

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: P158911

Luminaire Tested: **VST-E07-LED-E-U-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158911
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-E07-LED-E-U-SLL-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (147) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19302 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 172.5
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

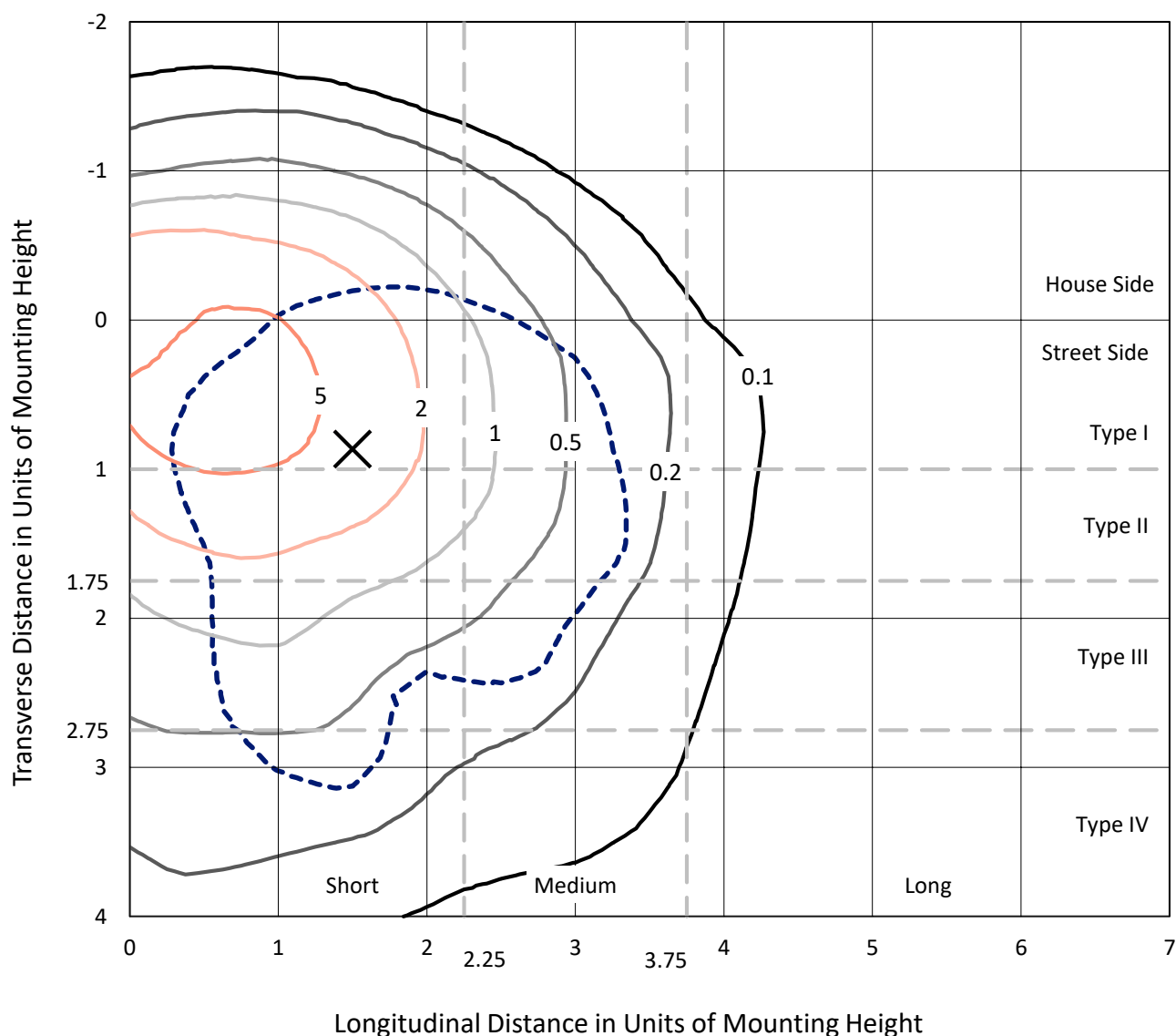


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

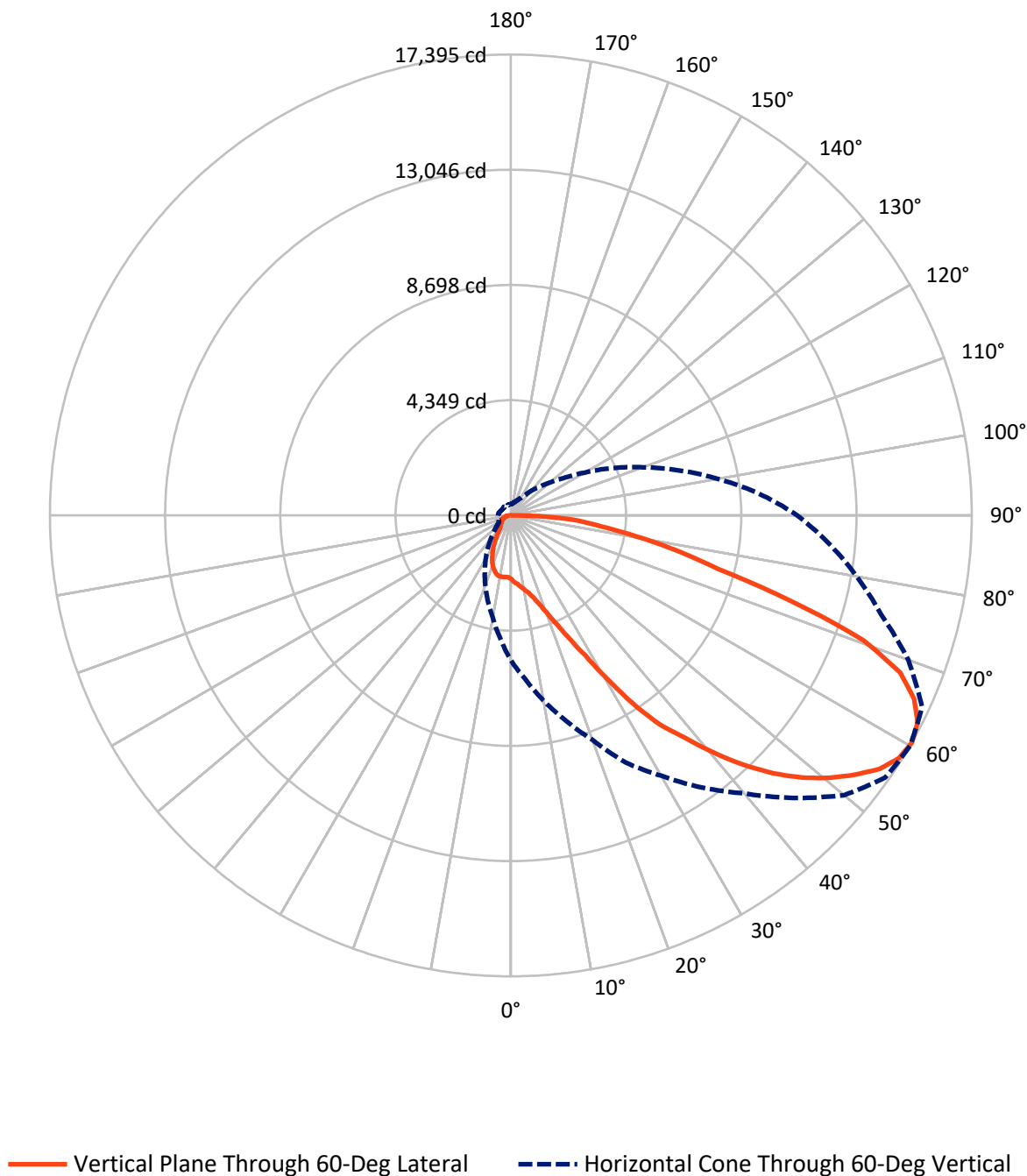


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4346.2	0.0	4346.2
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	14955.8	0.0	14955.8
	% Fixture	77.5	0.0	77.5
Total	Lumens	19302.0	0.0	19302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.8	1.2
10°-20°	764.7	4.0
20°-30°	1451.0	7.5
30°-40°	2285.1	11.8
40°-50°	3189.4	16.5
50°-60°	3944.5	20.4
60°-70°	4088.7	21.2
70°-80°	2572.8	13.3
80°-90°	769.1	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°	19302.0	100.0
0°-180°	19302.0	100.0

Coefficient of Utilization



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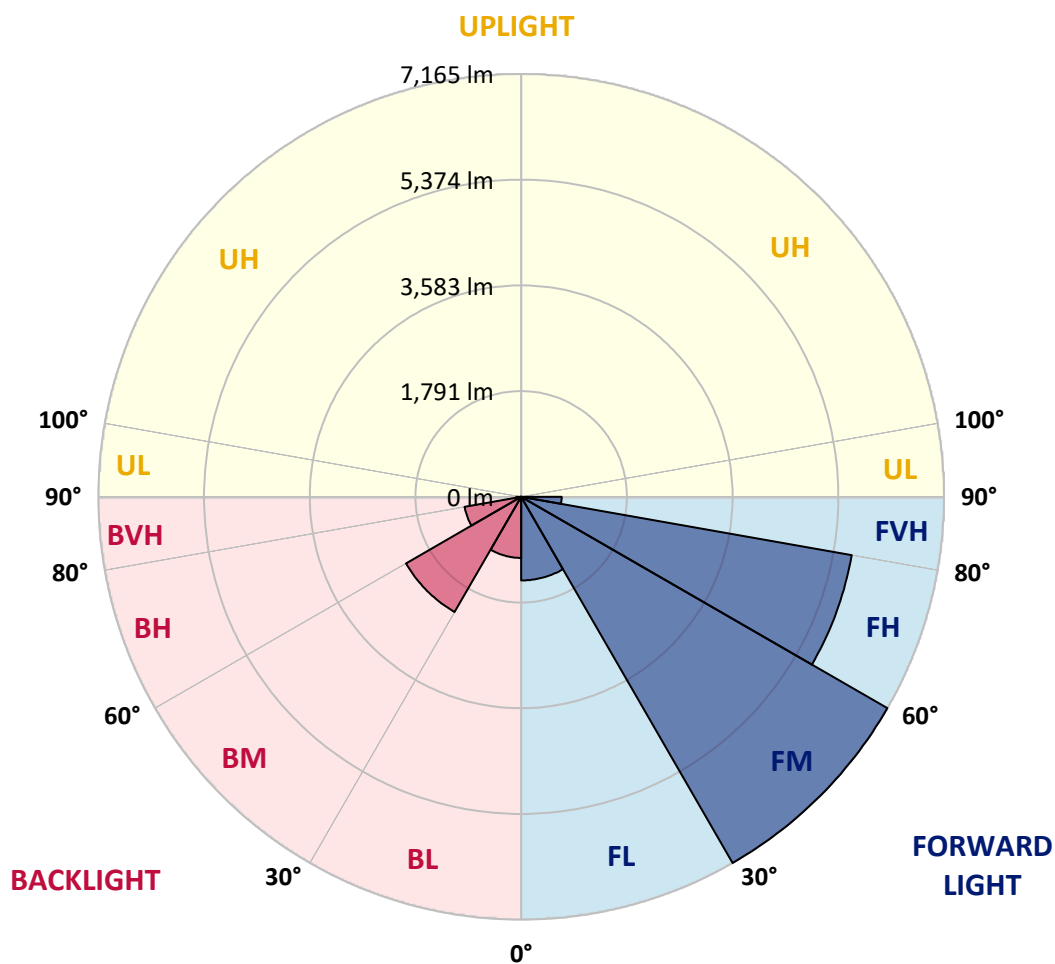
CATALOG NUMBER: VST-E07-LED-E-U-SLL-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1417.1	7.3			
FM	(30°-60°)	7165.2	37.1			
FH	(60°-80°)	5688.1	29.5			G3/7500
FVH	(80°-90°)	685.4	3.6			G4/750
BL	(0°-30°)	1035.4	5.4	B3/2500		
BM	(30°-60°)	2253.8	11.7	B2/2500		
BH	(60°-80°)	973.4	5.0	B2/1000		G2/1000
BVH	(80°-90°)	83.7	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°	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5
2.5°	2542.7	2539.8	2539.8	2539.8	2538.4	2535.5	2539.8	2538.4	2531.2	2526.9	2531.2
5°	2575.7	2577.2	2581.5	2582.9	2582.9	2587.2	2598.7	2600.2	2598.7	2601.6	2608.8
7.5°	2607.3	2614.5	2618.8	2626.0	2634.6	2641.8	2661.9	2682.0	2695.0	2705.0	2707.9
10°	2659.0	2670.5	2683.5	2702.1	2722.3	2758.2	2775.4	2795.5	2808.5	2828.6	2832.9
12.5°	2791.2	2805.6	2814.2	2842.9	2868.8	2903.3	2927.7	2933.4	2963.6	2980.8	3000.9
15°	3013.9	3035.4	3065.6	3082.8	3111.6	3141.7	3163.3	3192.0	3196.3	3219.3	3235.1
17.5°	3286.8	3317.0	3378.8	3420.4	3457.8	3487.9	3531.0	3564.1	3571.3	3597.1	3564.1
20°	3668.9	3742.2	3752.3	3835.6	3868.6	3929.0	4015.2	4031.0	4072.6	4031.0	4006.5
22.5°	4186.1	4301.0	4332.6	4413.1	4453.3	4545.2	4571.1	4655.9	4684.6	4653.0	4586.9
25°	4780.8	4959.0	5050.9	5174.4	5194.6	5382.7	5402.9	5502.0	5448.8	5372.7	5374.1
27.5°	5219.0	5522.1	5759.1	5970.3	6118.3	6330.9	6496.1	6542.0	6491.8	6392.6	6358.2
30°	5468.9	5812.3	6152.7	6444.4	6789.1	7113.8	7451.4	7619.4	7648.2	7699.9	7491.6
32.5°	5629.8	6070.9	6476.0	6836.5	7189.9	7608.0	8060.5	8492.9	8856.3	9130.7	9001.4
35°	5764.9	6309.3	6827.9	7264.6	7682.7	8138.0	8594.9	9104.8	9706.8	10058.7	10132.0
37.5°	5819.5	6484.6	7119.5	7679.8	8267.3	8780.2	9234.1	9688.1	10320.2	10947.9	11141.9
40°	5809.4	6570.8	7293.4	7997.3	8717.0	9357.7	9889.2	10426.5	11166.3	11900.4	12216.4
42.5°	5741.9	6583.7	7404.0	8208.4	9028.7	9880.6	10560.1	11179.2	11888.9	12829.8	13276.6
45°	5657.1	6539.2	7427.0	8316.2	9260.0	10245.5	11104.5	11870.2	12702.0	13631.4	14171.5
47.5°	5542.2	6468.8	7398.2	8353.5	9363.4	10479.6	11489.5	12410.3	13325.4	14395.6	15080.9
50°	5417.2	6368.2	7339.3	8326.2	9389.3	10607.5	11709.3	12758.0	13826.8	14981.8	15848.0
52.5°	5329.6	6260.5	7286.2	8270.2	9363.4	10646.3	11789.7	12944.7	14134.2	15328.0	16362.3
55°	5221.9	6116.8	7144.0	8139.5	9268.6	10624.7	11781.1	13009.4	14218.9	15461.6	16642.4
57.5°	5229.0	6050.7	7023.3	7982.9	9074.7	10425.0	11618.8	12944.7	14085.3	15375.4	16652.5
60°	5456.0	6193.0	7086.5	8014.5	9017.2	10298.6	11343.0	12528.1	13693.2	15078.0	16419.7
62.5°	5924.3	6599.5	7411.1	8330.5	9340.4	10551.4	11218.0	11835.7	12870.0	14530.7	16023.3
65°	6483.1	7092.2	7796.1	8671.0	9803.0	10962.3	11147.6	11272.6	11795.5	13466.2	15279.1
67.5°	7042.0	7586.4	8139.5	8864.9	10065.9	11080.1	10860.3	10562.9	10844.5	12229.3	13816.7
70°	7243.1	7965.7	8329.1	8827.6	9866.2	10805.7	10396.3	9647.9	9745.5	11004.0	12164.7
72.5°	6941.4	7971.4	8092.1	8277.4	8977.0	9860.5	9428.1	8465.6	8445.5	9406.5	10344.6
75°	5822.3	7271.8	7270.4	7201.4	7359.4	7862.2	7638.1	7057.8	7303.4	8060.5	8369.3
77.5°	4150.2	5674.4	5746.2	5282.2	5270.7	5497.7	5632.7	6307.9	7198.5	7623.8	7526.1
80°	2607.3	3828.4	4137.3	3564.1	3442.0	3763.8	4598.4	5581.0	6677.1	7059.2	6730.2
82.5°	1570.1	2466.6	3124.5	2799.8	2771.1	3357.2	4279.5	4661.6	4990.6	5397.1	4846.9
85°	1065.9	1643.4	2137.6	2202.2	2453.6	3059.8	3460.6	3291.1	3299.7	3193.4	2909.0
87.5°	204.0	448.2	732.6	893.5	991.2	1331.7	1448.0	1311.6	1384.8	1012.8	1107.6
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°	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5
2.5°	2524.0	2524.0	2524.0	2516.8	2518.3	2508.2	2503.9	2503.9	2499.6	2499.6	2498.2
5°	2603.0	2594.4	2598.7	2597.3	2597.3	2582.9	2575.7	2575.7	2557.1	2558.5	2552.7
7.5°	2720.8	2719.4	2723.7	2715.1	2703.6	2692.1	2680.6	2674.9	2649.0	2633.2	2623.1
10°	2854.4	2853.0	2857.3	2855.9	2835.7	2814.2	2782.6	2759.6	2728.0	2703.6	2679.2
12.5°	3000.9	2999.5	2996.6	2983.7	2962.2	2927.7	2887.5	2848.7	2801.3	2769.7	2733.8
15°	3229.4	3225.0	3207.8	3189.1	3166.2	3113.0	3042.6	2986.6	2923.4	2868.8	2809.9
17.5°	3566.9	3531.0	3528.2	3486.5	3424.7	3354.3	3288.3	3194.9	3104.4	3022.5	2942.0
20°	4032.4	3949.1	3926.1	3878.7	3796.8	3723.5	3579.9	3454.9	3331.4	3219.3	3117.3
22.5°	4539.5	4479.2	4423.1	4345.6	4233.5	4127.2	3944.8	3788.2	3630.2	3486.5	3373.0
25°	5247.7	5142.8	5042.3	4918.7	4763.6	4637.2	4428.9	4270.9	4064.0	3933.3	3769.5
27.5°	6162.8	5983.2	5813.7	5707.4	5434.5	5250.6	4984.8	4780.8	4530.9	4354.2	4160.2
30°	7353.7	7145.4	6894.0	6526.2	6201.6	5836.7	5507.7	5246.3	4980.5	4733.4	4509.3
32.5°	8830.5	8462.7	8064.8	7481.5	6948.6	6428.6	5990.4	5668.6	5397.1	5089.7	4773.6
35°	10078.8	9699.6	9135.0	8393.7	7735.8	7141.1	6616.7	6177.2	5822.3	5433.0	5015.0
37.5°	11064.3	10631.9	10101.8	9314.6	8619.3	7942.7	7392.5	6832.2	6366.8	5830.9	5302.3
40°	12193.4	11759.6	11176.3	10360.4	9537.2	8803.2	8158.2	7579.2	7007.5	6353.9	5674.4
42.5°	13177.5	12864.3	12273.9	11430.6	10518.4	9701.0	8995.7	8333.4	7586.4	6855.2	6050.7
45°	14203.1	13884.2	13324.0	12441.9	11472.3	10561.5	9718.2	9005.7	8123.7	7253.1	6332.3
47.5°	15109.6	14782.1	14216.1	13339.8	12309.8	11350.2	10422.2	9560.2	8536.0	7536.1	6516.2
50°	15974.4	15573.6	15055.0	14181.6	13081.2	12055.5	11048.5	9942.3	8856.3	7734.4	6641.2
52.5°	16768.8	16258.8	15767.5	14868.3	13678.8	12607.1	11483.8	10267.0	9053.1	7891.0	6725.9
55°	17219.9	16890.9	16303.4	15419.9	14104.0	12986.4	11759.6	10495.4	9248.5	8001.6	6761.8
57.5°	17359.2	17278.8	16786.1	15738.8	14354.0	13194.7	11946.3	10676.4	9379.2	8033.2	6711.6
60°	17248.6	17395.2	17125.1	15962.9	14467.5	13256.5	12038.3	10805.7	9402.2	7932.6	6559.3
62.5°	16893.8	17227.1	17192.6	16037.6	14408.6	13178.9	12028.2	10739.6	9186.7	7619.4	6217.4
65°	16310.6	16730.0	16878.0	15760.4	14076.7	12895.9	11772.5	10324.5	8587.7	7007.5	5644.2
67.5°	15213.0	15848.0	15991.6	14852.5	13209.1	12113.0	11035.6	9462.5	7478.7	6060.8	4749.2
70°	13013.7	14124.1	14318.1	13122.9	11679.1	10716.6	9803.0	8096.4	6227.4	4861.3	3644.5
72.5°	10389.1	11087.3	11483.8	10660.6	9586.1	8887.9	8195.5	6211.6	4698.9	3587.1	2508.2
75°	8122.2	8080.6	8435.4	7888.1	7256.0	6929.9	6409.9	4334.1	3147.5	2376.0	1587.4
77.5°	6944.3	6409.9	6006.2	5621.2	5246.3	5142.8	4644.4	2689.2	1945.1	1423.6	949.6
80°	5772.0	4796.6	4059.7	3518.1	3384.5	3588.5	3039.7	1585.9	1152.1	817.4	596.2
82.5°	4124.3	3450.6	2808.5	2465.1	2236.7	2561.4	1792.8	880.6	624.9	489.9	395.1
85°	2673.4	2555.6	2528.3	2416.3	2139.0	2019.8	1361.8	758.5	468.3	304.5	245.6
87.5°	1028.6	1318.8	1521.3	1630.5	1762.6	1570.1	709.7	261.5	257.1	158.0	119.2
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°	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5
2.5°	2488.1	2482.4	2480.9	2476.6	2473.7	2473.7	2466.6	2335.8	2334.4	2334.4	2333.0
5°	2541.3	2534.1	2526.9	2525.5	2519.7	2519.7	2512.5	2381.8	2381.8	2381.8	2378.9
7.5°	2613.1	2598.7	2590.1	2585.8	2577.2	2581.5	2587.2	2455.1	2456.5	2455.1	2457.9
10°	2664.8	2656.2	2646.1	2643.2	2637.5	2641.8	2650.4	2519.7	2524.0	2525.5	2528.3
12.5°	2715.1	2700.7	2687.8	2683.5	2680.6	2692.1	2702.1	2575.7	2580.0	2584.3	2584.3
15°	2776.8	2752.4	2735.2	2725.1	2719.4	2730.9	2745.2	2620.3	2621.7	2626.0	2624.6
17.5°	2881.7	2845.8	2805.6	2798.4	2779.7	2784.0	2786.9	2647.6	2641.8	2631.8	2614.5
20°	3044.0	2989.5	2934.9	2911.9	2874.5	2858.7	2827.1	2649.0	2613.1	2582.9	2557.1
22.5°	3276.8	3196.3	3137.4	3098.6	3022.5	2969.3	2883.2	2641.8	2574.3	2522.6	2482.4
25°	3653.1	3556.9	3466.4	3368.7	3249.5	3143.2	3016.8	2705.0	2600.2	2511.1	2433.5
27.5°	4019.5	3867.2	3727.8	3581.3	3413.2	3253.8	3075.6	2725.1	2605.9	2491.0	2364.6
30°	4293.8	4072.6	3861.4	3647.4	3427.6	3220.7	3019.6	2656.2	2514.0	2384.7	2251.1
32.5°	4460.5	4173.2	3898.8	3633.0	3374.5	3141.7	2916.2	2536.9	2380.4	2228.1	2085.9
35°	4618.5	4262.2	3921.8	3608.6	3312.7	3054.1	2811.3	2397.6	2210.8	2048.5	1868.9
37.5°	4813.9	4355.6	3936.1	3564.1	3222.2	2926.2	2659.0	2222.3	2035.6	1835.9	1666.4
40°	5048.0	4451.9	3921.8	3475.0	3081.4	2758.2	2475.2	2038.5	1830.2	1636.2	1469.6
42.5°	5270.7	4536.6	3884.4	3355.8	2927.7	2582.9	2307.1	1874.7	1666.4	1468.2	1302.9
45°	5435.9	4608.4	3865.7	3272.5	2809.9	2463.7	2159.1	1742.5	1522.7	1323.1	1155.0
47.5°	5550.8	4651.5	3857.1	3226.5	2728.0	2340.1	2024.1	1610.4	1379.1	1178.0	1014.2
50°	5611.2	4650.1	3835.6	3176.2	2607.3	2192.2	1884.8	1476.8	1246.9	1050.1	900.7
52.5°	5627.0	4624.2	3789.6	3084.3	2460.8	2044.2	1735.3	1337.4	1130.6	942.4	791.5
55°	5591.0	4561.0	3693.4	2930.6	2304.2	1887.6	1598.9	1228.2	1017.1	838.9	721.1
57.5°	5489.0	4449.0	3512.4	2719.4	2139.0	1742.5	1442.3	1096.1	893.5	744.1	646.4
60°	5299.4	4212.0	3229.4	2469.4	1929.3	1521.3	1226.8	923.7	762.8	650.8	571.7
62.5°	4948.9	3839.9	2831.4	2124.7	1627.6	1234.0	979.7	736.9	616.3	543.0	494.2
65°	4384.3	3279.6	2370.3	1673.6	1236.9	897.8	728.3	554.5	466.9	422.3	408.0
67.5°	3578.4	2532.6	1723.9	1162.2	837.5	629.2	507.1	405.1	363.4	346.2	340.5
70°	2601.6	1725.3	1116.2	734.1	553.1	439.6	383.6	326.1	303.1	298.8	298.8
72.5°	1633.4	1048.7	683.8	502.8	419.5	356.3	327.5	287.3	278.7	275.8	271.5
75°	958.2	636.4	484.1	412.3	359.1	318.9	294.5	261.5	255.7	254.3	250.0
77.5°	610.5	458.3	390.7	352.0	324.7	288.7	267.2	232.7	231.3	229.8	228.4
80°	438.1	380.7	341.9	311.7	284.4	251.4	238.5	211.2	208.3	206.9	209.7
82.5°	331.8	314.6	298.8	275.8	238.5	214.0	204.0	185.3	186.8	179.6	178.1
85°	228.4	225.5	224.1	214.0	186.8	165.2	158.0	148.0	155.1	148.0	139.3
87.5°	112.1	110.6	102.0	120.7	112.1	89.1	80.4	89.1	99.1	96.2	89.1
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: P158911

CATALOG NUMBER: VST-E07-LED-E-U-SLL-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5
2.5°	2327.2	2321.5	2325.8	2322.9	2322.9	2321.5	2324.3	2320.0	2317.2	2320.0	2321.5
5°	2373.2	2366.0	2367.4	2357.4	2361.7	2351.6	2354.5	2347.3	2340.1	2337.3	2337.3
7.5°	2450.8	2443.6	2434.9	2433.5	2417.7	2412.0	2401.9	2396.2	2391.9	2381.8	2376.0
10°	2521.1	2509.6	2499.6	2498.2	2482.4	2468.0	2455.1	2443.6	2436.4	2422.0	2414.8
12.5°	2578.6	2567.1	2551.3	2542.7	2526.9	2509.6	2501.0	2483.8	2473.7	2457.9	2445.0
15°	2611.6	2591.5	2568.5	2552.7	2529.8	2511.1	2498.2	2485.2	2475.2	2455.1	2436.4
17.5°	2595.8	2562.8	2531.2	2502.5	2470.9	2453.6	2434.9	2419.1	2416.3	2393.3	2364.6
20°	2529.8	2491.0	2449.3	2410.5	2368.9	2344.4	2321.5	2297.0	2289.9	2262.6	2225.2
22.5°	2449.3	2404.8	2357.4	2310.0	2256.8	2222.3	2187.9	2157.7	2133.3	2093.0	2039.9
25°	2367.4	2301.3	2232.4	2172.1	2110.3	2067.2	2031.3	1998.2	1969.5	1904.9	1850.3
27.5°	2259.7	2156.3	2085.9	2016.9	1942.2	1886.2	1846.0	1800.0	1768.4	1693.7	1636.2
30°	2121.8	2018.3	1917.8	1848.8	1774.1	1713.8	1662.1	1596.0	1550.0	1495.4	1442.3
32.5°	1948.0	1844.5	1742.5	1665.0	1603.2	1528.5	1463.8	1400.6	1347.5	1294.3	1252.7
35°	1736.8	1636.2	1540.0	1462.4	1393.5	1334.6	1272.8	1218.2	1157.9	1100.4	1076.0
37.5°	1514.1	1406.4	1300.1	1232.6	1178.0	1136.3	1078.8	1034.3	979.7	945.2	916.5
40°	1320.2	1205.3	1104.7	1047.2	1004.1	956.7	909.3	874.9	836.1	801.6	780.0
42.5°	1156.4	1048.7	962.5	913.6	861.9	810.2	774.3	745.6	721.1	695.3	669.4
45°	1005.6	902.2	830.3	770.0	726.9	685.2	660.8	647.9	633.5	617.7	600.5
47.5°	879.2	790.1	719.7	663.7	619.2	590.4	578.9	574.6	568.9	555.9	547.3
50°	782.9	709.7	637.8	587.5	550.2	535.8	522.9	518.6	511.4	507.1	501.4
52.5°	702.5	624.9	564.6	518.6	495.6	489.9	484.1	478.4	476.9	474.1	471.2
55°	636.4	568.9	512.8	478.4	466.9	462.6	461.1	455.4	453.9	453.9	449.6
57.5°	577.5	520.0	469.8	448.2	441.0	436.7	433.8	431.0	431.0	433.8	432.4
60°	517.2	468.3	438.1	426.7	422.3	415.2	408.0	405.1	406.5	413.7	413.7
62.5°	458.3	422.3	403.7	399.4	395.1	389.3	380.7	377.8	380.7	389.3	393.6
65°	393.6	377.8	372.1	369.2	366.3	362.0	356.3	353.4	354.8	359.1	364.9
67.5°	334.7	333.3	333.3	334.7	333.3	331.8	329.0	324.7	323.2	323.2	326.1
70°	298.8	298.8	303.1	303.1	301.7	301.7	297.4	293.1	290.2	287.3	288.7
72.5°	271.5	271.5	272.9	274.4	272.9	272.9	267.2	264.3	257.1	255.7	252.8
75°	248.5	245.6	245.6	244.2	242.8	244.2	238.5	231.3	228.4	227.0	224.1
77.5°	225.5	219.8	216.9	214.0	215.5	214.0	209.7	205.4	201.1	199.7	198.2
80°	199.7	191.1	186.8	179.6	183.9	185.3	182.4	178.1	176.7	175.3	173.8
82.5°	165.2	156.6	150.8	146.5	143.7	146.5	150.8	160.9	158.0	156.6	153.7
85°	129.3	114.9	107.7	109.2	102.0	103.4	116.4	122.1	122.1	125.0	122.1
87.5°	73.3	70.4	53.2	48.8	51.7	61.8	69.0	76.1	76.1	71.8	80.4
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: P158911

CATALOG NUMBER: VST-E07-LED-E-U-SLL-7050

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5
2.5°	2321.5	2324.3	2325.8	2331.5	2334.4	2335.8	2337.3	2340.1	2341.6	2340.1	2347.3
5°	2333.0	2333.0	2330.1	2334.4	2335.8	2335.8	2333.0	2335.8	2335.8	2335.8	2343.0
7.5°	2363.1	2354.5	2350.2	2344.4	2340.1	2334.4	2327.2	2327.2	2325.8	2327.2	2331.5
10°	2394.7	2381.8	2366.0	2351.6	2338.7	2328.6	2315.7	2311.4	2310.0	2308.5	2320.0
12.5°	2419.1	2396.2	2371.7	2347.3	2321.5	2304.2	2282.7	2269.7	2268.3	2268.3	2282.7
15°	2401.9	2364.6	2317.2	2274.1	2251.1	2226.6	2202.2	2186.4	2185.0	2187.9	2196.5
17.5°	2315.7	2255.4	2213.7	2172.1	2141.9	2121.8	2106.0	2103.1	2108.9	2103.1	2114.6
20°	2169.2	2104.5	2075.8	2042.8	2031.3	2016.9	1993.9	1973.8	1973.8	1948.0	1955.1
22.5°	1979.6	1943.6	1906.3	1880.4	1871.8	1847.4	1823.0	1795.7	1792.8	1761.2	1756.9
25°	1781.3	1745.4	1715.2	1709.5	1683.6	1650.6	1627.6	1596.0	1588.8	1557.2	1552.9
27.5°	1578.8	1550.0	1519.9	1502.6	1488.3	1452.3	1432.2	1394.9	1380.5	1346.0	1341.7
30°	1386.3	1366.2	1330.2	1315.9	1288.6	1246.9	1203.8	1180.8	1169.3	1133.4	1121.9
32.5°	1205.3	1173.7	1146.4	1129.1	1094.6	1047.2	1008.5	975.4	953.9	910.8	899.3
35°	1032.9	1001.3	988.3	943.8	913.6	882.0	828.9	808.8	770.0	736.9	725.5
37.5°	880.6	850.4	833.2	795.8	765.7	734.1	702.5	676.6	657.9	650.8	650.8
40°	749.9	734.1	712.5	685.2	665.1	642.1	624.9	616.3	614.8	617.7	624.9
42.5°	656.5	639.3	624.9	610.5	596.2	593.3	589.0	594.7	601.9	609.1	616.3
45°	586.1	571.7	563.1	557.4	555.9	560.3	568.9	577.5	590.4	599.0	604.8
47.5°	535.8	524.3	521.5	520.0	527.2	540.1	551.6	564.6	574.6	583.2	589.0
50°	492.7	482.7	481.2	479.8	489.9	501.4	511.4	528.6	535.8	541.6	545.9
52.5°	462.6	453.9	449.6	451.1	461.1	471.2	485.6	498.5	508.5	512.8	517.2
55°	438.1	435.3	425.2	429.5	439.6	452.5	466.9	481.2	491.3	498.5	505.7
57.5°	419.5	412.3	405.1	412.3	422.3	435.3	452.5	465.4	478.4	488.4	495.6
60°	399.4	393.6	387.9	395.1	405.1	418.0	431.0	448.2	464.0	474.1	481.2
62.5°	382.1	377.8	372.1	373.5	377.8	386.4	393.6	409.4	423.8	436.7	445.3
65°	357.7	356.3	347.6	349.1	352.0	360.6	366.3	380.7	395.1	406.5	413.7
67.5°	321.8	318.9	318.9	323.2	324.7	329.0	333.3	347.6	359.1	367.8	376.4
70°	285.9	284.4	284.4	287.3	285.9	290.2	295.9	308.9	323.2	331.8	340.5
72.5°	251.4	251.4	250.0	252.8	252.8	254.3	261.5	272.9	285.9	293.1	298.8
75°	221.2	219.8	219.8	219.8	221.2	221.2	228.4	238.5	251.4	255.7	264.3
77.5°	193.9	193.9	193.9	193.9	195.4	193.9	198.2	205.4	209.7	216.9	216.9
80°	170.9	169.5	170.9	172.4	172.4	170.9	170.9	172.4	173.8	173.8	173.8
82.5°	150.8	146.5	149.4	156.6	156.6	156.6	155.1	145.1	137.9	137.9	140.8
85°	120.7	120.7	122.1	132.2	133.6	127.9	133.6	119.2	104.9	100.6	103.4
87.5°	74.7	58.9	71.8	81.9	81.9	77.6	86.2	80.4	67.5	54.6	51.7
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: P158911
CATALOG NUMBER: VST-E07-LED-E-U-SLL-7050

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	0°
2.5°	2353.1	2354.5	2363.1	2367.4	2367.4	2373.2	2376.0	2384.7	2383.2	2383.2	2386.1	2.5°
5°	2350.2	2354.5	2363.1	2368.9	2371.7	2378.9	2384.7	2394.7	2393.3	2396.2	2397.6	5°
7.5°	2340.1	2351.6	2360.2	2371.7	2381.8	2387.5	2394.7	2403.3	2400.5	2401.9	2400.5	7.5°
10°	2331.5	2343.0	2360.2	2376.0	2390.4	2399.0	2403.3	2413.4	2412.0	2414.8	2414.8	10°
12.5°	2297.0	2317.2	2338.7	2363.1	2384.7	2407.7	2422.0	2443.6	2453.6	2466.6	2480.9	12.5°
15°	2209.4	2232.4	2266.9	2294.2	2335.8	2367.4	2409.1	2450.8	2488.1	2524.0	2565.7	15°
17.5°	2123.2	2133.3	2160.6	2197.9	2235.3	2282.7	2333.0	2407.7	2475.2	2548.4	2628.9	17.5°
20°	1963.8	1981.0	1999.7	2044.2	2088.7	2156.3	2218.0	2315.7	2414.8	2529.8	2653.3	20°
22.5°	1767.0	1784.2	1804.3	1854.6	1909.2	1978.1	2052.8	2162.0	2294.2	2443.6	2608.8	22.5°
25°	1554.3	1564.4	1580.2	1630.5	1663.5	1754.0	1844.5	1958.0	2101.7	2294.2	2486.7	25°
27.5°	1320.2	1338.9	1351.8	1374.8	1450.9	1528.5	1623.3	1745.4	1919.2	2116.0	2348.8	27.5°
30°	1096.1	1111.9	1104.7	1153.5	1203.8	1285.7	1387.7	1522.7	1689.4	1923.5	2192.2	30°
32.5°	876.3	887.8	883.5	918.0	968.2	1050.1	1146.4	1292.9	1469.6	1719.5	2011.2	32.5°
35°	722.6	725.5	741.3	757.1	800.2	866.2	948.1	1076.0	1257.0	1486.8	1795.7	35°
37.5°	650.8	656.5	666.6	688.1	719.7	767.1	834.6	933.8	1088.9	1291.5	1567.3	37.5°
40°	629.2	633.5	639.3	653.6	683.8	725.5	785.8	869.1	982.6	1153.5	1377.6	40°
42.5°	619.2	619.2	619.2	627.8	650.8	695.3	764.2	846.1	945.2	1074.5	1255.5	42.5°
45°	604.8	604.8	603.4	607.7	623.5	668.0	742.7	834.6	940.9	1064.5	1221.1	45°
47.5°	589.0	587.5	583.2	583.2	593.3	637.8	715.4	814.5	930.9	1073.1	1241.2	47.5°
50°	545.9	545.9	545.9	550.2	558.8	599.0	682.4	787.2	920.8	1078.8	1272.8	50°
52.5°	521.5	522.9	527.2	527.2	535.8	577.5	665.1	781.5	926.6	1100.4	1313.0	52.5°
55°	510.0	514.3	518.6	518.6	525.8	568.9	659.4	785.8	948.1	1144.9	1382.0	55°
57.5°	499.9	504.2	507.1	507.1	512.8	550.2	643.6	778.6	961.1	1188.0	1466.7	57.5°
60°	481.2	484.1	485.6	485.6	487.0	518.6	607.7	744.1	932.3	1185.2	1512.7	60°
62.5°	446.8	452.5	453.9	455.4	455.4	485.6	561.7	688.1	870.5	1142.1	1499.8	62.5°
65°	420.9	423.8	428.1	431.0	436.7	456.8	517.2	620.6	790.1	1055.9	1427.9	65°
67.5°	380.7	385.0	389.3	395.1	400.8	413.7	461.1	544.5	680.9	909.3	1267.0	67.5°
70°	344.8	346.2	350.5	357.7	359.1	366.3	400.8	458.3	557.4	729.8	1019.9	70°
72.5°	300.2	303.1	308.9	317.5	317.5	323.2	343.3	373.5	436.7	557.4	752.8	72.5°
75°	261.5	264.3	268.6	268.6	261.5	262.9	277.3	298.8	346.2	419.5	548.8	75°
77.5°	216.9	222.7	227.0	218.4	215.5	219.8	227.0	242.8	277.3	333.3	412.3	77.5°
80°	179.6	182.4	183.9	185.3	182.4	186.8	192.5	202.6	225.5	268.6	326.1	80°
82.5°	143.7	146.5	150.8	156.6	156.6	172.4	173.8	173.8	186.8	214.0	255.7	82.5°
85°	106.3	112.1	117.8	125.0	126.4	135.0	130.7	129.3	133.6	159.5	176.7	85°
87.5°	54.6	58.9	61.8	67.5	60.3	63.2	63.2	58.9	51.7	64.6	71.8	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: P158911

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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
2400.5	2400.5	2400.5	2400.5	2400.5	2400.5	2400.5
2389.0	2386.1	2389.0	2389.0	2393.3	2390.4	2542.7
2400.5	2397.6	2400.5	2403.3	2407.7	2407.7	2575.7
2401.9	2401.9	2399.0	2406.2	2412.0	2417.7	2607.3
2419.1	2419.1	2422.0	2423.5	2436.4	2450.8	2659.0
2489.5	2496.7	2509.6	2514.0	2536.9	2552.7	2791.2
2597.3	2637.5	2663.4	2672.0	2692.1	2722.3	3013.9
2706.5	2774.0	2844.4	2887.5	2913.3	2949.2	3286.8
2788.3	2914.8	3035.4	3143.2	3204.9	3275.3	3668.9
2795.5	2996.6	3200.6	3400.3	3565.5	3696.2	4186.1
2726.6	2990.9	3272.5	3578.4	3862.9	4098.5	4780.8
2638.9	2963.6	3322.7	3713.5	4087.0	4434.6	5219.0
2528.3	2917.6	3331.4	3770.9	4209.1	4627.1	5468.9
2360.2	2781.2	3227.9	3713.5	4222.0	4730.6	5629.8
2144.8	2574.3	3032.6	3585.6	4161.7	4772.2	5764.9
1925.0	2348.8	2841.5	3414.7	4065.4	4765.0	5819.5
1692.3	2113.2	2617.4	3232.2	3934.7	4698.9	5809.4
1534.2	1917.8	2412.0	3046.9	3789.6	4611.3	5741.9
1442.3	1778.4	2249.6	2877.4	3657.5	4506.4	5657.1
1440.9	1736.8	2163.4	2756.7	3523.9	4390.1	5542.2
1491.1	1762.6	2153.4	2705.0	3450.6	4305.3	5417.2
1550.0	1834.5	2206.5	2723.7	3449.2	4268.0	5329.6
1643.4	1956.6	2322.9	2804.1	3486.5	4262.2	5221.9
1762.6	2121.8	2532.6	3002.4	3631.6	4375.7	5229.0
1884.8	2315.7	2807.0	3341.4	3917.5	4640.0	5456.0
1929.3	2465.1	3085.7	3739.3	4345.6	5036.5	5924.3
1890.5	2499.6	3255.2	4048.2	4762.2	5500.5	6483.1
1746.8	2360.2	3186.3	4135.8	5002.1	5829.5	7042.0
1438.0	2014.0	2873.1	3939.0	4983.4	5897.0	7243.1
1054.4	1561.5	2335.8	3347.2	4430.3	5474.7	6941.4
761.4	1104.7	1686.5	2521.1	3502.3	4408.8	5822.3
545.9	765.7	1094.6	1656.3	2386.1	3069.9	4150.2
392.2	520.0	682.4	994.1	1453.8	1884.8	2607.3
288.7	356.3	448.2	617.7	856.2	1097.5	1570.1
196.8	209.7	270.1	364.9	561.7	807.3	1065.9
74.7	84.8	99.1	149.4	251.4	288.7	204.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)