

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: P158811

Luminaire Tested: **VTS-E08-LED-E1-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158811
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-7050
Description: VENTUS LED SITE LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (168) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22059.5 lumens
Efficiency: N/A
Efficacy: 113.4 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

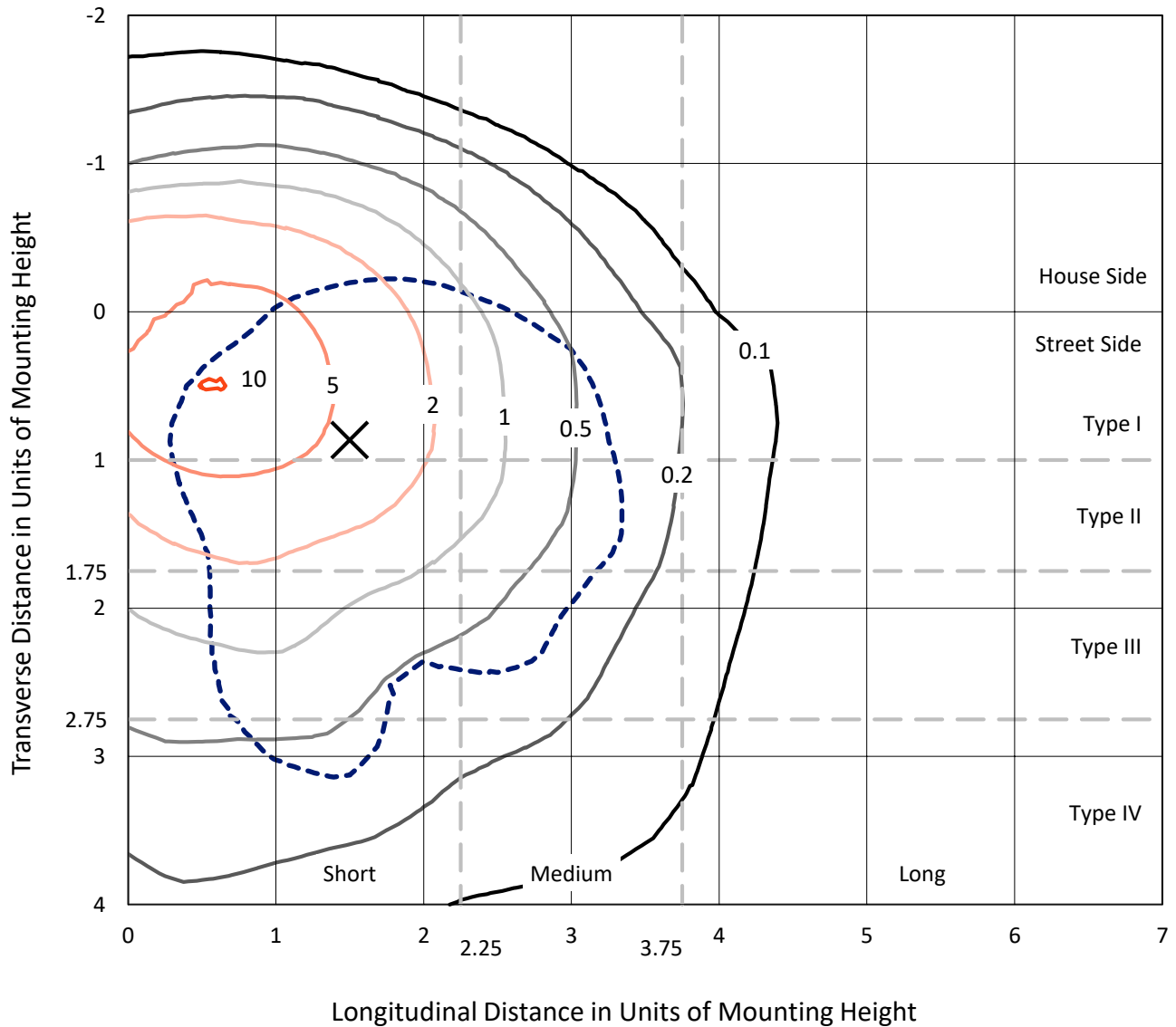
Input Watts (W): 194.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

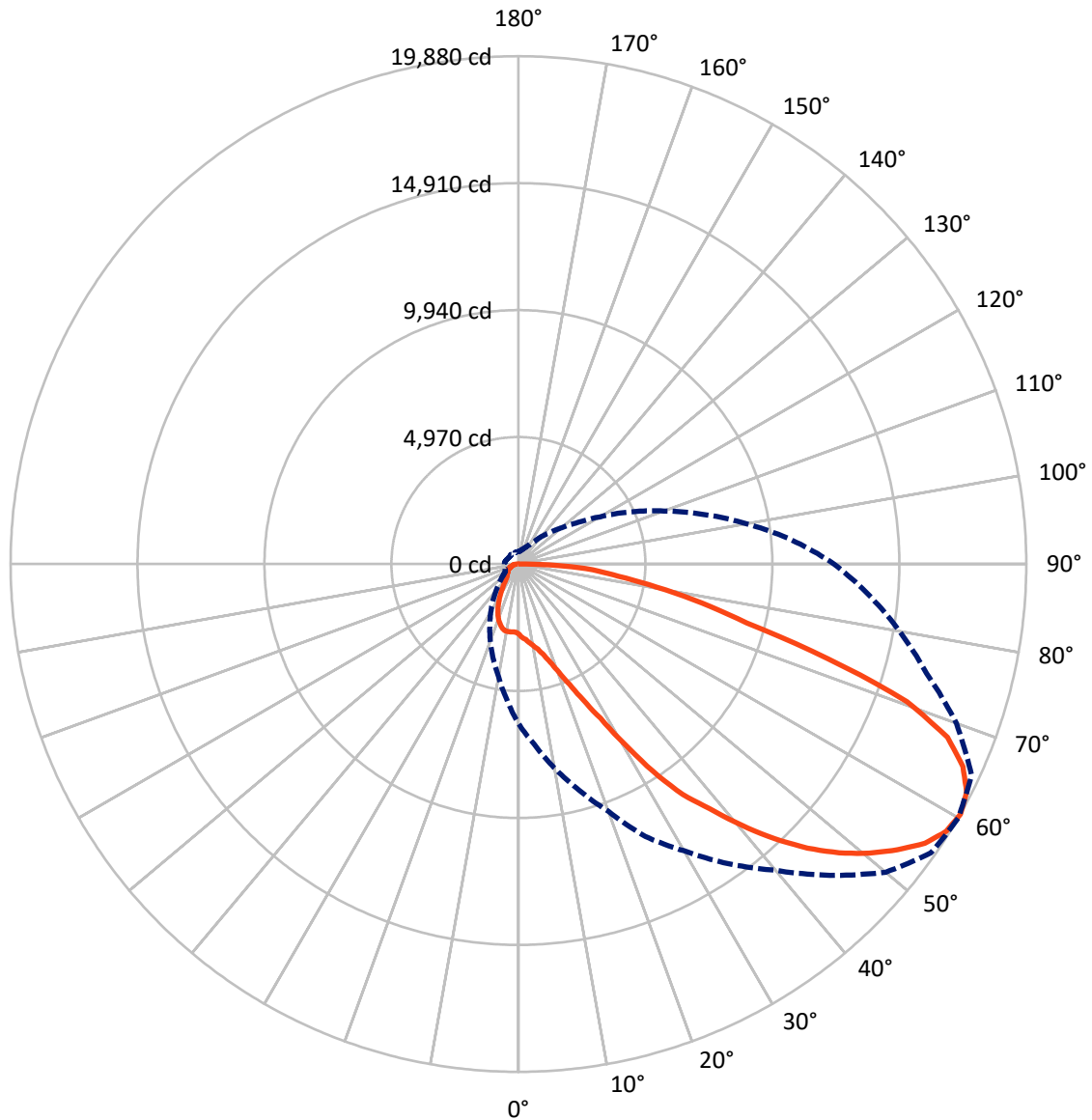
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	4967.1	0.0	4967.1
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	17092.4	0.0	17092.4
	% Fixture	77.5	0.0	77.5
Total	Lumens	22059.5	0.0	22059.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.7	1.2
10°-20°	873.9	4.0
20°-30°	1658.3	7.5
30°-40°	2611.5	11.8
40°-50°	3645.0	16.5
50°-60°	4508.0	20.4
60°-70°	4672.8	21.2
70°-80°	2940.3	13.3
80°-90°	878.9	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°	22059.5	100.0
0°-180°	22059.5	100.0



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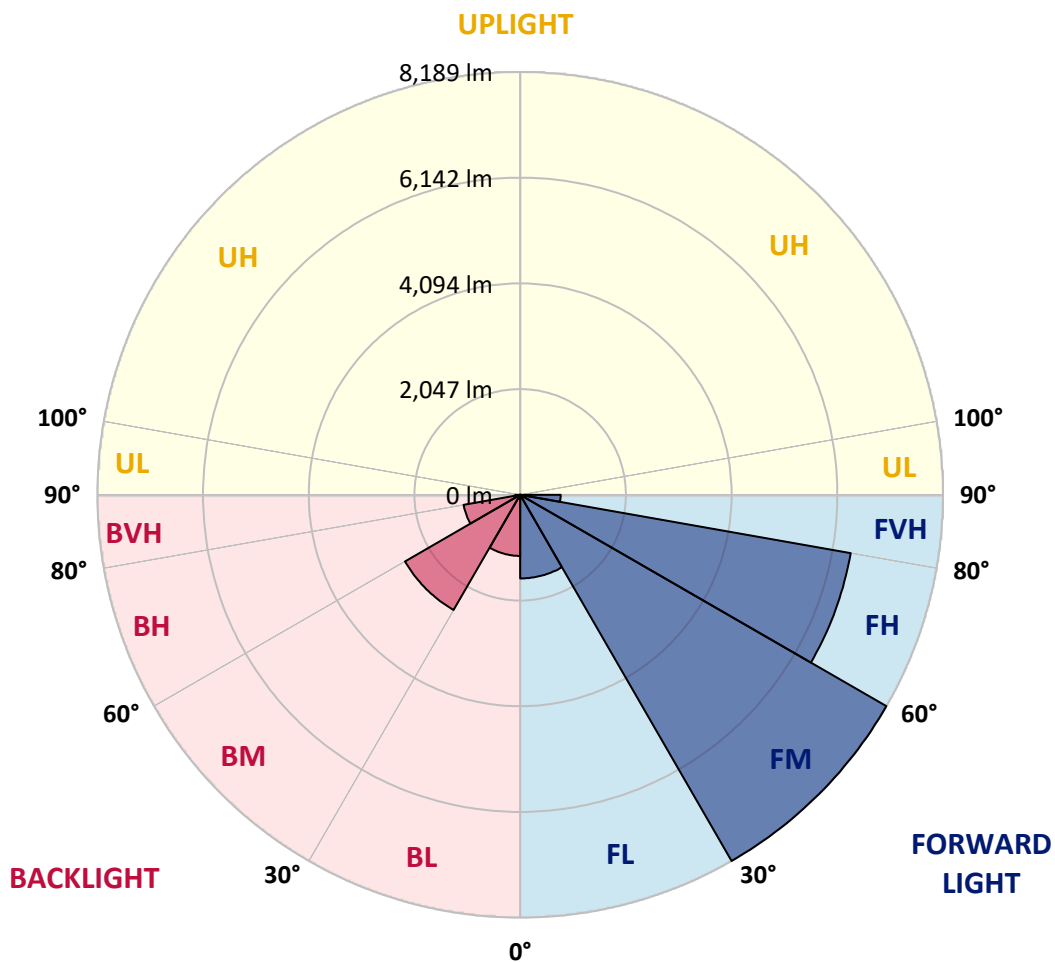
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1619.5	7.3			
FM	(30°-60°)	8188.8	37.1			
FH	(60°-80°)	6500.7	29.5			G3/7500
FVH	(80°-90°)	783.3	3.6			G5
BL	(0°-30°)	1183.3	5.4	B3/2500		
BM	(30°-60°)	2575.7	11.7	B3/5000		
BH	(60°-80°)	1112.4	5.0	B3/2500		G3/2500
BVH	(80°-90°)	95.6	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°	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4
2.5°	2905.9	2902.6	2902.6	2902.6	2901.0	2897.7	2902.6	2901.0	2892.8	2887.9	2892.8
5°	2943.7	2945.3	2950.3	2951.9	2951.9	2956.8	2970.0	2971.6	2970.0	2973.2	2981.5
7.5°	2979.8	2988.0	2992.9	3001.2	3011.0	3019.2	3042.2	3065.2	3080.0	3091.5	3094.7
10°	3038.9	3052.0	3066.8	3088.2	3111.2	3152.2	3171.9	3194.9	3209.7	3232.6	3237.6
12.5°	3190.0	3206.4	3216.2	3249.1	3278.6	3318.0	3345.9	3352.5	3387.0	3406.7	3429.7
15°	3444.4	3469.1	3503.5	3523.2	3556.1	3590.5	3615.2	3648.0	3652.9	3679.2	3697.3
17.5°	3756.4	3790.8	3861.4	3909.1	3951.7	3986.2	4035.5	4073.2	4081.4	4111.0	4073.2
20°	4193.1	4276.8	4288.3	4383.5	4421.3	4490.2	4588.7	4606.8	4654.4	4606.8	4578.9
22.5°	4784.1	4915.5	4951.6	5043.5	5089.5	5194.6	5224.1	5321.0	5353.8	5317.7	5242.2
25°	5463.8	5667.4	5772.5	5913.7	5936.6	6151.7	6174.7	6288.0	6227.2	6140.2	6141.9
27.5°	5964.5	6311.0	6581.9	6823.2	6992.3	7235.3	7424.1	7476.6	7419.2	7305.9	7266.5
30°	6250.2	6642.6	7031.7	7365.0	7759.0	8130.0	8515.9	8707.9	8740.8	8799.9	8561.8
32.5°	6434.1	6938.1	7401.1	7813.2	8217.1	8694.8	9212.0	9706.1	10121.5	10435.1	10287.3
35°	6588.4	7210.6	7803.3	8302.4	8780.2	9300.6	9822.7	10405.5	11093.4	11495.7	11579.4
37.5°	6650.8	7410.9	8136.6	8776.9	9448.4	10034.5	10553.3	11072.1	11794.5	12511.9	12733.6
40°	6639.3	7509.5	8335.3	9139.7	9962.3	10694.5	11301.9	11916.0	12761.5	13600.4	13961.6
42.5°	6562.1	7524.2	8461.7	9381.1	10318.5	11292.1	12068.6	12776.2	13587.3	14662.6	15173.2
45°	6465.3	7473.3	8487.9	9504.2	10582.8	11709.1	12690.9	13565.9	14516.5	15578.7	16196.0
47.5°	6333.9	7392.9	8455.1	9546.9	10701.0	11976.7	13130.9	14183.2	15229.0	16452.2	17235.3
50°	6191.1	7278.0	8387.8	9515.7	10730.6	12122.8	13382.1	14580.5	15802.0	17122.0	18112.0
52.5°	6091.0	7154.8	8327.1	9451.7	10701.0	12167.1	13474.0	14794.0	16153.4	17517.7	18699.7
55°	5967.8	6990.7	8164.5	9302.3	10592.7	12142.5	13464.1	14867.9	16250.2	17670.4	19019.9
57.5°	5976.0	6915.1	8026.6	9123.3	10371.1	11914.3	13278.6	14794.0	16097.5	17571.9	19031.4
60°	6235.4	7077.7	8098.8	9159.4	10305.4	11769.8	12963.4	14317.9	15649.3	17232.0	18765.4
62.5°	6770.7	7542.3	8469.9	9520.6	10674.8	12058.8	12820.6	13526.5	14708.6	16606.5	18312.3
65°	7409.3	8105.4	8909.9	9909.7	11203.4	12528.3	12740.1	12883.0	13480.6	15389.9	17461.9
67.5°	8048.0	8670.2	9302.3	10131.4	11503.9	12663.0	12411.8	12071.9	12393.7	13976.4	15790.5
70°	8277.8	9103.6	9519.0	10088.7	11275.7	12349.4	11881.5	11026.1	11137.8	12575.9	13902.5
72.5°	7933.0	9110.2	9248.1	9459.9	10259.4	11269.1	10774.9	9674.9	9652.0	10750.3	11822.4
75°	6654.1	8310.6	8309.0	8230.2	8410.8	8985.4	8729.3	8066.0	8346.8	9212.0	9564.9
77.5°	4743.1	6485.0	6567.1	6036.8	6023.6	6283.0	6437.4	7209.0	8226.9	8712.9	8601.2
80°	2979.8	4375.3	4728.3	4073.2	3933.7	4301.4	5255.3	6378.3	7630.9	8067.7	7691.7
82.5°	1794.5	2818.9	3570.8	3199.8	3167.0	3836.8	4890.8	5327.5	5703.5	6168.1	5539.3
85°	1218.2	1878.2	2443.0	2516.8	2804.1	3497.0	3955.0	3761.3	3771.1	3649.7	3324.6
87.5°	233.1	512.2	837.3	1021.2	1132.8	1521.9	1654.9	1498.9	1582.7	1157.4	1265.8
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°	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4
2.5°	2884.6	2884.6	2884.6	2876.4	2878.0	2866.5	2861.6	2861.6	2856.7	2856.7	2855.0
5°	2974.9	2965.0	2970.0	2968.3	2968.3	2951.9	2943.7	2943.7	2922.3	2924.0	2917.4
7.5°	3109.5	3107.9	3112.8	3102.9	3089.8	3076.7	3063.5	3057.0	3027.4	3009.4	2997.9
10°	3262.2	3260.6	3265.5	3263.8	3240.9	3216.2	3180.1	3153.8	3117.7	3089.8	3061.9
12.5°	3429.7	3428.0	3424.7	3410.0	3385.3	3345.9	3300.0	3255.6	3201.4	3165.3	3124.3
15°	3690.7	3685.8	3666.1	3644.7	3618.5	3557.7	3477.3	3413.2	3341.0	3278.6	3211.3
17.5°	4076.5	4035.5	4032.2	3984.6	3914.0	3833.5	3758.0	3651.3	3547.9	3454.3	3362.3
20°	4608.4	4513.2	4487.0	4432.8	4339.2	4255.5	4091.3	3948.5	3807.3	3679.2	3562.6
22.5°	5188.0	5119.0	5055.0	4966.4	4838.3	4716.8	4508.3	4329.3	4148.7	3984.6	3854.9
25°	5997.4	5877.5	5762.6	5621.4	5444.1	5299.6	5061.6	4881.0	4644.6	4495.2	4308.0
27.5°	7043.2	6838.0	6644.2	6522.7	6210.8	6000.7	5696.9	5463.8	5178.1	4976.2	4754.6
30°	8404.2	8166.2	7878.8	7458.6	7087.5	6670.5	6294.5	5995.7	5692.0	5409.6	5153.5
32.5°	10092.0	9671.7	9216.9	8550.3	7941.2	7346.9	6846.2	6478.4	6168.1	5816.8	5455.6
35°	11518.6	11085.2	10440.0	9592.9	8840.9	8161.2	7562.0	7059.6	6654.1	6209.2	5731.4
37.5°	12644.9	12150.7	11544.9	10645.2	9850.6	9077.3	8448.5	7808.3	7276.3	6663.9	6059.8
40°	13935.3	13439.5	12773.0	11840.4	10899.7	10060.8	9323.6	8662.0	8008.5	7261.5	6485.0
42.5°	15059.9	14702.0	14027.3	13063.6	12021.0	11086.9	10280.8	9523.9	8670.2	7834.5	6915.1
45°	16232.2	15867.7	15227.4	14219.4	13111.2	12070.3	11106.6	10292.2	9284.2	8289.3	7236.9
47.5°	17268.1	16893.8	16246.9	15245.5	14068.3	12971.6	11911.0	10926.0	9755.4	8612.7	7447.1
50°	18256.5	17798.4	17205.7	16207.5	14949.9	13777.7	12626.8	11362.7	10121.5	8839.3	7589.9
52.5°	19164.4	18581.5	18020.1	16992.3	15632.9	14408.2	13124.3	11733.7	10346.4	9018.2	7686.8
55°	19679.9	19303.9	18632.4	17622.7	16118.9	14841.6	13439.5	11994.8	10569.7	9144.7	7727.8
57.5°	19839.1	19747.2	19184.1	17987.2	16404.6	15079.6	13652.9	12201.6	10719.1	9180.8	7670.3
60°	19712.7	19880.2	19571.5	18243.3	16534.3	15150.2	13758.0	12349.4	10745.4	9065.8	7496.3
62.5°	19307.2	19688.1	19648.7	18328.7	16466.9	15061.6	13746.5	12273.9	10499.1	8707.9	7105.6
65°	18640.6	19120.0	19289.1	18011.8	16087.7	14738.2	13454.3	11799.4	9814.5	8008.5	6450.5
67.5°	17386.3	18112.0	18276.2	16974.2	15096.1	13843.4	12612.1	10814.3	8547.0	6926.6	5427.7
70°	14872.8	16141.9	16363.5	14997.6	13347.6	12247.6	11203.4	9253.0	7117.1	5555.7	4165.2
72.5°	11873.3	12671.2	13124.3	12183.6	10955.5	10157.6	9366.3	7099.0	5370.2	4099.5	2866.5
75°	9282.6	9234.9	9640.5	9015.0	8292.6	7919.9	7325.6	4953.2	3597.1	2715.5	1814.2
77.5°	7936.3	7325.6	6864.2	6424.2	5995.7	5877.5	5307.8	3073.4	2223.0	1627.0	1085.2
80°	6596.6	5481.9	4639.6	4020.7	3868.0	4101.1	3474.0	1812.5	1316.7	934.2	681.3
82.5°	4713.5	3943.5	3209.7	2817.3	2556.2	2927.3	2048.9	1006.4	714.2	559.8	451.5
85°	3055.3	2920.7	2889.5	2761.5	2444.6	2308.3	1556.4	866.9	535.2	348.1	280.7
87.5°	1175.5	1507.1	1738.6	1863.4	2014.5	1794.5	811.0	298.8	293.9	180.6	136.3
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°	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4
2.5°	2843.5	2837.0	2835.3	2830.4	2827.1	2827.1	2818.9	2669.5	2667.9	2667.9	2666.2
5°	2904.3	2896.1	2887.9	2886.2	2879.7	2879.7	2871.5	2722.1	2722.1	2722.1	2718.8
7.5°	2986.4	2970.0	2960.1	2955.2	2945.3	2950.3	2956.8	2805.8	2807.4	2805.8	2809.1
10°	3045.5	3035.6	3024.1	3020.9	3014.3	3019.2	3029.1	2879.7	2884.6	2886.2	2889.5
12.5°	3102.9	3086.5	3071.7	3066.8	3063.5	3076.7	3088.2	2943.7	2948.6	2953.5	2953.5
15°	3173.5	3145.6	3125.9	3114.4	3107.9	3121.0	3137.4	2994.6	2996.2	3001.2	2999.5
17.5°	3293.4	3252.3	3206.4	3198.2	3176.8	3181.7	3185.0	3025.8	3019.2	3007.7	2988.0
20°	3478.9	3416.5	3354.1	3327.9	3285.2	3267.1	3231.0	3027.4	2986.4	2951.9	2922.3
22.5°	3744.9	3652.9	3585.6	3541.3	3454.3	3393.5	3295.0	3019.2	2942.0	2882.9	2837.0
25°	4175.0	4065.0	3961.6	3849.9	3713.7	3592.2	3447.7	3091.5	2971.6	2869.8	2781.2
27.5°	4593.7	4419.6	4260.4	4092.9	3900.8	3718.6	3515.0	3114.4	2978.2	2846.8	2702.4
30°	4907.2	4654.4	4413.1	4168.5	3917.3	3680.8	3451.0	3035.6	2873.1	2725.3	2572.7
32.5°	5097.7	4769.3	4455.8	4152.0	3856.5	3590.5	3332.8	2899.4	2720.4	2546.4	2383.8
35°	5278.3	4871.1	4482.0	4124.1	3785.9	3490.4	3212.9	2740.1	2526.7	2341.2	2135.9
37.5°	5501.6	4977.8	4498.4	4073.2	3682.5	3344.3	3038.9	2539.8	2326.4	2098.2	1904.5
40°	5769.2	5087.8	4482.0	3971.4	3521.6	3152.2	2828.8	2329.7	2091.6	1870.0	1679.5
42.5°	6023.6	5184.7	4439.3	3835.2	3345.9	2951.9	2636.7	2142.5	1904.5	1677.9	1489.1
45°	6212.5	5266.8	4418.0	3739.9	3211.3	2815.6	2467.6	1991.5	1740.3	1512.1	1320.0
47.5°	6343.8	5316.0	4408.1	3687.4	3117.7	2674.4	2313.3	1840.4	1576.1	1346.3	1159.1
50°	6412.7	5314.4	4383.5	3630.0	2979.8	2505.3	2154.0	1687.7	1425.1	1200.1	1029.4
52.5°	6430.8	5284.9	4331.0	3524.9	2812.3	2336.2	1983.3	1528.5	1292.1	1077.0	904.6
55°	6389.8	5212.6	4221.0	3349.2	2633.4	2157.3	1827.3	1403.7	1162.4	958.8	824.2
57.5°	6273.2	5084.6	4014.1	3107.9	2444.6	1991.5	1648.3	1252.7	1021.2	850.4	738.8
60°	6056.5	4813.7	3690.7	2822.2	2204.9	1738.6	1402.1	1055.7	871.8	743.7	653.4
62.5°	5655.9	4388.4	3235.9	2428.2	1860.1	1410.3	1119.7	842.2	704.3	620.6	564.8
65°	5010.7	3748.2	2708.9	1912.7	1413.6	1026.1	832.4	633.7	533.6	482.7	466.3
67.5°	4089.6	2894.4	1970.1	1328.2	957.2	719.1	579.5	463.0	415.4	395.7	389.1
70°	2973.2	1971.8	1275.7	838.9	632.1	502.4	438.4	372.7	346.4	341.5	341.5
72.5°	1866.7	1198.5	781.5	574.6	479.4	407.2	374.3	328.4	318.5	315.2	310.3
75°	1095.1	727.3	553.3	471.2	410.4	364.5	336.6	298.8	292.2	290.6	285.7
77.5°	697.8	523.7	446.6	402.2	371.0	330.0	305.4	266.0	264.3	262.7	261.0
80°	500.7	435.1	390.7	356.3	325.1	287.3	272.5	241.3	238.1	236.4	239.7
82.5°	379.2	359.5	341.5	315.2	272.5	244.6	233.1	211.8	213.4	205.2	203.6
85°	261.0	257.8	256.1	244.6	213.4	188.8	180.6	169.1	177.3	169.1	159.3
87.5°	128.1	126.4	116.6	137.9	128.1	101.8	91.9	101.8	113.3	110.0	101.8
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: P158811

CATALOG NUMBER: VTS-E08-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4
2.5°	2659.7	2653.1	2658.0	2654.7	2654.7	2653.1	2656.4	2651.5	2648.2	2651.5	2653.1
5°	2712.2	2704.0	2705.6	2694.1	2699.1	2687.6	2690.9	2682.7	2674.4	2671.2	2671.2
7.5°	2800.9	2792.6	2782.8	2781.2	2763.1	2756.5	2745.0	2738.5	2733.5	2722.1	2715.5
10°	2881.3	2868.2	2856.7	2855.0	2837.0	2820.6	2805.8	2792.6	2784.4	2768.0	2759.8
12.5°	2947.0	2933.8	2915.8	2905.9	2887.9	2868.2	2858.3	2838.6	2827.1	2809.1	2794.3
15°	2984.7	2961.8	2935.5	2917.4	2891.2	2869.8	2855.0	2840.3	2828.8	2805.8	2784.4
17.5°	2966.7	2928.9	2892.8	2860.0	2823.8	2804.1	2782.8	2764.7	2761.5	2735.2	2702.4
20°	2891.2	2846.8	2799.2	2754.9	2707.3	2679.4	2653.1	2625.2	2617.0	2585.8	2543.1
22.5°	2799.2	2748.3	2694.1	2640.0	2579.2	2539.8	2500.4	2465.9	2438.0	2392.1	2331.3
25°	2705.6	2630.1	2551.3	2482.4	2411.8	2362.5	2321.5	2283.7	2250.9	2177.0	2114.6
27.5°	2582.5	2464.3	2383.8	2305.0	2219.7	2155.6	2109.7	2057.1	2021.0	1935.6	1870.0
30°	2424.9	2306.7	2191.8	2113.0	2027.6	1958.6	1899.5	1824.0	1771.5	1709.1	1648.3
32.5°	2226.2	2108.0	1991.5	1902.8	1832.2	1746.8	1673.0	1600.7	1540.0	1479.2	1431.6
35°	1984.9	1870.0	1760.0	1671.3	1592.5	1525.2	1454.6	1392.2	1323.3	1257.6	1229.7
37.5°	1730.4	1607.3	1485.8	1408.6	1346.3	1298.6	1233.0	1182.1	1119.7	1080.3	1047.4
40°	1508.8	1377.4	1262.5	1196.8	1147.6	1093.4	1039.2	999.8	955.5	916.1	891.5
42.5°	1321.6	1198.5	1100.0	1044.2	985.1	926.0	884.9	852.1	824.2	794.6	765.1
45°	1149.2	1031.0	948.9	880.0	830.7	783.1	755.2	740.4	724.0	706.0	686.3
47.5°	1004.8	903.0	822.5	758.5	707.6	674.8	661.6	656.7	650.1	635.4	625.5
50°	894.8	811.0	728.9	671.5	628.8	612.4	597.6	592.7	584.5	579.5	573.0
52.5°	802.8	714.2	645.2	592.7	566.4	559.8	553.3	546.7	545.1	541.8	538.5
55°	727.3	650.1	586.1	546.7	533.6	528.6	527.0	520.4	518.8	518.8	513.9
57.5°	660.0	594.3	536.9	512.2	504.0	499.1	495.8	492.5	492.5	495.8	494.2
60°	591.0	535.2	500.7	487.6	482.7	474.5	466.3	463.0	464.6	472.8	472.8
62.5°	523.7	482.7	461.3	456.4	451.5	444.9	435.1	431.8	435.1	444.9	449.8
65°	449.8	431.8	425.2	421.9	418.7	413.7	407.2	403.9	405.5	410.4	417.0
67.5°	382.5	380.9	380.9	382.5	380.9	379.2	376.0	371.0	369.4	369.4	372.7
70°	341.5	341.5	346.4	346.4	344.8	344.8	339.8	334.9	331.6	328.4	330.0
72.5°	310.3	310.3	311.9	313.6	311.9	311.9	305.4	302.1	293.9	292.2	289.0
75°	284.0	280.7	280.7	279.1	277.5	279.1	272.5	264.3	261.0	259.4	256.1
77.5°	257.8	251.2	247.9	244.6	246.3	244.6	239.7	234.8	229.8	228.2	226.6
80°	228.2	218.4	213.4	205.2	210.1	211.8	208.5	203.6	201.9	200.3	198.7
82.5°	188.8	179.0	172.4	167.5	164.2	167.5	172.4	183.9	180.6	179.0	175.7
85°	147.8	131.3	123.1	124.8	116.6	118.2	133.0	139.6	139.6	142.8	139.6
87.5°	83.7	80.4	60.7	55.8	59.1	70.6	78.8	87.0	87.0	82.1	91.9
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: P158811

CATALOG NUMBER: VTS-E08-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4
2.5°	2653.1	2656.4	2658.0	2664.6	2667.9	2669.5	2671.2	2674.4	2676.1	2674.4	2682.7
5°	2666.2	2666.2	2662.9	2667.9	2669.5	2669.5	2666.2	2669.5	2669.5	2669.5	2677.7
7.5°	2700.7	2690.9	2685.9	2679.4	2674.4	2667.9	2659.7	2659.7	2658.0	2659.7	2664.6
10°	2736.8	2722.1	2704.0	2687.6	2672.8	2661.3	2646.5	2641.6	2640.0	2638.3	2651.5
12.5°	2764.7	2738.5	2710.6	2682.7	2653.1	2633.4	2608.8	2594.0	2592.4	2592.4	2608.8
15°	2745.0	2702.4	2648.2	2598.9	2572.7	2544.7	2516.8	2498.8	2497.1	2500.4	2510.3
17.5°	2646.5	2577.6	2530.0	2482.4	2447.9	2424.9	2406.8	2403.5	2410.1	2403.5	2416.7
20°	2479.1	2405.2	2372.4	2334.6	2321.5	2305.0	2278.8	2255.8	2255.8	2226.2	2234.4
22.5°	2262.4	2221.3	2178.6	2149.1	2139.2	2111.3	2083.4	2052.2	2048.9	2012.8	2007.9
25°	2035.8	1994.7	1960.3	1953.7	1924.2	1886.4	1860.1	1824.0	1815.8	1779.7	1774.8
27.5°	1804.3	1771.5	1737.0	1717.3	1700.9	1659.8	1636.8	1594.2	1577.7	1538.3	1533.4
30°	1584.3	1561.3	1520.3	1503.9	1472.7	1425.1	1375.8	1349.5	1336.4	1295.4	1282.2
32.5°	1377.4	1341.3	1310.1	1290.4	1251.0	1196.8	1152.5	1114.8	1090.1	1040.9	1027.7
35°	1180.4	1144.3	1129.5	1078.6	1044.2	1008.0	947.3	924.3	880.0	842.2	829.1
37.5°	1006.4	971.9	952.2	909.5	875.1	838.9	802.8	773.3	751.9	743.7	743.7
40°	857.0	838.9	814.3	783.1	760.1	733.9	714.2	704.3	702.7	706.0	714.2
42.5°	750.3	730.6	714.2	697.8	681.3	678.1	673.1	679.7	687.9	696.1	704.3
45°	669.8	653.4	643.6	637.0	635.4	640.3	650.1	660.0	674.8	684.6	691.2
47.5°	612.4	599.2	596.0	594.3	602.5	617.3	630.4	645.2	656.7	666.6	673.1
50°	563.1	551.6	550.0	548.4	559.8	573.0	584.5	604.2	612.4	618.9	623.9
52.5°	528.6	518.8	513.9	515.5	527.0	538.5	554.9	569.7	581.2	586.1	591.0
55°	500.7	497.5	486.0	490.9	502.4	517.2	533.6	550.0	561.5	569.7	577.9
57.5°	479.4	471.2	463.0	471.2	482.7	497.5	517.2	531.9	546.7	558.2	566.4
60°	456.4	449.8	443.3	451.5	463.0	477.8	492.5	512.2	530.3	541.8	550.0
62.5°	436.7	431.8	425.2	426.9	431.8	441.6	449.8	467.9	484.3	499.1	508.9
65°	408.8	407.2	397.3	398.9	402.2	412.1	418.7	435.1	451.5	464.6	472.8
67.5°	367.8	364.5	364.5	369.4	371.0	376.0	380.9	397.3	410.4	420.3	430.1
70°	326.7	325.1	325.1	328.4	326.7	331.6	338.2	353.0	369.4	379.2	389.1
72.5°	287.3	287.3	285.7	289.0	289.0	290.6	298.8	311.9	326.7	334.9	341.5
75°	252.8	251.2	251.2	251.2	252.8	252.8	261.0	272.5	287.3	292.2	302.1
77.5°	221.6	221.6	221.6	221.6	223.3	221.6	226.6	234.8	239.7	247.9	247.9
80°	195.4	193.7	195.4	197.0	197.0	195.4	195.4	197.0	198.7	198.7	198.7
82.5°	172.4	167.5	170.7	179.0	179.0	179.0	177.3	165.8	157.6	157.6	160.9
85°	137.9	137.9	139.6	151.0	152.7	146.1	152.7	136.3	119.8	114.9	118.2
87.5°	85.4	67.3	82.1	93.6	93.6	88.7	98.5	91.9	77.2	62.4	59.1
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: P158811
 CATALOG NUMBER: VTS-E08-LED-E1-SLL-7050

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	0°
2.5°	2689.2	2690.9	2700.7	2705.6	2705.6	2712.2	2715.5	2725.3	2723.7	2723.7	2727.0	2.5°
5°	2685.9	2690.9	2700.7	2707.3	2710.6	2718.8	2725.3	2736.8	2735.2	2738.5	2740.1	5°
7.5°	2674.4	2687.6	2697.4	2710.6	2722.1	2728.6	2736.8	2746.7	2743.4	2745.0	2743.4	7.5°
10°	2664.6	2677.7	2697.4	2715.5	2731.9	2741.8	2746.7	2758.2	2756.5	2759.8	2759.8	10°
12.5°	2625.2	2648.2	2672.8	2700.7	2725.3	2751.6	2768.0	2792.6	2804.1	2818.9	2835.3	12.5°
15°	2525.0	2551.3	2590.7	2621.9	2669.5	2705.6	2753.2	2800.9	2843.5	2884.6	2932.2	15°
17.5°	2426.5	2438.0	2469.2	2511.9	2554.6	2608.8	2666.2	2751.6	2828.8	2912.5	3004.4	17.5°
20°	2244.3	2264.0	2285.3	2336.2	2387.1	2464.3	2534.9	2646.5	2759.8	2891.2	3032.3	20°
22.5°	2019.4	2039.1	2062.1	2119.5	2181.9	2260.7	2346.1	2470.9	2621.9	2792.6	2981.5	22.5°
25°	1776.4	1787.9	1805.9	1863.4	1901.2	2004.6	2108.0	2237.7	2401.9	2621.9	2841.9	25°
27.5°	1508.8	1530.1	1544.9	1571.2	1658.2	1746.8	1855.2	1994.7	2193.4	2418.3	2684.3	27.5°
30°	1252.7	1270.7	1262.5	1318.3	1375.8	1469.4	1585.9	1740.3	1930.7	2198.3	2505.3	30°
32.5°	1001.5	1014.6	1009.7	1049.1	1106.6	1200.1	1310.1	1477.6	1679.5	1965.2	2298.5	32.5°
35°	825.8	829.1	847.2	865.2	914.5	990.0	1083.6	1229.7	1436.5	1699.2	2052.2	35°
37.5°	743.7	750.3	761.8	786.4	822.5	876.7	953.9	1067.1	1244.5	1476.0	1791.2	37.5°
40°	719.1	724.0	730.6	747.0	781.5	829.1	898.0	993.3	1123.0	1318.3	1574.5	40°
42.5°	707.6	707.6	707.6	717.5	743.7	794.6	873.4	967.0	1080.3	1228.0	1434.9	42.5°
45°	691.2	691.2	689.5	694.5	712.5	763.4	848.8	953.9	1075.4	1216.6	1395.5	45°
47.5°	673.1	671.5	666.6	666.6	678.1	728.9	817.6	930.9	1063.9	1226.4	1418.5	47.5°
50°	623.9	623.9	623.9	628.8	638.6	684.6	779.8	899.7	1052.4	1233.0	1454.6	50°
52.5°	596.0	597.6	602.5	602.5	612.4	660.0	760.1	893.1	1058.9	1257.6	1500.6	52.5°
55°	582.8	587.8	592.7	592.7	600.9	650.1	753.6	898.0	1083.6	1308.5	1579.4	55°
57.5°	571.3	576.3	579.5	579.5	586.1	628.8	735.5	889.8	1098.3	1357.7	1676.2	57.5°
60°	550.0	553.3	554.9	554.9	556.6	592.7	694.5	850.4	1065.5	1354.5	1728.8	60°
62.5°	510.6	517.2	518.8	520.4	520.4	554.9	641.9	786.4	994.9	1305.2	1714.0	62.5°
65°	481.0	484.3	489.2	492.5	499.1	522.1	591.0	709.2	903.0	1206.7	1631.9	65°
67.5°	435.1	440.0	444.9	451.5	458.1	472.8	527.0	622.2	778.2	1039.2	1448.0	67.5°
70°	394.0	395.7	400.6	408.8	410.4	418.7	458.1	523.7	637.0	834.0	1165.7	70°
72.5°	343.1	346.4	353.0	362.8	362.8	369.4	392.4	426.9	499.1	637.0	860.3	72.5°
75°	298.8	302.1	307.0	307.0	298.8	300.4	316.9	341.5	395.7	479.4	627.2	75°
77.5°	247.9	254.5	259.4	249.5	246.3	251.2	259.4	277.5	316.9	380.9	471.2	77.5°
80°	205.2	208.5	210.1	211.8	208.5	213.4	220.0	231.5	257.8	307.0	372.7	80°
82.5°	164.2	167.5	172.4	179.0	179.0	197.0	198.7	198.7	213.4	244.6	292.2	82.5°
85°	121.5	128.1	134.6	142.8	144.5	154.3	149.4	147.8	152.7	182.2	201.9	85°
87.5°	62.4	67.3	70.6	77.2	69.0	72.2	72.2	67.3	59.1	73.9	82.1	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: P158811

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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
2743.4	2743.4	2743.4	2743.4	2743.4	2743.4	2743.4
2730.3	2727.0	2730.3	2730.3	2735.2	2731.9	2905.9
2743.4	2740.1	2743.4	2746.7	2751.6	2751.6	2943.7
2745.0	2745.0	2741.8	2750.0	2756.5	2763.1	2979.8
2764.7	2764.7	2768.0	2769.7	2784.4	2800.9	3038.9
2845.2	2853.4	2868.2	2873.1	2899.4	2917.4	3190.0
2968.3	3014.3	3043.8	3053.7	3076.7	3111.2	3444.4
3093.1	3170.3	3250.7	3300.0	3329.5	3370.6	3756.4
3186.7	3331.1	3469.1	3592.2	3662.8	3743.2	4193.1
3194.9	3424.7	3657.9	3886.1	4074.9	4224.3	4784.1
3116.1	3418.2	3739.9	4089.6	4414.7	4684.0	5463.8
3015.9	3387.0	3797.4	4244.0	4670.8	5068.1	5964.5
2889.5	3334.4	3807.3	4309.6	4810.4	5288.1	6250.2
2697.4	3178.5	3689.1	4244.0	4825.2	5406.3	6434.1
2451.2	2942.0	3465.8	4097.9	4756.2	5454.0	6588.4
2200.0	2684.3	3247.4	3902.5	4646.2	5445.7	6650.8
1934.0	2415.0	2991.3	3694.0	4496.8	5370.2	6639.3
1753.4	2191.8	2756.5	3482.2	4331.0	5270.1	6562.1
1648.3	2032.5	2571.0	3288.5	4179.9	5150.2	6465.3
1646.7	1984.9	2472.5	3150.6	4027.3	5017.2	6333.9
1704.2	2014.5	2461.0	3091.5	3943.5	4920.4	6191.1
1771.5	2096.5	2521.8	3112.8	3941.9	4877.7	6091.0
1878.2	2236.1	2654.7	3204.7	3984.6	4871.1	5967.8
2014.5	2424.9	2894.4	3431.3	4150.4	5000.8	5976.0
2154.0	2646.5	3208.0	3818.8	4477.1	5302.9	6235.4
2204.9	2817.3	3526.5	4273.5	4966.4	5756.0	6770.7
2160.6	2856.7	3720.2	4626.5	5442.5	6286.3	7409.3
1996.4	2697.4	3641.4	4726.7	5716.6	6662.3	8048.0
1643.4	2301.8	3283.5	4501.7	5695.3	6739.5	8277.8
1205.1	1784.6	2669.5	3825.3	5063.2	6256.8	7933.0
870.1	1262.5	1927.4	2881.3	4002.6	5038.6	6654.1
623.9	875.1	1251.0	1893.0	2727.0	3508.5	4743.1
448.2	594.3	779.8	1136.1	1661.5	2154.0	2979.8
330.0	407.2	512.2	706.0	978.5	1254.3	1794.5
224.9	239.7	308.7	417.0	641.9	922.7	1218.2
85.4	96.9	113.3	170.7	287.3	330.0	233.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)