

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: P159184

Luminaire Tested: **VST-F12-LED-E-U-SLR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159184
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-F12-LED-E-U-SLR-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24314.3 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 306.6
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



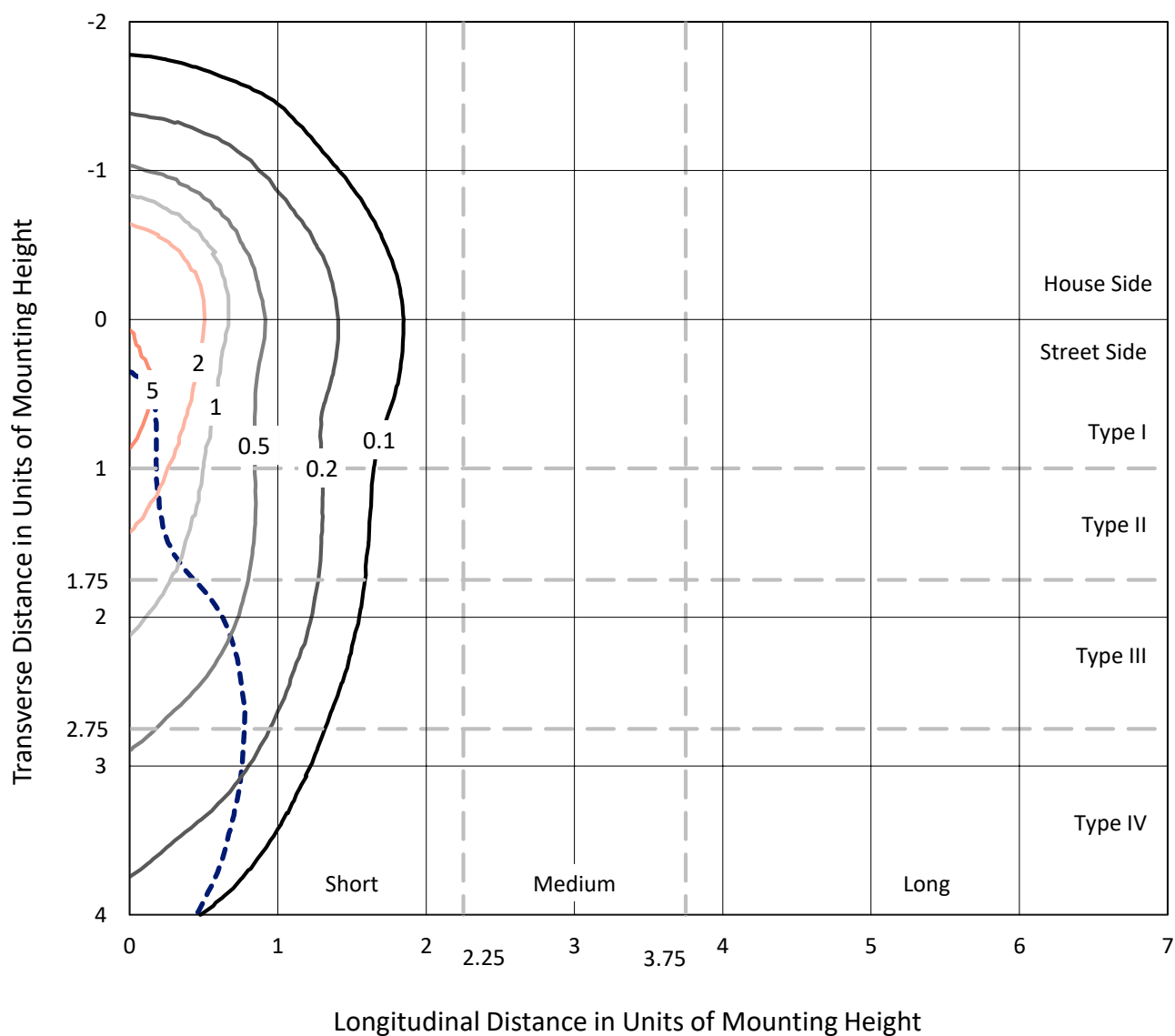
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

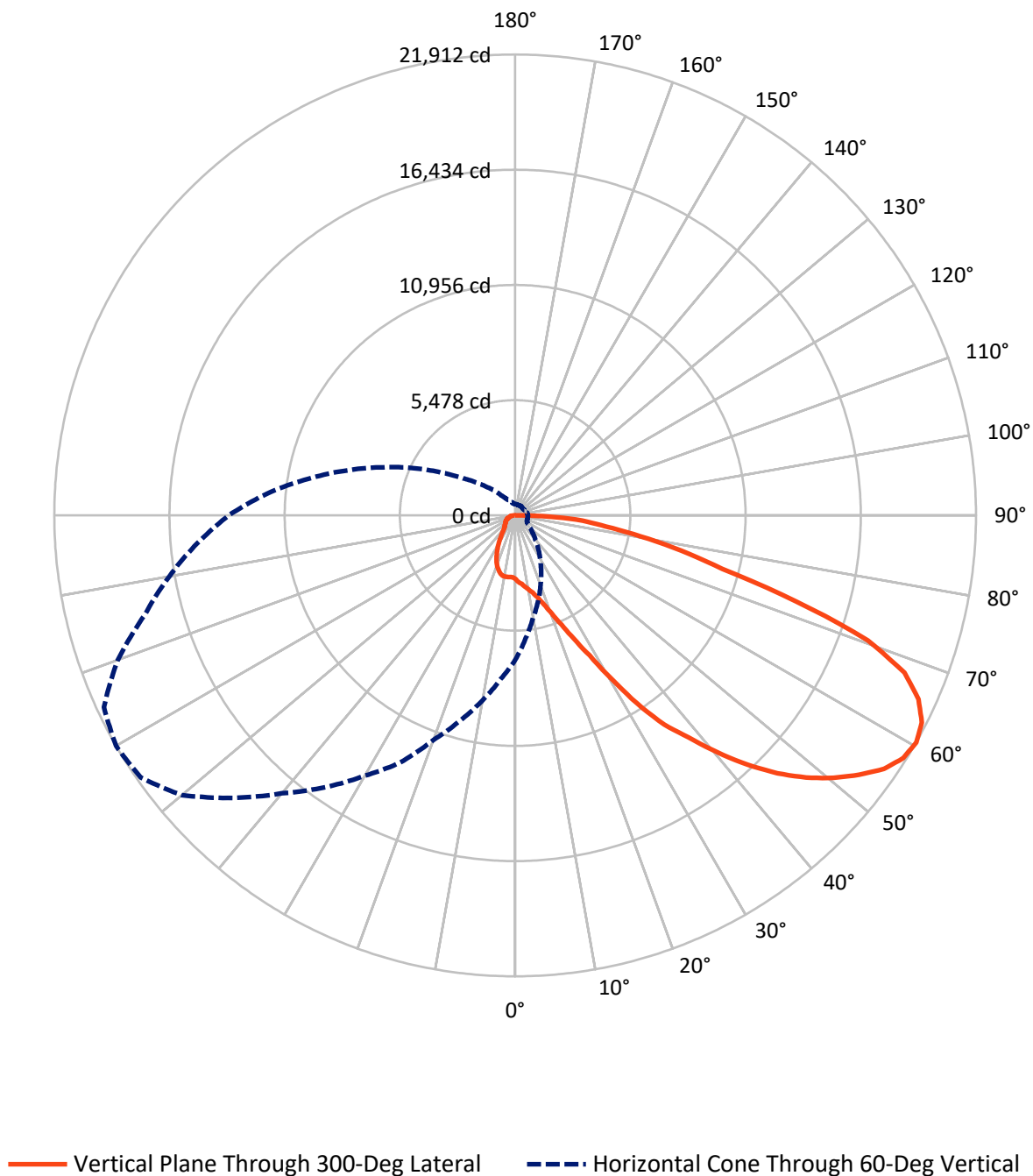


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5474.8	0.0	5474.8
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	18839.5	0.0	18839.5
	% Fixture	77.5	0.0	77.5
Total	Lumens	24314.3	0.0	24314.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.3	1.2
10°-20°	963.2	4.0
20°-30°	1827.8	7.5
30°-40°	2878.4	11.8
40°-50°	4017.6	16.5
50°-60°	4968.8	20.4
60°-70°	5150.5	21.2
70°-80°	3240.9	13.3
80°-90°	968.8	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°	24314.3	100.0
0°-180°	24314.3	100.0

Coefficient of Utilization



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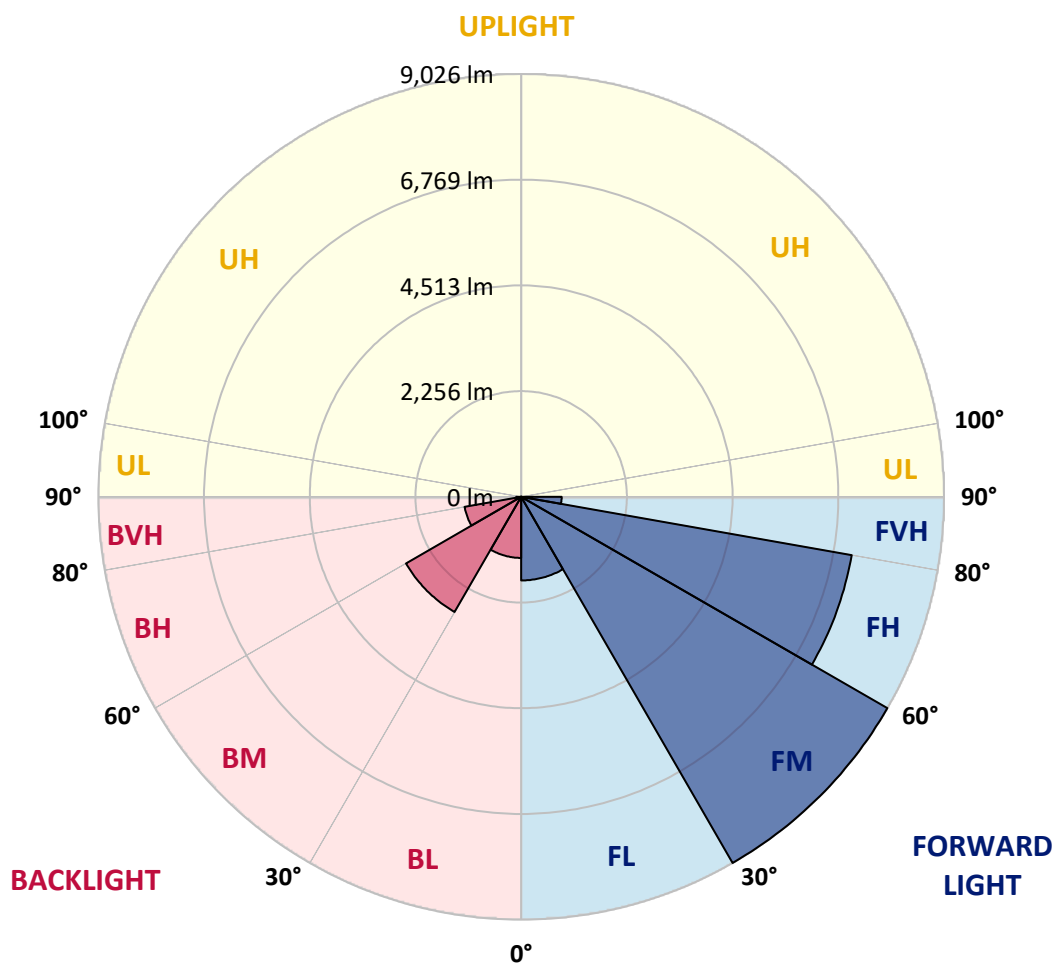
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1785.0	7.3			
FM	(30°-60°)	9025.9	37.1			
FH	(60°-80°)	7165.2	29.5			G3/7500
FVH	(80°-90°)	863.4	3.6			G5
BL	(0°-30°)	1304.3	5.4	B3/2500		
BM	(30°-60°)	2839.0	11.7	B3/5000		
BH	(60°-80°)	1226.1	5.0	B3/2500		G3/2500
BVH	(80°-90°)	105.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8
2.5°	3203.0	3011.1	3014.8	3009.3	3009.3	3005.7	3009.3	3005.7	3002.1	3002.1	3003.9
5°	3244.6	3032.9	3032.9	3027.4	3023.8	3020.2	3023.8	3020.2	3018.4	3014.8	3016.6
7.5°	3284.4	3045.5	3038.3	3031.1	3022.0	3025.6	3025.6	3023.8	3025.6	3023.8	3027.4
10°	3349.5	3087.2	3069.1	3052.8	3051.0	3047.3	3047.3	3041.9	3041.9	3038.3	3040.1
12.5°	3516.0	3215.6	3195.7	3166.8	3161.3	3145.1	3136.0	3125.2	3107.1	3090.8	3078.1
15°	3796.5	3429.2	3391.2	3365.8	3355.0	3322.4	3271.7	3231.9	3179.4	3134.2	3087.2
17.5°	4140.3	3715.1	3669.8	3637.3	3583.0	3494.3	3409.3	3311.5	3210.2	3117.9	3032.9
20°	4621.7	4125.9	4037.2	3959.4	3823.7	3671.6	3512.4	3342.3	3186.7	3041.9	2917.0
22.5°	5273.1	4656.1	4491.4	4283.3	4031.8	3774.8	3521.5	3286.2	3078.1	2889.9	2723.4
25°	6022.3	5162.7	4866.0	4507.7	4122.2	3767.6	3434.6	3132.4	2889.9	2647.4	2466.5
27.5°	6574.2	5586.2	5148.3	4677.8	4185.6	3733.2	3324.2	2958.7	2665.5	2417.6	2198.6
30°	6889.1	5828.7	5302.1	4750.2	4196.4	3675.3	3184.9	2761.4	2423.0	2128.1	1918.2
32.5°	7091.8	5959.0	5318.4	4677.8	4066.1	3503.4	2973.1	2533.4	2166.1	1851.2	1628.6
35°	7261.9	6011.4	5242.4	4516.7	3820.0	3242.8	2701.7	2262.0	1872.9	1583.4	1355.4
37.5°	7330.6	6002.4	5121.1	4301.4	3579.4	2958.7	2424.8	1974.3	1626.8	1371.7	1176.2
40°	7318.0	5919.2	4956.5	4071.6	3297.1	2661.9	2131.7	1735.4	1453.1	1237.8	1094.8
42.5°	7232.9	5808.8	4773.7	3838.1	3038.3	2415.8	1932.6	1581.6	1353.6	1190.7	1065.8
45°	7126.1	5676.7	4607.2	3624.6	2833.8	2240.3	1816.8	1538.1	1340.9	1185.3	1051.4
47.5°	6981.4	5530.1	4438.9	3472.6	2725.2	2187.8	1815.0	1563.5	1351.8	1172.6	1026.0
50°	6823.9	5423.3	4346.6	3407.4	2712.6	2220.4	1878.3	1603.3	1359.0	1159.9	991.7
52.5°	6713.6	5376.3	4344.8	3431.0	2779.5	2310.8	1952.5	1654.0	1386.1	1167.2	984.4
55°	6577.8	5369.0	4391.9	3532.3	2926.1	2464.7	2070.2	1740.8	1442.2	1194.3	989.8
57.5°	6586.9	5512.0	4574.6	3782.0	3190.3	2672.8	2220.4	1847.6	1496.5	1210.6	980.8
60°	6872.8	5845.0	4934.7	4209.1	3535.9	2917.0	2374.2	1905.5	1492.9	1174.4	937.4
62.5°	7462.7	6344.4	5474.0	4710.3	3887.0	3105.2	2430.3	1889.2	1438.6	1096.6	866.8
65°	8166.7	6928.9	5998.8	5099.4	4100.5	3148.7	2381.4	1798.7	1330.0	995.3	781.7
67.5°	8870.6	7343.3	6301.0	5209.8	4013.7	2973.1	2200.5	1596.1	1145.5	857.7	685.8
70°	9123.9	7428.3	6277.4	4961.9	3619.2	2537.0	1811.4	1284.8	919.3	702.1	577.3
72.5°	8743.9	6896.3	5580.8	4216.3	2942.4	1967.0	1328.2	948.2	702.1	550.1	470.5
75°	7334.2	5553.6	4411.8	3175.8	2124.5	1391.6	959.1	691.3	528.4	436.1	376.4
77.5°	5227.9	3867.1	3005.7	2086.5	1378.9	964.5	687.6	519.4	419.8	349.2	305.8
80°	3284.4	2374.2	1831.3	1252.2	859.6	655.1	494.0	410.8	338.4	284.1	255.2
82.5°	1977.9	1382.5	1078.5	778.1	564.6	448.8	363.7	322.1	269.6	235.2	219.0
85°	1342.7	1017.0	707.5	459.6	340.2	264.2	247.9	222.6	200.9	168.3	162.9
87.5°	257.0	363.7	316.7	188.2	124.9	106.8	94.1	90.5	81.4	65.1	74.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8
2.5°	2993.1	2989.4	2982.2	2982.2	2976.8	2965.9	2964.1	2956.9	2947.8	2949.6	2947.8
5°	3003.9	2996.7	2987.6	2984.0	2976.8	2965.9	2960.5	2951.4	2942.4	2942.4	2942.4
7.5°	3016.6	3007.5	3000.3	2987.6	2973.1	2962.3	2947.8	2937.0	2931.5	2929.7	2931.5
10°	3027.4	3022.0	3011.1	2993.1	2973.1	2951.4	2937.0	2922.5	2908.0	2909.8	2911.6
12.5°	3051.0	3032.9	3003.9	2976.8	2946.0	2918.9	2893.5	2875.4	2857.3	2857.3	2859.1
15°	3034.7	2982.2	2942.4	2889.9	2855.5	2812.1	2783.1	2766.9	2756.0	2752.4	2754.2
17.5°	2938.8	2875.4	2815.7	2768.7	2721.6	2687.2	2674.6	2663.7	2649.2	2656.5	2649.2
20°	2794.0	2716.2	2631.1	2575.0	2518.9	2495.4	2473.7	2462.8	2453.8	2486.4	2486.4
22.5°	2585.9	2491.8	2404.9	2336.2	2272.8	2247.5	2225.8	2213.1	2218.6	2258.4	2262.0
25°	2323.5	2209.5	2095.5	2053.9	1990.5	1970.6	1958.0	1956.2	1961.6	2001.4	2010.4
27.5°	2044.8	1925.4	1827.7	1731.8	1702.8	1686.5	1663.0	1690.2	1695.6	1739.0	1757.1
30°	1748.1	1619.6	1516.4	1453.1	1391.6	1400.6	1380.7	1413.3	1427.8	1473.0	1487.5
32.5°	1444.0	1322.8	1219.7	1156.3	1112.9	1118.3	1103.8	1132.8	1147.3	1201.6	1228.7
35°	1194.3	1091.2	1007.9	953.7	933.7	913.8	910.2	913.8	928.3	969.9	1018.8
37.5°	1051.4	966.3	906.6	866.8	839.6	827.0	819.7	819.7	819.7	828.8	852.3
40°	989.8	913.8	861.4	823.4	805.3	798.0	792.6	787.2	778.1	774.5	776.3
42.5°	962.7	875.8	819.7	790.8	779.9	779.9	779.9	776.3	767.3	758.2	749.2
45°	935.6	841.5	785.4	765.5	760.0	761.8	761.8	761.8	754.6	743.7	727.5
47.5°	901.2	803.5	747.4	734.7	734.7	740.1	741.9	741.9	734.7	723.8	711.2
50°	859.6	754.6	703.9	693.1	687.6	687.6	687.6	687.6	682.2	675.0	665.9
52.5°	837.8	727.5	675.0	664.1	664.1	658.7	656.9	651.5	646.0	640.6	627.9
55°	830.6	716.6	662.3	653.3	653.3	647.8	642.4	637.0	627.9	618.9	606.2
57.5°	810.7	693.1	646.0	638.8	638.8	635.2	629.7	624.3	615.3	602.6	586.3
60°	765.5	653.3	613.4	611.6	611.6	609.8	606.2	606.2	597.2	584.5	564.6
62.5°	707.5	611.6	573.6	573.6	571.8	570.0	562.8	561.0	550.1	533.8	515.7
65°	651.5	575.4	550.1	542.9	539.3	533.8	530.2	521.2	512.1	497.6	479.5
67.5°	580.9	521.2	504.9	497.6	490.4	485.0	479.5	474.1	463.3	452.4	437.9
70°	504.9	461.4	452.4	450.6	441.5	436.1	434.3	428.9	418.0	407.2	389.1
72.5°	432.5	407.2	399.9	399.9	389.1	381.8	378.2	376.4	369.2	360.1	343.8
75°	349.2	331.2	329.3	338.4	338.4	333.0	329.3	333.0	322.1	316.7	300.4
77.5°	285.9	276.9	271.4	275.1	285.9	280.5	273.2	273.2	273.2	264.2	258.8
80°	242.5	235.2	229.8	233.4	231.6	229.8	226.2	219.0	219.0	219.0	217.2
82.5°	219.0	217.2	197.2	197.2	190.0	184.6	181.0	177.3	173.7	173.7	182.8
85°	164.7	170.1	159.2	157.4	148.4	141.1	133.9	130.3	126.7	132.1	150.2
87.5°	79.6	79.6	76.0	85.1	77.8	74.2	68.8	65.1	68.8	85.1	101.3
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°	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8
2.5°	2944.2	2942.4	2940.6	2937.0	2929.7	2927.9	2924.3	2924.3	2922.5	2918.9	2922.5
5°	2938.8	2942.4	2942.4	2940.6	2935.1	2938.8	2938.8	2944.2	2944.2	2947.8	2956.9
7.5°	2931.5	2940.6	2947.8	2953.2	2960.5	2965.9	2976.8	2993.1	3000.3	3013.0	3018.4
10°	2917.0	2933.3	2946.0	2962.3	2980.4	3000.3	3016.6	3041.9	3051.0	3069.1	3078.1
12.5°	2875.4	2902.6	2924.3	2956.9	2987.6	3018.4	3047.3	3079.9	3096.2	3116.1	3128.8
15°	2774.1	2804.9	2835.6	2864.6	2918.9	2978.6	3025.6	3069.1	3092.6	3117.9	3130.6
17.5°	2652.9	2672.8	2698.1	2736.1	2788.6	2841.0	2917.0	2978.6	3014.8	3043.7	3047.3
20°	2511.7	2540.7	2558.8	2573.2	2614.8	2651.0	2732.5	2803.0	2850.1	2884.5	2893.5
22.5°	2296.4	2327.1	2357.9	2368.7	2401.3	2448.4	2493.6	2569.6	2636.6	2687.2	2718.0
25°	2050.3	2079.2	2120.8	2153.4	2160.6	2198.6	2243.9	2330.7	2399.5	2480.9	2517.1
27.5°	1804.2	1829.5	1874.7	1892.8	1914.5	1952.5	1988.7	2061.1	2133.5	2227.6	2267.4
30°	1516.4	1570.7	1623.2	1657.6	1675.7	1720.9	1746.2	1816.8	1883.8	1952.5	2010.4
32.5°	1270.3	1319.2	1378.9	1422.3	1444.0	1478.4	1518.2	1578.0	1630.4	1697.4	1764.3
35°	1044.1	1111.1	1150.9	1188.9	1245.0	1261.3	1301.1	1355.4	1386.1	1458.5	1534.5
37.5°	884.9	924.7	964.5	1002.5	1049.6	1071.3	1109.3	1154.5	1190.7	1234.1	1302.9
40°	787.2	808.9	837.8	863.2	897.6	924.7	944.6	982.6	1009.7	1053.2	1102.0
42.5°	741.9	747.4	751.0	769.1	787.2	805.3	827.0	843.3	875.8	908.4	939.2
45°	716.6	705.7	700.3	702.1	709.4	720.2	738.3	756.4	778.1	798.0	816.1
47.5°	694.9	680.4	664.1	655.1	656.9	660.5	675.0	689.5	700.3	716.6	723.8
50°	644.2	631.5	617.1	604.4	606.2	608.0	620.7	631.5	638.8	644.2	653.3
52.5°	611.6	593.5	580.9	568.2	566.4	571.8	582.7	593.5	597.2	600.8	602.6
55°	588.1	570.0	553.7	541.1	535.6	548.3	551.9	566.4	571.8	571.8	573.6
57.5°	570.0	548.3	532.0	519.4	510.3	519.4	528.4	544.7	546.5	542.9	542.9
60°	542.9	526.6	510.3	497.6	488.6	495.8	503.1	521.2	521.2	512.1	510.3
62.5°	495.8	486.8	475.9	470.5	468.7	475.9	481.3	495.8	490.4	479.5	475.9
65°	461.4	454.2	443.3	439.7	437.9	448.8	450.6	459.6	452.4	447.0	445.2
67.5°	419.8	414.4	409.0	407.2	401.7	401.7	405.3	410.8	407.2	407.2	409.0
70°	372.8	365.5	360.1	361.9	358.3	358.3	360.1	363.7	361.9	365.5	369.2
72.5°	329.3	320.3	318.5	318.5	314.9	316.7	316.7	318.5	322.1	323.9	333.0
75°	287.7	278.7	278.7	276.9	276.9	276.9	278.7	282.3	285.9	287.7	291.3
77.5°	249.7	244.3	246.1	244.3	244.3	244.3	244.3	249.7	251.5	253.3	258.8
80°	215.3	215.3	217.2	217.2	215.3	213.5	215.3	219.0	220.8	222.6	224.4
82.5°	195.4	197.2	197.2	197.2	188.2	184.6	190.0	193.6	197.2	199.1	202.7
85°	168.3	161.1	168.3	166.5	153.8	152.0	152.0	153.8	157.4	153.8	153.8
87.5°	108.6	97.7	103.1	103.1	90.5	74.2	94.1	101.3	90.5	95.9	95.9
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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CATALOG NUMBER: VST-F12-LED-E-U-SLR-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8
2.5°	2927.9	2924.3	2926.1	2926.1	2929.7	2924.3	2931.5	2938.8	2940.6	2940.6	2942.4
5°	2965.9	2962.3	2975.0	2969.5	2982.2	2980.4	2989.4	2996.7	3000.3	3000.3	3000.3
7.5°	3025.6	3038.3	3045.5	3065.4	3067.2	3078.1	3087.2	3096.2	3092.6	3094.4	3092.6
10°	3092.6	3108.9	3127.0	3146.9	3148.7	3161.3	3175.8	3184.9	3181.2	3179.4	3174.0
12.5°	3150.5	3161.3	3183.1	3203.0	3213.8	3233.7	3248.2	3255.4	3255.4	3250.0	3244.6
15°	3146.9	3163.2	3186.7	3215.6	3235.5	3264.5	3289.8	3306.1	3307.9	3302.5	3300.7
17.5°	3067.2	3090.8	3112.5	3152.3	3188.5	3228.3	3269.9	3293.4	3315.2	3327.8	3335.1
20°	2924.3	2953.2	2984.0	3036.5	3085.3	3137.8	3186.7	3221.1	3253.6	3291.6	3336.9
22.5°	2756.0	2799.4	2842.9	2909.8	2969.5	3029.2	3085.3	3127.0	3177.6	3242.8	3327.8
25°	2558.8	2604.0	2658.3	2736.1	2812.1	2899.0	2982.2	3065.4	3163.2	3275.3	3407.4
27.5°	2325.3	2376.0	2446.6	2540.7	2627.5	2716.2	2846.5	2978.6	3137.8	3282.6	3432.8
30°	2093.7	2158.8	2234.8	2328.9	2415.8	2542.5	2672.8	2835.6	3003.9	3166.8	3345.9
32.5°	1844.0	1925.4	2019.5	2097.3	2195.0	2323.5	2453.8	2627.5	2806.7	2998.5	3195.7
35°	1603.3	1681.1	1755.3	1842.2	1939.9	2061.1	2187.8	2354.3	2580.5	2785.0	3020.2
37.5°	1359.0	1431.4	1483.9	1552.6	1637.7	1771.6	1907.3	2099.1	2312.6	2564.2	2799.4
40°	1145.5	1205.2	1264.9	1319.2	1391.6	1518.2	1663.0	1851.2	2061.1	2305.4	2567.8
42.5°	975.4	1020.6	1085.8	1150.9	1212.4	1321.0	1456.7	1641.3	1849.4	2099.1	2361.5
45°	832.4	863.2	915.6	969.9	1045.9	1136.4	1266.7	1454.9	1666.6	1918.2	2195.0
47.5°	729.3	743.7	779.9	836.0	906.6	995.3	1107.5	1277.6	1483.9	1737.2	2028.5
50°	658.7	675.0	693.1	740.1	803.5	893.9	986.2	1134.6	1322.8	1570.7	1860.3
52.5°	609.8	617.1	624.3	653.3	711.2	787.2	884.9	997.1	1187.1	1424.1	1684.7
55°	580.9	582.7	588.1	602.6	646.0	716.6	801.6	908.4	1056.8	1281.2	1547.2
57.5°	546.5	550.1	555.5	564.6	591.7	655.1	727.5	814.3	937.4	1125.6	1380.7
60°	513.9	523.0	532.0	537.4	551.9	589.9	651.5	720.2	819.7	960.9	1163.6
62.5°	479.5	490.4	497.6	503.1	508.5	532.0	577.3	622.5	684.0	776.3	928.3
65°	448.8	456.0	461.4	465.1	468.7	475.9	495.8	513.9	532.0	588.1	698.5
67.5°	414.4	418.0	419.8	421.6	419.8	419.8	421.6	428.9	436.1	457.8	510.3
70°	374.6	380.0	380.0	381.8	381.8	376.4	376.4	376.4	376.4	381.8	410.8
72.5°	336.6	343.8	343.8	345.6	343.8	342.0	342.0	342.0	347.4	351.1	361.9
75°	300.4	307.6	305.8	307.6	309.4	309.4	313.1	314.9	320.3	322.1	329.3
77.5°	264.2	269.6	271.4	269.6	273.2	276.9	284.1	287.7	289.5	291.3	293.2
80°	229.8	233.4	231.6	226.2	235.2	240.7	251.5	264.2	260.6	262.4	266.0
82.5°	190.0	184.6	181.0	184.6	190.0	197.2	208.1	224.4	226.2	235.2	233.4
85°	146.6	130.3	128.5	137.5	135.7	144.8	162.9	175.5	186.4	195.4	186.4
87.5°	86.9	77.8	65.1	61.5	67.0	88.7	92.3	112.2	121.2	124.9	112.2
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: P159184

CATALOG NUMBER: VST-F12-LED-E-U-SLR-7030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8
2.5°	3107.1	3116.1	3116.1	3119.7	3125.2	3127.0	3134.2	3146.9	3148.7	3148.7	3154.1
5°	3165.0	3174.0	3174.0	3181.2	3183.1	3192.1	3201.2	3215.6	3222.9	3221.1	3244.6
7.5°	3259.1	3251.8	3246.4	3257.3	3262.7	3273.5	3291.6	3304.3	3317.0	3336.9	3369.4
10°	3338.7	3327.8	3322.4	3329.6	3333.3	3345.9	3356.8	3374.9	3405.6	3436.4	3476.2
12.5°	3403.8	3391.2	3376.7	3380.3	3385.7	3402.0	3420.1	3443.6	3488.9	3528.7	3588.4
15°	3458.1	3440.0	3425.5	3432.8	3445.4	3467.2	3497.9	3539.5	3613.7	3682.5	3762.1
17.5°	3510.6	3507.0	3501.5	3525.1	3534.1	3584.8	3630.0	3706.0	3807.4	3910.5	4024.5
20°	3561.3	3601.1	3621.0	3668.0	3697.0	3765.7	3834.5	3926.8	4055.3	4196.4	4352.1
22.5°	3631.8	3740.4	3807.4	3903.3	3952.1	4026.3	4127.7	4248.9	4391.9	4572.8	4771.9
25°	3800.1	3959.4	4093.3	4243.5	4366.5	4480.5	4601.8	4748.3	4954.6	5119.3	5379.9
27.5°	3874.3	4098.7	4299.6	4511.3	4695.9	4871.4	5063.2	5240.6	5484.9	5707.4	6022.3
30°	3803.7	4057.1	4317.7	4594.5	4864.2	5130.2	5408.8	5680.3	5962.6	6273.8	6608.6
32.5°	3673.5	3957.6	4250.7	4576.4	4911.2	5256.8	5618.8	6013.2	6411.4	6798.6	7140.6
35°	3541.4	3847.2	4172.9	4545.7	4940.2	5369.0	5817.8	6317.3	6843.8	7334.2	7781.2
37.5°	3349.5	3686.1	4058.9	4489.6	4958.3	5486.7	6063.9	6679.2	7345.1	8020.1	8606.4
40°	3117.9	3474.4	3881.6	4377.4	4940.2	5607.9	6358.9	7147.9	8003.8	8827.2	9547.4
42.5°	2906.2	3253.6	3687.9	4227.2	4893.1	5714.7	6639.4	7622.0	8635.3	9556.4	10497.4
45°	2719.8	3103.4	3539.5	4122.2	4869.6	5805.1	6847.5	7976.6	9136.6	10233.2	11344.3
47.5°	2549.7	2947.8	3436.4	4064.3	4858.7	5859.4	6992.2	8208.3	9493.1	10752.6	12042.8
50°	2374.2	2761.4	3284.4	4001.0	4831.6	5857.6	7068.2	8365.7	9742.8	11156.1	12524.1
52.5°	2186.0	2575.0	3099.8	3885.2	4773.7	5825.1	7088.1	8472.5	9940.0	11404.0	12933.1
55°	2014.1	2377.8	2902.6	3691.6	4652.4	5745.4	7042.9	8517.7	10079.4	11650.1	13220.8
57.5°	1816.8	2195.0	2694.5	3425.5	4424.4	5604.3	6914.4	8454.4	10119.2	11814.8	13448.8
60°	1545.4	1916.3	2430.3	3110.7	4067.9	5305.7	6675.6	8262.6	9992.5	11843.7	13611.7
62.5°	1234.1	1554.4	2050.3	2676.4	3566.7	4837.0	6234.0	7831.9	9598.0	11572.3	13528.5
65°	917.5	1131.0	1558.1	2108.2	2985.8	4131.3	5522.9	7109.9	8827.2	10817.7	13005.5
67.5°	638.8	792.6	1055.0	1464.0	2171.5	3190.3	4507.7	5982.5	7634.6	9420.7	11919.7
70°	483.2	553.7	696.7	924.7	1406.0	2173.3	3277.2	4590.9	6123.6	7844.5	10198.8
72.5°	412.6	448.8	528.4	633.4	861.4	1321.0	2057.5	3159.5	4518.5	5919.2	7824.6
75°	371.0	401.7	452.4	519.4	609.8	801.6	1207.0	1999.6	2993.1	3964.8	5459.5
77.5°	336.6	363.7	409.0	443.3	492.2	577.3	769.1	1196.1	1793.3	2450.2	3387.5
80°	300.4	316.7	358.3	392.7	430.7	479.5	551.9	751.0	1029.7	1451.3	1997.8
82.5°	257.0	269.6	300.4	347.4	376.4	396.3	418.0	497.6	617.1	787.2	1109.3
85°	199.1	208.1	235.2	269.6	282.3	284.1	287.7	309.4	383.6	589.9	955.5
87.5°	101.3	112.2	141.1	152.0	128.5	139.3	141.1	150.2	199.1	323.9	329.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P159184
CATALOG NUMBER: VST-F12-LED-E-U-SLR-7030

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	0°
2.5°	3154.1	3159.5	3172.2	3170.4	3179.4	3179.4	3179.4	3188.5	3183.1	3188.5	3197.5	2.5°
5°	3244.6	3253.6	3271.7	3271.7	3273.5	3273.5	3279.0	3286.2	3277.2	3273.5	3275.3	5°
7.5°	3376.7	3391.2	3405.6	3420.1	3431.0	3425.5	3427.4	3411.1	3407.4	3394.8	3378.5	7.5°
10°	3505.2	3545.0	3572.1	3597.5	3599.3	3593.8	3595.6	3568.5	3563.1	3537.7	3521.5	10°
12.5°	3637.3	3687.9	3731.4	3758.5	3774.8	3778.4	3780.2	3780.2	3754.9	3733.2	3695.2	12.5°
15°	3832.7	3921.4	3988.3	4017.3	4040.8	4062.5	4067.9	4075.2	4055.3	4026.3	4020.9	15°
17.5°	4142.1	4225.4	4314.0	4391.9	4444.3	4448.0	4493.2	4489.6	4531.2	4498.6	4489.6	17.5°
20°	4509.5	4690.4	4782.7	4885.9	4945.6	4974.5	5079.5	5046.9	5077.7	5130.2	5077.7	20°
22.5°	4969.1	5198.9	5332.8	5474.0	5571.7	5642.3	5718.3	5778.0	5861.2	5901.1	5864.9	22.5°
25°	5578.9	5841.3	6000.6	6196.0	6351.6	6478.3	6610.4	6769.7	6767.8	6863.8	6930.7	25°
27.5°	6279.3	6614.0	6845.7	7189.5	7323.4	7536.9	7763.1	8009.2	8052.7	8177.5	8240.8	27.5°
30°	6937.9	7352.3	7812.0	8220.9	8684.2	9000.9	9263.3	9437.0	9699.4	9634.2	9598.0	30°
32.5°	7546.0	8097.9	8753.0	9424.3	10159.0	10660.3	11123.5	11338.9	11501.7	11156.1	10698.3	32.5°
35°	8334.9	8995.4	9744.6	10573.4	11507.1	12218.3	12696.0	12763.0	12670.7	12227.4	11469.1	35°
37.5°	9312.1	10005.2	10857.5	11733.3	12725.0	13392.7	13937.4	14035.1	13790.8	13000.1	12203.8	37.5°
40°	10276.6	11089.1	12013.8	13050.7	14078.6	14813.3	15359.8	15388.7	14990.6	14065.9	13134.0	40°
42.5°	11331.6	12220.1	13249.8	14398.9	15461.1	16204.8	16599.3	16724.2	16161.4	14976.1	14082.2	42.5°
45°	12241.8	13304.1	14451.3	15672.8	16783.9	17489.6	17891.4	17851.5	17171.1	16000.3	14952.6	45°
47.5°	13128.5	14297.5	15506.3	16803.8	17907.6	18620.6	19033.2	18997.0	18133.8	16785.7	15633.0	47.5°
50°	13917.5	15186.0	16478.1	17864.2	18964.4	19617.7	20122.6	19963.3	18872.2	17417.2	16070.9	50°
52.5°	14465.8	15880.9	17230.9	18729.2	19862.0	20480.9	21123.3	20611.2	19308.3	17804.5	16306.2	52.5°
55°	14813.3	16358.6	17766.5	19424.1	20537.0	21277.1	21691.5	20964.0	19476.6	17911.3	16387.6	55°
57.5°	15048.5	16621.0	18081.4	19825.8	21145.0	21765.7	21867.0	20976.7	19368.0	17743.0	16306.2	57.5°
60°	15164.3	16698.8	18224.3	20108.1	21572.1	21912.3	21727.7	20683.5	18993.4	17249.0	15781.4	60°
62.5°	15151.6	16601.1	18150.1	20202.2	21657.1	21700.5	21280.7	20184.1	18303.9	16212.1	14909.2	62.5°
65°	14829.5	16244.6	17732.1	19852.9	21260.8	21074.4	20546.0	19246.7	16963.0	14858.5	14199.8	65°
67.5°	13901.2	15258.4	16639.1	18709.3	20144.3	19963.3	19163.5	17404.6	15405.0	13660.6	13305.9	67.5°
70°	12348.6	13499.5	14711.9	16530.6	18036.1	17791.8	16393.0	15323.6	13861.4	12276.2	12153.2	70°
72.5°	10323.7	11195.9	12075.4	13428.9	14465.8	13966.4	13086.9	13030.8	11849.2	10638.5	10663.9	72.5°
75°	8074.4	8729.4	9140.2	9936.4	10625.9	10178.9	10231.4	10542.6	10153.6	9199.9	8890.5	75°
77.5°	5850.4	6478.3	6608.6	7080.9	7565.9	8074.4	8747.5	9480.4	9603.5	9067.8	7945.9	77.5°
80°	3829.1	4520.3	4263.4	4431.7	5113.9	6042.2	7270.9	8477.9	8892.3	8410.9	7030.2	80°
82.5°	2258.4	3226.5	2817.5	3105.2	3537.7	4346.6	5195.3	6105.5	6798.6	6286.5	5872.1	82.5°
85°	1715.5	2544.3	2694.5	3043.7	3184.9	3219.3	3367.6	3664.4	4022.7	4156.6	4145.8	85°
87.5°	893.9	1977.9	2220.4	2053.9	1916.3	1661.2	1295.7	1395.2	1275.8	1744.4	1652.2	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: P159184

NUMBER: VST-F12-LED-E-U-SLR-7030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8
3199.3	3193.9	3197.5	3199.3	3199.3	3199.3	3203.0
3273.5	3259.1	3253.6	3253.6	3251.8	3246.4	3244.6
3353.2	3327.8	3318.8	3307.9	3298.9	3293.4	3284.4
3496.1	3474.4	3429.2	3403.8	3380.3	3364.0	3349.5
3687.9	3657.2	3613.7	3581.2	3545.0	3534.1	3516.0
3984.7	3957.6	3919.6	3883.4	3861.7	3823.7	3796.5
4448.0	4393.7	4355.7	4308.6	4256.1	4178.3	4140.3
5057.8	4949.2	4873.2	4831.6	4726.6	4714.0	4621.7
5758.1	5725.5	5609.7	5559.0	5457.7	5417.9	5273.1
6805.8	6780.5	6543.5	6518.1	6362.5	6246.7	6022.3
8182.9	7974.8	7707.0	7520.6	7254.6	6956.0	6574.2
9386.3	8961.1	8552.1	8117.8	7750.4	7321.6	6889.1
10153.6	9583.6	9057.0	8611.8	8157.6	7647.3	7091.8
10826.7	10251.3	9677.7	9151.1	8601.0	7947.7	7261.9
11632.0	11060.2	10414.2	9674.0	8968.3	8168.5	7330.6
12457.2	11787.6	10980.6	10074.0	9187.3	8277.0	7318.0
13302.3	12446.3	11373.2	10340.0	9326.6	8293.3	7232.9
13988.1	12906.0	11664.6	10475.7	9355.6	8237.2	7126.1
14473.1	13200.9	11794.9	10522.7	9319.4	8148.6	6981.4
14749.9	13362.0	11827.4	10488.4	9245.2	8021.9	6823.9
14851.3	13410.8	11794.9	10417.8	9178.2	7886.2	6713.6
14840.4	13383.7	11675.4	10253.1	8999.1	7705.2	6577.8
14635.9	13132.2	11431.1	10055.9	8847.1	7622.0	6586.9
14288.5	12972.9	11358.8	10095.7	8926.7	7801.1	6872.8
14131.0	13291.4	11765.9	10493.8	9335.6	8313.2	7462.7
14042.4	13808.9	12348.6	10922.7	9820.6	8933.9	8166.7
13680.5	13957.3	12679.8	11166.9	10253.1	9556.4	8870.6
13096.0	13611.7	12428.2	11119.9	10492.0	10034.1	9123.9
11876.3	12421.0	11308.1	10426.8	10193.4	10041.4	8743.9
9621.6	9903.9	9270.5	9071.4	9158.3	9160.1	7334.2
7095.4	6925.3	6639.4	6653.8	7238.3	7147.9	5227.9
5792.5	4741.1	4335.8	4489.6	5211.6	4822.5	3284.4
5390.8	4229.0	3490.7	3526.9	3935.8	3107.1	1977.9
4359.3	3854.4	3090.8	2774.1	2692.7	2070.2	1342.7
1824.1	1677.5	1248.6	1125.6	922.9	564.6	257.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)