

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: P158854

Luminaire Tested: **VTS-F12-LED-E1-SLL-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158854  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33715)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-F12-LED-E1-SLL-7030  
Description: VENTUS LED SITE LUMINAIRE  
(12) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (84) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

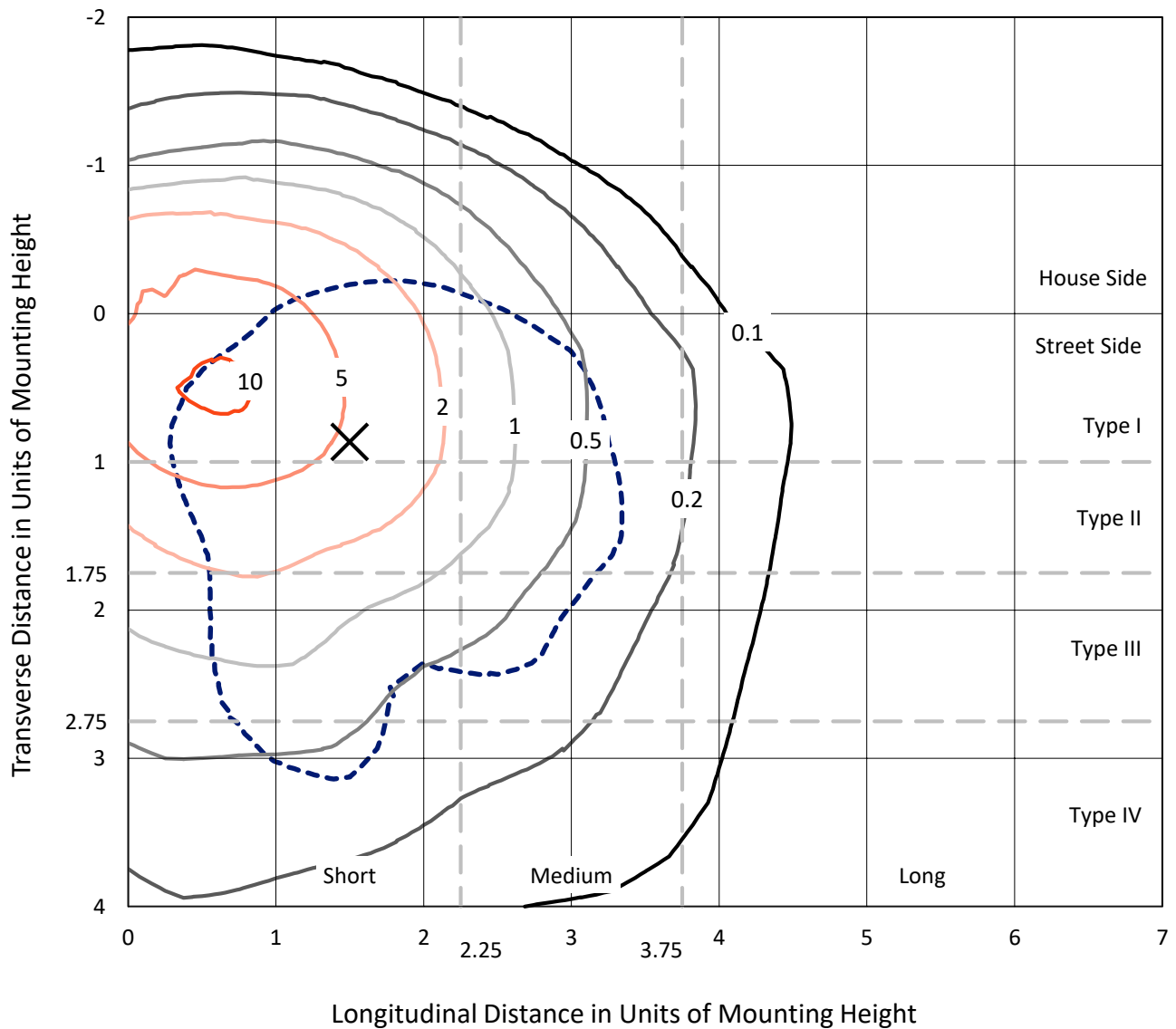
Lumens per Lamp: N/A  
Luminaire Lumens: 24314.3 lumens  
Efficiency: N/A  
Efficacy: 79.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 306.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

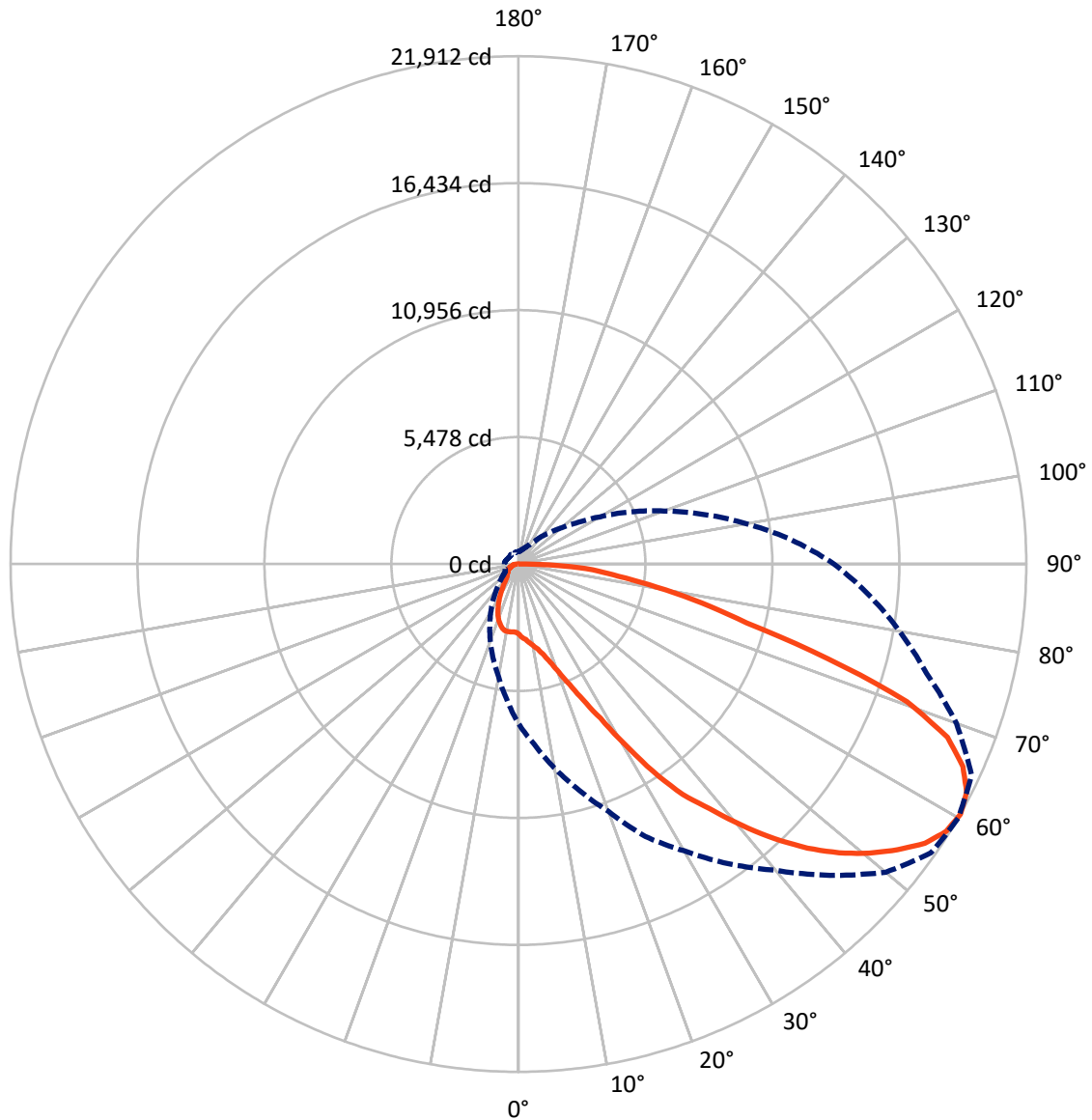
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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
<b>House Side</b>	Lumens	5474.8	0.0	5474.8
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	18839.5	0.0	18839.5
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	24314.3	0.0	24314.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.3	1.2
10°-20°	963.2	4.0
20°-30°	1827.8	7.5
30°-40°	2878.4	11.8
40°-50°	4017.6	16.5
50°-60°	4968.8	20.4
60°-70°	5150.5	21.2
70°-80°	3240.9	13.3
80°-90°	968.8	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°	24314.3	100.0
0°-180°	24314.3	100.0



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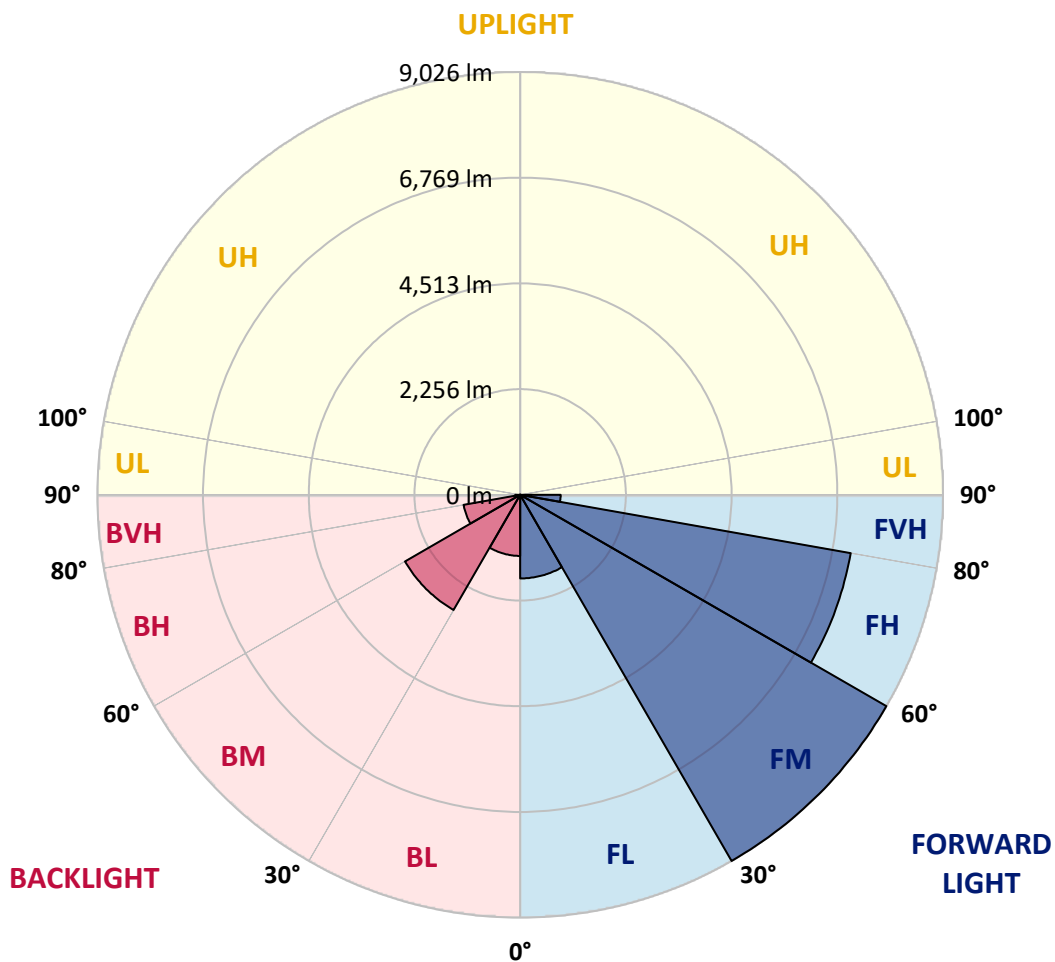
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1785.0	7.3			
FM	(30°-60°)	9025.9	37.1			
FH	(60°-80°)	7165.2	29.5			G3/7500
FVH	(80°-90°)	863.4	3.6			G5
BL	(0°-30°)	1304.3	5.4	B3/2500		
BM	(30°-60°)	2839.0	11.7	B3/5000		
BH	(60°-80°)	1226.1	5.0	B3/2500		G3/2500
BVH	(80°-90°)	105.4	0.4			G2/225
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°	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8
2.5°	3203.0	3199.3	3199.3	3199.3	3197.5	3193.9	3199.3	3197.5	3188.5	3183.1	3188.5
5°	3244.6	3246.4	3251.8	3253.6	3253.6	3259.1	3273.5	3275.3	3273.5	3277.2	3286.2
7.5°	3284.4	3293.4	3298.9	3307.9	3318.8	3327.8	3353.2	3378.5	3394.8	3407.4	3411.1
10°	3349.5	3364.0	3380.3	3403.8	3429.2	3474.4	3496.1	3521.5	3537.7	3563.1	3568.5
12.5°	3516.0	3534.1	3545.0	3581.2	3613.7	3657.2	3687.9	3695.2	3733.2	3754.9	3780.2
15°	3796.5	3823.7	3861.7	3883.4	3919.6	3957.6	3984.7	4020.9	4026.3	4055.3	4075.2
17.5°	4140.3	4178.3	4256.1	4308.6	4355.7	4393.7	4448.0	4489.6	4498.6	4531.2	4489.6
20°	4621.7	4714.0	4726.6	4831.6	4873.2	4949.2	5057.8	5077.7	5130.2	5077.7	5046.9
22.5°	5273.1	5417.9	5457.7	5559.0	5609.7	5725.5	5758.1	5864.9	5901.1	5861.2	5778.0
25°	6022.3	6246.7	6362.5	6518.1	6543.5	6780.5	6805.8	6930.7	6863.8	6767.8	6769.7
27.5°	6574.2	6956.0	7254.6	7520.6	7707.0	7974.8	8182.9	8240.8	8177.5	8052.7	8009.2
30°	6889.1	7321.6	7750.4	8117.8	8552.1	8961.1	9386.3	9598.0	9634.2	9699.4	9437.0
32.5°	7091.8	7647.3	8157.6	8611.8	9057.0	9583.6	10153.6	10698.3	11156.1	11501.7	11338.9
35°	7261.9	7947.7	8601.0	9151.1	9677.7	10251.3	10826.7	11469.1	12227.4	12670.7	12763.0
37.5°	7330.6	8168.5	8968.3	9674.0	10414.2	11060.2	11632.0	12203.8	13000.1	13790.8	14035.1
40°	7318.0	8277.0	9187.3	10074.0	10980.6	11787.6	12457.2	13134.0	14065.9	14990.6	15388.7
42.5°	7232.9	8293.3	9326.6	10340.0	11373.2	12446.3	13302.3	14082.2	14976.1	16161.4	16724.2
45°	7126.1	8237.2	9355.6	10475.7	11664.6	12906.0	13988.1	14952.6	16000.3	17171.1	17851.5
47.5°	6981.4	8148.6	9319.4	10522.7	11794.9	13200.9	14473.1	15633.0	16785.7	18133.8	18997.0
50°	6823.9	8021.9	9245.2	10488.4	11827.4	13362.0	14749.9	16070.9	17417.2	18872.2	19963.3
52.5°	6713.6	7886.2	9178.2	10417.8	11794.9	13410.8	14851.3	16306.2	17804.5	19308.3	20611.2
55°	6577.8	7705.2	8999.1	10253.1	11675.4	13383.7	14840.4	16387.6	17911.3	19476.6	20964.0
57.5°	6586.9	7622.0	8847.1	10055.9	11431.1	13132.2	14635.9	16306.2	17743.0	19368.0	20976.7
60°	6872.8	7801.1	8926.7	10095.7	11358.8	12972.9	14288.5	15781.4	17249.0	18993.4	20683.5
62.5°	7462.7	8313.2	9335.6	10493.8	11765.9	13291.4	14131.0	14909.2	16212.1	18303.9	20184.1
65°	8166.7	8933.9	9820.6	10922.7	12348.6	13808.9	14042.4	14199.8	14858.5	16963.0	19246.7
67.5°	8870.6	9556.4	10253.1	11166.9	12679.8	13957.3	13680.5	13305.9	13660.6	15405.0	17404.6
70°	9123.9	10034.1	10492.0	11119.9	12428.2	13611.7	13096.0	12153.2	12276.2	13861.4	15323.6
72.5°	8743.9	10041.4	10193.4	10426.8	11308.1	12421.0	11876.3	10663.9	10638.5	11849.2	13030.8
75°	7334.2	9160.1	9158.3	9071.4	9270.5	9903.9	9621.6	8890.5	9199.9	10153.6	10542.6
77.5°	5227.9	7147.9	7238.3	6653.8	6639.4	6925.3	7095.4	7945.9	9067.8	9603.5	9480.4
80°	3284.4	4822.5	5211.6	4489.6	4335.8	4741.1	5792.5	7030.2	8410.9	8892.3	8477.9
82.5°	1977.9	3107.1	3935.8	3526.9	3490.7	4229.0	5390.8	5872.1	6286.5	6798.6	6105.5
85°	1342.7	2070.2	2692.7	2774.1	3090.8	3854.4	4359.3	4145.8	4156.6	4022.7	3664.4
87.5°	257.0	564.6	922.9	1125.6	1248.6	1677.5	1824.1	1652.2	1744.4	1275.8	1395.2
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°	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8
2.5°	3179.4	3179.4	3179.4	3170.4	3172.2	3159.5	3154.1	3154.1	3148.7	3148.7	3146.9
5°	3279.0	3268.1	3273.5	3271.7	3271.7	3253.6	3244.6	3244.6	3221.1	3222.9	3215.6
7.5°	3427.4	3425.5	3431.0	3420.1	3405.6	3391.2	3376.7	3369.4	3336.9	3317.0	3304.3
10°	3595.6	3593.8	3599.3	3597.5	3572.1	3545.0	3505.2	3476.2	3436.4	3405.6	3374.9
12.5°	3780.2	3778.4	3774.8	3758.5	3731.4	3687.9	3637.3	3588.4	3528.7	3488.9	3443.6
15°	4067.9	4062.5	4040.8	4017.3	3988.3	3921.4	3832.7	3762.1	3682.5	3613.7	3539.5
17.5°	4493.2	4448.0	4444.3	4391.9	4314.0	4225.4	4142.1	4024.5	3910.5	3807.4	3706.0
20°	5079.5	4974.5	4945.6	4885.9	4782.7	4690.4	4509.5	4352.1	4196.4	4055.3	3926.8
22.5°	5718.3	5642.3	5571.7	5474.0	5332.8	5198.9	4969.1	4771.9	4572.8	4391.9	4248.9
25°	6610.4	6478.3	6351.6	6196.0	6000.6	5841.3	5578.9	5379.9	5119.3	4954.6	4748.3
27.5°	7763.1	7536.9	7323.4	7189.5	6845.7	6614.0	6279.3	6022.3	5707.4	5484.9	5240.6
30°	9263.3	9000.9	8684.2	8220.9	7812.0	7352.3	6937.9	6608.6	6273.8	5962.6	5680.3
32.5°	11123.5	10660.3	10159.0	9424.3	8753.0	8097.9	7546.0	7140.6	6798.6	6411.4	6013.2
35°	12696.0	12218.3	11507.1	10573.4	9744.6	8995.4	8334.9	7781.2	7334.2	6843.8	6317.3
37.5°	13937.4	13392.7	12725.0	11733.3	10857.5	10005.2	9312.1	8606.4	8020.1	7345.1	6679.2
40°	15359.8	14813.3	14078.6	13050.7	12013.8	11089.1	10276.6	9547.4	8827.2	8003.8	7147.9
42.5°	16599.3	16204.8	15461.1	14398.9	13249.8	12220.1	11331.6	10497.4	9556.4	8635.3	7622.0
45°	17891.4	17489.6	16783.9	15672.8	14451.3	13304.1	12241.8	11344.3	10233.2	9136.6	7976.6
47.5°	19033.2	18620.6	17907.6	16803.8	15506.3	14297.5	13128.5	12042.8	10752.6	9493.1	8208.3
50°	20122.6	19617.7	18964.4	17864.2	16478.1	15186.0	13917.5	12524.1	11156.1	9742.8	8365.7
52.5°	21123.3	20480.9	19862.0	18729.2	17230.9	15880.9	14465.8	12933.1	11404.0	9940.0	8472.5
55°	21691.5	21277.1	20537.0	19424.1	17766.5	16358.6	14813.3	13220.8	11650.1	10079.4	8517.7
57.5°	21867.0	21765.7	21145.0	19825.8	18081.4	16621.0	15048.5	13448.8	11814.8	10119.2	8454.4
60°	21727.7	21912.3	21572.1	20108.1	18224.3	16698.8	15164.3	13611.7	11843.7	9992.5	8262.6
62.5°	21280.7	21700.5	21657.1	20202.2	18150.1	16601.1	15151.6	13528.5	11572.3	9598.0	7831.9
65°	20546.0	21074.4	21260.8	19852.9	17732.1	16244.6	14829.5	13005.5	10817.7	8827.2	7109.9
67.5°	19163.5	19963.3	20144.3	18709.3	16639.1	15258.4	13901.2	11919.7	9420.7	7634.6	5982.5
70°	16393.0	17791.8	18036.1	16530.6	14711.9	13499.5	12348.6	10198.8	7844.5	6123.6	4590.9
72.5°	13086.9	13966.4	14465.8	13428.9	12075.4	11195.9	10323.7	7824.6	5919.2	4518.5	3159.5
75°	10231.4	10178.9	10625.9	9936.4	9140.2	8729.4	8074.4	5459.5	3964.8	2993.1	1999.6
77.5°	8747.5	8074.4	7565.9	7080.9	6608.6	6478.3	5850.4	3387.5	2450.2	1793.3	1196.1
80°	7270.9	6042.2	5113.9	4431.7	4263.4	4520.3	3829.1	1997.8	1451.3	1029.7	751.0
82.5°	5195.3	4346.6	3537.7	3105.2	2817.5	3226.5	2258.4	1109.3	787.2	617.1	497.6
85°	3367.6	3219.3	3184.9	3043.7	2694.5	2544.3	1715.5	955.5	589.9	383.6	309.4
87.5°	1295.7	1661.2	1916.3	2053.9	2220.4	1977.9	893.9	329.3	323.9	199.1	150.2
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°	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8
2.5°	3134.2	3127.0	3125.2	3119.7	3116.1	3116.1	3107.1	2942.4	2940.6	2940.6	2938.8
5°	3201.2	3192.1	3183.1	3181.2	3174.0	3174.0	3165.0	3000.3	3000.3	3000.3	2996.7
7.5°	3291.6	3273.5	3262.7	3257.3	3246.4	3251.8	3259.1	3092.6	3094.4	3092.6	3096.2
10°	3356.8	3345.9	3333.3	3329.6	3322.4	3327.8	3338.7	3174.0	3179.4	3181.2	3184.9
12.5°	3420.1	3402.0	3385.7	3380.3	3376.7	3391.2	3403.8	3244.6	3250.0	3255.4	3255.4
15°	3497.9	3467.2	3445.4	3432.8	3425.5	3440.0	3458.1	3300.7	3302.5	3307.9	3306.1
17.5°	3630.0	3584.8	3534.1	3525.1	3501.5	3507.0	3510.6	3335.1	3327.8	3315.2	3293.4
20°	3834.5	3765.7	3697.0	3668.0	3621.0	3601.1	3561.3	3336.9	3291.6	3253.6	3221.1
22.5°	4127.7	4026.3	3952.1	3903.3	3807.4	3740.4	3631.8	3327.8	3242.8	3177.6	3127.0
25°	4601.8	4480.5	4366.5	4243.5	4093.3	3959.4	3800.1	3407.4	3275.3	3163.2	3065.4
27.5°	5063.2	4871.4	4695.9	4511.3	4299.6	4098.7	3874.3	3432.8	3282.6	3137.8	2978.6
30°	5408.8	5130.2	4864.2	4594.5	4317.7	4057.1	3803.7	3345.9	3166.8	3003.9	2835.6
32.5°	5618.8	5256.8	4911.2	4576.4	4250.7	3957.6	3673.5	3195.7	2998.5	2806.7	2627.5
35°	5817.8	5369.0	4940.2	4545.7	4172.9	3847.2	3541.4	3020.2	2785.0	2580.5	2354.3
37.5°	6063.9	5486.7	4958.3	4489.6	4058.9	3686.1	3349.5	2799.4	2564.2	2312.6	2099.1
40°	6358.9	5607.9	4940.2	4377.4	3881.6	3474.4	3117.9	2567.8	2305.4	2061.1	1851.2
42.5°	6639.4	5714.7	4893.1	4227.2	3687.9	3253.6	2906.2	2361.5	2099.1	1849.4	1641.3
45°	6847.5	5805.1	4869.6	4122.2	3539.5	3103.4	2719.8	2195.0	1918.2	1666.6	1454.9
47.5°	6992.2	5859.4	4858.7	4064.3	3436.4	2947.8	2549.7	2028.5	1737.2	1483.9	1277.6
50°	7068.2	5857.6	4831.6	4001.0	3284.4	2761.4	2374.2	1860.3	1570.7	1322.8	1134.6
52.5°	7088.1	5825.1	4773.7	3885.2	3099.8	2575.0	2186.0	1684.7	1424.1	1187.1	997.1
55°	7042.9	5745.4	4652.4	3691.6	2902.6	2377.8	2014.1	1547.2	1281.2	1056.8	908.4
57.5°	6914.4	5604.3	4424.4	3425.5	2694.5	2195.0	1816.8	1380.7	1125.6	937.4	814.3
60°	6675.6	5305.7	4067.9	3110.7	2430.3	1916.3	1545.4	1163.6	960.9	819.7	720.2
62.5°	6234.0	4837.0	3566.7	2676.4	2050.3	1554.4	1234.1	928.3	776.3	684.0	622.5
65°	5522.9	4131.3	2985.8	2108.2	1558.1	1131.0	917.5	698.5	588.1	532.0	513.9
67.5°	4507.7	3190.3	2171.5	1464.0	1055.0	792.6	638.8	510.3	457.8	436.1	428.9
70°	3277.2	2173.3	1406.0	924.7	696.7	553.7	483.2	410.8	381.8	376.4	376.4
72.5°	2057.5	1321.0	861.4	633.4	528.4	448.8	412.6	361.9	351.1	347.4	342.0
75°	1207.0	801.6	609.8	519.4	452.4	401.7	371.0	329.3	322.1	320.3	314.9
77.5°	769.1	577.3	492.2	443.3	409.0	363.7	336.6	293.2	291.3	289.5	287.7
80°	551.9	479.5	430.7	392.7	358.3	316.7	300.4	266.0	262.4	260.6	264.2
82.5°	418.0	396.3	376.4	347.4	300.4	269.6	257.0	233.4	235.2	226.2	224.4
85°	287.7	284.1	282.3	269.6	235.2	208.1	199.1	186.4	195.4	186.4	175.5
87.5°	141.1	139.3	128.5	152.0	141.1	112.2	101.3	112.2	124.9	121.2	112.2
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: P158854

CATALOG NUMBER: VTS-F12-LED-E1-SLL-7030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8
2.5°	2931.5	2924.3	2929.7	2926.1	2926.1	2924.3	2927.9	2922.5	2918.9	2922.5	2924.3
5°	2989.4	2980.4	2982.2	2969.5	2975.0	2962.3	2965.9	2956.9	2947.8	2944.2	2944.2
7.5°	3087.2	3078.1	3067.2	3065.4	3045.5	3038.3	3025.6	3018.4	3013.0	3000.3	2993.1
10°	3175.8	3161.3	3148.7	3146.9	3127.0	3108.9	3092.6	3078.1	3069.1	3051.0	3041.9
12.5°	3248.2	3233.7	3213.8	3203.0	3183.1	3161.3	3150.5	3128.8	3116.1	3096.2	3079.9
15°	3289.8	3264.5	3235.5	3215.6	3186.7	3163.2	3146.9	3130.6	3117.9	3092.6	3069.1
17.5°	3269.9	3228.3	3188.5	3152.3	3112.5	3090.8	3067.2	3047.3	3043.7	3014.8	2978.6
20°	3186.7	3137.8	3085.3	3036.5	2984.0	2953.2	2924.3	2893.5	2884.5	2850.1	2803.0
22.5°	3085.3	3029.2	2969.5	2909.8	2842.9	2799.4	2756.0	2718.0	2687.2	2636.6	2569.6
25°	2982.2	2899.0	2812.1	2736.1	2658.3	2604.0	2558.8	2517.1	2480.9	2399.5	2330.7
27.5°	2846.5	2716.2	2627.5	2540.7	2446.6	2376.0	2325.3	2267.4	2227.6	2133.5	2061.1
30°	2672.8	2542.5	2415.8	2328.9	2234.8	2158.8	2093.7	2010.4	1952.5	1883.8	1816.8
32.5°	2453.8	2323.5	2195.0	2097.3	2019.5	1925.4	1844.0	1764.3	1697.4	1630.4	1578.0
35°	2187.8	2061.1	1939.9	1842.2	1755.3	1681.1	1603.3	1534.5	1458.5	1386.1	1355.4
37.5°	1907.3	1771.6	1637.7	1552.6	1483.9	1431.4	1359.0	1302.9	1234.1	1190.7	1154.5
40°	1663.0	1518.2	1391.6	1319.2	1264.9	1205.2	1145.5	1102.0	1053.2	1009.7	982.6
42.5°	1456.7	1321.0	1212.4	1150.9	1085.8	1020.6	975.4	939.2	908.4	875.8	843.3
45°	1266.7	1136.4	1045.9	969.9	915.6	863.2	832.4	816.1	798.0	778.1	756.4
47.5°	1107.5	995.3	906.6	836.0	779.9	743.7	729.3	723.8	716.6	700.3	689.5
50°	986.2	893.9	803.5	740.1	693.1	675.0	658.7	653.3	644.2	638.8	631.5
52.5°	884.9	787.2	711.2	653.3	624.3	617.1	609.8	602.6	600.8	597.2	593.5
55°	801.6	716.6	646.0	602.6	588.1	582.7	580.9	573.6	571.8	571.8	566.4
57.5°	727.5	655.1	591.7	564.6	555.5	550.1	546.5	542.9	542.9	546.5	544.7
60°	651.5	589.9	551.9	537.4	532.0	523.0	513.9	510.3	512.1	521.2	521.2
62.5°	577.3	532.0	508.5	503.1	497.6	490.4	479.5	475.9	479.5	490.4	495.8
65°	495.8	475.9	468.7	465.1	461.4	456.0	448.8	445.2	447.0	452.4	459.6
67.5°	421.6	419.8	419.8	421.6	419.8	418.0	414.4	409.0	407.2	407.2	410.8
70°	376.4	376.4	381.8	381.8	380.0	380.0	374.6	369.2	365.5	361.9	363.7
72.5°	342.0	342.0	343.8	345.6	343.8	343.8	336.6	333.0	323.9	322.1	318.5
75°	313.1	309.4	309.4	307.6	305.8	307.6	300.4	291.3	287.7	285.9	282.3
77.5°	284.1	276.9	273.2	269.6	271.4	269.6	264.2	258.8	253.3	251.5	249.7
80°	251.5	240.7	235.2	226.2	231.6	233.4	229.8	224.4	222.6	220.8	219.0
82.5°	208.1	197.2	190.0	184.6	181.0	184.6	190.0	202.7	199.1	197.2	193.6
85°	162.9	144.8	135.7	137.5	128.5	130.3	146.6	153.8	153.8	157.4	153.8
87.5°	92.3	88.7	67.0	61.5	65.1	77.8	86.9	95.9	95.9	90.5	101.3
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: P158854

CATALOG NUMBER: VTS-F12-LED-E1-SLL-7030

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8
2.5°	2924.3	2927.9	2929.7	2937.0	2940.6	2942.4	2944.2	2947.8	2949.6	2947.8	2956.9
5°	2938.8	2938.8	2935.1	2940.6	2942.4	2942.4	2938.8	2942.4	2942.4	2942.4	2951.4
7.5°	2976.8	2965.9	2960.5	2953.2	2947.8	2940.6	2931.5	2931.5	2929.7	2931.5	2937.0
10°	3016.6	3000.3	2980.4	2962.3	2946.0	2933.3	2917.0	2911.6	2909.8	2908.0	2922.5
12.5°	3047.3	3018.4	2987.6	2956.9	2924.3	2902.6	2875.4	2859.1	2857.3	2857.3	2875.4
15°	3025.6	2978.6	2918.9	2864.6	2835.6	2804.9	2774.1	2754.2	2752.4	2756.0	2766.9
17.5°	2917.0	2841.0	2788.6	2736.1	2698.1	2672.8	2652.9	2649.2	2656.5	2649.2	2663.7
20°	2732.5	2651.0	2614.8	2573.2	2558.8	2540.7	2511.7	2486.4	2486.4	2453.8	2462.8
22.5°	2493.6	2448.4	2401.3	2368.7	2357.9	2327.1	2296.4	2262.0	2258.4	2218.6	2213.1
25°	2243.9	2198.6	2160.6	2153.4	2120.8	2079.2	2050.3	2010.4	2001.4	1961.6	1956.2
27.5°	1988.7	1952.5	1914.5	1892.8	1874.7	1829.5	1804.2	1757.1	1739.0	1695.6	1690.2
30°	1746.2	1720.9	1675.7	1657.6	1623.2	1570.7	1516.4	1487.5	1473.0	1427.8	1413.3
32.5°	1518.2	1478.4	1444.0	1422.3	1378.9	1319.2	1270.3	1228.7	1201.6	1147.3	1132.8
35°	1301.1	1261.3	1245.0	1188.9	1150.9	1111.1	1044.1	1018.8	969.9	928.3	913.8
37.5°	1109.3	1071.3	1049.6	1002.5	964.5	924.7	884.9	852.3	828.8	819.7	819.7
40°	944.6	924.7	897.6	863.2	837.8	808.9	787.2	776.3	774.5	778.1	787.2
42.5°	827.0	805.3	787.2	769.1	751.0	747.4	741.9	749.2	758.2	767.3	776.3
45°	738.3	720.2	709.4	702.1	700.3	705.7	716.6	727.5	743.7	754.6	761.8
47.5°	675.0	660.5	656.9	655.1	664.1	680.4	694.9	711.2	723.8	734.7	741.9
50°	620.7	608.0	606.2	604.4	617.1	631.5	644.2	665.9	675.0	682.2	687.6
52.5°	582.7	571.8	566.4	568.2	580.9	593.5	611.6	627.9	640.6	646.0	651.5
55°	551.9	548.3	535.6	541.1	553.7	570.0	588.1	606.2	618.9	627.9	637.0
57.5°	528.4	519.4	510.3	519.4	532.0	548.3	570.0	586.3	602.6	615.3	624.3
60°	503.1	495.8	488.6	497.6	510.3	526.6	542.9	564.6	584.5	597.2	606.2
62.5°	481.3	475.9	468.7	470.5	475.9	486.8	495.8	515.7	533.8	550.1	561.0
65°	450.6	448.8	437.9	439.7	443.3	454.2	461.4	479.5	497.6	512.1	521.2
67.5°	405.3	401.7	401.7	407.2	409.0	414.4	419.8	437.9	452.4	463.3	474.1
70°	360.1	358.3	358.3	361.9	360.1	365.5	372.8	389.1	407.2	418.0	428.9
72.5°	316.7	316.7	314.9	318.5	318.5	320.3	329.3	343.8	360.1	369.2	376.4
75°	278.7	276.9	276.9	276.9	278.7	278.7	287.7	300.4	316.7	322.1	333.0
77.5°	244.3	244.3	244.3	244.3	246.1	244.3	249.7	258.8	264.2	273.2	273.2
80°	215.3	213.5	215.3	217.2	217.2	215.3	215.3	217.2	219.0	219.0	219.0
82.5°	190.0	184.6	188.2	197.2	197.2	197.2	195.4	182.8	173.7	173.7	177.3
85°	152.0	152.0	153.8	166.5	168.3	161.1	168.3	150.2	132.1	126.7	130.3
87.5°	94.1	74.2	90.5	103.1	103.1	97.7	108.6	101.3	85.1	68.8	65.1
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: P158854  
 CATALOG NUMBER: VTS-F12-LED-E1-SLL-7030

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	0°
2.5°	2964.1	2965.9	2976.8	2982.2	2982.2	2989.4	2993.1	3003.9	3002.1	3002.1	3005.7	2.5°
5°	2960.5	2965.9	2976.8	2984.0	2987.6	2996.7	3003.9	3016.6	3014.8	3018.4	3020.2	5°
7.5°	2947.8	2962.3	2973.1	2987.6	3000.3	3007.5	3016.6	3027.4	3023.8	3025.6	3023.8	7.5°
10°	2937.0	2951.4	2973.1	2993.1	3011.1	3022.0	3027.4	3040.1	3038.3	3041.9	3041.9	10°
12.5°	2893.5	2918.9	2946.0	2976.8	3003.9	3032.9	3051.0	3078.1	3090.8	3107.1	3125.2	12.5°
15°	2783.1	2812.1	2855.5	2889.9	2942.4	2982.2	3034.7	3087.2	3134.2	3179.4	3231.9	15°
17.5°	2674.6	2687.2	2721.6	2768.7	2815.7	2875.4	2938.8	3032.9	3117.9	3210.2	3311.5	17.5°
20°	2473.7	2495.4	2518.9	2575.0	2631.1	2716.2	2794.0	2917.0	3041.9	3186.7	3342.3	20°
22.5°	2225.8	2247.5	2272.8	2336.2	2404.9	2491.8	2585.9	2723.4	2889.9	3078.1	3286.2	22.5°
25°	1958.0	1970.6	1990.5	2053.9	2095.5	2209.5	2323.5	2466.5	2647.4	2889.9	3132.4	25°
27.5°	1663.0	1686.5	1702.8	1731.8	1827.7	1925.4	2044.8	2198.6	2417.6	2665.5	2958.7	27.5°
30°	1380.7	1400.6	1391.6	1453.1	1516.4	1619.6	1748.1	1918.2	2128.1	2423.0	2761.4	30°
32.5°	1103.8	1118.3	1112.9	1156.3	1219.7	1322.8	1444.0	1628.6	1851.2	2166.1	2533.4	32.5°
35°	910.2	913.8	933.7	953.7	1007.9	1091.2	1194.3	1355.4	1583.4	1872.9	2262.0	35°
37.5°	819.7	827.0	839.6	866.8	906.6	966.3	1051.4	1176.2	1371.7	1626.8	1974.3	37.5°
40°	792.6	798.0	805.3	823.4	861.4	913.8	989.8	1094.8	1237.8	1453.1	1735.4	40°
42.5°	779.9	779.9	779.9	790.8	819.7	875.8	962.7	1065.8	1190.7	1353.6	1581.6	42.5°
45°	761.8	761.8	760.0	765.5	785.4	841.5	935.6	1051.4	1185.3	1340.9	1538.1	45°
47.5°	741.9	740.1	734.7	734.7	747.4	803.5	901.2	1026.0	1172.6	1351.8	1563.5	47.5°
50°	687.6	687.6	687.6	693.1	703.9	754.6	859.6	991.7	1159.9	1359.0	1603.3	50°
52.5°	656.9	658.7	664.1	664.1	675.0	727.5	837.8	984.4	1167.2	1386.1	1654.0	52.5°
55°	642.4	647.8	653.3	653.3	662.3	716.6	830.6	989.8	1194.3	1442.2	1740.8	55°
57.5°	629.7	635.2	638.8	638.8	646.0	693.1	810.7	980.8	1210.6	1496.5	1847.6	57.5°
60°	606.2	609.8	611.6	611.6	613.4	653.3	765.5	937.4	1174.4	1492.9	1905.5	60°
62.5°	562.8	570.0	571.8	573.6	573.6	611.6	707.5	866.8	1096.6	1438.6	1889.2	62.5°
65°	530.2	533.8	539.3	542.9	550.1	575.4	651.5	781.7	995.3	1330.0	1798.7	65°
67.5°	479.5	485.0	490.4	497.6	504.9	521.2	580.9	685.8	857.7	1145.5	1596.1	67.5°
70°	434.3	436.1	441.5	450.6	452.4	461.4	504.9	577.3	702.1	919.3	1284.8	70°
72.5°	378.2	381.8	389.1	399.9	399.9	407.2	432.5	470.5	550.1	702.1	948.2	72.5°
75°	329.3	333.0	338.4	338.4	329.3	331.2	349.2	376.4	436.1	528.4	691.3	75°
77.5°	273.2	280.5	285.9	275.1	271.4	276.9	285.9	305.8	349.2	419.8	519.4	77.5°
80°	226.2	229.8	231.6	233.4	229.8	235.2	242.5	255.2	284.1	338.4	410.8	80°
82.5°	181.0	184.6	190.0	197.2	197.2	217.2	219.0	219.0	235.2	269.6	322.1	82.5°
85°	133.9	141.1	148.4	157.4	159.2	170.1	164.7	162.9	168.3	200.9	222.6	85°
87.5°	68.8	74.2	77.8	85.1	76.0	79.6	79.6	74.2	65.1	81.4	90.5	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: P158854

NUMBER: VTS-F12-LED-E1-SLL-7030

**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
3023.8	3023.8	3023.8	3023.8	3023.8	3023.8	3023.8
3009.3	3005.7	3009.3	3009.3	3014.8	3011.1	3203.0
3023.8	3020.2	3023.8	3027.4	3032.9	3032.9	3244.6
3025.6	3025.6	3022.0	3031.1	3038.3	3045.5	3284.4
3047.3	3047.3	3051.0	3052.8	3069.1	3087.2	3349.5
3136.0	3145.1	3161.3	3166.8	3195.7	3215.6	3516.0
3271.7	3322.4	3355.0	3365.8	3391.2	3429.2	3796.5
3409.3	3494.3	3583.0	3637.3	3669.8	3715.1	4140.3
3512.4	3671.6	3823.7	3959.4	4037.2	4125.9	4621.7
3521.5	3774.8	4031.8	4283.3	4491.4	4656.1	5273.1
3434.6	3767.6	4122.2	4507.7	4866.0	5162.7	6022.3
3324.2	3733.2	4185.6	4677.8	5148.3	5586.2	6574.2
3184.9	3675.3	4196.4	4750.2	5302.1	5828.7	6889.1
2973.1	3503.4	4066.1	4677.8	5318.4	5959.0	7091.8
2701.7	3242.8	3820.0	4516.7	5242.4	6011.4	7261.9
2424.8	2958.7	3579.4	4301.4	5121.1	6002.4	7330.6
2131.7	2661.9	3297.1	4071.6	4956.5	5919.2	7318.0
1932.6	2415.8	3038.3	3838.1	4773.7	5808.8	7232.9
1816.8	2240.3	2833.8	3624.6	4607.2	5676.7	7126.1
1815.0	2187.8	2725.2	3472.6	4438.9	5530.1	6981.4
1878.3	2220.4	2712.6	3407.4	4346.6	5423.3	6823.9
1952.5	2310.8	2779.5	3431.0	4344.8	5376.3	6713.6
2070.2	2464.7	2926.1	3532.3	4391.9	5369.0	6577.8
2220.4	2672.8	3190.3	3782.0	4574.6	5512.0	6586.9
2374.2	2917.0	3535.9	4209.1	4934.7	5845.0	6872.8
2430.3	3105.2	3887.0	4710.3	5474.0	6344.4	7462.7
2381.4	3148.7	4100.5	5099.4	5998.8	6928.9	8166.7
2200.5	2973.1	4013.7	5209.8	6301.0	7343.3	8870.6
1811.4	2537.0	3619.2	4961.9	6277.4	7428.3	9123.9
1328.2	1967.0	2942.4	4216.3	5580.8	6896.3	8743.9
959.1	1391.6	2124.5	3175.8	4411.8	5553.6	7334.2
687.6	964.5	1378.9	2086.5	3005.7	3867.1	5227.9
494.0	655.1	859.6	1252.2	1831.3	2374.2	3284.4
363.7	448.8	564.6	778.1	1078.5	1382.5	1977.9
247.9	264.2	340.2	459.6	707.5	1017.0	1342.7
94.1	106.8	124.9	188.2	316.7	363.7	257.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)