

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: P159485

Luminaire Tested: **VTS-F09-LED-E1-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159485
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33706)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F09-LED-E1-T3
Description: VENTUS LED SITE LUMINAIRE
(9) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

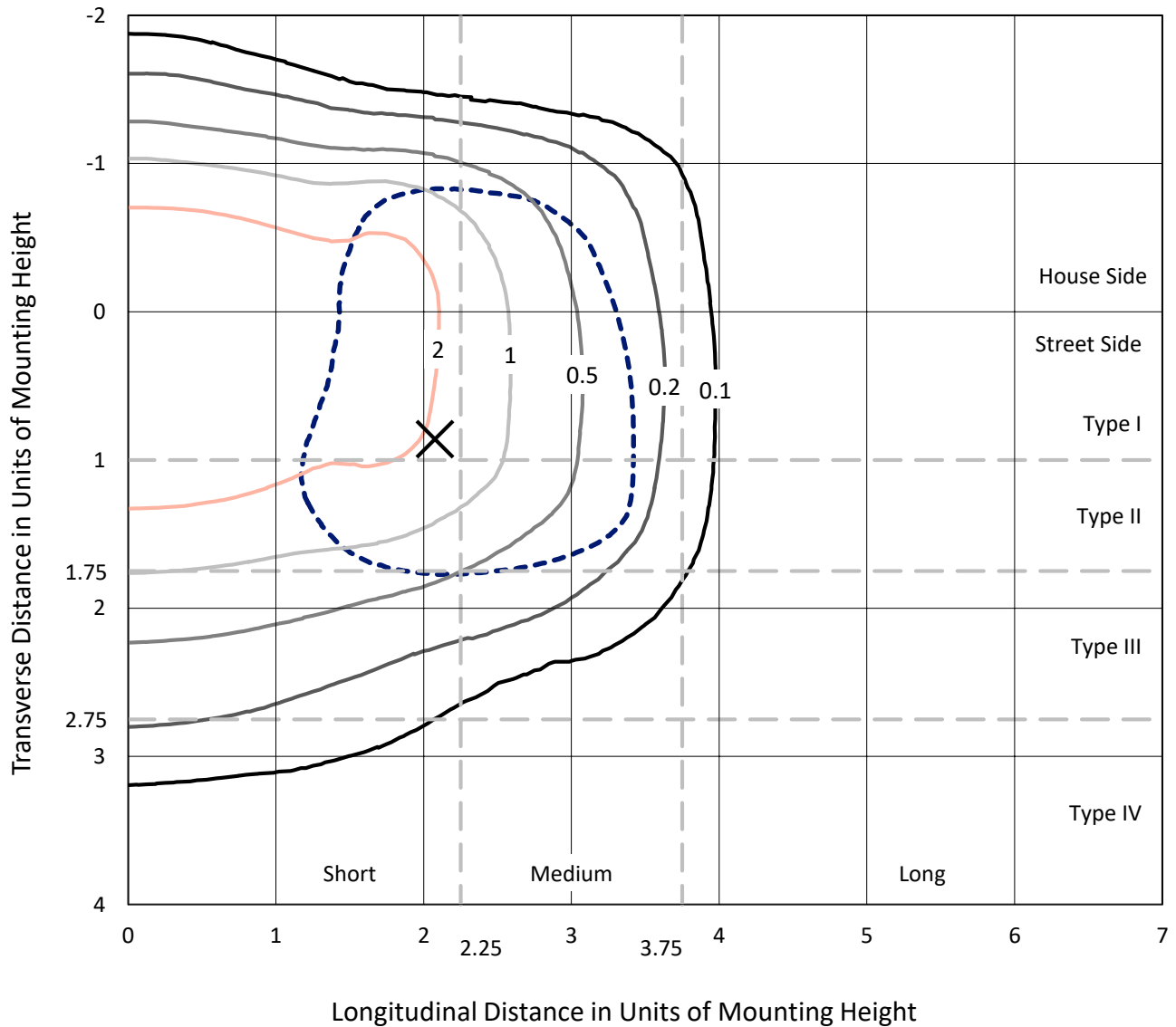
Lumens per Lamp: N/A
Luminaire Lumens: 22722.8 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 234.8
Input Voltage (V): NR
Input Current (A_{in}): 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

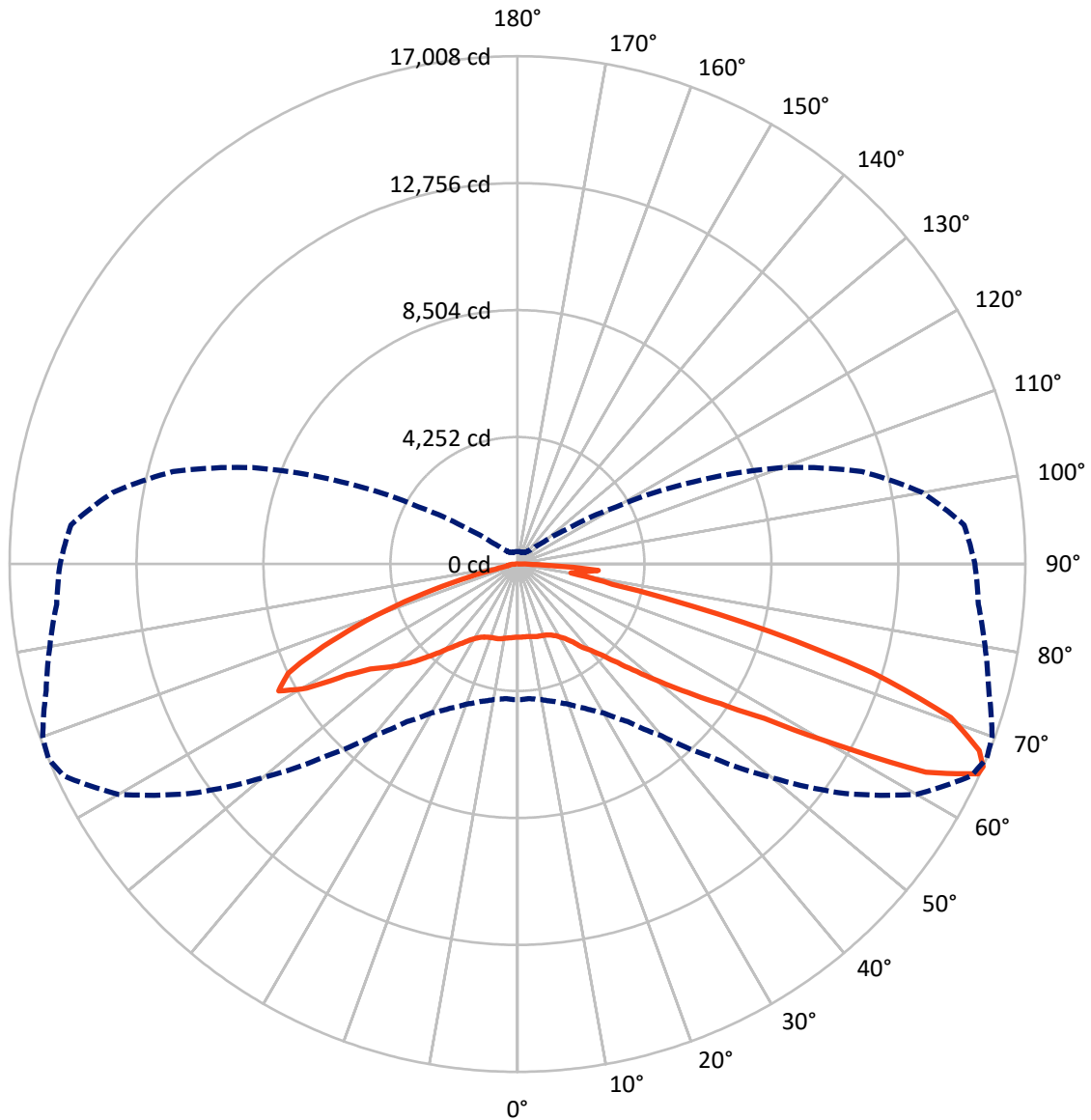
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7863.1 | 0.0 | 7863.1 |
| | % Fixture | 34.6 | 0.0 | 34.6 |
| Street Side | Lumens | 14859.7 | 0.0 | 14859.7 |
| | % Fixture | 65.4 | 0.0 | 65.4 |
| Total | Lumens | 22722.8 | 0.0 | 22722.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 235.3 | 1.0 |
| 10°-20° | 696.7 | 3.1 |
| 20°-30° | 1197.6 | 5.3 |
| 30°-40° | 1935.5 | 8.5 |
| 40°-50° | 3207.7 | 14.1 |
| 50°-60° | 5034.1 | 22.2 |
| 60°-70° | 6882.6 | 30.3 |
| 70°-80° | 3026.7 | 13.3 |
| 80°-90° | 506.6 | 2.2 |
| 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° | 22722.8 | 100.0 |
| 0°-180° | 22722.8 | 100.0 |



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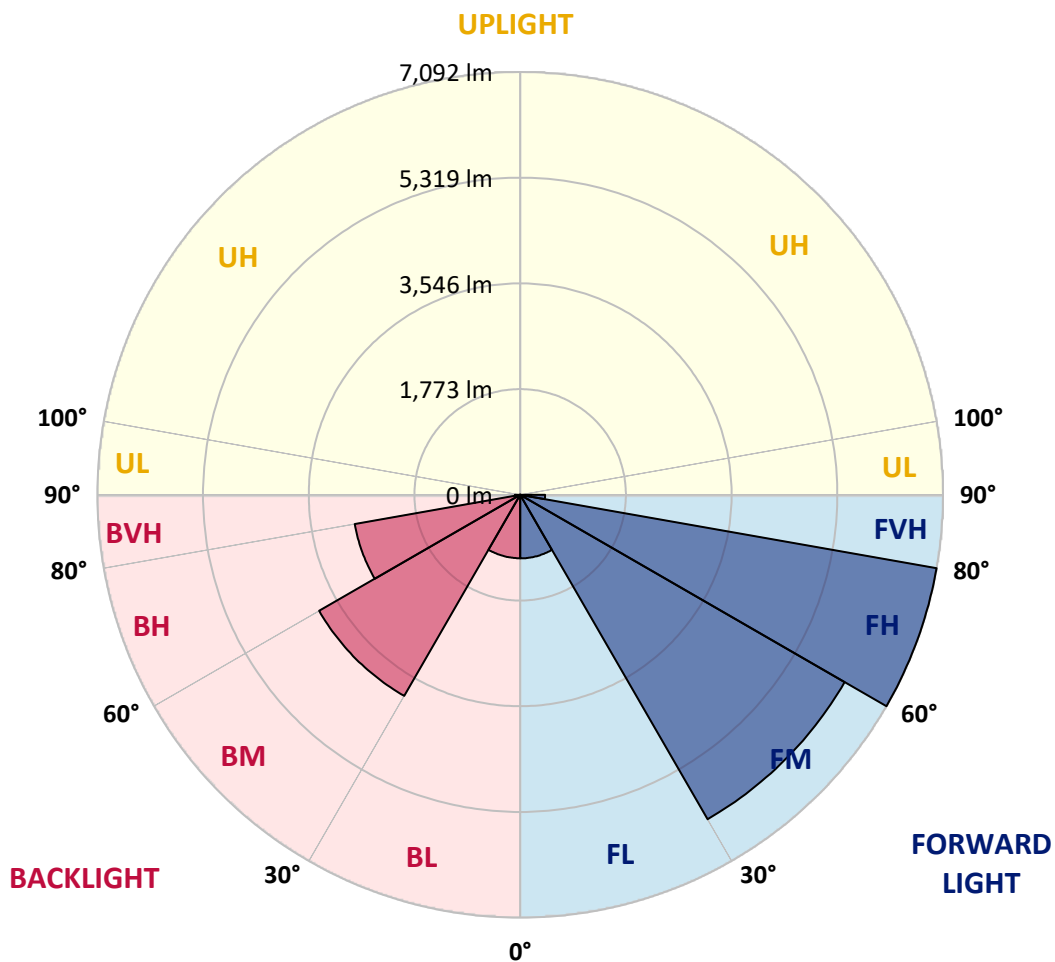
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1065.9 | 4.7 | | | |
| FM | (30°-60°) | 6283.5 | 27.7 | | | |
| FH | (60°-80°) | 7092.3 | 31.2 | | | G3/7500 |
| FVH | (80°-90°) | 418.0 | 1.8 | | | G3/500 |
| BL | (0°-30°) | 1063.7 | 4.7 | B3/2500 | | |
| BM | (30°-60°) | 3893.8 | 17.1 | B3/5000 | | |
| BH | (60°-80°) | 2817.0 | 12.4 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 88.6 | 0.4 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 0° | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 |
| 2.5° | 2447.4 | 2447.4 | 2448.8 | 2447.4 | 2447.4 | 2445.9 | 2451.8 | 2451.8 | 2451.8 | 2450.3 | 2454.8 |
| 5° | 2441.4 | 2441.4 | 2442.9 | 2442.9 | 2444.4 | 2442.9 | 2447.4 | 2448.8 | 2448.8 | 2448.8 | 2453.3 |
| 7.5° | 2426.5 | 2431.0 | 2428.0 | 2429.5 | 2431.0 | 2435.5 | 2441.4 | 2444.4 | 2447.4 | 2451.8 | 2453.3 |
| 10° | 2395.3 | 2402.8 | 2401.3 | 2405.7 | 2407.2 | 2420.6 | 2425.1 | 2431.0 | 2441.4 | 2447.4 | 2451.8 |
| 12.5° | 2352.3 | 2356.7 | 2358.2 | 2364.1 | 2370.1 | 2386.4 | 2398.3 | 2408.7 | 2423.6 | 2438.4 | 2453.3 |
| 15° | 2318.1 | 2321.0 | 2321.0 | 2327.0 | 2335.9 | 2350.8 | 2365.6 | 2383.5 | 2405.7 | 2431.0 | 2454.8 |
| 17.5° | 2328.5 | 2335.9 | 2330.0 | 2328.5 | 2331.4 | 2340.4 | 2353.7 | 2368.6 | 2395.3 | 2423.6 | 2451.8 |
| 20° | 2396.8 | 2398.3 | 2395.3 | 2387.9 | 2382.0 | 2383.5 | 2383.5 | 2386.4 | 2402.8 | 2425.1 | 2447.4 |
| 22.5° | 2453.3 | 2459.2 | 2457.8 | 2459.2 | 2457.8 | 2463.7 | 2460.7 | 2454.8 | 2448.8 | 2450.3 | 2460.7 |
| 25° | 2502.3 | 2508.3 | 2508.3 | 2512.7 | 2520.2 | 2532.1 | 2541.0 | 2539.5 | 2530.6 | 2518.7 | 2514.2 |
| 27.5° | 2582.6 | 2582.6 | 2582.6 | 2587.0 | 2597.4 | 2612.3 | 2627.2 | 2636.1 | 2643.5 | 2631.6 | 2606.3 |
| 30° | 2708.9 | 2710.4 | 2705.9 | 2707.4 | 2714.8 | 2734.1 | 2752.0 | 2765.3 | 2780.2 | 2778.7 | 2746.0 |
| 32.5° | 2847.1 | 2853.0 | 2851.5 | 2857.5 | 2867.9 | 2885.7 | 2905.0 | 2925.8 | 2945.1 | 2957.0 | 2936.2 |
| 35° | 3025.4 | 3031.3 | 3032.8 | 3041.7 | 3053.6 | 3080.4 | 3107.1 | 3133.9 | 3154.7 | 3163.6 | 3159.1 |
| 37.5° | 3318.1 | 3319.6 | 3313.7 | 3300.3 | 3304.7 | 3325.5 | 3356.7 | 3399.8 | 3413.2 | 3422.1 | 3442.9 |
| 40° | 3756.5 | 3752.0 | 3728.2 | 3716.3 | 3708.9 | 3717.8 | 3711.9 | 3746.1 | 3777.3 | 3778.8 | 3777.3 |
| 42.5° | 4288.4 | 4275.1 | 4252.8 | 4249.8 | 4246.8 | 4243.9 | 4227.5 | 4229.0 | 4257.2 | 4264.7 | 4255.7 |
| 45° | 4817.4 | 4801.1 | 4784.7 | 4799.6 | 4781.8 | 4827.8 | 4841.2 | 4876.9 | 4881.3 | 4896.2 | 4873.9 |
| 47.5° | 5251.3 | 5252.8 | 5252.8 | 5273.6 | 5309.3 | 5397.0 | 5475.7 | 5544.1 | 5569.3 | 5605.0 | 5609.4 |
| 50° | 5579.7 | 5588.6 | 5616.9 | 5683.7 | 5759.5 | 5906.6 | 6038.9 | 6162.2 | 6273.7 | 6315.3 | 6425.2 |
| 52.5° | 5771.4 | 5795.2 | 5854.6 | 5966.1 | 6101.3 | 6291.5 | 6499.5 | 6709.0 | 6902.2 | 7065.7 | 7196.4 |
| 55° | 5737.2 | 5755.1 | 5859.1 | 6032.9 | 6243.9 | 6499.5 | 6790.8 | 7093.9 | 7395.5 | 7671.9 | 7885.9 |
| 57.5° | 5517.3 | 5529.2 | 5633.2 | 5829.4 | 6092.4 | 6435.6 | 6847.2 | 7297.5 | 7721.0 | 8166.8 | 8532.3 |
| 60° | 5229.0 | 5246.9 | 5343.5 | 5498.0 | 5772.9 | 6138.4 | 6615.4 | 7226.1 | 7902.3 | 8603.6 | 9287.2 |
| 62.5° | 5044.8 | 5040.3 | 5125.0 | 5263.2 | 5469.8 | 5801.1 | 6260.3 | 6983.9 | 7920.1 | 9105.9 | 10456.6 |
| 65° | 4738.7 | 4725.3 | 4813.0 | 4970.5 | 5194.9 | 5515.8 | 5951.2 | 6646.6 | 7732.9 | 9296.1 | 11211.5 |
| 66° | 4548.5 | 4521.7 | 4609.4 | 4768.4 | 4992.8 | 5334.5 | 5752.1 | 6438.6 | 7505.5 | 9110.3 | 11131.2 |
| 67.5° | 4215.6 | 4202.3 | 4243.9 | 4368.7 | 4535.1 | 4856.1 | 5291.4 | 5982.4 | 6967.6 | 8551.6 | 10542.8 |
| 70° | 3426.6 | 3396.9 | 3429.6 | 3486.0 | 3549.9 | 3628.7 | 3896.1 | 4444.5 | 5278.1 | 6813.1 | 8493.7 |
| 72.5° | 2334.4 | 2319.6 | 2380.5 | 2466.7 | 2637.6 | 2717.8 | 2823.3 | 2912.5 | 3206.7 | 4294.4 | 5924.5 |
| 75° | 1775.7 | 1784.6 | 1861.9 | 2004.5 | 2224.5 | 2462.2 | 2694.0 | 2778.7 | 2680.6 | 2595.9 | 3362.7 |
| 77.5° | 995.6 | 1047.6 | 1141.2 | 1322.5 | 1555.8 | 1891.6 | 2295.8 | 2741.6 | 2964.5 | 2909.5 | 2720.8 |
| 80° | 410.1 | 402.7 | 448.8 | 548.3 | 628.6 | 903.5 | 1381.9 | 1940.6 | 2567.7 | 2964.5 | 2902.1 |
| 82.5° | 114.4 | 117.4 | 151.6 | 194.7 | 251.1 | 319.5 | 499.3 | 802.4 | 1307.6 | 2034.3 | 2662.8 |
| 85° | 35.7 | 35.7 | 49.0 | 72.8 | 86.2 | 99.6 | 126.3 | 208.0 | 355.1 | 708.8 | 1436.9 |
| 87.5° | 7.4 | 7.4 | 10.4 | 20.8 | 22.3 | 22.3 | 28.2 | 38.6 | 34.2 | 31.2 | 139.7 |
| 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: VTS-F09-LED-E1-T3

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 |
| 2.5° | 2450.3 | 2447.4 | 2448.8 | 2450.3 | 2448.8 | 2448.8 | 2447.4 | 2445.9 | 2447.4 | 2447.4 | 2451.8 |
| 5° | 2448.8 | 2447.4 | 2448.8 | 2448.8 | 2448.8 | 2450.3 | 2450.3 | 2450.3 | 2454.8 | 2454.8 | 2462.2 |
| 7.5° | 2451.8 | 2451.8 | 2454.8 | 2454.8 | 2454.8 | 2454.8 | 2456.3 | 2459.2 | 2466.7 | 2465.2 | 2478.6 |
| 10° | 2457.8 | 2460.7 | 2468.2 | 2469.6 | 2469.6 | 2474.1 | 2477.1 | 2483.0 | 2490.4 | 2493.4 | 2505.3 |
| 12.5° | 2465.2 | 2480.0 | 2493.4 | 2496.4 | 2500.8 | 2508.3 | 2512.7 | 2515.7 | 2529.1 | 2533.5 | 2548.4 |
| 15° | 2474.1 | 2494.9 | 2511.2 | 2517.2 | 2523.1 | 2532.1 | 2538.0 | 2542.5 | 2554.3 | 2560.3 | 2578.1 |
| 17.5° | 2475.6 | 2499.4 | 2518.7 | 2527.6 | 2535.0 | 2545.4 | 2554.3 | 2563.3 | 2576.6 | 2585.5 | 2603.4 |
| 20° | 2474.1 | 2505.3 | 2535.0 | 2546.9 | 2554.3 | 2573.7 | 2587.0 | 2598.9 | 2615.3 | 2624.2 | 2642.0 |
| 22.5° | 2490.4 | 2526.1 | 2566.2 | 2581.1 | 2593.0 | 2619.7 | 2637.6 | 2656.9 | 2677.7 | 2683.6 | 2697.0 |
| 25° | 2529.1 | 2566.2 | 2616.7 | 2637.6 | 2658.4 | 2694.0 | 2719.3 | 2747.5 | 2768.3 | 2771.3 | 2775.7 |
| 27.5° | 2594.5 | 2628.6 | 2689.6 | 2720.8 | 2754.9 | 2805.5 | 2842.6 | 2870.8 | 2900.6 | 2900.6 | 2897.6 |
| 30° | 2726.7 | 2734.1 | 2798.0 | 2838.2 | 2888.7 | 2963.0 | 3018.0 | 3049.2 | 3071.4 | 3071.4 | 3046.2 |
| 32.5° | 2897.6 | 2888.7 | 2946.6 | 2989.7 | 3059.6 | 3163.6 | 3237.9 | 3261.6 | 3285.4 | 3278.0 | 3234.9 |
| 35° | 3144.3 | 3119.0 | 3151.7 | 3217.1 | 3295.8 | 3438.5 | 3515.7 | 3569.2 | 3584.1 | 3563.3 | 3494.9 |
| 37.5° | 3454.8 | 3451.8 | 3468.2 | 3541.0 | 3628.7 | 3812.9 | 3891.7 | 3925.9 | 3914.0 | 3876.8 | 3756.5 |
| 40° | 3783.2 | 3774.3 | 3763.9 | 3812.9 | 3911.0 | 4132.4 | 4272.1 | 4289.9 | 4273.6 | 4218.6 | 4067.0 |
| 42.5° | 4221.6 | 4221.6 | 4172.5 | 4185.9 | 4267.6 | 4515.8 | 4680.7 | 4737.2 | 4738.7 | 4658.4 | 4456.3 |
| 45° | 4824.9 | 4818.9 | 4732.7 | 4711.9 | 4774.3 | 5018.0 | 5230.5 | 5261.7 | 5261.7 | 5156.2 | 4934.8 |
| 47.5° | 5550.0 | 5542.6 | 5457.9 | 5385.1 | 5397.0 | 5660.0 | 5836.8 | 5884.3 | 5842.7 | 5764.0 | 5501.0 |
| 50° | 6367.3 | 6353.9 | 6267.7 | 6199.4 | 6169.6 | 6435.6 | 6585.7 | 6608.0 | 6547.1 | 6453.5 | 6168.2 |
| 52.5° | 7196.4 | 7236.6 | 7186.0 | 7148.9 | 7159.3 | 7331.7 | 7486.2 | 7380.7 | 7349.5 | 7248.4 | 6961.7 |
| 55° | 8059.8 | 8183.1 | 8294.5 | 8261.9 | 8300.5 | 8468.4 | 8498.1 | 8358.4 | 8302.0 | 8229.2 | 7909.7 |
| 57.5° | 8929.0 | 9288.6 | 9654.2 | 9756.7 | 9851.8 | 10092.5 | 10058.4 | 9829.5 | 9872.6 | 9981.1 | 9621.5 |
| 60° | 10143.1 | 11181.7 | 12109.0 | 12279.8 | 12575.6 | 12780.6 | 12826.7 | 12782.1 | 12982.7 | 12926.2 | 12608.2 |
| 62.5° | 12007.9 | 13739.0 | 15028.8 | 15349.8 | 15647.0 | 15636.6 | 15480.6 | 15320.1 | 15517.7 | 15517.7 | 14687.1 |
| 65° | 13339.3 | 15303.7 | 16684.2 | 16950.2 | 16938.3 | 16580.2 | 16211.7 | 15890.7 | 15862.5 | 15642.5 | 14428.5 |
| 66° | 13401.7 | 15424.1 | 16776.3 | 17008.1 | 16919.0 | 16342.4 | 15901.1 | 15493.9 | 15320.1 | 15014.0 | 13770.3 |
| 67.5° | 12840.0 | 15083.8 | 16476.2 | 16678.2 | 16443.5 | 15617.3 | 15009.5 | 14464.2 | 14211.6 | 13696.0 | 12525.0 |
| 70° | 10532.4 | 12963.4 | 14988.7 | 15401.8 | 15135.8 | 14089.7 | 13257.6 | 12520.6 | 12037.6 | 11293.2 | 10449.2 |
| 72.5° | 7688.3 | 9571.0 | 11764.2 | 12435.9 | 12394.3 | 11431.4 | 10761.2 | 10086.6 | 9452.1 | 8774.5 | 8157.8 |
| 75° | 4997.2 | 6226.1 | 7449.0 | 7841.3 | 7652.6 | 7095.4 | 6615.4 | 6221.7 | 5619.8 | 5148.8 | 5034.4 |
| 77.5° | 2853.0 | 3486.0 | 3297.3 | 3248.3 | 3012.0 | 2431.0 | 1616.7 | 1133.8 | 1023.8 | 1277.9 | 1401.2 |
| 80° | 2714.8 | 2460.7 | 2014.9 | 1817.3 | 1670.2 | 1138.2 | 597.3 | 420.5 | 368.5 | 377.4 | 405.7 |
| 82.5° | 3061.0 | 3190.3 | 2609.3 | 2179.9 | 1897.6 | 1384.9 | 756.3 | 352.2 | 257.1 | 304.6 | 341.8 |
| 85° | 2294.3 | 3230.4 | 3202.2 | 2713.3 | 2225.9 | 1595.9 | 894.5 | 269.0 | 154.5 | 214.0 | 279.4 |
| 87.5° | 465.1 | 765.3 | 737.0 | 647.9 | 551.3 | 384.9 | 150.1 | 84.7 | 77.3 | 105.5 | 160.5 |
| 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):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 |
| 2.5° | 2454.8 | 2454.8 | 2457.8 | 2462.2 | 2463.7 | 2463.7 | 2466.7 | 2463.7 | 2469.6 | 2471.1 | 2472.6 |
| 5° | 2468.2 | 2472.6 | 2475.6 | 2483.0 | 2487.5 | 2490.4 | 2494.9 | 2491.9 | 2497.9 | 2499.4 | 2502.3 |
| 7.5° | 2483.0 | 2490.4 | 2496.4 | 2499.4 | 2505.3 | 2505.3 | 2506.8 | 2503.8 | 2502.3 | 2497.9 | 2496.4 |
| 10° | 2509.8 | 2514.2 | 2521.6 | 2518.7 | 2515.7 | 2505.3 | 2496.4 | 2483.0 | 2475.6 | 2462.2 | 2454.8 |
| 12.5° | 2552.9 | 2555.8 | 2555.8 | 2542.5 | 2523.1 | 2499.4 | 2477.1 | 2454.8 | 2436.9 | 2422.1 | 2413.2 |
| 15° | 2582.6 | 2588.5 | 2581.1 | 2561.8 | 2533.5 | 2500.8 | 2471.1 | 2441.4 | 2417.6 | 2398.3 | 2386.4 |
| 17.5° | 2604.9 | 2603.4 | 2590.0 | 2563.3 | 2536.5 | 2508.3 | 2481.5 | 2450.3 | 2420.6 | 2392.4 | 2374.5 |
| 20° | 2639.0 | 2624.2 | 2600.4 | 2572.2 | 2543.9 | 2520.2 | 2499.4 | 2469.6 | 2438.4 | 2399.8 | 2373.1 |
| 22.5° | 2685.1 | 2658.4 | 2624.2 | 2594.5 | 2567.7 | 2545.4 | 2521.6 | 2496.4 | 2463.7 | 2420.6 | 2383.5 |
| 25° | 2750.5 | 2704.4 | 2665.8 | 2636.1 | 2612.3 | 2587.0 | 2560.3 | 2527.6 | 2494.9 | 2450.3 | 2405.7 |
| 27.5° | 2850.0 | 2781.7 | 2732.7 | 2705.9 | 2683.6 | 2649.4 | 2615.3 | 2576.6 | 2535.0 | 2489.0 | 2438.4 |
| 30° | 2970.4 | 2888.7 | 2832.2 | 2808.4 | 2781.7 | 2743.1 | 2705.9 | 2652.4 | 2594.5 | 2539.5 | 2477.1 |
| 32.5° | 3111.6 | 3028.4 | 2971.9 | 2954.1 | 2911.0 | 2866.4 | 2814.4 | 2743.1 | 2667.3 | 2585.5 | 2511.2 |
| 35° | 3325.5 | 3220.0 | 3168.0 | 3126.4 | 3067.0 | 3013.5 | 2925.8 | 2832.2 | 2723.7 | 2615.3 | 2523.1 |
| 37.5° | 3545.5 | 3438.5 | 3385.0 | 3327.0 | 3249.8 | 3151.7 | 3034.3 | 2900.6 | 2756.4 | 2622.7 | 2509.8 |
| 40° | 3839.7 | 3723.8 | 3655.4 | 3566.3 | 3441.4 | 3288.4 | 3114.5 | 2931.8 | 2756.4 | 2590.0 | 2453.3 |
| 42.5° | 4182.9 | 4075.9 | 3970.4 | 3823.3 | 3622.7 | 3399.8 | 3156.1 | 2921.4 | 2708.9 | 2517.2 | 2373.1 |
| 45° | 4658.4 | 4475.7 | 4307.8 | 4071.5 | 3778.8 | 3465.2 | 3160.6 | 2872.3 | 2627.2 | 2414.7 | 2254.2 |
| 47.5° | 5193.4 | 4957.1 | 4659.9 | 4289.9 | 3890.2 | 3490.5 | 3117.5 | 2780.2 | 2497.9 | 2267.6 | 2092.2 |
| 50° | 5810.0 | 5447.5 | 4991.3 | 4463.8 | 3946.7 | 3456.3 | 3015.0 | 2625.7 | 2319.6 | 2055.1 | 1867.8 |
| 52.5° | 6515.9 | 5963.1 | 5291.4 | 4587.1 | 3937.8 | 3352.3 | 2845.6 | 2422.1 | 2080.3 | 1799.5 | 1615.2 |
| 55° | 7299.0 | 6524.8 | 5578.2 | 4665.9 | 3857.5 | 3150.2 | 2579.6 | 2135.3 | 1783.1 | 1506.7 | 1344.8 |
| 57.5° | 8679.4 | 7510.0 | 6125.1 | 4771.4 | 3689.6 | 2844.1 | 2242.3 | 1772.7 | 1454.7 | 1220.0 | 1065.4 |
| 60° | 11244.1 | 9232.2 | 7160.8 | 5019.5 | 3437.0 | 2460.7 | 1817.3 | 1390.8 | 1124.9 | 954.0 | 839.6 |
| 62.5° | 12831.1 | 10444.7 | 7666.0 | 4983.9 | 3026.9 | 1936.2 | 1349.2 | 1031.2 | 821.7 | 708.8 | 637.5 |
| 65° | 12455.2 | 9969.2 | 7049.3 | 4281.0 | 2355.2 | 1373.0 | 893.1 | 674.6 | 564.7 | 506.7 | 472.5 |
| 66° | 11944.0 | 9437.2 | 6527.8 | 3833.7 | 2052.1 | 1147.1 | 737.0 | 566.1 | 485.9 | 442.8 | 425.0 |
| 67.5° | 10872.7 | 8465.4 | 5630.2 | 3070.0 | 1538.0 | 854.4 | 543.9 | 444.3 | 395.3 | 373.0 | 361.1 |
| 70° | 9099.9 | 6820.5 | 3982.3 | 1812.9 | 833.6 | 463.6 | 347.7 | 309.1 | 297.2 | 289.8 | 285.3 |
| 72.5° | 7035.9 | 4937.8 | 2327.0 | 891.6 | 420.5 | 300.2 | 264.5 | 248.2 | 243.7 | 243.7 | 245.2 |
| 75° | 4432.6 | 2838.2 | 1041.6 | 429.4 | 285.3 | 242.2 | 225.9 | 218.4 | 219.9 | 221.4 | 219.9 |
| 77.5° | 1472.6 | 979.2 | 433.9 | 304.6 | 248.2 | 219.9 | 206.5 | 203.6 | 206.5 | 208.0 | 208.0 |
| 80° | 423.5 | 370.0 | 313.5 | 269.0 | 227.3 | 205.1 | 193.2 | 191.7 | 199.1 | 200.6 | 197.6 |
| 82.5° | 325.4 | 304.6 | 283.8 | 260.0 | 218.4 | 193.2 | 188.7 | 190.2 | 194.7 | 191.7 | 178.3 |
| 85° | 298.7 | 295.7 | 212.5 | 211.0 | 190.2 | 184.3 | 179.8 | 181.3 | 176.8 | 160.5 | 145.6 |
| 87.5° | 167.9 | 156.0 | 120.4 | 121.8 | 141.2 | 145.6 | 120.4 | 127.8 | 118.9 | 104.0 | 95.1 |
| 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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| | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2451.8 | 2451.8 | 2451.8 | 2451.8 | 2451.8 |
| 2.5° | 2475.6 | 2474.1 | 2474.1 | 2478.6 | 2472.6 |
| 5° | 2503.8 | 2502.3 | 2502.3 | 2506.8 | 2502.3 |
| 7.5° | 2490.4 | 2486.0 | 2483.0 | 2481.5 | 2481.5 |
| 10° | 2445.9 | 2441.4 | 2432.5 | 2429.5 | 2426.5 |
| 12.5° | 2399.8 | 2395.3 | 2384.9 | 2384.9 | 2382.0 |
| 15° | 2371.6 | 2365.6 | 2358.2 | 2353.7 | 2350.8 |
| 17.5° | 2356.7 | 2347.8 | 2338.9 | 2334.4 | 2331.4 |
| 20° | 2350.8 | 2338.9 | 2328.5 | 2321.0 | 2321.0 |
| 22.5° | 2352.3 | 2337.4 | 2325.5 | 2316.6 | 2313.6 |
| 25° | 2367.1 | 2344.8 | 2330.0 | 2321.0 | 2318.1 |
| 27.5° | 2387.9 | 2361.2 | 2341.8 | 2330.0 | 2325.5 |
| 30° | 2416.1 | 2379.0 | 2352.3 | 2337.4 | 2331.4 |
| 32.5° | 2435.5 | 2383.5 | 2349.3 | 2328.5 | 2321.0 |
| 35° | 2434.0 | 2367.1 | 2325.5 | 2298.8 | 2289.8 |
| 37.5° | 2407.2 | 2328.5 | 2273.5 | 2240.8 | 2225.9 |
| 40° | 2347.8 | 2257.2 | 2199.2 | 2168.0 | 2150.2 |
| 42.5° | 2261.6 | 2163.5 | 2111.5 | 2077.4 | 2058.0 |
| 45° | 2126.4 | 2029.8 | 1965.9 | 1939.2 | 1913.9 |
| 47.5° | 1939.2 | 1841.1 | 1786.1 | 1747.5 | 1731.1 |
| 50° | 1719.2 | 1621.2 | 1563.2 | 1532.0 | 1517.1 |
| 52.5° | 1478.5 | 1384.9 | 1343.3 | 1313.6 | 1292.8 |
| 55° | 1228.9 | 1142.7 | 1124.9 | 1092.2 | 1072.9 |
| 57.5° | 994.1 | 943.6 | 927.2 | 894.5 | 878.2 |
| 60° | 777.1 | 760.8 | 743.0 | 722.2 | 713.3 |
| 62.5° | 601.8 | 586.9 | 582.5 | 569.1 | 567.6 |
| 65° | 459.2 | 460.6 | 457.7 | 454.7 | 451.7 |
| 66° | 417.6 | 416.1 | 417.6 | 414.6 | 413.1 |
| 67.5° | 355.1 | 361.1 | 365.5 | 364.1 | 364.1 |
| 70° | 288.3 | 292.7 | 298.7 | 297.2 | 297.2 |
| 72.5° | 246.7 | 254.1 | 257.1 | 255.6 | 255.6 |
| 75° | 222.9 | 230.3 | 230.3 | 227.3 | 225.9 |
| 77.5° | 208.0 | 211.0 | 208.0 | 205.1 | 202.1 |
| 80° | 193.2 | 190.2 | 185.7 | 181.3 | 178.3 |
| 82.5° | 167.9 | 160.5 | 156.0 | 148.6 | 148.6 |
| 85° | 135.2 | 129.3 | 118.9 | 111.4 | 104.0 |
| 87.5° | 87.7 | 84.7 | 77.3 | 58.0 | 46.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)