

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: P158819

Luminaire Tested: **VTS-E09-LED-E1-SLL-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158819  
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-SLL-7030  
Description: VENTUS LED SITE LUMINAIRE  
(9) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (189) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

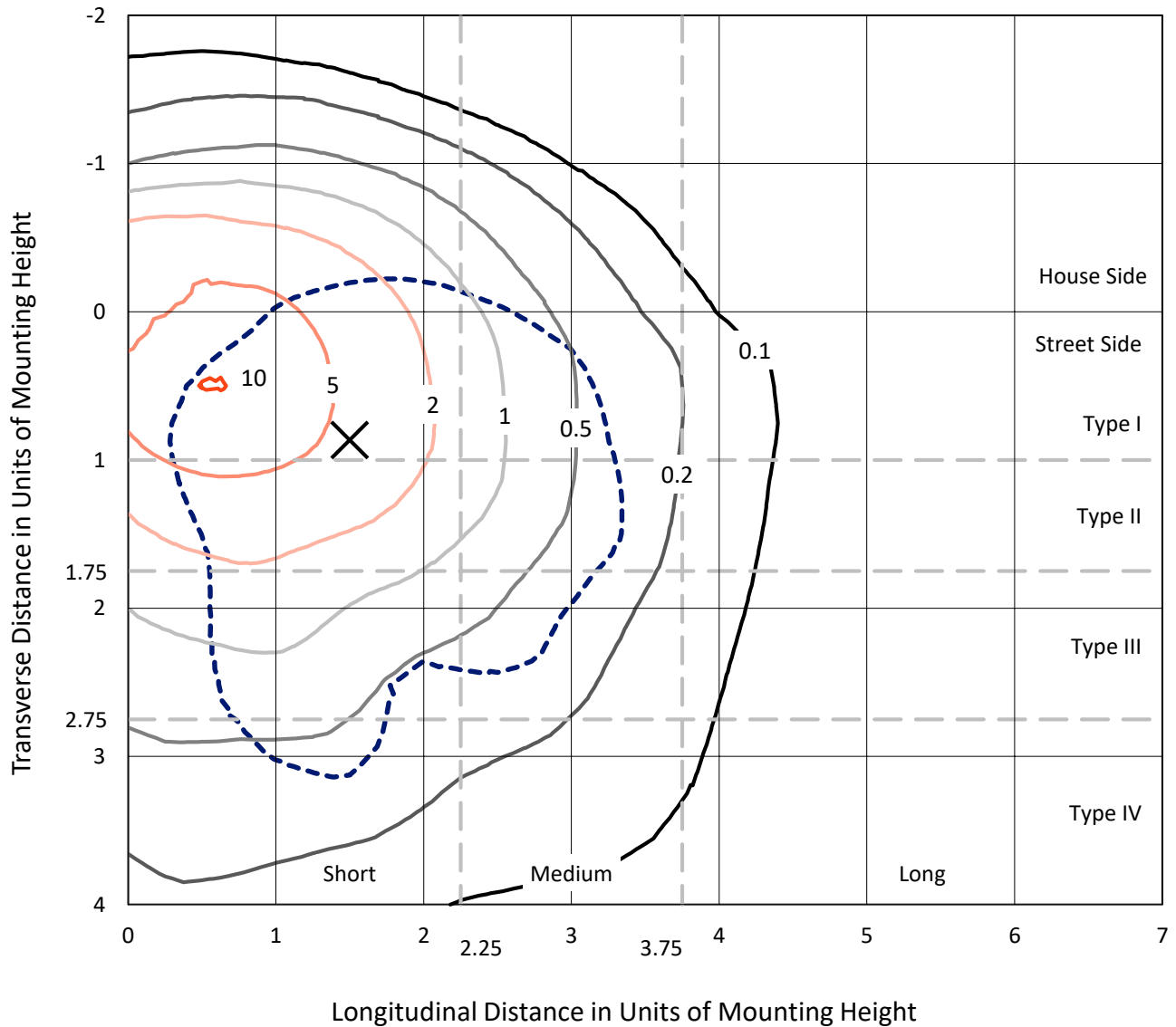
Lumens per Lamp: N/A  
Luminaire Lumens: 22089.9 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 225.7  
Input Voltage (V): NR  
Input Current (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

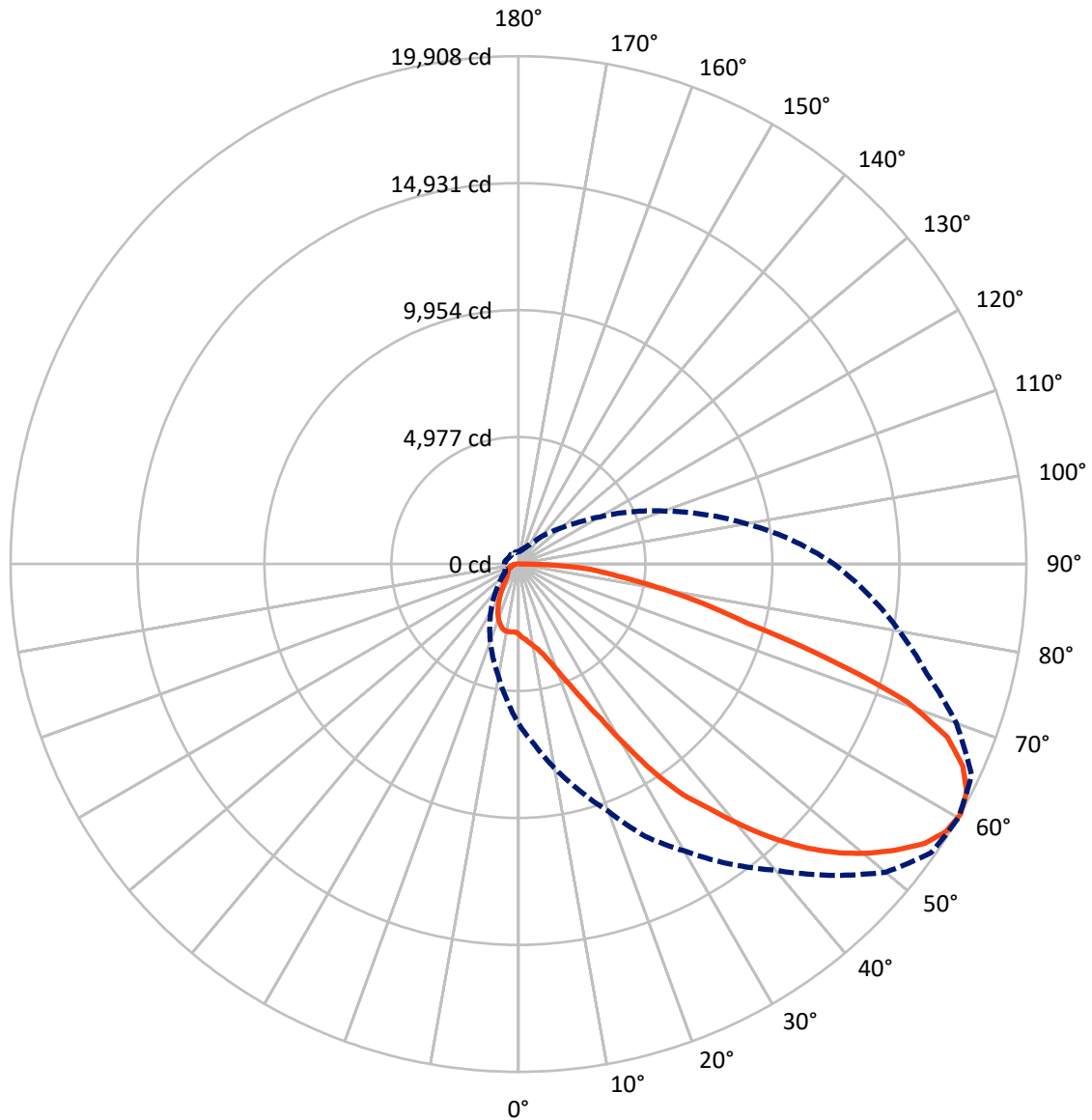
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	4973.9	0.0	4973.9
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	17115.9	0.0	17115.9
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	22089.9	0.0	22089.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.0	1.2
10°-20°	875.1	4.0
20°-30°	1660.6	7.5
30°-40°	2615.1	11.8
40°-50°	3650.0	16.5
50°-60°	4514.3	20.4
60°-70°	4679.3	21.2
70°-80°	2944.4	13.3
80°-90°	880.1	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°	22089.9	100.0
0°-180°	22089.9	100.0



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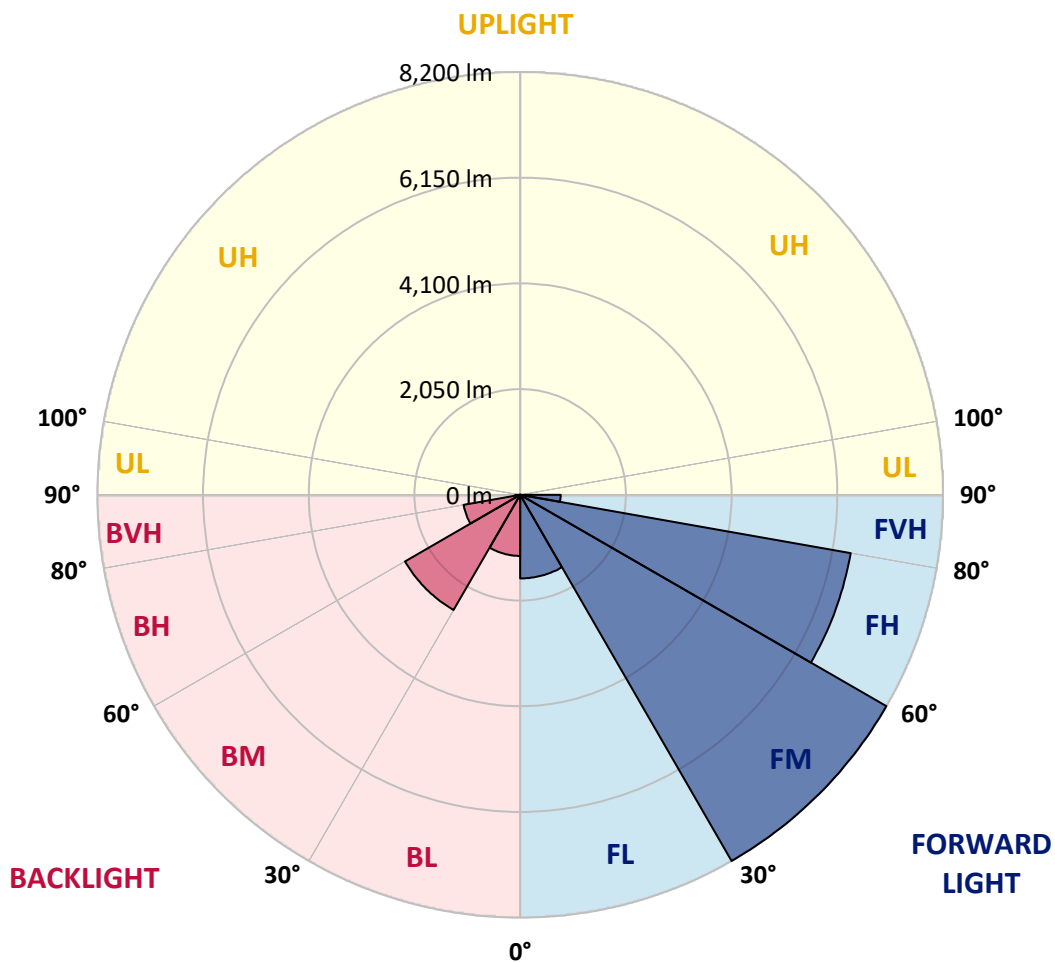
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1621.7	7.3			
FM	(30°-60°)	8200.1	37.1			
FH	(60°-80°)	6509.7	29.5			G3/7500
FVH	(80°-90°)	784.4	3.6			G5
BL	(0°-30°)	1185.0	5.4	B3/2500		
BM	(30°-60°)	2579.3	11.7	B3/5000		
BH	(60°-80°)	1113.9	5.0	B3/2500		G3/2500
BVH	(80°-90°)	95.7	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°	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2
2.5°	2909.9	2906.6	2906.6	2906.6	2905.0	2901.7	2906.6	2905.0	2896.8	2891.8	2896.8
5°	2947.7	2949.4	2954.3	2956.0	2956.0	2960.9	2974.1	2975.7	2974.1	2977.3	2985.6
7.5°	2983.9	2992.1	2997.1	3005.3	3015.2	3023.4	3046.4	3069.4	3084.2	3095.7	3099.0
10°	3043.1	3056.3	3071.0	3092.4	3115.4	3156.5	3176.3	3199.3	3214.1	3237.1	3242.0
12.5°	3194.4	3210.8	3220.7	3253.5	3283.1	3322.6	3350.5	3357.1	3391.6	3411.4	3434.4
15°	3449.2	3473.8	3508.4	3528.1	3561.0	3595.5	3620.2	3653.0	3658.0	3684.3	3702.4
17.5°	3761.5	3796.1	3866.8	3914.4	3957.2	3991.7	4041.0	4078.8	4087.1	4116.7	4078.8
20°	4198.9	4282.7	4294.2	4389.6	4427.4	4496.4	4595.1	4613.1	4660.8	4613.1	4585.2
22.5°	4790.7	4922.2	4958.4	5050.5	5096.5	5201.7	5231.3	5328.3	5361.2	5325.0	5249.4
25°	5471.3	5675.2	5780.4	5921.8	5944.8	6160.2	6183.2	6296.6	6235.8	6148.7	6150.3
27.5°	5972.8	6319.7	6590.9	6832.6	7001.9	7245.2	7434.3	7486.9	7429.4	7315.9	7276.5
30°	6258.8	6651.7	7041.4	7375.1	7769.7	8141.2	8527.6	8719.9	8752.8	8812.0	8573.6
32.5°	6443.0	6947.7	7411.3	7823.9	8228.4	8706.8	9224.7	9719.5	10135.4	10449.5	10301.5
35°	6597.5	7220.6	7814.1	8313.9	8792.3	9313.4	9836.2	10419.9	11108.7	11511.5	11595.3
37.5°	6660.0	7421.2	8147.8	8789.0	9461.4	10048.3	10567.8	11087.3	11810.7	12529.2	12751.1
40°	6648.5	7519.8	8346.7	9152.3	9976.0	10709.2	11317.5	11932.4	12779.0	13619.1	13980.8
42.5°	6571.2	7534.6	8473.3	9394.0	10332.7	11307.6	12085.3	12793.8	13606.0	14682.8	15194.1
45°	6474.2	7483.6	8499.6	9517.3	10597.4	11725.2	12708.4	13584.6	14536.5	15600.2	16218.4
47.5°	6342.7	7403.1	8466.8	9560.0	10715.8	11993.2	13149.0	14202.8	15250.0	16474.8	17259.0
50°	6199.6	7288.0	8399.4	9528.8	10745.4	12139.5	13400.5	14600.6	15823.8	17145.6	18136.9
52.5°	6099.4	7164.7	8338.5	9464.7	10715.8	12183.9	13492.6	14814.4	16175.6	17541.8	18725.5
55°	5976.1	7000.3	8175.8	9315.1	10607.3	12159.3	13482.7	14888.3	16272.6	17694.7	19046.1
57.5°	5984.3	6924.7	8037.7	9135.9	10385.3	11930.7	13296.9	14814.4	16119.7	17596.1	19057.6
60°	6244.0	7087.4	8110.0	9172.0	10319.6	11786.1	12981.3	14337.6	15670.9	17255.7	18791.3
62.5°	6780.0	7552.7	8481.6	9533.7	10689.5	12075.4	12838.2	13545.2	14728.9	16629.4	18337.5
65°	7419.5	8116.6	8922.2	9923.4	11218.9	12545.6	12757.7	12900.7	13499.1	15411.1	17485.9
67.5°	8059.0	8682.1	9315.1	10145.3	11519.7	12680.4	12428.9	12088.6	12410.8	13995.6	15812.3
70°	8289.2	9116.1	9532.1	10102.6	11291.2	12366.4	11897.8	11041.3	11153.1	12593.3	13921.7
72.5°	7944.0	9122.7	9260.8	9472.9	10273.5	11284.6	10789.8	9688.3	9665.3	10765.1	11838.7
75°	6663.3	8322.1	8320.4	8241.5	8422.4	8997.8	8741.3	8077.1	8358.3	9224.7	9578.1
77.5°	4749.6	6493.9	6576.1	6045.1	6031.9	6291.7	6446.2	7218.9	8238.2	8724.9	8613.1
80°	2983.9	4381.3	4734.8	4078.8	3939.1	4307.4	5262.5	6387.1	7641.5	8078.8	7702.3
82.5°	1796.9	2822.8	3575.8	3204.2	3171.3	3842.1	4897.6	5334.9	5711.4	6176.6	5547.0
85°	1219.9	1880.8	2446.3	2520.3	2808.0	3501.8	3960.5	3766.5	3776.3	3654.7	3329.2
87.5°	233.5	512.9	838.5	1022.6	1134.4	1524.0	1657.2	1501.0	1584.8	1159.0	1267.5
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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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2
2.5°	2888.6	2888.6	2888.6	2880.3	2882.0	2870.5	2865.5	2865.5	2860.6	2860.6	2859.0
5°	2979.0	2969.1	2974.1	2972.4	2972.4	2956.0	2947.7	2947.7	2926.4	2928.0	2921.4
7.5°	3113.8	3112.1	3117.1	3107.2	3094.1	3080.9	3067.8	3061.2	3031.6	3013.5	3002.0
10°	3266.7	3265.0	3270.0	3268.3	3245.3	3220.7	3184.5	3158.2	3122.0	3094.1	3066.1
12.5°	3434.4	3432.7	3429.4	3414.7	3390.0	3350.5	3304.5	3260.1	3205.9	3169.7	3128.6
15°	3695.8	3690.8	3671.1	3649.7	3623.4	3562.6	3482.1	3417.9	3345.6	3283.1	3215.7
17.5°	4082.1	4041.0	4037.7	3990.1	3919.4	3838.8	3763.2	3656.3	3552.8	3459.0	3367.0
20°	4614.8	4519.4	4493.1	4438.9	4345.2	4261.3	4096.9	3953.9	3812.5	3684.3	3567.5
22.5°	5195.1	5126.1	5062.0	4973.2	4845.0	4723.3	4514.5	4335.3	4154.5	3990.1	3860.2
25°	6005.6	5885.6	5770.5	5629.2	5451.6	5306.9	5068.5	4887.7	4651.0	4501.4	4313.9
27.5°	7052.9	6847.4	6653.4	6531.7	6219.4	6008.9	5704.8	5471.3	5185.3	4983.1	4761.1
30°	8415.8	8177.4	7889.7	7468.8	7097.3	6679.7	6303.2	6004.0	5699.9	5417.1	5160.6
32.5°	10105.9	9685.0	9229.6	8562.1	7952.2	7357.0	6855.6	6487.3	6176.6	5824.8	5463.1
35°	11534.5	11100.5	10454.4	9606.1	8853.1	8172.5	7572.4	7069.3	6663.3	6217.7	5739.3
37.5°	12662.3	12167.5	11560.8	10659.9	9864.2	9089.8	8460.2	7819.0	7286.3	6673.1	6068.1
40°	13954.5	13458.0	12790.6	11856.7	10914.7	10074.6	9336.4	8673.9	8019.6	7271.5	6493.9
42.5°	15080.7	14722.3	14046.6	13081.6	12037.6	11102.1	10294.9	9537.0	8682.1	7845.3	6924.7
45°	16254.5	15889.6	15248.4	14238.9	13129.2	12086.9	11121.9	10306.4	9297.0	8300.7	7246.9
47.5°	17291.9	16917.1	16269.3	15266.5	14087.7	12989.5	11927.4	10941.0	9768.8	8624.6	7457.3
50°	18281.6	17822.9	17229.4	16229.9	14970.5	13796.7	12644.2	11378.3	10135.4	8851.5	7600.4
52.5°	19190.8	18607.1	18044.9	17015.7	15654.5	14428.0	13142.4	11749.9	10360.7	9030.7	7697.4
55°	19707.0	19330.5	18658.1	17647.0	16141.1	14862.0	13458.0	12011.3	10584.3	9157.3	7738.5
57.5°	19866.5	19774.4	19210.5	18012.0	16427.2	15100.4	13671.8	12218.4	10733.9	9193.4	7680.9
60°	19739.9	19907.6	19598.5	18268.5	16557.0	15171.1	13777.0	12366.4	10760.2	9078.3	7506.6
62.5°	19333.8	19715.2	19675.8	18354.0	16489.6	15082.3	13765.5	12290.8	10513.6	8719.9	7115.4
65°	18666.3	19146.4	19315.7	18036.7	16109.9	14758.5	13472.8	11815.6	9828.0	8019.6	6459.4
67.5°	17410.3	18136.9	18301.3	16997.6	15116.9	13862.5	12629.4	10829.2	8558.8	6936.2	5435.2
70°	14893.3	16164.1	16386.1	15018.2	13366.0	12264.5	11218.9	9265.8	7126.9	5563.4	4170.9
72.5°	11889.6	12688.6	13142.4	12200.4	10970.6	10171.6	9379.2	7108.8	5377.6	4105.1	2870.5
75°	9295.3	9247.7	9653.7	9027.4	8304.0	7930.8	7335.7	4960.0	3602.1	2719.2	1816.7
77.5°	7947.2	7335.7	6873.7	6433.1	6004.0	5885.6	5315.2	3077.6	2226.0	1629.2	1086.7
80°	6605.7	5489.4	4646.0	4026.2	3873.3	4106.8	3478.8	1815.0	1318.5	935.5	682.3
82.5°	4720.0	3949.0	3214.1	2821.2	2559.8	2931.3	2051.8	1007.8	715.2	560.6	452.1
85°	3059.5	2924.7	2893.5	2765.3	2448.0	2311.5	1558.5	868.0	536.0	348.5	281.1
87.5°	1177.1	1509.2	1741.0	1866.0	2017.2	1796.9	812.2	299.2	294.3	180.8	136.5
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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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2
2.5°	2847.5	2840.9	2839.2	2834.3	2831.0	2831.0	2822.8	2673.2	2671.5	2671.5	2669.9
5°	2908.3	2900.1	2891.8	2890.2	2883.6	2883.6	2875.4	2725.8	2725.8	2725.8	2722.5
7.5°	2990.5	2974.1	2964.2	2959.3	2949.4	2954.3	2960.9	2809.6	2811.3	2809.6	2812.9
10°	3049.7	3039.8	3028.3	3025.0	3018.4	3023.4	3033.2	2883.6	2888.6	2890.2	2893.5
12.5°	3107.2	3090.8	3076.0	3071.0	3067.8	3080.9	3092.4	2947.7	2952.7	2957.6	2957.6
15°	3177.9	3150.0	3130.2	3118.7	3112.1	3125.3	3141.7	2998.7	3000.4	3005.3	3003.6
17.5°	3297.9	3256.8	3210.8	3202.6	3181.2	3186.1	3189.4	3029.9	3023.4	3011.9	2992.1
20°	3483.7	3421.2	3358.8	3332.5	3289.7	3271.6	3235.5	3031.6	2990.5	2956.0	2926.4
22.5°	3750.0	3658.0	3590.6	3546.2	3459.0	3398.2	3299.6	3023.4	2946.1	2886.9	2840.9
25°	4180.8	4070.6	3967.0	3855.3	3718.8	3597.1	3452.5	3095.7	2975.7	2873.8	2785.0
27.5°	4600.0	4425.7	4266.3	4098.6	3906.2	3723.7	3519.9	3118.7	2982.3	2850.7	2706.1
30°	4914.0	4660.8	4419.2	4174.2	3922.7	3685.9	3455.8	3039.8	2877.1	2729.1	2576.2
32.5°	5104.7	4775.9	4461.9	4157.8	3861.8	3595.5	3337.4	2903.4	2724.2	2549.9	2387.1
35°	5285.6	4877.8	4488.2	4129.8	3791.1	3495.2	3217.4	2743.9	2530.2	2344.4	2138.9
37.5°	5509.1	4984.7	4504.6	4078.8	3687.6	3348.9	3043.1	2543.3	2329.6	2101.1	1907.1
40°	5777.1	5094.9	4488.2	3976.9	3526.4	3156.5	2832.7	2332.9	2094.5	1872.6	1681.8
42.5°	6031.9	5191.8	4445.5	3840.5	3350.5	2956.0	2640.3	2145.5	1907.1	1680.2	1491.1
45°	6221.0	5274.1	4424.1	3745.1	3215.7	2819.5	2471.0	1994.2	1742.7	1514.2	1321.8
47.5°	6352.5	5323.4	4414.2	3692.5	3122.0	2678.1	2316.4	1843.0	1578.3	1348.1	1160.7
50°	6421.6	5321.7	4389.6	3635.0	2983.9	2508.8	2157.0	1690.1	1427.0	1201.8	1030.8
52.5°	6439.7	5292.1	4337.0	3529.7	2816.2	2339.5	1986.0	1530.6	1293.9	1078.5	905.9
55°	6398.6	5219.8	4226.8	3353.8	2637.0	2160.3	1829.8	1405.6	1164.0	960.1	825.3
57.5°	6281.8	5091.6	4019.7	3112.1	2448.0	1994.2	1650.6	1254.4	1022.6	851.6	739.8
60°	6064.8	4820.3	3695.8	2826.1	2207.9	1741.0	1404.0	1057.1	873.0	744.7	654.3
62.5°	5663.7	4394.5	3240.4	2431.5	1862.7	1412.2	1121.2	843.4	705.3	621.4	565.5
65°	5017.6	3753.3	2712.7	1915.3	1415.5	1027.5	833.5	634.6	534.3	483.3	466.9
67.5°	4095.3	2898.4	1972.8	1330.0	958.5	720.1	580.3	463.6	415.9	396.2	389.6
70°	2977.3	1974.5	1277.4	840.1	633.0	503.1	439.0	373.2	346.9	342.0	342.0
72.5°	1869.3	1200.1	782.6	575.4	480.1	407.7	374.8	328.8	318.9	315.7	310.7
75°	1096.6	728.3	554.0	471.8	411.0	365.0	337.0	299.2	292.6	291.0	286.1
77.5°	698.7	524.4	447.2	402.8	371.6	330.5	305.8	266.3	264.7	263.0	261.4
80°	501.4	435.7	391.3	356.8	325.5	287.7	272.9	241.7	238.4	236.7	240.0
82.5°	379.8	360.0	342.0	315.7	272.9	245.0	233.5	212.1	213.7	205.5	203.9
85°	261.4	258.1	256.5	245.0	213.7	189.1	180.8	169.3	177.6	169.3	159.5
87.5°	128.2	126.6	116.7	138.1	128.2	101.9	92.1	101.9	113.4	110.2	101.9
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: P158819

CATALOG NUMBER: VTS-E09-LED-E1-SLL-7030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2
2.5°	2663.3	2656.8	2661.7	2658.4	2658.4	2656.8	2660.0	2655.1	2651.8	2655.1	2656.8
5°	2715.9	2707.7	2709.4	2697.9	2702.8	2691.3	2694.6	2686.3	2678.1	2674.8	2674.8
7.5°	2804.7	2796.5	2786.6	2785.0	2766.9	2760.3	2748.8	2742.2	2737.3	2725.8	2719.2
10°	2885.3	2872.1	2860.6	2859.0	2840.9	2824.4	2809.6	2796.5	2788.3	2771.8	2763.6
12.5°	2951.0	2937.9	2919.8	2909.9	2891.8	2872.1	2862.3	2842.5	2831.0	2812.9	2798.1
15°	2988.8	2965.8	2939.5	2921.4	2895.1	2873.8	2859.0	2844.2	2832.7	2809.6	2788.3
17.5°	2970.8	2933.0	2896.8	2863.9	2827.7	2808.0	2786.6	2768.5	2765.3	2739.0	2706.1
20°	2895.1	2850.7	2803.1	2758.7	2711.0	2683.1	2656.8	2628.8	2620.6	2589.3	2546.6
22.5°	2803.1	2752.1	2697.9	2643.6	2582.8	2543.3	2503.9	2469.3	2441.4	2395.4	2334.5
25°	2709.4	2633.7	2554.8	2485.8	2415.1	2365.8	2324.7	2286.8	2254.0	2180.0	2117.5
27.5°	2586.1	2467.7	2387.1	2308.2	2222.7	2158.6	2112.6	2060.0	2023.8	1938.3	1872.6
30°	2428.2	2309.9	2194.8	2115.9	2030.4	1961.3	1902.1	1826.5	1773.9	1711.4	1650.6
32.5°	2229.3	2110.9	1994.2	1905.4	1834.7	1749.2	1675.3	1602.9	1542.1	1481.3	1433.6
35°	1987.6	1872.6	1762.4	1673.6	1594.7	1527.3	1456.6	1394.1	1325.1	1259.3	1231.4
37.5°	1732.8	1609.5	1487.8	1410.6	1348.1	1300.4	1234.7	1183.7	1121.2	1081.8	1048.9
40°	1510.9	1379.3	1264.3	1198.5	1149.2	1094.9	1040.7	1001.2	956.8	917.4	892.7
42.5°	1323.4	1200.1	1101.5	1045.6	986.4	927.2	886.1	853.3	825.3	795.7	766.1
45°	1150.8	1032.5	950.2	881.2	831.9	784.2	756.3	741.5	725.0	706.9	687.2
47.5°	1006.1	904.2	823.7	759.5	708.6	675.7	662.5	657.6	651.0	636.2	626.4
50°	896.0	812.2	729.9	672.4	629.7	613.2	598.4	593.5	585.3	580.3	573.8
52.5°	803.9	715.2	646.1	593.5	567.2	560.6	554.0	547.5	545.8	542.5	539.2
55°	728.3	651.0	586.9	547.5	534.3	529.4	527.7	521.2	519.5	519.5	514.6
57.5°	660.9	595.1	537.6	512.9	504.7	499.8	496.5	493.2	493.2	496.5	494.9
60°	591.9	536.0	501.4	488.3	483.3	475.1	466.9	463.6	465.3	473.5	473.5
62.5°	524.4	483.3	462.0	457.0	452.1	445.5	435.7	432.4	435.7	445.5	450.5
65°	450.5	432.4	425.8	422.5	419.2	414.3	407.7	404.4	406.1	411.0	417.6
67.5°	383.1	381.4	381.4	383.1	381.4	379.8	376.5	371.6	369.9	369.9	373.2
70°	342.0	342.0	346.9	346.9	345.2	345.2	340.3	335.4	332.1	328.8	330.5
72.5°	310.7	310.7	312.4	314.0	312.4	312.4	305.8	302.5	294.3	292.6	289.3
75°	284.4	281.1	281.1	279.5	277.8	279.5	272.9	264.7	261.4	259.8	256.5
77.5°	258.1	251.5	248.2	245.0	246.6	245.0	240.0	235.1	230.2	228.5	226.9
80°	228.5	218.7	213.7	205.5	210.4	212.1	208.8	203.9	202.2	200.6	198.9
82.5°	189.1	179.2	172.6	167.7	164.4	167.7	172.6	184.1	180.8	179.2	175.9
85°	148.0	131.5	123.3	124.9	116.7	118.4	133.2	139.7	139.7	143.0	139.7
87.5°	83.8	80.6	60.8	55.9	59.2	70.7	78.9	87.1	87.1	82.2	92.1
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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CATALOG NUMBER: VTS-E09-LED-E1-SLL-7030

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2
2.5°	2656.8	2660.0	2661.7	2668.3	2671.5	2673.2	2674.8	2678.1	2679.8	2678.1	2686.3
5°	2669.9	2669.9	2666.6	2671.5	2673.2	2673.2	2669.9	2673.2	2673.2	2673.2	2681.4
7.5°	2704.4	2694.6	2689.6	2683.1	2678.1	2671.5	2663.3	2663.3	2661.7	2663.3	2668.3
10°	2740.6	2725.8	2707.7	2691.3	2676.5	2665.0	2650.2	2645.2	2643.6	2642.0	2655.1
12.5°	2768.5	2742.2	2714.3	2686.3	2656.8	2637.0	2612.4	2597.6	2595.9	2595.9	2612.4
15°	2748.8	2706.1	2651.8	2602.5	2576.2	2548.2	2520.3	2502.2	2500.6	2503.9	2513.7
17.5°	2650.2	2581.1	2533.5	2485.8	2451.2	2428.2	2410.1	2406.9	2413.4	2406.9	2420.0
20°	2482.5	2408.5	2375.6	2337.8	2324.7	2308.2	2281.9	2258.9	2258.9	2229.3	2237.5
22.5°	2265.5	2224.4	2181.6	2152.0	2142.2	2114.2	2086.3	2055.0	2051.8	2015.6	2010.6
25°	2038.6	1997.5	1963.0	1956.4	1926.8	1889.0	1862.7	1826.5	1818.3	1782.1	1777.2
27.5°	1806.8	1773.9	1739.4	1719.7	1703.2	1662.1	1639.1	1596.4	1579.9	1540.5	1535.5
30°	1586.5	1563.5	1522.4	1505.9	1474.7	1427.0	1377.7	1351.4	1338.2	1297.1	1284.0
32.5°	1379.3	1343.2	1311.9	1292.2	1252.8	1198.5	1154.1	1116.3	1091.6	1042.3	1029.2
35°	1182.1	1145.9	1131.1	1080.1	1045.6	1009.4	948.6	925.6	881.2	843.4	830.2
37.5°	1007.8	973.3	953.5	910.8	876.3	840.1	803.9	774.3	753.0	744.7	744.7
40°	858.2	840.1	815.4	784.2	761.2	734.9	715.2	705.3	703.6	706.9	715.2
42.5°	751.3	731.6	715.2	698.7	682.3	679.0	674.1	680.6	688.8	697.1	705.3
45°	670.8	654.3	644.5	637.9	636.2	641.2	651.0	660.9	675.7	685.6	692.1
47.5°	613.2	600.1	596.8	595.1	603.4	618.2	631.3	646.1	657.6	667.5	674.1
50°	563.9	552.4	550.8	549.1	560.6	573.8	585.3	605.0	613.2	619.8	624.7
52.5°	529.4	519.5	514.6	516.2	527.7	539.2	555.7	570.5	582.0	586.9	591.9
55°	501.4	498.1	486.6	491.6	503.1	517.9	534.3	550.8	562.3	570.5	578.7
57.5°	480.1	471.8	463.6	471.8	483.3	498.1	517.9	532.7	547.5	559.0	567.2
60°	457.0	450.5	443.9	452.1	463.6	478.4	493.2	512.9	531.0	542.5	550.8
62.5°	437.3	432.4	425.8	427.4	432.4	442.2	450.5	468.5	485.0	499.8	509.6
65°	409.4	407.7	397.9	399.5	402.8	412.7	419.2	435.7	452.1	465.3	473.5
67.5°	368.3	365.0	365.0	369.9	371.6	376.5	381.4	397.9	411.0	420.9	430.7
70°	327.2	325.5	325.5	328.8	327.2	332.1	338.7	353.5	369.9	379.8	389.6
72.5°	287.7	287.7	286.1	289.3	289.3	291.0	299.2	312.4	327.2	335.4	342.0
75°	253.2	251.5	251.5	251.5	253.2	253.2	261.4	272.9	287.7	292.6	302.5
77.5°	221.9	221.9	221.9	221.9	223.6	221.9	226.9	235.1	240.0	248.2	248.2
80°	195.6	194.0	195.6	197.3	197.3	195.6	195.6	197.3	198.9	198.9	198.9
82.5°	172.6	167.7	171.0	179.2	179.2	179.2	177.6	166.0	157.8	157.8	161.1
85°	138.1	138.1	139.7	151.3	152.9	146.3	152.9	136.5	120.0	115.1	118.4
87.5°	85.5	67.4	82.2	93.7	93.7	88.8	98.6	92.1	77.3	62.5	59.2
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: P158819  
 CATALOG NUMBER: VTS-E09-LED-E1-SLL-7030

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	0°
2.5°	2692.9	2694.6	2704.4	2709.4	2709.4	2715.9	2719.2	2729.1	2727.4	2727.4	2730.7	2.5°
5°	2689.6	2694.6	2704.4	2711.0	2714.3	2722.5	2729.1	2740.6	2739.0	2742.2	2743.9	5°
7.5°	2678.1	2691.3	2701.1	2714.3	2725.8	2732.4	2740.6	2750.5	2747.2	2748.8	2747.2	7.5°
10°	2668.3	2681.4	2701.1	2719.2	2735.7	2745.5	2750.5	2762.0	2760.3	2763.6	2763.6	10°
12.5°	2628.8	2651.8	2676.5	2704.4	2729.1	2755.4	2771.8	2796.5	2808.0	2822.8	2839.2	12.5°
15°	2528.5	2554.8	2594.3	2625.5	2673.2	2709.4	2757.0	2804.7	2847.5	2888.6	2936.2	15°
17.5°	2429.9	2441.4	2472.6	2515.4	2558.1	2612.4	2669.9	2755.4	2832.7	2916.5	3008.6	17.5°
20°	2247.4	2267.1	2288.5	2339.5	2390.4	2467.7	2538.4	2650.2	2763.6	2895.1	3036.5	20°
22.5°	2022.2	2041.9	2064.9	2122.4	2184.9	2263.8	2349.3	2474.3	2625.5	2796.5	2985.6	22.5°
25°	1778.8	1790.3	1808.4	1866.0	1903.8	2007.4	2110.9	2240.8	2405.2	2625.5	2845.8	25°
27.5°	1510.9	1532.2	1547.0	1573.3	1660.5	1749.2	1857.8	1997.5	2196.4	2421.7	2688.0	27.5°
30°	1254.4	1272.5	1264.3	1320.2	1377.7	1471.4	1588.1	1742.7	1933.4	2201.4	2508.8	30°
32.5°	1002.9	1016.0	1011.1	1050.5	1108.1	1201.8	1311.9	1479.6	1681.8	1967.9	2301.6	32.5°
35°	826.9	830.2	848.3	866.4	915.7	991.4	1085.1	1231.4	1438.5	1701.6	2055.0	35°
37.5°	744.7	751.3	762.8	787.5	823.7	877.9	955.2	1068.6	1246.2	1478.0	1793.6	37.5°
40°	720.1	725.0	731.6	748.0	782.6	830.2	899.3	994.6	1124.5	1320.2	1576.6	40°
42.5°	708.6	708.6	708.6	718.4	744.7	795.7	874.6	968.3	1081.8	1229.7	1436.9	42.5°
45°	692.1	692.1	690.5	695.4	713.5	764.5	850.0	955.2	1076.8	1218.2	1397.4	45°
47.5°	674.1	672.4	667.5	667.5	679.0	729.9	818.7	932.2	1065.3	1228.1	1420.4	47.5°
50°	624.7	624.7	624.7	629.7	639.5	685.6	780.9	900.9	1053.8	1234.7	1456.6	50°
52.5°	596.8	598.4	603.4	603.4	613.2	660.9	761.2	894.4	1060.4	1259.3	1502.6	52.5°
55°	583.6	588.6	593.5	593.5	601.7	651.0	754.6	899.3	1085.1	1310.3	1581.6	55°
57.5°	572.1	577.1	580.3	580.3	586.9	629.7	736.5	891.1	1099.9	1359.6	1678.6	57.5°
60°	550.8	554.0	555.7	555.7	557.3	593.5	695.4	851.6	1067.0	1356.3	1731.2	60°
62.5°	511.3	517.9	519.5	521.2	521.2	555.7	642.8	787.5	996.3	1307.0	1716.4	62.5°
65°	481.7	485.0	489.9	493.2	499.8	522.8	591.9	710.2	904.2	1208.4	1634.2	65°
67.5°	435.7	440.6	445.5	452.1	458.7	473.5	527.7	623.1	779.3	1040.7	1450.0	67.5°
70°	394.6	396.2	401.1	409.4	411.0	419.2	458.7	524.4	637.9	835.2	1167.3	70°
72.5°	343.6	346.9	353.5	363.3	363.3	369.9	392.9	427.4	499.8	637.9	861.5	72.5°
75°	299.2	302.5	307.4	307.4	299.2	300.9	317.3	342.0	396.2	480.1	628.0	75°
77.5°	248.2	254.8	259.8	249.9	246.6	251.5	259.8	277.8	317.3	381.4	471.8	77.5°
80°	205.5	208.8	210.4	212.1	208.8	213.7	220.3	231.8	258.1	307.4	373.2	80°
82.5°	164.4	167.7	172.6	179.2	179.2	197.3	198.9	198.9	213.7	245.0	292.6	82.5°
85°	121.7	128.2	134.8	143.0	144.7	154.5	149.6	148.0	152.9	182.5	202.2	85°
87.5°	62.5	67.4	70.7	77.3	69.0	72.3	72.3	67.4	59.2	74.0	82.2	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: P158819

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**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
2747.2	2747.2	2747.2	2747.2	2747.2	2747.2	2747.2
2734.0	2730.7	2734.0	2734.0	2739.0	2735.7	2909.9
2747.2	2743.9	2747.2	2750.5	2755.4	2755.4	2947.7
2748.8	2748.8	2745.5	2753.8	2760.3	2766.9	2983.9
2768.5	2768.5	2771.8	2773.5	2788.3	2804.7	3043.1
2849.1	2857.3	2872.1	2877.1	2903.4	2921.4	3194.4
2972.4	3018.4	3048.0	3057.9	3080.9	3115.4	3449.2
3097.4	3174.6	3255.2	3304.5	3334.1	3375.2	3761.5
3191.1	3335.7	3473.8	3597.1	3667.8	3748.4	4198.9
3199.3	3429.4	3662.9	3891.4	4080.5	4230.1	4790.7
3120.4	3422.9	3745.1	4095.3	4420.8	4690.4	5471.3
3020.1	3391.6	3802.6	4249.8	4677.3	5075.1	5972.8
2893.5	3339.0	3812.5	4315.6	4817.0	5295.4	6258.8
2701.1	3182.8	3694.1	4249.8	4831.8	5413.8	6443.0
2454.5	2946.1	3470.5	4103.5	4762.8	5461.5	6597.5
2203.0	2688.0	3251.9	3907.9	4652.6	5453.2	6660.0
1936.7	2418.4	2995.4	3699.1	4503.0	5377.6	6648.5
1755.8	2194.8	2760.3	3487.0	4337.0	5277.3	6571.2
1650.6	2035.3	2574.6	3293.0	4185.7	5157.3	6474.2
1649.0	1987.6	2475.9	3154.9	4032.8	5024.2	6342.7
1706.5	2017.2	2464.4	3095.7	3949.0	4927.2	6199.6
1773.9	2099.4	2525.2	3117.1	3947.3	4884.4	6099.4
1880.8	2239.2	2658.4	3209.1	3990.1	4877.8	5976.1
2017.2	2428.2	2898.4	3436.0	4156.1	5007.7	5984.3
2157.0	2650.2	3212.4	3824.0	4483.3	5310.2	6244.0
2207.9	2821.2	3531.4	4279.4	4973.2	5764.0	6780.0
2163.5	2860.6	3725.4	4632.9	5450.0	6295.0	7419.5
1999.1	2701.1	3646.5	4733.2	5724.5	6671.5	8059.0
1645.7	2304.9	3288.1	4507.9	5703.1	6748.7	8289.2
1206.7	1787.1	2673.2	3830.6	5070.2	6265.4	7944.0
871.3	1264.3	1930.1	2885.3	4008.1	5045.5	6663.3
624.7	876.3	1252.8	1895.6	2730.7	3513.3	4749.6
448.8	595.1	780.9	1137.7	1663.8	2157.0	2983.9
330.5	407.7	512.9	706.9	979.8	1256.0	1796.9
225.2	240.0	309.1	417.6	642.8	923.9	1219.9
85.5	97.0	113.4	171.0	287.7	330.5	233.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)