

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: P159075

Luminaire Tested: **VTS-F12-LED-E1-SLR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159075  
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-SLR  
Description: VENTUS LED SITE LUMINAIRE  
(12) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (84) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

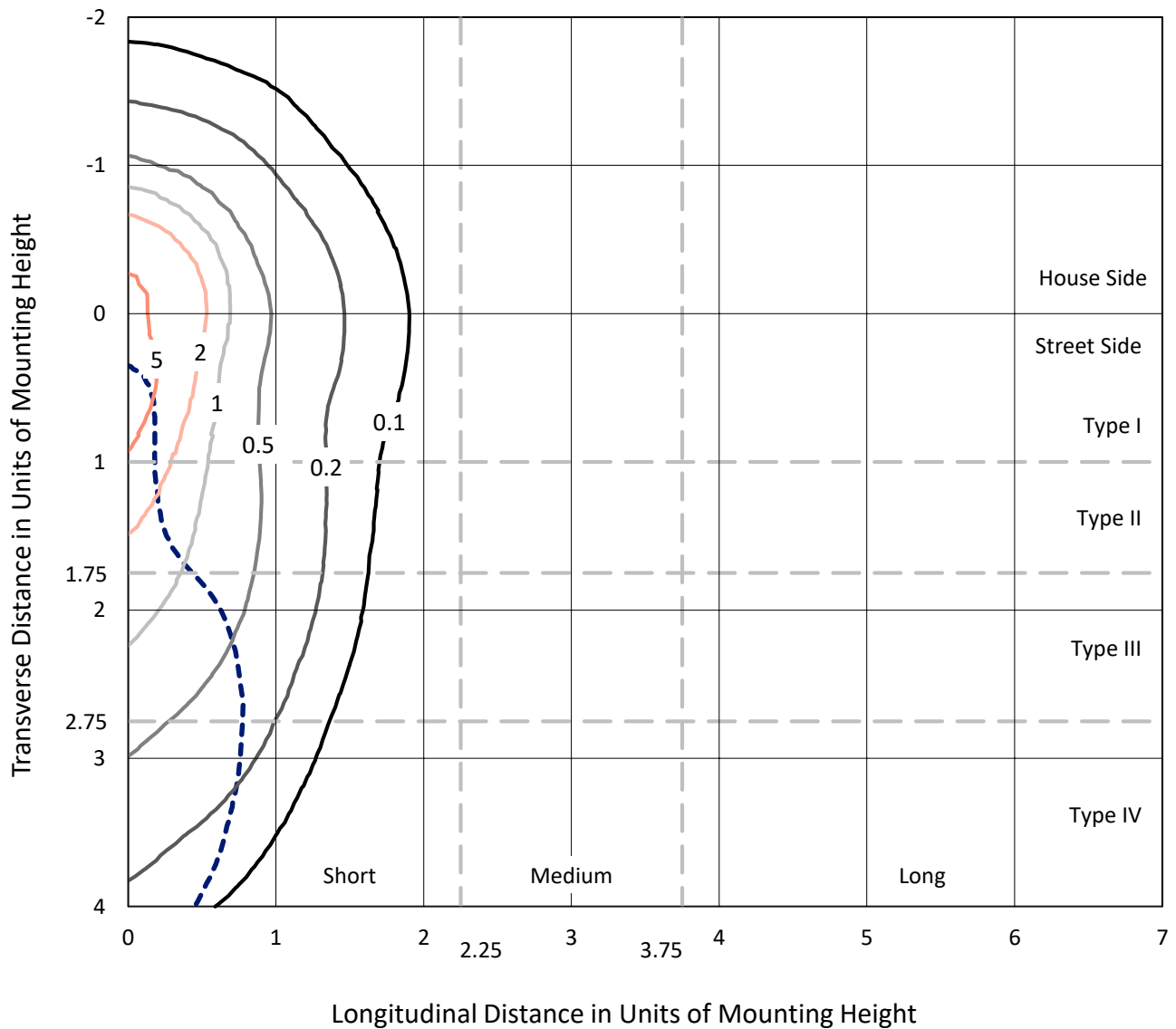
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26621 lumens  
Efficiency: N/A  
Efficacy: 86.8 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

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### Iso-Footcandle Lines of Horizontal Illumination

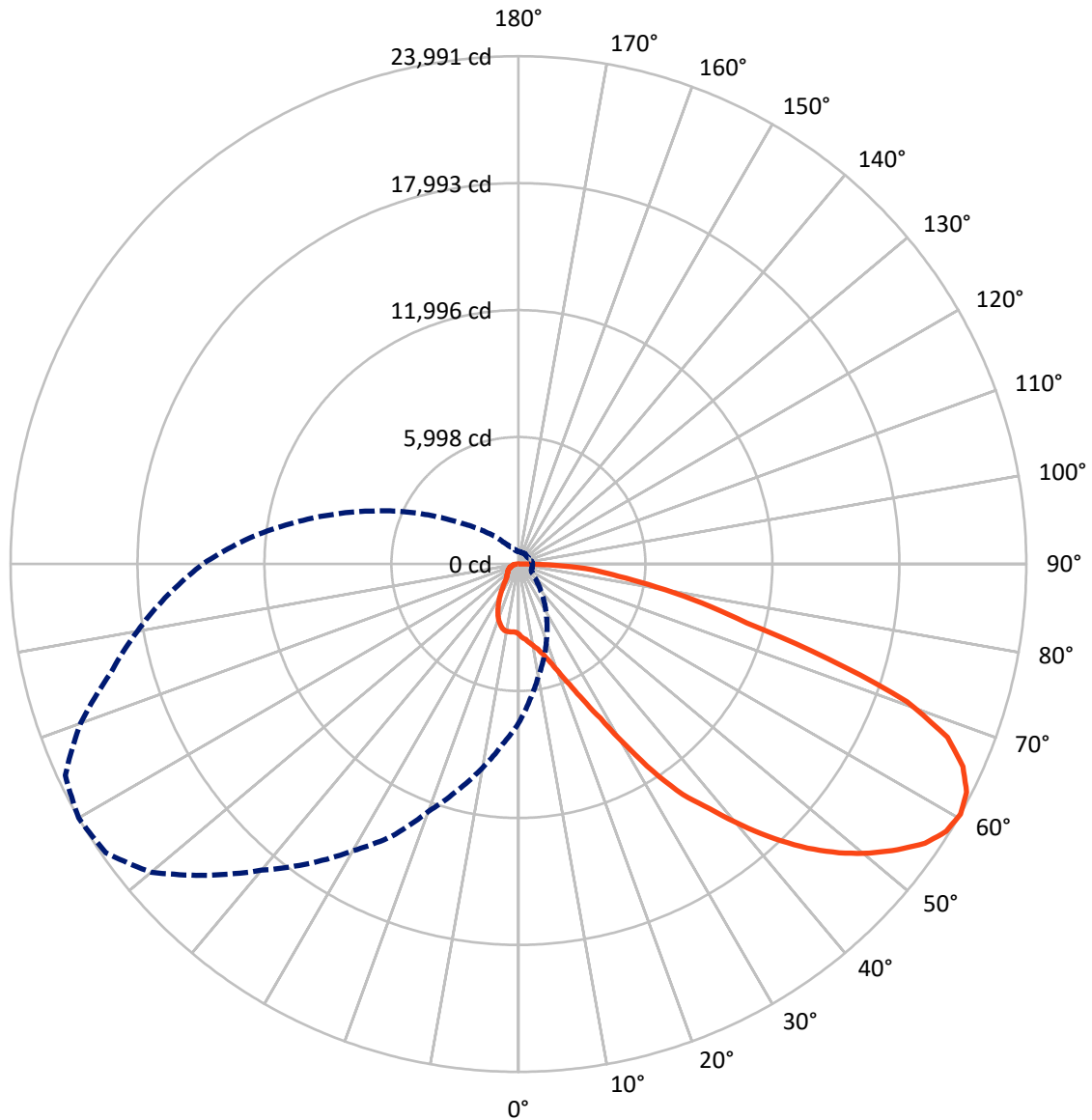
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5994.2	0.0	5994.2
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	20626.8	0.0	20626.8
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	26621.0	0.0	26621.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.6	1.2
10°-20°	1054.6	4.0
20°-30°	2001.2	7.5
30°-40°	3151.5	11.8
40°-50°	4398.8	16.5
50°-60°	5440.2	20.4
60°-70°	5639.1	21.2
70°-80°	3548.3	13.3
80°-90°	1060.7	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°	26621.0	100.0
0°-180°	26621.0	100.0



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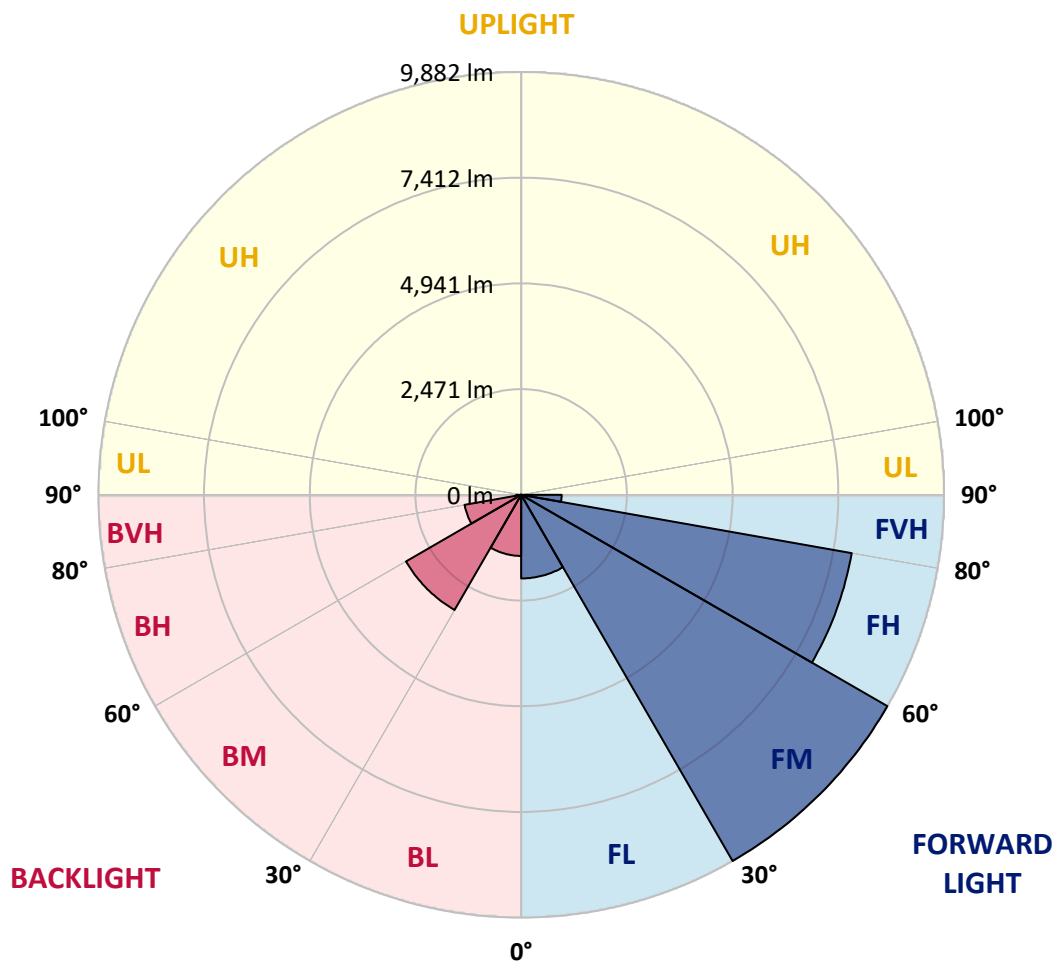
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1954.4	7.3			
FM	(30°-60°)	9882.1	37.1			
FH	(60°-80°)	7845.0	29.5			G4/12000
FVH	(80°-90°)	945.3	3.6			G5
BL	(0°-30°)	1428.0	5.4	B3/2500		
BM	(30°-60°)	3108.4	11.7	B3/5000		
BH	(60°-80°)	1342.4	5.0	B3/2500		G3/2500
BVH	(80°-90°)	115.4	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°	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7
2.5°	3506.8	3296.8	3300.8	3294.8	3294.8	3290.9	3294.8	3290.9	3286.9	3286.9	3288.9
5°	3552.4	3320.6	3320.6	3314.6	3310.7	3306.7	3310.7	3306.7	3304.7	3300.8	3302.8
7.5°	3596.0	3334.5	3326.5	3318.6	3308.7	3312.7	3312.7	3310.7	3312.7	3310.7	3314.6
10°	3667.3	3380.0	3360.2	3342.4	3340.4	3336.4	3336.4	3330.5	3330.5	3326.5	3328.5
12.5°	3849.6	3520.7	3498.9	3467.2	3461.3	3443.4	3433.5	3421.6	3401.8	3384.0	3370.1
15°	4156.7	3754.5	3712.9	3685.1	3673.3	3637.6	3582.1	3538.5	3481.1	3431.5	3380.0
17.5°	4533.1	4067.5	4018.0	3982.3	3922.9	3825.8	3732.7	3625.7	3514.8	3413.7	3320.6
20°	5060.1	4517.3	4420.2	4335.0	4186.4	4020.0	3845.6	3659.4	3489.0	3330.5	3193.8
22.5°	5773.4	5097.8	4917.5	4689.6	4414.2	4132.9	3855.5	3598.0	3370.1	3164.1	2981.8
25°	6593.6	5652.5	5327.6	4935.3	4513.3	4125.0	3760.4	3429.6	3164.1	2898.6	2700.5
27.5°	7197.9	6116.1	5636.7	5121.6	4582.7	4087.3	3639.6	3239.4	2918.4	2647.0	2407.2
30°	7542.7	6381.6	5805.1	5200.8	4594.5	4023.9	3487.0	3023.4	2652.9	2330.0	2100.1
32.5°	7764.6	6524.3	5822.9	5121.6	4451.9	3835.7	3255.2	2773.8	2371.6	2026.8	1783.1
35°	7950.8	6581.7	5739.7	4945.2	4182.4	3550.4	2958.0	2476.6	2050.6	1733.6	1484.0
37.5°	8026.1	6571.8	5607.0	4709.5	3918.9	3239.4	2654.9	2161.6	1781.2	1501.8	1287.8
40°	8012.2	6480.7	5426.7	4457.8	3609.9	2914.4	2333.9	1900.0	1591.0	1355.2	1198.7
42.5°	7919.1	6359.8	5226.6	4202.3	3326.5	2645.0	2116.0	1731.6	1482.0	1303.7	1167.0
45°	7802.2	6215.2	5044.3	3968.5	3102.7	2452.8	1989.2	1684.1	1468.1	1297.7	1151.1
47.5°	7643.7	6054.7	4860.0	3802.0	2983.8	2395.3	1987.2	1711.8	1480.0	1283.9	1123.4
50°	7471.3	5937.8	4759.0	3730.7	2969.9	2431.0	2056.5	1755.4	1487.9	1270.0	1085.7
52.5°	7350.5	5886.3	4757.0	3756.5	3043.2	2530.1	2137.8	1810.9	1517.6	1277.9	1077.8
55°	7201.9	5878.4	4808.5	3867.4	3203.7	2698.5	2266.6	1906.0	1579.1	1307.6	1083.7
57.5°	7211.8	6034.9	5008.6	4140.8	3493.0	2926.3	2431.0	2022.9	1638.5	1325.5	1073.8
60°	7524.8	6399.5	5402.9	4608.4	3871.4	3193.8	2599.4	2086.3	1634.5	1285.8	1026.3
62.5°	8170.7	6946.3	5993.3	5157.2	4255.7	3399.8	2660.8	2068.4	1575.1	1200.6	949.0
65°	8941.4	7586.2	6567.9	5583.2	4489.5	3447.4	2607.3	1969.4	1456.2	1089.7	855.9
67.5°	9712.1	8040.0	6898.7	5704.0	4394.4	3255.2	2409.2	1747.5	1254.1	939.1	750.9
70°	9989.5	8133.1	6873.0	5432.6	3962.5	2777.7	1983.2	1406.7	1006.5	768.7	632.0
72.5°	9573.4	7550.6	6110.2	4616.3	3221.5	2153.6	1454.2	1038.2	768.7	602.3	515.1
75°	8030.0	6080.5	4830.3	3477.1	2326.0	1523.6	1050.1	756.8	578.5	477.5	412.1
77.5°	5723.9	4234.0	3290.9	2284.4	1509.7	1056.0	752.9	568.6	459.7	382.4	334.8
80°	3596.0	2599.4	2005.0	1371.0	941.1	717.2	540.9	449.7	370.5	311.1	279.4
82.5°	2165.5	1513.7	1180.8	851.9	618.2	491.4	398.2	352.7	295.2	257.6	239.7
85°	1470.1	1113.5	774.7	503.2	372.5	289.3	271.4	243.7	219.9	184.3	178.3
87.5°	281.3	398.2	346.7	206.1	136.7	116.9	103.0	99.1	89.2	71.3	81.2
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°	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7
2.5°	3277.0	3273.0	3265.1	3265.1	3259.2	3247.3	3245.3	3237.4	3227.5	3229.5	3227.5
5°	3288.9	3281.0	3271.1	3267.1	3259.2	3247.3	3241.3	3231.4	3221.5	3221.5	3221.5
7.5°	3302.8	3292.9	3284.9	3271.1	3255.2	3243.3	3227.5	3215.6	3209.6	3207.7	3209.6
10°	3314.6	3308.7	3296.8	3277.0	3255.2	3231.4	3215.6	3199.7	3183.9	3185.9	3187.8
12.5°	3340.4	3320.6	3288.9	3259.2	3225.5	3195.8	3168.0	3148.2	3128.4	3128.4	3130.4
15°	3322.6	3265.1	3221.5	3164.1	3126.4	3078.9	3047.2	3029.3	3017.5	3013.5	3015.5
17.5°	3217.6	3148.2	3082.8	3031.3	2979.8	2942.2	2928.3	2916.4	2900.6	2908.5	2900.6
20°	3059.1	2973.9	2880.8	2819.3	2757.9	2732.2	2708.4	2696.5	2686.6	2722.3	2722.3
22.5°	2831.2	2728.2	2633.1	2557.8	2488.5	2460.7	2436.9	2423.1	2429.0	2472.6	2476.6
25°	2543.9	2419.1	2294.3	2248.7	2179.4	2157.6	2143.7	2141.7	2147.7	2191.3	2201.2
27.5°	2238.8	2108.1	2001.1	1896.1	1864.4	1846.5	1820.8	1850.5	1856.4	1904.0	1923.8
30°	1913.9	1773.2	1660.3	1591.0	1523.6	1533.5	1511.7	1547.4	1563.2	1612.7	1628.6
32.5°	1581.0	1448.3	1335.4	1266.0	1218.5	1224.4	1208.6	1240.3	1256.1	1315.6	1345.3
35°	1307.6	1194.7	1103.6	1044.1	1022.3	1000.5	996.6	1000.5	1016.4	1062.0	1115.4
37.5°	1151.1	1058.0	992.6	949.0	919.3	905.4	897.5	897.5	897.5	907.4	933.2
40°	1083.7	1000.5	943.1	901.5	881.7	873.7	867.8	861.8	851.9	848.0	850.0
42.5°	1054.0	958.9	897.5	865.8	853.9	853.9	853.9	850.0	840.1	830.1	820.2
45°	1024.3	921.3	859.9	838.1	832.1	834.1	834.1	834.1	826.2	814.3	796.5
47.5°	986.7	879.7	818.3	804.4	804.4	810.3	812.3	812.3	804.4	792.5	778.6
50°	941.1	826.2	770.7	758.8	752.9	752.9	752.9	752.9	746.9	739.0	729.1
52.5°	917.3	796.5	739.0	727.1	727.1	721.2	719.2	713.3	707.3	701.4	687.5
55°	909.4	784.6	725.1	715.2	715.2	709.3	703.3	697.4	687.5	677.6	663.7
57.5°	887.6	758.8	707.3	699.4	699.4	695.4	689.5	683.5	673.6	659.8	641.9
60°	838.1	715.2	671.6	669.7	669.7	667.7	663.7	663.7	653.8	639.9	618.2
62.5°	774.7	669.7	628.1	628.1	626.1	624.1	616.2	614.2	602.3	584.5	564.7
65°	713.3	630.0	602.3	594.4	590.4	584.5	580.5	570.6	560.7	544.8	525.0
67.5°	636.0	570.6	552.8	544.8	536.9	531.0	525.0	519.1	507.2	495.3	479.5
70°	552.8	505.2	495.3	493.3	483.4	477.5	475.5	469.6	457.7	445.8	426.0
72.5°	473.5	445.8	437.9	437.9	426.0	418.0	414.1	412.1	404.2	394.3	376.4
75°	382.4	362.6	360.6	370.5	370.5	364.6	360.6	364.6	352.7	346.7	328.9
77.5°	313.0	303.1	297.2	301.2	313.0	307.1	299.2	299.2	299.2	289.3	283.3
80°	265.5	257.6	251.6	255.6	253.6	251.6	247.7	239.7	239.7	239.7	237.8
82.5°	239.7	237.8	216.0	216.0	208.0	202.1	198.1	194.2	190.2	190.2	200.1
85°	180.3	186.2	174.4	172.4	162.5	154.5	146.6	142.7	138.7	144.6	164.4
87.5°	87.2	87.2	83.2	93.1	85.2	81.2	75.3	71.3	75.3	93.1	111.0
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°	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7
2.5°	3223.5	3221.5	3219.5	3215.6	3207.7	3205.7	3201.7	3201.7	3199.7	3195.8	3199.7
5°	3217.6	3221.5	3221.5	3219.5	3213.6	3217.6	3217.6	3223.5	3223.5	3227.5	3237.4
7.5°	3209.6	3219.5	3227.5	3233.4	3241.3	3247.3	3259.2	3277.0	3284.9	3298.8	3304.7
10°	3193.8	3211.6	3225.5	3243.3	3263.1	3284.9	3302.8	3330.5	3340.4	3360.2	3370.1
12.5°	3148.2	3177.9	3201.7	3237.4	3271.1	3304.7	3336.4	3372.1	3389.9	3411.7	3425.6
15°	3037.3	3071.0	3104.6	3136.3	3195.8	3261.2	3312.7	3360.2	3386.0	3413.7	3427.6
17.5°	2904.5	2926.3	2954.1	2995.7	3053.1	3110.6	3193.8	3261.2	3300.8	3332.5	3336.4
20°	2750.0	2781.7	2801.5	2817.4	2862.9	2902.5	2991.7	3069.0	3120.5	3158.1	3168.0
22.5°	2514.2	2547.9	2581.6	2593.5	2629.1	2680.6	2730.2	2813.4	2886.7	2942.2	2975.9
25°	2244.8	2276.5	2322.0	2357.7	2365.6	2407.2	2456.8	2551.9	2627.2	2716.3	2755.9
27.5°	1975.3	2003.1	2052.6	2072.4	2096.2	2137.8	2177.4	2256.7	2335.9	2438.9	2482.5
30°	1660.3	1719.7	1777.2	1814.8	1834.6	1884.2	1911.9	1989.2	2062.5	2137.8	2201.2
32.5°	1390.8	1444.3	1509.7	1557.3	1581.0	1618.7	1662.3	1727.7	1785.1	1858.4	1931.7
35°	1143.2	1216.5	1260.1	1301.7	1363.1	1380.9	1424.5	1484.0	1517.6	1596.9	1680.1
37.5°	968.8	1012.4	1056.0	1097.6	1149.1	1172.9	1214.5	1264.0	1303.7	1351.2	1426.5
40°	861.8	885.6	917.3	945.1	982.7	1012.4	1034.2	1075.8	1105.5	1153.1	1206.6
42.5°	812.3	818.3	822.2	842.0	861.8	881.7	905.4	923.3	958.9	994.6	1028.3
45°	784.6	772.7	766.7	768.7	776.7	788.5	808.4	828.2	851.9	873.7	893.5
47.5°	760.8	745.0	727.1	717.2	719.2	723.2	739.0	754.9	766.7	784.6	792.5
50°	705.3	691.5	675.6	661.7	663.7	665.7	679.6	691.5	699.4	705.3	715.2
52.5°	669.7	649.9	636.0	622.1	620.1	626.1	638.0	649.9	653.8	657.8	659.8
55°	643.9	624.1	606.3	592.4	586.5	600.3	604.3	620.1	626.1	626.1	628.1
57.5°	624.1	600.3	582.5	568.6	558.7	568.6	578.5	596.4	598.3	594.4	594.4
60°	594.4	576.5	558.7	544.8	534.9	542.9	550.8	570.6	570.6	560.7	558.7
62.5°	542.9	533.0	521.1	515.1	513.1	521.1	527.0	542.9	536.9	525.0	521.1
65°	505.2	497.3	485.4	481.4	479.5	491.4	493.3	503.2	495.3	489.4	487.4
67.5°	459.7	453.7	447.8	445.8	439.8	439.8	443.8	449.7	445.8	445.8	447.8
70°	408.1	400.2	394.3	396.3	392.3	392.3	394.3	398.2	396.3	400.2	404.2
72.5°	360.6	350.7	348.7	348.7	344.7	346.7	346.7	348.7	352.7	354.6	364.6
75°	315.0	305.1	305.1	303.1	303.1	303.1	305.1	309.1	313.0	315.0	319.0
77.5°	273.4	267.5	269.5	267.5	267.5	267.5	267.5	273.4	275.4	277.4	283.3
80°	235.8	235.8	237.8	237.8	235.8	233.8	235.8	239.7	241.7	243.7	245.7
82.5°	214.0	216.0	216.0	216.0	206.1	202.1	208.0	212.0	216.0	217.9	221.9
85°	184.3	176.3	184.3	182.3	168.4	166.4	166.4	168.4	172.4	168.4	168.4
87.5°	118.9	107.0	112.9	112.9	99.1	81.2	103.0	111.0	99.1	105.0	105.0
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: P159075

CATALOG NUMBER: VTS-F12-LED-E1-SLR

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7
2.5°	3205.7	3201.7	3203.7	3203.7	3207.7	3201.7	3209.6	3217.6	3219.5	3219.5	3221.5
5°	3247.3	3243.3	3257.2	3251.2	3265.1	3263.1	3273.0	3281.0	3284.9	3284.9	3284.9
7.5°	3312.7	3326.5	3334.5	3356.3	3358.2	3370.1	3380.0	3389.9	3386.0	3388.0	3386.0
10°	3386.0	3403.8	3423.6	3445.4	3447.4	3461.3	3477.1	3487.0	3483.1	3481.1	3475.1
12.5°	3449.4	3461.3	3485.0	3506.8	3518.7	3540.5	3556.4	3564.3	3564.3	3558.3	3552.4
15°	3445.4	3463.2	3489.0	3520.7	3542.5	3574.2	3601.9	3619.8	3621.7	3615.8	3613.8
17.5°	3358.2	3384.0	3407.8	3451.4	3491.0	3534.6	3580.1	3605.9	3629.7	3643.5	3651.5
20°	3201.7	3233.4	3267.1	3324.6	3378.0	3435.5	3489.0	3526.6	3562.3	3603.9	3653.4
22.5°	3017.5	3065.0	3112.6	3185.9	3251.2	3316.6	3378.0	3423.6	3479.1	3550.4	3643.5
25°	2801.5	2851.0	2910.5	2995.7	3078.9	3174.0	3265.1	3356.3	3463.2	3586.1	3730.7
27.5°	2545.9	2601.4	2678.7	2781.7	2876.8	2973.9	3116.5	3261.2	3435.5	3594.0	3758.4
30°	2292.3	2363.6	2446.9	2549.9	2645.0	2783.7	2926.3	3104.6	3288.9	3467.2	3663.3
32.5°	2018.9	2108.1	2211.1	2296.3	2403.3	2543.9	2686.6	2876.8	3072.9	3282.9	3498.9
35°	1755.4	1840.6	1921.8	2016.9	2123.9	2256.7	2395.3	2577.6	2825.3	3049.2	3306.7
37.5°	1487.9	1567.2	1624.6	1699.9	1793.0	1939.7	2088.2	2298.3	2532.1	2807.4	3065.0
40°	1254.1	1319.5	1384.9	1444.3	1523.6	1662.3	1820.8	2026.8	2256.7	2524.1	2811.4
42.5°	1067.9	1117.4	1188.8	1260.1	1327.4	1446.3	1594.9	1797.0	2024.8	2298.3	2585.5
45°	911.4	945.1	1002.5	1062.0	1145.2	1244.2	1386.9	1592.9	1824.7	2100.1	2403.3
47.5°	798.4	814.3	853.9	915.3	992.6	1089.7	1212.5	1398.8	1624.6	1902.0	2221.0
50°	721.2	739.0	758.8	810.3	879.7	978.7	1079.8	1242.2	1448.3	1719.7	2036.7
52.5°	667.7	675.6	683.5	715.2	778.6	861.8	968.8	1091.7	1299.7	1559.3	1844.6
55°	636.0	638.0	643.9	659.8	707.3	784.6	877.7	994.6	1157.1	1402.7	1694.0
57.5°	598.3	602.3	608.2	618.2	647.9	717.2	796.5	891.6	1026.3	1232.3	1511.7
60°	562.7	572.6	582.5	588.4	604.3	645.9	713.3	788.5	897.5	1052.0	1274.0
62.5°	525.0	536.9	544.8	550.8	556.7	582.5	632.0	681.6	748.9	850.0	1016.4
65°	491.4	499.3	505.2	509.2	513.1	521.1	542.9	562.7	582.5	643.9	764.8
67.5°	453.7	457.7	459.7	461.6	459.7	459.7	461.6	469.6	477.5	501.3	558.7
70°	410.1	416.1	416.1	418.0	418.0	412.1	412.1	412.1	412.1	418.0	449.7
72.5°	368.5	376.4	376.4	378.4	376.4	374.5	374.5	374.5	380.4	384.4	396.3
75°	328.9	336.8	334.8	336.8	338.8	338.8	342.8	344.7	350.7	352.7	360.6
77.5°	289.3	295.2	297.2	295.2	299.2	303.1	311.1	315.0	317.0	319.0	321.0
80°	251.6	255.6	253.6	247.7	257.6	263.5	275.4	289.3	285.3	287.3	291.2
82.5°	208.0	202.1	198.1	202.1	208.0	216.0	227.8	245.7	247.7	257.6	255.6
85°	160.5	142.7	140.7	150.6	148.6	158.5	178.3	192.2	204.1	214.0	204.1
87.5°	95.1	85.2	71.3	67.4	73.3	97.1	101.0	122.8	132.7	136.7	122.8
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: P159075  
 CATALOG NUMBER: VTS-F12-LED-E1-SLR

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7
2.5°	3401.8	3411.7	3411.7	3415.7	3421.6	3423.6	3431.5	3445.4	3447.4	3447.4	3453.3
5°	3465.2	3475.1	3475.1	3483.1	3485.0	3494.9	3504.8	3520.7	3528.6	3526.6	3552.4
7.5°	3568.2	3560.3	3554.4	3566.3	3572.2	3584.1	3603.9	3617.8	3631.6	3653.4	3689.1
10°	3655.4	3643.5	3637.6	3645.5	3649.5	3663.3	3675.2	3695.0	3728.7	3762.4	3806.0
12.5°	3726.7	3712.9	3697.0	3701.0	3706.9	3724.8	3744.6	3770.3	3819.9	3863.5	3928.8
15°	3786.2	3766.4	3750.5	3758.4	3772.3	3796.1	3829.8	3875.3	3956.6	4031.9	4119.0
17.5°	3843.6	3839.7	3833.7	3859.5	3869.4	3924.9	3974.4	4057.6	4168.6	4281.5	4406.3
20°	3899.1	3942.7	3964.5	4016.0	4047.7	4123.0	4198.3	4299.3	4440.0	4594.5	4764.9
22.5°	3976.4	4095.3	4168.6	4273.6	4327.1	4408.3	4519.3	4652.0	4808.5	5006.6	5224.6
25°	4160.6	4335.0	4481.6	4646.1	4780.8	4905.6	5038.3	5198.8	5424.7	5605.0	5890.3
27.5°	4241.9	4487.6	4707.5	4939.3	5141.4	5333.6	5543.6	5737.7	6005.2	6248.9	6593.6
30°	4164.6	4442.0	4727.3	5030.4	5325.6	5616.9	5922.0	6219.2	6528.3	6869.0	7235.6
32.5°	4022.0	4333.0	4654.0	5010.6	5377.1	5755.6	6151.8	6583.7	7019.6	7443.6	7818.1
35°	3877.3	4212.2	4568.8	4976.9	5408.8	5878.4	6369.8	6916.6	7493.1	8030.0	8519.4
37.5°	3667.3	4035.8	4444.0	4915.5	5428.7	6007.2	6639.2	7312.8	8041.9	8780.9	9422.9
40°	3413.7	3804.0	4249.8	4792.7	5408.8	6139.9	6962.1	7826.0	8763.1	9664.6	10453.1
42.5°	3181.9	3562.3	4037.8	4628.2	5357.3	6256.8	7269.2	8345.1	9454.6	10463.0	11493.3
45°	2977.8	3397.9	3875.3	4513.3	5331.6	6355.9	7497.1	8733.4	10003.4	11204.0	12420.5
47.5°	2791.6	3227.5	3762.4	4449.9	5319.7	6415.3	7655.6	8987.0	10393.7	11772.6	13185.3
50°	2599.4	3023.4	3596.0	4380.6	5290.0	6413.3	7738.8	9159.4	10667.1	12214.5	13712.3
52.5°	2393.4	2819.3	3393.9	4253.8	5226.6	6377.7	7760.6	9276.3	10883.1	12485.9	14160.1
55°	2205.1	2603.4	3177.9	4041.8	5093.8	6290.5	7711.1	9325.8	11035.6	12755.4	14475.1
57.5°	1989.2	2403.3	2950.1	3750.5	4844.2	6136.0	7570.4	9256.4	11079.2	12935.6	14724.7
60°	1692.0	2098.2	2660.8	3405.8	4453.9	5809.1	7308.9	9046.4	10940.5	12967.3	14903.0
62.5°	1351.2	1701.9	2244.8	2930.3	3905.1	5295.9	6825.4	8574.9	10508.6	12670.2	14811.9
65°	1004.5	1238.3	1705.9	2308.2	3269.1	4523.2	6046.8	7784.4	9664.6	11844.0	14239.3
67.5°	699.4	867.8	1155.1	1602.8	2377.5	3493.0	4935.3	6550.0	8358.9	10314.4	13050.6
70°	529.0	606.3	762.8	1012.4	1539.4	2379.5	3588.1	5026.5	6704.6	8588.8	11166.4
72.5°	451.7	491.4	578.5	693.4	943.1	1446.3	2252.7	3459.3	4947.2	6480.7	8567.0
75°	406.2	439.8	495.3	568.6	667.7	877.7	1321.5	2189.3	3277.0	4340.9	5977.5
77.5°	368.5	398.2	447.8	485.4	538.9	632.0	842.0	1309.6	1963.4	2682.6	3708.9
80°	328.9	346.7	392.3	429.9	471.5	525.0	604.3	822.2	1127.3	1589.0	2187.3
82.5°	281.3	295.2	328.9	380.4	412.1	433.9	457.7	544.8	675.6	861.8	1214.5
85°	217.9	227.8	257.6	295.2	309.1	311.1	315.0	338.8	420.0	645.9	1046.1
87.5°	111.0	122.8	154.5	166.4	140.7	152.6	154.5	164.4	217.9	354.6	360.6
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: P159075  
 CATALOG NUMBER: VTS-F12-LED-E1-SLR

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	0°
2.5°	3453.3	3459.3	3473.1	3471.2	3481.1	3481.1	3491.0	3485.0	3491.0	3500.9		2.5°
5°	3552.4	3562.3	3582.1	3582.1	3584.1	3578.2	3590.0	3598.0	3588.1	3584.1	3586.1	5°
7.5°	3697.0	3712.9	3728.7	3744.6	3756.5	3750.5	3752.5	3734.7	3730.7	3716.8	3699.0	7.5°
10°	3837.7	3881.3	3911.0	3938.7	3940.7	3934.8	3936.8	3907.0	3901.1	3873.4	3855.5	10°
12.5°	3982.3	4037.8	4085.4	4115.1	4132.9	4136.9	4138.9	4138.9	4111.1	4087.3	4045.7	12.5°
15°	4196.3	4293.4	4366.7	4398.4	4424.2	4447.9	4453.9	4461.8	4440.0	4408.3	4402.4	15°
17.5°	4535.1	4626.2	4723.3	4808.5	4866.0	4869.9	4919.5	4915.5	4961.1	4925.4	4915.5	17.5°
20°	4937.3	5135.4	5236.5	5349.4	5414.8	5446.5	5561.4	5525.7	5559.4	5616.9	5559.4	20°
22.5°	5440.5	5692.2	5838.8	5993.3	6100.3	6177.6	6260.8	6326.2	6417.3	6460.9	6421.3	22.5°
25°	6108.2	6395.5	6569.9	6783.8	6954.2	7092.9	7237.5	7411.9	7409.9	7514.9	7588.2	25°
27.5°	6875.0	7241.5	7495.1	7871.5	8018.2	8251.9	8499.6	8769.1	8816.6	8953.3	9022.7	27.5°
30°	7596.2	8049.9	8553.1	9000.9	9508.1	9854.8	10142.1	10332.3	10619.6	10548.2	10508.6	30°
32.5°	8261.9	8866.1	9583.4	10318.4	11122.8	11671.6	12178.8	12414.6	12592.9	12214.5	11713.2	32.5°
35°	9125.7	9848.8	10669.1	11576.5	12598.8	13377.5	13900.5	13973.8	13872.8	13387.4	12557.2	35°
37.5°	10195.6	10954.4	11887.6	12846.5	13932.2	14663.3	15259.7	15366.7	15099.2	14233.4	13361.6	37.5°
40°	11251.6	12141.2	13153.6	14288.8	15414.2	16218.6	16816.9	16848.6	16412.8	15400.3	14380.0	40°
42.5°	12406.6	13379.4	14506.8	15764.9	16927.9	17742.2	18174.1	18310.8	17694.6	16396.9	15418.2	42.5°
45°	13403.2	14566.2	15822.3	17159.7	18376.2	19148.9	19588.7	19545.1	18800.2	17518.3	16371.1	45°
47.5°	14374.0	15653.9	16977.4	18398.0	19606.5	20387.2	20838.9	20799.3	19854.2	18378.2	17116.1	47.5°
50°	15237.9	16626.7	18041.4	19559.0	20763.6	21478.8	22031.6	21857.3	20662.6	19069.6	17595.6	50°
52.5°	15838.2	17387.5	18865.6	20506.0	21746.3	22423.9	23127.2	22566.5	21140.0	19493.6	17853.1	52.5°
55°	16218.6	17910.6	19452.0	21266.8	22485.3	23295.7	23749.4	22952.9	21324.3	19610.5	17942.3	55°
57.5°	16476.2	18197.9	19796.7	21706.7	23151.0	23830.6	23941.5	22966.8	21205.4	19426.3	17853.1	57.5°
60°	16603.0	18283.1	19953.3	22015.8	23618.6	23991.1	23789.0	22645.8	20795.3	18885.4	17278.6	60°
62.5°	16589.1	18176.1	19872.0	22118.8	23711.7	23759.3	23299.6	22099.0	20040.4	17750.1	16323.6	62.5°
65°	16236.4	17785.8	19414.4	21736.4	23277.8	23073.8	22495.2	21072.7	18572.3	16268.1	15546.9	65°
67.5°	15220.0	16706.0	18217.7	20484.2	22055.4	21857.3	20981.5	19055.8	16866.5	14956.5	14568.2	67.5°
70°	13520.1	14780.2	16107.6	18098.8	19747.2	19479.7	17948.2	16777.3	15176.5	13440.9	13306.1	70°
72.5°	11303.1	12258.1	13220.9	14702.9	15838.2	15291.4	14328.5	14267.1	12973.3	11647.8	11675.6	72.5°
75°	8840.4	9557.6	10007.3	10879.1	11634.0	11144.6	11202.0	11542.8	11116.8	10072.7	9733.9	75°
77.5°	6405.4	7092.9	7235.6	7752.7	8283.6	8840.4	9577.4	10379.8	10514.5	9928.1	8699.7	77.5°
80°	4192.3	4949.2	4667.8	4852.1	5599.0	6615.4	7960.7	9282.2	9735.9	9208.9	7697.2	80°
82.5°	2472.6	3532.6	3084.8	3399.8	3873.4	4759.0	5688.2	6684.8	7443.6	6882.9	6429.2	82.5°
85°	1878.2	2785.7	2950.1	3332.5	3487.0	3524.7	3687.1	4012.1	4404.3	4551.0	4539.1	85°
87.5°	978.7	2165.5	2431.0	2248.7	2098.2	1818.8	1418.6	1527.6	1396.8	1909.9	1808.9	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°



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**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
3310.7	3310.7	3310.7	3310.7	3310.7	3310.7	3310.7
3502.9	3496.9	3500.9	3502.9	3502.9	3502.9	3506.8
3584.1	3568.2	3562.3	3562.3	3560.3	3554.4	3552.4
3671.3	3643.5	3633.6	3621.7	3611.8	3605.9	3596.0
3827.8	3804.0	3754.5	3726.7	3701.0	3683.2	3667.3
4037.8	4004.1	3956.6	3920.9	3881.3	3869.4	3849.6
4362.7	4333.0	4291.4	4251.8	4228.0	4186.4	4156.7
4869.9	4810.5	4768.9	4717.4	4659.9	4574.7	4533.1
5537.6	5418.7	5335.5	5290.0	5175.1	5161.2	5060.1
6304.4	6268.7	6141.9	6086.4	5975.5	5931.9	5773.4
7451.5	7423.8	7164.2	7136.5	6966.1	6839.3	6593.6
8959.3	8731.4	8438.2	8234.1	7942.9	7616.0	7197.9
10276.8	9811.2	9363.4	8887.9	8485.7	8016.2	7542.7
11116.8	10492.8	9916.2	9428.8	8931.5	8372.8	7764.6
11853.9	11223.8	10595.8	10019.2	9416.9	8701.7	7950.8
12735.5	12109.5	11402.2	10591.8	9819.1	8943.4	8026.1
13639.0	12905.9	12022.3	11029.7	10058.9	9062.3	8012.2
14564.2	13627.1	12452.2	11320.9	10211.4	9080.1	7919.1
15315.1	14130.3	12771.2	11469.5	10243.1	9018.7	7802.2
15846.1	14453.3	12913.9	11521.0	10203.5	8921.6	7643.7
16149.2	14629.6	12949.5	11483.4	10122.3	8782.9	7471.3
16260.2	14683.1	12913.9	11406.1	10048.9	8634.3	7350.5
16248.3	14653.4	12783.1	11225.8	9852.8	8436.2	7201.9
16024.4	14378.0	12515.6	11009.9	9686.4	8345.1	7211.8
15644.0	14203.7	12436.4	11053.4	9773.6	8541.2	7524.8
15471.7	14552.4	12882.2	11489.3	10221.3	9101.9	8170.7
15374.6	15119.0	13520.1	11958.9	10752.3	9781.5	8941.4
14978.3	15281.5	13882.7	12226.4	11225.8	10463.0	9712.1
14338.4	14903.0	13607.3	12174.8	11487.3	10986.1	9989.5
13003.0	13599.4	12380.9	11416.0	11160.4	10994.0	9573.4
10534.4	10843.4	10150.0	9932.1	10027.2	10029.1	8030.0
7768.5	7582.3	7269.2	7285.1	7925.0	7826.0	5723.9
6342.0	5190.9	4747.1	4915.5	5706.0	5280.1	3596.0
5902.2	4630.2	3821.9	3861.5	4309.2	3401.8	2165.5
4772.9	4220.1	3384.0	3037.3	2948.1	2266.6	1470.1
1997.1	1836.6	1367.1	1232.3	1010.4	618.2	281.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)