

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: P159038

Luminaire Tested: **VTS-E09-LED-E1-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159038
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-E09-LED-E1-SLR-8030
Description: VENTUS LED SITE LUMINAIRE
(9) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (189) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20412.4 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

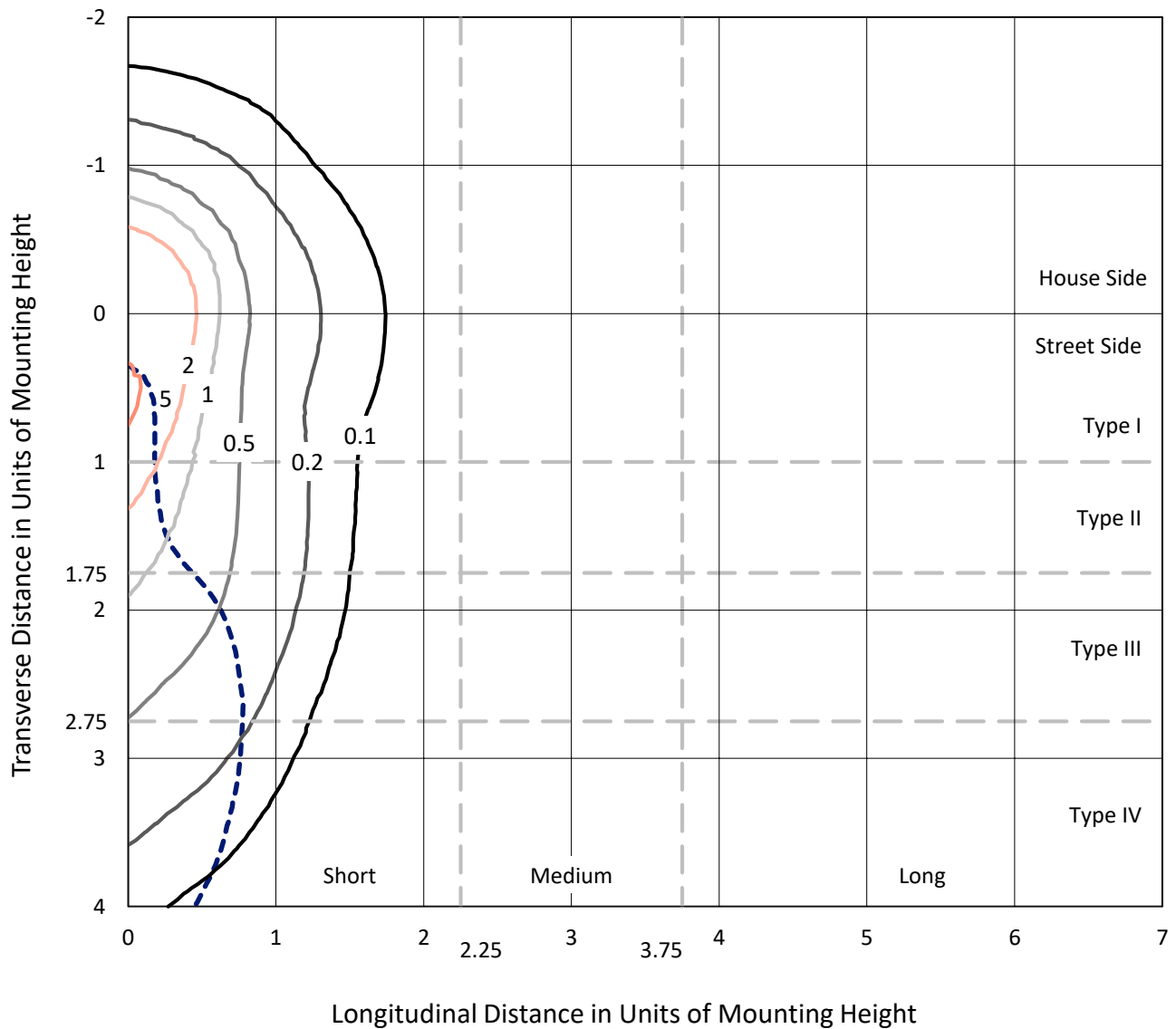
Input Watts (W): 225.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

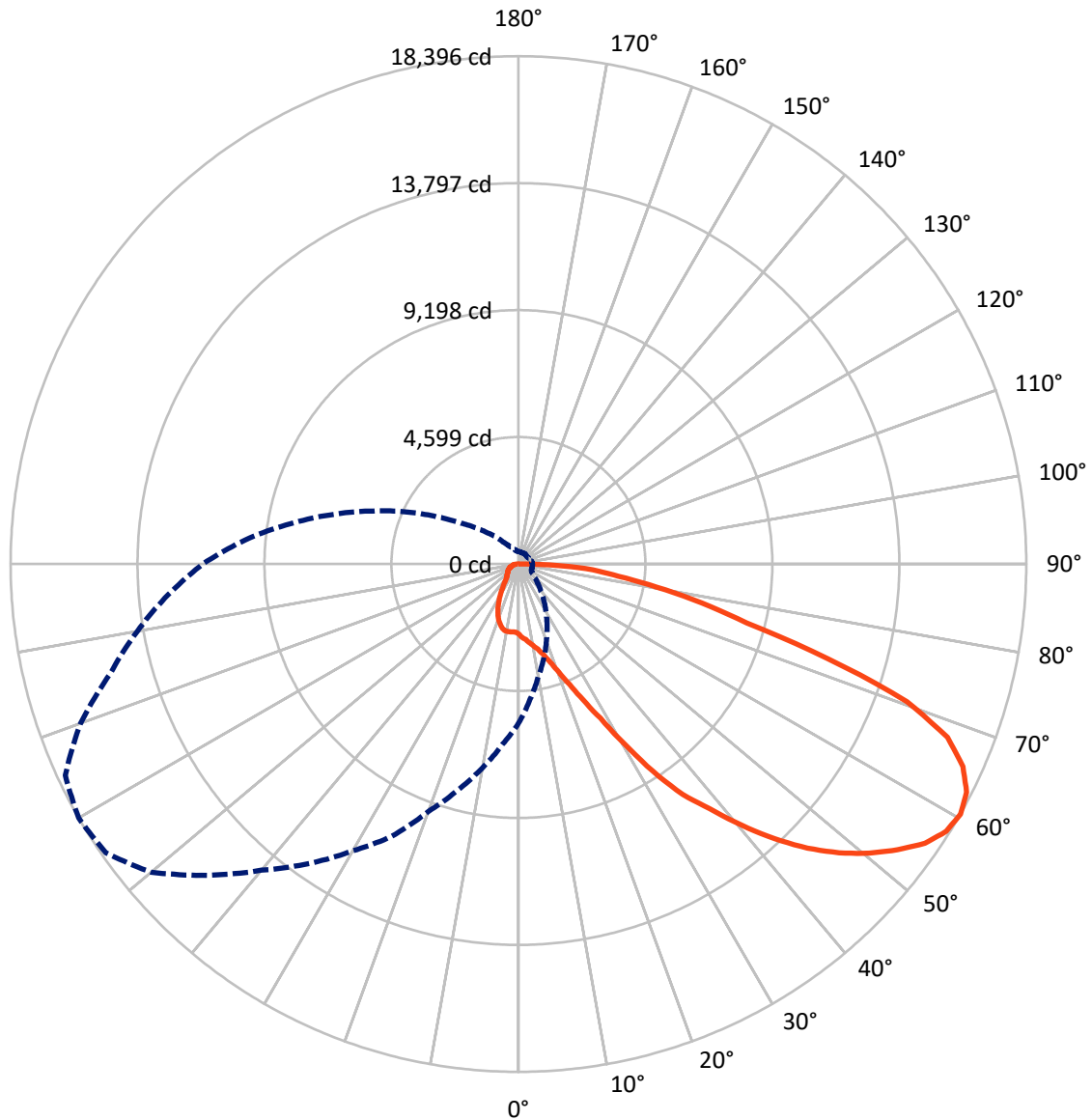
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	4596.2	0.0	4596.2
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	15816.1	0.0	15816.1
	% Fixture	77.5	0.0	77.5
Total	Lumens	20412.4	0.0	20412.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.5	1.2
10°-20°	808.6	4.0
20°-30°	1534.5	7.5
30°-40°	2416.5	11.8
40°-50°	3372.9	16.5
50°-60°	4171.4	20.4
60°-70°	4323.9	21.2
70°-80°	2720.8	13.3
80°-90°	813.3	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°	20412.4	100.0
0°-180°	20412.4	100.0



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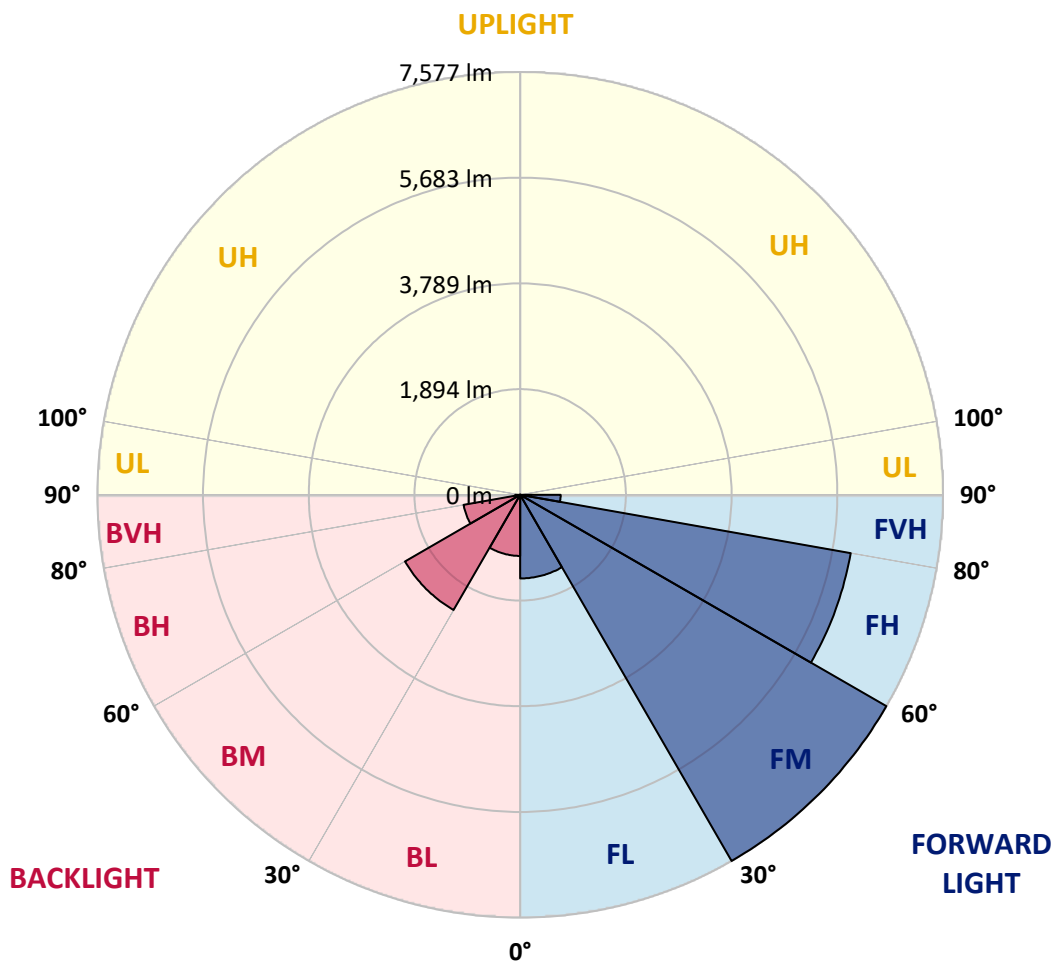
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1498.6	7.3			
FM	(30°-60°)	7577.4	37.1			
FH	(60°-80°)	6015.3	29.5			G3/7500
FVH	(80°-90°)	724.8	3.6			G4/750
BL	(0°-30°)	1095.0	5.4	B3/2500		
BM	(30°-60°)	2383.4	11.7	B2/2500		
BH	(60°-80°)	1029.3	5.0	B3/2500		G3/2500
BVH	(80°-90°)	88.5	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°	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6
2.5°	2689.0	2527.9	2531.0	2526.4	2526.4	2523.4	2526.4	2523.4	2520.3	2520.3	2521.8
5°	2723.9	2546.2	2546.2	2541.6	2538.6	2535.5	2538.6	2535.5	2534.0	2531.0	2532.5
7.5°	2757.3	2556.8	2550.7	2544.6	2537.0	2540.1	2540.1	2538.6	2540.1	2538.6	2541.6
10°	2812.0	2591.7	2576.5	2562.9	2561.3	2558.3	2558.3	2553.7	2553.7	2550.7	2552.2
12.5°	2951.8	2699.6	2682.9	2658.6	2654.0	2640.3	2632.7	2623.6	2608.4	2594.8	2584.1
15°	3187.2	2878.9	2847.0	2825.7	2816.6	2789.2	2746.7	2713.3	2669.2	2631.2	2591.7
17.5°	3475.9	3118.9	3080.9	3053.6	3008.0	2933.5	2862.1	2780.1	2695.0	2617.6	2546.2
20°	3880.0	3463.7	3389.3	3324.0	3210.0	3082.4	2948.7	2805.9	2675.3	2553.7	2448.9
22.5°	4426.9	3908.9	3770.6	3595.9	3384.7	3169.0	2956.3	2758.8	2584.1	2426.1	2286.4
25°	5055.8	4334.2	4085.1	3784.3	3460.7	3162.9	2883.4	2629.7	2426.1	2222.6	2070.6
27.5°	5519.2	4689.7	4322.1	3927.1	3513.9	3134.1	2790.7	2483.9	2237.8	2029.6	1845.8
30°	5783.5	4893.3	4451.2	3987.9	3523.0	3085.5	2673.8	2318.3	2034.2	1786.6	1610.3
32.5°	5953.7	5002.7	4464.9	3927.1	3413.6	2941.1	2496.0	2126.9	1818.5	1554.1	1367.3
35°	6096.5	5046.7	4401.1	3791.9	3207.0	2722.4	2268.1	1899.0	1572.4	1329.3	1137.9
37.5°	6154.2	5039.1	4299.3	3611.1	3004.9	2483.9	2035.7	1657.4	1365.7	1151.5	987.5
40°	6143.6	4969.2	4161.0	3418.2	2768.0	2234.7	1789.6	1456.9	1219.9	1039.1	919.1
42.5°	6072.2	4876.6	4007.6	3222.2	2550.7	2028.1	1622.5	1327.8	1136.3	999.6	894.8
45°	5982.5	4765.7	3867.8	3042.9	2379.0	1880.7	1525.3	1291.3	1125.7	995.1	882.6
47.5°	5861.0	4642.6	3726.6	2915.3	2287.9	1836.7	1523.7	1312.6	1134.8	984.4	861.4
50°	5728.8	4553.0	3649.1	2860.6	2277.3	1864.0	1576.9	1346.0	1140.9	973.8	832.5
52.5°	5636.2	4513.5	3647.6	2880.4	2333.5	1940.0	1639.2	1388.5	1163.7	979.9	826.4
55°	5522.2	4507.4	3687.1	2965.4	2456.5	2069.1	1737.9	1461.5	1210.8	1002.7	831.0
57.5°	5529.8	4627.4	3840.5	3175.1	2678.3	2243.8	1864.0	1551.1	1256.4	1016.3	823.4
60°	5769.9	4907.0	4142.8	3533.6	2968.5	2448.9	1993.2	1599.7	1253.3	986.0	786.9
62.5°	6265.1	5326.3	4595.5	3954.4	3263.2	2606.9	2040.3	1586.0	1207.8	920.6	727.7
65°	6856.1	5817.0	5036.1	4281.1	3442.5	2643.4	1999.2	1510.1	1116.6	835.6	656.3
67.5°	7447.0	6164.8	5289.8	4373.7	3369.5	2496.0	1847.3	1339.9	961.6	720.1	575.8
70°	7659.7	6236.2	5270.0	4165.6	3038.4	2129.9	1520.7	1078.6	771.7	589.4	484.6
72.5°	7340.7	5789.6	4685.2	3539.7	2470.2	1651.4	1115.1	796.1	589.4	461.8	395.0
75°	6157.3	4662.4	3703.8	2666.2	1783.5	1168.3	805.2	580.3	443.6	366.1	316.0
77.5°	4388.9	3246.5	2523.4	1751.6	1157.6	809.7	577.3	436.0	352.5	293.2	256.7
80°	2757.3	1993.2	1537.4	1051.3	721.6	549.9	414.7	344.9	284.1	238.5	214.2
82.5°	1660.5	1160.7	905.4	653.2	474.0	376.8	305.4	270.4	226.4	197.5	183.8
85°	1127.2	853.8	594.0	385.9	285.6	221.8	208.1	186.9	168.6	141.3	136.7
87.5°	215.7	305.4	265.9	158.0	104.8	89.6	79.0	76.0	68.4	54.7	62.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6
2.5°	2512.7	2509.7	2503.6	2503.6	2499.1	2489.9	2488.4	2482.3	2474.8	2476.3	2474.8
5°	2521.8	2515.8	2508.2	2505.1	2499.1	2489.9	2485.4	2477.8	2470.2	2470.2	2470.2
7.5°	2532.5	2524.9	2518.8	2508.2	2496.0	2486.9	2474.8	2465.6	2461.1	2459.6	2461.1
10°	2541.6	2537.0	2527.9	2512.7	2496.0	2477.8	2465.6	2453.5	2441.3	2442.8	2444.4
12.5°	2561.3	2546.2	2521.8	2499.1	2473.2	2450.4	2429.2	2414.0	2398.8	2398.8	2400.3
15°	2547.7	2503.6	2470.2	2426.1	2397.3	2360.8	2336.5	2322.8	2313.7	2310.7	2312.2
17.5°	2467.2	2414.0	2363.8	2324.4	2284.9	2256.0	2245.4	2236.2	2224.1	2230.2	2224.1
20°	2345.6	2280.3	2208.9	2161.8	2114.7	2095.0	2076.7	2067.6	2060.0	2087.4	2087.4
22.5°	2170.9	2091.9	2019.0	1961.3	1908.1	1886.8	1868.6	1858.0	1862.5	1895.9	1899.0
25°	1950.6	1854.9	1759.2	1724.3	1671.1	1654.4	1643.8	1642.2	1646.8	1680.2	1687.8
27.5°	1716.7	1616.4	1534.4	1453.9	1429.6	1415.9	1396.1	1418.9	1423.5	1459.9	1475.1
30°	1467.5	1359.7	1273.1	1219.9	1168.3	1175.8	1159.1	1186.5	1198.6	1236.6	1248.8
32.5°	1212.3	1110.5	1023.9	970.8	934.3	938.9	926.7	951.0	963.2	1008.7	1031.5
35°	1002.7	916.1	846.2	800.6	783.9	767.2	764.1	767.2	779.3	814.3	855.3
37.5°	882.6	811.2	761.1	727.7	704.9	694.3	688.2	688.2	688.2	695.8	715.5
40°	831.0	767.2	723.1	691.2	676.0	670.0	665.4	660.8	653.2	650.2	651.7
42.5°	808.2	735.3	688.2	663.9	654.8	654.8	654.8	651.7	644.1	636.5	628.9
45°	785.4	706.4	659.3	642.6	638.1	639.6	639.6	639.6	633.5	624.4	610.7
47.5°	756.6	674.5	627.4	616.8	616.8	621.3	622.9	622.9	616.8	607.7	597.0
50°	721.6	633.5	591.0	581.8	577.3	577.3	577.3	577.3	572.7	566.7	559.1
52.5°	703.4	610.7	566.7	557.5	557.5	553.0	551.5	546.9	542.3	537.8	527.2
55°	697.3	601.6	556.0	548.4	548.4	543.9	539.3	534.8	527.2	519.6	508.9
57.5°	680.6	581.8	542.3	536.3	536.3	533.2	528.7	524.1	516.5	505.9	492.2
60°	642.6	548.4	515.0	513.5	513.5	512.0	508.9	508.9	501.3	490.7	474.0
62.5°	594.0	513.5	481.6	481.6	480.1	478.5	472.5	470.9	461.8	448.2	433.0
65°	546.9	483.1	461.8	455.8	452.7	448.2	445.1	437.5	429.9	417.8	402.6
67.5°	487.7	437.5	423.9	417.8	411.7	407.1	402.6	398.0	388.9	379.8	367.6
70°	423.9	387.4	379.8	378.3	370.7	366.1	364.6	360.0	350.9	341.8	326.6
72.5°	363.1	341.8	335.7	335.7	326.6	320.5	317.5	316.0	309.9	302.3	288.6
75°	293.2	278.0	276.5	284.1	284.1	279.5	276.5	279.5	270.4	265.9	252.2
77.5°	240.0	232.4	227.9	230.9	240.0	235.5	229.4	229.4	229.4	221.8	217.2
80°	203.6	197.5	192.9	196.0	194.5	192.9	189.9	183.8	183.8	183.8	182.3
82.5°	183.8	182.3	165.6	165.6	159.5	155.0	151.9	148.9	145.8	145.8	153.4
85°	138.2	142.8	133.7	132.2	124.6	118.5	112.4	109.4	106.3	110.9	126.1
87.5°	66.8	66.8	63.8	71.4	65.3	62.3	57.7	54.7	57.7	71.4	85.1
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°	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6
2.5°	2471.7	2470.2	2468.7	2465.6	2459.6	2458.0	2455.0	2455.0	2453.5	2450.4	2453.5
5°	2467.2	2470.2	2470.2	2468.7	2464.1	2467.2	2467.2	2471.7	2471.7	2474.8	2482.3
7.5°	2461.1	2468.7	2474.8	2479.3	2485.4	2489.9	2499.1	2512.7	2518.8	2529.4	2534.0
10°	2448.9	2462.6	2473.2	2486.9	2502.1	2518.8	2532.5	2553.7	2561.3	2576.5	2584.1
12.5°	2414.0	2436.8	2455.0	2482.3	2508.2	2534.0	2558.3	2585.7	2599.3	2616.0	2626.7
15°	2328.9	2354.7	2380.6	2404.9	2450.4	2500.6	2540.1	2576.5	2596.3	2617.6	2628.2
17.5°	2227.1	2243.8	2265.1	2297.0	2341.1	2385.1	2448.9	2500.6	2531.0	2555.3	2558.3
20°	2108.6	2132.9	2148.1	2160.3	2195.2	2225.6	2294.0	2353.2	2392.7	2421.6	2429.2
22.5°	1927.8	1953.7	1979.5	1988.6	2016.0	2055.5	2093.4	2157.2	2213.5	2256.0	2281.8
25°	1721.2	1745.5	1780.5	1807.8	1813.9	1845.8	1883.8	1956.7	2014.4	2082.8	2113.2
27.5°	1514.6	1535.9	1573.9	1589.1	1607.3	1639.2	1669.6	1730.4	1791.1	1870.1	1903.5
30°	1273.1	1318.7	1362.7	1391.6	1406.8	1444.7	1466.0	1525.3	1581.5	1639.2	1687.8
32.5°	1066.5	1107.5	1157.6	1194.1	1212.3	1241.2	1274.6	1324.7	1368.8	1425.0	1481.2
35°	876.6	932.8	966.2	998.1	1045.2	1058.9	1092.3	1137.9	1163.7	1224.5	1288.3
37.5°	742.9	776.3	809.7	841.6	881.1	899.4	931.3	969.2	999.6	1036.1	1093.8
40°	660.8	679.1	703.4	724.7	753.5	776.3	793.0	824.9	847.7	884.2	925.2
42.5°	622.9	627.4	630.5	645.7	660.8	676.0	694.3	707.9	735.3	762.6	788.5
45°	601.6	592.5	587.9	589.4	595.5	604.6	619.8	635.0	653.2	670.0	685.2
47.5°	583.4	571.2	557.5	549.9	551.5	554.5	566.7	578.8	587.9	601.6	607.7
50°	540.8	530.2	518.0	507.4	508.9	510.4	521.1	530.2	536.3	540.8	548.4
52.5°	513.5	498.3	487.7	477.0	475.5	480.1	489.2	498.3	501.3	504.4	505.9
55°	493.7	478.5	464.9	454.2	449.7	460.3	463.4	475.5	480.1	480.1	481.6
57.5°	478.5	460.3	446.6	436.0	428.4	436.0	443.6	457.3	458.8	455.8	455.8
60°	455.8	442.1	428.4	417.8	410.2	416.3	422.3	437.5	437.5	429.9	428.4
62.5°	416.3	408.7	399.5	395.0	393.5	399.5	404.1	416.3	411.7	402.6	399.5
65°	387.4	381.3	372.2	369.2	367.6	376.8	378.3	385.9	379.8	375.2	373.7
67.5°	352.5	347.9	343.3	341.8	337.3	337.3	340.3	344.9	341.8	341.8	343.3
70°	313.0	306.9	302.3	303.8	300.8	300.8	302.3	305.4	303.8	306.9	309.9
72.5°	276.5	268.9	267.4	267.4	264.3	265.9	265.9	267.4	270.4	271.9	279.5
75°	241.6	234.0	234.0	232.4	232.4	232.4	234.0	237.0	240.0	241.6	244.6
77.5°	209.6	205.1	206.6	205.1	205.1	205.1	205.1	209.6	211.2	212.7	217.2
80°	180.8	180.8	182.3	182.3	180.8	179.3	180.8	183.8	185.3	186.9	188.4
82.5°	164.1	165.6	165.6	165.6	158.0	155.0	159.5	162.6	165.6	167.1	170.1
85°	141.3	135.2	141.3	139.8	129.1	127.6	127.6	129.1	132.2	129.1	129.1
87.5°	91.2	82.0	86.6	86.6	76.0	62.3	79.0	85.1	76.0	80.5	80.5
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-E09-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6
2.5°	2458.0	2455.0	2456.5	2456.5	2459.6	2455.0	2461.1	2467.2	2468.7	2468.7	2470.2
5°	2489.9	2486.9	2497.5	2493.0	2503.6	2502.1	2509.7	2515.8	2518.8	2518.8	2518.8
7.5°	2540.1	2550.7	2556.8	2573.5	2575.0	2584.1	2591.7	2599.3	2596.3	2597.8	2596.3
10°	2596.3	2610.0	2625.1	2641.9	2643.4	2654.0	2666.2	2673.8	2670.7	2669.2	2664.6
12.5°	2644.9	2654.0	2672.2	2689.0	2698.1	2714.8	2726.9	2733.0	2733.0	2728.5	2723.9
15°	2641.9	2655.5	2675.3	2699.6	2716.3	2740.6	2761.9	2775.5	2777.1	2772.5	2771.0
17.5°	2575.0	2594.8	2613.0	2646.4	2676.8	2710.2	2745.2	2764.9	2783.1	2793.8	2799.9
20°	2455.0	2479.3	2505.1	2549.2	2590.2	2634.3	2675.3	2704.1	2731.5	2763.4	2801.4
22.5°	2313.7	2350.2	2386.6	2442.8	2493.0	2543.1	2590.2	2625.1	2667.7	2722.4	2793.8
25°	2148.1	2186.1	2231.7	2297.0	2360.8	2433.7	2503.6	2573.5	2655.5	2749.7	2860.6
27.5°	1952.2	1994.7	2053.9	2132.9	2205.9	2280.3	2389.7	2500.6	2634.3	2755.8	2881.9
30°	1757.7	1812.4	1876.2	1955.2	2028.1	2134.5	2243.8	2380.6	2521.8	2658.6	2809.0
32.5°	1548.0	1616.4	1695.4	1760.7	1842.8	1950.6	2060.0	2205.9	2356.3	2517.3	2682.9
35°	1346.0	1411.3	1473.6	1546.5	1628.6	1730.4	1836.7	1976.5	2166.4	2338.0	2535.5
37.5°	1140.9	1201.7	1245.7	1303.5	1374.9	1487.3	1601.2	1762.3	1941.5	2152.7	2350.2
40°	961.6	1011.8	1061.9	1107.5	1168.3	1274.6	1396.1	1554.1	1730.4	1935.4	2155.7
42.5°	818.8	856.8	911.5	966.2	1017.9	1109.0	1222.9	1377.9	1552.6	1762.3	1982.5
45°	698.8	724.7	768.7	814.3	878.1	954.0	1063.4	1221.4	1399.2	1610.3	1842.8
47.5°	612.2	624.4	654.8	701.9	761.1	835.6	929.7	1072.5	1245.7	1458.4	1703.0
50°	553.0	566.7	581.8	621.3	674.5	750.5	828.0	952.5	1110.5	1318.7	1561.7
52.5°	512.0	518.0	524.1	548.4	597.0	660.8	742.9	837.1	996.6	1195.6	1414.4
55°	487.7	489.2	493.7	505.9	542.3	601.6	673.0	762.6	887.2	1075.6	1298.9
57.5°	458.8	461.8	466.4	474.0	496.8	549.9	610.7	683.6	786.9	944.9	1159.1
60°	431.4	439.0	446.6	451.2	463.4	495.3	546.9	604.6	688.2	806.7	976.8
62.5°	402.6	411.7	417.8	422.3	426.9	446.6	484.6	522.6	574.3	651.7	779.3
65°	376.8	382.8	387.4	390.4	393.5	399.5	416.3	431.4	446.6	493.7	586.4
67.5°	347.9	350.9	352.5	354.0	352.5	352.5	354.0	360.0	366.1	384.4	428.4
70°	314.5	319.0	319.0	320.5	320.5	316.0	316.0	316.0	316.0	320.5	344.9
72.5°	282.6	288.6	288.6	290.2	288.6	287.1	287.1	287.1	291.7	294.7	303.8
75°	252.2	258.3	256.7	258.3	259.8	259.8	262.8	264.3	268.9	270.4	276.5
77.5°	221.8	226.4	227.9	226.4	229.4	232.4	238.5	241.6	243.1	244.6	246.1
80°	192.9	196.0	194.5	189.9	197.5	202.1	211.2	221.8	218.8	220.3	223.3
82.5°	159.5	155.0	151.9	155.0	159.5	165.6	174.7	188.4	189.9	197.5	196.0
85°	123.1	109.4	107.9	115.5	113.9	121.5	136.7	147.4	156.5	164.1	156.5
87.5°	72.9	65.3	54.7	51.7	56.2	74.4	77.5	94.2	101.8	104.8	94.2
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: P159038

CATALOG NUMBER: VTS-E09-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6
2.5°	2608.4	2616.0	2616.0	2619.1	2623.6	2625.1	2631.2	2641.9	2643.4	2643.4	2647.9
5°	2657.1	2664.6	2664.6	2670.7	2672.2	2679.8	2687.4	2699.6	2705.7	2704.1	2723.9
7.5°	2736.0	2730.0	2725.4	2734.5	2739.1	2748.2	2763.4	2774.0	2784.7	2801.4	2828.7
10°	2802.9	2793.8	2789.2	2795.3	2798.3	2809.0	2818.1	2833.3	2859.1	2884.9	2918.4
12.5°	2857.6	2847.0	2834.8	2837.8	2842.4	2856.1	2871.3	2891.0	2929.0	2962.4	3012.5
15°	2903.2	2888.0	2875.8	2881.9	2892.5	2910.8	2936.6	2971.5	3033.8	3091.5	3158.4
17.5°	2947.2	2944.2	2939.6	2959.4	2967.0	3009.5	3047.5	3111.3	3196.4	3283.0	3378.7
20°	2989.8	3023.2	3039.9	3079.4	3103.7	3161.4	3219.2	3296.6	3404.5	3523.0	3653.6
22.5°	3049.0	3140.2	3196.4	3276.9	3317.9	3380.2	3465.3	3567.0	3687.1	3839.0	4006.1
25°	3190.3	3324.0	3436.4	3562.5	3665.8	3761.5	3863.3	3986.3	4159.5	4297.8	4516.5
27.5°	3252.6	3441.0	3609.6	3787.3	3942.3	4089.6	4250.7	4399.6	4604.6	4791.5	5055.8
30°	3193.3	3406.0	3624.8	3857.2	4083.6	4306.9	4540.8	4768.7	5005.7	5267.0	5548.1
32.5°	3083.9	3322.5	3568.6	3842.0	4123.1	4413.2	4717.1	5048.2	5382.5	5707.6	5994.7
35°	2973.0	3229.8	3503.2	3816.2	4147.4	4507.4	4884.2	5303.5	5745.6	6157.3	6532.5
37.5°	2812.0	3094.6	3407.5	3769.1	4162.6	4606.2	5090.8	5607.3	6166.4	6733.0	7225.2
40°	2617.6	2916.8	3258.6	3674.9	4147.4	4708.0	5338.4	6000.8	6719.3	7410.6	8015.2
42.5°	2439.8	2731.5	3096.1	3548.8	4107.9	4797.6	5573.9	6398.8	7249.5	8022.8	8812.8
45°	2283.3	2605.4	2971.5	3460.7	4088.1	4873.5	5748.6	6696.6	7670.4	8591.0	9523.8
47.5°	2140.5	2474.8	2884.9	3412.1	4079.0	4919.1	5870.1	6891.0	7969.6	9027.0	10110.2
50°	1993.2	2318.3	2757.3	3358.9	4056.2	4917.6	5933.9	7023.2	8179.3	9365.8	10514.3
52.5°	1835.2	2161.8	2602.4	3261.7	4007.6	4890.3	5950.6	7112.8	8344.9	9573.9	10857.6
55°	1690.9	1996.2	2436.8	3099.1	3905.8	4823.4	5912.7	7150.8	8461.9	9780.5	11099.2
57.5°	1525.3	1842.8	2262.1	2875.8	3714.4	4704.9	5804.8	7097.6	8495.3	9918.8	11290.6
60°	1297.4	1608.8	2040.3	2611.5	3415.1	4454.2	5604.3	6936.6	8388.9	9943.1	11427.3
62.5°	1036.1	1305.0	1721.2	2246.9	2994.3	4060.8	5233.6	6575.0	8057.8	9715.2	11357.4
65°	770.2	949.5	1308.0	1769.8	2506.7	3468.3	4636.5	5968.9	7410.6	9081.7	10918.4
67.5°	536.3	665.4	885.7	1229.0	1823.0	2678.3	3784.3	5022.4	6409.4	7908.9	10006.9
70°	405.6	464.9	584.9	776.3	1180.4	1824.5	2751.2	3854.2	5140.9	6585.7	8562.1
72.5°	346.4	376.8	443.6	531.7	723.1	1109.0	1727.3	2652.5	3793.4	4969.2	6569.0
75°	311.4	337.3	379.8	436.0	512.0	673.0	1013.3	1678.7	2512.7	3328.5	4583.4
77.5°	282.6	305.4	343.3	372.2	413.2	484.6	645.7	1004.2	1505.5	2057.0	2843.9
80°	252.2	265.9	300.8	329.7	361.6	402.6	463.4	630.5	864.4	1218.4	1677.2
82.5°	215.7	226.4	252.2	291.7	316.0	332.7	350.9	417.8	518.0	660.8	931.3
85°	167.1	174.7	197.5	226.4	237.0	238.5	241.6	259.8	322.1	495.3	802.1
87.5°	85.1	94.2	118.5	127.6	107.9	117.0	118.5	126.1	167.1	271.9	276.5
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: P159038
 CATALOG NUMBER: VTS-E09-LED-E1-SLR-8030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	0°
2.5°	2647.9	2652.5	2663.1	2661.6	2669.2	2669.2	2669.2	2676.8	2672.2	2676.8	2684.4	2.5°
5°	2723.9	2731.5	2746.7	2746.7	2748.2	2743.6	2752.8	2758.8	2751.2	2748.2	2749.7	5°
7.5°	2834.8	2847.0	2859.1	2871.3	2880.4	2875.8	2877.3	2863.7	2860.6	2850.0	2836.3	7.5°
10°	2942.7	2976.1	2998.9	3020.1	3021.7	3017.1	3018.6	2995.8	2991.3	2970.0	2956.3	10°
12.5°	3053.6	3096.1	3132.6	3155.3	3169.0	3172.1	3173.6	3173.6	3152.3	3134.1	3102.2	12.5°
15°	3217.6	3292.1	3348.3	3372.6	3392.3	3410.6	3415.1	3421.2	3404.5	3380.2	3375.6	15°
17.5°	3477.4	3547.3	3621.7	3687.1	3731.1	3734.2	3772.1	3769.1	3804.0	3776.7	3769.1	17.5°
20°	3785.8	3937.7	4015.2	4101.8	4151.9	4176.2	4264.3	4237.0	4262.8	4306.9	4262.8	20°
22.5°	4171.7	4364.6	4477.0	4595.5	4677.6	4736.8	4800.6	4850.8	4920.6	4954.1	4923.7	22.5°
25°	4683.6	4903.9	5037.6	5201.7	5332.3	5438.7	5549.6	5683.3	5681.7	5762.3	5818.5	25°
27.5°	5271.6	5552.6	5747.1	6035.7	6148.1	6327.4	6517.3	6723.9	6760.4	6865.2	6918.4	27.5°
30°	5824.6	6172.4	6558.3	6901.7	7290.6	7556.4	7776.7	7922.5	8142.8	8088.1	8057.8	30°
32.5°	6335.0	6798.3	7348.3	7911.9	8528.7	8949.5	9338.4	9519.2	9655.9	9365.8	8981.4	32.5°
35°	6997.4	7551.9	8180.8	8876.6	9660.5	10257.5	10658.6	10714.8	10637.3	10265.1	9628.6	35°
37.5°	7817.7	8399.6	9115.1	9850.4	10682.9	11243.5	11700.8	11782.8	11577.7	10913.8	10245.4	37.5°
40°	8627.4	9309.6	10085.9	10956.4	11819.2	12436.0	12894.8	12919.1	12584.9	11808.6	11026.2	40°
42.5°	9513.1	10259.0	11123.5	12088.1	12979.9	13604.3	13935.5	14040.3	13567.8	12572.8	11822.3	42.5°
45°	10277.3	11169.0	12132.2	13157.6	14090.4	14682.9	15020.2	14986.7	14415.5	13432.6	12553.0	45°
47.5°	11021.7	12003.1	13017.9	14107.1	15033.8	15632.4	15978.8	15948.4	15223.7	14091.9	13124.2	47.5°
50°	11684.0	12749.0	13833.7	14997.4	15921.0	16469.5	16893.3	16759.6	15843.6	14622.1	13491.9	50°
52.5°	12144.4	13332.4	14465.7	15723.6	16674.6	17194.1	17733.4	17303.5	16209.7	14947.2	13689.4	52.5°
55°	12436.0	13733.4	14915.3	16306.9	17241.2	17862.6	18210.5	17599.7	16351.0	15036.9	13757.7	55°
57.5°	12633.5	13953.7	15179.7	16644.2	17751.7	18272.7	18357.8	17610.4	16259.8	14895.6	13689.4	57.5°
60°	12730.8	14019.0	15299.7	16881.2	18110.2	18395.8	18240.8	17364.3	15945.4	14480.9	13248.8	60°
62.5°	12720.1	13937.0	15237.4	16960.2	18181.6	18218.1	17865.6	16945.0	15366.5	13610.4	12516.6	62.5°
65°	12449.7	13637.7	14886.5	16667.0	17848.9	17692.4	17248.8	16158.0	14240.8	12474.0	11921.0	65°
67.5°	11670.4	12809.8	13968.9	15706.8	16911.6	16759.6	16088.2	14611.5	12932.8	11468.3	11170.6	67.5°
70°	10366.9	11333.1	12351.0	13877.7	15141.7	14936.6	13762.3	12864.4	11636.9	10306.1	10202.8	70°
72.5°	8666.9	9399.2	10137.5	11273.9	12144.4	11725.1	10986.7	10939.6	9947.6	8931.3	8952.5	72.5°
75°	6778.6	7328.5	7673.4	8341.8	8920.6	8545.4	8589.5	8850.8	8524.1	7723.5	7463.7	75°
77.5°	4911.5	5438.7	5548.1	5944.6	6351.7	6778.6	7343.7	7959.0	8062.3	7612.6	6670.7	77.5°
80°	3214.6	3794.9	3579.2	3720.5	4293.2	5072.6	6104.1	7117.4	7465.3	7061.2	5902.0	80°
82.5°	1895.9	2708.7	2365.4	2606.9	2970.0	3649.1	4361.6	5125.7	5707.6	5277.6	4929.8	82.5°
85°	1440.2	2136.0	2262.1	2555.3	2673.8	2702.6	2827.2	3076.3	3377.1	3489.6	3480.4	85°
87.5°	750.5	1660.5	1864.0	1724.3	1608.8	1394.6	1087.7	1171.3	1071.0	1464.5	1387.0	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: P159038

NUMBER: VTS-E09-LED-E1-SLR-8030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
2538.6	2538.6	2538.6	2538.6	2538.6	2538.6	2538.6
2685.9	2681.4	2684.4	2685.9	2685.9	2685.9	2689.0
2748.2	2736.0	2731.5	2731.5	2730.0	2725.4	2723.9
2815.0	2793.8	2786.2	2777.1	2769.5	2764.9	2757.3
2935.1	2916.8	2878.9	2857.6	2837.8	2824.2	2812.0
3096.1	3070.3	3033.8	3006.5	2976.1	2967.0	2951.8
3345.2	3322.5	3290.6	3260.2	3241.9	3210.0	3187.2
3734.2	3688.6	3656.7	3617.2	3573.1	3507.8	3475.9
4246.1	4155.0	4091.2	4056.2	3968.1	3957.5	3880.0
4834.0	4806.7	4709.5	4666.9	4581.9	4548.4	4426.9
5713.6	5692.4	5493.4	5472.1	5341.4	5244.2	5055.8
6869.7	6695.0	6470.2	6313.7	6090.4	5839.7	5519.2
7880.0	7523.0	7179.7	6815.1	6506.7	6146.6	5783.5
8524.1	8045.6	7603.5	7229.8	6848.5	6420.1	5953.7
9089.3	8606.2	8124.6	7682.5	7220.7	6672.3	6096.5
9765.3	9285.3	8742.9	8121.6	7529.1	6857.6	6154.2
10458.1	9896.0	9218.4	8457.3	7712.9	6948.7	6143.6
11167.5	10448.9	9548.1	8680.6	7829.9	6962.4	6072.2
11743.3	10834.8	9792.7	8794.6	7854.2	6915.3	5982.5
12150.4	11082.4	9902.0	8834.1	7823.8	6840.9	5861.0
12382.9	11217.7	9929.4	8805.2	7761.5	6734.5	5728.8
12467.9	11258.7	9902.0	8745.9	7705.3	6620.6	5636.2
12458.8	11235.9	9801.8	8607.7	7554.9	6468.7	5522.2
12287.2	11024.7	9596.7	8442.1	7427.3	6398.8	5529.8
11995.5	10891.0	9535.9	8475.5	7494.1	6549.2	5769.9
11863.3	11158.4	9877.7	8809.7	7837.5	6979.1	6265.1
11788.9	11592.9	10366.9	9169.8	8244.6	7500.2	6856.1
11485.0	11717.5	10644.9	9374.9	8607.7	8022.8	7447.0
10994.3	11427.3	10433.8	9335.4	8808.2	8423.9	7659.7
9970.4	10427.7	9493.4	8753.5	8557.6	8430.0	7340.7
8077.5	8314.5	7782.8	7615.7	7688.6	7690.1	6157.3
5956.7	5813.9	5573.9	5586.0	6076.7	6000.8	4388.9
4862.9	3980.3	3640.0	3769.1	4375.2	4048.6	2757.3
4525.6	3550.3	2930.5	2960.9	3304.2	2608.4	1660.5
3659.7	3235.9	2594.8	2328.9	2260.5	1737.9	1127.2
1531.3	1408.3	1048.2	944.9	774.8	474.0	215.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)