

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: P159159

Luminaire Tested: **VST-E10-LED-E-U-SLR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159159
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-E10-LED-E-U-SLR-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (210) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24544.3 lumens
Efficiency: N/A
Efficacy: 99.1 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 - G5

Input Watts (W): 247.7
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



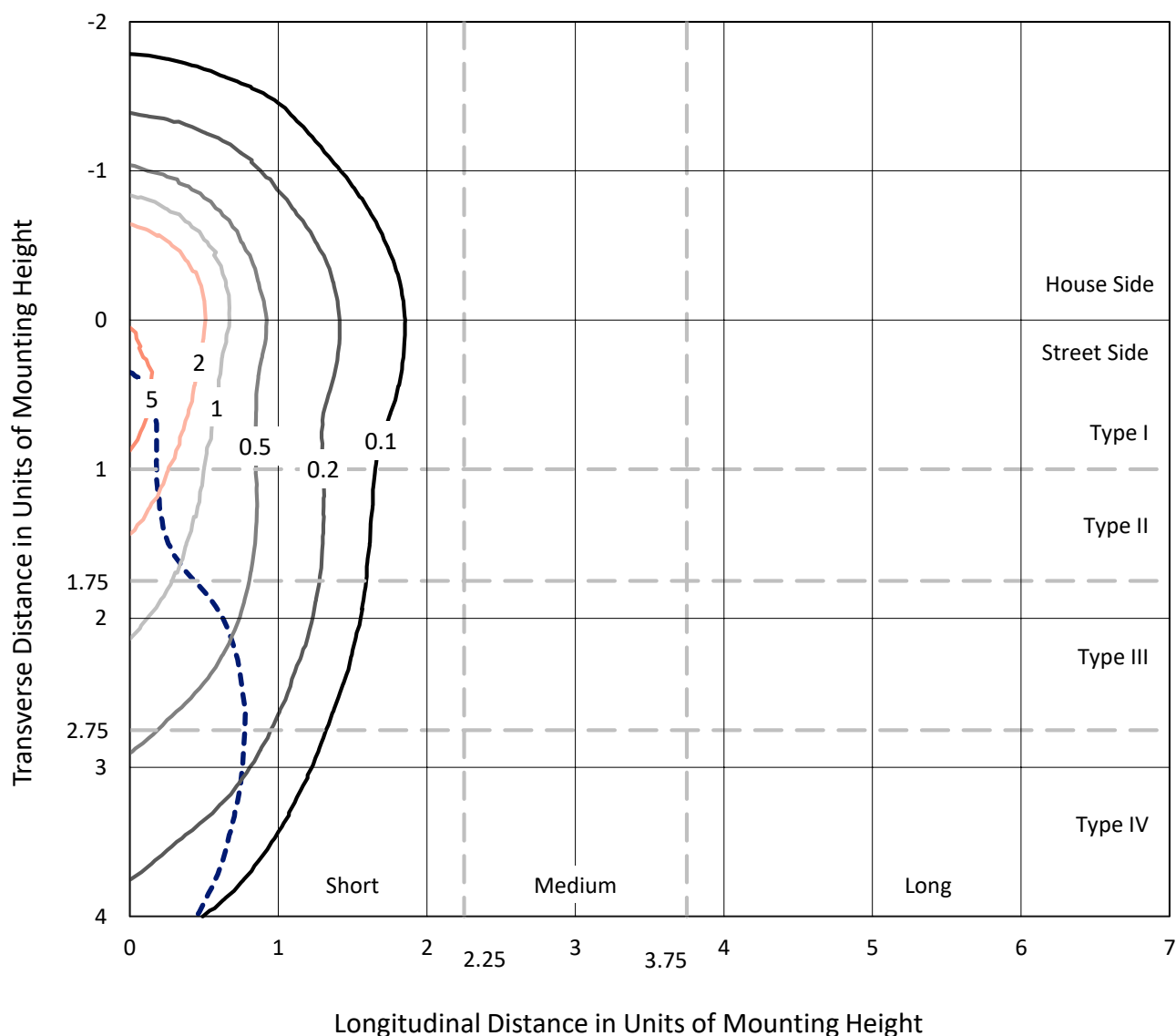
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

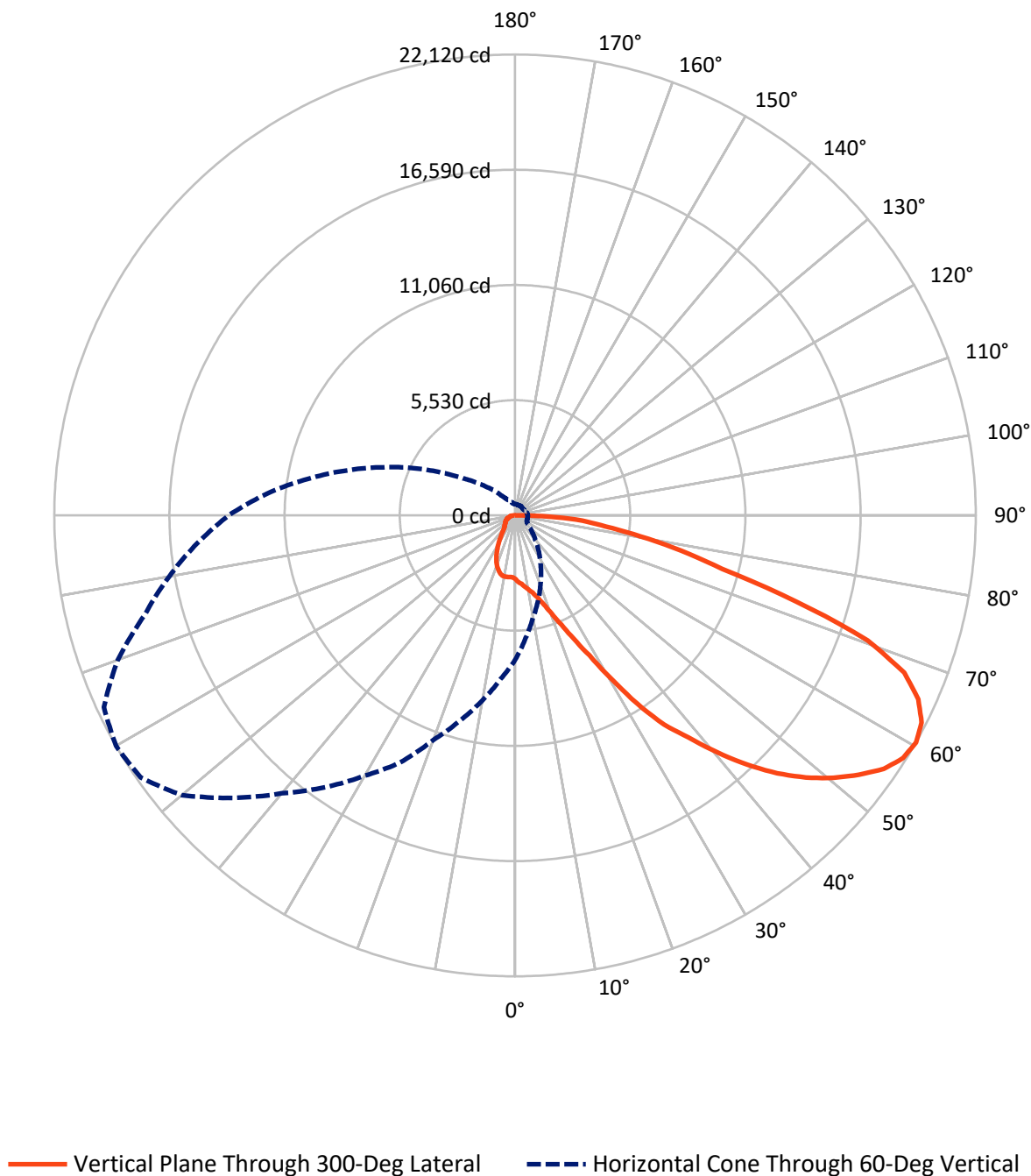


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5526.6	0.0	5526.6
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	19017.7	0.0	19017.7
	% Fixture	77.5	0.0	77.5
Total	Lumens	24544.3	0.0	24544.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.1	1.2
10°-20°	972.3	4.0
20°-30°	1845.1	7.5
30°-40°	2905.7	11.8
40°-50°	4055.6	16.5
50°-60°	5015.8	20.4
60°-70°	5199.2	21.2
70°-80°	3271.5	13.3
80°-90°	977.9	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°	24544.3	100.0
0°-180°	24544.3	100.0

Coefficient of Utilization



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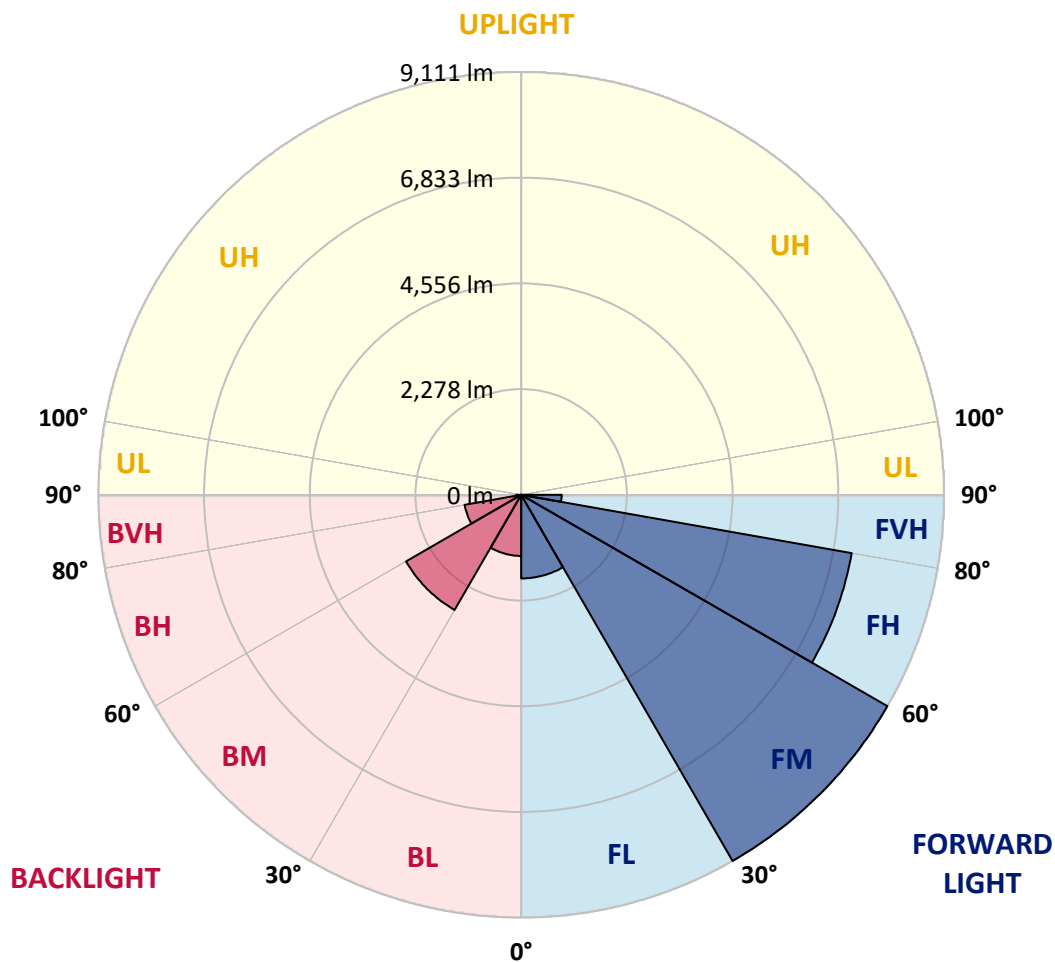
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1801.9	7.3			
FM	(30°-60°)	9111.2	37.1			
FH	(60°-80°)	7233.0	29.5			G3/7500
FVH	(80°-90°)	871.6	3.6			G5
BL	(0°-30°)	1316.6	5.4	B3/2500		
BM	(30°-60°)	2865.9	11.7	B3/5000		
BH	(60°-80°)	1237.7	5.0	B3/2500		G3/2500
BVH	(80°-90°)	106.4	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°	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4
2.5°	3233.3	3039.6	3043.3	3037.8	3037.8	3034.1	3037.8	3034.1	3030.5	3030.5	3032.3
5°	3275.3	3061.6	3061.6	3056.1	3052.4	3048.8	3052.4	3048.8	3046.9	3043.3	3045.1
7.5°	3315.5	3074.3	3067.0	3059.7	3050.6	3054.2	3054.2	3052.4	3054.2	3052.4	3056.1
10°	3381.2	3116.4	3098.1	3081.6	3079.8	3076.2	3076.2	3070.7	3070.7	3067.0	3068.9
12.5°	3549.3	3246.0	3226.0	3196.7	3191.2	3174.8	3165.7	3154.7	3136.4	3120.0	3107.2
15°	3832.4	3461.6	3423.2	3397.7	3386.7	3353.8	3302.7	3262.5	3209.5	3163.8	3116.4
17.5°	4179.5	3750.2	3704.5	3671.7	3616.9	3527.4	3441.5	3342.9	3240.6	3147.4	3061.6
20°	4665.4	4164.9	4075.4	3996.8	3859.8	3706.4	3545.6	3373.9	3216.8	3070.7	2944.6
22.5°	5323.0	4700.1	4533.9	4323.8	4069.9	3810.5	3554.8	3317.3	3107.2	2917.2	2749.2
25°	6079.3	5211.6	4912.0	4550.3	4161.2	3803.2	3467.1	3162.0	2917.2	2672.5	2489.8
27.5°	6636.4	5639.0	5197.0	4722.0	4225.2	3768.5	3355.6	2986.7	2690.7	2440.5	2219.4
30°	6954.2	5883.8	5352.2	4795.1	4236.1	3710.0	3215.0	2787.5	2446.0	2148.2	1936.3
32.5°	7158.8	6015.3	5368.7	4722.0	4104.6	3536.5	3001.3	2557.4	2186.6	1868.7	1644.0
35°	7330.5	6068.3	5292.0	4559.4	3856.2	3273.4	2727.3	2283.4	1890.6	1598.4	1368.2
37.5°	7400.0	6059.2	5169.6	4342.1	3613.2	2986.7	2447.8	1992.9	1642.2	1384.6	1187.4
40°	7387.2	5975.1	5003.3	4110.1	3328.2	2687.1	2151.9	1751.8	1466.8	1249.5	1105.2
42.5°	7301.3	5863.7	4818.8	3874.4	3067.0	2438.6	1950.9	1596.5	1366.4	1202.0	1075.9
45°	7193.5	5730.4	4650.8	3658.9	2860.6	2261.5	1834.0	1552.7	1353.6	1196.5	1061.3
47.5°	7047.4	5582.4	4480.9	3505.4	2751.0	2208.5	1832.2	1578.3	1364.5	1183.7	1035.7
50°	6888.5	5474.6	4387.7	3439.7	2738.2	2241.4	1896.1	1618.5	1371.9	1170.9	1001.0
52.5°	6777.1	5427.1	4385.9	3463.4	2805.8	2332.7	1971.0	1669.6	1399.3	1178.2	993.7
55°	6640.1	5419.8	4433.4	3565.7	2953.8	2488.0	2089.7	1757.3	1455.9	1205.6	999.2
57.5°	6649.2	5564.1	4617.9	3817.8	3220.5	2698.0	2241.4	1865.1	1510.7	1222.1	990.1
60°	6937.8	5900.2	4981.4	4248.9	3569.4	2944.6	2396.6	1923.5	1507.0	1185.5	946.2
62.5°	7533.3	6404.4	5525.8	4754.9	3923.8	3134.6	2453.3	1907.1	1452.2	1107.0	875.0
65°	8243.9	6994.4	6055.5	5147.6	4139.3	3178.5	2403.9	1815.7	1342.6	1004.7	789.1
67.5°	8954.5	7412.8	6360.6	5259.1	4051.6	3001.3	2221.3	1611.2	1156.3	865.9	692.3
70°	9210.2	7498.6	6336.8	5008.8	3653.4	2561.0	1828.5	1297.0	928.0	708.8	582.7
72.5°	8826.6	6961.6	5633.5	4256.2	2970.2	1985.6	1340.8	957.2	708.8	555.3	474.9
75°	7403.6	5606.1	4453.5	3205.9	2144.5	1404.7	968.2	697.8	533.4	440.2	380.0
77.5°	5277.3	3903.7	3034.1	2106.2	1391.9	973.6	694.1	524.3	423.8	352.6	308.7
80°	3315.5	2396.6	1848.6	1264.1	867.7	661.3	498.7	414.7	341.6	286.8	257.6
82.5°	1996.6	1395.6	1088.7	785.5	569.9	453.0	367.2	325.2	272.2	237.5	221.0
85°	1355.4	1026.6	714.2	464.0	343.4	266.7	250.3	224.7	202.8	169.9	164.4
87.5°	259.4	367.2	319.7	190.0	126.0	107.8	95.0	91.3	82.2	65.8	74.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4
2.5°	3021.4	3017.7	3010.4	3010.4	3004.9	2994.0	2992.1	2984.8	2975.7	2977.5	2975.7
5°	3032.3	3025.0	3015.9	3012.2	3004.9	2994.0	2988.5	2979.3	2970.2	2970.2	2970.2
7.5°	3045.1	3036.0	3028.7	3015.9	3001.3	2990.3	2975.7	2964.7	2959.3	2957.4	2959.3
10°	3056.1	3050.6	3039.6	3021.4	3001.3	2979.3	2964.7	2950.1	2935.5	2937.3	2939.2
12.5°	3079.8	3061.6	3032.3	3004.9	2973.9	2946.5	2920.9	2902.6	2884.4	2884.4	2886.2
15°	3063.4	3010.4	2970.2	2917.2	2882.5	2838.7	2809.5	2793.0	2782.1	2778.4	2780.2
17.5°	2966.6	2902.6	2842.3	2794.9	2747.4	2712.7	2699.9	2688.9	2674.3	2681.6	2674.3
20°	2820.4	2741.9	2656.0	2599.4	2542.8	2519.0	2497.1	2486.1	2477.0	2509.9	2509.9
22.5°	2610.4	2515.4	2427.7	2358.3	2294.3	2268.8	2246.8	2234.1	2239.5	2279.7	2283.4
25°	2345.5	2230.4	2115.3	2073.3	2009.4	1989.3	1976.5	1974.7	1980.1	2020.3	2029.5
27.5°	2064.2	1943.6	1845.0	1748.2	1718.9	1702.5	1678.7	1706.1	1711.6	1755.5	1773.7
30°	1764.6	1634.9	1530.8	1466.8	1404.7	1413.9	1393.8	1426.7	1441.3	1486.9	1501.5
32.5°	1457.7	1335.3	1231.2	1167.3	1123.4	1128.9	1114.3	1143.5	1158.1	1212.9	1240.3
35°	1205.6	1101.5	1017.5	962.7	942.6	922.5	918.8	922.5	937.1	979.1	1028.4
37.5°	1061.3	975.5	915.2	875.0	847.6	834.8	827.5	827.5	827.5	836.6	860.4
40°	999.2	922.5	869.5	831.1	812.9	805.6	800.1	794.6	785.5	781.8	783.7
42.5°	971.8	884.1	827.5	798.3	787.3	787.3	787.3	783.7	774.5	765.4	756.3
45°	944.4	849.4	792.8	772.7	767.2	769.0	769.0	769.0	761.7	750.8	734.3
47.5°	909.7	811.1	754.4	741.6	741.6	747.1	748.9	748.9	741.6	730.7	717.9
50°	867.7	761.7	710.6	699.6	694.1	694.1	694.1	694.1	688.7	681.4	672.2
52.5°	845.8	734.3	681.4	670.4	670.4	664.9	663.1	657.6	652.1	646.7	633.9
55°	838.5	723.4	668.6	659.4	659.4	654.0	648.5	643.0	633.9	624.7	611.9
57.5°	818.4	699.6	652.1	644.8	644.8	641.2	635.7	630.2	621.1	608.3	591.9
60°	772.7	659.4	619.3	617.4	617.4	615.6	611.9	611.9	602.8	590.0	569.9
62.5°	714.2	617.4	579.1	579.1	577.2	575.4	568.1	566.3	555.3	538.9	520.6
65°	657.6	580.9	555.3	548.0	544.4	538.9	535.2	526.1	517.0	502.3	484.1
67.5°	586.4	526.1	509.6	502.3	495.0	489.6	484.1	478.6	467.6	456.7	442.1
70°	509.6	465.8	456.7	454.8	445.7	440.2	438.4	432.9	422.0	411.0	392.7
72.5°	436.6	411.0	403.7	403.7	392.7	385.4	381.8	380.0	372.6	363.5	347.1
75°	352.6	334.3	332.5	341.6	341.6	336.1	332.5	336.1	325.2	319.7	303.2
77.5°	288.6	279.5	274.0	277.7	288.6	283.1	275.8	275.8	275.8	266.7	261.2
80°	244.8	237.5	232.0	235.6	233.8	232.0	228.3	221.0	221.0	221.0	219.2
82.5°	221.0	219.2	199.1	199.1	191.8	186.3	182.7	179.0	175.4	175.4	184.5
85°	166.2	171.7	160.7	158.9	149.8	142.5	135.2	131.5	127.9	133.3	151.6
87.5°	80.4	80.4	76.7	85.9	78.5	74.9	69.4	65.8	69.4	85.9	102.3
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°	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4
2.5°	2972.0	2970.2	2968.4	2964.7	2957.4	2955.6	2951.9	2951.9	2950.1	2946.5	2950.1
5°	2966.6	2970.2	2970.2	2968.4	2962.9	2966.6	2966.6	2972.0	2972.0	2975.7	2984.8
7.5°	2959.3	2968.4	2975.7	2981.2	2988.5	2994.0	3004.9	3021.4	3028.7	3041.5	3046.9
10°	2944.6	2961.1	2973.9	2990.3	3008.6	3028.7	3045.1	3070.7	3079.8	3098.1	3107.2
12.5°	2902.6	2930.0	2951.9	2984.8	3015.9	3046.9	3076.2	3109.0	3125.5	3145.6	3158.4
15°	2800.3	2831.4	2862.4	2891.7	2946.5	3006.7	3054.2	3098.1	3121.8	3147.4	3160.2
17.5°	2677.9	2698.0	2723.6	2762.0	2814.9	2867.9	2944.6	3006.7	3043.3	3072.5	3076.2
20°	2535.5	2564.7	2583.0	2597.6	2639.6	2676.1	2758.3	2829.6	2877.1	2911.8	2920.9
22.5°	2318.1	2349.1	2380.2	2391.2	2424.0	2471.5	2517.2	2593.9	2661.5	2712.7	2743.7
25°	2069.7	2098.9	2140.9	2173.8	2181.1	2219.4	2265.1	2352.8	2422.2	2504.4	2540.9
27.5°	1821.2	1846.8	1892.5	1910.7	1932.6	1971.0	2007.5	2080.6	2153.7	2248.7	2288.9
30°	1530.8	1585.6	1638.6	1673.3	1691.5	1737.2	1762.8	1834.0	1901.6	1971.0	2029.5
32.5°	1282.3	1331.7	1391.9	1435.8	1457.7	1492.4	1532.6	1592.9	1645.9	1713.4	1781.0
35°	1054.0	1121.6	1161.8	1200.1	1256.8	1273.2	1313.4	1368.2	1399.3	1472.3	1549.0
37.5°	893.3	933.4	973.6	1012.0	1059.5	1081.4	1119.8	1165.4	1202.0	1245.8	1315.2
40°	794.6	816.5	845.8	871.3	906.0	933.4	953.5	991.9	1019.3	1063.1	1112.5
42.5°	748.9	754.4	758.1	776.3	794.6	812.9	834.8	851.2	884.1	917.0	948.1
45°	723.4	712.4	706.9	708.8	716.1	727.0	745.3	763.6	785.5	805.6	823.8
47.5°	701.5	686.8	670.4	661.3	663.1	666.7	681.4	696.0	706.9	723.4	730.7
50°	650.3	637.5	622.9	610.1	611.9	613.8	626.6	637.5	644.8	650.3	659.4
52.5°	617.4	599.2	586.4	573.6	571.8	577.2	588.2	599.2	602.8	606.5	608.3
55°	593.7	575.4	559.0	546.2	540.7	553.5	557.1	571.8	577.2	577.2	579.1
57.5°	575.4	553.5	537.0	524.3	515.1	524.3	533.4	549.8	551.7	548.0	548.0
60°	548.0	531.6	515.1	502.3	493.2	500.5	507.8	526.1	526.1	517.0	515.1
62.5°	500.5	491.4	480.4	474.9	473.1	480.4	485.9	500.5	495.0	484.1	480.4
65°	465.8	458.5	447.5	443.9	442.1	453.0	454.8	464.0	456.7	451.2	449.4
67.5°	423.8	418.3	412.8	411.0	405.5	405.5	409.2	414.7	411.0	411.0	412.8
70°	376.3	369.0	363.5	365.3	361.7	361.7	363.5	367.2	365.3	369.0	372.6
72.5°	332.5	323.3	321.5	321.5	317.8	319.7	319.7	321.5	325.2	327.0	336.1
75°	290.4	281.3	281.3	279.5	279.5	279.5	281.3	285.0	288.6	290.4	294.1
77.5°	252.1	246.6	248.4	246.6	246.6	246.6	246.6	252.1	253.9	255.7	261.2
80°	217.4	217.4	219.2	219.2	217.4	215.6	217.4	221.0	222.9	224.7	226.5
82.5°	197.3	199.1	199.1	199.1	190.0	186.3	191.8	195.5	199.1	200.9	204.6
85°	169.9	162.6	169.9	168.1	155.3	153.4	153.4	155.3	158.9	155.3	155.3
87.5°	109.6	98.6	104.1	104.1	91.3	74.9	95.0	102.3	91.3	96.8	96.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: VST-E10-LED-E-U-SLR-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4
2.5°	2955.6	2951.9	2953.8	2953.8	2957.4	2951.9	2959.3	2966.6	2968.4	2968.4	2970.2
5°	2994.0	2990.3	3003.1	2997.6	3010.4	3008.6	3017.7	3025.0	3028.7	3028.7	3028.7
7.5°	3054.2	3067.0	3074.3	3094.4	3096.3	3107.2	3116.4	3125.5	3121.8	3123.7	3121.8
10°	3121.8	3138.3	3156.5	3176.6	3178.5	3191.2	3205.9	3215.0	3211.3	3209.5	3204.0
12.5°	3180.3	3191.2	3213.2	3233.3	3244.2	3264.3	3278.9	3286.2	3286.2	3280.8	3275.3
15°	3176.6	3193.1	3216.8	3246.0	3266.1	3295.4	3320.9	3337.4	3339.2	3333.7	3331.9
17.5°	3096.3	3120.0	3141.9	3182.1	3218.6	3258.8	3300.8	3324.6	3346.5	3359.3	3366.6
20°	2951.9	2981.2	3012.2	3065.2	3114.5	3167.5	3216.8	3251.5	3284.4	3322.8	3368.4
22.5°	2782.1	2825.9	2869.7	2937.3	2997.6	3057.9	3114.5	3156.5	3207.7	3273.4	3359.3
25°	2583.0	2628.6	2683.4	2762.0	2838.7	2926.4	3010.4	3094.4	3193.1	3306.3	3439.7
27.5°	2347.3	2398.5	2469.7	2564.7	2652.4	2741.9	2873.4	3006.7	3167.5	3313.6	3465.3
30°	2113.5	2179.3	2256.0	2351.0	2438.6	2566.5	2698.0	2862.4	3032.3	3196.7	3377.6
32.5°	1861.4	1943.6	2038.6	2117.1	2215.8	2345.5	2477.0	2652.4	2833.2	3026.8	3226.0
35°	1618.5	1697.0	1771.9	1859.6	1958.2	2080.6	2208.5	2376.5	2604.9	2811.3	3048.8
37.5°	1371.9	1444.9	1497.9	1567.3	1653.2	1788.3	1925.3	2119.0	2334.5	2588.4	2825.9
40°	1156.3	1216.6	1276.9	1331.7	1404.7	1532.6	1678.7	1868.7	2080.6	2327.2	2592.1
42.5°	984.6	1030.3	1096.0	1161.8	1223.9	1333.5	1470.5	1656.8	1866.9	2119.0	2383.8
45°	840.3	871.3	924.3	979.1	1055.8	1147.2	1278.7	1468.7	1682.4	1936.3	2215.8
47.5°	736.2	750.8	787.3	843.9	915.2	1004.7	1117.9	1289.7	1497.9	1753.6	2047.7
50°	664.9	681.4	699.6	747.1	811.1	902.4	995.6	1145.3	1335.3	1585.6	1877.8
52.5°	615.6	622.9	630.2	659.4	717.9	794.6	893.3	1006.5	1198.3	1437.6	1700.7
55°	586.4	588.2	593.7	608.3	652.1	723.4	809.2	917.0	1066.8	1293.3	1561.8
57.5°	551.7	555.3	560.8	569.9	597.3	661.3	734.3	822.0	946.2	1136.2	1393.8
60°	518.8	527.9	537.0	542.5	557.1	595.5	657.6	727.0	827.5	970.0	1174.6
62.5°	484.1	495.0	502.3	507.8	513.3	537.0	582.7	628.4	690.5	783.7	937.1
65°	453.0	460.3	465.8	469.5	473.1	480.4	500.5	518.8	537.0	593.7	705.1
67.5°	418.3	422.0	423.8	425.6	423.8	423.8	425.6	432.9	440.2	462.2	515.1
70°	378.1	383.6	383.6	385.4	385.4	380.0	380.0	380.0	380.0	385.4	414.7
72.5°	339.8	347.1	347.1	348.9	347.1	345.2	345.2	345.2	350.7	354.4	365.3
75°	303.2	310.5	308.7	310.5	312.4	312.4	316.0	317.8	323.3	325.2	332.5
77.5°	266.7	272.2	274.0	272.2	275.8	279.5	286.8	290.4	292.3	294.1	295.9
80°	232.0	235.6	233.8	228.3	237.5	243.0	253.9	266.7	263.0	264.9	268.5
82.5°	191.8	186.3	182.7	186.3	191.8	199.1	210.1	226.5	228.3	237.5	235.6
85°	148.0	131.5	129.7	138.8	137.0	146.1	164.4	177.2	188.2	197.3	188.2
87.5°	87.7	78.5	65.8	62.1	67.6	89.5	93.2	113.3	122.4	126.0	113.3
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: P159159

CATALOG NUMBER: VST-E10-LED-E-U-SLR-7030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4
2.5°	3136.4	3145.6	3145.6	3149.2	3154.7	3156.5	3163.8	3176.6	3178.5	3178.5	3183.9
5°	3194.9	3204.0	3204.0	3211.3	3213.2	3222.3	3231.4	3246.0	3253.4	3251.5	3275.3
7.5°	3289.9	3282.6	3277.1	3288.1	3293.5	3304.5	3322.8	3335.6	3348.3	3368.4	3401.3
10°	3370.3	3359.3	3353.8	3361.1	3364.8	3377.6	3388.5	3406.8	3437.9	3468.9	3509.1
12.5°	3436.0	3423.2	3408.6	3412.3	3417.8	3434.2	3452.5	3476.2	3521.9	3562.1	3622.3
15°	3490.8	3472.6	3457.9	3465.3	3478.0	3500.0	3531.0	3573.0	3647.9	3717.3	3797.7
17.5°	3543.8	3540.1	3534.7	3558.4	3567.5	3618.7	3664.4	3741.1	3843.4	3947.5	4062.6
20°	3594.9	3635.1	3655.2	3702.7	3731.9	3801.4	3870.8	3963.9	4093.6	4236.1	4393.2
22.5°	3666.2	3775.8	3843.4	3940.2	3989.5	4064.4	4166.7	4289.1	4433.4	4616.1	4817.0
25°	3836.1	3996.8	4132.0	4283.6	4407.8	4522.9	4645.3	4793.3	5001.5	5167.7	5430.8
27.5°	3911.0	4137.5	4340.2	4554.0	4740.3	4917.5	5111.1	5290.1	5536.7	5761.4	6079.3
30°	3839.7	4095.5	4358.5	4638.0	4910.2	5178.7	5460.0	5734.0	6019.0	6333.2	6671.1
32.5°	3708.2	3995.0	4290.9	4619.7	4957.7	5306.6	5671.9	6070.1	6472.0	6862.9	7208.2
35°	3574.9	3883.6	4212.4	4588.7	4986.9	5419.8	5872.8	6377.0	6908.6	7403.6	7854.8
37.5°	3381.2	3721.0	4097.3	4532.0	5005.2	5538.6	6121.3	6742.4	7414.6	8095.9	8687.8
40°	3147.4	3507.3	3918.3	4418.8	4986.9	5660.9	6419.0	7215.5	8079.5	8910.6	9637.7
42.5°	2933.7	3284.4	3722.8	4267.2	4939.4	5768.7	6702.2	7694.1	8717.0	9646.8	10596.7
45°	2745.5	3132.8	3573.0	4161.2	4915.7	5860.1	6912.2	8052.1	9223.0	10330.0	11451.6
47.5°	2573.8	2975.7	3468.9	4102.8	4904.7	5914.9	7058.4	8285.9	9582.9	10854.3	12156.7
50°	2396.6	2787.5	3315.5	4038.8	4877.3	5913.0	7135.1	8444.8	9835.0	11261.6	12642.6
52.5°	2206.7	2599.4	3129.1	3921.9	4818.8	5880.1	7155.2	8552.6	10034.1	11511.9	13055.4
55°	2033.1	2400.3	2930.0	3726.5	4696.4	5799.8	7109.5	8598.3	10174.7	11760.3	13345.9
57.5°	1834.0	2215.8	2720.0	3457.9	4466.3	5657.3	6979.8	8534.3	10214.9	11926.5	13576.0
60°	1560.0	1934.5	2453.3	3140.1	4106.4	5355.9	6738.7	8340.7	10087.0	11955.8	13740.4
62.5°	1245.8	1569.1	2069.7	2701.7	3600.4	4882.8	6293.0	7906.0	9688.8	11681.8	13656.4
65°	926.1	1141.7	1572.8	2128.1	3014.1	4170.4	5575.1	7177.1	8910.6	10920.0	13128.5
67.5°	644.8	800.1	1065.0	1477.8	2192.0	3220.5	4550.3	6039.1	7706.9	9509.8	12032.5
70°	487.7	559.0	703.3	933.4	1419.3	2193.9	3308.2	4634.3	6181.6	7918.7	10295.3
72.5°	416.5	453.0	533.4	639.3	869.5	1333.5	2077.0	3189.4	4561.3	5975.1	7898.7
75°	374.5	405.5	456.7	524.3	615.6	809.2	1218.4	2018.5	3021.4	4002.3	5511.2
77.5°	339.8	367.2	412.8	447.5	496.9	582.7	776.3	1207.4	1810.3	2473.4	3419.6
80°	303.2	319.7	361.7	396.4	434.8	484.1	557.1	758.1	1039.4	1465.0	2016.7
82.5°	259.4	272.2	303.2	350.7	380.0	400.0	422.0	502.3	622.9	794.6	1119.8
85°	200.9	210.1	237.5	272.2	285.0	286.8	290.4	312.4	387.3	595.5	964.5
87.5°	102.3	113.3	142.5	153.4	129.7	140.7	142.5	151.6	200.9	327.0	332.5
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: P159159
CATALOG NUMBER: VST-E10-LED-E-U-SLR-7030

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	0°
2.5°	3183.9	3189.4	3202.2	3200.4	3209.5	3209.5	3209.5	3218.6	3213.2	3218.6	3227.8	2.5°
5°	3275.3	3284.4	3302.7	3302.7	3304.5	3299.0	3310.0	3317.3	3308.2	3304.5	3306.3	5°
7.5°	3408.6	3423.2	3437.9	3452.5	3463.4	3457.9	3459.8	3443.3	3439.7	3426.9	3410.5	7.5°
10°	3538.3	3578.5	3605.9	3631.5	3633.3	3627.8	3629.7	3602.3	3596.8	3571.2	3554.8	10°
12.5°	3671.7	3722.8	3766.7	3794.1	3810.5	3814.2	3816.0	3816.0	3790.4	3768.5	3730.1	12.5°
15°	3869.0	3958.5	4026.0	4055.3	4079.0	4100.9	4106.4	4113.7	4093.6	4064.4	4058.9	15°
17.5°	4181.3	4265.3	4354.9	4433.4	4486.4	4490.0	4535.7	4532.0	4574.1	4541.2	4532.0	17.5°
20°	4552.1	4734.8	4828.0	4932.1	4992.4	5021.6	5127.5	5094.7	5125.7	5178.7	5125.7	20°
22.5°	5016.1	5248.1	5383.3	5525.8	5624.4	5695.7	5772.4	5832.7	5916.7	5956.9	5920.3	22.5°
25°	5631.7	5896.6	6057.3	6254.6	6411.7	6539.6	6672.9	6833.7	6831.9	6928.7	6996.3	25°
27.5°	6338.7	6676.6	6910.4	7257.5	7392.7	7608.2	7836.5	8085.0	8128.8	8254.9	8318.8	27.5°
30°	7003.6	7421.9	7885.9	8298.7	8766.3	9086.0	9350.9	9526.2	9791.1	9725.4	9688.8	30°
32.5°	7617.3	8174.5	8835.8	9513.5	10255.1	10761.1	11228.7	11446.1	11610.5	11261.6	10799.5	32.5°
35°	8413.8	9080.5	9836.8	10673.4	11616.0	12333.9	12816.1	12883.7	12790.6	12343.0	11577.6	35°
37.5°	9400.2	10099.8	10960.2	11844.3	12845.4	13519.4	14069.2	14167.9	13921.3	13123.0	12319.3	37.5°
40°	10373.8	11194.0	12127.5	13174.2	14211.7	14953.4	15505.0	15534.3	15132.4	14198.9	13258.2	40°
42.5°	11438.8	12335.7	13375.1	14535.1	15607.3	16358.1	16756.3	16882.4	16314.3	15117.8	14215.4	42.5°
45°	12357.6	13429.9	14588.0	15821.1	16942.6	17655.1	18060.6	18020.4	17333.6	16151.7	15094.0	45°
47.5°	13252.7	14432.8	15653.0	16962.7	18077.0	18796.8	19213.2	19176.7	18305.4	16944.5	15780.9	47.5°
50°	14049.2	15329.7	16633.9	18033.2	19143.8	19803.3	20312.9	20152.2	19050.7	17582.0	16222.9	50°
52.5°	14602.6	16031.1	17393.8	18906.4	20049.9	20674.6	21323.1	20806.1	19490.9	17972.9	16460.4	52.5°
55°	14953.4	16513.4	17934.5	19607.8	20731.2	21478.3	21896.7	21162.3	19660.8	18080.7	16542.6	55°
57.5°	15190.8	16778.2	18252.4	20013.3	21345.0	21971.6	22073.9	21175.1	19551.2	17910.8	16460.4	57.5°
60°	15307.8	16856.8	18396.7	20298.3	21776.1	22119.5	21933.2	20879.2	19173.1	17412.1	15930.7	60°
62.5°	15295.0	16758.2	18321.8	20393.3	21862.0	21905.8	21482.0	20375.0	18477.1	16365.4	15050.2	62.5°
65°	14969.8	16398.3	17899.8	20040.7	21461.9	21273.8	20740.4	19428.8	17123.5	14999.0	14334.1	65°
67.5°	14032.7	15402.7	16796.5	18886.3	20334.8	20152.2	19344.8	17569.2	15550.7	13789.8	13431.7	67.5°
70°	12465.4	13627.2	14851.1	16686.9	18206.7	17960.1	16548.1	15468.5	13992.5	12392.3	12268.1	70°
72.5°	10421.3	11301.8	12189.6	13555.9	14602.6	14098.5	13210.7	13154.1	11961.2	10739.2	10764.7	72.5°
75°	8150.7	8812.0	9226.7	10030.4	10726.4	10275.2	10328.2	10642.4	10249.6	9286.9	8974.6	75°
77.5°	5905.7	6539.6	6671.1	7147.9	7637.4	8150.7	8830.3	9570.1	9694.3	9153.6	8021.0	77.5°
80°	3865.3	4563.1	4303.7	4473.6	5162.3	6099.4	7339.7	8558.1	8976.4	8490.5	7096.7	80°
82.5°	2279.7	3257.0	2844.2	3134.6	3571.2	4387.7	5244.5	6163.3	6862.9	6346.0	5927.6	82.5°
85°	1731.7	2568.3	2720.0	3072.5	3215.0	3249.7	3399.5	3699.1	4060.8	4195.9	4185.0	85°
87.5°	902.4	1996.6	2241.4	2073.3	1934.5	1676.9	1307.9	1408.4	1287.8	1760.9	1667.8	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: P159159

NUMBER: VST-E10-LED-E-U-SLR-7030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
3052.4	3052.4	3052.4	3052.4	3052.4	3052.4	3052.4
3229.6	3224.1	3227.8	3229.6	3229.6	3229.6	3233.3
3304.5	3289.9	3284.4	3284.4	3282.6	3277.1	3275.3
3384.9	3359.3	3350.2	3339.2	3330.1	3324.6	3315.5
3529.2	3507.3	3461.6	3436.0	3412.3	3395.8	3381.2
3722.8	3691.8	3647.9	3615.0	3578.5	3567.5	3549.3
4022.4	3995.0	3956.6	3920.1	3898.2	3859.8	3832.4
4490.0	4435.2	4396.9	4349.4	4296.4	4217.9	4179.5
5105.6	4996.0	4919.3	4877.3	4771.3	4758.6	4665.4
5812.6	5779.7	5662.8	5611.6	5509.3	5469.1	5323.0
6870.2	6844.6	6605.3	6579.8	6422.7	6305.8	6079.3
8260.3	8050.3	7779.9	7591.8	7323.2	7021.8	6636.4
9475.1	9045.8	8633.0	8194.6	7823.8	7390.8	6954.2
10249.6	9674.2	9142.6	8693.3	8234.8	7719.6	7158.8
10929.2	10348.3	9769.2	9237.6	8682.3	8022.9	7330.5
11742.0	11164.8	10512.7	9765.5	9053.1	8245.7	7400.0
12575.0	11899.1	11084.4	10169.2	9274.2	8355.3	7387.2
13428.1	12564.0	11480.8	10437.8	9414.8	8371.8	7301.3
14120.4	13028.0	11774.9	10574.8	9444.0	8315.1	7193.5
14610.0	13325.8	11906.4	10622.3	9407.5	8225.6	7047.4
14889.4	13488.4	11939.3	10587.6	9332.6	8097.8	6888.5
14991.7	13537.7	11906.4	10516.3	9265.0	7960.8	6777.1
14980.8	13510.3	11785.9	10350.1	9084.2	7778.1	6640.1
14774.4	13256.4	11539.3	10151.0	8930.7	7694.1	6649.2
14423.6	13095.6	11466.2	10191.2	9011.1	7874.9	6937.8
14264.7	13417.1	11877.2	10593.0	9423.9	8391.9	7533.3
14175.2	13939.6	12465.4	11026.0	9913.5	9018.4	8243.9
13809.9	14089.3	12799.7	11272.6	10350.1	9646.8	8954.5
13219.8	13740.4	12545.8	11225.1	10591.2	10129.1	9210.2
11988.6	12538.5	11415.1	10525.4	10289.8	10136.4	8826.6
9712.6	9997.5	9358.2	9157.3	9244.9	9246.8	7403.6
7162.5	6990.8	6702.2	6716.8	7306.8	7215.5	5277.3
5847.3	4786.0	4376.8	4532.0	5260.9	4868.2	3315.5
5441.7	4269.0	3523.7	3560.2	3973.1	3136.4	1996.6
4400.5	3890.9	3120.0	2800.3	2718.1	2089.7	1355.4
1841.3	1693.4	1260.4	1136.2	931.6	569.9	259.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)