

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: P159780

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159780
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
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
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

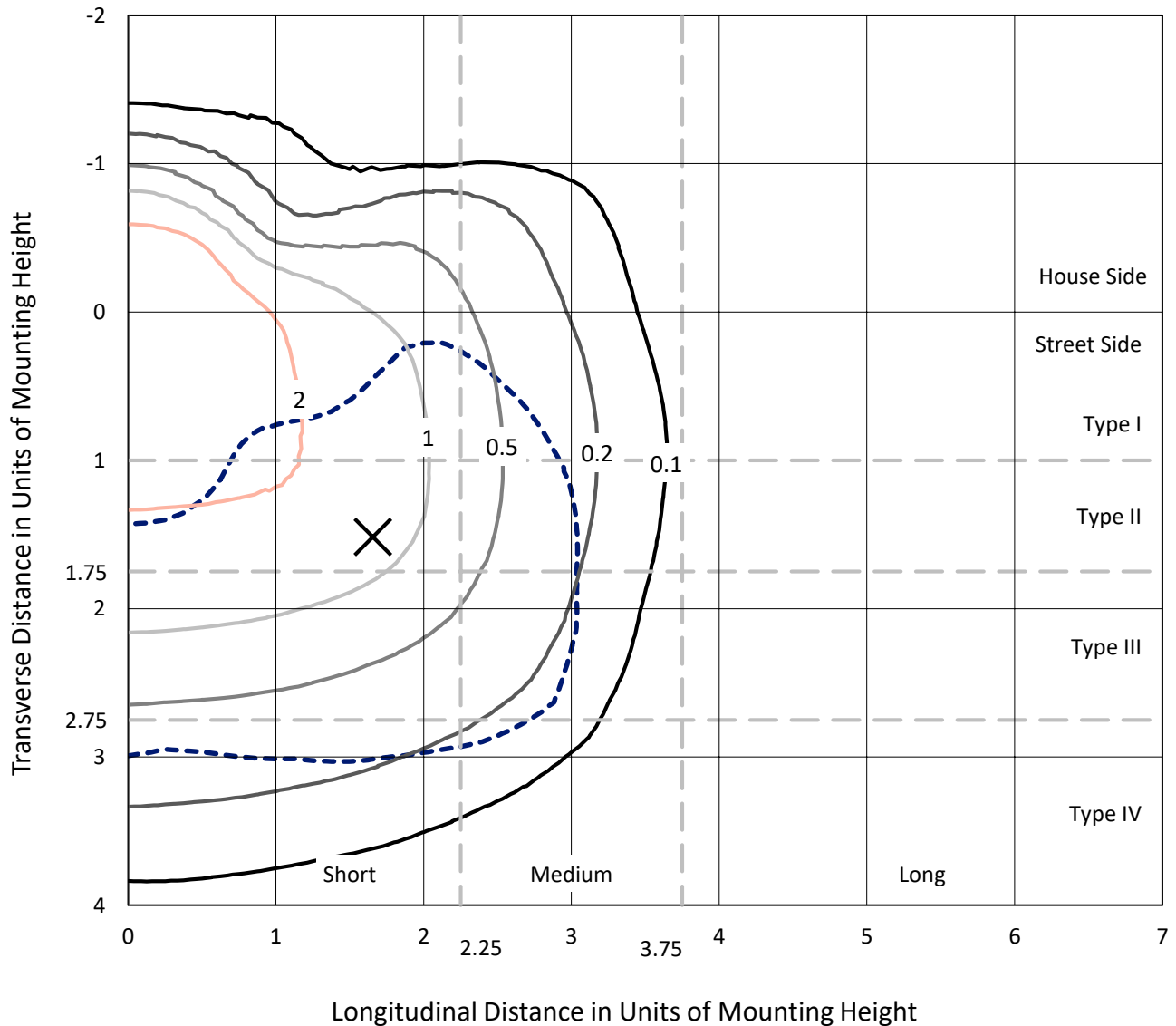
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

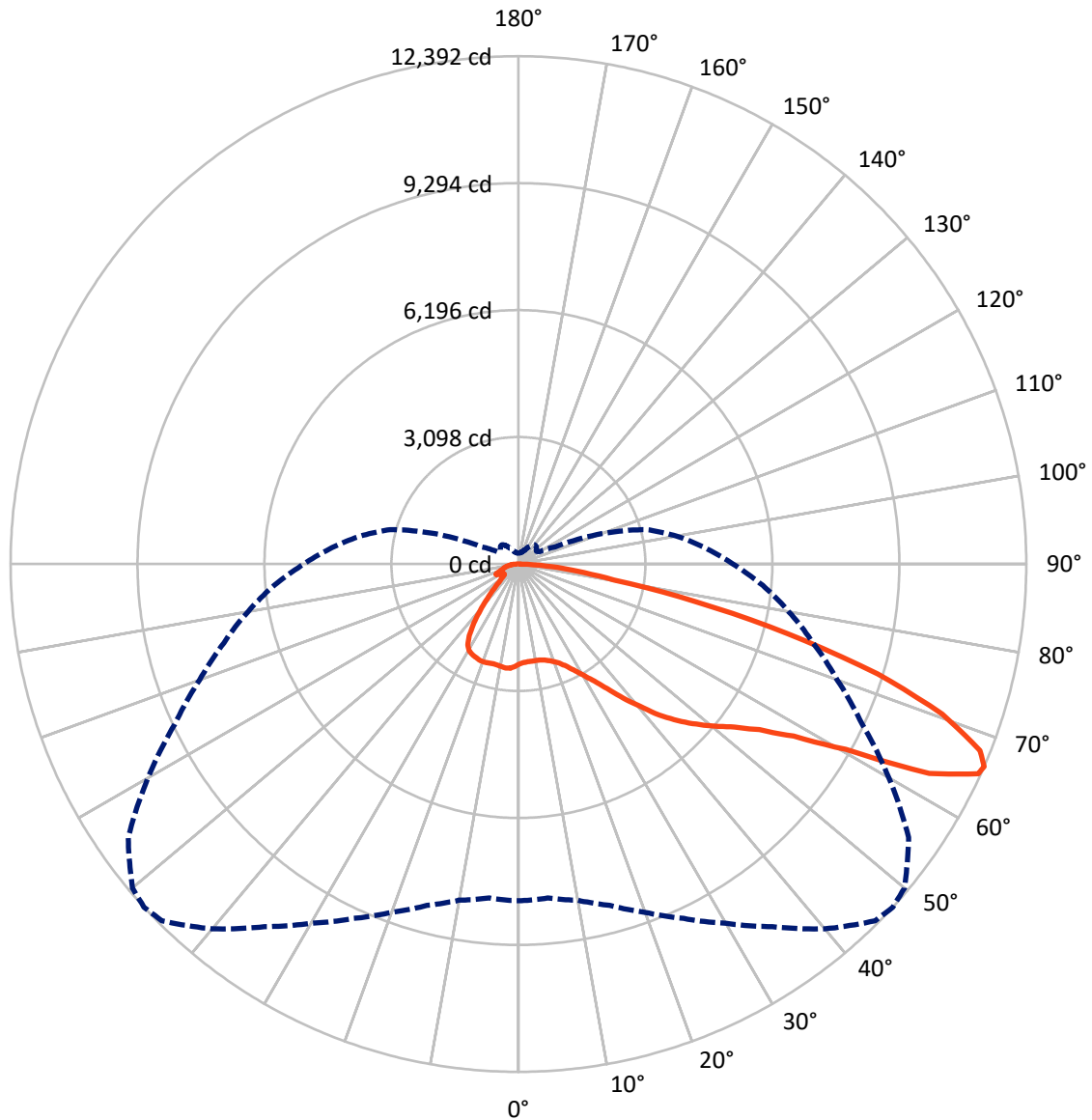
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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



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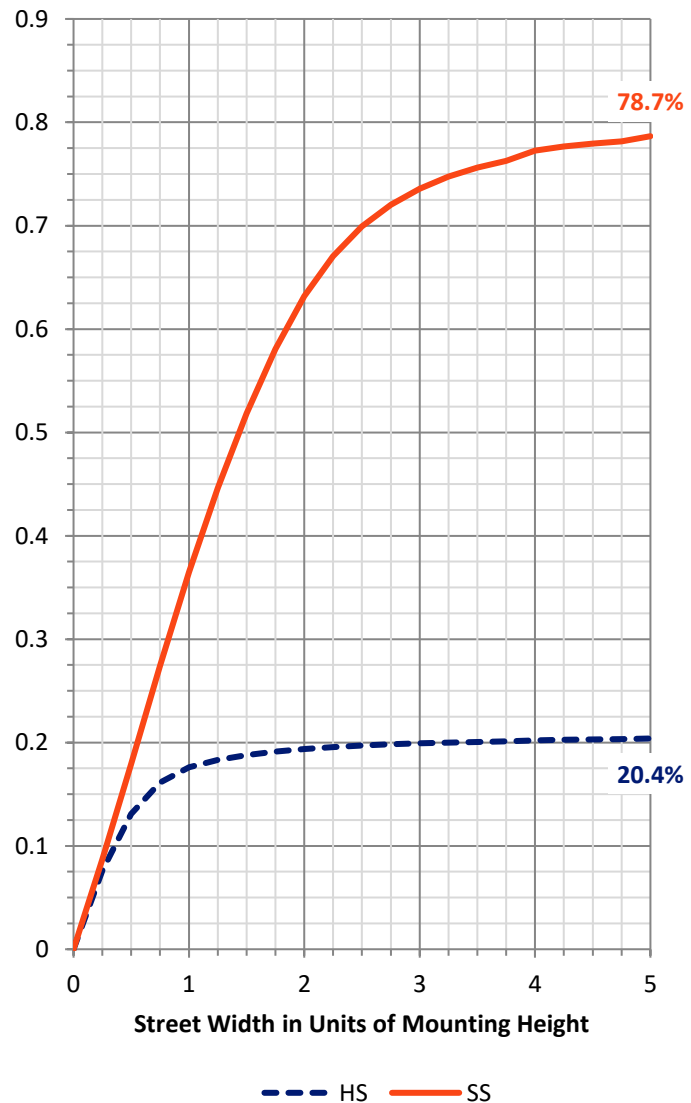
FLUX DISTRIBUTION:

| | | 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 |

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 |

Coefficient of Utilization



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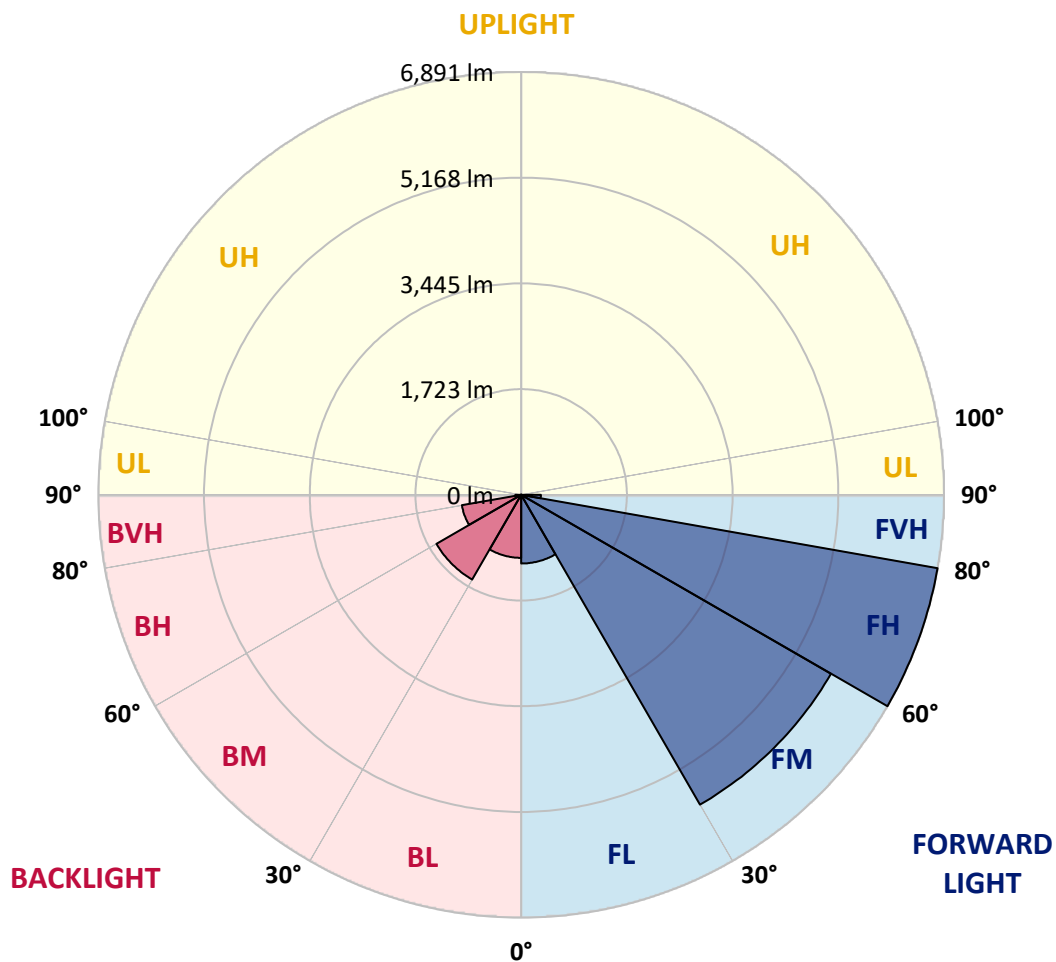
CATALOG NUMBER: VST-E06-LED-E-U-T4

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





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CATALOG NUMBER: VST-E06-LED-E-U-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 | 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 |



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CATALOG NUMBER: VST-E06-LED-E-U-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 |



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CATALOG NUMBER: VST-E06-LED-E-U-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 |
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