	3407.0	2637.8	2074.9	1690.3	1399.0	1063.2	866.7	721.8	627.1
60°	5140.5	4085.7	3132.5	2395.4	1871.4	1475.7	1190.0	896.0	739.9	631.2	554.6
62.5°	4800.5	3724.7	2746.5	2060.9	1578.8	1197.0	950.3	714.9	597.8	526.7	479.4
65°	4252.9	3181.3	2299.2	1623.4	1199.8	870.9	706.5	537.9	452.9	409.7	395.7
67.5°	3471.1	2456.7	1672.2	1127.3	812.4	610.3	491.9	393.0	352.5	335.8	330.3
70°	2523.6	1673.6	1082.7	712.1	536.5	426.4	372.1	316.3	294.0	289.8	289.8
72.5°	1584.4	1017.2	663.3	487.7	406.9	345.6	317.7	278.7	270.3	267.5	263.4
75°	929.4	617.3	469.6	399.9	348.4	309.4	285.7	253.6	248.0	246.6	242.5
77.5°	592.2	444.5	379.0	341.4	314.9	280.1	259.2	225.7	224.3	223.0	221.6
80°	425.0	369.3	331.6	302.4	275.9	243.9	231.3	204.8	202.1	200.7	203.4
82.5°	321.9	305.2	289.8	267.5	231.3	207.6	197.9	179.8	181.2	174.2	172.8
85°	221.6	218.8	217.4	207.6	181.2	160.2	153.3	143.5	150.5	143.5	135.2
87.5°	108.7	107.3	98.9	117.1	108.7	86.4	78.0	86.4	96.1	93.4	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: P158943

CATALOG NUMBER: VST-F10-LED-E-U-SLL-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°	2257.4	2251.8	2256.0	2253.2	2253.2	2251.8	2254.6	2250.5	2247.7	2250.5	2251.8
5°	2302.0	2295.0	2296.4	2286.7	2290.9	2281.1	2283.9	2276.9	2270.0	2267.2	2267.2
7.5°	2377.3	2370.3	2361.9	2360.5	2345.2	2339.6	2329.9	2324.3	2320.1	2310.4	2304.8
10°	2445.5	2434.4	2424.6	2423.2	2407.9	2394.0	2381.4	2370.3	2363.3	2349.4	2342.4
12.5°	2501.3	2490.1	2474.8	2466.4	2451.1	2434.4	2426.0	2409.3	2399.6	2384.2	2371.7
15°	2533.3	2513.8	2491.5	2476.2	2453.9	2435.8	2423.2	2410.7	2401.0	2381.4	2363.3
17.5°	2518.0	2486.0	2455.3	2427.4	2396.8	2380.0	2361.9	2346.6	2343.8	2321.5	2293.7
20°	2453.9	2416.3	2375.9	2338.2	2297.8	2274.1	2251.8	2228.2	2221.2	2194.7	2158.5
22.5°	2375.9	2332.7	2286.7	2240.7	2189.1	2155.7	2122.3	2093.0	2069.3	2030.3	1978.7
25°	2296.4	2232.3	2165.5	2106.9	2047.0	2005.2	1970.4	1938.3	1910.4	1847.7	1794.8
27.5°	2191.9	2091.6	2023.3	1956.4	1884.0	1829.6	1790.6	1746.0	1715.4	1642.9	1587.2
30°	2058.2	1957.8	1860.3	1793.4	1720.9	1662.4	1612.2	1548.1	1503.6	1450.6	1399.0
32.5°	1889.5	1789.2	1690.3	1615.0	1555.1	1482.7	1419.9	1358.6	1307.1	1255.5	1215.1
35°	1684.7	1587.2	1493.8	1418.6	1351.7	1294.5	1234.6	1181.7	1123.1	1067.4	1043.7
37.5°	1468.7	1364.2	1261.1	1195.6	1142.6	1102.2	1046.5	1003.3	950.3	916.9	889.0
40°	1280.6	1169.1	1071.6	1015.8	974.0	928.1	882.1	848.6	811.0	777.6	756.7
42.5°	1121.7	1017.2	933.6	886.2	836.1	785.9	751.1	723.2	699.5	674.4	649.4
45°	975.4	875.1	805.4	746.9	705.1	664.7	641.0	628.5	614.5	599.2	582.5
47.5°	852.8	766.4	698.1	643.8	600.6	572.7	561.6	557.4	551.8	539.3	530.9
50°	759.4	688.4	618.7	569.9	533.7	519.8	507.2	503.0	496.1	491.9	486.3
52.5°	681.4	606.2	547.6	503.0	480.7	475.2	469.6	464.0	462.6	459.8	457.1
55°	617.3	551.8	497.5	464.0	452.9	448.7	447.3	441.7	440.3	440.3	436.2
57.5°	560.2	504.4	455.7	434.8	427.8	423.6	420.8	418.0	418.0	420.8	419.4
60°	501.6	454.3	425.0	413.9	409.7	402.7	395.7	393.0	394.4	401.3	401.3
62.5°	444.5	409.7	391.6	387.4	383.2	377.6	369.3	366.5	369.3	377.6	381.8
65°	381.8	366.5	360.9	358.1	355.3	351.2	345.6	342.8	344.2	348.4	353.9
67.5°	324.7	323.3	323.3	324.7	323.3	321.9	319.1	314.9	313.5	313.5	316.3
70°	289.8	289.8	294.0	294.0	292.6	292.6	288.4	284.3	281.5	278.7	280.1
72.5°	263.4	263.4	264.8	266.2	264.8	264.8	259.2	256.4	249.4	248.0	245.3
75°	241.1	238.3	238.3	236.9	235.5	236.9	231.3	224.3	221.6	220.2	217.4
77.5°	218.8	213.2	210.4	207.6	209.0	207.6	203.4	199.3	195.1	193.7	192.3
80°	193.7	185.3	181.2	174.2	178.4	179.8	177.0	172.8	171.4	170.0	168.6
82.5°	160.2	151.9	146.3	142.1	139.3	142.1	146.3	156.1	153.3	151.9	149.1
85°	125.4	111.5	104.5	105.9	98.9	100.3	112.9	118.4	118.4	121.2	118.4
87.5°	71.1	68.3	51.6	47.4	50.2	59.9	66.9	73.9	73.9	69.7	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: P158943

CATALOG NUMBER: VST-F10-LED-E-U-SLL-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°	2251.8	2254.6	2256.0	2261.6	2264.4	2265.8	2267.2	2270.0	2271.4	2270.0	2276.9
5°	2263.0	2263.0	2260.2	2264.4	2265.8	2265.8	2263.0	2265.8	2265.8	2265.8	2272.8
7.5°	2292.3	2283.9	2279.7	2274.1	2270.0	2264.4	2257.4	2257.4	2256.0	2257.4	2261.6
10°	2322.9	2310.4	2295.0	2281.1	2268.6	2258.8	2246.3	2242.1	2240.7	2239.3	2250.5
12.5°	2346.6	2324.3	2300.6	2276.9	2251.8	2235.1	2214.2	2201.7	2200.3	2200.3	2214.2
15°	2329.9	2293.7	2247.7	2205.9	2183.6	2159.9	2136.2	2120.9	2119.5	2122.3	2130.6
17.5°	2246.3	2187.7	2147.3	2106.9	2077.7	2058.2	2042.8	2040.0	2045.6	2040.0	2051.2
20°	2104.1	2041.4	2013.6	1981.5	1970.4	1956.4	1934.1	1914.6	1914.6	1889.5	1896.5
22.5°	1920.2	1885.4	1849.1	1824.1	1815.7	1792.0	1768.3	1741.8	1739.1	1708.4	1704.2
25°	1727.9	1693.1	1663.8	1658.2	1633.1	1601.1	1578.8	1548.1	1541.2	1510.5	1506.3
27.5°	1531.4	1503.6	1474.3	1457.6	1443.6	1408.8	1389.3	1353.1	1339.1	1305.7	1301.5
30°	1344.7	1325.2	1290.4	1276.4	1249.9	1209.5	1167.7	1145.4	1134.3	1099.4	1088.3
32.5°	1169.1	1138.5	1112.0	1095.3	1061.8	1015.8	978.2	946.2	925.3	883.5	872.3
35°	1001.9	971.2	958.7	915.5	886.2	855.6	804.0	784.5	746.9	714.9	703.7
37.5°	854.2	824.9	808.2	772.0	742.7	712.1	681.4	656.3	638.2	631.2	631.2
40°	727.4	712.1	691.2	664.7	645.2	622.9	606.2	597.8	596.4	599.2	606.2
42.5°	636.8	620.1	606.2	592.2	578.3	575.5	571.3	576.9	583.9	590.8	597.8
45°	568.5	554.6	546.2	540.7	539.3	543.5	551.8	560.2	572.7	581.1	586.7
47.5°	519.8	508.6	505.8	504.4	511.4	523.9	535.1	547.6	557.4	565.7	571.3
50°	478.0	468.2	466.8	465.4	475.2	486.3	496.1	512.8	519.8	525.3	529.5
52.5°	448.7	440.3	436.2	437.5	447.3	457.1	471.0	483.5	493.3	497.5	501.6
55°	425.0	422.2	412.5	416.6	426.4	438.9	452.9	466.8	476.6	483.5	490.5
57.5°	406.9	399.9	393.0	399.9	409.7	422.2	438.9	451.5	464.0	473.8	480.7
60°	387.4	381.8	376.2	383.2	393.0	405.5	418.0	434.8	450.1	459.8	466.8
62.5°	370.7	366.5	360.9	362.3	366.5	374.8	381.8	397.1	411.1	423.6	432.0
65°	347.0	345.6	337.2	338.6	341.4	349.8	355.3	369.3	383.2	394.4	401.3
67.5°	312.1	309.4	309.4	313.5	314.9	319.1	323.3	337.2	348.4	356.7	365.1
70°	277.3	275.9	275.9	278.7	277.3	281.5	287.1	299.6	313.5	321.9	330.3
72.5°	243.9	243.9	242.5	245.3	245.3	246.6	253.6	264.8	277.3	284.3	289.8
75°	214.6	213.2	213.2	213.2	214.6	214.6	221.6	231.3	243.9	248.0	256.4
77.5°	188.1	188.1	188.1	188.1	189.5	188.1	192.3	199.3	203.4	210.4	210.4
80°	165.8	164.4	165.8	167.2	167.2	165.8	165.8	167.2	168.6	168.6	168.6
82.5°	146.3	142.1	144.9	151.9	151.9	151.9	150.5	140.7	133.8	133.8	136.6
85°	117.1	117.1	118.4	128.2	129.6	124.0	129.6	115.7	101.7	97.5	100.3
87.5°	72.5	57.1	69.7	79.4	79.4	75.2	83.6	78.0	65.5	53.0	50.2
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: P158943
CATALOG NUMBER: VST-F10-LED-E-U-SLL-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°	2282.5	2283.9	2292.3	2296.4	2296.4	2302.0	2304.8	2313.2	2311.8	2311.8	2314.6	2.5°
5°	2279.7	2283.9	2292.3	2297.8	2300.6	2307.6	2313.2	2322.9	2321.5	2324.3	2325.7	5°
7.5°	2270.0	2281.1	2289.5	2300.6	2310.4	2315.9	2322.9	2331.3	2328.5	2329.9	2328.5	7.5°
10°	2261.6	2272.8	2289.5	2304.8	2318.7	2327.1	2331.3	2341.0	2339.6	2342.4	2342.4	10°
12.5°	2228.2	2247.7	2268.6	2292.3	2313.2	2335.5	2349.4	2370.3	2380.0	2392.6	2406.5	12.5°
15°	2143.2	2165.5	2198.9	2225.4	2265.8	2296.4	2336.9	2377.3	2413.5	2448.3	2488.7	15°
17.5°	2059.6	2069.3	2095.8	2132.0	2168.2	2214.2	2263.0	2335.5	2401.0	2472.0	2550.1	17.5°
20°	1904.9	1921.6	1939.7	1982.9	2026.1	2091.6	2151.5	2246.3	2342.4	2453.9	2573.7	20°
22.5°	1714.0	1730.7	1750.2	1799.0	1851.9	1918.8	1991.3	2097.2	2225.4	2370.3	2530.5	22.5°
25°	1507.7	1517.5	1532.8	1581.6	1613.6	1701.4	1789.2	1899.3	2038.6	2225.4	2412.1	25°
27.5°	1280.6	1298.7	1311.3	1333.6	1407.4	1482.7	1574.6	1693.1	1861.7	2052.6	2278.3	27.5°
30°	1063.2	1078.5	1071.6	1119.0	1167.7	1247.2	1346.1	1477.1	1638.7	1865.9	2126.4	30°
32.5°	850.0	861.2	857.0	890.4	939.2	1018.6	1112.0	1254.1	1425.5	1668.0	1950.9	32.5°
35°	700.9	703.7	719.0	734.4	776.2	840.3	919.7	1043.7	1219.3	1442.2	1741.8	35°
37.5°	631.2	636.8	646.6	667.5	698.1	744.1	809.6	905.8	1056.3	1252.7	1520.3	37.5°
40°	610.3	614.5	620.1	634.0	663.3	703.7	762.2	843.1	953.1	1119.0	1336.3	40°
42.5°	600.6	600.6	600.6	608.9	631.2	674.4	741.3	820.8	916.9	1042.3	1217.9	42.5°
45°	586.7	586.7	585.3	589.4	604.8	648.0	720.4	809.6	912.7	1032.6	1184.5	45°
47.5°	571.3	569.9	565.7	565.7	575.5	618.7	693.9	790.1	903.0	1040.9	1204.0	47.5°
50°	529.5	529.5	529.5	533.7	542.1	581.1	661.9	763.6	893.2	1046.5	1234.6	50°
52.5°	505.8	507.2	511.4	511.4	519.8	560.2	645.2	758.0	898.8	1067.4	1273.6	52.5°
55°	494.7	498.9	503.0	503.0	510.0	551.8	639.6	762.2	919.7	1110.6	1340.5	55°
57.5°	484.9	489.1	491.9	491.9	497.5	533.7	624.3	755.3	932.2	1152.4	1422.7	57.5°
60°	466.8	469.6	471.0	471.0	472.4	503.0	589.4	721.8	904.4	1149.6	1467.3	60°
62.5°	433.4	438.9	440.3	441.7	441.7	471.0	544.8	667.5	844.4	1107.8	1454.8	62.5°
65°	408.3	411.1	415.3	418.0	423.6	443.1	501.6	602.0	766.4	1024.2	1385.1	65°
67.5°	369.3	373.5	377.6	383.2	388.8	401.3	447.3	528.1	660.5	882.1	1229.0	67.5°
70°	334.4	335.8	340.0	347.0	348.4	355.3	388.8	444.5	540.7	707.9	989.4	70°
72.5°	291.2	294.0	299.6	308.0	308.0	313.5	333.0	362.3	423.6	540.7	730.2	72.5°
75°	253.6	256.4	260.6	260.6	253.6	255.0	268.9	289.8	335.8	406.9	532.3	75°
77.5°	210.4	216.0	220.2	211.8	209.0	213.2	220.2	235.5	268.9	323.3	399.9	77.5°
80°	174.2	177.0	178.4	179.8	177.0	181.2	186.7	196.5	218.8	260.6	316.3	80°
82.5°	139.3	142.1	146.3	151.9	151.9	167.2	168.6	168.6	181.2	207.6	248.0	82.5°
85°	103.1	108.7	114.3	121.2	122.6	131.0	126.8	125.4	129.6	154.7	171.4	85°
87.5°	53.0	57.1	59.9	65.5	58.5	61.3	61.3	57.1	50.2	62.7	69.7	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: P158943

NUMBER: VST-F10-LED-E-U-SLL-8030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
2328.5	2328.5	2328.5	2328.5	2328.5	2328.5	2328.5
2317.3	2314.6	2317.3	2317.3	2321.5	2318.7	2466.4
2328.5	2325.7	2328.5	2331.3	2335.5	2335.5	2498.5
2329.9	2329.9	2327.1	2334.1	2339.6	2345.2	2529.2
2346.6	2346.6	2349.4	2350.8	2363.3	2377.3	2579.3
2414.9	2421.9	2434.4	2438.6	2460.9	2476.2	2707.5
2519.4	2558.4	2583.5	2591.9	2611.4	2640.6	2923.5
2625.3	2690.8	2759.1	2800.9	2826.0	2860.8	3188.3
2704.7	2827.4	2944.4	3048.9	3108.8	3177.1	3558.9
2711.7	2906.8	3104.7	3298.3	3458.6	3585.4	4060.6
2644.8	2901.2	3174.3	3471.1	3747.0	3975.6	4637.5
2559.8	2874.7	3223.1	3602.1	3964.4	4301.6	5062.5
2452.5	2830.1	3231.5	3657.9	4082.9	4488.4	5304.9
2289.5	2697.8	3131.1	3602.1	4095.4	4588.7	5461.0
2080.5	2497.1	2941.6	3478.1	4036.9	4629.1	5592.0
1867.3	2278.3	2756.3	3312.3	3943.5	4622.1	5645.0
1641.5	2049.8	2538.9	3135.3	3816.7	4558.0	5635.2
1488.2	1860.3	2339.6	2955.6	3676.0	4473.0	5569.7
1399.0	1725.1	2182.2	2791.1	3547.8	4371.3	5487.5
1397.7	1684.7	2098.6	2674.1	3418.2	4258.4	5376.0
1446.4	1709.8	2088.8	2623.9	3347.1	4176.2	5254.8
1503.6	1779.5	2140.4	2642.0	3345.7	4140.0	5169.8
1594.1	1897.9	2253.2	2720.1	3382.0	4134.4	5065.3
1709.8	2058.2	2456.7	2912.4	3522.7	4244.5	5072.2
1828.2	2246.3	2722.8	3241.2	3800.0	4500.9	5292.4
1871.4	2391.2	2993.2	3627.2	4215.3	4885.5	5746.7
1833.8	2424.6	3157.6	3926.8	4619.4	5335.6	6288.7
1694.5	2289.5	3090.7	4011.8	4852.1	5654.7	6830.8
1394.9	1953.6	2786.9	3820.9	4834.0	5720.2	7025.9
1022.8	1514.7	2265.8	3246.8	4297.5	5310.5	6733.3
738.5	1071.6	1635.9	2445.5	3397.3	4276.6	5647.7
529.5	742.7	1061.8	1606.7	2314.6	2977.8	4025.7
380.4	504.4	661.9	964.3	1410.2	1828.2	2529.2
280.1	345.6	434.8	599.2	830.5	1064.6	1523.1
190.9	203.4	262.0	353.9	544.8	783.1	1034.0
72.5	82.2	96.1	144.9	243.9	280.1	197.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)