

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: P158815

Luminaire Tested: **VTS-F08-LED-E1-SLL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158815  
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-F08-LED-E1-SLL  
Description: VENTUS LED SITE LUMINAIRE  
(8) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (56) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

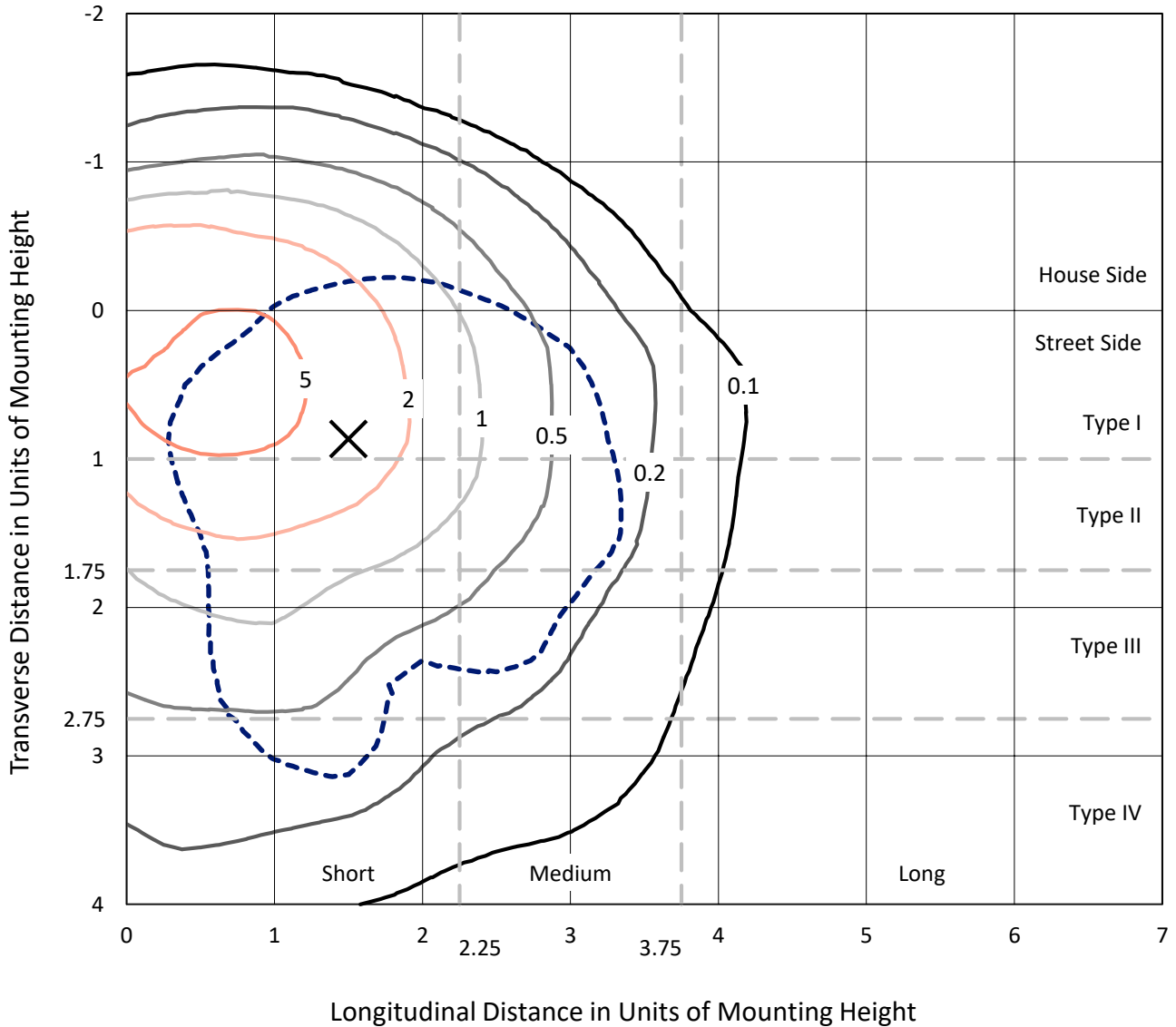
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17747.3 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 204.4  
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

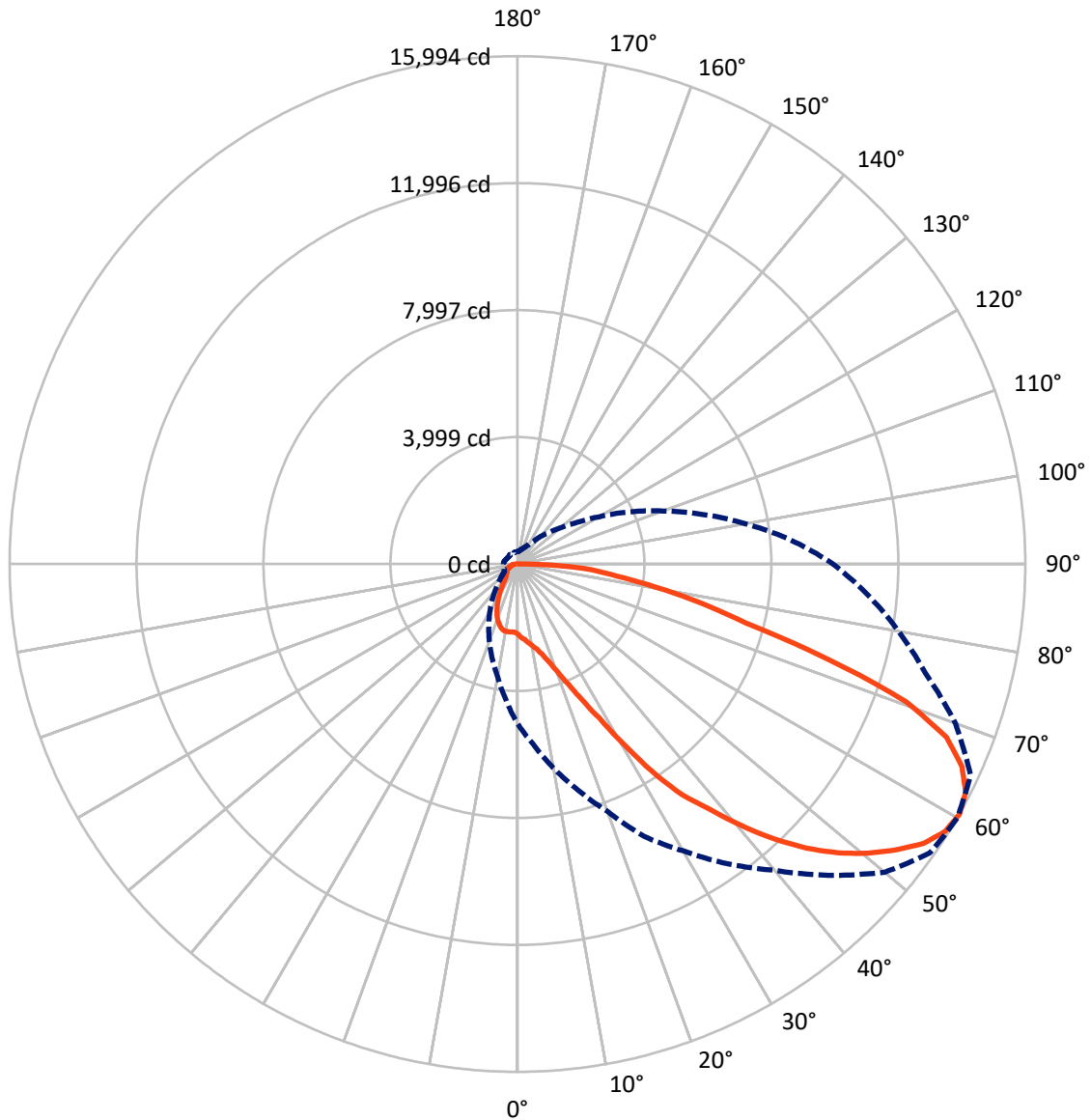
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3996.1	0.0	3996.1
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	13751.2	0.0	13751.2
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	17747.3	0.0	17747.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.8	1.2
10°-20°	703.1	4.0
20°-30°	1334.1	7.5
30°-40°	2101.0	11.8
40°-50°	2932.5	16.5
50°-60°	3626.8	20.4
60°-70°	3759.4	21.2
70°-80°	2365.5	13.3
80°-90°	707.1	4.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	17747.3	100.0
0°-180°	17747.3	100.0



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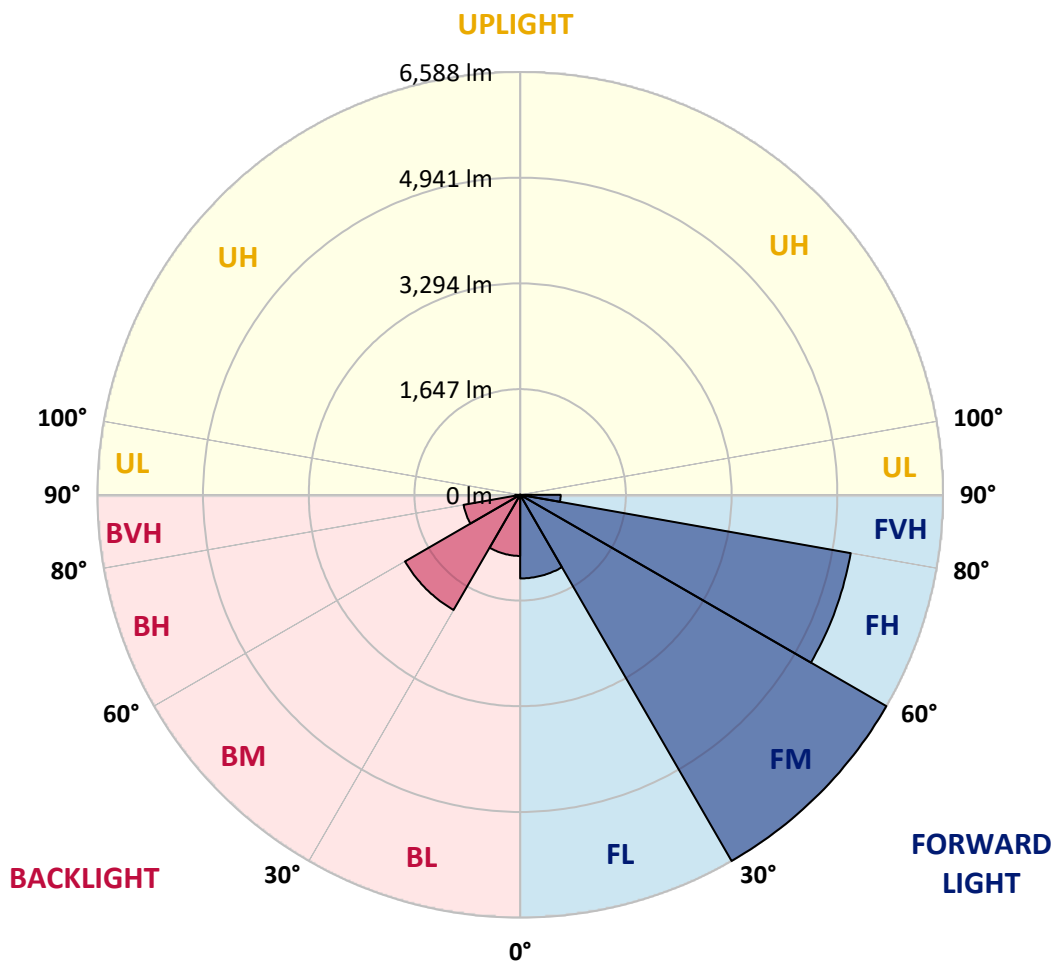
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1302.9	7.3			
FM	(30°-60°)	6588.1	37.1			
FH	(60°-80°)	5230.0	29.5			G3/7500
FVH	(80°-90°)	630.2	3.6			G4/750
BL	(0°-30°)	952.0	5.4	B2/1000		
BM	(30°-60°)	2072.2	11.7	B2/2500		
BH	(60°-80°)	895.0	5.0	B2/1000		G2/1000
BVH	(80°-90°)	76.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1
2.5°	2337.9	2335.2	2335.2	2335.2	2333.9	2331.3	2335.2	2333.9	2327.3	2323.4	2327.3
5°	2368.3	2369.6	2373.5	2374.9	2374.9	2378.8	2389.4	2390.7	2389.4	2392.0	2398.6
7.5°	2397.3	2403.9	2407.9	2414.5	2422.4	2429.0	2447.5	2466.0	2477.9	2487.1	2489.8
10°	2444.9	2455.4	2467.3	2484.5	2503.0	2536.0	2551.9	2570.4	2582.2	2600.7	2604.7
12.5°	2566.4	2579.6	2587.5	2613.9	2637.7	2669.4	2691.9	2697.2	2724.9	2740.7	2759.2
15°	2771.1	2790.9	2818.7	2834.5	2860.9	2888.7	2908.5	2934.9	2938.9	2960.0	2974.5
17.5°	3022.1	3049.8	3106.6	3144.9	3179.3	3207.0	3246.6	3277.0	3283.6	3307.4	3277.0
20°	3373.4	3440.8	3450.0	3526.6	3557.0	3612.5	3691.7	3706.3	3744.6	3706.3	3683.8
22.5°	3848.9	3954.6	3983.7	4057.6	4094.6	4179.1	4202.9	4280.8	4307.3	4278.2	4217.4
25°	4395.8	4559.5	4644.1	4757.7	4776.2	4949.2	4967.7	5058.8	5009.9	4939.9	4941.3
27.5°	4798.6	5077.3	5295.2	5489.4	5625.5	5820.9	5972.8	6015.1	5968.9	5877.7	5846.0
30°	5028.4	5344.1	5657.2	5925.3	6242.3	6540.8	6851.2	7005.7	7032.2	7079.7	6888.2
32.5°	5176.4	5581.9	5954.3	6285.9	6610.8	6995.2	7411.2	7808.8	8143.0	8395.3	8276.4
35°	5300.5	5801.1	6278.0	6679.5	7063.9	7482.6	7902.6	8371.5	8924.9	9248.5	9315.9
37.5°	5350.7	5962.3	6546.1	7061.2	7601.4	8073.0	8490.4	8907.7	9488.9	10066.1	10244.4
40°	5341.5	6041.5	6705.9	7353.1	8014.9	8604.0	9092.7	9586.7	10266.9	10941.8	11232.4
42.5°	5279.4	6053.4	6807.6	7547.3	8301.5	9084.7	9709.5	10278.8	10931.3	11796.4	12207.2
45°	5201.5	6012.5	6828.7	7646.3	8514.1	9420.2	10210.1	10914.1	11678.9	12533.4	13030.1
47.5°	5095.8	5947.7	6802.3	7680.7	8609.2	9635.5	10564.1	11410.7	12252.1	13236.1	13866.2
50°	4980.9	5855.3	6748.2	7655.6	8633.0	9753.1	10766.2	11730.4	12713.1	13775.0	14571.5
52.5°	4900.3	5756.2	6699.3	7604.1	8609.2	9788.7	10840.1	11902.1	12995.7	14093.4	15044.4
55°	4801.3	5624.1	6568.5	7483.9	8522.1	9768.9	10832.2	11961.5	13073.7	14216.2	15301.9
57.5°	4807.9	5563.4	6457.6	7339.9	8343.7	9585.3	10683.0	11902.1	12950.8	14136.9	15311.2
60°	5016.5	5694.1	6515.7	7369.0	8290.9	9469.1	10429.4	11519.0	12590.2	13863.5	15097.2
62.5°	5447.1	6067.9	6814.2	7659.6	8588.1	9701.6	10314.4	10882.4	11833.4	13360.3	14732.6
65°	5961.0	6521.0	7168.2	7972.6	9013.4	10079.3	10249.7	10364.6	10845.4	12381.6	14048.5
67.5°	6474.8	6975.4	7483.9	8150.9	9255.1	10187.6	9985.5	9712.1	9971.0	11244.3	12703.8
70°	6659.7	7324.1	7658.2	8116.6	9071.5	9935.4	9558.9	8870.8	8960.6	10117.6	11184.9
72.5°	6382.3	7329.3	7440.3	7610.7	8253.9	9066.2	8668.7	7783.7	7765.2	8648.9	9511.4
75°	5353.4	6686.1	6684.8	6621.4	6766.7	7229.0	7022.9	6489.3	6715.1	7411.2	7695.2
77.5°	3815.9	5217.3	5283.4	4856.7	4846.2	5054.9	5179.0	5799.8	6618.7	7009.7	6919.9
80°	2397.3	3520.0	3804.0	3277.0	3164.7	3460.6	4228.0	5131.5	6139.3	6490.6	6188.1
82.5°	1443.7	2267.9	2872.8	2574.3	2547.9	3086.8	3934.8	4286.1	4588.6	4962.4	4456.5
85°	980.1	1511.0	1965.4	2024.8	2256.0	2813.4	3181.9	3026.0	3034.0	2936.2	2674.7
87.5°	187.6	412.1	673.6	821.6	911.4	1224.4	1331.4	1205.9	1273.3	931.2	1018.4
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°	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1
2.5°	2320.7	2320.7	2320.7	2314.1	2315.4	2306.2	2302.2	2302.2	2298.3	2298.3	2296.9
5°	2393.4	2385.4	2389.4	2388.1	2388.1	2374.9	2368.3	2368.3	2351.1	2352.4	2347.1
7.5°	2501.7	2500.3	2504.3	2496.4	2485.8	2475.3	2464.7	2459.4	2435.6	2421.1	2411.9
10°	2624.5	2623.2	2627.2	2625.8	2607.3	2587.5	2558.5	2537.3	2508.3	2485.8	2463.4
12.5°	2759.2	2757.9	2755.3	2743.4	2723.6	2691.9	2654.9	2619.2	2575.6	2546.6	2513.6
15°	2969.2	2965.3	2949.4	2932.3	2911.1	2862.3	2797.5	2746.0	2687.9	2637.7	2583.6
17.5°	3279.6	3246.6	3244.0	3205.7	3148.9	3084.2	3023.4	2937.5	2854.3	2779.0	2705.1
20°	3707.6	3631.0	3609.9	3566.3	3491.0	3423.6	3291.5	3176.6	3063.0	2960.0	2866.2
22.5°	4173.9	4118.4	4066.9	3995.5	3892.5	3794.8	3627.0	3483.1	3337.8	3205.7	3101.3
25°	4825.0	4728.6	4636.1	4522.6	4379.9	4263.7	4072.1	3926.9	3736.7	3616.5	3465.9
27.5°	5666.4	5501.3	5345.4	5247.7	4996.7	4827.7	4583.3	4395.8	4165.9	4003.5	3825.2
30°	6761.4	6569.9	6338.7	6000.6	5702.1	5366.6	5064.1	4823.7	4579.4	4352.2	4146.1
32.5°	8119.2	7781.1	7415.2	6878.9	6388.9	5910.8	5507.9	5212.0	4962.4	4679.7	4389.2
35°	9267.0	8918.3	8399.2	7717.7	7112.7	6565.9	6083.8	5679.6	5353.4	4995.4	4611.1
37.5°	10173.1	9775.5	9288.1	8564.3	7925.0	7302.9	6797.0	6281.9	5854.0	5361.3	4875.2
40°	11211.3	10812.4	10276.1	9525.9	8769.1	8094.1	7501.0	6968.8	6443.1	5842.1	5217.3
42.5°	12116.1	11828.1	11285.3	10509.9	9671.2	8919.6	8271.1	7662.2	6975.4	6303.0	5563.4
45°	13059.1	12765.9	12250.8	11439.8	10548.2	9710.8	8935.5	8280.3	7469.3	6668.9	5822.3
47.5°	13892.6	13591.4	13071.0	12265.3	11318.3	10436.0	9582.7	8790.2	7848.4	6929.1	5991.3
50°	14687.7	14319.2	13842.4	13039.3	12027.6	11084.5	10158.6	9141.5	8143.0	7111.4	6106.2
52.5°	15418.2	14949.3	14497.5	13670.7	12577.0	11591.7	10558.8	9440.0	8323.9	7255.4	6184.2
55°	15832.9	15530.4	14990.2	14177.9	12968.0	11940.4	10812.4	9650.1	8503.6	7357.1	6217.2
57.5°	15961.0	15887.1	15434.0	14471.1	13197.8	12131.9	10984.1	9816.5	8623.8	7386.1	6171.0
60°	15859.3	15994.1	15745.7	14677.2	13302.2	12188.7	11068.6	9935.4	8644.9	7293.7	6031.0
62.5°	15533.1	15839.5	15807.8	14745.9	13248.0	12117.4	11059.4	9874.6	8446.8	7005.7	5716.6
65°	14996.8	15382.5	15518.5	14490.9	12942.9	11857.2	10824.3	9492.9	7896.0	6443.1	5189.6
67.5°	13987.7	14571.5	14703.6	13656.2	12145.1	11137.3	10146.7	8700.4	6876.3	5572.6	4366.7
70°	11965.5	12986.5	13164.8	12065.9	10738.4	9853.5	9013.4	7444.3	5725.8	4469.7	3351.0
72.5°	9552.3	10194.2	10558.8	9802.0	8814.0	8172.0	7535.4	5711.3	4320.5	3298.1	2306.2
75°	7468.0	7429.7	7756.0	7252.7	6671.6	6371.7	5893.6	3985.0	2894.0	2184.7	1459.5
77.5°	6384.9	5893.6	5522.4	5168.4	4823.7	4728.6	4270.3	2472.6	1788.4	1309.0	873.1
80°	5307.1	4410.3	3732.7	3234.7	3111.9	3299.5	2794.9	1458.2	1059.3	751.6	548.1
82.5°	3792.1	3172.7	2582.2	2266.6	2056.5	2355.1	1648.4	809.7	574.6	450.4	363.2
85°	2458.1	2349.8	2324.7	2221.7	1966.7	1857.1	1252.2	697.4	430.6	280.0	225.9
87.5°	945.7	1212.5	1398.8	1499.2	1620.7	1443.7	652.5	240.4	236.4	145.3	109.6
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°	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1
2.5°	2287.7	2282.4	2281.1	2277.1	2274.5	2274.5	2267.9	2147.7	2146.4	2146.4	2145.0
5°	2336.6	2330.0	2323.4	2322.0	2316.8	2316.8	2310.1	2190.0	2190.0	2190.0	2187.3
7.5°	2402.6	2389.4	2381.5	2377.5	2369.6	2373.5	2378.8	2257.3	2258.6	2257.3	2260.0
10°	2450.2	2442.2	2433.0	2430.3	2425.1	2429.0	2436.9	2316.8	2320.7	2322.0	2324.7
12.5°	2496.4	2483.2	2471.3	2467.3	2464.7	2475.3	2484.5	2368.3	2372.2	2376.2	2376.2
15°	2553.2	2530.7	2514.9	2505.6	2500.3	2510.9	2524.1	2409.2	2410.5	2414.5	2413.2
17.5°	2649.6	2616.6	2579.6	2573.0	2555.8	2559.8	2562.4	2434.3	2429.0	2419.8	2403.9
20°	2798.9	2748.7	2698.5	2677.3	2643.0	2628.5	2599.4	2435.6	2402.6	2374.9	2351.1
22.5°	3012.8	2938.9	2884.7	2849.1	2779.0	2730.2	2650.9	2429.0	2366.9	2319.4	2282.4
25°	3358.9	3270.4	3187.2	3097.4	2987.7	2890.0	2773.8	2487.1	2390.7	2308.8	2237.5
27.5°	3695.7	3555.7	3427.6	3292.9	3138.3	2991.7	2827.9	2505.6	2396.0	2290.3	2174.1
30°	3948.0	3744.6	3550.4	3353.6	3151.5	2961.3	2776.4	2442.2	2311.5	2192.6	2069.8
32.5°	4101.2	3837.0	3584.8	3340.4	3102.7	2888.7	2681.3	2332.6	2188.6	2048.6	1917.9
35°	4246.5	3918.9	3605.9	3317.9	3045.9	2808.1	2584.9	2204.5	2032.8	1883.5	1718.4
37.5°	4426.1	4004.8	3619.1	3277.0	2962.6	2690.6	2444.9	2043.3	1871.6	1688.0	1532.2
40°	4641.4	4093.3	3605.9	3195.1	2833.2	2536.0	2275.8	1874.3	1682.8	1504.4	1351.2
42.5°	4846.2	4171.2	3571.6	3085.5	2691.9	2374.9	2121.3	1723.7	1532.2	1349.9	1198.0
45°	4998.1	4237.3	3554.4	3008.9	2583.6	2265.2	1985.2	1602.2	1400.1	1216.5	1062.0
47.5°	5103.7	4276.9	3546.5	2966.6	2508.3	2151.6	1861.1	1480.7	1268.0	1083.1	932.5
50°	5159.2	4275.6	3526.6	2920.4	2397.3	2015.6	1732.9	1357.8	1146.5	965.5	828.2
52.5°	5173.7	4251.8	3484.4	2835.8	2262.6	1879.6	1595.6	1229.7	1039.5	866.5	727.8
55°	5140.7	4193.7	3395.9	2694.5	2118.6	1735.6	1470.1	1129.3	935.2	771.4	663.1
57.5°	5046.9	4090.6	3229.5	2500.3	1966.7	1602.2	1326.1	1007.8	821.6	684.2	594.4
60°	4872.6	3872.7	2969.2	2270.5	1773.9	1398.8	1128.0	849.3	701.4	598.3	525.7
62.5°	4550.3	3530.6	2603.4	1953.5	1496.5	1134.6	900.8	677.6	566.6	499.3	454.4
65°	4031.2	3015.5	2179.4	1538.8	1137.2	825.5	669.7	509.8	429.3	388.3	375.1
67.5°	3290.2	2328.6	1585.0	1068.6	770.0	578.5	466.3	372.5	334.2	318.3	313.0
70°	2392.0	1586.3	1026.3	674.9	508.5	404.2	352.7	299.8	278.7	274.7	274.7
72.5°	1501.8	964.2	628.7	462.3	385.7	327.6	301.2	264.2	256.2	253.6	249.6
75°	881.0	585.1	445.1	379.1	330.2	293.2	270.8	240.4	235.1	233.8	229.8
77.5°	561.4	421.3	359.3	323.6	298.5	265.5	245.7	214.0	212.7	211.3	210.0
80°	402.9	350.0	314.4	286.6	261.5	231.1	219.3	194.2	191.5	190.2	192.8
82.5°	305.1	289.3	274.7	253.6	219.3	196.8	187.6	170.4	171.7	165.1	163.8
85°	210.0	207.4	206.1	196.8	171.7	151.9	145.3	136.0	142.7	136.0	128.1
87.5°	103.0	101.7	93.8	111.0	103.0	81.9	74.0	81.9	91.1	88.5	81.9
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: P158815

CATALOG NUMBER: VTS-F08-LED-E1-SLL

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1
2.5°	2139.8	2134.5	2138.4	2135.8	2135.8	2134.5	2137.1	2133.2	2130.5	2133.2	2134.5
5°	2182.0	2175.4	2176.7	2167.5	2171.5	2162.2	2164.9	2158.3	2151.6	2149.0	2149.0
7.5°	2253.4	2246.7	2238.8	2237.5	2223.0	2217.7	2208.4	2203.2	2199.2	2190.0	2184.7
10°	2318.1	2307.5	2298.3	2296.9	2282.4	2269.2	2257.3	2246.7	2240.1	2226.9	2220.3
12.5°	2370.9	2360.3	2345.8	2337.9	2323.4	2307.5	2299.6	2283.7	2274.5	2260.0	2248.1
15°	2401.3	2382.8	2361.7	2347.1	2326.0	2308.8	2296.9	2285.1	2275.8	2257.3	2240.1
17.5°	2386.8	2356.4	2327.3	2300.9	2271.8	2256.0	2238.8	2224.3	2221.7	2200.5	2174.1
20°	2326.0	2290.3	2252.0	2216.4	2178.1	2155.6	2134.5	2112.0	2105.4	2080.3	2046.0
22.5°	2252.0	2211.1	2167.5	2123.9	2075.0	2043.3	2011.6	1983.9	1961.4	1924.5	1875.6
25°	2176.7	2116.0	2052.6	1997.1	1940.3	1900.7	1867.7	1837.3	1810.9	1751.4	1701.2
27.5°	2077.7	1982.6	1917.9	1854.5	1785.8	1734.3	1697.3	1655.0	1626.0	1557.3	1504.4
30°	1950.9	1855.8	1763.3	1699.9	1631.2	1575.8	1528.2	1467.5	1425.2	1375.0	1326.1
32.5°	1791.1	1696.0	1602.2	1530.9	1474.1	1405.4	1345.9	1287.8	1238.9	1190.1	1151.8
35°	1596.9	1504.4	1415.9	1344.6	1281.2	1227.1	1170.3	1120.1	1064.6	1011.8	989.3
37.5°	1392.2	1293.1	1195.4	1133.3	1083.1	1044.8	992.0	951.0	900.8	869.1	842.7
40°	1213.9	1108.2	1015.7	962.9	923.3	879.7	836.1	804.4	768.7	737.0	717.2
42.5°	1063.3	964.2	885.0	840.1	792.5	745.0	711.9	685.5	663.1	639.3	615.5
45°	924.6	829.5	763.4	708.0	668.3	630.0	607.6	595.7	582.5	568.0	552.1
47.5°	808.4	726.5	661.7	610.2	569.3	542.9	532.3	528.3	523.1	511.2	503.2
50°	719.9	652.5	586.5	540.2	505.9	492.7	480.8	476.8	470.2	466.3	461.0
52.5°	645.9	574.6	519.1	476.8	455.7	450.4	445.1	439.8	438.5	435.9	433.2
55°	585.1	523.1	471.5	439.8	429.3	425.3	424.0	418.7	417.4	417.4	413.4
57.5°	531.0	478.1	431.9	412.1	405.5	401.5	398.9	396.3	396.3	398.9	397.6
60°	475.5	430.6	402.9	392.3	388.3	381.7	375.1	372.5	373.8	380.4	380.4
62.5°	421.3	388.3	371.2	367.2	363.2	357.9	350.0	347.4	350.0	357.9	361.9
65°	361.9	347.4	342.1	339.5	336.8	332.9	327.6	324.9	326.2	330.2	335.5
67.5°	307.8	306.4	306.4	307.8	306.4	305.1	302.5	298.5	297.2	297.2	299.8
70°	274.7	274.7	278.7	278.7	277.4	277.4	273.4	269.5	266.8	264.2	265.5
72.5°	249.6	249.6	251.0	252.3	251.0	251.0	245.7	243.0	236.4	235.1	232.5
75°	228.5	225.9	225.9	224.5	223.2	224.5	219.3	212.7	210.0	208.7	206.1
77.5°	207.4	202.1	199.4	196.8	198.1	196.8	192.8	188.9	184.9	183.6	182.3
80°	183.6	175.7	171.7	165.1	169.1	170.4	167.7	163.8	162.5	161.1	159.8
82.5°	151.9	144.0	138.7	134.7	132.1	134.7	138.7	147.9	145.3	144.0	141.3
85°	118.9	105.7	99.1	100.4	93.8	95.1	107.0	112.3	112.3	114.9	112.3
87.5°	67.4	64.7	48.9	44.9	47.6	56.8	63.4	70.0	70.0	66.0	74.0
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):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1
2.5°	2134.5	2137.1	2138.4	2143.7	2146.4	2147.7	2149.0	2151.6	2153.0	2151.6	2158.3
5°	2145.0	2145.0	2142.4	2146.4	2147.7	2147.7	2145.0	2147.7	2147.7	2147.7	2154.3
7.5°	2172.8	2164.9	2160.9	2155.6	2151.6	2146.4	2139.8	2139.8	2138.4	2139.8	2143.7
10°	2201.8	2190.0	2175.4	2162.2	2150.3	2141.1	2129.2	2125.2	2123.9	2122.6	2133.2
12.5°	2224.3	2203.2	2180.7	2158.3	2134.5	2118.6	2098.8	2086.9	2085.6	2085.6	2098.8
15°	2208.4	2174.1	2130.5	2090.9	2069.8	2047.3	2024.8	2010.3	2009.0	2011.6	2019.6
17.5°	2129.2	2073.7	2035.4	1997.1	1969.4	1950.9	1936.4	1933.7	1939.0	1933.7	1944.3
20°	1994.5	1935.0	1908.6	1878.2	1867.7	1854.5	1833.3	1814.8	1814.8	1791.1	1797.7
22.5°	1820.1	1787.1	1752.8	1729.0	1721.1	1698.6	1676.1	1651.0	1648.4	1619.3	1615.4
25°	1637.8	1604.8	1577.1	1571.8	1548.0	1517.6	1496.5	1467.5	1460.8	1431.8	1427.8
27.5°	1451.6	1425.2	1397.4	1381.6	1368.4	1335.4	1316.9	1282.5	1269.3	1237.6	1233.7
30°	1274.6	1256.1	1223.1	1209.9	1184.8	1146.5	1106.9	1085.7	1075.2	1042.1	1031.6
32.5°	1108.2	1079.1	1054.0	1038.2	1006.5	962.9	927.2	896.9	877.0	837.4	826.8
35°	949.7	920.6	908.7	867.8	840.1	811.0	762.1	743.6	708.0	677.6	667.0
37.5°	809.7	781.9	766.1	731.7	704.0	674.9	645.9	622.1	604.9	598.3	598.3
40°	689.5	674.9	655.1	630.0	611.5	590.4	574.6	566.6	565.3	568.0	574.6
42.5°	603.6	587.8	574.6	561.4	548.1	545.5	541.5	546.8	553.4	560.0	566.6
45°	538.9	525.7	517.8	512.5	511.2	515.1	523.1	531.0	542.9	550.8	556.1
47.5°	492.7	482.1	479.5	478.1	484.7	496.6	507.2	519.1	528.3	536.3	541.5
50°	453.0	443.8	442.5	441.2	450.4	461.0	470.2	486.1	492.7	498.0	501.9
52.5°	425.3	417.4	413.4	414.7	424.0	433.2	446.4	458.3	467.6	471.5	475.5
55°	402.9	400.2	391.0	394.9	404.2	416.1	429.3	442.5	451.7	458.3	464.9
57.5°	385.7	379.1	372.5	379.1	388.3	400.2	416.1	428.0	439.8	449.1	455.7
60°	367.2	361.9	356.6	363.2	372.5	384.4	396.3	412.1	426.6	435.9	442.5
62.5°	351.3	347.4	342.1	343.4	347.4	355.3	361.9	376.4	389.6	401.5	409.5
65°	328.9	327.6	319.6	321.0	323.6	331.5	336.8	350.0	363.2	373.8	380.4
67.5°	295.9	293.2	293.2	297.2	298.5	302.5	306.4	319.6	330.2	338.1	346.1
70°	262.8	261.5	261.5	264.2	262.8	266.8	272.1	284.0	297.2	305.1	313.0
72.5°	231.1	231.1	229.8	232.5	232.5	233.8	240.4	251.0	262.8	269.5	274.7
75°	203.4	202.1	202.1	202.1	203.4	203.4	210.0	219.3	231.1	235.1	243.0
77.5°	178.3	178.3	178.3	178.3	179.6	178.3	182.3	188.9	192.8	199.4	199.4
80°	157.2	155.9	157.2	158.5	158.5	157.2	157.2	158.5	159.8	159.8	159.8
82.5°	138.7	134.7	137.4	144.0	144.0	144.0	142.7	133.4	126.8	126.8	129.4
85°	111.0	111.0	112.3	121.5	122.8	117.6	122.8	109.6	96.4	92.5	95.1
87.5°	68.7	54.2	66.0	75.3	75.3	71.3	79.3	74.0	62.1	50.2	47.6
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: P158815  
 CATALOG NUMBER: VTS-F08-LED-E1-SLL

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	0°
2.5°	2163.5	2164.9	2172.8	2176.7	2176.7	2182.0	2184.7	2192.6	2191.3	2191.3	2193.9	2.5°
5°	2160.9	2164.9	2172.8	2178.1	2180.7	2187.3	2192.6	2201.8	2200.5	2203.2	2204.5	5°
7.5°	2151.6	2162.2	2170.1	2180.7	2190.0	2195.2	2201.8	2209.8	2207.1	2208.4	2207.1	7.5°
10°	2143.7	2154.3	2170.1	2184.7	2197.9	2205.8	2209.8	2219.0	2217.7	2220.3	2220.3	10°
12.5°	2112.0	2130.5	2150.3	2172.8	2192.6	2213.7	2226.9	2246.7	2256.0	2267.9	2281.1	12.5°
15°	2031.5	2052.6	2084.3	2109.4	2147.7	2176.7	2215.0	2253.4	2287.7	2320.7	2359.0	15°
17.5°	1952.2	1961.4	1986.5	2020.9	2055.2	2098.8	2145.0	2213.7	2275.8	2343.2	2417.1	17.5°
20°	1805.6	1821.4	1838.6	1879.6	1920.5	1982.6	2039.4	2129.2	2220.3	2326.0	2439.6	20°
22.5°	1624.6	1640.5	1659.0	1705.2	1755.4	1818.8	1887.5	1987.9	2109.4	2246.7	2398.6	22.5°
25°	1429.1	1438.4	1452.9	1499.2	1529.5	1612.7	1696.0	1800.3	1932.4	2109.4	2286.4	25°
27.5°	1213.9	1231.0	1242.9	1264.0	1334.0	1405.4	1492.5	1604.8	1764.6	1945.6	2159.6	27.5°
30°	1007.8	1022.3	1015.7	1060.6	1106.9	1182.2	1275.9	1400.1	1553.3	1768.6	2015.6	30°
32.5°	805.7	816.3	812.3	844.0	890.2	965.5	1054.0	1188.8	1351.2	1581.0	1849.2	32.5°
35°	664.4	667.0	681.6	696.1	735.7	796.5	871.8	989.3	1155.7	1367.1	1651.0	35°
37.5°	598.3	603.6	612.9	632.7	661.7	705.3	767.4	858.5	1001.2	1187.4	1441.0	37.5°
40°	578.5	582.5	587.8	601.0	628.7	667.0	722.5	799.1	903.5	1060.6	1266.7	40°
42.5°	569.3	569.3	569.3	577.2	598.3	639.3	702.7	778.0	869.1	988.0	1154.4	42.5°
45°	556.1	556.1	554.8	558.7	573.2	614.2	682.9	767.4	865.2	978.7	1122.7	45°
47.5°	541.5	540.2	536.3	536.3	545.5	586.5	657.8	748.9	855.9	986.7	1141.2	47.5°
50°	501.9	501.9	501.9	505.9	513.8	550.8	627.4	723.8	846.7	992.0	1170.3	50°
52.5°	479.5	480.8	484.7	484.7	492.7	531.0	611.5	718.5	851.9	1011.8	1207.2	52.5°
55°	468.9	472.9	476.8	476.8	483.4	523.1	606.3	722.5	871.8	1052.7	1270.6	55°
57.5°	459.7	463.6	466.3	466.3	471.5	505.9	591.7	715.9	883.6	1092.3	1348.6	57.5°
60°	442.5	445.1	446.4	446.4	447.8	476.8	558.7	684.2	857.2	1089.7	1390.8	60°
62.5°	410.8	416.1	417.4	418.7	418.7	446.4	516.4	632.7	800.4	1050.1	1379.0	62.5°
65°	387.0	389.6	393.6	396.3	401.5	420.0	475.5	570.6	726.5	970.8	1312.9	65°
67.5°	350.0	354.0	357.9	363.2	368.5	380.4	424.0	500.6	626.1	836.1	1165.0	67.5°
70°	317.0	318.3	322.3	328.9	330.2	336.8	368.5	421.3	512.5	671.0	937.8	70°
72.5°	276.1	278.7	284.0	291.9	291.9	297.2	315.7	343.4	401.5	512.5	692.1	72.5°
75°	240.4	243.0	247.0	247.0	240.4	241.7	254.9	274.7	318.3	385.7	504.6	75°
77.5°	199.4	204.7	208.7	200.8	198.1	202.1	208.7	223.2	254.9	306.4	379.1	77.5°
80°	165.1	167.7	169.1	170.4	167.7	171.7	177.0	186.2	207.4	247.0	299.8	80°
82.5°	132.1	134.7	138.7	144.0	144.0	158.5	159.8	159.8	171.7	196.8	235.1	82.5°
85°	97.7	103.0	108.3	114.9	116.2	124.2	120.2	118.9	122.8	146.6	162.5	85°
87.5°	50.2	54.2	56.8	62.1	55.5	58.1	58.1	54.2	47.6	59.4	66.0	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: P158815

NUMBER: VTS-F08-LED-E1-SLL

**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
2207.1	2207.1	2207.1	2207.1	2207.1	2207.1	2207.1
2196.6	2193.9	2196.6	2196.6	2200.5	2197.9	2337.9
2207.1	2204.5	2207.1	2209.8	2213.7	2213.7	2368.3
2208.4	2208.4	2205.8	2212.4	2217.7	2223.0	2397.3
2224.3	2224.3	2226.9	2228.3	2240.1	2253.4	2444.9
2289.0	2295.6	2307.5	2311.5	2332.6	2347.1	2566.4
2388.1	2425.1	2448.8	2456.8	2475.3	2503.0	2771.1
2488.5	2550.5	2615.3	2654.9	2678.7	2711.7	3022.1
2563.8	2680.0	2790.9	2890.0	2946.8	3011.5	3373.4
2570.4	2755.3	2942.8	3126.4	3278.3	3398.5	3848.9
2507.0	2750.0	3008.9	3290.2	3551.7	3768.4	4395.8
2426.4	2724.9	3055.1	3414.4	3757.8	4077.4	4798.6
2324.7	2682.6	3063.0	3467.2	3870.1	4254.4	5028.4
2170.1	2557.1	2967.9	3414.4	3881.9	4349.5	5176.4
1972.0	2366.9	2788.3	3296.8	3826.5	4387.8	5300.5
1769.9	2159.6	2612.6	3139.6	3738.0	4381.2	5350.7
1555.9	1943.0	2406.6	2971.9	3617.8	4320.5	5341.5
1410.7	1763.3	2217.7	2801.5	3484.4	4239.9	5279.4
1326.1	1635.2	2068.4	2645.6	3362.9	4143.5	5201.5
1324.8	1596.9	1989.2	2534.7	3240.0	4036.5	5095.8
1371.0	1620.7	1979.9	2487.1	3172.7	3958.6	4980.9
1425.2	1686.7	2028.8	2504.3	3171.3	3924.2	4900.3
1511.0	1799.0	2135.8	2578.3	3205.7	3918.9	4801.3
1620.7	1950.9	2328.6	2760.6	3339.1	4023.3	4807.9
1732.9	2129.2	2580.9	3072.3	3601.9	4266.3	5016.5
1773.9	2266.6	2837.2	3438.1	3995.5	4630.9	5447.1
1738.2	2298.3	2993.0	3722.1	4378.6	5057.5	5961.0
1606.1	2170.1	2929.6	3802.7	4599.2	5360.0	6474.8
1322.2	1851.8	2641.7	3621.7	4582.0	5422.0	6659.7
969.5	1435.8	2147.7	3077.6	4073.5	5033.7	6382.3
700.0	1015.7	1550.7	2318.1	3220.2	4053.7	5353.4
501.9	704.0	1006.5	1522.9	2193.9	2822.6	3815.9
360.6	478.1	627.4	914.0	1336.7	1732.9	2397.3
265.5	327.6	412.1	568.0	787.2	1009.1	1443.7
181.0	192.8	248.3	335.5	516.4	742.3	980.1
68.7	77.9	91.1	137.4	231.1	265.5	187.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)