

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: P158835

Luminaire Tested: **VTS-F10-LED-E1-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158835
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-F10-LED-E1-SLL
Description: VENTUS LED SITE LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (70) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

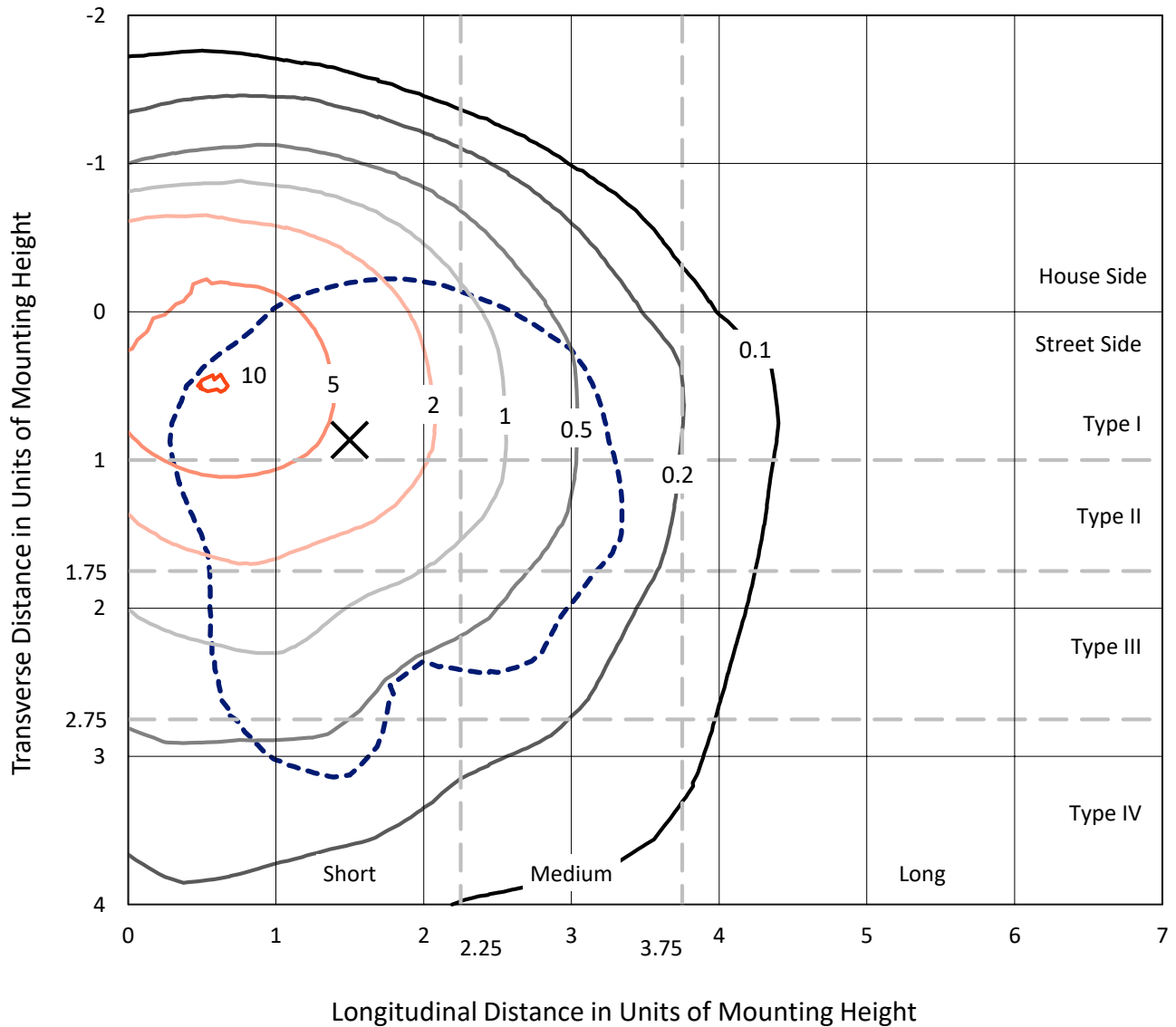
Lumens per Lamp: N/A
Luminaire Lumens: 22184.2 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 258.7
Input Voltage (V): NR
Input Current (A_{in}): 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

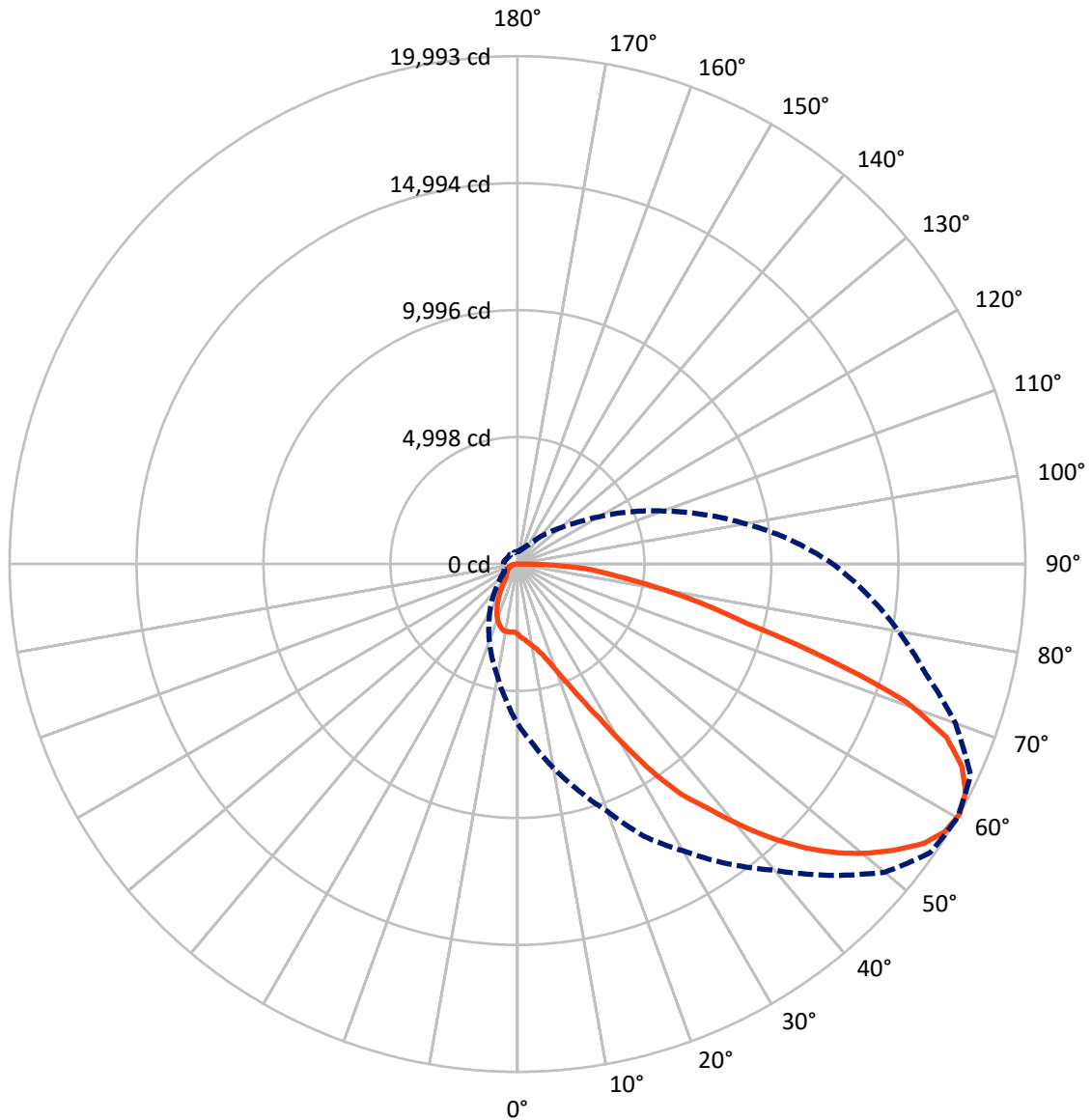
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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
House Side	Lumens	4995.2	0.0	4995.2
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	17189.0	0.0	17189.0
	% Fixture	77.5	0.0	77.5
Total	Lumens	22184.2	0.0	22184.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.2	1.2
10°-20°	878.8	4.0
20°-30°	1667.7	7.5
30°-40°	2626.3	11.8
40°-50°	3665.6	16.5
50°-60°	4533.5	20.4
60°-70°	4699.2	21.2
70°-80°	2956.9	13.3
80°-90°	883.9	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°	22184.2	100.0
0°-180°	22184.2	100.0



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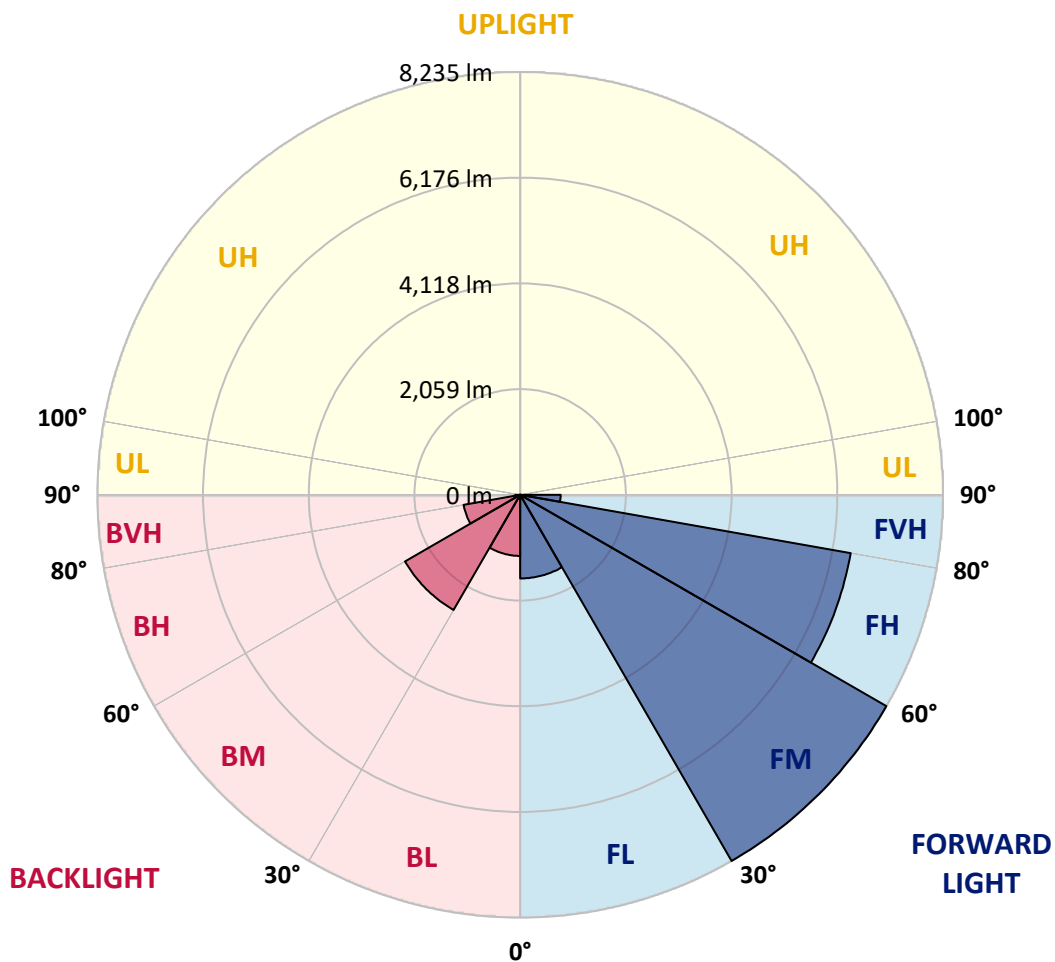
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1628.6	7.3			
FM (30°-60°)	8235.1	37.1			
FH (60°-80°)	6537.5	29.5			G3/7500
FVH (80°-90°)	787.7	3.6			G5
BL (0°-30°)	1190.0	5.4	B3/2500		
BM (30°-60°)	2590.3	11.7	B3/5000		
BH (60°-80°)	1118.7	5.0	B3/2500		G3/2500
BVH (80°-90°)	96.2	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°	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9
2.5°	2922.4	2919.1	2919.1	2919.1	2917.4	2914.1	2919.1	2917.4	2909.1	2904.2	2909.1
5°	2960.3	2962.0	2966.9	2968.6	2968.6	2973.5	2986.7	2988.4	2986.7	2990.1	2998.3
7.5°	2996.7	3004.9	3009.9	3018.1	3028.0	3036.3	3059.4	3082.5	3097.4	3108.9	3112.2
10°	3056.1	3069.3	3084.2	3105.6	3128.7	3170.0	3189.8	3212.9	3227.8	3250.9	3255.9
12.5°	3208.0	3224.5	3234.4	3267.4	3297.1	3336.8	3364.8	3371.4	3406.1	3425.9	3449.0
15°	3463.9	3488.7	3523.3	3543.2	3576.2	3610.8	3635.6	3668.6	3673.6	3700.0	3718.2
17.5°	3777.6	3812.3	3883.3	3931.1	3974.1	4008.7	4058.3	4096.3	4104.5	4134.2	4096.3
20°	4216.8	4301.0	4312.5	4408.3	4446.3	4515.6	4614.7	4632.8	4680.7	4632.8	4604.8
22.5°	4811.2	4943.2	4979.6	5072.0	5118.3	5223.9	5253.6	5351.1	5384.1	5347.8	5271.8
25°	5494.7	5699.4	5805.1	5947.1	5970.2	6186.5	6209.6	6323.5	6262.4	6174.9	6176.6
27.5°	5998.3	6346.6	6619.1	6861.8	7031.8	7276.2	7466.0	7518.9	7461.1	7347.2	7307.5
30°	6285.5	6680.1	7071.4	7406.6	7802.9	8176.0	8564.0	8757.2	8790.2	8849.6	8610.2
32.5°	6470.5	6977.3	7442.9	7857.3	8263.5	8744.0	9264.0	9761.0	10178.7	10494.1	10345.5
35°	6625.7	7251.4	7847.4	8349.4	8829.8	9353.2	9878.2	10464.4	11156.1	11560.7	11644.9
37.5°	6688.4	7452.8	8182.6	8826.5	9501.8	10091.2	10612.9	11134.7	11861.1	12582.7	12805.5
40°	6676.8	7551.9	8382.4	9191.4	10018.6	10754.9	11365.8	11983.3	12833.6	13677.3	14040.5
42.5°	6599.2	7566.8	8509.5	9434.1	10376.8	11355.9	12136.9	12848.5	13664.1	14745.5	15259.0
45°	6501.8	7515.6	8535.9	9557.9	10642.7	11775.3	12762.6	13642.6	14598.6	15666.8	16287.6
47.5°	6369.8	7434.7	8502.9	9600.9	10761.5	12044.4	13205.1	14263.4	15315.1	16545.2	17332.7
50°	6226.1	7319.1	8435.2	9569.5	10791.3	12191.4	13457.7	14663.0	15891.4	17218.8	18214.4
52.5°	6125.4	7195.3	8374.1	9505.1	10761.5	12235.9	13550.2	14877.6	16244.7	17616.7	18805.5
55°	6001.6	7030.2	8210.7	9354.8	10652.6	12211.2	13540.3	14951.9	16342.1	17770.2	19127.4
57.5°	6009.8	6954.2	8072.0	9174.9	10429.7	11981.7	13353.7	14877.6	16188.5	17671.2	19139.0
60°	6270.7	7117.7	8144.6	9211.2	10363.6	11836.4	13036.7	14398.8	15737.8	17329.4	18871.5
62.5°	6808.9	7584.9	8517.8	9574.4	10735.1	12127.0	12893.0	13603.0	14791.8	16700.4	18415.8
65°	7451.2	8151.2	8960.2	9965.7	11266.8	12599.2	12812.1	12955.8	13556.8	15476.9	17560.6
67.5°	8093.4	8719.2	9354.8	10188.6	11568.9	12734.5	12481.9	12140.2	12463.8	14055.4	15879.8
70°	8324.6	9155.1	9572.8	10145.7	11339.4	12419.2	11948.6	11088.5	11200.7	12647.0	13981.1
72.5°	7977.9	9161.7	9300.4	9513.3	10317.4	11332.8	10835.8	9729.6	9706.5	10811.1	11889.2
75°	6691.7	8357.6	8356.0	8276.7	8458.3	9036.2	8778.6	8111.6	8393.9	9264.0	9619.0
77.5°	4769.9	6521.6	6604.2	6070.9	6057.7	6318.6	6473.8	7249.8	8273.4	8762.1	8649.9
80°	2996.7	4400.0	4755.0	4096.3	3955.9	4325.8	5285.0	6414.3	7674.1	8113.3	7735.2
82.5°	1804.6	2834.9	3591.0	3217.9	3184.9	3858.5	4918.5	5357.7	5735.7	6203.0	5570.6
85°	1225.1	1888.8	2456.8	2531.1	2820.0	3516.7	3977.4	3782.6	3792.5	3670.3	3343.4
87.5°	234.4	515.1	842.0	1027.0	1139.2	1530.5	1664.3	1507.4	1591.6	1164.0	1273.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9
2.5°	2900.9	2900.9	2900.9	2892.6	2894.3	2882.7	2877.8	2877.8	2872.8	2872.8	2871.2
5°	2991.7	2981.8	2986.7	2985.1	2985.1	2968.6	2960.3	2960.3	2938.9	2940.5	2933.9
7.5°	3127.1	3125.4	3130.4	3120.5	3107.3	3094.1	3080.9	3074.3	3044.5	3026.4	3014.8
10°	3280.6	3279.0	3283.9	3282.3	3259.2	3234.4	3198.1	3171.7	3135.3	3107.3	3079.2
12.5°	3449.0	3447.4	3444.1	3429.2	3404.5	3364.8	3318.6	3274.0	3219.5	3183.2	3141.9
15°	3711.6	3706.6	3686.8	3665.3	3638.9	3577.8	3496.9	3432.5	3359.9	3297.1	3229.5
17.5°	4099.6	4058.3	4055.0	4007.1	3936.1	3855.2	3779.3	3671.9	3567.9	3473.8	3381.4
20°	4634.5	4538.7	4512.3	4457.8	4363.7	4279.5	4114.4	3970.8	3828.8	3700.0	3582.8
22.5°	5217.3	5148.0	5083.6	4994.4	4865.6	4743.5	4533.8	4353.8	4172.2	4007.1	3876.7
25°	6031.3	5910.8	5795.2	5653.2	5474.9	5329.6	5090.2	4908.6	4670.8	4520.6	4332.4
27.5°	7083.0	6876.6	6681.8	6559.6	6245.9	6034.6	5729.1	5494.7	5207.4	5004.3	4781.4
30°	8451.7	8212.3	7923.4	7500.7	7127.6	6708.2	6330.1	6029.6	5724.2	5440.2	5182.6
32.5°	10149.0	9726.3	9269.0	8598.7	7986.1	7388.4	6884.9	6515.0	6203.0	5849.7	5486.4
35°	11583.8	11147.9	10499.0	9647.1	8890.9	8207.4	7604.7	7099.5	6691.7	6244.3	5763.8
37.5°	12716.4	12219.4	11610.2	10705.4	9906.3	9128.7	8496.3	7852.4	7317.5	6701.6	6094.0
40°	14014.1	13515.5	12845.2	11907.4	10961.3	10117.6	9376.3	8710.9	8053.8	7302.6	6521.6
42.5°	15145.1	14785.2	14106.6	13137.4	12089.0	11149.5	10338.9	9577.7	8719.2	7878.8	6954.2
45°	16323.9	15957.4	15313.5	14299.7	13185.3	12138.5	11169.4	10350.4	9336.7	8336.2	7277.8
47.5°	17365.7	16989.3	16338.8	15331.6	14147.8	13044.9	11978.4	10987.7	9810.5	8661.4	7489.2
50°	18359.7	17899.0	17303.0	16299.2	15034.5	13855.6	12698.2	11426.9	10178.7	8889.3	7632.8
52.5°	19272.7	18686.6	18121.9	17088.4	15721.3	14489.6	13198.5	11800.1	10404.9	9069.2	7730.2
55°	19791.1	19413.0	18737.8	17722.4	16210.0	14925.5	13515.5	12062.6	10629.5	9196.3	7771.5
57.5°	19951.3	19858.8	19292.5	18088.9	16497.3	15164.9	13730.1	12270.6	10779.7	9232.7	7713.7
60°	19824.2	19992.6	19682.2	18346.5	16627.7	15235.9	13835.8	12419.2	10806.1	9117.1	7538.7
62.5°	19416.3	19799.4	19759.8	18432.3	16560.0	15146.7	13824.2	12343.2	10558.5	8757.2	7145.7
65°	18746.0	19228.1	19398.2	18113.7	16178.6	14821.5	13530.4	11866.1	9870.0	8053.8	6487.0
67.5°	17484.6	18214.4	18379.5	17070.2	15181.4	13921.7	12683.4	10875.5	8595.4	6965.8	5458.4
70°	14956.9	16233.1	16456.0	15082.3	13423.0	12316.8	11266.8	9305.3	7157.3	5587.2	4188.7
72.5°	11940.4	12742.8	13198.5	12252.4	11017.5	10215.0	9419.2	7139.1	5400.6	4122.7	2882.7
75°	9335.0	9287.2	9695.0	9065.9	8339.5	7964.7	7367.0	4981.2	3617.5	2730.8	1824.4
77.5°	7981.2	7367.0	6903.0	6460.6	6029.6	5910.8	5337.8	3090.8	2235.5	1636.2	1091.3
80°	6633.9	5512.9	4665.9	4043.4	3889.9	4124.3	3493.6	1822.8	1324.1	939.4	685.2
82.5°	4740.2	3965.8	3227.8	2833.2	2570.7	2943.8	2060.5	1012.1	718.2	563.0	454.0
85°	3072.6	2937.2	2905.8	2777.1	2458.4	2321.4	1565.2	871.8	538.2	350.0	282.3
87.5°	1182.2	1515.7	1748.5	1873.9	2025.8	1804.6	815.6	300.5	295.5	181.6	137.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9
2.5°	2859.6	2853.0	2851.4	2846.4	2843.1	2843.1	2834.9	2684.6	2683.0	2683.0	2681.3
5°	2920.7	2912.5	2904.2	2902.5	2895.9	2895.9	2887.7	2737.4	2737.4	2737.4	2734.1
7.5°	3003.3	2986.7	2976.8	2971.9	2962.0	2966.9	2973.5	2821.6	2823.3	2821.6	2824.9
10°	3062.7	3052.8	3041.2	3037.9	3031.3	3036.3	3046.2	2895.9	2900.9	2902.5	2905.8
12.5°	3120.5	3104.0	3089.1	3084.2	3080.9	3094.1	3105.6	2960.3	2965.3	2970.2	2970.2
15°	3191.5	3163.4	3143.6	3132.0	3125.4	3138.6	3155.2	3011.5	3013.2	3018.1	3016.5
17.5°	3312.0	3270.7	3224.5	3216.2	3194.8	3199.7	3203.0	3042.9	3036.3	3024.7	3004.9
20°	3498.6	3435.8	3373.1	3346.7	3303.8	3285.6	3249.3	3044.5	3003.3	2968.6	2938.9
22.5°	3766.0	3673.6	3605.9	3561.3	3473.8	3412.7	3313.7	3036.3	2958.7	2899.2	2853.0
25°	4198.6	4088.0	3984.0	3871.7	3734.7	3612.5	3467.2	3108.9	2988.4	2886.0	2796.9
27.5°	4619.6	4444.6	4284.5	4116.1	3922.9	3739.6	3534.9	3132.0	2995.0	2862.9	2717.6
30°	4935.0	4680.7	4438.0	4192.0	3939.4	3701.7	3470.5	3052.8	2889.3	2740.7	2587.2
32.5°	5126.5	4796.3	4480.9	4175.5	3878.3	3610.8	3351.6	2915.8	2735.8	2560.8	2397.3
35°	5308.1	4898.7	4507.4	4147.4	3807.3	3510.1	3231.1	2755.6	2541.0	2354.4	2148.0
37.5°	5532.7	5006.0	4523.9	4096.3	3703.3	3363.2	3056.1	2554.2	2339.5	2110.0	1915.2
40°	5801.8	5116.6	4507.4	3993.9	3541.5	3170.0	2844.8	2342.8	2103.4	1880.5	1689.0
42.5°	6057.7	5214.0	4464.4	3856.9	3364.8	2968.6	2651.6	2154.6	1915.2	1687.4	1497.5
45°	6247.6	5296.6	4443.0	3761.1	3229.5	2831.6	2481.5	2002.7	1750.1	1520.6	1327.4
47.5°	6379.7	5346.1	4433.1	3708.3	3135.3	2689.6	2326.3	1850.8	1585.0	1353.9	1165.6
50°	6449.0	5344.4	4408.3	3650.5	2996.7	2519.5	2166.2	1697.3	1433.1	1206.9	1035.2
52.5°	6467.2	5314.7	4355.5	3544.8	2828.2	2349.4	1994.5	1537.1	1299.4	1083.1	909.7
55°	6425.9	5242.1	4244.8	3368.1	2648.3	2169.5	1837.6	1411.6	1168.9	964.2	828.8
57.5°	6308.7	5113.3	4036.8	3125.4	2458.4	2002.7	1657.7	1259.8	1027.0	855.2	743.0
60°	6090.7	4840.9	3711.6	2838.2	2217.4	1748.5	1410.0	1061.6	876.7	747.9	657.1
62.5°	5687.9	4413.3	3254.2	2441.9	1870.6	1418.3	1126.0	847.0	708.3	624.1	568.0
65°	5039.0	3769.3	2724.2	1923.5	1421.6	1031.9	837.1	637.3	536.6	485.4	468.9
67.5°	4112.8	2910.8	1981.3	1335.7	962.6	723.2	582.8	465.6	417.7	397.9	391.3
70°	2990.1	1982.9	1282.9	843.7	635.7	505.2	440.8	374.8	348.4	343.4	343.4
72.5°	1877.2	1205.3	785.9	577.9	482.1	409.5	376.4	330.2	320.3	317.0	312.0
75°	1101.3	731.4	556.4	473.9	412.8	366.5	338.5	300.5	293.9	292.2	287.3
77.5°	701.7	526.7	449.1	404.5	373.1	331.9	307.1	267.5	265.8	264.2	262.5
80°	503.6	437.5	392.9	358.3	326.9	288.9	274.1	242.7	239.4	237.8	241.1
82.5°	381.4	361.6	343.4	317.0	274.1	246.0	234.4	213.0	214.6	206.4	204.7
85°	262.5	259.2	257.6	246.0	214.6	189.9	181.6	170.1	178.3	170.1	160.2
87.5°	128.8	127.1	117.2	138.7	128.8	102.4	92.5	102.4	113.9	110.6	102.4
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: P158835

CATALOG NUMBER: VTS-F10-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9
2.5°	2674.7	2668.1	2673.0	2669.7	2669.7	2668.1	2671.4	2666.4	2663.1	2666.4	2668.1
5°	2727.5	2719.3	2720.9	2709.4	2714.3	2702.8	2706.1	2697.8	2689.6	2686.3	2686.3
7.5°	2816.7	2808.4	2798.5	2796.9	2778.7	2772.1	2760.6	2754.0	2749.0	2737.4	2730.8
10°	2897.6	2884.4	2872.8	2871.2	2853.0	2836.5	2821.6	2808.4	2800.2	2783.7	2775.4
12.5°	2963.6	2950.4	2932.3	2922.4	2904.2	2884.4	2874.5	2854.7	2843.1	2824.9	2810.1
15°	3001.6	2978.5	2952.1	2933.9	2907.5	2886.0	2871.2	2856.3	2844.8	2821.6	2800.2
17.5°	2983.4	2945.5	2909.1	2876.1	2839.8	2820.0	2798.5	2780.4	2777.1	2750.6	2717.6
20°	2907.5	2862.9	2815.0	2770.5	2722.6	2694.5	2668.1	2640.0	2631.8	2600.4	2557.5
22.5°	2815.0	2763.9	2709.4	2654.9	2593.8	2554.2	2514.5	2479.9	2451.8	2405.6	2344.5
25°	2720.9	2645.0	2565.7	2496.4	2425.4	2375.9	2334.6	2296.6	2263.6	2189.3	2126.6
27.5°	2597.1	2478.2	2397.3	2318.1	2232.2	2167.8	2121.6	2068.8	2032.4	1946.6	1880.5
30°	2438.6	2319.7	2204.2	2124.9	2039.0	1969.7	1910.3	1834.3	1781.5	1718.7	1657.7
32.5°	2238.8	2119.9	2002.7	1913.6	1842.6	1756.7	1682.4	1609.8	1548.7	1487.6	1439.7
35°	1996.1	1880.5	1769.9	1680.8	1601.5	1533.8	1462.8	1400.1	1330.7	1264.7	1236.6
37.5°	1740.2	1616.4	1494.2	1416.6	1353.9	1306.0	1239.9	1188.8	1126.0	1086.4	1053.4
40°	1517.3	1385.2	1269.7	1203.6	1154.1	1099.6	1045.1	1005.5	960.9	921.3	896.5
42.5°	1329.1	1205.3	1106.2	1050.1	990.6	931.2	889.9	856.9	828.8	799.1	769.4
45°	1155.7	1036.9	954.3	885.0	835.4	787.6	759.5	744.6	728.1	710.0	690.1
47.5°	1010.4	908.1	827.2	762.8	711.6	678.6	665.4	660.4	653.8	639.0	629.0
50°	899.8	815.6	733.1	675.3	632.4	615.8	601.0	596.0	587.8	582.8	576.2
52.5°	807.4	718.2	648.9	596.0	569.6	563.0	556.4	549.8	548.1	544.8	541.5
55°	731.4	653.8	589.4	549.8	536.6	531.6	530.0	523.4	521.7	521.7	516.8
57.5°	663.7	597.7	539.9	515.1	506.9	501.9	498.6	495.3	495.3	498.6	497.0
60°	594.4	538.2	503.6	490.4	485.4	477.2	468.9	465.6	467.2	475.5	475.5
62.5°	526.7	485.4	463.9	459.0	454.0	447.4	437.5	434.2	437.5	447.4	452.4
65°	452.4	434.2	427.6	424.3	421.0	416.1	409.5	406.2	407.8	412.8	419.4
67.5°	384.7	383.0	383.0	384.7	383.0	381.4	378.1	373.1	371.5	371.5	374.8
70°	343.4	343.4	348.4	348.4	346.7	346.7	341.8	336.8	333.5	330.2	331.9
72.5°	312.0	312.0	313.7	315.4	313.7	313.7	307.1	303.8	295.5	293.9	290.6
75°	285.6	282.3	282.3	280.7	279.0	280.7	274.1	265.8	262.5	260.9	257.6
77.5°	259.2	252.6	249.3	246.0	247.7	246.0	241.1	236.1	231.1	229.5	227.8
80°	229.5	219.6	214.6	206.4	211.3	213.0	209.7	204.7	203.1	201.4	199.8
82.5°	189.9	180.0	173.4	168.4	165.1	168.4	173.4	184.9	181.6	180.0	176.7
85°	148.6	132.1	123.8	125.5	117.2	118.9	133.7	140.3	140.3	143.6	140.3
87.5°	84.2	80.9	61.1	56.1	59.4	71.0	79.3	87.5	87.5	82.6	92.5
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-F10-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9
2.5°	2668.1	2671.4	2673.0	2679.7	2683.0	2684.6	2686.3	2689.6	2691.2	2689.6	2697.8
5°	2681.3	2681.3	2678.0	2683.0	2684.6	2684.6	2681.3	2684.6	2684.6	2684.6	2692.9
7.5°	2716.0	2706.1	2701.1	2694.5	2689.6	2683.0	2674.7	2674.7	2673.0	2674.7	2679.7
10°	2752.3	2737.4	2719.3	2702.8	2687.9	2676.4	2661.5	2656.5	2654.9	2653.2	2666.4
12.5°	2780.4	2754.0	2725.9	2697.8	2668.1	2648.3	2623.5	2608.7	2607.0	2607.0	2623.5
15°	2760.6	2717.6	2663.1	2613.6	2587.2	2559.1	2531.1	2512.9	2511.2	2514.5	2524.5
17.5°	2661.5	2592.1	2544.3	2496.4	2461.7	2438.6	2420.4	2417.1	2423.7	2417.1	2430.3
20°	2493.1	2418.8	2385.8	2347.8	2334.6	2318.1	2291.7	2268.5	2268.5	2238.8	2247.1
22.5°	2275.1	2233.9	2190.9	2161.2	2151.3	2123.3	2095.2	2063.8	2060.5	2024.2	2019.2
25°	2047.3	2006.0	1971.4	1964.7	1935.0	1897.1	1870.6	1834.3	1826.1	1789.7	1784.8
27.5°	1814.5	1781.5	1746.8	1727.0	1710.5	1669.2	1646.1	1603.2	1586.7	1547.0	1542.1
30°	1593.3	1570.1	1528.9	1512.4	1481.0	1433.1	1383.6	1357.2	1344.0	1302.7	1289.5
32.5°	1385.2	1348.9	1317.5	1297.7	1258.1	1203.6	1159.0	1121.1	1096.3	1046.8	1033.6
35°	1187.1	1150.8	1135.9	1084.7	1050.1	1013.7	952.7	929.5	885.0	847.0	833.8
37.5°	1012.1	977.4	957.6	914.7	880.0	843.7	807.4	777.6	756.2	747.9	747.9
40°	861.8	843.7	818.9	787.6	764.4	738.0	718.2	708.3	706.6	710.0	718.2
42.5°	754.5	734.7	718.2	701.7	685.2	681.9	676.9	683.5	691.8	700.0	708.3
45°	673.6	657.1	647.2	640.6	639.0	643.9	653.8	663.7	678.6	688.5	695.1
47.5°	615.8	602.6	599.3	597.7	605.9	620.8	634.0	648.9	660.4	670.3	676.9
50°	566.3	554.8	553.1	551.5	563.0	576.2	587.8	607.6	615.8	622.4	627.4
52.5°	531.6	521.7	516.8	518.4	530.0	541.5	558.1	572.9	584.5	589.4	594.4
55°	503.6	500.3	488.7	493.7	505.2	520.1	536.6	553.1	564.7	572.9	581.2
57.5°	482.1	473.9	465.6	473.9	485.4	500.3	520.1	534.9	549.8	561.4	569.6
60°	459.0	452.4	445.8	454.0	465.6	480.5	495.3	515.1	533.3	544.8	553.1
62.5°	439.2	434.2	427.6	429.3	434.2	444.1	452.4	470.5	487.1	501.9	511.8
65°	411.1	409.5	399.6	401.2	404.5	414.4	421.0	437.5	454.0	467.2	475.5
67.5°	369.8	366.5	366.5	371.5	373.1	378.1	383.0	399.6	412.8	422.7	432.6
70°	328.6	326.9	326.9	330.2	328.6	333.5	340.1	355.0	371.5	381.4	391.3
72.5°	288.9	288.9	287.3	290.6	290.6	292.2	300.5	313.7	328.6	336.8	343.4
75°	254.3	252.6	252.6	252.6	254.3	254.3	262.5	274.1	288.9	293.9	303.8
77.5°	222.9	222.9	222.9	222.9	224.5	222.9	227.8	236.1	241.1	249.3	249.3
80°	196.5	194.8	196.5	198.1	198.1	196.5	196.5	198.1	199.8	199.8	199.8
82.5°	173.4	168.4	171.7	180.0	180.0	180.0	178.3	166.8	158.5	158.5	161.8
85°	138.7	138.7	140.3	151.9	153.5	146.9	153.5	137.0	120.5	115.6	118.9
87.5°	85.9	67.7	82.6	94.1	94.1	89.2	99.1	92.5	77.6	62.7	59.4
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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 CATALOG NUMBER: VTS-F10-LED-E1-SLL

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	0°
2.5°	2704.4	2706.1	2716.0	2720.9	2720.9	2727.5	2730.8	2740.7	2739.1	2739.1	2742.4	2.5°
5°	2701.1	2706.1	2716.0	2722.6	2725.9	2734.1	2740.7	2752.3	2750.6	2754.0	2755.6	5°
7.5°	2689.6	2702.8	2712.7	2725.9	2737.4	2744.0	2752.3	2762.2	2758.9	2760.6	2758.9	7.5°
10°	2679.7	2692.9	2712.7	2730.8	2747.3	2757.3	2762.2	2773.8	2772.1	2775.4	2775.4	10°
12.5°	2640.0	2663.1	2687.9	2716.0	2740.7	2767.2	2783.7	2808.4	2820.0	2834.9	2851.4	12.5°
15°	2539.3	2565.7	2605.4	2636.7	2684.6	2720.9	2768.8	2816.7	2859.6	2900.9	2948.8	15°
17.5°	2440.3	2451.8	2483.2	2526.1	2569.0	2623.5	2681.3	2767.2	2844.8	2929.0	3021.4	17.5°
20°	2257.0	2276.8	2298.3	2349.4	2400.6	2478.2	2549.2	2661.5	2775.4	2907.5	3049.5	20°
22.5°	2030.8	2050.6	2073.7	2131.5	2194.2	2273.5	2359.4	2484.8	2636.7	2808.4	2998.3	22.5°
25°	1786.4	1798.0	1816.2	1873.9	1911.9	2015.9	2119.9	2250.4	2415.5	2636.7	2858.0	25°
27.5°	1517.3	1538.8	1553.6	1580.1	1667.6	1756.7	1865.7	2006.0	2205.8	2432.0	2699.5	27.5°
30°	1259.8	1277.9	1269.7	1325.8	1383.6	1477.7	1594.9	1750.1	1941.6	2210.8	2519.5	30°
32.5°	1007.1	1020.3	1015.4	1055.0	1112.8	1206.9	1317.5	1485.9	1689.0	1976.3	2311.5	32.5°
35°	830.5	833.8	851.9	870.1	919.6	995.6	1089.7	1236.6	1444.7	1708.8	2063.8	35°
37.5°	747.9	754.5	766.1	790.9	827.2	881.7	959.3	1073.2	1251.5	1484.3	1801.3	37.5°
40°	723.2	728.1	734.7	751.2	785.9	833.8	903.1	998.9	1129.3	1325.8	1583.4	40°
42.5°	711.6	711.6	711.6	721.5	747.9	799.1	878.4	972.5	1086.4	1235.0	1443.0	42.5°
45°	695.1	695.1	693.4	698.4	716.6	767.7	853.6	959.3	1081.4	1223.4	1403.4	45°
47.5°	676.9	675.3	670.3	670.3	681.9	733.1	822.2	936.1	1069.9	1233.3	1426.5	47.5°
50°	627.4	627.4	627.4	632.4	642.3	688.5	784.2	904.8	1058.3	1239.9	1462.8	50°
52.5°	599.3	601.0	605.9	605.9	615.8	663.7	764.4	898.2	1064.9	1264.7	1509.1	52.5°
55°	586.1	591.1	596.0	596.0	604.3	653.8	757.8	903.1	1089.7	1315.9	1588.3	55°
57.5°	574.6	579.5	582.8	582.8	589.4	632.4	739.7	894.9	1104.6	1365.4	1685.7	57.5°
60°	553.1	556.4	558.1	558.1	559.7	596.0	698.4	855.2	1071.5	1362.1	1738.6	60°
62.5°	513.5	520.1	521.7	523.4	523.4	558.1	645.6	790.9	1000.5	1312.6	1723.7	62.5°
65°	483.8	487.1	492.0	495.3	501.9	525.0	594.4	713.3	908.1	1213.5	1641.1	65°
67.5°	437.5	442.5	447.4	454.0	460.6	475.5	530.0	625.7	782.6	1045.1	1456.2	67.5°
70°	396.3	397.9	402.9	411.1	412.8	421.0	460.6	526.7	640.6	838.7	1172.2	70°
72.5°	345.1	348.4	355.0	364.9	364.9	371.5	394.6	429.3	501.9	640.6	865.2	72.5°
75°	300.5	303.8	308.7	308.7	300.5	302.1	318.7	343.4	397.9	482.1	630.7	75°
77.5°	249.3	255.9	260.9	251.0	247.7	252.6	260.9	279.0	318.7	383.0	473.9	77.5°
80°	206.4	209.7	211.3	213.0	209.7	214.6	221.2	232.8	259.2	308.7	374.8	80°
82.5°	165.1	168.4	173.4	180.0	180.0	198.1	199.8	199.8	214.6	246.0	293.9	82.5°
85°	122.2	128.8	135.4	143.6	145.3	155.2	150.2	148.6	153.5	183.3	203.1	85°
87.5°	62.7	67.7	71.0	77.6	69.3	72.6	72.6	67.7	59.4	74.3	82.6	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: P158835

NUMBER: VTS-F10-LED-E1-SLL

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9
2745.7	2742.4	2745.7	2745.7	2750.6	2747.3	2922.4
2758.9	2755.6	2758.9	2762.2	2767.2	2767.2	2960.3
2760.6	2760.6	2757.3	2765.5	2772.1	2778.7	2996.7
2780.4	2780.4	2783.7	2785.3	2800.2	2816.7	3056.1
2861.3	2869.5	2884.4	2889.3	2915.8	2933.9	3208.0
2985.1	3031.3	3061.0	3071.0	3094.1	3128.7	3463.9
3110.6	3188.2	3269.1	3318.6	3348.3	3389.6	3777.6
3204.7	3350.0	3488.7	3612.5	3683.5	3764.4	4216.8
3212.9	3444.1	3678.5	3908.0	4097.9	4248.2	4811.2
3133.7	3437.5	3761.1	4112.8	4439.7	4710.4	5494.7
3033.0	3406.1	3818.9	4268.0	4697.2	5096.8	5998.3
2905.8	3353.3	3828.8	4334.0	4837.6	5318.0	6285.5
2712.7	3196.4	3709.9	4268.0	4852.4	5436.9	6470.5
2465.0	2958.7	3485.4	4121.0	4783.1	5484.8	6625.7
2212.4	2699.5	3265.8	3924.5	4672.5	5476.5	6688.4
1944.9	2428.7	3008.2	3714.9	4522.2	5400.6	6676.8
1763.3	2204.2	2772.1	3501.9	4355.5	5299.9	6599.2
1657.7	2044.0	2585.5	3307.1	4203.6	5179.3	6501.8
1656.0	1996.1	2486.5	3168.4	4050.0	5045.6	6369.8
1713.8	2025.8	2474.9	3108.9	3965.8	4948.2	6226.1
1781.5	2108.4	2536.0	3130.4	3964.2	4905.3	6125.4
1888.8	2248.7	2669.7	3222.8	4007.1	4898.7	6001.6
2025.8	2438.6	2910.8	3450.7	4173.9	5029.1	6009.8
2166.2	2661.5	3226.2	3840.3	4502.4	5332.9	6270.7
2217.4	2833.2	3546.5	4297.7	4994.4	5788.6	6808.9
2172.8	2872.8	3741.3	4652.7	5473.2	6321.9	7451.2
2007.7	2712.7	3662.0	4753.4	5749.0	6700.0	8093.4
1652.7	2314.8	3302.1	4527.2	5727.5	6777.6	8324.6
1211.9	1794.7	2684.6	3846.9	5091.8	6292.2	7977.9
875.1	1269.7	1938.3	2897.6	4025.3	5067.1	6691.7
627.4	880.0	1258.1	1903.7	2742.4	3528.3	4769.9
450.7	597.7	784.2	1142.5	1670.9	2166.2	2996.7
331.9	409.5	515.1	710.0	984.0	1261.4	1804.6
226.2	241.1	310.4	419.4	645.6	927.9	1225.1
85.9	97.4	113.9	171.7	288.9	331.9	234.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)