

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: P158810

Luminaire Tested: **VTS-E08-LED-E1-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158810
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-E08-LED-E1-SLL
Description: VENTUS LED SITE LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (168) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

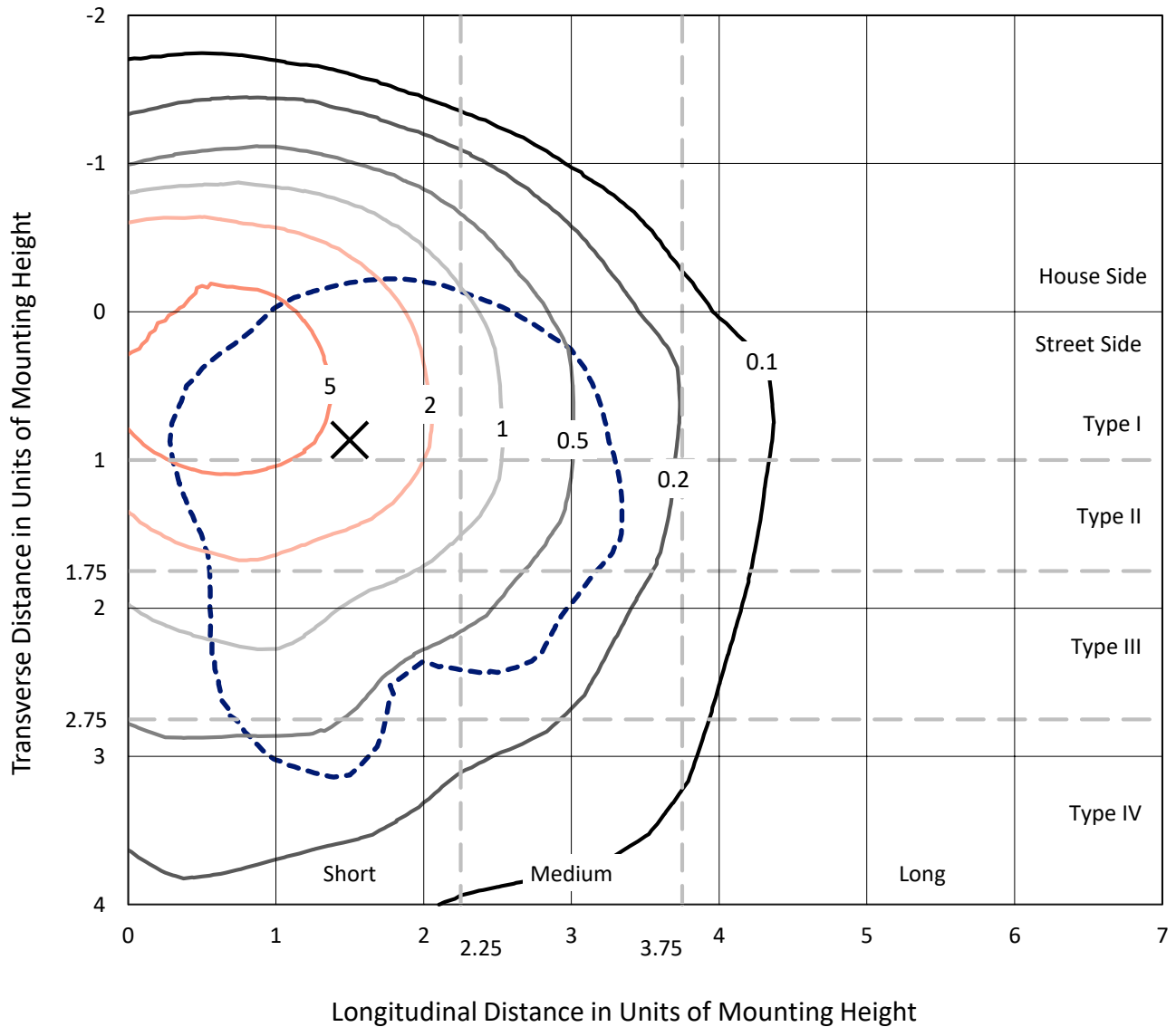
Lumens per Lamp: N/A
Luminaire Lumens: 21498.3 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 194.5
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

REPORT NUMBER: P158810
 CATALOG NUMBER: VTS-E08-LED-E1-SLL

Iso-Footcandle Lines of Horizontal Illumination

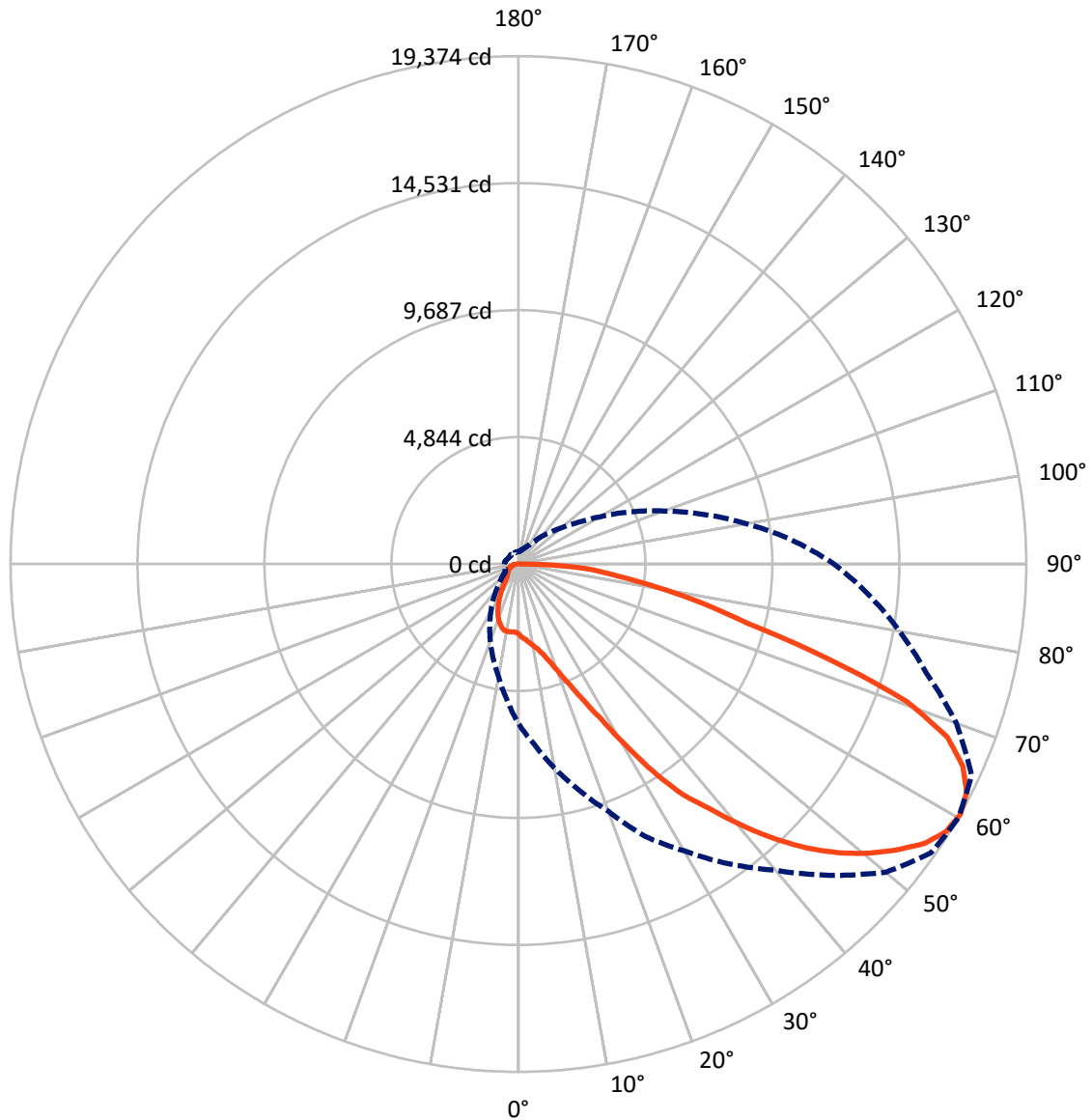
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P158810
CATALOG NUMBER: VTS-E08-LED-E1-SLL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P158810

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4840.7	0.0	4840.7
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	16657.5	0.0	16657.5
	% Fixture	77.5	0.0	77.5
Total	Lumens	21498.3	0.0	21498.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.8	1.2
10°-20°	851.7	4.0
20°-30°	1616.1	7.5
30°-40°	2545.1	11.8
40°-50°	3552.3	16.5
50°-60°	4393.4	20.4
60°-70°	4553.9	21.2
70°-80°	2865.5	13.3
80°-90°	856.6	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°	21498.3	100.0
0°-180°	21498.3	100.0



REPORT NUMBER: P158810

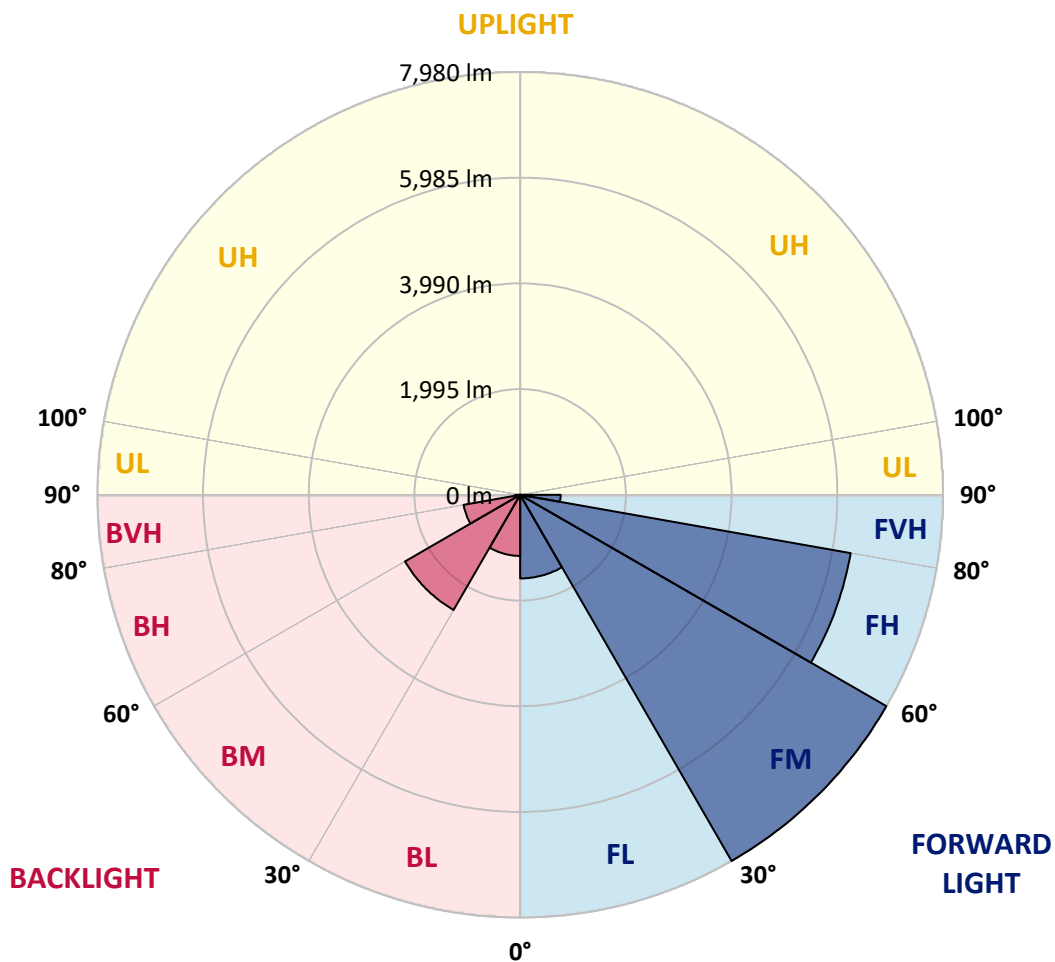
CATALOG NUMBER: VTS-E08-LED-E1-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1578.3	7.3			
FM	(30°-60°)	7980.5	37.1			
FH	(60°-80°)	6335.3	29.5			G3/7500
FVH	(80°-90°)	763.4	3.6			G5
BL	(0°-30°)	1153.2	5.4	B3/2500		
BM	(30°-60°)	2510.2	11.7	B3/5000		
BH	(60°-80°)	1084.1	5.0	B3/2500		G3/2500
BVH	(80°-90°)	93.2	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





REPORT NUMBER: P158810
 CATALOG NUMBER: VTS-E08-LED-E1-SLL

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6
2.5°	2832.0	2828.8	2828.8	2828.8	2827.2	2824.0	2828.8	2827.2	2819.2	2814.4	2819.2
5°	2868.8	2870.4	2875.2	2876.8	2876.8	2881.6	2894.4	2896.0	2894.4	2897.6	2905.6
7.5°	2904.0	2912.0	2916.8	2924.8	2934.4	2942.4	2964.8	2987.2	3001.6	3012.8	3016.0
10°	2961.6	2974.4	2988.8	3009.6	3032.0	3072.0	3091.2	3113.6	3128.0	3150.4	3155.2
12.5°	3108.8	3124.8	3134.4	3166.4	3195.2	3233.6	3260.8	3267.2	3300.8	3320.0	3342.4
15°	3356.8	3380.8	3414.4	3433.6	3465.6	3499.2	3523.2	3555.2	3560.0	3585.6	3603.2
17.5°	3660.8	3694.4	3763.2	3809.6	3851.2	3884.8	3932.8	3969.6	3977.6	4006.4	3969.6
20°	4086.4	4168.0	4179.2	4272.0	4308.8	4376.0	4472.0	4489.6	4536.0	4489.6	4462.4
22.5°	4662.4	4790.4	4825.6	4915.2	4960.0	5062.4	5091.2	5185.6	5217.6	5182.4	5108.8
25°	5324.8	5523.2	5625.6	5763.2	5785.6	5995.2	6017.6	6128.0	6068.8	5984.0	5985.6
27.5°	5812.8	6150.4	6414.4	6649.6	6814.4	7051.2	7235.2	7286.4	7230.4	7120.0	7081.6
30°	6091.2	6473.6	6852.8	7177.6	7561.6	7923.2	8299.2	8486.4	8518.4	8576.0	8344.0
32.5°	6270.4	6761.6	7212.8	7614.4	8008.0	8473.6	8977.6	9459.2	9864.0	10169.6	10025.6
35°	6420.8	7027.2	7604.8	8091.2	8556.8	9064.0	9572.8	10140.8	10811.2	11203.2	11284.8
37.5°	6481.6	7222.4	7929.6	8553.6	9208.0	9779.2	10284.8	10790.4	11494.4	12193.6	12409.6
40°	6470.4	7318.4	8123.2	8907.2	9708.8	10422.4	11014.4	11612.8	12436.8	13254.4	13606.4
42.5°	6395.2	7332.8	8246.4	9142.4	10056.0	11004.8	11761.6	12451.2	13241.6	14289.6	14787.2
45°	6300.8	7283.2	8272.0	9262.4	10313.6	11411.2	12368.0	13220.8	14147.2	15182.4	15784.0
47.5°	6172.8	7204.8	8240.0	9304.0	10428.8	11672.0	12796.8	13822.4	14841.6	16033.6	16796.8
50°	6033.6	7092.8	8174.4	9273.6	10457.6	11814.4	13041.6	14209.6	15400.0	16686.4	17651.2
52.5°	5936.0	6972.8	8115.2	9211.2	10428.8	11857.6	13131.2	14417.6	15742.4	17072.0	18224.0
55°	5816.0	6812.8	7956.8	9065.6	10323.2	11833.6	13121.6	14489.6	15836.8	17220.8	18536.0
57.5°	5824.0	6739.2	7822.4	8891.2	10107.2	11611.2	12940.8	14417.6	15688.0	17124.8	18547.2
60°	6076.8	6897.6	7892.8	8926.4	10043.2	11470.4	12633.6	13953.6	15251.2	16793.6	18288.0
62.5°	6598.4	7350.4	8254.4	9278.4	10403.2	11752.0	12494.4	13182.4	14334.4	16184.0	17846.4
65°	7220.8	7899.2	8683.2	9657.6	10918.4	12209.6	12416.0	12555.2	13137.6	14998.4	17017.6
67.5°	7843.2	8449.6	9065.6	9873.6	11211.2	12340.8	12096.0	11764.8	12078.4	13620.8	15388.8
70°	8067.2	8872.0	9276.8	9832.0	10988.8	12035.2	11579.2	10745.6	10854.4	12256.0	13548.8
72.5°	7731.2	8878.4	9012.8	9219.2	9998.4	10982.4	10500.8	9428.8	9406.4	10476.8	11521.6
75°	6484.8	8099.2	8097.6	8020.8	8196.8	8756.8	8507.2	7860.8	8134.4	8977.6	9321.6
77.5°	4622.4	6320.0	6400.0	5883.2	5870.4	6123.2	6273.6	7025.6	8017.6	8491.2	8382.4
80°	2904.0	4264.0	4608.0	3969.6	3833.6	4192.0	5121.6	6216.0	7436.8	7862.4	7496.0
82.5°	1748.8	2747.2	3480.0	3118.4	3086.4	3739.2	4766.4	5192.0	5558.4	6011.2	5398.4
85°	1187.2	1830.4	2380.8	2452.8	2732.8	3408.0	3854.4	3665.6	3675.2	3556.8	3240.0
87.5°	227.2	499.2	816.0	995.2	1104.0	1483.2	1612.8	1460.8	1542.4	1128.0	1233.6
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: P158810
 CATALOG NUMBER: VTS-E08-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6
2.5°	2811.2	2811.2	2811.2	2803.2	2804.8	2793.6	2788.8	2788.8	2784.0	2784.0	2782.4
5°	2899.2	2889.6	2894.4	2892.8	2892.8	2876.8	2868.8	2868.8	2848.0	2849.6	2843.2
7.5°	3030.4	3028.8	3033.6	3024.0	3011.2	2998.4	2985.6	2979.2	2950.4	2932.8	2921.6
10°	3179.2	3177.6	3182.4	3180.8	3158.4	3134.4	3099.2	3073.6	3038.4	3011.2	2984.0
12.5°	3342.4	3340.8	3337.6	3323.2	3299.2	3260.8	3216.0	3172.8	3120.0	3084.8	3044.8
15°	3596.8	3592.0	3572.8	3552.0	3526.4	3467.2	3388.8	3326.4	3256.0	3195.2	3129.6
17.5°	3972.8	3932.8	3929.6	3883.2	3814.4	3736.0	3662.4	3558.4	3457.6	3366.4	3276.8
20°	4491.2	4398.8	4372.8	4320.0	4228.8	4147.2	3987.2	3848.0	3710.4	3585.6	3472.0
22.5°	5056.0	4988.8	4926.4	4840.0	4715.2	4596.8	4393.6	4219.2	4043.2	3883.2	3756.8
25°	5844.8	5728.0	5616.0	5478.4	5305.6	5164.8	4932.8	4756.8	4526.4	4380.8	4198.4
27.5°	6864.0	6664.0	6475.2	6356.8	6052.8	5848.0	5552.0	5324.8	5046.4	4849.6	4633.6
30°	8190.4	7958.4	7678.4	7268.8	6907.2	6500.8	6134.4	5843.2	5547.2	5272.0	5022.4
32.5°	9835.2	9425.6	8982.4	8332.8	7739.2	7160.0	6672.0	6313.6	6011.2	5668.8	5316.8
35°	11225.6	10803.2	10174.4	9348.8	8616.0	7953.6	7369.6	6880.0	6484.8	6051.2	5585.6
37.5°	12323.2	11841.6	11251.2	10374.4	9600.0	8846.4	8233.6	7609.6	7091.2	6494.4	5905.6
40°	13580.8	13097.6	12448.0	11539.2	10622.4	9804.8	9086.4	8441.6	7804.8	7076.8	6320.0
42.5°	14676.8	14328.0	13670.4	12731.2	11715.2	10804.8	10019.2	9281.6	8449.6	7635.2	6739.2
45°	15819.2	15464.0	14840.0	13857.6	12777.6	11763.2	10824.0	10030.4	9048.0	8078.4	7052.8
47.5°	16828.8	16464.0	15833.6	14857.6	13710.4	12641.6	11608.0	10648.0	9507.2	8393.6	7257.6
50°	17792.0	17345.6	16768.0	15795.2	14569.6	13427.2	12305.6	11073.6	9864.0	8614.4	7396.8
52.5°	18676.8	18108.8	17561.6	16560.0	15235.2	14041.6	12790.4	11435.2	10083.2	8788.8	7491.2
55°	19179.2	18812.8	18158.4	17174.4	15708.8	14464.0	13097.6	11689.6	10300.8	8912.0	7531.2
57.5°	19334.4	19244.8	18696.0	17529.6	15987.2	14696.0	13305.6	11891.2	10446.4	8947.2	7475.2
60°	19211.2	19374.4	19073.6	17779.2	16113.6	14764.8	13408.0	12035.2	10472.0	8835.2	7305.6
62.5°	18816.0	19187.2	19148.8	17862.4	16048.0	14678.4	13396.8	11961.6	10232.0	8486.4	6924.8
65°	18166.4	18633.6	18798.4	17553.6	15678.4	14363.2	13112.0	11499.2	9564.8	7804.8	6286.4
67.5°	16944.0	17651.2	17811.2	16542.4	14712.0	13491.2	12291.2	10539.2	8329.6	6750.4	5289.6
70°	14494.4	15731.2	15947.2	14616.0	13008.0	11936.0	10918.4	9017.6	6936.0	5414.4	4059.2
72.5°	11571.2	12348.8	12790.4	11873.6	10676.8	9899.2	9128.0	6918.4	5233.6	3995.2	2793.6
75°	9046.4	9000.0	9395.2	8785.6	8081.6	7718.4	7139.2	4827.2	3505.6	2646.4	1768.0
77.5°	7734.4	7139.2	6689.6	6260.8	5843.2	5728.0	5172.8	2995.2	2166.4	1585.6	1057.6
80°	6428.8	5342.4	4521.6	3918.4	3769.6	3996.8	3385.6	1766.4	1283.2	910.4	664.0
82.5°	4593.6	3843.2	3128.0	2745.6	2491.2	2852.8	1996.8	980.8	696.0	545.6	440.0
85°	2977.6	2846.4	2816.0	2691.2	2382.4	2249.6	1516.8	844.8	521.6	339.2	273.6
87.5°	1145.6	1468.8	1694.4	1816.0	1963.2	1748.8	790.4	291.2	286.4	176.0	132.8
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: P158810

CATALOG NUMBER: VTS-E08-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6
2.5°	2771.2	2764.8	2763.2	2758.4	2755.2	2755.2	2747.2	2601.6	2600.0	2600.0	2598.4
5°	2830.4	2822.4	2814.4	2812.8	2806.4	2806.4	2798.4	2652.8	2652.8	2652.8	2649.6
7.5°	2910.4	2894.4	2884.8	2880.0	2870.4	2875.2	2881.6	2734.4	2736.0	2734.4	2737.6
10°	2968.0	2958.4	2947.2	2944.0	2937.6	2942.4	2952.0	2806.4	2811.2	2812.8	2816.0
12.5°	3024.0	3008.0	2993.6	2988.8	2985.6	2998.4	3009.6	2868.8	2873.6	2878.4	2878.4
15°	3092.8	3065.6	3046.4	3035.2	3028.8	3041.6	3057.6	2918.4	2920.0	2924.8	2923.2
17.5°	3209.6	3169.6	3124.8	3116.8	3096.0	3100.8	3104.0	2948.8	2942.4	2931.2	2912.0
20°	3390.4	3329.6	3268.8	3243.2	3201.6	3184.0	3148.8	2950.4	2910.4	2876.8	2848.0
22.5°	3649.6	3560.0	3494.4	3451.2	3366.4	3307.2	3211.2	2942.4	2867.2	2809.6	2764.8
25°	4068.8	3961.6	3860.8	3752.0	3619.2	3500.8	3360.0	3012.8	2896.0	2796.8	2710.4
27.5°	4476.8	4307.2	4152.0	3988.8	3801.6	3624.0	3425.6	3035.2	2902.4	2774.4	2633.6
30°	4782.4	4536.0	4300.8	4062.4	3817.6	3587.2	3363.2	2958.4	2800.0	2656.0	2507.2
32.5°	4968.0	4648.0	4342.4	4046.4	3758.4	3499.2	3248.0	2825.6	2651.2	2481.6	2323.2
35°	5144.0	4747.2	4368.0	4019.2	3689.6	3401.6	3131.2	2670.4	2462.4	2281.6	2081.6
37.5°	5361.6	4851.2	4384.0	3969.6	3588.8	3259.2	2961.6	2475.2	2267.2	2044.8	1856.0
40°	5622.4	4958.4	4368.0	3870.4	3432.0	3072.0	2756.8	2270.4	2038.4	1822.4	1636.8
42.5°	5870.4	5052.8	4326.4	3737.6	3260.8	2876.8	2569.6	2088.0	1856.0	1635.2	1451.2
45°	6054.4	5132.8	4305.6	3644.8	3129.6	2744.0	2404.8	1940.8	1696.0	1473.6	1286.4
47.5°	6182.4	5180.8	4296.0	3593.6	3038.4	2606.4	2254.4	1793.6	1536.0	1312.0	1129.6
50°	6249.6	5179.2	4272.0	3537.6	2904.0	2441.6	2099.2	1644.8	1388.8	1169.6	1003.2
52.5°	6267.2	5150.4	4220.8	3435.2	2740.8	2276.8	1932.8	1489.6	1259.2	1049.6	881.6
55°	6227.2	5080.0	4113.6	3264.0	2566.4	2102.4	1780.8	1368.0	1132.8	934.4	803.2
57.5°	6113.6	4955.2	3912.0	3028.8	2382.4	1940.8	1606.4	1220.8	995.2	828.8	720.0
60°	5902.4	4691.2	3596.8	2750.4	2148.8	1694.4	1366.4	1028.8	849.6	724.8	636.8
62.5°	5512.0	4276.8	3153.6	2366.4	1812.8	1374.4	1091.2	820.8	686.4	604.8	550.4
65°	4883.2	3652.8	2640.0	1864.0	1377.6	1000.0	811.2	617.6	520.0	470.4	454.4
67.5°	3985.6	2820.8	1920.0	1294.4	932.8	700.8	564.8	451.2	404.8	385.6	379.2
70°	2897.6	1921.6	1243.2	817.6	616.0	489.6	427.2	363.2	337.6	332.8	332.8
72.5°	1819.2	1168.0	761.6	560.0	467.2	396.8	364.8	320.0	310.4	307.2	302.4
75°	1067.2	708.8	539.2	459.2	400.0	355.2	328.0	291.2	284.8	283.2	278.4
77.5°	680.0	510.4	435.2	392.0	361.6	321.6	297.6	259.2	257.6	256.0	254.4
80°	488.0	424.0	380.8	347.2	316.8	280.0	265.6	235.2	232.0	230.4	233.6
82.5°	369.6	350.4	332.8	307.2	265.6	238.4	227.2	206.4	208.0	200.0	198.4
85°	254.4	251.2	249.6	238.4	208.0	184.0	176.0	164.8	172.8	164.8	155.2
87.5°	124.8	123.2	113.6	134.4	124.8	99.2	89.6	99.2	110.4	107.2	99.2
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: P158810

CATALOG NUMBER: VTS-E08-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6
2.5°	2592.0	2585.6	2590.4	2587.2	2587.2	2585.6	2588.8	2584.0	2580.8	2584.0	2585.6
5°	2643.2	2635.2	2636.8	2625.6	2630.4	2619.2	2622.4	2614.4	2606.4	2603.2	2603.2
7.5°	2729.6	2721.6	2712.0	2710.4	2692.8	2686.4	2675.2	2668.8	2664.0	2652.8	2646.4
10°	2808.0	2795.2	2784.0	2782.4	2764.8	2748.8	2734.4	2721.6	2713.6	2697.6	2689.6
12.5°	2872.0	2859.2	2841.6	2832.0	2814.4	2795.2	2785.6	2766.4	2755.2	2737.6	2723.2
15°	2908.8	2886.4	2860.8	2843.2	2817.6	2796.8	2782.4	2768.0	2756.8	2734.4	2713.6
17.5°	2891.2	2854.4	2819.2	2787.2	2752.0	2732.8	2712.0	2694.4	2691.2	2665.6	2633.6
20°	2817.6	2774.4	2728.0	2684.8	2638.4	2611.2	2585.6	2558.4	2550.4	2520.0	2478.4
22.5°	2728.0	2678.4	2625.6	2572.8	2513.6	2475.2	2436.8	2403.2	2376.0	2331.2	2272.0
25°	2636.8	2563.2	2486.4	2419.2	2350.4	2302.4	2262.4	2225.6	2193.6	2121.6	2060.8
27.5°	2516.8	2401.6	2323.2	2246.4	2163.2	2100.8	2056.0	2004.8	1969.6	1886.4	1822.4
30°	2363.2	2248.0	2136.0	2059.2	1976.0	1908.8	1851.2	1777.6	1726.4	1665.6	1606.4
32.5°	2169.6	2054.4	1940.8	1854.4	1785.6	1702.4	1630.4	1560.0	1500.8	1441.6	1395.2
35°	1934.4	1822.4	1715.2	1628.8	1552.0	1486.4	1417.6	1356.8	1289.6	1225.6	1198.4
37.5°	1686.4	1566.4	1448.0	1372.8	1312.0	1265.6	1201.6	1152.0	1091.2	1052.8	1020.8
40°	1470.4	1342.4	1230.4	1166.4	1118.4	1065.6	1012.8	974.4	931.2	892.8	868.8
42.5°	1288.0	1168.0	1072.0	1017.6	960.0	902.4	862.4	830.4	803.2	774.4	745.6
45°	1120.0	1004.8	924.8	857.6	809.6	763.2	736.0	721.6	705.6	688.0	668.8
47.5°	979.2	880.0	801.6	739.2	689.6	657.6	644.8	640.0	633.6	619.2	609.6
50°	872.0	790.4	710.4	654.4	612.8	596.8	582.4	577.6	569.6	564.8	558.4
52.5°	782.4	696.0	628.8	577.6	552.0	545.6	539.2	532.8	531.2	528.0	524.8
55°	708.8	633.6	571.2	532.8	520.0	515.2	513.6	507.2	505.6	505.6	500.8
57.5°	643.2	579.2	523.2	499.2	491.2	486.4	483.2	480.0	480.0	483.2	481.6
60°	576.0	521.6	488.0	475.2	470.4	462.4	454.4	451.2	452.8	460.8	460.8
62.5°	510.4	470.4	449.6	444.8	440.0	433.6	424.0	420.8	424.0	433.6	438.4
65°	438.4	420.8	414.4	411.2	408.0	403.2	396.8	393.6	395.2	400.0	406.4
67.5°	372.8	371.2	371.2	372.8	371.2	369.6	366.4	361.6	360.0	360.0	363.2
70°	332.8	332.8	337.6	337.6	336.0	336.0	331.2	326.4	323.2	320.0	321.6
72.5°	302.4	302.4	304.0	305.6	304.0	304.0	297.6	294.4	286.4	284.8	281.6
75°	276.8	273.6	273.6	272.0	270.4	272.0	265.6	257.6	254.4	252.8	249.6
77.5°	251.2	244.8	241.6	238.4	240.0	238.4	233.6	228.8	224.0	222.4	220.8
80°	222.4	212.8	208.0	200.0	204.8	206.4	203.2	198.4	196.8	195.2	193.6
82.5°	184.0	174.4	168.0	163.2	160.0	163.2	168.0	179.2	176.0	174.4	171.2
85°	144.0	128.0	120.0	121.6	113.6	115.2	129.6	136.0	136.0	139.2	136.0
87.5°	81.6	78.4	59.2	54.4	57.6	68.8	76.8	84.8	84.8	80.0	89.6
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: P158810
 CATALOG NUMBER: VTS-E08-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6
2.5°	2585.6	2588.8	2590.4	2596.8	2600.0	2601.6	2603.2	2606.4	2608.0	2606.4	2614.4
5°	2598.4	2598.4	2595.2	2600.0	2601.6	2601.6	2598.4	2601.6	2601.6	2601.6	2609.6
7.5°	2632.0	2622.4	2617.6	2611.2	2606.4	2600.0	2592.0	2592.0	2590.4	2592.0	2596.8
10°	2667.2	2652.8	2635.2	2619.2	2604.8	2593.6	2579.2	2574.4	2572.8	2571.2	2584.0
12.5°	2694.4	2668.8	2641.6	2614.4	2585.6	2566.4	2542.4	2528.0	2526.4	2526.4	2542.4
15°	2675.2	2633.6	2580.8	2532.8	2507.2	2480.0	2452.8	2435.2	2433.6	2436.8	2446.4
17.5°	2579.2	2512.0	2465.6	2419.2	2385.6	2363.2	2345.6	2342.4	2348.8	2342.4	2355.2
20°	2416.0	2344.0	2312.0	2275.2	2262.4	2246.4	2220.8	2198.4	2198.4	2169.6	2177.6
22.5°	2204.8	2164.8	2123.2	2094.4	2084.8	2057.6	2030.4	2000.0	1996.8	1961.6	1956.8
25°	1984.0	1944.0	1910.4	1904.0	1875.2	1838.4	1812.8	1777.6	1769.6	1734.4	1729.6
27.5°	1758.4	1726.4	1692.8	1673.6	1657.6	1617.6	1595.2	1553.6	1537.6	1499.2	1494.4
30°	1544.0	1521.6	1481.6	1465.6	1435.2	1388.8	1340.8	1315.2	1302.4	1262.4	1249.6
32.5°	1342.4	1307.2	1276.8	1257.6	1219.2	1166.4	1123.2	1086.4	1062.4	1014.4	1001.6
35°	1150.4	1115.2	1100.8	1051.2	1017.6	982.4	923.2	900.8	857.6	820.8	808.0
37.5°	980.8	947.2	928.0	886.4	852.8	817.6	782.4	753.6	732.8	724.8	724.8
40°	835.2	817.6	793.6	763.2	740.8	715.2	696.0	686.4	684.8	688.0	696.0
42.5°	731.2	712.0	696.0	680.0	664.0	660.8	656.0	662.4	670.4	678.4	686.4
45°	652.8	636.8	627.2	620.8	619.2	624.0	633.6	643.2	657.6	667.2	673.6
47.5°	596.8	584.0	580.8	579.2	587.2	601.6	614.4	628.8	640.0	649.6	656.0
50°	548.8	537.6	536.0	534.4	545.6	558.4	569.6	588.8	596.8	603.2	608.0
52.5°	515.2	505.6	500.8	502.4	513.6	524.8	540.8	555.2	566.4	571.2	576.0
55°	488.0	484.8	473.6	478.4	489.6	504.0	520.0	536.0	547.2	555.2	563.2
57.5°	467.2	459.2	451.2	459.2	470.4	484.8	504.0	518.4	532.8	544.0	552.0
60°	444.8	438.4	432.0	440.0	451.2	465.6	480.0	499.2	516.8	528.0	536.0
62.5°	425.6	420.8	414.4	416.0	420.8	430.4	438.4	456.0	472.0	486.4	496.0
65°	398.4	396.8	387.2	388.8	392.0	401.6	408.0	424.0	440.0	452.8	460.8
67.5°	358.4	355.2	355.2	360.0	361.6	366.4	371.2	387.2	400.0	409.6	419.2
70°	318.4	316.8	316.8	320.0	318.4	323.2	329.6	344.0	360.0	369.6	379.2
72.5°	280.0	280.0	278.4	281.6	281.6	283.2	291.2	304.0	318.4	326.4	332.8
75°	246.4	244.8	244.8	244.8	246.4	246.4	254.4	265.6	280.0	284.8	294.4
77.5°	216.0	216.0	216.0	216.0	217.6	216.0	220.8	228.8	233.6	241.6	241.6
80°	190.4	188.8	190.4	192.0	192.0	190.4	190.4	192.0	193.6	193.6	193.6
82.5°	168.0	163.2	166.4	174.4	174.4	174.4	172.8	161.6	153.6	153.6	156.8
85°	134.4	134.4	136.0	147.2	148.8	142.4	148.8	132.8	116.8	112.0	115.2
87.5°	83.2	65.6	80.0	91.2	91.2	86.4	96.0	89.6	75.2	60.8	57.6
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: P158810
 CATALOG NUMBER: VTS-E08-LED-E1-SLL

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	0°
2.5°	2620.8	2622.4	2632.0	2636.8	2636.8	2643.2	2646.4	2656.0	2654.4	2654.4	2657.6	2.5°
5°	2617.6	2622.4	2632.0	2638.4	2641.6	2649.6	2656.0	2667.2	2665.6	2668.8	2670.4	5°
7.5°	2606.4	2619.2	2628.8	2641.6	2652.8	2659.2	2667.2	2676.8	2673.6	2675.2	2673.6	7.5°
10°	2596.8	2609.6	2628.8	2646.4	2662.4	2672.0	2676.8	2688.0	2686.4	2689.6	2689.6	10°
12.5°	2558.4	2580.8	2604.8	2632.0	2656.0	2681.6	2697.6	2721.6	2732.8	2747.2	2763.2	12.5°
15°	2460.8	2486.4	2524.8	2555.2	2601.6	2636.8	2683.2	2729.6	2771.2	2811.2	2857.6	15°
17.5°	2364.8	2376.0	2406.4	2448.0	2489.6	2542.4	2598.4	2681.6	2756.8	2838.4	2928.0	17.5°
20°	2187.2	2206.4	2227.2	2276.8	2326.4	2401.6	2470.4	2579.2	2689.6	2817.6	2955.2	20°
22.5°	1968.0	1987.2	2009.6	2065.6	2126.4	2203.2	2286.4	2408.0	2555.2	2721.6	2905.6	22.5°
25°	1731.2	1742.4	1760.0	1816.0	1852.8	1953.6	2054.4	2180.8	2340.8	2555.2	2769.6	25°
27.5°	1470.4	1491.2	1505.6	1531.2	1616.0	1702.4	1808.0	1944.0	2137.6	2356.8	2616.0	27.5°
30°	1220.8	1238.4	1230.4	1284.8	1340.8	1432.0	1545.6	1696.0	1881.6	2142.4	2441.6	30°
32.5°	976.0	988.8	984.0	1022.4	1078.4	1169.6	1276.8	1440.0	1636.8	1915.2	2240.0	32.5°
35°	804.8	808.0	825.6	843.2	891.2	964.8	1056.0	1198.4	1400.0	1656.0	2000.0	35°
37.5°	724.8	731.2	742.4	766.4	801.6	854.4	929.6	1040.0	1212.8	1438.4	1745.6	37.5°
40°	700.8	705.6	712.0	728.0	761.6	808.0	875.2	968.0	1094.4	1284.8	1534.4	40°
42.5°	689.6	689.6	689.6	699.2	724.8	774.4	851.2	942.4	1052.8	1196.8	1398.4	42.5°
45°	673.6	673.6	672.0	676.8	694.4	744.0	827.2	929.6	1048.0	1185.6	1360.0	45°
47.5°	656.0	654.4	649.6	649.6	660.8	710.4	796.8	907.2	1036.8	1195.2	1382.4	47.5°
50°	608.0	608.0	608.0	612.8	622.4	667.2	760.0	876.8	1025.6	1201.6	1417.6	50°
52.5°	580.8	582.4	587.2	587.2	596.8	643.2	740.8	870.4	1032.0	1225.6	1462.4	52.5°
55°	568.0	572.8	577.6	577.6	585.6	633.6	734.4	875.2	1056.0	1275.2	1539.2	55°
57.5°	556.8	561.6	564.8	564.8	571.2	612.8	716.8	867.2	1070.4	1323.2	1633.6	57.5°
60°	536.0	539.2	540.8	540.8	542.4	577.6	676.8	828.8	1038.4	1320.0	1684.8	60°
62.5°	497.6	504.0	505.6	507.2	507.2	540.8	625.6	766.4	969.6	1272.0	1670.4	62.5°
65°	468.8	472.0	476.8	480.0	486.4	508.8	576.0	691.2	880.0	1176.0	1590.4	65°
67.5°	424.0	428.8	433.6	440.0	446.4	460.8	513.6	606.4	758.4	1012.8	1411.2	67.5°
70°	384.0	385.6	390.4	398.4	400.0	408.0	446.4	510.4	620.8	812.8	1136.0	70°
72.5°	334.4	337.6	344.0	353.6	353.6	360.0	382.4	416.0	486.4	620.8	838.4	72.5°
75°	291.2	294.4	299.2	299.2	291.2	292.8	308.8	332.8	385.6	467.2	611.2	75°
77.5°	241.6	248.0	252.8	243.2	240.0	244.8	252.8	270.4	308.8	371.2	459.2	77.5°
80°	200.0	203.2	204.8	206.4	203.2	208.0	214.4	225.6	251.2	299.2	363.2	80°
82.5°	160.0	163.2	168.0	174.4	174.4	192.0	193.6	193.6	208.0	238.4	284.8	82.5°
85°	118.4	124.8	131.2	139.2	140.8	150.4	145.6	144.0	148.8	177.6	196.8	85°
87.5°	60.8	65.6	68.8	75.2	67.2	70.4	70.4	65.6	57.6	72.0	80.0	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: P158810

NUMBER: VTS-E08-LED-E1-SLL

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
2673.6	2673.6	2673.6	2673.6	2673.6	2673.6	2673.6
2660.8	2657.6	2660.8	2660.8	2665.6	2662.4	2832.0
2673.6	2670.4	2673.6	2676.8	2681.6	2681.6	2868.8
2675.2	2675.2	2672.0	2680.0	2686.4	2692.8	2904.0
2694.4	2694.4	2697.6	2699.2	2713.6	2729.6	2961.6
2772.8	2780.8	2795.2	2800.0	2825.6	2843.2	3108.8
2892.8	2937.6	2966.4	2976.0	2998.4	3032.0	3356.8
3014.4	3089.6	3168.0	3216.0	3244.8	3284.8	3660.8
3105.6	3246.4	3380.8	3500.8	3569.6	3648.0	4086.4
3113.6	3337.6	3564.8	3787.2	3971.2	4116.8	4662.4
3036.8	3331.2	3644.8	3985.6	4302.4	4564.8	5324.8
2939.2	3300.8	3700.8	4136.0	4552.0	4939.2	5812.8
2816.0	3249.6	3710.4	4200.0	4688.0	5153.6	6091.2
2628.8	3097.6	3595.2	4136.0	4702.4	5268.8	6270.4
2388.8	2867.2	3377.6	3993.6	4635.2	5315.2	6420.8
2144.0	2616.0	3164.8	3803.2	4528.0	5307.2	6481.6
1884.8	2353.6	2915.2	3600.0	4382.4	5233.6	6470.4
1708.8	2136.0	2686.4	3393.6	4220.8	5136.0	6395.2
1606.4	1980.8	2505.6	3204.8	4073.6	5019.2	6300.8
1604.8	1934.4	2409.6	3070.4	3924.8	4889.6	6172.8
1660.8	1963.2	2398.4	3012.8	3843.2	4795.2	6033.6
1726.4	2043.2	2457.6	3033.6	3841.6	4753.6	5936.0
1830.4	2179.2	2587.2	3123.2	3883.2	4747.2	5816.0
1963.2	2363.2	2820.8	3344.0	4044.8	4873.6	5824.0
2099.2	2579.2	3126.4	3721.6	4363.2	5168.0	6076.8
2148.8	2745.6	3436.8	4164.8	4840.0	5609.6	6598.4
2105.6	2784.0	3625.6	4508.8	5304.0	6126.4	7220.8
1945.6	2628.8	3548.8	4606.4	5571.2	6492.8	7843.2
1601.6	2243.2	3200.0	4387.2	5550.4	6568.0	8067.2
1174.4	1739.2	2601.6	3728.0	4934.4	6097.6	7731.2
848.0	1230.4	1878.4	2808.0	3900.8	4910.4	6484.8
608.0	852.8	1219.2	1844.8	2657.6	3419.2	4622.4
436.8	579.2	760.0	1107.2	1619.2	2099.2	2904.0
321.6	396.8	499.2	688.0	953.6	1222.4	1748.8
219.2	233.6	300.8	406.4	625.6	899.2	1187.2
83.2	94.4	110.4	166.4	280.0	321.6	227.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)