

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

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P159073

Luminaire Tested: **VTS-F12-LED-E1-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159073
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33715)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F12-LED-E1-SLR-8030
Description: VENTUS LED SITE LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

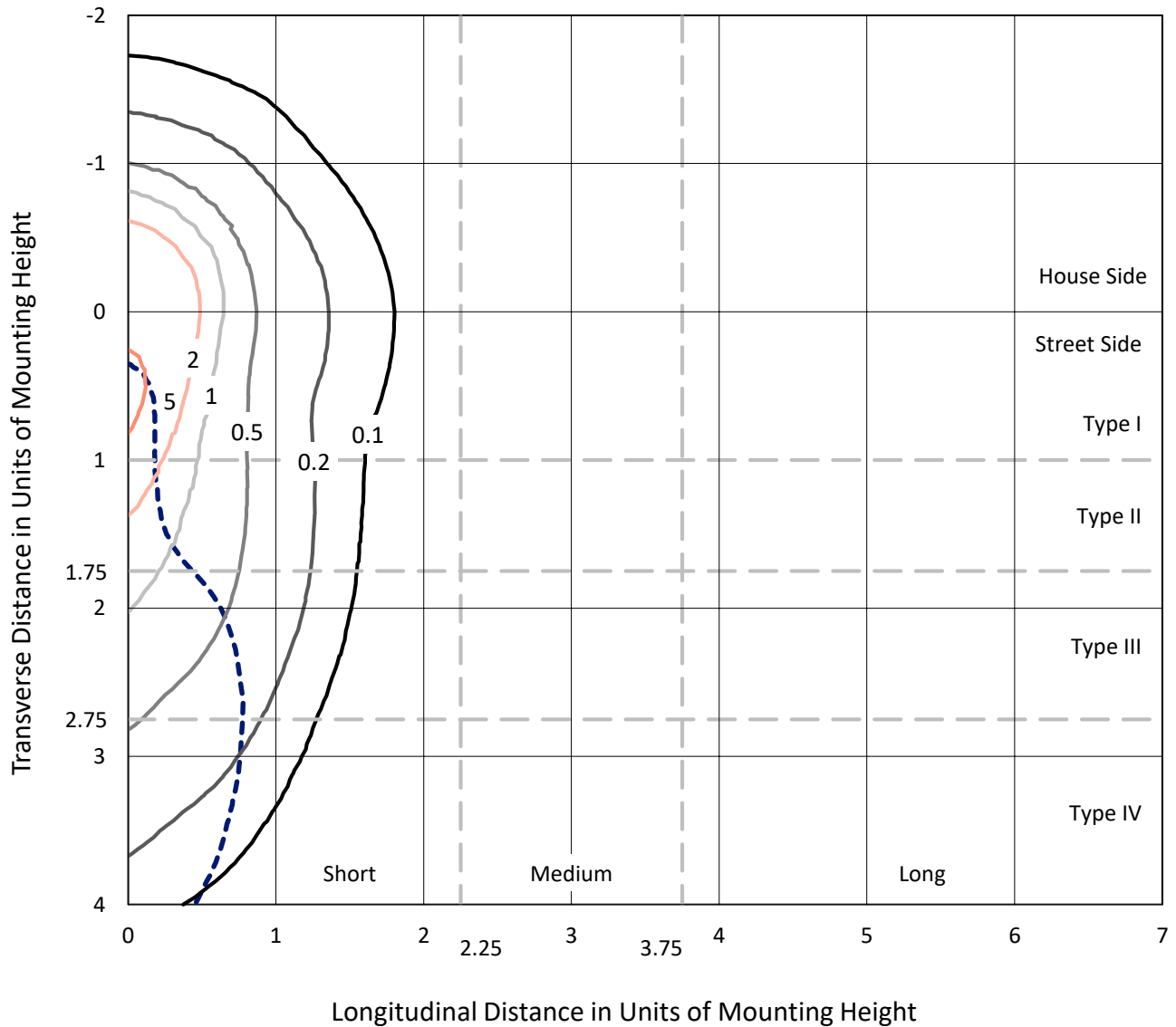
Lumens per Lamp: N/A
Luminaire Lumens: 22467.9 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

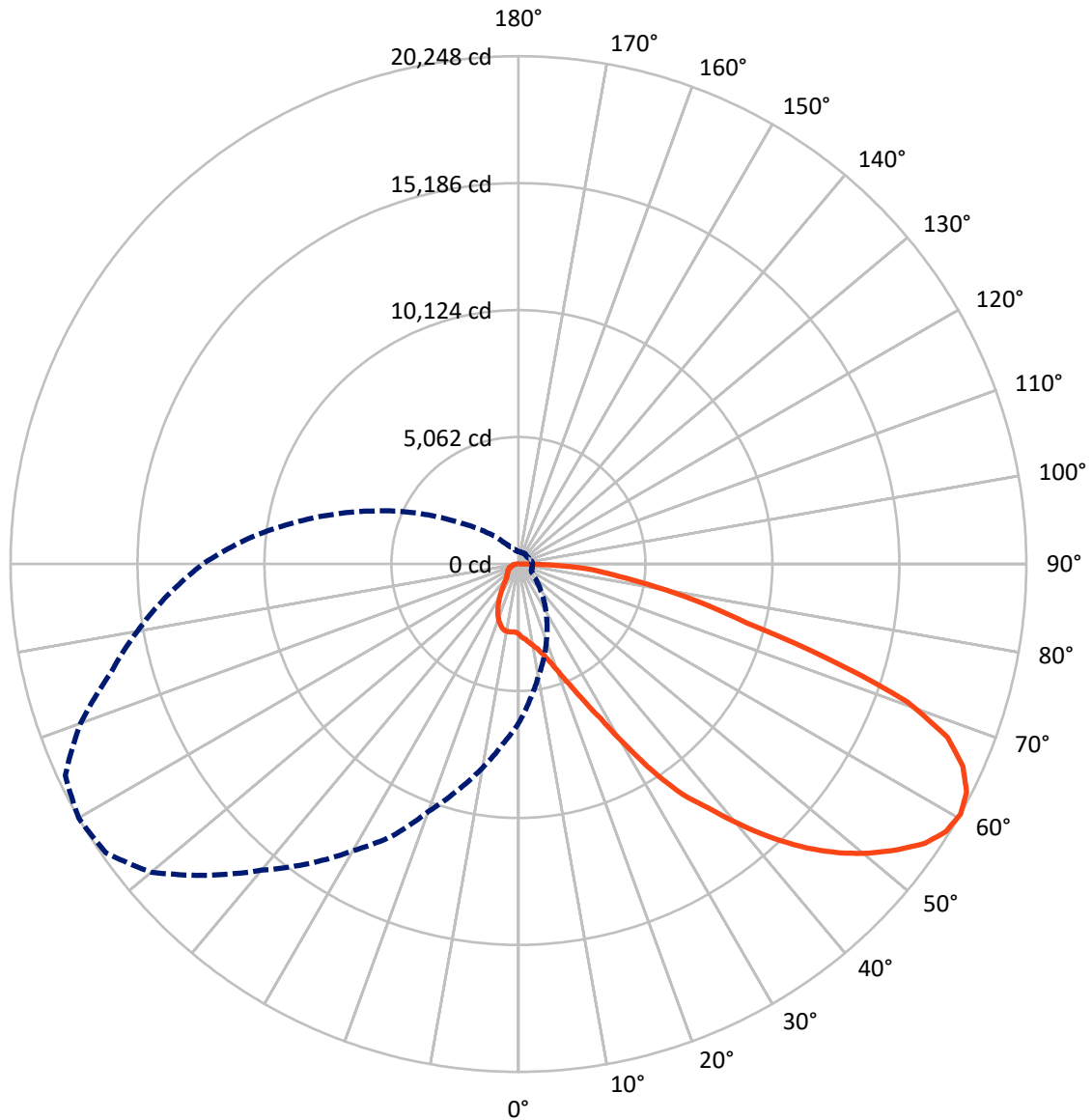
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5059.1	0.0	5059.1
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	17408.8	0.0	17408.8
	% Fixture	77.5	0.0	77.5
Total	Lumens	22467.9	0.0	22467.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.7	1.2
10°-20°	890.1	4.0
20°-30°	1689.0	7.5
30°-40°	2659.8	11.8
40°-50°	3712.5	16.5
50°-60°	4591.5	20.4
60°-70°	4759.3	21.2
70°-80°	2994.7	13.3
80°-90°	895.2	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°	22467.9	100.0
0°-180°	22467.9	100.0



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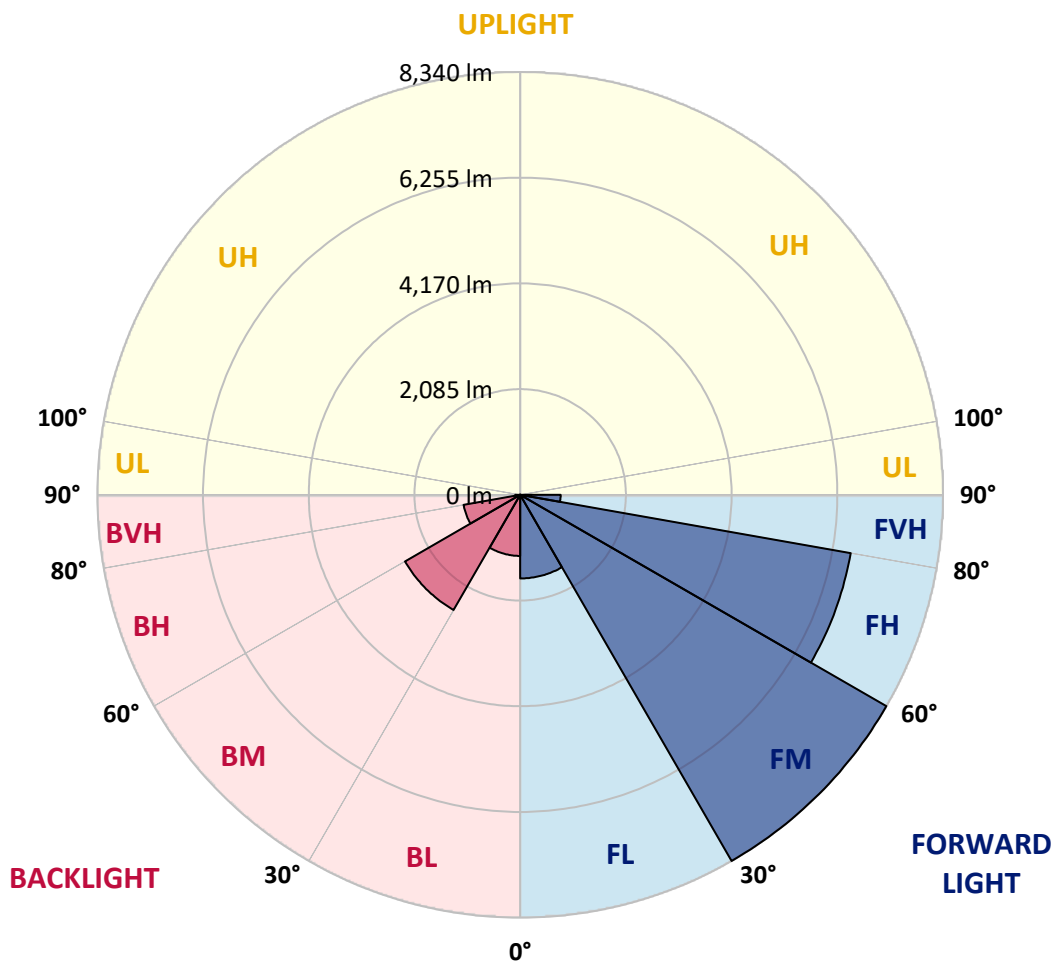
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1649.5	7.3			
FM	(30°-60°)	8340.4	37.1			
FH	(60°-80°)	6621.1	29.5			G3/7500
FVH	(80°-90°)	797.8	3.6			G5
BL	(0°-30°)	1205.3	5.4	B3/2500		
BM	(30°-60°)	2623.4	11.7	B3/5000		
BH	(60°-80°)	1133.0	5.0	B3/2500		G3/2500
BVH	(80°-90°)	97.4	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2
2.5°	2959.7	2782.5	2785.8	2780.8	2780.8	2777.5	2780.8	2777.5	2774.1	2774.1	2775.8
5°	2998.2	2802.5	2802.5	2797.5	2794.2	2790.8	2794.2	2790.8	2789.2	2785.8	2787.5
7.5°	3035.0	2814.3	2807.6	2800.9	2792.5	2795.9	2795.9	2794.2	2795.9	2794.2	2797.5
10°	3095.2	2852.7	2836.0	2820.9	2819.3	2815.9	2815.9	2810.9	2810.9	2807.6	2809.2
12.5°	3249.0	2971.4	2953.0	2926.3	2921.3	2906.2	2897.9	2887.8	2871.1	2856.1	2844.4
15°	3508.2	3168.8	3133.6	3110.2	3100.2	3070.1	3023.3	2986.5	2938.0	2896.2	2852.7
17.5°	3825.9	3433.0	3391.2	3361.1	3310.9	3229.0	3150.4	3060.1	2966.4	2881.1	2802.5
20°	4270.7	3812.5	3730.6	3658.7	3533.3	3392.8	3245.7	3088.5	2944.7	2810.9	2695.5
22.5°	4872.7	4302.5	4150.3	3958.0	3725.6	3488.1	3254.0	3036.7	2844.4	2670.4	2516.6
25°	5565.0	4770.7	4496.5	4165.4	3809.2	3481.4	3173.8	2894.5	2670.4	2446.4	2279.2
27.5°	6075.0	5162.0	4757.3	4322.5	3867.7	3449.7	3071.8	2734.0	2463.1	2234.0	2031.7
30°	6365.9	5386.0	4899.4	4389.4	3877.8	3396.2	2943.0	2551.7	2239.0	1966.5	1772.5
32.5°	6553.2	5506.4	4914.5	4322.5	3757.4	3237.3	2747.4	2341.0	2001.6	1710.6	1504.9
35°	6710.4	5554.9	4844.3	4173.7	3529.9	2996.5	2496.5	2090.2	1730.7	1463.1	1252.5
37.5°	6773.9	5546.6	4732.2	3974.7	3307.5	2734.0	2240.7	1824.3	1503.3	1267.5	1086.9
40°	6762.2	5469.7	4580.1	3762.4	3046.7	2459.8	1969.8	1603.6	1342.7	1143.8	1011.7
42.5°	6683.6	5367.7	4411.2	3546.7	2807.6	2232.3	1785.9	1461.5	1250.8	1100.3	984.9
45°	6585.0	5245.6	4257.3	3349.3	2618.6	2070.1	1678.9	1421.3	1239.1	1095.3	971.5
47.5°	6451.2	5110.1	4101.8	3208.9	2518.3	2021.6	1677.2	1444.8	1249.1	1083.6	948.1
50°	6305.7	5011.5	4016.5	3148.7	2506.6	2051.7	1735.7	1481.5	1255.8	1071.9	916.3
52.5°	6203.7	4968.0	4014.9	3170.4	2568.4	2135.4	1804.3	1528.4	1280.9	1078.5	909.7
55°	6078.3	4961.3	4058.3	3264.1	2703.9	2277.5	1913.0	1608.6	1332.7	1103.6	914.7
57.5°	6086.7	5093.4	4227.2	3494.8	2948.0	2469.8	2051.7	1707.3	1382.9	1118.7	906.3
60°	6350.9	5401.1	4560.0	3889.5	3267.4	2695.5	2193.9	1760.8	1379.5	1085.2	866.2
62.5°	6896.0	5862.6	5058.3	4352.6	3591.8	2869.4	2245.7	1745.7	1329.4	1013.3	801.0
65°	7546.5	6402.7	5543.2	4712.2	3789.1	2909.6	2200.6	1662.1	1229.0	919.7	722.4
67.5°	8197.0	6785.6	5822.5	4814.2	3708.9	2747.4	2033.4	1474.8	1058.5	792.6	633.8
70°	8431.1	6864.2	5800.7	4585.1	3344.3	2344.4	1673.8	1187.2	849.5	648.8	533.4
72.5°	8079.9	6372.6	5157.0	3896.1	2718.9	1817.6	1227.4	876.2	648.8	508.3	434.8
75°	6777.3	5131.9	4076.7	2934.7	1963.1	1285.9	886.2	638.8	488.3	403.0	347.8
77.5°	4830.9	3573.4	2777.5	1928.0	1274.2	891.3	635.4	479.9	387.9	322.7	282.6
80°	3035.0	2193.9	1692.2	1157.1	794.3	605.3	456.5	379.6	312.7	262.5	235.8
82.5°	1827.7	1277.5	996.6	719.0	521.7	414.7	336.1	297.6	249.2	217.4	202.3
85°	1240.7	939.8	653.8	424.7	314.4	244.1	229.1	205.7	185.6	155.5	150.5
87.5°	237.4	336.1	292.6	173.9	115.4	98.7	87.0	83.6	75.2	60.2	68.6
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°	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2
2.5°	2765.8	2762.4	2755.7	2755.7	2750.7	2740.7	2739.0	2732.3	2724.0	2725.6	2724.0
5°	2775.8	2769.1	2760.7	2757.4	2750.7	2740.7	2735.7	2727.3	2718.9	2718.9	2718.9
7.5°	2787.5	2779.1	2772.5	2760.7	2747.4	2737.3	2724.0	2713.9	2708.9	2707.2	2708.9
10°	2797.5	2792.5	2782.5	2765.8	2747.4	2727.3	2713.9	2700.5	2687.2	2688.8	2690.5
12.5°	2819.3	2802.5	2775.8	2750.7	2722.3	2697.2	2673.8	2657.1	2640.3	2640.3	2642.0
15°	2804.2	2755.7	2718.9	2670.4	2638.7	2598.5	2571.8	2556.7	2546.7	2543.4	2545.0
17.5°	2715.6	2657.1	2601.9	2558.4	2514.9	2483.2	2471.5	2461.4	2448.1	2454.7	2448.1
20°	2581.8	2509.9	2431.3	2379.5	2327.7	2305.9	2285.8	2275.8	2267.5	2297.6	2297.6
22.5°	2389.5	2302.6	2222.3	2158.8	2100.2	2076.8	2056.8	2045.1	2050.1	2086.9	2090.2
25°	2147.1	2041.7	1936.4	1897.9	1839.4	1821.0	1809.3	1807.6	1812.6	1849.4	1857.8
27.5°	1889.5	1779.2	1688.9	1600.3	1573.5	1558.5	1536.7	1561.8	1566.8	1607.0	1623.7
30°	1615.3	1496.6	1401.3	1342.7	1285.9	1294.3	1275.9	1306.0	1319.3	1361.1	1374.5
32.5°	1334.4	1222.4	1127.0	1068.5	1028.4	1033.4	1020.0	1046.8	1060.2	1110.3	1135.4
35°	1103.6	1008.3	931.4	881.2	862.8	844.4	841.1	844.4	857.8	896.3	941.4
37.5°	971.5	892.9	837.8	801.0	775.9	764.2	757.5	757.5	757.5	765.9	787.6
40°	914.7	844.4	796.0	760.8	744.1	737.4	732.4	727.4	719.0	715.7	717.4
42.5°	889.6	809.3	757.5	730.7	720.7	720.7	720.7	717.4	709.0	700.6	692.3
45°	864.5	777.6	725.7	707.3	702.3	704.0	704.0	704.0	697.3	687.3	672.2
47.5°	832.7	742.4	690.6	678.9	678.9	683.9	685.6	685.6	678.9	668.9	657.2
50°	794.3	697.3	650.5	640.4	635.4	635.4	635.4	635.4	630.4	623.7	615.4
52.5°	774.2	672.2	623.7	613.7	613.7	608.7	607.0	602.0	597.0	591.9	580.2
55°	767.5	662.2	612.0	603.7	603.7	598.6	593.6	588.6	580.2	571.9	560.2
57.5°	749.1	640.4	597.0	590.3	590.3	586.9	581.9	576.9	568.5	556.8	541.8
60°	707.3	603.7	566.9	565.2	565.2	563.5	560.2	560.2	551.8	540.1	521.7
62.5°	653.8	565.2	530.1	530.1	528.4	526.7	520.0	518.4	508.3	493.3	476.6
65°	602.0	531.7	508.3	501.6	498.3	493.3	489.9	481.6	473.2	459.8	443.1
67.5°	536.8	481.6	466.5	459.8	453.2	448.1	443.1	438.1	428.1	418.0	404.7
70°	466.5	426.4	418.0	416.4	408.0	403.0	401.3	396.3	386.3	376.2	359.5
72.5°	399.6	376.2	369.5	369.5	359.5	352.8	349.5	347.8	341.1	332.8	317.7
75°	322.7	306.0	304.3	312.7	312.7	307.7	304.3	307.7	297.6	292.6	277.6
77.5°	264.2	255.8	250.8	254.2	264.2	259.2	252.5	252.5	252.5	244.1	239.1
80°	224.1	217.4	212.4	215.7	214.0	212.4	209.0	202.3	202.3	202.3	200.7
82.5°	202.3	200.7	182.3	182.3	175.6	170.6	167.2	163.9	160.5	160.5	168.9
85°	152.2	157.2	147.2	145.5	137.1	130.4	123.7	120.4	117.1	122.1	138.8
87.5°	73.6	73.6	70.2	78.6	71.9	68.6	63.5	60.2	63.5	78.6	93.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2
2.5°	2720.6	2718.9	2717.3	2713.9	2707.2	2705.6	2702.2	2702.2	2700.5	2697.2	2700.5
5°	2715.6	2718.9	2718.9	2717.3	2712.3	2715.6	2715.6	2720.6	2720.6	2724.0	2732.3
7.5°	2708.9	2717.3	2724.0	2729.0	2735.7	2740.7	2750.7	2765.8	2772.5	2784.2	2789.2
10°	2695.5	2710.6	2722.3	2737.3	2754.1	2772.5	2787.5	2810.9	2819.3	2836.0	2844.4
12.5°	2657.1	2682.2	2702.2	2732.3	2760.7	2789.2	2815.9	2846.0	2861.1	2879.5	2891.2
15°	2563.4	2591.9	2620.3	2647.0	2697.2	2752.4	2795.9	2836.0	2857.7	2881.1	2892.8
17.5°	2451.4	2469.8	2493.2	2528.3	2576.8	2625.3	2695.5	2752.4	2785.8	2812.6	2815.9
20°	2321.0	2347.7	2364.4	2377.8	2416.3	2449.7	2525.0	2590.2	2633.7	2665.4	2673.8
22.5°	2122.0	2150.4	2178.8	2188.9	2219.0	2262.4	2304.2	2374.5	2436.3	2483.2	2511.6
25°	1894.6	1921.3	1959.8	1989.9	1996.6	2031.7	2073.5	2153.7	2217.3	2292.5	2326.0
27.5°	1667.1	1690.6	1732.4	1749.1	1769.2	1804.3	1837.7	1904.6	1971.5	2058.4	2095.2
30°	1401.3	1451.4	1499.9	1531.7	1548.4	1590.2	1613.6	1678.9	1740.7	1804.3	1857.8
32.5°	1173.9	1219.0	1274.2	1314.3	1334.4	1366.2	1402.9	1458.1	1506.6	1568.5	1630.4
35°	964.8	1026.7	1063.5	1098.6	1150.4	1165.5	1202.3	1252.5	1280.9	1347.8	1418.0
37.5°	817.7	854.5	891.3	926.4	969.9	989.9	1025.0	1066.8	1100.3	1140.4	1204.0
40°	727.4	747.5	774.2	797.6	829.4	854.5	872.9	908.0	933.1	973.2	1018.3
42.5°	685.6	690.6	693.9	710.7	727.4	744.1	764.2	779.2	809.3	839.4	867.9
45°	662.2	652.1	647.1	648.8	655.5	665.5	682.2	699.0	719.0	737.4	754.1
47.5°	642.1	628.7	613.7	605.3	607.0	610.3	623.7	637.1	647.1	662.2	668.9
50°	595.3	583.6	570.2	558.5	560.2	561.8	573.6	583.6	590.3	595.3	603.7
52.5°	565.2	548.5	536.8	525.1	523.4	528.4	538.4	548.5	551.8	555.2	556.8
55°	543.5	526.7	511.7	500.0	495.0	506.7	510.0	523.4	528.4	528.4	530.1
57.5°	526.7	506.7	491.6	479.9	471.6	479.9	488.3	503.3	505.0	501.6	501.6
60°	501.6	486.6	471.6	459.8	451.5	458.2	464.9	481.6	481.6	473.2	471.6
62.5°	458.2	449.8	439.8	434.8	433.1	439.8	444.8	458.2	453.2	443.1	439.8
65°	426.4	419.7	409.7	406.3	404.7	414.7	416.4	424.7	418.0	413.0	411.4
67.5°	387.9	382.9	377.9	376.2	371.2	371.2	374.6	379.6	376.2	376.2	377.9
70°	344.5	337.8	332.8	334.4	331.1	331.1	332.8	336.1	334.4	337.8	341.1
72.5°	304.3	296.0	294.3	294.3	291.0	292.6	292.6	294.3	297.6	299.3	307.7
75°	265.9	257.5	257.5	255.8	255.8	255.8	257.5	260.9	264.2	265.9	269.2
77.5°	230.8	225.7	227.4	225.7	225.7	225.7	225.7	230.8	232.4	234.1	239.1
80°	199.0	199.0	200.7	200.7	199.0	197.3	199.0	202.3	204.0	205.7	207.3
82.5°	180.6	182.3	182.3	182.3	173.9	170.6	175.6	178.9	182.3	183.9	187.3
85°	155.5	148.8	155.5	153.8	142.1	140.5	140.5	142.1	145.5	142.1	142.1
87.5°	100.3	90.3	95.3	95.3	83.6	68.6	87.0	93.6	83.6	88.6	88.6
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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CATALOG NUMBER: VTS-F12-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2
2.5°	2705.6	2702.2	2703.9	2703.9	2707.2	2702.2	2708.9	2715.6	2717.3	2717.3	2718.9
5°	2740.7	2737.3	2749.0	2744.0	2755.7	2754.1	2762.4	2769.1	2772.5	2772.5	2772.5
7.5°	2795.9	2807.6	2814.3	2832.6	2834.3	2844.4	2852.7	2861.1	2857.7	2859.4	2857.7
10°	2857.7	2872.8	2889.5	2907.9	2909.6	2921.3	2934.7	2943.0	2939.7	2938.0	2933.0
12.5°	2911.2	2921.3	2941.3	2959.7	2969.8	2988.2	3001.5	3008.2	3008.2	3003.2	2998.2
15°	2907.9	2922.9	2944.7	2971.4	2989.8	3016.6	3040.0	3055.0	3056.7	3051.7	3050.0
17.5°	2834.3	2856.1	2876.1	2912.9	2946.4	2983.1	3021.6	3043.3	3063.4	3075.1	3081.8
20°	2702.2	2729.0	2757.4	2805.9	2851.0	2899.5	2944.7	2976.5	3006.6	3041.7	3083.5
22.5°	2546.7	2586.8	2627.0	2688.8	2744.0	2799.2	2851.0	2889.5	2936.3	2996.5	3075.1
25°	2364.4	2406.2	2456.4	2528.3	2598.5	2678.8	2755.7	2832.6	2922.9	3026.6	3148.7
27.5°	2148.7	2195.6	2260.8	2347.7	2428.0	2509.9	2630.3	2752.4	2899.5	3033.3	3172.1
30°	1934.7	1994.9	2065.1	2152.1	2232.3	2349.4	2469.8	2620.3	2775.8	2926.3	3091.8
32.5°	1703.9	1779.2	1866.1	1938.0	2028.3	2147.1	2267.5	2428.0	2593.5	2770.8	2953.0
35°	1481.5	1553.4	1622.0	1702.3	1792.6	1904.6	2021.6	2175.5	2384.5	2573.5	2790.8
37.5°	1255.8	1322.7	1371.2	1434.7	1513.3	1637.0	1762.5	1939.7	2137.0	2369.5	2586.8
40°	1058.5	1113.7	1168.8	1219.0	1285.9	1402.9	1536.7	1710.6	1904.6	2130.3	2372.8
42.5°	901.3	943.1	1003.3	1063.5	1120.4	1220.7	1346.1	1516.7	1709.0	1939.7	2182.2
45°	769.2	797.6	846.1	896.3	966.5	1050.1	1170.5	1344.4	1540.1	1772.5	2028.3
47.5°	673.9	687.3	720.7	772.5	837.8	919.7	1023.4	1180.5	1371.2	1605.3	1874.5
50°	608.7	623.7	640.4	683.9	742.4	826.0	911.3	1048.4	1222.4	1451.4	1719.0
52.5°	563.5	570.2	576.9	603.7	657.2	727.4	817.7	921.4	1096.9	1316.0	1556.8
55°	536.8	538.4	543.5	556.8	597.0	662.2	740.8	839.4	976.5	1183.9	1429.7
57.5°	505.0	508.3	513.4	521.7	546.8	605.3	672.2	752.5	866.2	1040.1	1275.9
60°	474.9	483.3	491.6	496.6	510.0	545.1	602.0	665.5	757.5	887.9	1075.2
62.5°	443.1	453.2	459.8	464.9	469.9	491.6	533.4	575.2	632.1	717.4	857.8
65°	414.7	421.4	426.4	429.7	433.1	439.8	458.2	474.9	491.6	543.5	645.5
67.5°	382.9	386.3	387.9	389.6	387.9	387.9	389.6	396.3	403.0	423.1	471.6
70°	346.1	351.2	351.2	352.8	352.8	347.8	347.8	347.8	347.8	352.8	379.6
72.5°	311.0	317.7	317.7	319.4	317.7	316.0	316.0	316.0	321.1	324.4	334.4
75°	277.6	284.3	282.6	284.3	285.9	285.9	289.3	291.0	296.0	297.6	304.3
77.5°	244.1	249.2	250.8	249.2	252.5	255.8	262.5	265.9	267.5	269.2	270.9
80°	212.4	215.7	214.0	209.0	217.4	222.4	232.4	244.1	240.8	242.5	245.8
82.5°	175.6	170.6	167.2	170.6	175.6	182.3	192.3	207.3	209.0	217.4	215.7
85°	135.4	120.4	118.7	127.1	125.4	133.8	150.5	162.2	172.2	180.6	172.2
87.5°	80.3	71.9	60.2	56.9	61.9	81.9	85.3	103.7	112.0	115.4	103.7
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: P159073

CATALOG NUMBER: VTS-F12-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2
2.5°	2871.1	2879.5	2879.5	2882.8	2887.8	2889.5	2896.2	2907.9	2909.6	2909.6	2914.6
5°	2924.6	2933.0	2933.0	2939.7	2941.3	2949.7	2958.1	2971.4	2978.1	2976.5	2998.2
7.5°	3011.6	3004.9	2999.9	3009.9	3014.9	3024.9	3041.7	3053.4	3065.1	3083.5	3113.6
10°	3085.1	3075.1	3070.1	3076.8	3080.1	3091.8	3101.9	3118.6	3147.0	3175.4	3212.2
12.5°	3145.3	3133.6	3120.3	3123.6	3128.6	3143.7	3160.4	3182.1	3223.9	3260.7	3315.9
15°	3195.5	3178.8	3165.4	3172.1	3183.8	3203.9	3232.3	3270.8	3339.3	3402.9	3476.4
17.5°	3244.0	3240.7	3235.6	3257.4	3265.7	3312.6	3354.4	3424.6	3518.2	3613.5	3718.9
20°	3290.8	3327.6	3346.0	3389.5	3416.2	3479.8	3543.3	3628.6	3747.3	3877.8	4021.6
22.5°	3356.0	3456.4	3518.2	3606.9	3652.0	3720.6	3814.2	3926.2	4058.3	4225.6	4409.5
25°	3511.5	3658.7	3782.4	3921.2	4034.9	4140.3	4252.3	4387.8	4578.4	4730.6	4971.3
27.5°	3580.1	3787.5	3973.1	4168.7	4339.3	4501.5	4678.7	4842.6	5068.3	5274.0	5565.0
30°	3514.9	3749.0	3989.8	4245.6	4494.8	4740.6	4998.1	5248.9	5509.8	5797.4	6106.7
32.5°	3394.5	3657.0	3927.9	4228.9	4538.3	4857.6	5192.1	5556.6	5924.5	6282.3	6598.4
35°	3272.4	3555.0	3856.0	4200.5	4565.0	4961.3	5376.0	5837.5	6324.1	6777.3	7190.3
37.5°	3095.2	3406.2	3750.7	4148.6	4581.7	5070.0	5603.4	6172.0	6787.3	7411.0	7952.8
40°	2881.1	3210.6	3586.8	4045.0	4565.0	5182.0	5876.0	6605.1	7396.0	8156.8	8822.3
42.5°	2685.5	3006.6	3407.9	3906.2	4521.5	5280.7	6135.2	7043.2	7979.6	8830.7	9700.2
45°	2513.3	2867.8	3270.8	3809.2	4499.8	5364.3	6327.5	7370.9	8442.8	9456.1	10482.8
47.5°	2356.1	2724.0	3175.4	3755.7	4489.8	5414.5	6461.2	7584.9	8772.2	9936.0	11128.3
50°	2193.9	2551.7	3035.0	3697.2	4464.7	5412.8	6531.5	7730.4	9002.9	10308.9	11573.1
52.5°	2020.0	2379.5	2864.4	3590.1	4411.2	5382.7	6549.9	7829.1	9185.2	10538.0	11951.0
55°	1861.1	2197.2	2682.2	3411.2	4299.1	5309.1	6508.1	7870.9	9314.0	10765.4	12216.8
57.5°	1678.9	2028.3	2489.9	3165.4	4088.4	5178.7	6389.3	7812.4	9350.7	10917.6	12427.5
60°	1428.0	1770.8	2245.7	2874.5	3759.0	4902.8	6168.6	7635.1	9233.7	10944.3	12578.0
62.5°	1140.4	1436.4	1894.6	2473.1	3295.8	4469.7	5760.6	7237.1	8869.2	10693.5	12501.1
65°	847.8	1045.1	1439.7	1948.1	2759.1	3817.6	5103.4	6569.9	8156.8	9996.2	12017.9
67.5°	590.3	732.4	974.9	1352.8	2006.6	2948.0	4165.4	5528.2	7054.9	8705.3	11014.6
70°	446.5	511.7	643.8	854.5	1299.3	2008.3	3028.3	4242.3	5658.6	7248.8	9424.3
72.5°	381.3	414.7	488.3	585.3	796.0	1220.7	1901.3	2919.6	4175.4	5469.7	7230.4
75°	342.8	371.2	418.0	479.9	563.5	740.8	1115.3	1847.7	2765.8	3663.7	5044.9
77.5°	311.0	336.1	377.9	409.7	454.8	533.4	710.7	1105.3	1657.1	2264.1	3130.3
80°	277.6	292.6	331.1	362.9	398.0	443.1	510.0	693.9	951.5	1341.1	1846.1
82.5°	237.4	249.2	277.6	321.1	347.8	366.2	386.3	459.8	570.2	727.4	1025.0
85°	183.9	192.3	217.4	249.2	260.9	262.5	265.9	285.9	354.5	545.1	882.9
87.5°	93.6	103.7	130.4	140.5	118.7	128.8	130.4	138.8	183.9	299.3	304.3
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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 CATALOG NUMBER: VTS-F12-LED-E1-SLR-8030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	0°
2.5°	2914.6	2919.6	2931.3	2929.6	2938.0	2938.0	2938.0	2946.4	2941.3	2946.4	2954.7	2.5°
5°	2998.2	3006.6	3023.3	3023.3	3024.9	3019.9	3030.0	3036.7	3028.3	3024.9	3026.6	5°
7.5°	3120.3	3133.6	3147.0	3160.4	3170.4	3165.4	3167.1	3152.0	3148.7	3137.0	3121.9	7.5°
10°	3239.0	3275.8	3300.9	3324.3	3325.9	3320.9	3322.6	3297.5	3292.5	3269.1	3254.0	10°
12.5°	3361.1	3407.9	3448.0	3473.1	3488.1	3491.5	3493.2	3493.2	3469.7	3449.7	3414.6	12.5°
15°	3541.6	3623.6	3685.5	3712.2	3733.9	3754.0	3759.0	3765.7	3747.3	3720.6	3715.6	15°
17.5°	3827.6	3904.5	3986.4	4058.3	4106.8	4110.2	4152.0	4148.6	4187.1	4157.0	4148.6	17.5°
20°	4167.0	4334.3	4419.5	4514.8	4570.0	4596.8	4693.8	4663.7	4692.1	4740.6	4692.1	20°
22.5°	4591.8	4804.1	4927.9	5058.3	5148.6	5213.8	5284.0	5339.2	5416.1	5452.9	5419.5	22.5°
25°	5155.3	5397.7	5544.9	5725.5	5869.3	5986.4	6108.4	6255.6	6253.9	6342.5	6404.4	25°
27.5°	5802.4	6111.8	6325.8	6643.5	6767.3	6964.6	7173.6	7401.0	7441.1	7556.5	7615.0	27.5°
30°	6411.1	6794.0	7218.7	7596.6	8024.7	8317.4	8559.8	8720.3	8962.8	8902.6	8869.2	30°
32.5°	6972.9	7482.9	8088.3	8708.6	9387.5	9850.7	10278.8	10477.8	10628.3	10308.9	9885.8	32.5°
35°	7702.0	8312.3	9004.6	9770.5	10633.3	11290.5	11731.9	11793.8	11708.5	11298.8	10598.2	35°
37.5°	8605.0	9245.4	10033.0	10842.3	11758.7	12375.7	12879.0	12969.3	12743.6	12012.8	11277.1	37.5°
40°	9496.2	10247.0	11101.5	12059.7	13009.4	13688.3	14193.3	14220.1	13852.2	12997.7	12136.6	40°
42.5°	10471.1	11292.1	12243.6	13305.4	14287.0	14974.2	15338.8	15454.2	14934.1	13838.8	13012.8	42.5°
45°	11312.2	12293.8	13353.9	14482.6	15509.3	16161.5	16532.7	16495.9	15867.2	14785.3	13817.1	45°
47.5°	12131.6	13211.8	14328.8	15527.7	16547.7	17206.6	17587.8	17554.4	16756.8	15511.0	14445.8	47.5°
50°	12860.6	14032.8	15226.7	16507.6	17524.3	18127.9	18594.5	18447.3	17439.0	16094.6	14850.5	50°
52.5°	13367.3	14674.9	15922.4	17306.9	18353.7	18925.6	19519.2	19046.0	17842.0	16452.4	15067.9	52.5°
55°	13688.3	15116.4	16417.3	17949.0	18977.4	19661.3	20044.2	19372.0	17997.5	16551.1	15143.1	55°
57.5°	13905.7	15358.8	16708.3	18320.2	19539.3	20112.8	20206.4	19383.7	17897.2	16395.6	15067.9	57.5°
60°	14012.7	15430.7	16840.4	18581.1	19933.9	20248.2	20077.7	19112.8	17551.0	15939.1	14583.0	60°
62.5°	14001.0	15340.4	16771.8	18668.1	20012.5	20052.6	19664.7	18651.3	16914.0	14980.9	13777.0	62.5°
65°	13703.4	15011.0	16385.5	18345.3	19646.3	19474.0	18985.8	17785.2	15674.9	13730.1	13121.5	65°
67.5°	12845.6	14099.7	15375.6	17288.5	18614.5	18447.3	17708.2	16082.9	14235.1	12623.2	12295.4	67.5°
70°	11410.9	12474.4	13594.7	15275.2	16666.5	16440.7	15148.1	14159.9	12808.8	11344.0	11230.3	70°
72.5°	9539.7	10345.7	11158.4	12409.1	13367.3	12905.8	12093.1	12041.3	10949.3	9830.7	9854.1	72.5°
75°	7461.2	8066.5	8446.1	9181.9	9819.0	9405.9	9454.4	9742.0	9382.5	8501.3	8215.3	75°
77.5°	5406.1	5986.4	6106.7	6543.2	6991.3	7461.2	8083.2	8760.5	8874.2	8379.2	7342.5	77.5°
80°	3538.3	4177.1	3939.6	4095.1	4725.5	5583.4	6718.8	7834.1	8217.0	7772.2	6496.4	80°
82.5°	2086.9	2981.5	2603.6	2869.4	3269.1	4016.5	4800.8	5641.9	6282.3	5809.1	5426.2	82.5°
85°	1585.2	2351.1	2489.9	2812.6	2943.0	2974.8	3111.9	3386.1	3717.2	3841.0	3830.9	85°
87.5°	826.0	1827.7	2051.7	1897.9	1770.8	1535.0	1197.3	1289.2	1178.9	1612.0	1526.7	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°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2
2956.4	2951.4	2954.7	2956.4	2956.4	2956.4	2959.7
3024.9	3011.6	3006.6	3006.6	3004.9	2999.9	2998.2
3098.5	3075.1	3066.8	3056.7	3048.4	3043.3	3035.0
3230.6	3210.6	3168.8	3145.3	3123.6	3108.6	3095.2
3407.9	3379.4	3339.3	3309.2	3275.8	3265.7	3249.0
3682.1	3657.0	3621.9	3588.5	3568.4	3533.3	3508.2
4110.2	4060.0	4024.9	3981.4	3932.9	3861.0	3825.9
4673.7	4573.4	4503.1	4464.7	4367.7	4356.0	4270.7
5320.8	5290.7	5183.7	5136.9	5043.3	5006.5	4872.7
6289.0	6265.6	6046.5	6023.1	5879.3	5772.3	5565.0
7561.5	7369.2	7121.8	6949.5	6703.7	6427.8	6075.0
8673.5	8280.6	7902.7	7501.3	7161.9	6765.6	6365.9
9382.5	8855.8	8369.2	7957.8	7538.1	7066.6	6553.2
10004.6	9472.8	8942.7	8456.1	7947.8	7344.2	6710.4
10748.7	10220.3	9623.3	8939.4	8287.3	7548.2	6773.9
11511.2	10892.5	10146.7	9308.9	8489.6	7648.5	6762.2
12292.1	11501.2	10509.6	9554.8	8618.3	7663.5	6683.6
12925.8	11925.9	10778.8	9680.2	8645.1	7611.7	6585.0
13374.0	12198.4	10899.2	9723.6	8611.7	7529.8	6451.2
13629.8	12347.3	10929.3	9691.9	8543.1	7412.7	6305.7
13723.5	12392.4	10899.2	9626.7	8481.2	7287.3	6203.7
13713.4	12367.3	10788.8	9474.5	8315.7	7120.1	6078.3
13524.5	12134.9	10563.1	9292.2	8175.2	7043.2	6086.7
13203.4	11987.8	10496.2	9329.0	8248.8	7208.7	6350.9
13057.9	12282.1	10872.4	9696.9	8626.7	7681.9	6896.0
12976.0	12760.3	11410.9	10093.2	9074.8	8255.5	7546.5
12641.6	12897.4	11716.9	10318.9	9474.5	8830.7	8197.0
12101.5	12578.0	11484.4	10275.5	9695.2	9272.2	8431.1
10974.4	11477.7	10449.4	9635.0	9419.3	9278.8	8079.9
8890.9	9151.8	8566.5	8382.6	8462.8	8464.5	6777.3
6556.6	6399.4	6135.2	6148.6	6688.7	6605.1	4830.9
5352.6	4381.1	4006.5	4148.6	4815.8	4456.3	3035.0
4981.4	3907.9	3225.6	3259.1	3637.0	2871.1	1827.7
4028.2	3561.7	2856.1	2563.4	2488.2	1913.0	1240.7
1685.5	1550.1	1153.8	1040.1	852.8	521.7	237.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)