

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: P157905

Luminaire Tested: **VTS-F05-LED-E1-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157905
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33711)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F05-LED-E1-RW
Description: VENTUS LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (35) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

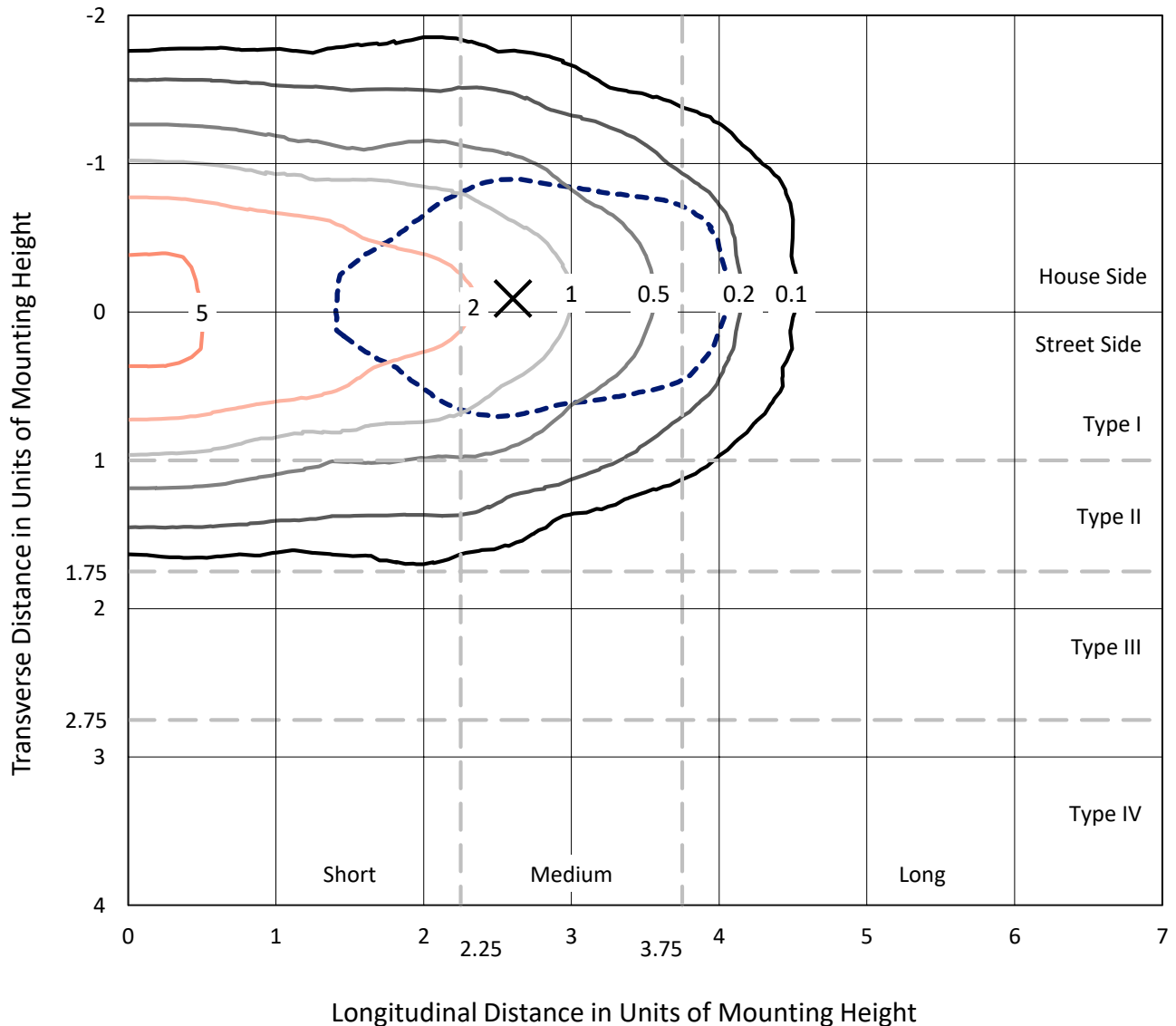
Lumens per Lamp: N/A
Luminaire Lumens: 12859.3 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 133.3
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

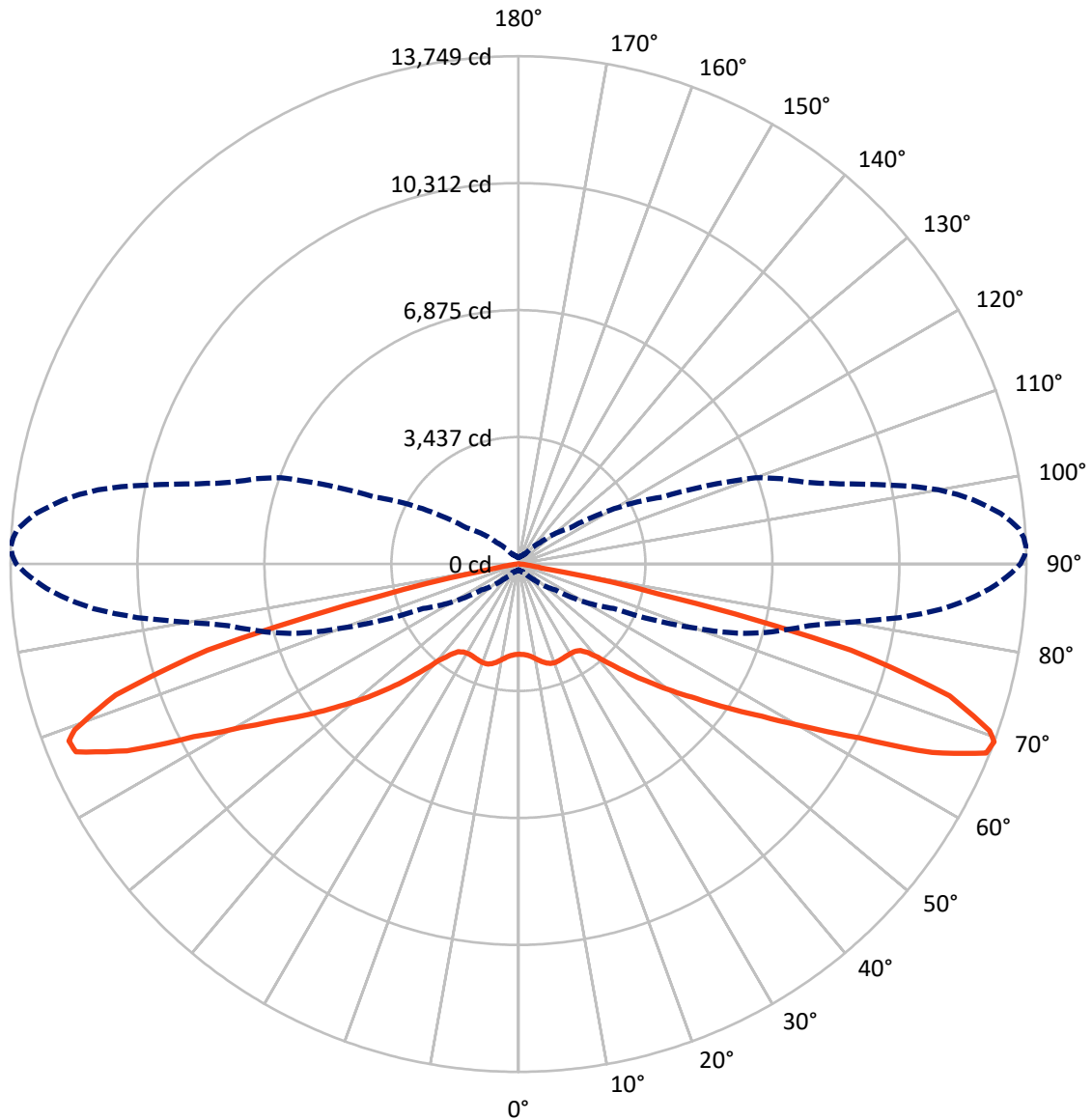
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6819.9	0.0	6819.9
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	6039.3	0.0	6039.3
	% Fixture	47.0	0.0	47.0
Total	Lumens	12859.3	0.0	12859.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.0	1.9
10°-20°	755.1	5.9
20°-30°	1225.0	9.5
30°-40°	1526.7	11.9
40°-50°	1900.9	14.8
50°-60°	2344.3	18.2
60°-70°	2911.5	22.6
70°-80°	1789.0	13.9
80°-90°	167.7	1.3
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°	12859.3	100.0
0°-180°	12859.3	100.0



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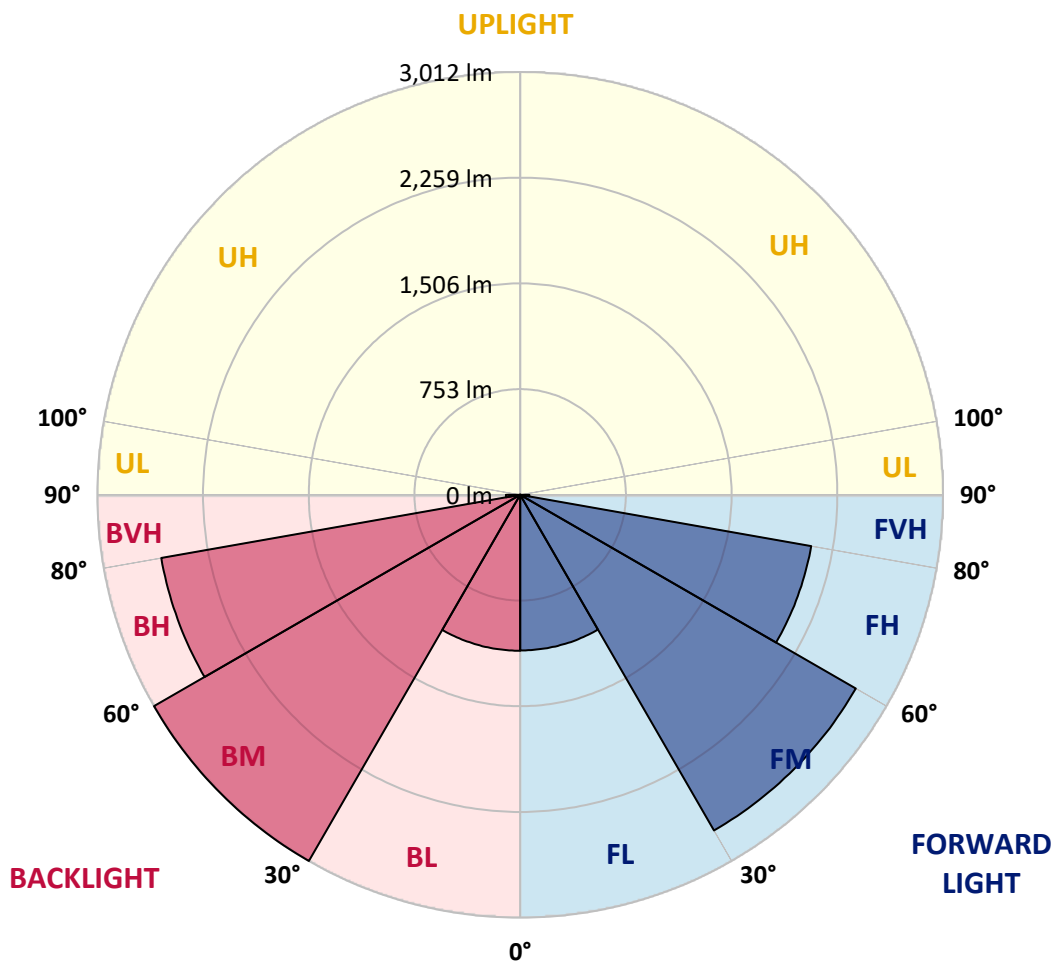
CATALOG NUMBER: VTS-F05-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1108.4	8.6			
FM	(30°-60°)	2760.4	21.5			
FH	(60°-80°)	2104.9	16.4			G2/5000
FVH	(80°-90°)	65.7	0.5			G1/100
BL	(0°-30°)	1110.7	8.6	B3/2500		
BM	(30°-60°)	3011.6	23.4	B3/5000		
BH	(60°-80°)	2595.6	20.2	B4/5000		G4/5000
BVH	(80°-90°)	102.0	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7
2.5°	2481.5	2474.9	2480.7	2481.5	2480.7	2480.7	2473.3	2471.6	2461.7	2464.2	2463.4
5°	2515.4	2512.9	2517.0	2518.7	2520.3	2517.0	2511.2	2508.8	2502.2	2499.7	2498.9
7.5°	2546.7	2542.6	2549.2	2555.0	2559.1	2560.0	2560.8	2556.7	2556.7	2553.3	2553.3
10°	2573.2	2569.9	2580.6	2588.0	2601.2	2608.7	2616.9	2622.7	2626.0	2626.8	2626.0
12.5°	2584.7	2582.2	2599.6	2621.9	2646.6	2664.0	2684.6	2699.5	2703.6	2702.8	2706.9
15°	2564.9	2566.6	2593.0	2636.7	2689.6	2733.3	2762.2	2774.6	2777.9	2779.5	2780.4
17.5°	2511.2	2514.5	2552.5	2623.5	2716.0	2795.2	2838.2	2838.2	2831.6	2831.6	2830.7
20°	2425.4	2428.7	2478.2	2580.6	2716.8	2838.2	2899.2	2886.9	2862.1	2857.1	2852.2
22.5°	2306.5	2319.7	2374.2	2493.1	2681.3	2850.5	2937.2	2919.1	2880.3	2869.5	2862.1
25°	2172.0	2170.3	2235.5	2369.3	2595.5	2820.8	2947.9	2944.6	2903.4	2891.8	2878.6
27.5°	2018.4	2023.4	2083.6	2219.0	2464.2	2735.0	2929.8	2973.5	2939.7	2928.1	2915.8
30°	1860.7	1865.7	1922.6	2080.3	2314.8	2612.0	2892.6	3001.6	2988.4	2979.3	2971.1
32.5°	1702.2	1703.9	1771.6	1940.8	2188.5	2465.0	2836.5	3027.2	3045.4	3041.2	3037.9
35°	1553.6	1555.3	1628.8	1800.5	2063.8	2339.5	2768.8	3064.3	3123.0	3127.9	3131.2
37.5°	1409.2	1411.6	1486.8	1666.7	1940.8	2244.6	2693.7	3121.3	3231.9	3250.1	3253.4
40°	1265.5	1268.0	1339.8	1530.5	1816.2	2161.2	2635.9	3201.4	3378.9	3403.6	3429.2
42.5°	1128.5	1137.6	1198.7	1381.1	1677.5	2058.0	2611.1	3298.8	3553.1	3591.9	3620.8
45°	1000.5	1001.4	1070.7	1241.6	1513.2	1918.5	2594.6	3409.4	3747.9	3806.5	3846.1
47.5°	863.5	873.4	946.1	1112.0	1359.6	1746.0	2541.8	3539.0	3960.0	4028.6	4108.6
50°	730.6	744.6	814.8	979.1	1219.3	1567.7	2399.8	3690.9	4198.6	4287.8	4380.2
52.5°	602.6	601.8	676.1	847.0	1078.1	1416.6	2169.5	3850.2	4474.3	4570.1	4670.0
55°	455.7	455.7	529.2	685.2	925.4	1282.0	1922.6	3949.3	4730.3	4845.8	4954.8
57.5°	312.9	321.1	390.5	525.0	766.1	1159.0	1733.6	3892.4	4925.9	5069.5	5199.2
60°	232.0	240.2	291.4	377.3	599.3	1013.7	1591.6	3624.1	5044.0	5234.7	5403.1
62.5°	200.6	206.4	255.1	302.1	431.7	859.4	1466.1	3283.1	5214.0	5474.9	5709.3
65°	179.1	184.9	233.6	260.9	337.6	691.0	1396.0	3088.3	5417.1	5815.8	6155.9
67.5°	165.9	172.5	213.8	233.6	294.7	624.9	1341.5	3042.9	5415.4	5899.2	6333.4
69°	159.3	164.3	198.1	219.6	284.8	605.1	1223.4	2845.6	5058.0	5577.2	6013.1
70°	155.2	160.2	189.0	210.5	281.5	569.6	1114.5	2584.7	4651.0	5173.6	5616.0
72.5°	142.0	146.9	168.4	188.2	234.4	380.6	776.8	1654.4	3323.6	3696.7	4202.7
75°	125.5	131.3	147.8	164.3	177.5	220.4	448.3	858.5	1900.4	2183.5	2634.3
77.5°	102.4	108.1	125.5	151.9	150.2	167.6	291.4	527.5	889.9	1103.7	1270.5
80°	84.2	88.3	103.2	153.5	123.0	140.3	236.1	432.6	626.6	692.6	732.2
82.5°	56.1	61.9	80.1	120.5	94.1	99.9	176.7	404.5	530.0	581.2	629.0
85°	26.4	28.9	48.7	64.4	57.0	53.7	100.7	285.6	394.6	418.5	436.7
87.5°	0.0	0.0	2.5	5.0	7.4	7.4	18.2	60.3	110.6	133.7	132.1
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7
2.5°	2460.1	2460.9	2460.1	2460.1	2459.2	2457.6	2457.6	2455.9	2456.8	2455.9	2457.6
5°	2498.0	2498.0	2495.6	2493.9	2496.4	2493.9	2494.7	2490.6	2490.6	2488.1	2484.8
7.5°	2552.5	2552.5	2553.3	2548.4	2551.7	2552.5	2550.0	2548.4	2546.7	2542.6	2543.4
10°	2625.2	2625.2	2627.6	2621.0	2624.3	2626.0	2626.8	2626.8	2625.2	2617.7	2618.6
12.5°	2706.1	2704.4	2705.2	2701.9	2705.2	2706.9	2708.5	2706.9	2706.9	2705.2	2704.4
15°	2779.5	2778.7	2780.4	2777.9	2778.7	2780.4	2785.3	2784.5	2783.7	2778.7	2778.7
17.5°	2829.9	2827.4	2825.8	2824.9	2824.9	2824.1	2824.9	2824.9	2822.5	2821.6	2821.6
20°	2848.9	2842.3	2838.2	2835.7	2832.4	2830.7	2829.1	2829.9	2828.2	2825.8	2826.6
22.5°	2852.2	2843.1	2834.9	2827.4	2820.8	2816.7	2812.6	2810.9	2806.8	2804.3	2804.3
25°	2867.9	2853.8	2840.6	2828.2	2818.3	2809.3	2800.2	2793.6	2788.6	2782.8	2781.2
27.5°	2902.5	2887.7	2872.0	2856.3	2843.1	2824.9	2812.6	2799.4	2787.8	2778.7	2772.1
30°	2956.2	2941.3	2925.7	2907.5	2890.2	2871.2	2850.5	2834.9	2818.3	2800.2	2790.3
32.5°	3027.2	3017.3	3001.6	2984.3	2968.6	2948.8	2924.0	2900.1	2884.4	2862.9	2847.2
35°	3128.7	3117.2	3112.2	3104.8	3089.1	3076.7	3049.5	3027.2	3012.3	2982.6	2971.1
37.5°	3267.4	3266.6	3270.7	3268.3	3270.7	3255.0	3242.7	3241.8	3220.4	3191.5	3163.4
40°	3456.5	3466.4	3488.7	3504.4	3519.2	3520.9	3538.2	3520.0	3522.5	3518.4	3489.5
42.5°	3671.9	3705.8	3732.2	3778.4	3813.9	3846.9	3869.2	3899.8	3922.9	3943.5	3948.5
45°	3912.2	3962.5	4023.6	4064.9	4134.2	4189.5	4265.5	4324.1	4385.2	4445.5	4466.9
47.5°	4173.0	4235.8	4303.5	4380.2	4467.7	4554.4	4671.6	4761.6	4859.9	4941.6	5014.2
50°	4461.1	4526.4	4617.2	4705.5	4826.0	4925.9	5079.5	5197.5	5356.0	5465.0	5559.1
52.5°	4761.6	4843.4	4944.9	5042.3	5165.3	5293.3	5464.1	5638.3	5829.0	5994.1	6131.2
55°	5055.5	5156.2	5253.6	5367.6	5503.8	5652.4	5845.5	6075.0	6312.8	6501.8	6683.4
57.5°	5317.2	5433.6	5548.4	5663.9	5803.4	5976.0	6193.1	6440.7	6713.2	6965.0	7214.3
60°	5559.9	5699.4	5839.8	5984.2	6144.4	6357.4	6618.2	6922.9	7275.4	7619.6	7945.7
62.5°	5943.8	6127.0	6301.2	6487.8	6681.0	6931.1	7239.0	7638.6	8043.1	8473.2	8807.5
65°	6463.9	6721.4	6949.3	7191.1	7441.3	7775.6	8143.8	8621.8	9201.3	9642.1	10178.7
67.5°	6722.2	7061.5	7354.6	7623.7	7933.3	8270.9	8708.5	9273.9	9892.3	10531.2	11129.7
69°	6418.5	6768.5	7092.9	7394.2	7707.1	8034.8	8492.2	9072.5	9726.3	10417.3	11001.8
70°	6024.7	6374.7	6720.6	7064.0	7349.6	7669.1	8128.1	8726.6	9379.6	10097.8	10677.3
72.5°	4615.5	5036.5	5349.4	5671.4	6002.4	6273.2	6803.2	7307.5	7987.8	8716.7	9354.8
75°	2952.9	3340.1	3681.8	3955.9	4279.5	4604.0	4995.3	5555.8	5981.8	6580.3	7097.9
77.5°	1517.3	1632.1	1961.4	2059.7	2284.2	2460.9	2676.4	2816.7	3163.4	3236.9	3542.3
80°	719.0	648.0	610.1	575.4	585.3	581.2	563.8	540.7	569.6	557.2	552.3
82.5°	626.6	558.9	445.8	378.9	327.7	278.2	239.4	219.6	222.1	228.7	231.1
85°	439.2	412.8	322.0	244.4	190.7	147.8	118.9	113.9	117.2	126.3	123.0
87.5°	127.1	132.9	117.2	81.7	57.0	41.3	32.2	36.3	34.7	33.8	35.5
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7
2.5°	2457.6	2456.8	2454.3	2451.8	2451.8	2450.2	2451.8	2452.6	2451.8	2451.8	2450.2
5°	2485.7	2486.5	2489.0	2484.0	2483.2	2484.0	2480.7	2479.9	2477.4	2479.9	2476.6
7.5°	2539.3	2541.8	2541.8	2538.5	2537.7	2540.1	2535.2	2533.5	2531.1	2530.2	2529.4
10°	2619.4	2621.9	2617.7	2615.3	2612.8	2616.1	2612.0	2612.0	2609.5	2607.0	2606.2
12.5°	2708.5	2706.9	2705.2	2706.9	2704.4	2704.4	2701.9	2700.3	2699.5	2698.6	2697.0
15°	2777.9	2783.7	2783.7	2785.3	2783.7	2783.7	2780.4	2781.2	2779.5	2778.7	2779.5
17.5°	2822.5	2824.1	2828.2	2830.7	2830.7	2831.6	2829.9	2831.6	2829.9	2829.9	2833.2
20°	2828.2	2829.9	2834.0	2838.2	2840.6	2842.3	2842.3	2844.8	2846.4	2848.1	2852.2
22.5°	2805.1	2807.6	2812.6	2820.0	2824.1	2825.8	2829.1	2833.2	2837.3	2840.6	2846.4
25°	2781.2	2782.0	2787.0	2794.4	2799.4	2803.5	2809.3	2814.2	2820.0	2826.6	2833.2
27.5°	2768.0	2767.2	2771.3	2778.7	2782.8	2788.6	2793.6	2801.0	2807.6	2815.9	2821.6
30°	2779.5	2772.9	2773.8	2777.1	2780.4	2784.5	2790.3	2796.9	2804.3	2811.7	2818.3
32.5°	2830.7	2815.9	2806.0	2803.5	2804.3	2805.1	2808.4	2812.6	2818.3	2824.1	2826.6
35°	2941.3	2915.8	2902.5	2891.8	2882.7	2875.3	2877.0	2876.1	2876.1	2881.1	2875.3
37.5°	3151.9	3119.7	3105.6	3086.6	3075.9	3048.7	3041.2	3039.6	3028.9	3028.9	3016.5
40°	3482.1	3463.1	3452.3	3435.0	3383.0	3389.6	3352.5	3353.3	3322.7	3326.0	3304.6
42.5°	3951.8	3954.3	3941.1	3929.5	3889.0	3870.9	3836.2	3786.7	3747.9	3747.1	3704.1
45°	4495.0	4524.7	4482.6	4497.5	4462.0	4413.3	4372.8	4309.2	4249.0	4230.0	4186.2
47.5°	5062.9	5111.7	5079.5	5085.2	5067.9	4998.6	4944.1	4865.6	4787.2	4734.4	4708.0
50°	5669.7	5701.9	5701.1	5685.4	5677.1	5609.4	5521.9	5462.5	5404.7	5333.7	5310.6
52.5°	6219.5	6294.6	6345.0	6333.4	6309.5	6269.0	6191.4	6140.3	6055.2	6045.3	6055.2
55°	6808.1	6905.5	6956.7	7018.6	7019.4	7012.0	6979.8	6960.8	6881.6	6890.7	6879.1
57.5°	7365.3	7508.1	7586.6	7718.7	7764.1	7824.3	7802.0	7826.8	7778.9	7810.3	7801.2
60°	8120.7	8318.8	8449.2	8630.0	8714.2	8865.3	8895.0	8913.2	8939.6	9004.0	8967.7
62.5°	9070.9	9361.5	9632.2	9878.2	9959.1	10186.2	10223.3	10365.3	10372.7	10416.5	10336.4
65°	10626.2	10980.3	11278.3	11573.0	11743.1	12008.9	12116.2	12392.0	12307.8	12343.2	12172.4
67.5°	11644.9	12056.8	12456.3	12735.4	13017.7	13289.3	13484.9	13663.3	13661.6	13626.9	13475.0
69°	11554.9	12013.9	12407.6	12781.6	13078.8	13357.8	13593.1	13708.7	13749.1	13698.8	13590.6
70°	11243.6	11715.0	12197.1	12505.1	12828.7	13134.9	13377.6	13503.9	13532.0	13496.5	13403.2
72.5°	9805.6	10258.0	10789.6	11069.5	11460.8	11682.0	12016.3	12179.8	12208.7	12163.3	12102.2
75°	7652.6	7734.3	8275.9	8454.2	8738.2	8993.3	9201.3	9148.5	9296.2	9267.3	9244.2
77.5°	3605.1	3387.1	3738.0	3901.4	3815.6	3586.9	3919.6	3679.4	3838.7	4045.9	3993.1
80°	594.4	592.7	608.4	643.1	601.8	639.0	638.1	620.0	621.6	666.2	643.1
82.5°	228.7	233.6	236.1	242.7	242.7	243.5	247.7	252.6	248.5	256.7	255.1
85°	123.8	132.1	124.7	118.9	123.0	125.5	128.8	132.9	128.8	141.2	134.6
87.5°	32.2	33.8	29.7	29.7	28.9	26.4	26.4	28.1	30.5	36.3	39.6
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):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7
2.5°	2446.9	2447.7	2448.5	2446.0	2444.4	2444.4	2443.6	2441.9	2441.1	2441.1	2441.1
5°	2474.9	2476.6	2472.4	2471.6	2470.0	2468.3	2468.3	2466.7	2467.5	2467.5	2463.4
7.5°	2531.1	2528.6	2523.6	2520.3	2523.6	2517.9	2515.4	2517.0	2515.4	2516.2	2514.5
10°	2606.2	2606.2	2600.4	2603.7	2599.6	2593.0	2595.5	2593.0	2591.3	2585.5	2588.8
12.5°	2699.5	2697.0	2693.7	2686.3	2683.8	2683.0	2675.5	2676.4	2673.9	2672.2	2669.7
15°	2781.2	2780.4	2772.9	2768.8	2768.0	2764.7	2761.4	2759.7	2755.6	2754.8	2753.1
17.5°	2835.7	2833.2	2829.9	2825.8	2825.8	2820.8	2819.2	2815.0	2814.2	2811.7	2809.3
20°	2853.8	2854.7	2851.4	2848.1	2846.4	2843.1	2840.6	2837.3	2835.7	2832.4	2829.9
22.5°	2849.7	2849.7	2846.4	2845.6	2842.3	2837.3	2834.0	2829.9	2825.8	2821.6	2816.7
25°	2836.5	2835.7	2833.2	2829.1	2824.9	2817.5	2810.9	2804.3	2798.5	2793.6	2786.1
27.5°	2824.9	2823.3	2818.3	2812.6	2804.3	2796.1	2783.7	2774.6	2767.2	2760.6	2752.3
30°	2820.8	2815.0	2807.6	2798.5	2788.6	2776.2	2763.0	2751.5	2743.2	2736.6	2733.3
32.5°	2825.8	2818.3	2806.8	2795.2	2782.8	2768.0	2754.8	2744.9	2737.4	2735.8	2735.8
35°	2871.2	2858.8	2843.1	2826.6	2810.9	2798.5	2789.4	2788.6	2783.7	2789.4	2798.5
37.5°	3004.1	2993.4	2969.4	2947.9	2937.2	2931.4	2923.2	2924.8	2913.3	2931.4	2946.3
40°	3286.4	3273.2	3245.1	3227.8	3206.3	3185.7	3202.2	3197.3	3205.5	3202.2	3217.9
42.5°	3698.4	3685.1	3640.6	3634.0	3624.9	3616.6	3616.6	3610.0	3606.7	3618.3	3605.1
45°	4199.4	4173.0	4156.5	4176.3	4149.1	4157.3	4186.2	4147.4	4156.5	4102.9	4053.3
47.5°	4719.5	4717.0	4712.9	4736.9	4741.0	4753.4	4769.1	4729.4	4657.6	4617.2	4516.4
50°	5318.0	5343.6	5353.5	5376.6	5386.6	5395.6	5370.9	5312.3	5190.9	5083.6	4964.7
52.5°	6045.3	6000.7	6061.8	6084.1	6074.2	6037.9	5948.7	5876.9	5709.3	5555.0	5370.9
55°	6892.3	6903.0	6860.1	6842.8	6808.9	6708.2	6585.2	6423.4	6211.2	6009.8	5777.0
57.5°	7755.0	7750.9	7684.0	7589.9	7475.1	7353.8	7170.5	6938.5	6690.9	6420.1	6138.6
60°	8804.2	8800.1	8664.7	8503.7	8340.3	8144.6	7857.3	7578.3	7246.5	6890.7	6555.5
62.5°	10182.8	10005.4	9872.5	9632.2	9379.6	9123.7	8734.9	8364.2	7920.9	7471.8	7080.5
65°	11949.5	11657.2	11506.2	11157.8	10766.5	10366.9	9971.5	9484.5	8887.6	8344.4	7866.4
67.5°	13256.3	12988.8	12712.3	12364.7	11935.4	11489.7	10948.1	10334.7	9657.0	9047.8	8526.8
69°	13371.0	13120.9	12789.0	12440.7	12034.5	11549.9	10958.8	10272.0	9585.2	8968.5	8455.9
70°	13196.8	12931.0	12581.8	12219.4	11765.4	11308.0	10688.9	9973.2	9285.5	8667.2	8166.9
72.5°	11897.5	11638.3	11266.8	10833.4	10367.8	9976.5	9388.7	8642.4	7894.5	7323.2	6933.6
75°	9046.9	8990.0	8726.6	8474.0	8107.5	7670.8	7133.4	6631.4	6018.1	5413.8	5050.6
77.5°	3860.2	3991.4	4128.5	4148.3	4161.5	4026.9	3943.5	3817.2	3406.9	3220.4	3028.0
80°	713.3	637.3	680.2	685.2	713.3	728.1	782.6	927.9	944.4	979.9	1023.7
82.5°	253.4	257.6	264.2	266.6	269.1	279.0	316.2	378.9	435.9	510.2	609.2
85°	143.6	146.1	151.9	156.8	160.2	170.1	190.7	227.8	284.0	369.0	500.3
87.5°	43.8	49.5	52.8	59.4	61.9	63.6	72.6	97.4	125.5	185.7	270.8
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):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7
2.5°	2441.1	2440.3	2438.6	2436.9	2437.8	2436.1	2431.2	2429.5	2423.7	2419.6	2416.3
5°	2463.4	2462.5	2459.2	2460.1	2459.2	2451.0	2445.2	2435.3	2429.5	2420.4	2417.1
7.5°	2509.6	2508.8	2503.0	2505.5	2503.8	2491.4	2481.5	2465.8	2457.6	2446.0	2436.9
10°	2578.9	2578.9	2572.3	2573.2	2573.2	2556.7	2539.3	2512.9	2493.9	2475.7	2460.1
12.5°	2663.1	2659.8	2659.0	2654.9	2651.6	2633.4	2607.0	2571.5	2536.0	2506.3	2484.8
15°	2748.2	2743.2	2740.7	2735.8	2731.7	2715.2	2679.7	2635.9	2588.0	2540.1	2504.6
17.5°	2803.5	2800.2	2795.2	2793.6	2787.8	2771.3	2746.5	2702.8	2643.3	2576.5	2522.8
20°	2824.1	2818.3	2815.0	2811.7	2808.4	2796.9	2796.9	2768.8	2702.8	2608.7	2526.9
22.5°	2810.9	2807.6	2802.7	2800.2	2796.9	2798.5	2830.7	2826.6	2750.6	2616.1	2497.2
25°	2780.4	2776.2	2772.1	2772.1	2771.3	2788.6	2866.2	2877.0	2764.7	2579.8	2432.0
27.5°	2749.0	2743.2	2744.9	2745.7	2749.8	2787.0	2905.0	2890.2	2726.7	2492.3	2319.7
30°	2730.0	2730.0	2734.1	2740.7	2749.0	2814.2	2935.6	2860.4	2628.5	2360.2	2171.1
32.5°	2738.3	2746.5	2755.6	2772.1	2784.5	2874.5	2946.3	2783.7	2485.7	2196.7	2015.9
35°	2811.7	2821.6	2839.0	2864.6	2879.4	2961.2	2946.3	2671.4	2319.7	2056.4	1855.8
37.5°	2971.9	2981.8	3002.4	3022.2	3037.1	3070.1	2933.9	2528.6	2181.0	1911.1	1712.1
40°	3229.5	3243.5	3258.3	3255.0	3245.1	3212.9	2909.1	2395.7	2053.1	1784.0	1571.0
42.5°	3591.9	3578.7	3577.0	3544.8	3511.8	3373.9	2891.0	2309.0	1943.3	1650.2	1430.6
45°	4010.4	3956.7	3901.4	3858.5	3808.1	3550.6	2886.0	2238.8	1821.9	1501.6	1277.9
47.5°	4431.4	4345.6	4238.2	4171.4	4089.7	3738.8	2900.9	2144.7	1665.9	1339.8	1135.1
50°	4844.2	4703.8	4570.9	4490.9	4398.4	3955.1	2924.8	1986.2	1479.3	1192.9	1004.7
52.5°	5226.4	5045.6	4909.4	4815.3	4702.2	4206.9	2903.4	1778.2	1317.5	1051.7	880.8
55°	5589.6	5389.9	5248.7	5149.6	5016.7	4459.5	2748.2	1589.1	1163.2	913.9	741.3
57.5°	5907.5	5715.9	5569.0	5434.4	5322.2	4679.1	2441.9	1433.1	1014.6	756.2	590.3
60°	6278.9	6063.5	5889.3	5745.7	5613.6	4792.2	2098.5	1294.4	856.1	585.3	426.8
62.5°	6780.0	6532.4	6331.0	6166.7	5994.1	4816.9	1864.0	1155.7	679.4	423.5	310.4
65°	7523.0	7217.6	6965.8	6739.6	6506.0	4714.6	1748.5	1004.7	505.2	314.5	260.0
67.5°	8113.3	7796.3	7504.8	7214.3	6915.4	4524.7	1722.9	865.2	388.0	267.5	233.6
69°	8041.4	7739.3	7471.8	7157.3	6826.3	4286.1	1697.3	811.5	354.2	248.5	221.2
70°	7764.9	7478.4	7206.8	6950.9	6545.6	4020.3	1629.6	781.8	340.9	239.4	212.2
72.5°	6561.3	6229.4	5966.1	5647.4	5220.6	2987.6	1235.8	632.4	312.9	218.8	191.5
75°	4785.6	4510.7	4248.2	3895.7	3480.4	1728.6	769.4	361.6	229.5	198.1	173.4
77.5°	2794.4	2732.5	2479.1	2247.1	1836.0	880.0	441.7	216.3	178.3	180.0	152.7
80°	1051.7	1120.2	1145.8	1065.8	984.9	607.6	321.1	175.8	155.2	177.5	129.6
82.5°	766.9	889.9	904.8	866.8	806.5	566.3	256.7	141.2	126.3	190.7	111.4
85°	639.8	708.3	719.0	679.4	659.6	479.6	179.1	99.1	92.5	137.0	83.4
87.5°	323.6	340.9	350.0	317.0	318.7	223.7	71.8	42.1	50.4	58.6	46.2
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: P157905

CATALOG NUMBER: VTS-F05-LED-E1-RW

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	2442.7	2442.7
2.5°	2408.9	2413.8
5°	2412.2	2412.2
7.5°	2431.2	2431.2
10°	2451.8	2452.6
12.5°	2470.8	2470.0
15°	2485.7	2483.2
17.5°	2494.7	2492.3
20°	2485.7	2481.5
22.5°	2439.4	2427.9
25°	2355.2	2340.4
27.5°	2243.8	2233.9
30°	2098.5	2083.6
32.5°	1928.4	1921.0
35°	1765.8	1756.7
37.5°	1617.2	1614.7
40°	1491.7	1478.5
42.5°	1344.8	1339.0
45°	1195.4	1192.1
47.5°	1055.0	1051.7
50°	925.4	918.8
52.5°	798.3	787.6
55°	657.1	649.7
57.5°	504.4	497.8
60°	355.0	347.5
62.5°	252.6	244.4
65°	210.5	203.9
67.5°	190.7	183.3
69°	181.6	175.0
70°	175.8	170.9
72.5°	163.5	160.2
75°	149.4	146.9
77.5°	131.3	127.1
80°	109.8	105.7
82.5°	92.5	88.3
85°	61.9	56.1
87.5°	28.1	24.8
90°	0.0	0.0

(END OF REPORT)