

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: STREETWORKS

Report Number: P159781

Luminaire Tested: **VST-E06-LED-E-U-T4-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159781
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33707)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E06-LED-E-U-T4-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (126) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18324.3 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 150.5
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: 28.75 FT

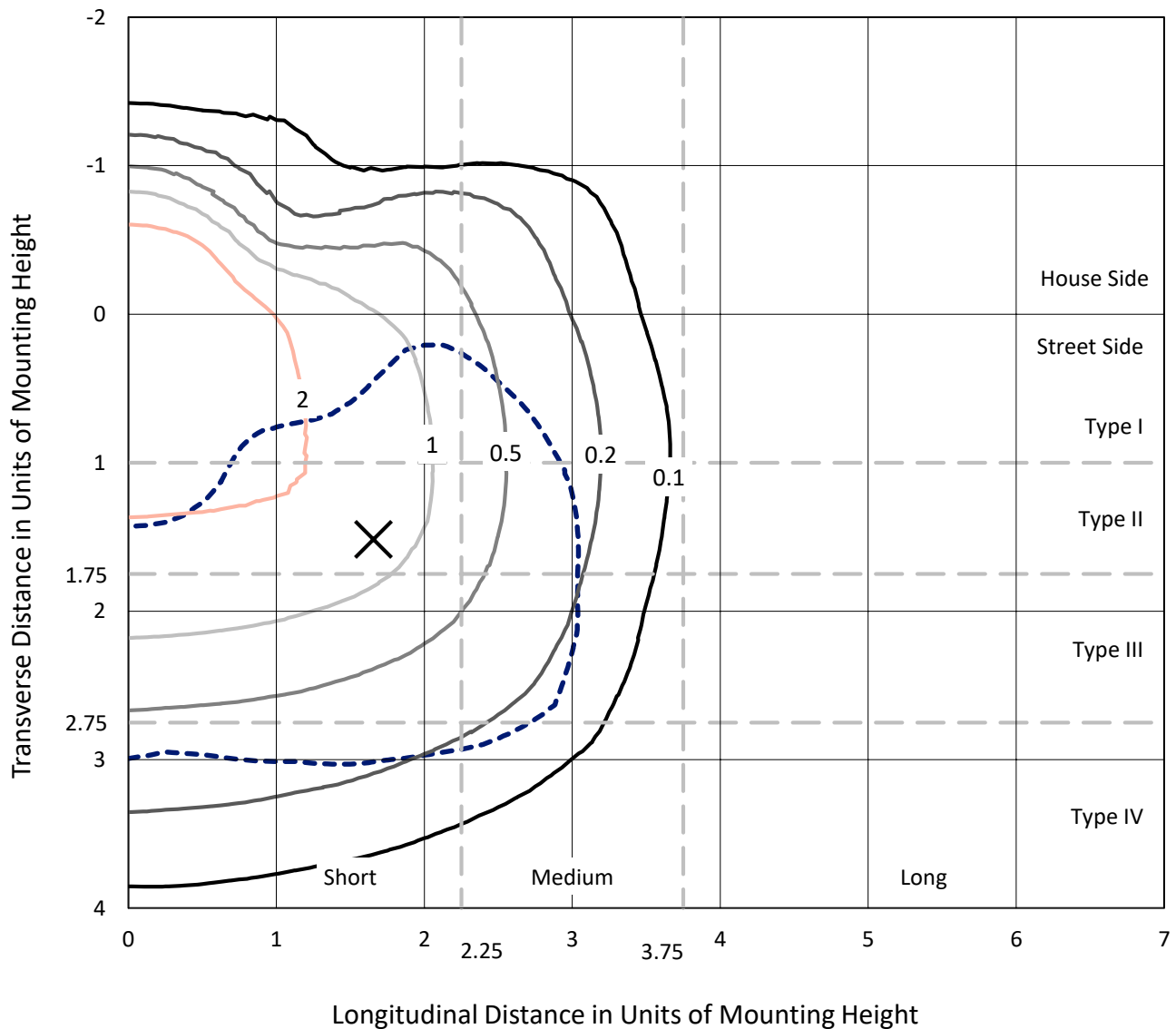


REPORT NUMBER: P159781

CATALOG NUMBER: VST-E06-LED-E-U-T4-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

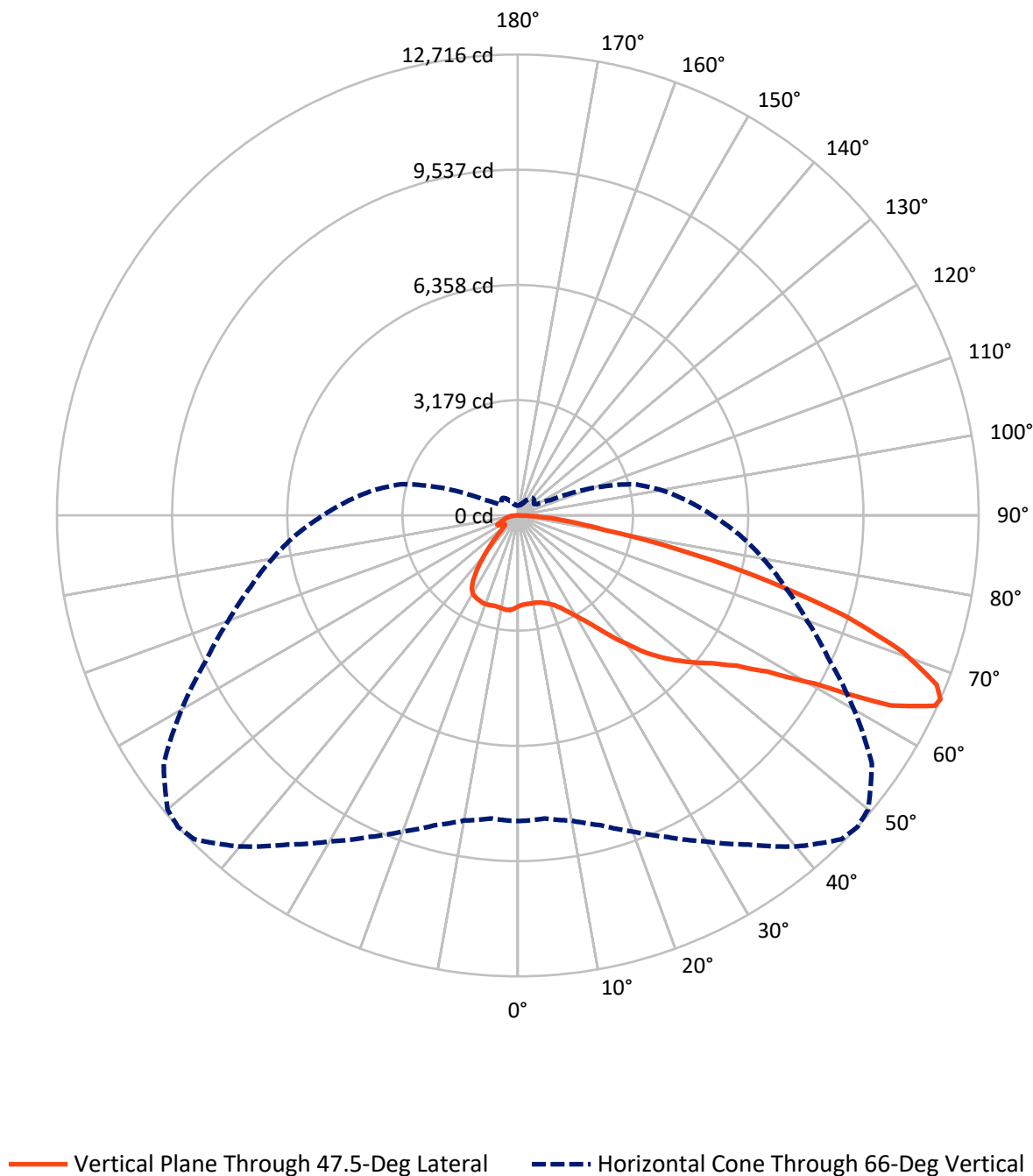


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type IV - Short - Semi-Cutoff

REPORT NUMBER: P159781

CATALOG NUMBER: VST-E06-LED-E-U-T4-7050

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3793.9	0.0	3793.9
	% Fixture	20.7	0.0	20.7
Street Side	Lumens	14530.4	0.0	14530.4
	% Fixture	79.3	0.0	79.3
Total	Lumens	18324.3	0.0	18324.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.6	1.3
10°-20°	724.6	4.0
20°-30°	1236.3	6.7
30°-40°	1866.1	10.2
40°-50°	2425.4	13.2
50°-60°	3327.5	18.2
60°-70°	5118.7	27.9
70°-80°	2959.0	16.1
80°-90°	425.1	2.3
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°	18324.3	100.0
0°-180°	18324.3	100.0

Coefficient of Utilization



REPORT NUMBER: P159781

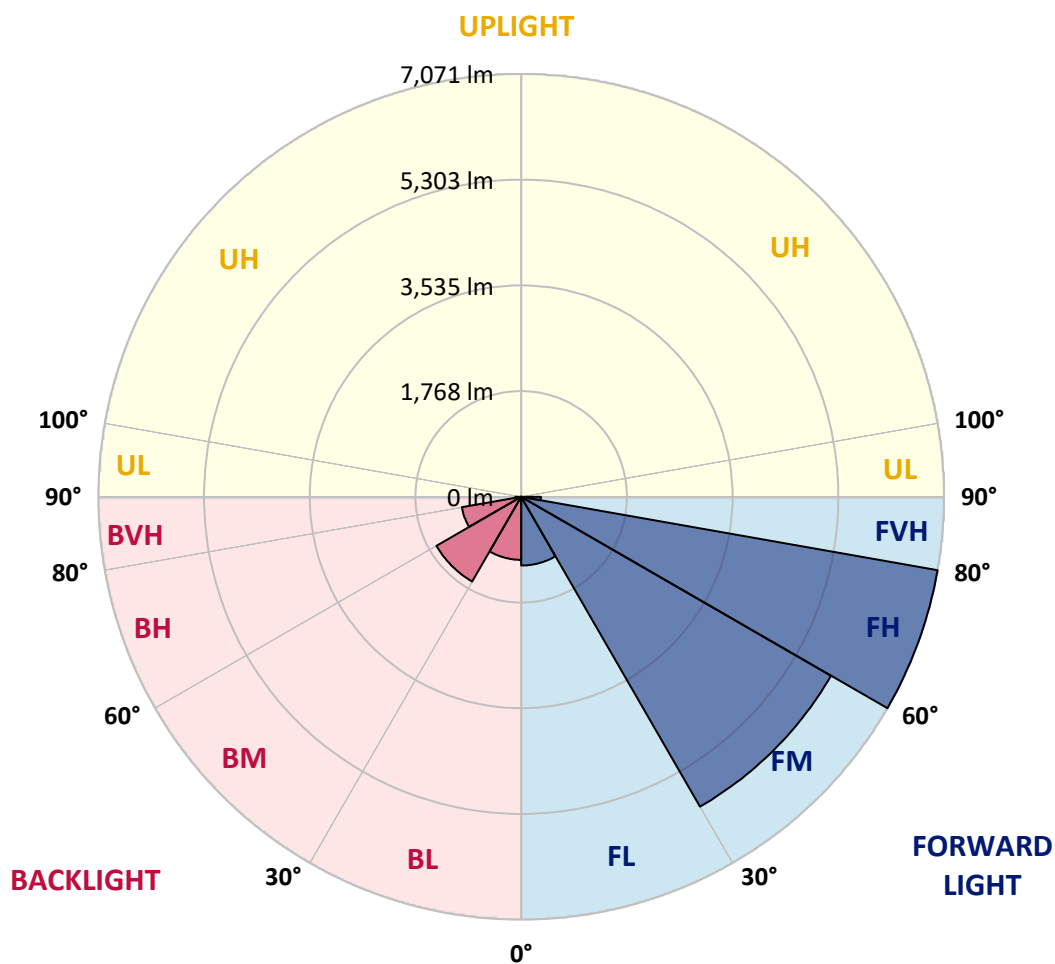
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1148.6	6.3			
FM	(30°-60°)	5982.1	32.6			
FH	(60°-80°)	7070.8	38.6			G3/7500
FVH	(80°-90°)	329.0	1.8			G3/500
BL	(0°-30°)	1054.0	5.8	B3/2500		
BM	(30°-60°)	1636.9	8.9	B2/2500		
BH	(60°-80°)	1006.9	5.5	B3/2500		G3/2500
BVH	(80°-90°)	96.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





REPORT NUMBER: P159781

CATALOG NUMBER: VST-E06-LED-E-U-T4-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0
2.5°	2443.0	2444.2	2445.4	2445.4	2449.1	2449.1	2455.3	2459.0	2460.2	2467.6	2472.5
5°	2397.4	2396.2	2397.4	2399.9	2406.0	2410.9	2423.3	2431.9	2439.3	2451.6	2457.7
7.5°	2377.7	2380.2	2382.6	2383.8	2388.8	2401.1	2412.2	2420.8	2435.6	2450.3	2456.5
10°	2403.5	2407.2	2403.5	2406.0	2406.0	2417.1	2422.0	2428.2	2439.3	2452.8	2456.5
12.5°	2463.9	2471.3	2463.9	2457.7	2452.8	2462.7	2460.2	2455.3	2461.4	2465.1	2465.1
15°	2563.6	2563.6	2558.7	2550.1	2537.8	2539.0	2527.9	2516.8	2511.9	2503.3	2497.1
17.5°	2660.9	2658.4	2647.4	2636.3	2627.7	2624.0	2607.9	2593.2	2575.9	2562.4	2547.6
20°	2755.7	2765.6	2752.0	2736.0	2722.5	2713.8	2701.5	2672.0	2651.0	2628.9	2614.1
22.5°	2919.5	2910.9	2896.1	2872.7	2859.1	2844.4	2818.5	2786.5	2754.5	2727.4	2708.9
25°	3088.2	3079.5	3058.6	3041.4	3021.7	3009.4	2981.0	2941.6	2910.9	2869.0	2844.4
27.5°	3269.2	3261.8	3237.2	3223.6	3210.1	3195.3	3170.7	3130.0	3101.7	3053.7	3027.8
30°	3473.6	3472.3	3439.1	3436.6	3416.9	3400.9	3383.7	3349.2	3320.9	3272.9	3242.1
32.5°	3691.5	3686.6	3663.2	3655.8	3669.4	3658.3	3633.6	3597.9	3561.0	3532.7	3498.2
35°	4001.8	3993.2	3979.6	3985.8	3994.4	4025.2	3987.0	3956.3	3911.9	3875.0	3827.0
37.5°	4228.4	4216.1	4232.1	4266.5	4315.8	4339.2	4372.4	4373.7	4352.7	4303.5	4261.6
40°	4436.5	4431.5	4468.5	4516.5	4607.6	4674.1	4736.9	4767.7	4775.1	4743.1	4680.3
42.5°	4612.5	4627.3	4676.6	4750.5	4878.5	4979.5	5096.5	5169.1	5214.7	5197.4	5169.1
45°	4821.9	4829.3	4889.6	4983.2	5105.1	5272.5	5426.5	5549.6	5629.6	5628.4	5596.4
47.5°	5084.1	5085.4	5137.1	5246.7	5377.2	5547.1	5741.7	5905.4	6011.3	6016.3	5991.6
50°	5395.7	5393.2	5449.9	5553.3	5692.4	5856.2	6063.1	6267.5	6415.2	6415.2	6379.5
52.5°	5797.1	5792.2	5822.9	5914.1	6048.3	6220.7	6426.3	6662.7	6822.8	6857.3	6779.7
55°	6332.7	6340.1	6347.5	6427.5	6542.0	6678.7	6915.1	7133.1	7347.3	7367.0	7321.5
57.5°	6952.1	6927.4	6980.4	7110.9	7241.4	7412.6	7580.0	7837.4	8091.0	8134.1	8128.0
60°	7919.9	7887.9	7942.1	8108.3	8252.4	8522.0	8808.9	9141.4	9441.8	9530.5	9423.3
62.5°	8810.1	8849.5	8923.4	9116.7	9326.1	9685.6	10116.6	10686.7	11256.8	11567.1	11544.9
65°	8730.1	8693.2	8834.8	9098.3	9477.5	9935.6	10471.2	11158.3	11979.6	12602.6	12658.0
66°	8433.4	8395.2	8547.9	8849.5	9283.0	9792.7	10387.5	11086.9	11926.6	12630.9	12715.9
67.5°	7943.3	7905.1	8077.5	8352.1	8799.1	9440.6	10083.3	10848.0	11721.0	12395.8	12464.7
70°	6997.6	6945.9	7080.1	7390.4	7752.4	8373.0	8985.0	9795.2	10691.6	11230.9	11256.8
72.5°	5927.6	5806.9	5949.8	6188.6	6447.2	6960.7	7493.9	8048.0	8762.1	9260.8	9403.6
75°	4301.0	4363.8	4405.7	4563.3	4734.5	5159.3	5472.0	5936.2	6489.1	6849.9	6964.4
77.5°	2281.6	2376.5	2435.6	2593.2	2876.4	3200.2	3538.8	3825.7	4189.0	4390.9	4531.3
80°	1280.6	1347.1	1443.1	1567.5	1705.4	1954.1	2154.8	2302.6	2354.3	2390.0	2422.0
82.5°	704.3	873.0	1015.8	1102.0	1183.3	1283.0	1402.5	1525.6	1565.0	1505.9	1475.1
85°	109.6	161.3	491.3	599.7	652.6	728.9	815.1	906.3	907.5	780.7	852.1
87.5°	30.8	34.5	70.2	105.9	103.4	83.7	103.4	188.4	110.8	55.4	64.0
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: P159781

CATALOG NUMBER: VST-E06-LED-E-U-T4-7050

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0
2.5°	2475.0	2477.4	2483.6	2489.7	2495.9	2502.1	2505.7	2511.9	2516.8	2524.2	2532.8
5°	2465.1	2471.3	2482.4	2495.9	2508.2	2519.3	2527.9	2540.2	2551.3	2561.2	2575.9
7.5°	2465.1	2477.4	2495.9	2510.7	2521.8	2535.3	2548.8	2561.2	2573.5	2583.3	2593.2
10°	2466.3	2478.7	2497.1	2514.4	2526.7	2541.5	2552.5	2563.6	2577.2	2583.3	2595.6
12.5°	2471.3	2476.2	2489.7	2507.0	2521.8	2536.5	2547.6	2558.7	2573.5	2575.9	2584.6
15°	2495.9	2488.5	2492.2	2504.5	2520.5	2532.8	2545.2	2553.8	2563.6	2561.2	2568.5
17.5°	2541.5	2523.0	2515.6	2516.8	2524.2	2532.8	2537.8	2539.0	2540.2	2529.1	2530.4
20°	2603.0	2577.2	2559.9	2551.3	2541.5	2532.8	2519.3	2503.3	2488.5	2466.3	2463.9
22.5°	2695.4	2657.2	2638.7	2615.3	2585.8	2548.8	2515.6	2476.2	2444.2	2410.9	2398.6
25°	2829.6	2790.2	2770.5	2733.5	2680.6	2627.7	2579.6	2526.7	2479.9	2440.5	2422.0
27.5°	3009.4	2970.0	2949.0	2910.9	2845.6	2792.6	2726.2	2669.5	2612.9	2555.0	2531.6
30°	3227.3	3192.8	3169.4	3138.7	3082.0	3024.1	2946.6	2859.1	2769.3	2676.9	2631.3
32.5°	3484.7	3446.5	3429.2	3393.5	3334.4	3274.1	3187.9	3075.9	2925.6	2780.3	2689.2
35°	3806.0	3762.9	3743.2	3696.4	3627.5	3538.8	3446.5	3296.3	3093.1	2891.2	2742.2
37.5°	4235.8	4139.7	4074.5	3967.3	3856.5	3732.2	3600.4	3446.5	3206.4	2956.4	2749.6
40°	4616.2	4519.0	4393.4	4239.5	4067.1	3895.9	3745.7	3570.8	3309.8	3003.2	2726.2
42.5°	5089.1	4916.7	4716.0	4507.9	4278.9	4068.3	3889.8	3684.1	3380.0	3015.5	2660.9
45°	5521.3	5315.6	5047.2	4770.2	4485.7	4221.0	4020.3	3791.3	3440.3	3015.5	2582.1
47.5°	5915.3	5669.0	5347.7	5002.9	4671.7	4382.3	4154.5	3900.8	3525.3	3053.7	2558.7
50°	6279.8	5996.6	5630.9	5230.7	4858.8	4549.8	4304.7	4041.2	3654.6	3152.2	2615.3
52.5°	6663.9	6363.5	5917.8	5492.9	5082.9	4751.7	4490.6	4214.8	3822.0	3307.3	2715.1
55°	7167.6	6815.4	6309.3	5841.4	5390.7	5025.0	4728.3	4422.9	4005.5	3482.2	2837.0
57.5°	7961.8	7450.8	6944.7	6336.4	5911.6	5430.2	5105.1	4754.2	4303.5	3710.0	3020.4
60°	9351.9	8723.9	8115.7	7416.3	6891.7	6388.1	5896.8	5438.8	4895.8	4224.7	3423.1
62.5°	11336.8	10699.0	9743.5	8887.7	8096.0	7428.6	6788.3	6205.9	5509.0	4775.1	3919.3
65°	12522.6	11792.4	10653.4	9503.4	8541.7	7714.3	6981.6	6268.7	5516.3	4800.9	4069.5
66°	12617.4	11926.6	10710.1	9494.8	8496.2	7637.9	6875.7	6138.2	5367.4	4682.7	4020.3
67.5°	12441.3	11846.6	10594.3	9327.3	8306.5	7379.3	6596.2	5822.9	5048.4	4414.3	3856.5
70°	11198.9	10769.2	9695.5	8508.5	7490.2	6672.6	5846.3	5102.6	4368.7	3835.6	3421.9
72.5°	9180.8	8636.5	7885.4	7087.5	6285.9	5560.7	4809.6	4176.7	3561.0	3173.1	2880.1
75°	6744.0	6253.9	5426.5	4929.0	4399.5	3943.9	3437.9	2838.2	2401.1	2206.5	2135.1
77.5°	4275.2	3743.2	3045.1	2495.9	2146.2	1844.5	1454.2	1156.2	926.0	964.1	1067.6
80°	2159.7	1860.5	1392.6	1099.6	950.6	790.5	625.5	474.1	346.0	395.3	447.0
82.5°	1386.5	1157.4	922.3	726.5	613.2	540.6	432.2	314.0	234.0	263.5	322.6
85°	834.8	705.6	562.7	460.5	400.2	333.7	245.0	173.6	172.4	184.7	227.8
87.5°	126.8	181.0	104.7	112.1	118.2	126.8	112.1	94.8	82.5	107.1	135.4
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0	2507.0
2.5°	2541.5	2543.9	2548.8	2555.0	2553.8	2562.4	2567.3	2562.4	2573.5	2573.5	2579.6
5°	2588.2	2591.9	2600.6	2606.7	2609.2	2616.6	2619.0	2617.8	2620.3	2621.5	2624.0
7.5°	2601.8	2611.6	2615.3	2619.0	2620.3	2622.7	2622.7	2620.3	2620.3	2619.0	2621.5
10°	2598.1	2601.8	2604.3	2603.0	2603.0	2600.6	2599.3	2598.1	2598.1	2595.6	2599.3
12.5°	2585.8	2585.8	2585.8	2583.3	2583.3	2582.1	2582.1	2582.1	2584.6	2585.8	2591.9
15°	2561.2	2561.2	2563.6	2562.4	2566.1	2572.2	2579.6	2584.6	2590.7	2591.9	2595.6
17.5°	2523.0	2524.2	2531.6	2547.6	2563.6	2582.1	2595.6	2599.3	2594.4	2582.1	2573.5
20°	2456.5	2472.5	2502.1	2540.2	2575.9	2599.3	2605.5	2590.7	2567.3	2535.3	2518.1
22.5°	2397.4	2429.4	2482.4	2545.2	2589.5	2605.5	2587.0	2552.5	2510.7	2473.7	2447.9
25°	2420.8	2457.7	2513.1	2567.3	2595.6	2587.0	2550.1	2500.8	2456.5	2413.4	2371.5
27.5°	2519.3	2556.2	2595.6	2611.6	2601.8	2569.8	2518.1	2465.1	2406.0	2344.4	2292.7
30°	2612.9	2633.8	2636.3	2620.3	2584.6	2532.8	2472.5	2410.9	2335.8	2261.9	2196.7
32.5°	2642.4	2617.8	2573.5	2527.9	2478.7	2425.7	2355.5	2274.3	2194.2	2110.5	2037.8
35°	2633.8	2534.1	2424.5	2327.2	2268.1	2207.8	2143.7	2035.4	1945.5	1874.1	1827.3
37.5°	2556.2	2374.0	2205.3	2063.7	1971.4	1899.9	1805.1	1715.2	1637.7	1605.6	1567.5
40°	2447.9	2169.6	1935.6	1737.4	1641.4	1550.2	1444.3	1375.4	1353.2	1323.7	1324.9
42.5°	2292.7	1930.7	1629.0	1401.2	1296.6	1196.8	1121.7	1081.1	1082.3	1057.7	1062.6
45°	2129.0	1690.6	1311.4	1084.8	981.4	896.4	854.5	842.2	843.5	844.7	837.3
47.5°	2029.2	1503.4	1051.6	822.5	731.4	683.4	661.2	655.1	656.3	657.5	648.9
50°	2014.5	1406.2	877.9	629.2	570.1	543.0	531.9	525.8	525.8	520.9	513.5
52.5°	2056.3	1381.5	793.0	545.5	488.8	464.2	455.6	450.7	443.3	433.4	419.9
55°	2122.8	1403.7	767.1	517.2	461.7	437.1	426.0	423.6	411.3	392.8	370.6
57.5°	2245.9	1483.7	784.4	524.5	466.7	444.5	437.1	434.7	417.4	389.1	360.8
60°	2599.3	1716.5	870.5	566.4	502.4	483.9	483.9	480.2	456.8	416.2	375.6
62.5°	3086.9	2057.5	987.5	624.3	551.6	549.2	570.1	571.3	529.5	464.2	400.2
65°	3322.1	2217.6	1028.2	636.6	565.2	593.5	635.4	635.4	576.3	486.4	403.9
66°	3323.4	2213.9	1015.8	621.8	550.4	587.3	630.4	630.4	568.9	480.2	397.7
67.5°	3238.4	2145.0	975.2	594.7	517.2	551.6	589.8	588.6	533.2	455.6	380.5
70°	2904.7	1897.5	859.5	550.4	477.8	479.0	492.5	483.9	447.0	394.0	346.0
72.5°	2504.5	1587.2	745.0	522.1	447.0	423.6	412.5	405.1	381.7	349.7	320.1
75°	1920.9	1232.6	648.9	496.2	419.9	379.2	364.5	358.3	342.3	323.8	300.4
77.5°	1177.1	844.7	550.4	454.4	389.1	352.2	336.2	323.8	307.8	290.6	274.6
80°	507.3	509.8	440.8	385.4	338.6	295.5	274.6	259.8	251.2	245.0	236.4
82.5°	354.6	365.7	336.2	299.2	258.6	227.8	209.3	205.6	206.9	206.9	204.4
85°	266.0	261.0	235.2	214.3	195.8	176.1	161.3	160.1	165.0	165.0	161.3
87.5°	153.9	155.1	133.0	124.4	129.3	110.8	101.0	102.2	114.5	113.3	110.8
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: P159781

CATALOG NUMBER: VST-E06-LED-E-U-T4-7050

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	2507.0	2507.0	2507.0	2507.0	2507.0
2.5°	2579.6	2583.3	2582.1	2585.8	2582.1
5°	2627.7	2626.4	2625.2	2630.1	2624.0
7.5°	2620.3	2621.5	2621.5	2621.5	2620.3
10°	2601.8	2606.7	2609.2	2614.1	2612.9
12.5°	2595.6	2603.0	2610.4	2617.8	2619.0
15°	2596.9	2601.8	2605.5	2609.2	2610.4
17.5°	2564.9	2563.6	2559.9	2557.5	2555.0
20°	2499.6	2493.4	2487.3	2477.4	2482.4
22.5°	2418.3	2401.1	2381.4	2365.4	2364.1
25°	2323.5	2291.5	2259.5	2238.6	2231.2
27.5°	2239.8	2201.6	2168.4	2149.9	2145.0
30°	2140.0	2105.6	2076.0	2060.0	2050.2
32.5°	1992.3	1965.2	1928.3	1915.9	1914.7
35°	1786.7	1765.7	1739.9	1734.9	1728.8
37.5°	1553.9	1546.5	1534.2	1519.5	1517.0
40°	1305.2	1310.1	1306.4	1297.8	1284.3
42.5°	1065.1	1073.7	1074.9	1081.1	1087.3
45°	848.4	855.8	855.8	861.9	869.3
47.5°	651.4	646.4	650.1	656.3	660.0
50°	492.5	488.8	482.7	477.8	472.8
52.5°	396.5	389.1	371.9	366.9	362.0
55°	349.7	336.2	323.8	318.9	318.9
57.5°	336.2	318.9	305.4	299.2	296.7
60°	338.6	314.0	296.7	286.9	283.2
62.5°	349.7	315.2	291.8	280.7	277.0
65°	348.5	312.8	290.6	278.3	274.6
66°	342.3	309.1	288.1	277.0	274.6
67.5°	332.5	304.1	285.7	275.8	272.1
70°	312.8	294.3	280.7	272.1	268.4
72.5°	296.7	284.4	272.1	262.3	259.8
75°	282.0	269.7	258.6	253.7	250.0
77.5°	259.8	248.7	242.6	237.6	235.2
80°	230.3	222.9	215.5	210.6	206.9
82.5°	200.7	190.9	183.5	179.8	177.3
85°	163.8	157.6	146.5	139.1	137.9
87.5°	109.6	103.4	99.7	93.6	87.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)