

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: P159670

Luminaire Tested: **VTS-E06-LED-E1-T4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159670
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: MCGRAW-EDISON
Catalog Number: VTS-E06-LED-E1-T4
Description: VENTUS LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (126) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

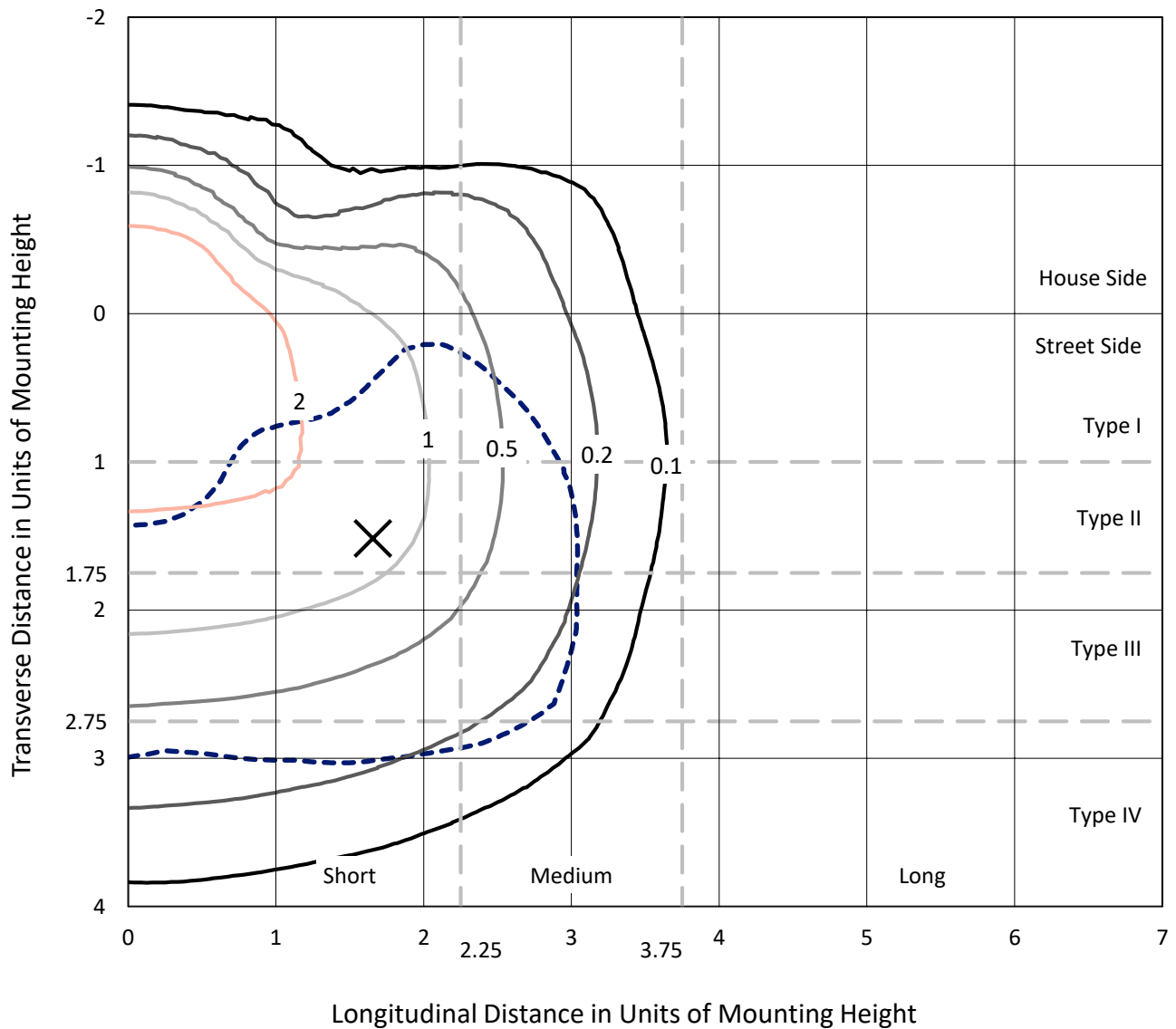
Lumens per Lamp: N/A
Luminaire Lumens: 17858.1 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

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: 25 FT

REPORT NUMBER: P159670
 CATALOG NUMBER: VTS-E06-LED-E1-T4

Iso-Footcandle Lines of Horizontal Illumination

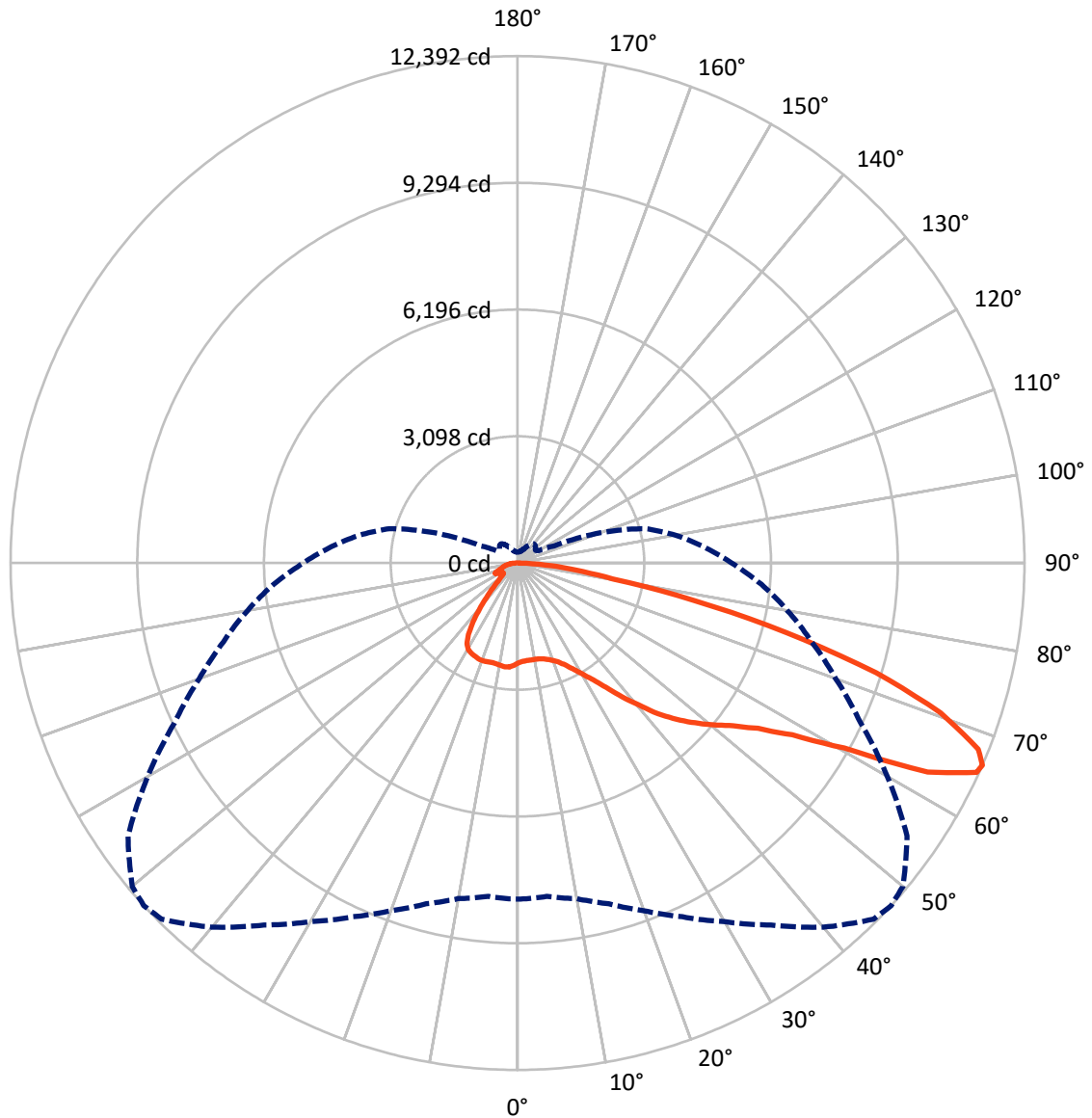
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P159670
CATALOG NUMBER: VTS-E06-LED-E1-T4

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P159670

CATALOG NUMBER: VTS-E06-LED-E1-T4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3697.4	0.0	3697.4
	% Fixture	20.7	0.0	20.7
Street Side	Lumens	14160.7	0.0	14160.7
	% Fixture	79.3	0.0	79.3
Total	Lumens	17858.1	0.0	17858.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.5	1.3
10°-20°	706.2	4.0
20°-30°	1204.9	6.7
30°-40°	1818.6	10.2
40°-50°	2363.7	13.2
50°-60°	3242.8	18.2
60°-70°	4988.5	27.9
70°-80°	2883.7	16.1
80°-90°	414.3	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°	17858.1	100.0
0°-180°	17858.1	100.0



REPORT NUMBER: P159670

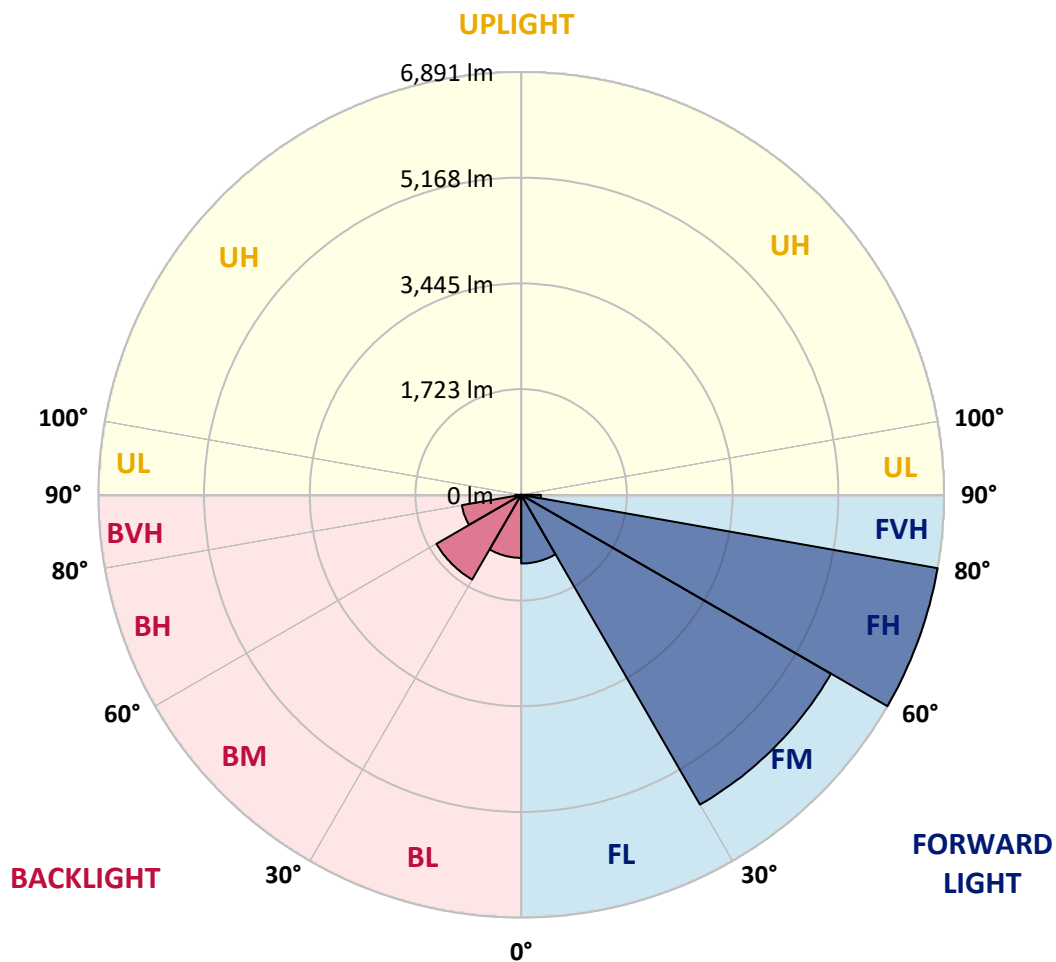
CATALOG NUMBER: VTS-E06-LED-E1-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1119.4	6.3			
FM	(30°-60°)	5829.9	32.6			
FH	(60°-80°)	6890.9	38.6			G3/7500
FVH	(80°-90°)	320.6	1.8			G3/500
BL	(0°-30°)	1027.2	5.8	B3/2500		
BM	(30°-60°)	1595.2	8.9	B2/2500		
BH	(60°-80°)	981.3	5.5	B2/1000		G2/1000
BVH	(80°-90°)	93.7	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: P159670

CATALOG NUMBER: VTS-E06-LED-E1-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	2443.2	2443.2	2443.2	2443.2	2443.2	2443.2	2443.2	2443.2	2443.2	2443.2	2443.2
2.5°	2380.8	2382.0	2383.2	2383.2	2386.8	2386.8	2392.8	2396.4	2397.6	2404.8	2409.6
5°	2336.4	2335.2	2336.4	2338.8	2344.8	2349.6	2361.6	2370.0	2377.2	2389.2	2395.2
7.5°	2317.2	2319.6	2322.0	2323.2	2328.0	2340.0	2350.8	2359.2	2373.6	2388.0	2394.0
10°	2342.4	2346.0	2342.4	2344.8	2344.8	2355.6	2360.4	2366.4	2377.2	2390.4	2394.0
12.5°	2401.2	2408.4	2401.2	2395.2	2390.4	2400.0	2397.6	2392.8	2398.8	2402.4	2402.4
15°	2498.4	2498.4	2493.6	2485.2	2473.2	2474.4	2463.6	2452.8	2448.0	2439.6	2433.6
17.5°	2593.2	2590.8	2580.0	2569.2	2560.8	2557.2	2541.6	2527.2	2510.4	2497.2	2482.8
20°	2685.6	2695.2	2682.0	2666.4	2653.2	2644.8	2632.8	2604.0	2583.6	2562.0	2547.6
22.5°	2845.2	2836.8	2822.4	2799.6	2786.4	2772.0	2746.8	2715.6	2684.4	2658.0	2640.0
25°	3009.6	3001.2	2980.8	2964.0	2944.8	2932.8	2905.2	2866.8	2836.8	2796.0	2772.0
27.5°	3186.0	3178.8	3154.8	3141.6	3128.4	3114.0	3090.0	3050.4	3022.8	2976.0	2950.8
30°	3385.2	3384.0	3351.6	3349.2	3330.0	3314.4	3297.6	3264.0	3236.4	3189.6	3159.6
32.5°	3597.6	3592.8	3570.0	3562.8	3576.0	3565.2	3541.2	3506.4	3470.4	3442.8	3409.2
35°	3900.0	3891.6	3878.4	3884.4	3892.8	3922.8	3885.6	3855.6	3812.4	3776.4	3729.6
37.5°	4120.8	4108.8	4124.4	4158.0	4206.0	4228.8	4261.2	4262.4	4242.0	4194.0	4153.2
40°	4323.6	4318.8	4354.8	4401.6	4490.4	4555.2	4616.4	4646.4	4653.6	4622.4	4561.2
42.5°	4495.2	4509.6	4557.6	4629.6	4754.4	4852.8	4966.8	5037.6	5082.0	5065.2	5037.6
45°	4699.2	4706.4	4765.2	4856.4	4975.2	5138.4	5288.4	5408.4	5486.4	5485.2	5454.0
47.5°	4954.8	4956.0	5006.4	5113.2	5240.4	5406.0	5595.6	5755.2	5858.4	5863.2	5839.2
50°	5258.4	5256.0	5311.2	5412.0	5547.6	5707.2	5908.8	6108.0	6252.0	6252.0	6217.2
52.5°	5649.6	5644.8	5674.8	5763.6	5894.4	6062.4	6262.8	6493.2	6649.2	6682.8	6607.2
55°	6171.6	6178.8	6186.0	6264.0	6375.6	6508.8	6739.2	6951.6	7160.4	7179.6	7135.2
57.5°	6775.2	6751.2	6802.8	6930.0	7057.2	7224.0	7387.2	7638.0	7885.2	7927.2	7921.2
60°	7718.4	7687.2	7740.0	7902.0	8042.4	8305.2	8584.8	8908.8	9201.6	9288.0	9183.6
62.5°	8586.0	8624.4	8696.4	8884.8	9088.8	9439.2	9859.2	10414.8	10970.4	11272.8	11251.2
65°	8508.0	8472.0	8610.0	8866.8	9236.4	9682.8	10204.8	10874.4	11674.8	12282.0	12336.0
66°	8218.8	8181.6	8330.4	8624.4	9046.8	9543.6	10123.2	10804.8	11623.2	12309.6	12392.4
67.5°	7741.2	7704.0	7872.0	8139.6	8575.2	9200.4	9826.8	10572.0	11422.8	12080.4	12147.6
70°	6819.6	6769.2	6900.0	7202.4	7555.2	8160.0	8756.4	9546.0	10419.6	10945.2	10970.4
72.5°	5776.8	5659.2	5798.4	6031.2	6283.2	6783.6	7303.2	7843.2	8539.2	9025.2	9164.4
75°	4191.6	4252.8	4293.6	4447.2	4614.0	5028.0	5332.8	5785.2	6324.0	6675.6	6787.2
77.5°	2223.6	2316.0	2373.6	2527.2	2803.2	3118.8	3448.8	3728.4	4082.4	4279.2	4416.0
80°	1248.0	1312.8	1406.4	1527.6	1662.0	1904.4	2100.0	2244.0	2294.4	2329.2	2360.4
82.5°	686.4	850.8	990.0	1074.0	1153.2	1250.4	1366.8	1486.8	1525.2	1467.6	1437.6
85°	106.8	157.2	478.8	584.4	636.0	710.4	794.4	883.2	884.4	760.8	830.4
87.5°	30.0	33.6	68.4	103.2	100.8	81.6	100.8	183.6	108.0	54.0	62.4
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: P159670

CATALOG NUMBER: VTS-E06-LED-E1-T4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	2443.2	2443.2	2443.2	2443.2	2443.2	2443.2	2443.2	2443.2	2443.2	2443.2	2443.2
2.5°	2412.0	2414.4	2420.4	2426.4	2432.4	2438.4	2442.0	2448.0	2452.8	2460.0	2468.4
5°	2402.4	2408.4	2419.2	2432.4	2444.4	2455.2	2463.6	2475.6	2486.4	2496.0	2510.4
7.5°	2402.4	2414.4	2432.4	2446.8	2457.6	2470.8	2484.0	2496.0	2508.0	2517.6	2527.2
10°	2403.6	2415.6	2433.6	2450.4	2462.4	2476.8	2487.6	2498.4	2511.6	2517.6	2529.6
12.5°	2408.4	2413.2	2426.4	2443.2	2457.6	2472.0	2482.8	2493.6	2508.0	2510.4	2518.8
15°	2432.4	2425.2	2428.8	2440.8	2456.4	2468.4	2480.4	2488.8	2498.4	2496.0	2503.2
17.5°	2476.8	2458.8	2451.6	2452.8	2460.0	2468.4	2473.2	2474.4	2475.6	2464.8	2466.0
20°	2536.8	2511.6	2494.8	2486.4	2476.8	2468.4	2455.2	2439.6	2425.2	2403.6	2401.2
22.5°	2626.8	2589.6	2571.6	2548.8	2520.0	2484.0	2451.6	2413.2	2382.0	2349.6	2337.6
25°	2757.6	2719.2	2700.0	2664.0	2612.4	2560.8	2514.0	2462.4	2416.8	2378.4	2360.4
27.5°	2932.8	2894.4	2874.0	2836.8	2773.2	2721.6	2656.8	2601.6	2546.4	2490.0	2467.2
30°	3145.2	3111.6	3088.8	3058.8	3003.6	2947.2	2871.6	2786.4	2698.8	2608.8	2564.4
32.5°	3396.0	3358.8	3342.0	3307.2	3249.6	3190.8	3106.8	2997.6	2851.2	2709.6	2620.8
35°	3709.2	3667.2	3648.0	3602.4	3535.2	3448.8	3358.8	3212.4	3014.4	2817.6	2672.4
37.5°	4128.0	4034.4	3970.8	3866.4	3758.4	3637.2	3508.8	3358.8	3124.8	2881.2	2679.6
40°	4498.8	4404.0	4281.6	4131.6	3963.6	3796.8	3650.4	3480.0	3225.6	2926.8	2656.8
42.5°	4959.6	4791.6	4596.0	4393.2	4170.0	3964.8	3790.8	3590.4	3294.0	2938.8	2593.2
45°	5380.8	5180.4	4918.8	4648.8	4371.6	4113.6	3918.0	3694.8	3352.8	2938.8	2516.4
47.5°	5764.8	5524.8	5211.6	4875.6	4552.8	4270.8	4048.8	3801.6	3435.6	2976.0	2493.6
50°	6120.0	5844.0	5487.6	5097.6	4735.2	4434.0	4195.2	3938.4	3561.6	3072.0	2548.8
52.5°	6494.4	6201.6	5767.2	5353.2	4953.6	4630.8	4376.4	4107.6	3724.8	3223.2	2646.0
55°	6985.2	6642.0	6148.8	5692.8	5253.6	4897.2	4608.0	4310.4	3903.6	3393.6	2764.8
57.5°	7759.2	7261.2	6768.0	6175.2	5761.2	5292.0	4975.2	4633.2	4194.0	3615.6	2943.6
60°	9114.0	8502.0	7909.2	7227.6	6716.4	6225.6	5746.8	5300.4	4771.2	4117.2	3336.0
62.5°	11048.4	10426.8	9495.6	8661.6	7890.0	7239.6	6615.6	6048.0	5368.8	4653.6	3819.6
65°	12204.0	11492.4	10382.4	9261.6	8324.4	7518.0	6804.0	6109.2	5376.0	4678.8	3966.0
66°	12296.4	11623.2	10437.6	9253.2	8280.0	7443.6	6700.8	5982.0	5230.8	4563.6	3918.0
67.5°	12124.8	11545.2	10324.8	9090.0	8095.2	7191.6	6428.4	5674.8	4920.0	4302.0	3758.4
70°	10914.0	10495.2	9448.8	8292.0	7299.6	6502.8	5697.6	4972.8	4257.6	3738.0	3334.8
72.5°	8947.2	8416.8	7684.8	6907.2	6126.0	5419.2	4687.2	4070.4	3470.4	3092.4	2806.8
75°	6572.4	6094.8	5288.4	4803.6	4287.6	3843.6	3350.4	2766.0	2340.0	2150.4	2080.8
77.5°	4166.4	3648.0	2967.6	2432.4	2091.6	1797.6	1417.2	1126.8	902.4	939.6	1040.4
80°	2104.8	1813.2	1357.2	1071.6	926.4	770.4	609.6	462.0	337.2	385.2	435.6
82.5°	1351.2	1128.0	898.8	708.0	597.6	526.8	421.2	306.0	228.0	256.8	314.4
85°	813.6	687.6	548.4	448.8	390.0	325.2	238.8	169.2	168.0	180.0	222.0
87.5°	123.6	176.4	102.0	109.2	115.2	123.6	109.2	92.4	80.4	104.4	132.0
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: P159670

CATALOG NUMBER: VTS-E06-LED-E1-T4

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2443.2	2443.2	2443.2	2443.2	2443.2	2443.2	2443.2	2443.2	2443.2	2443.2	2443.2
2.5°	2476.8	2479.2	2484.0	2490.0	2488.8	2497.2	2502.0	2497.2	2508.0	2508.0	2514.0
5°	2522.4	2526.0	2534.4	2540.4	2542.8	2550.0	2552.4	2551.2	2553.6	2554.8	2557.2
7.5°	2535.6	2545.2	2548.8	2552.4	2553.6	2556.0	2556.0	2553.6	2553.6	2552.4	2554.8
10°	2532.0	2535.6	2538.0	2536.8	2536.8	2534.4	2533.2	2532.0	2532.0	2529.6	2533.2
12.5°	2520.0	2520.0	2520.0	2517.6	2517.6	2516.4	2516.4	2516.4	2518.8	2520.0	2526.0
15°	2496.0	2496.0	2498.4	2497.2	2500.8	2506.8	2514.0	2518.8	2524.8	2526.0	2529.6
17.5°	2458.8	2460.0	2467.2	2482.8	2498.4	2516.4	2529.6	2533.2	2528.4	2516.4	2508.0
20°	2394.0	2409.6	2438.4	2475.6	2510.4	2533.2	2539.2	2524.8	2502.0	2470.8	2454.0
22.5°	2336.4	2367.6	2419.2	2480.4	2523.6	2539.2	2521.2	2487.6	2446.8	2410.8	2385.6
25°	2359.2	2395.2	2449.2	2502.0	2529.6	2521.2	2485.2	2437.2	2394.0	2352.0	2311.2
27.5°	2455.2	2491.2	2529.6	2545.2	2535.6	2504.4	2454.0	2402.4	2344.8	2284.8	2234.4
30°	2546.4	2566.8	2569.2	2553.6	2518.8	2468.4	2409.6	2349.6	2276.4	2204.4	2140.8
32.5°	2575.2	2551.2	2508.0	2463.6	2415.6	2364.0	2295.6	2216.4	2138.4	2056.8	1986.0
35°	2566.8	2469.6	2362.8	2268.0	2210.4	2151.6	2089.2	1983.6	1896.0	1826.4	1780.8
37.5°	2491.2	2313.6	2149.2	2011.2	1921.2	1851.6	1759.2	1671.6	1596.0	1564.8	1527.6
40°	2385.6	2114.4	1886.4	1693.2	1599.6	1510.8	1407.6	1340.4	1318.8	1290.0	1291.2
42.5°	2234.4	1881.6	1587.6	1365.6	1263.6	1166.4	1093.2	1053.6	1054.8	1030.8	1035.6
45°	2074.8	1647.6	1278.0	1057.2	956.4	873.6	832.8	820.8	822.0	823.2	816.0
47.5°	1977.6	1465.2	1024.8	801.6	712.8	666.0	644.4	638.4	639.6	640.8	632.4
50°	1963.2	1370.4	855.6	613.2	555.6	529.2	518.4	512.4	512.4	507.6	500.4
52.5°	2004.0	1346.4	772.8	531.6	476.4	452.4	444.0	439.2	432.0	422.4	409.2
55°	2068.8	1368.0	747.6	504.0	450.0	426.0	415.2	412.8	400.8	382.8	361.2
57.5°	2188.8	1446.0	764.4	511.2	454.8	433.2	426.0	423.6	406.8	379.2	351.6
60°	2533.2	1672.8	848.4	552.0	489.6	471.6	471.6	468.0	445.2	405.6	366.0
62.5°	3008.4	2005.2	962.4	608.4	537.6	535.2	555.6	556.8	516.0	452.4	390.0
65°	3237.6	2161.2	1002.0	620.4	550.8	578.4	619.2	619.2	561.6	474.0	393.6
66°	3238.8	2157.6	990.0	606.0	536.4	572.4	614.4	614.4	554.4	468.0	387.6
67.5°	3156.0	2090.4	950.4	579.6	504.0	537.6	574.8	573.6	519.6	444.0	370.8
70°	2830.8	1849.2	837.6	536.4	465.6	466.8	480.0	471.6	435.6	384.0	337.2
72.5°	2440.8	1546.8	726.0	508.8	435.6	412.8	402.0	394.8	372.0	340.8	312.0
75°	1872.0	1201.2	632.4	483.6	409.2	369.6	355.2	349.2	333.6	315.6	292.8
77.5°	1147.2	823.2	536.4	442.8	379.2	343.2	327.6	315.6	300.0	283.2	267.6
80°	494.4	496.8	429.6	375.6	330.0	288.0	267.6	253.2	244.8	238.8	230.4
82.5°	345.6	356.4	327.6	291.6	252.0	222.0	204.0	200.4	201.6	201.6	199.2
85°	259.2	254.4	229.2	208.8	190.8	171.6	157.2	156.0	160.8	160.8	157.2
87.5°	150.0	151.2	129.6	121.2	126.0	108.0	98.4	99.6	111.6	110.4	108.0
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: P159670

CATALOG NUMBER: VTS-E06-LED-E1-T4

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	2443.2	2443.2	2443.2	2443.2	2443.2
2.5°	2514.0	2517.6	2516.4	2520.0	2516.4
5°	2560.8	2559.6	2558.4	2563.2	2557.2
7.5°	2553.6	2554.8	2554.8	2554.8	2553.6
10°	2535.6	2540.4	2542.8	2547.6	2546.4
12.5°	2529.6	2536.8	2544.0	2551.2	2552.4
15°	2530.8	2535.6	2539.2	2542.8	2544.0
17.5°	2499.6	2498.4	2494.8	2492.4	2490.0
20°	2436.0	2430.0	2424.0	2414.4	2419.2
22.5°	2356.8	2340.0	2320.8	2305.2	2304.0
25°	2264.4	2233.2	2202.0	2181.6	2174.4
27.5°	2182.8	2145.6	2113.2	2095.2	2090.4
30°	2085.6	2052.0	2023.2	2007.6	1998.0
32.5°	1941.6	1915.2	1879.2	1867.2	1866.0
35°	1741.2	1720.8	1695.6	1690.8	1684.8
37.5°	1514.4	1507.2	1495.2	1480.8	1478.4
40°	1272.0	1276.8	1273.2	1264.8	1251.6
42.5°	1038.0	1046.4	1047.6	1053.6	1059.6
45°	826.8	834.0	834.0	840.0	847.2
47.5°	634.8	630.0	633.6	639.6	643.2
50°	480.0	476.4	470.4	465.6	460.8
52.5°	386.4	379.2	362.4	357.6	352.8
55°	340.8	327.6	315.6	310.8	310.8
57.5°	327.6	310.8	297.6	291.6	289.2
60°	330.0	306.0	289.2	279.6	276.0
62.5°	340.8	307.2	284.4	273.6	270.0
65°	339.6	304.8	283.2	271.2	267.6
66°	333.6	301.2	280.8	270.0	267.6
67.5°	324.0	296.4	278.4	268.8	265.2
70°	304.8	286.8	273.6	265.2	261.6
72.5°	289.2	277.2	265.2	255.6	253.2
75°	274.8	262.8	252.0	247.2	243.6
77.5°	253.2	242.4	236.4	231.6	229.2
80°	224.4	217.2	210.0	205.2	201.6
82.5°	195.6	186.0	178.8	175.2	172.8
85°	159.6	153.6	142.8	135.6	134.4
87.5°	106.8	100.8	97.2	91.2	85.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)