

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: P158853

Luminaire Tested: **VTS-F12-LED-E1-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158853
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-8030
Description: VENTUS LED SITE LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

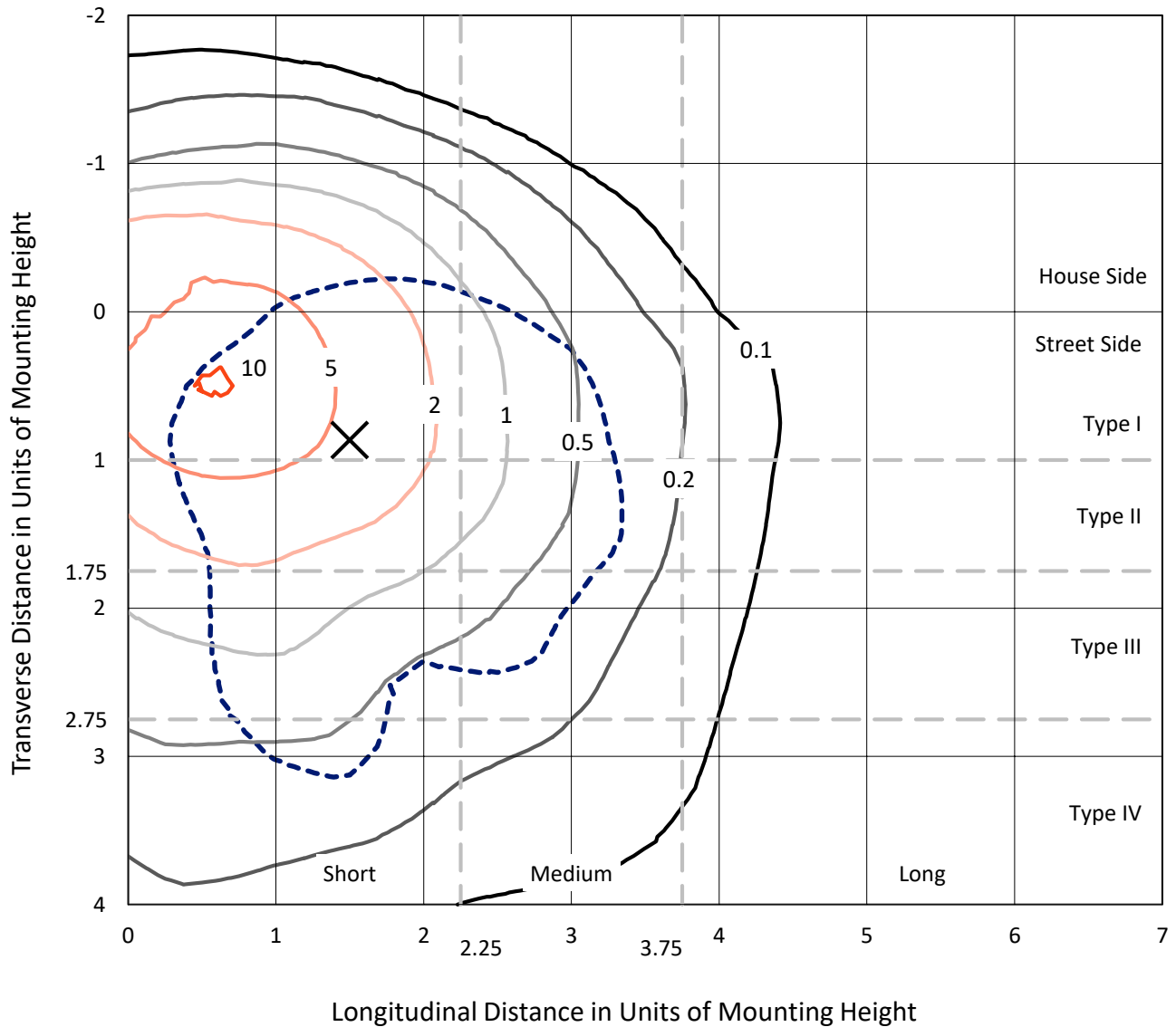
Lumens per Lamp: N/A
Luminaire Lumens: 22467.9 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 306.6
Input Voltage (V): NR
Input Current (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: P158853
 CATALOG NUMBER: VTS-F12-LED-E1-SLL-8030

Iso-Footcandle Lines of Horizontal Illumination

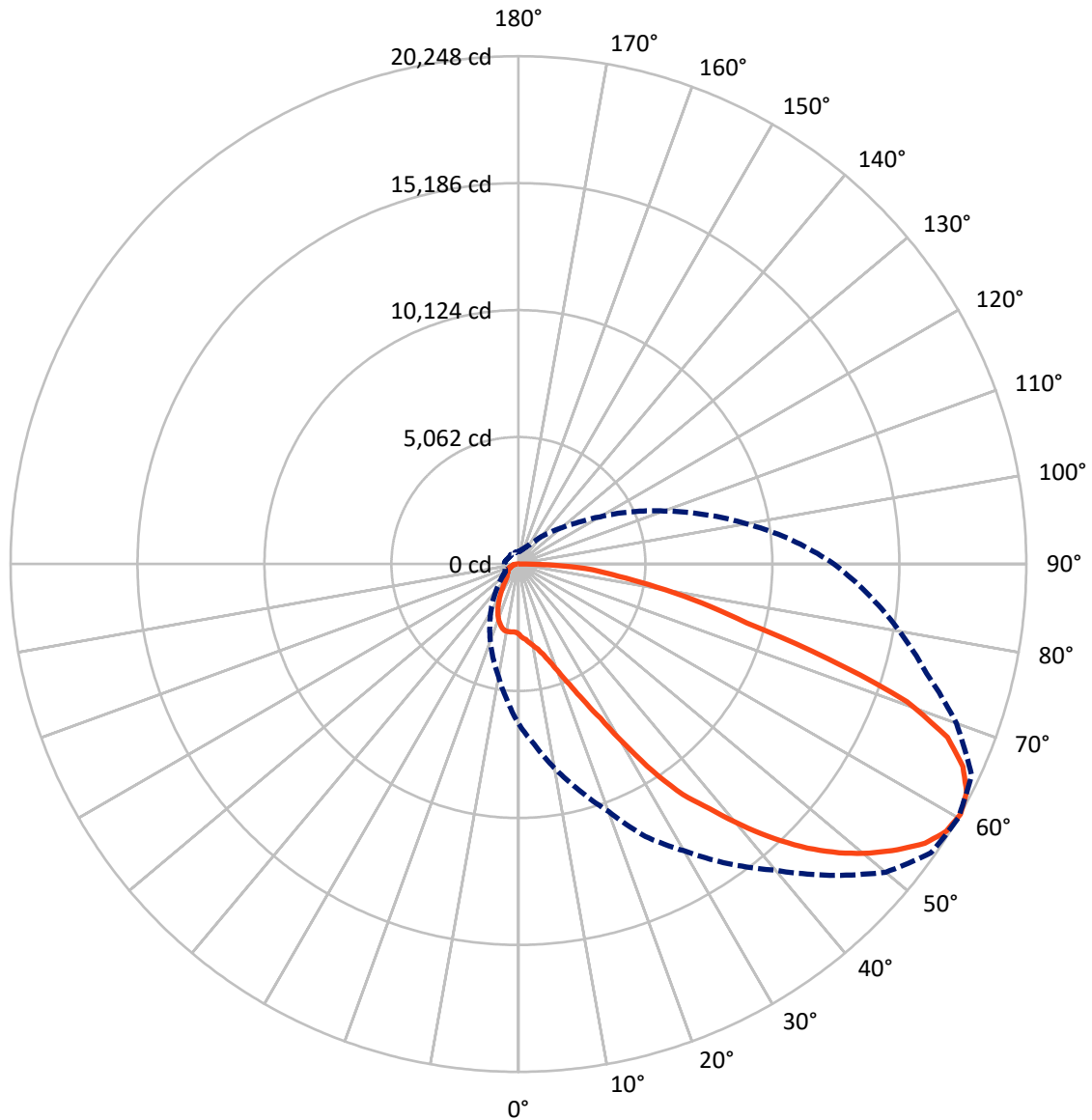
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P158853
CATALOG NUMBER: VTS-F12-LED-E1-SLL-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P158853

CATALOG NUMBER: VTS-F12-LED-E1-SLL-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5059.1	0.0	5059.1
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	17408.8	0.0	17408.8
	% Fixture	77.5	0.0	77.5
Total	Lumens	22467.9	0.0	22467.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.7	1.2
10°-20°	890.1	4.0
20°-30°	1689.0	7.5
30°-40°	2659.8	11.8
40°-50°	3712.5	16.5
50°-60°	4591.5	20.4
60°-70°	4759.3	21.2
70°-80°	2994.7	13.3
80°-90°	895.2	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°	22467.9	100.0
0°-180°	22467.9	100.0



REPORT NUMBER: P158853

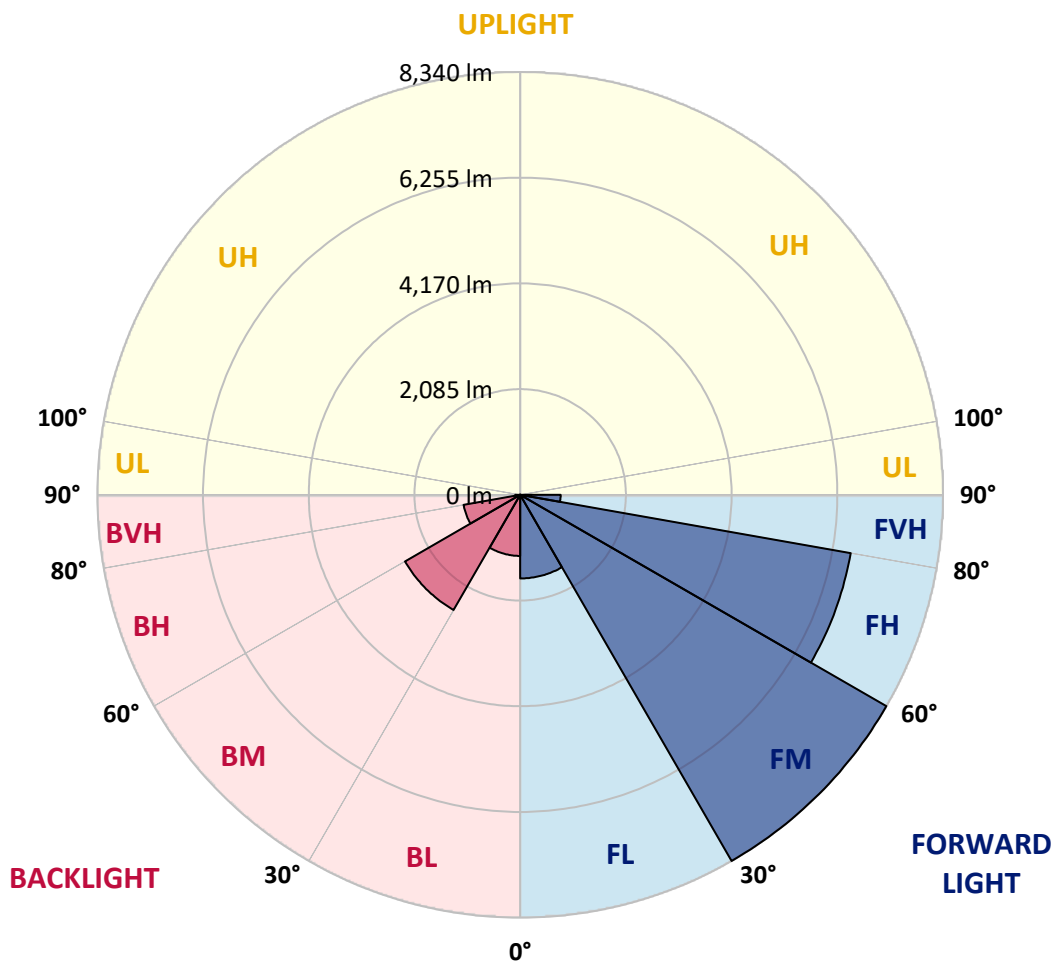
CATALOG NUMBER: VTS-F12-LED-E1-SLL-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1649.5	7.3			
FM	(30°-60°)	8340.4	37.1			
FH	(60°-80°)	6621.1	29.5			G3/7500
FVH	(80°-90°)	797.8	3.6			G5
BL	(0°-30°)	1205.3	5.4	B3/2500		
BM	(30°-60°)	2623.4	11.7	B3/5000		
BH	(60°-80°)	1133.0	5.0	B3/2500		G3/2500
BVH	(80°-90°)	97.4	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: P158853

CATALOG NUMBER: VTS-F12-LED-E1-SLL-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2
2.5°	2959.7	2956.4	2956.4	2956.4	2954.7	2951.4	2956.4	2954.7	2946.4	2941.3	2946.4
5°	2998.2	2999.9	3004.9	3006.6	3006.6	3011.6	3024.9	3026.6	3024.9	3028.3	3036.7
7.5°	3035.0	3043.3	3048.4	3056.7	3066.8	3075.1	3098.5	3121.9	3137.0	3148.7	3152.0
10°	3095.2	3108.6	3123.6	3145.3	3168.8	3210.6	3230.6	3254.0	3269.1	3292.5	3297.5
12.5°	3249.0	3265.7	3275.8	3309.2	3339.3	3379.4	3407.9	3414.6	3449.7	3469.7	3493.2
15°	3508.2	3533.3	3568.4	3588.5	3621.9	3657.0	3682.1	3715.6	3720.6	3747.3	3765.7
17.5°	3825.9	3861.0	3932.9	3981.4	4024.9	4060.0	4110.2	4148.6	4157.0	4187.1	4148.6
20°	4270.7	4356.0	4367.7	4464.7	4503.1	4573.4	4673.7	4692.1	4740.6	4692.1	4663.7
22.5°	4872.7	5006.5	5043.3	5136.9	5183.7	5290.7	5320.8	5419.5	5452.9	5416.1	5339.2
25°	5565.0	5772.3	5879.3	6023.1	6046.5	6265.6	6289.0	6404.4	6342.5	6253.9	6255.6
27.5°	6075.0	6427.8	6703.7	6949.5	7121.8	7369.2	7561.5	7615.0	7556.5	7441.1	7401.0
30°	6365.9	6765.6	7161.9	7501.3	7902.7	8280.6	8673.5	8869.2	8902.6	8962.8	8720.3
32.5°	6553.2	7066.6	7538.1	7957.8	8369.2	8855.8	9382.5	9885.8	10308.9	10628.3	10477.8
35°	6710.4	7344.2	7947.8	8456.1	8942.7	9472.8	10004.6	10598.2	11298.8	11708.5	11793.8
37.5°	6773.9	7548.2	8287.3	8939.4	9623.3	10220.3	10748.7	11277.1	12012.8	12743.6	12969.3
40°	6762.2	7648.5	8489.6	9308.9	10146.7	10892.5	11511.2	12136.6	12997.7	13852.2	14220.1
42.5°	6683.6	7663.5	8618.3	9554.8	10509.6	11501.2	12292.1	13012.8	13838.8	14934.1	15454.2
45°	6585.0	7611.7	8645.1	9680.2	10778.8	11925.9	12925.8	13817.1	14785.3	15867.2	16495.9
47.5°	6451.2	7529.8	8611.7	9723.6	10899.2	12198.4	13374.0	14445.8	15511.0	16756.8	17554.4
50°	6305.7	7412.7	8543.1	9691.9	10929.3	12347.3	13629.8	14850.5	16094.6	17439.0	18447.3
52.5°	6203.7	7287.3	8481.2	9626.7	10899.2	12392.4	13723.5	15067.9	16452.4	17842.0	19046.0
55°	6078.3	7120.1	8315.7	9474.5	10788.8	12367.3	13713.4	15143.1	16551.1	17997.5	19372.0
57.5°	6086.7	7043.2	8175.2	9292.2	10563.1	12134.9	13524.5	15067.9	16395.6	17897.2	19383.7
60°	6350.9	7208.7	8248.8	9329.0	10496.2	11987.8	13203.4	14583.0	15939.1	17551.0	19112.8
62.5°	6896.0	7681.9	8626.7	9696.9	10872.4	12282.1	13057.9	13777.0	14980.9	16914.0	18651.3
65°	7546.5	8255.5	9074.8	10093.2	11410.9	12760.3	12976.0	13121.5	13730.1	15674.9	17785.2
67.5°	8197.0	8830.7	9474.5	10318.9	11716.9	12897.4	12641.6	12295.4	12623.2	14235.1	16082.9
70°	8431.1	9272.2	9695.2	10275.5	11484.4	12578.0	12101.5	11230.3	11344.0	12808.8	14159.9
72.5°	8079.9	9278.8	9419.3	9635.0	10449.4	11477.7	10974.4	9854.1	9830.7	10949.3	12041.3
75°	6777.3	8464.5	8462.8	8382.6	8566.5	9151.8	8890.9	8215.3	8501.3	9382.5	9742.0
77.5°	4830.9	6605.1	6688.7	6148.6	6135.2	6399.4	6556.6	7342.5	8379.2	8874.2	8760.5
80°	3035.0	4456.3	4815.8	4148.6	4006.5	4381.1	5352.6	6496.4	7772.2	8217.0	7834.1
82.5°	1827.7	2871.1	3637.0	3259.1	3225.6	3907.9	4981.4	5426.2	5809.1	6282.3	5641.9
85°	1240.7	1913.0	2488.2	2563.4	2856.1	3561.7	4028.2	3830.9	3841.0	3717.2	3386.1
87.5°	237.4	521.7	852.8	1040.1	1153.8	1550.1	1685.5	1526.7	1612.0	1178.9	1289.2
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: P158853

CATALOG NUMBER: VTS-F12-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2
2.5°	2938.0	2938.0	2938.0	2929.6	2931.3	2919.6	2914.6	2914.6	2909.6	2909.6	2907.9
5°	3030.0	3019.9	3024.9	3023.3	3023.3	3006.6	2998.2	2998.2	2976.5	2978.1	2971.4
7.5°	3167.1	3165.4	3170.4	3160.4	3147.0	3133.6	3120.3	3113.6	3083.5	3065.1	3053.4
10°	3322.6	3320.9	3325.9	3324.3	3300.9	3275.8	3239.0	3212.2	3175.4	3147.0	3118.6
12.5°	3493.2	3491.5	3488.1	3473.1	3448.0	3407.9	3361.1	3315.9	3260.7	3223.9	3182.1
15°	3759.0	3754.0	3733.9	3712.2	3685.5	3623.6	3541.6	3476.4	3402.9	3339.3	3270.8
17.5°	4152.0	4110.2	4106.8	4058.3	3986.4	3904.5	3827.6	3718.9	3613.5	3518.2	3424.6
20°	4693.8	4596.8	4570.0	4514.8	4419.5	4334.3	4167.0	4021.6	3877.8	3747.3	3628.6
22.5°	5284.0	5213.8	5148.6	5058.3	4927.9	4804.1	4591.8	4409.5	4225.6	4058.3	3926.2
25°	6108.4	5986.4	5869.3	5725.5	5544.9	5397.7	5155.3	4971.3	4730.6	4578.4	4387.8
27.5°	7173.6	6964.6	6767.3	6643.5	6325.8	6111.8	5802.4	5565.0	5274.0	5068.3	4842.6
30°	8559.8	8317.4	8024.7	7596.6	7218.7	6794.0	6411.1	6106.7	5797.4	5509.8	5248.9
32.5°	10278.8	9850.7	9387.5	8708.6	8088.3	7482.9	6972.9	6598.4	6282.3	5924.5	5556.6
35°	11731.9	11290.5	10633.3	9770.5	9004.6	8312.3	7702.0	7190.3	6777.3	6324.1	5837.5
37.5°	12879.0	12375.7	11758.7	10842.3	10033.0	9245.4	8605.0	7952.8	7411.0	6787.3	6172.0
40°	14193.3	13688.3	13009.4	12059.7	11101.5	10247.0	9496.2	8822.3	8156.8	7396.0	6605.1
42.5°	15338.8	14974.2	14287.0	13305.4	12243.6	11292.1	10471.1	9700.2	8830.7	7979.6	7043.2
45°	16532.7	16161.5	15509.3	14482.6	13353.9	12293.8	11312.2	10482.8	9456.1	8442.8	7370.9
47.5°	17587.8	17206.6	16547.7	15527.7	14328.8	13211.8	12131.6	11128.3	9936.0	8772.2	7584.9
50°	18594.5	18127.9	17524.3	16507.6	15226.7	14032.8	12860.6	11573.1	10308.9	9002.9	7730.4
52.5°	19519.2	18925.6	18353.7	17306.9	15922.4	14674.9	13367.3	11951.0	10538.0	9185.2	7829.1
55°	20044.2	19661.3	18977.4	17949.0	16417.3	15116.4	13688.3	12216.8	10765.4	9314.0	7870.9
57.5°	20206.4	20112.8	19539.3	18320.2	16708.3	15358.8	13905.7	12427.5	10917.6	9350.7	7812.4
60°	20077.7	20248.2	19933.9	18581.1	16840.4	15430.7	14012.7	12578.0	10944.3	9233.7	7635.1
62.5°	19664.7	20052.6	20012.5	18668.1	16771.8	15340.4	14001.0	12501.1	10693.5	8869.2	7237.1
65°	18985.8	19474.0	19646.3	18345.3	16385.5	15011.0	13703.4	12017.9	9996.2	8156.8	6569.9
67.5°	17708.2	18447.3	18614.5	17288.5	15375.6	14099.7	12845.6	11014.6	8705.3	7054.9	5528.2
70°	15148.1	16440.7	16666.5	15275.2	13594.7	12474.4	11410.9	9424.3	7248.8	5658.6	4242.3
72.5°	12093.1	12905.8	13367.3	12409.1	11158.4	10345.7	9539.7	7230.4	5469.7	4175.4	2919.6
75°	9454.4	9405.9	9819.0	9181.9	8446.1	8066.5	7461.2	5044.9	3663.7	2765.8	1847.7
77.5°	8083.2	7461.2	6991.3	6543.2	6106.7	5986.4	5406.1	3130.3	2264.1	1657.1	1105.3
80°	6718.8	5583.4	4725.5	4095.1	3939.6	4177.1	3538.3	1846.1	1341.1	951.5	693.9
82.5°	4800.8	4016.5	3269.1	2869.4	2603.6	2981.5	2086.9	1025.0	727.4	570.2	459.8
85°	3111.9	2974.8	2943.0	2812.6	2489.9	2351.1	1585.2	882.9	545.1	354.5	285.9
87.5°	1197.3	1535.0	1770.8	1897.9	2051.7	1827.7	826.0	304.3	299.3	183.9	138.8
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: P158853

CATALOG NUMBER: VTS-F12-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2
2.5°	2896.2	2889.5	2887.8	2882.8	2879.5	2879.5	2871.1	2718.9	2717.3	2717.3	2715.6
5°	2958.1	2949.7	2941.3	2939.7	2933.0	2933.0	2924.6	2772.5	2772.5	2772.5	2769.1
7.5°	3041.7	3024.9	3014.9	3009.9	2999.9	3004.9	3011.6	2857.7	2859.4	2857.7	2861.1
10°	3101.9	3091.8	3080.1	3076.8	3070.1	3075.1	3085.1	2933.0	2938.0	2939.7	2943.0
12.5°	3160.4	3143.7	3128.6	3123.6	3120.3	3133.6	3145.3	2998.2	3003.2	3008.2	3008.2
15°	3232.3	3203.9	3183.8	3172.1	3165.4	3178.8	3195.5	3050.0	3051.7	3056.7	3055.0
17.5°	3354.4	3312.6	3265.7	3257.4	3235.6	3240.7	3244.0	3081.8	3075.1	3063.4	3043.3
20°	3543.3	3479.8	3416.2	3389.5	3346.0	3327.6	3290.8	3083.5	3041.7	3006.6	2976.5
22.5°	3814.2	3720.6	3652.0	3606.9	3518.2	3456.4	3356.0	3075.1	2996.5	2936.3	2889.5
25°	4252.3	4140.3	4034.9	3921.2	3782.4	3658.7	3511.5	3148.7	3026.6	2922.9	2832.6
27.5°	4678.7	4501.5	4339.3	4168.7	3973.1	3787.5	3580.1	3172.1	3033.3	2899.5	2752.4
30°	4998.1	4740.6	4494.8	4245.6	3989.8	3749.0	3514.9	3091.8	2926.3	2775.8	2620.3
32.5°	5192.1	4857.6	4538.3	4228.9	3927.9	3657.0	3394.5	2953.0	2770.8	2593.5	2428.0
35°	5376.0	4961.3	4565.0	4200.5	3856.0	3555.0	3272.4	2790.8	2573.5	2384.5	2175.5
37.5°	5603.4	5070.0	4581.7	4148.6	3750.7	3406.2	3095.2	2586.8	2369.5	2137.0	1939.7
40°	5876.0	5182.0	4565.0	4045.0	3586.8	3210.6	2881.1	2372.8	2130.3	1904.6	1710.6
42.5°	6135.2	5280.7	4521.5	3906.2	3407.9	3006.6	2685.5	2182.2	1939.7	1709.0	1516.7
45°	6327.5	5364.3	4499.8	3809.2	3270.8	2867.8	2513.3	2028.3	1772.5	1540.1	1344.4
47.5°	6461.2	5414.5	4489.8	3755.7	3175.4	2724.0	2356.1	1874.5	1605.3	1371.2	1180.5
50°	6531.5	5412.8	4464.7	3697.2	3035.0	2551.7	2193.9	1719.0	1451.4	1222.4	1048.4
52.5°	6549.9	5382.7	4411.2	3590.1	2864.4	2379.5	2020.0	1556.8	1316.0	1096.9	921.4
55°	6508.1	5309.1	4299.1	3411.2	2682.2	2197.2	1861.1	1429.7	1183.9	976.5	839.4
57.5°	6389.3	5178.7	4088.4	3165.4	2489.9	2028.3	1678.9	1275.9	1040.1	866.2	752.5
60°	6168.6	4902.8	3759.0	2874.5	2245.7	1770.8	1428.0	1075.2	887.9	757.5	665.5
62.5°	5760.6	4469.7	3295.8	2473.1	1894.6	1436.4	1140.4	857.8	717.4	632.1	575.2
65°	5103.4	3817.6	2759.1	1948.1	1439.7	1045.1	847.8	645.5	543.5	491.6	474.9
67.5°	4165.4	2948.0	2006.6	1352.8	974.9	732.4	590.3	471.6	423.1	403.0	396.3
70°	3028.3	2008.3	1299.3	854.5	643.8	511.7	446.5	379.6	352.8	347.8	347.8
72.5°	1901.3	1220.7	796.0	585.3	488.3	414.7	381.3	334.4	324.4	321.1	316.0
75°	1115.3	740.8	563.5	479.9	418.0	371.2	342.8	304.3	297.6	296.0	291.0
77.5°	710.7	533.4	454.8	409.7	377.9	336.1	311.0	270.9	269.2	267.5	265.9
80°	510.0	443.1	398.0	362.9	331.1	292.6	277.6	245.8	242.5	240.8	244.1
82.5°	386.3	366.2	347.8	321.1	277.6	249.2	237.4	215.7	217.4	209.0	207.3
85°	265.9	262.5	260.9	249.2	217.4	192.3	183.9	172.2	180.6	172.2	162.2
87.5°	130.4	128.8	118.7	140.5	130.4	103.7	93.6	103.7	115.4	112.0	103.7
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: P158853

CATALOG NUMBER: VTS-F12-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2
2.5°	2708.9	2702.2	2707.2	2703.9	2703.9	2702.2	2705.6	2700.5	2697.2	2700.5	2702.2
5°	2762.4	2754.1	2755.7	2744.0	2749.0	2737.3	2740.7	2732.3	2724.0	2720.6	2720.6
7.5°	2852.7	2844.4	2834.3	2832.6	2814.3	2807.6	2795.9	2789.2	2784.2	2772.5	2765.8
10°	2934.7	2921.3	2909.6	2907.9	2889.5	2872.8	2857.7	2844.4	2836.0	2819.3	2810.9
12.5°	3001.5	2988.2	2969.8	2959.7	2941.3	2921.3	2911.2	2891.2	2879.5	2861.1	2846.0
15°	3040.0	3016.6	2989.8	2971.4	2944.7	2922.9	2907.9	2892.8	2881.1	2857.7	2836.0
17.5°	3021.6	2983.1	2946.4	2912.9	2876.1	2856.1	2834.3	2815.9	2812.6	2785.8	2752.4
20°	2944.7	2899.5	2851.0	2805.9	2757.4	2729.0	2702.2	2673.8	2665.4	2633.7	2590.2
22.5°	2851.0	2799.2	2744.0	2688.8	2627.0	2586.8	2546.7	2511.6	2483.2	2436.3	2374.5
25°	2755.7	2678.8	2598.5	2528.3	2456.4	2406.2	2364.4	2326.0	2292.5	2217.3	2153.7
27.5°	2630.3	2509.9	2428.0	2347.7	2260.8	2195.6	2148.7	2095.2	2058.4	1971.5	1904.6
30°	2469.8	2349.4	2232.3	2152.1	2065.1	1994.9	1934.7	1857.8	1804.3	1740.7	1678.9
32.5°	2267.5	2147.1	2028.3	1938.0	1866.1	1779.2	1703.9	1630.4	1568.5	1506.6	1458.1
35°	2021.6	1904.6	1792.6	1702.3	1622.0	1553.4	1481.5	1418.0	1347.8	1280.9	1252.5
37.5°	1762.5	1637.0	1513.3	1434.7	1371.2	1322.7	1255.8	1204.0	1140.4	1100.3	1066.8
40°	1536.7	1402.9	1285.9	1219.0	1168.8	1113.7	1058.5	1018.3	973.2	933.1	908.0
42.5°	1346.1	1220.7	1120.4	1063.5	1003.3	943.1	901.3	867.9	839.4	809.3	779.2
45°	1170.5	1050.1	966.5	896.3	846.1	797.6	769.2	754.1	737.4	719.0	699.0
47.5°	1023.4	919.7	837.8	772.5	720.7	687.3	673.9	668.9	662.2	647.1	637.1
50°	911.3	826.0	742.4	683.9	640.4	623.7	608.7	603.7	595.3	590.3	583.6
52.5°	817.7	727.4	657.2	603.7	576.9	570.2	563.5	556.8	555.2	551.8	548.5
55°	740.8	662.2	597.0	556.8	543.5	538.4	536.8	530.1	528.4	528.4	523.4
57.5°	672.2	605.3	546.8	521.7	513.4	508.3	505.0	501.6	501.6	505.0	503.3
60°	602.0	545.1	510.0	496.6	491.6	483.3	474.9	471.6	473.2	481.6	481.6
62.5°	533.4	491.6	469.9	464.9	459.8	453.2	443.1	439.8	443.1	453.2	458.2
65°	458.2	439.8	433.1	429.7	426.4	421.4	414.7	411.4	413.0	418.0	424.7
67.5°	389.6	387.9	387.9	389.6	387.9	386.3	382.9	377.9	376.2	376.2	379.6
70°	347.8	347.8	352.8	352.8	351.2	351.2	346.1	341.1	337.8	334.4	336.1
72.5°	316.0	316.0	317.7	319.4	317.7	317.7	311.0	307.7	299.3	297.6	294.3
75°	289.3	285.9	285.9	284.3	282.6	284.3	277.6	269.2	265.9	264.2	260.9
77.5°	262.5	255.8	252.5	249.2	250.8	249.2	244.1	239.1	234.1	232.4	230.8
80°	232.4	222.4	217.4	209.0	214.0	215.7	212.4	207.3	205.7	204.0	202.3
82.5°	192.3	182.3	175.6	170.6	167.2	170.6	175.6	187.3	183.9	182.3	178.9
85°	150.5	133.8	125.4	127.1	118.7	120.4	135.4	142.1	142.1	145.5	142.1
87.5°	85.3	81.9	61.9	56.9	60.2	71.9	80.3	88.6	88.6	83.6	93.6
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: P158853

CATALOG NUMBER: VTS-F12-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2
2.5°	2702.2	2705.6	2707.2	2713.9	2717.3	2718.9	2720.6	2724.0	2725.6	2724.0	2732.3
5°	2715.6	2715.6	2712.3	2717.3	2718.9	2718.9	2715.6	2718.9	2718.9	2718.9	2727.3
7.5°	2750.7	2740.7	2735.7	2729.0	2724.0	2717.3	2708.9	2708.9	2707.2	2708.9	2713.9
10°	2787.5	2772.5	2754.1	2737.3	2722.3	2710.6	2695.5	2690.5	2688.8	2687.2	2700.5
12.5°	2815.9	2789.2	2760.7	2732.3	2702.2	2682.2	2657.1	2642.0	2640.3	2640.3	2657.1
15°	2795.9	2752.4	2697.2	2647.0	2620.3	2591.9	2563.4	2545.0	2543.4	2546.7	2556.7
17.5°	2695.5	2625.3	2576.8	2528.3	2493.2	2469.8	2451.4	2448.1	2454.7	2448.1	2461.4
20°	2525.0	2449.7	2416.3	2377.8	2364.4	2347.7	2321.0	2297.6	2297.6	2267.5	2275.8
22.5°	2304.2	2262.4	2219.0	2188.9	2178.8	2150.4	2122.0	2090.2	2086.9	2050.1	2045.1
25°	2073.5	2031.7	1996.6	1989.9	1959.8	1921.3	1894.6	1857.8	1849.4	1812.6	1807.6
27.5°	1837.7	1804.3	1769.2	1749.1	1732.4	1690.6	1667.1	1623.7	1607.0	1566.8	1561.8
30°	1613.6	1590.2	1548.4	1531.7	1499.9	1451.4	1401.3	1374.5	1361.1	1319.3	1306.0
32.5°	1402.9	1366.2	1334.4	1314.3	1274.2	1219.0	1173.9	1135.4	1110.3	1060.2	1046.8
35°	1202.3	1165.5	1150.4	1098.6	1063.5	1026.7	964.8	941.4	896.3	857.8	844.4
37.5°	1025.0	989.9	969.9	926.4	891.3	854.5	817.7	787.6	765.9	757.5	757.5
40°	872.9	854.5	829.4	797.6	774.2	747.5	727.4	717.4	715.7	719.0	727.4
42.5°	764.2	744.1	727.4	710.7	693.9	690.6	685.6	692.3	700.6	709.0	717.4
45°	682.2	665.5	655.5	648.8	647.1	652.1	662.2	672.2	687.3	697.3	704.0
47.5°	623.7	610.3	607.0	605.3	613.7	628.7	642.1	657.2	668.9	678.9	685.6
50°	573.6	561.8	560.2	558.5	570.2	583.6	595.3	615.4	623.7	630.4	635.4
52.5°	538.4	528.4	523.4	525.1	536.8	548.5	565.2	580.2	591.9	597.0	602.0
55°	510.0	506.7	495.0	500.0	511.7	526.7	543.5	560.2	571.9	580.2	588.6
57.5°	488.3	479.9	471.6	479.9	491.6	506.7	526.7	541.8	556.8	568.5	576.9
60°	464.9	458.2	451.5	459.8	471.6	486.6	501.6	521.7	540.1	551.8	560.2
62.5°	444.8	439.8	433.1	434.8	439.8	449.8	458.2	476.6	493.3	508.3	518.4
65°	416.4	414.7	404.7	406.3	409.7	419.7	426.4	443.1	459.8	473.2	481.6
67.5°	374.6	371.2	371.2	376.2	377.9	382.9	387.9	404.7	418.0	428.1	438.1
70°	332.8	331.1	331.1	334.4	332.8	337.8	344.5	359.5	376.2	386.3	396.3
72.5°	292.6	292.6	291.0	294.3	294.3	296.0	304.3	317.7	332.8	341.1	347.8
75°	257.5	255.8	255.8	255.8	257.5	257.5	265.9	277.6	292.6	297.6	307.7
77.5°	225.7	225.7	225.7	225.7	227.4	225.7	230.8	239.1	244.1	252.5	252.5
80°	199.0	197.3	199.0	200.7	200.7	199.0	199.0	200.7	202.3	202.3	202.3
82.5°	175.6	170.6	173.9	182.3	182.3	182.3	180.6	168.9	160.5	160.5	163.9
85°	140.5	140.5	142.1	153.8	155.5	148.8	155.5	138.8	122.1	117.1	120.4
87.5°	87.0	68.6	83.6	95.3	95.3	90.3	100.3	93.6	78.6	63.5	60.2
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: P158853
 CATALOG NUMBER: VTS-F12-LED-E1-SLL-8030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	0°
2.5°	2739.0	2740.7	2750.7	2755.7	2755.7	2762.4	2765.8	2775.8	2774.1	2774.1	2777.5	2.5°
5°	2735.7	2740.7	2750.7	2757.4	2760.7	2769.1	2775.8	2787.5	2785.8	2789.2	2790.8	5°
7.5°	2724.0	2737.3	2747.4	2760.7	2772.5	2779.1	2787.5	2797.5	2794.2	2795.9	2794.2	7.5°
10°	2713.9	2727.3	2747.4	2765.8	2782.5	2792.5	2797.5	2809.2	2807.6	2810.9	2810.9	10°
12.5°	2673.8	2697.2	2722.3	2750.7	2775.8	2802.5	2819.3	2844.4	2856.1	2871.1	2887.8	12.5°
15°	2571.8	2598.5	2638.7	2670.4	2718.9	2755.7	2804.2	2852.7	2896.2	2938.0	2986.5	15°
17.5°	2471.5	2483.2	2514.9	2558.4	2601.9	2657.1	2715.6	2802.5	2881.1	2966.4	3060.1	17.5°
20°	2285.8	2305.9	2327.7	2379.5	2431.3	2509.9	2581.8	2695.5	2810.9	2944.7	3088.5	20°
22.5°	2056.8	2076.8	2100.2	2158.8	2222.3	2302.6	2389.5	2516.6	2670.4	2844.4	3036.7	22.5°
25°	1809.3	1821.0	1839.4	1897.9	1936.4	2041.7	2147.1	2279.2	2446.4	2670.4	2894.5	25°
27.5°	1536.7	1558.5	1573.5	1600.3	1688.9	1779.2	1889.5	2031.7	2234.0	2463.1	2734.0	27.5°
30°	1275.9	1294.3	1285.9	1342.7	1401.3	1496.6	1615.3	1772.5	1966.5	2239.0	2551.7	30°
32.5°	1020.0	1033.4	1028.4	1068.5	1127.0	1222.4	1334.4	1504.9	1710.6	2001.6	2341.0	32.5°
35°	841.1	844.4	862.8	881.2	931.4	1008.3	1103.6	1252.5	1463.1	1730.7	2090.2	35°
37.5°	757.5	764.2	775.9	801.0	837.8	892.9	971.5	1086.9	1267.5	1503.3	1824.3	37.5°
40°	732.4	737.4	744.1	760.8	796.0	844.4	914.7	1011.7	1143.8	1342.7	1603.6	40°
42.5°	720.7	720.7	720.7	730.7	757.5	809.3	889.6	984.9	1100.3	1250.8	1461.5	42.5°
45°	704.0	704.0	702.3	707.3	725.7	777.6	864.5	971.5	1095.3	1239.1	1421.3	45°
47.5°	685.6	683.9	678.9	678.9	690.6	742.4	832.7	948.1	1083.6	1249.1	1444.8	47.5°
50°	635.4	635.4	635.4	640.4	650.5	697.3	794.3	916.3	1071.9	1255.8	1481.5	50°
52.5°	607.0	608.7	613.7	613.7	623.7	672.2	774.2	909.7	1078.5	1280.9	1528.4	52.5°
55°	593.6	598.6	603.7	603.7	612.0	662.2	767.5	914.7	1103.6	1332.7	1608.6	55°
57.5°	581.9	586.9	590.3	590.3	597.0	640.4	749.1	906.3	1118.7	1382.9	1707.3	57.5°
60°	560.2	563.5	565.2	565.2	566.9	603.7	707.3	866.2	1085.2	1379.5	1760.8	60°
62.5°	520.0	526.7	528.4	530.1	530.1	565.2	653.8	801.0	1013.3	1329.4	1745.7	62.5°
65°	489.9	493.3	498.3	501.6	508.3	531.7	602.0	722.4	919.7	1229.0	1662.1	65°
67.5°	443.1	448.1	453.2	459.8	466.5	481.6	536.8	633.8	792.6	1058.5	1474.8	67.5°
70°	401.3	403.0	408.0	416.4	418.0	426.4	466.5	533.4	648.8	849.5	1187.2	70°
72.5°	349.5	352.8	359.5	369.5	369.5	376.2	399.6	434.8	508.3	648.8	876.2	72.5°
75°	304.3	307.7	312.7	312.7	304.3	306.0	322.7	347.8	403.0	488.3	638.8	75°
77.5°	252.5	259.2	264.2	254.2	250.8	255.8	264.2	282.6	322.7	387.9	479.9	77.5°
80°	209.0	212.4	214.0	215.7	212.4	217.4	224.1	235.8	262.5	312.7	379.6	80°
82.5°	167.2	170.6	175.6	182.3	182.3	200.7	202.3	202.3	217.4	249.2	297.6	82.5°
85°	123.7	130.4	137.1	145.5	147.2	157.2	152.2	150.5	155.5	185.6	205.7	85°
87.5°	63.5	68.6	71.9	78.6	70.2	73.6	73.6	68.6	60.2	75.2	83.6	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



NUMBER: P158853

NUMBER: VTS-F12-LED-E1-SLL-8030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
2794.2	2794.2	2794.2	2794.2	2794.2	2794.2	2794.2
2780.8	2777.5	2780.8	2780.8	2785.8	2782.5	2959.7
2794.2	2790.8	2794.2	2797.5	2802.5	2802.5	2998.2
2795.9	2795.9	2792.5	2800.9	2807.6	2814.3	3035.0
2815.9	2815.9	2819.3	2820.9	2836.0	2852.7	3095.2
2897.9	2906.2	2921.3	2926.3	2953.0	2971.4	3249.0
3023.3	3070.1	3100.2	3110.2	3133.6	3168.8	3508.2
3150.4	3229.0	3310.9	3361.1	3391.2	3433.0	3825.9
3245.7	3392.8	3533.3	3658.7	3730.6	3812.5	4270.7
3254.0	3488.1	3725.6	3958.0	4150.3	4302.5	4872.7
3173.8	3481.4	3809.2	4165.4	4496.5	4770.7	5565.0
3071.8	3449.7	3867.7	4322.5	4757.3	5162.0	6075.0
2943.0	3396.2	3877.8	4389.4	4899.4	5386.0	6365.9
2747.4	3237.3	3757.4	4322.5	4914.5	5506.4	6553.2
2496.5	2996.5	3529.9	4173.7	4844.3	5554.9	6710.4
2240.7	2734.0	3307.5	3974.7	4732.2	5546.6	6773.9
1969.8	2459.8	3046.7	3762.4	4580.1	5469.7	6762.2
1785.9	2232.3	2807.6	3546.7	4411.2	5367.7	6683.6
1678.9	2070.1	2618.6	3349.3	4257.3	5245.6	6585.0
1677.2	2021.6	2518.3	3208.9	4101.8	5110.1	6451.2
1735.7	2051.7	2506.6	3148.7	4016.5	5011.5	6305.7
1804.3	2135.4	2568.4	3170.4	4014.9	4968.0	6203.7
1913.0	2277.5	2703.9	3264.1	4058.3	4961.3	6078.3
2051.7	2469.8	2948.0	3494.8	4227.2	5093.4	6086.7
2193.9	2695.5	3267.4	3889.5	4560.0	5401.1	6350.9
2245.7	2869.4	3591.8	4352.6	5058.3	5862.6	6896.0
2200.6	2909.6	3789.1	4712.2	5543.2	6402.7	7546.5
2033.4	2747.4	3708.9	4814.2	5822.5	6785.6	8197.0
1673.8	2344.4	3344.3	4585.1	5800.7	6864.2	8431.1
1227.4	1817.6	2718.9	3896.1	5157.0	6372.6	8079.9
886.2	1285.9	1963.1	2934.7	4076.7	5131.9	6777.3
635.4	891.3	1274.2	1928.0	2777.5	3573.4	4830.9
456.5	605.3	794.3	1157.1	1692.2	2193.9	3035.0
336.1	414.7	521.7	719.0	996.6	1277.5	1827.7
229.1	244.1	314.4	424.7	653.8	939.8	1240.7
87.0	98.7	115.4	173.9	292.6	336.1	237.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)