

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: P159488

Luminaire Tested: **VTS-E10-LED-E1-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159488
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-E10-LED-E1-T3-8030
Description: VENTUS LED SITE LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (210) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25812.3 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G4

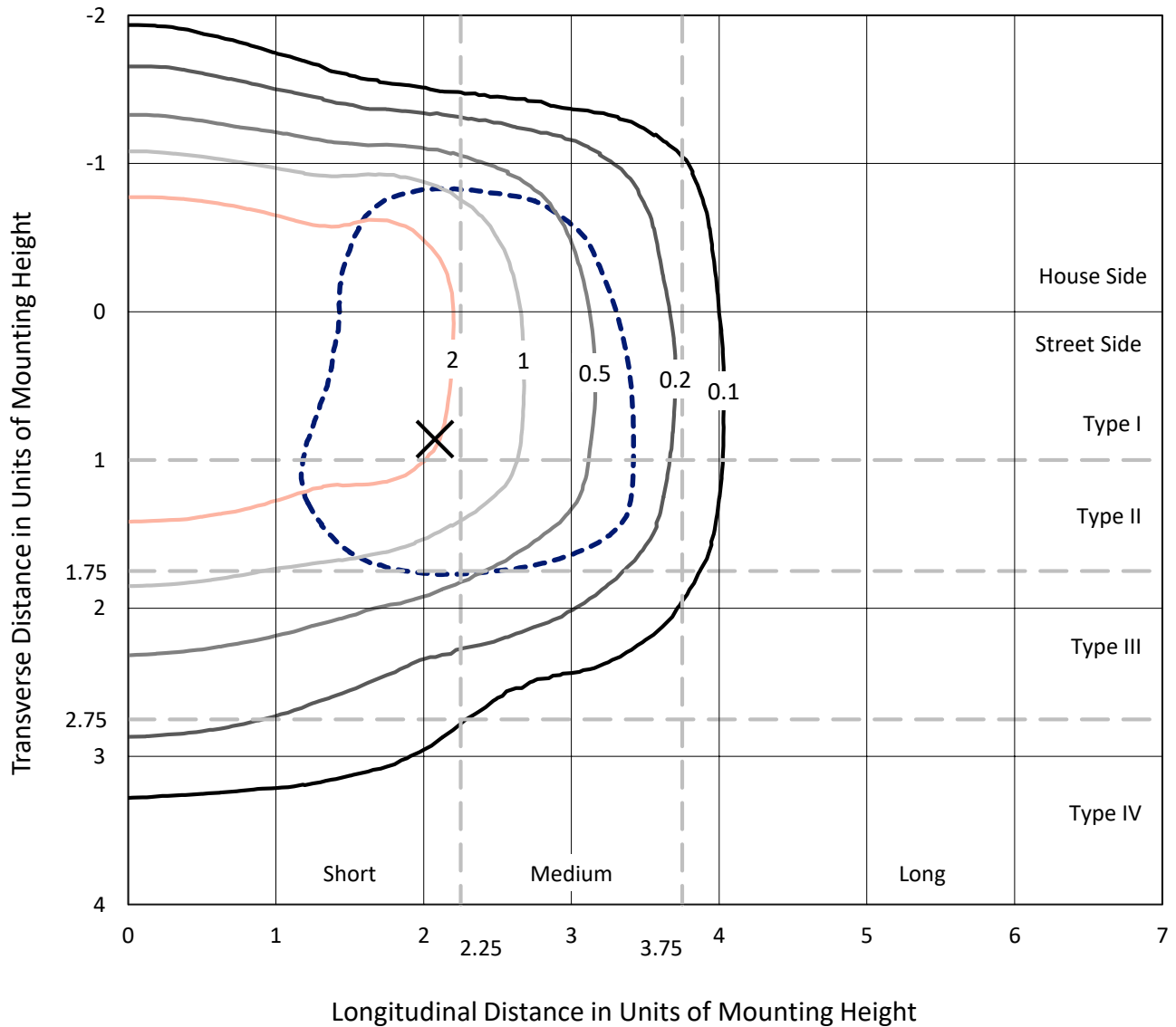
Input Watts (W): 247.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

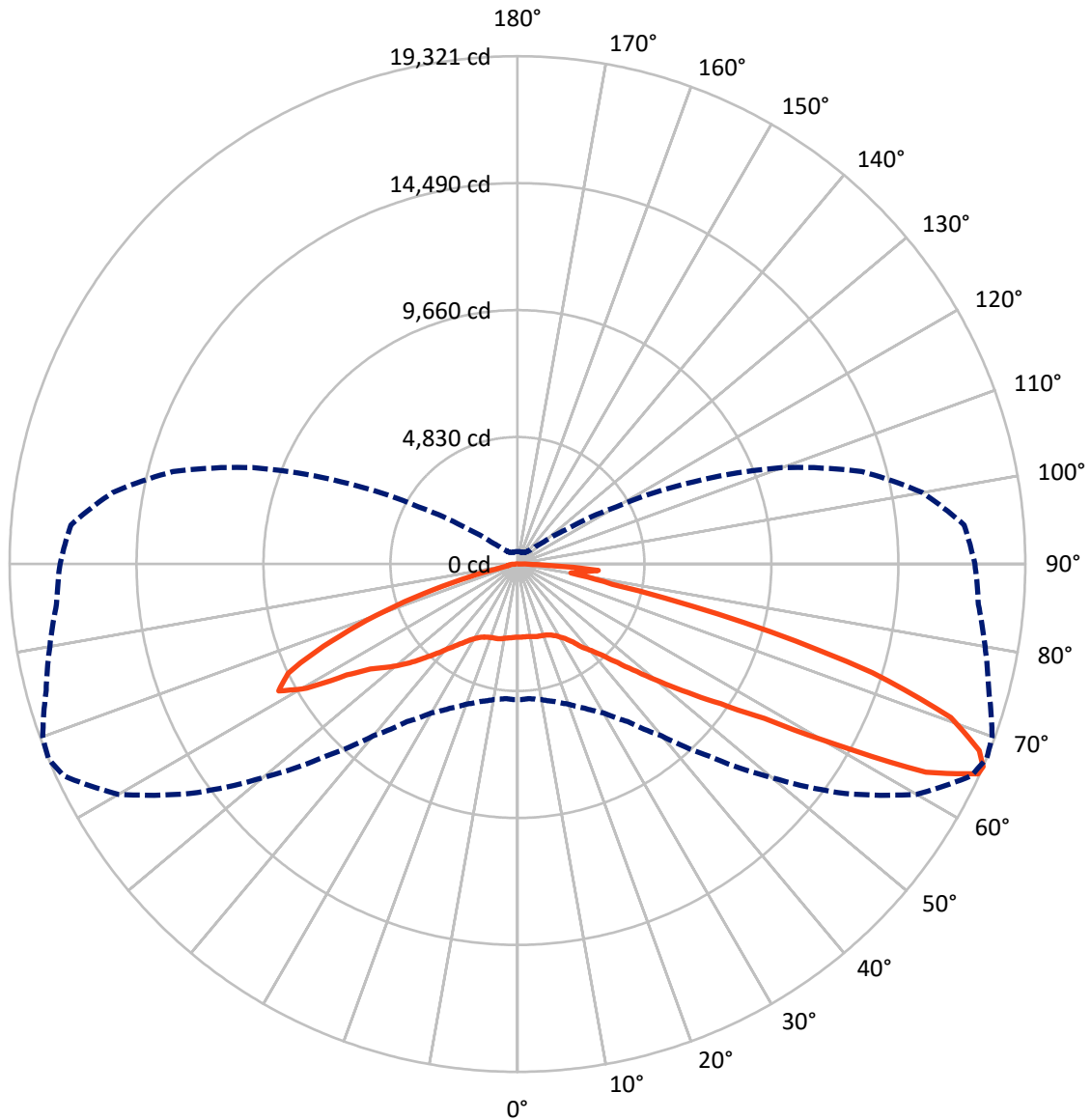


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - Semi-Cutoff

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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 | 8932.2 | 0.0 | 8932.2 |
| | % Fixture | 34.6 | 0.0 | 34.6 |
| Street Side | Lumens | 16880.1 | 0.0 | 16880.1 |
| | % Fixture | 65.4 | 0.0 | 65.4 |
| Total | Lumens | 25812.3 | 0.0 | 25812.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 267.3 | 1.0 |
| 10°-20° | 791.4 | 3.1 |
| 20°-30° | 1360.4 | 5.3 |
| 30°-40° | 2198.7 | 8.5 |
| 40°-50° | 3643.8 | 14.1 |
| 50°-60° | 5718.6 | 22.2 |
| 60°-70° | 7818.4 | 30.3 |
| 70°-80° | 3438.2 | 13.3 |
| 80°-90° | 575.5 | 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° | 25812.3 | 100.0 |
| 0°-180° | 25812.3 | 100.0 |



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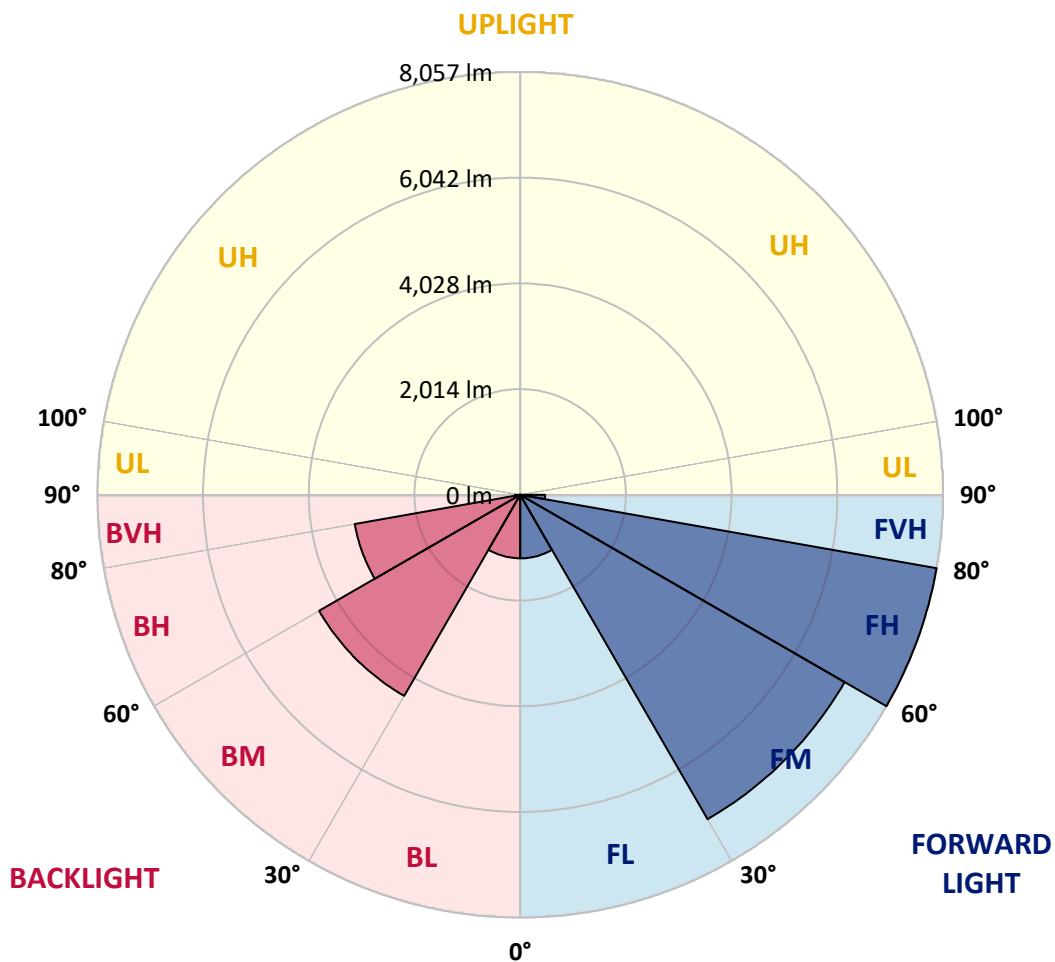
CATALOG NUMBER: VTS-E10-LED-E1-T3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1210.8 | 4.7 | | | |
| FM | (30°-60°) | 7137.9 | 27.7 | | | |
| FH | (60°-80°) | 8056.6 | 31.2 | | | G4/12000 |
| FVH | (80°-90°) | 474.8 | 1.8 | | | G3/500 |
| BL | (0°-30°) | 1208.3 | 4.7 | B3/2500 | | |
| BM | (30°-60°) | 4423.2 | 17.1 | B3/5000 | | |
| BH | (60°-80°) | 3200.0 | 12.4 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 100.7 | 0.4 | | | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 2785.2 | 2785.2 | 2785.2 | 2785.2 | 2785.2 | 2785.2 | 2785.2 | 2785.2 | 2785.2 | 2785.2 | 2785.2 |
| 2.5° | 2780.1 | 2780.1 | 2781.8 | 2780.1 | 2780.1 | 2778.4 | 2785.2 | 2785.2 | 2785.2 | 2783.5 | 2788.5 |
| 5° | 2773.4 | 2773.4 | 2775.0 | 2775.0 | 2776.7 | 2775.0 | 2780.1 | 2781.8 | 2781.8 | 2781.8 | 2786.9 |
| 7.5° | 2756.5 | 2761.5 | 2758.2 | 2759.9 | 2761.5 | 2766.6 | 2773.4 | 2776.7 | 2780.1 | 2785.2 | 2786.9 |
| 10° | 2721.0 | 2729.5 | 2727.8 | 2732.8 | 2734.5 | 2749.7 | 2754.8 | 2761.5 | 2773.4 | 2780.1 | 2785.2 |
| 12.5° | 2672.1 | 2677.1 | 2678.8 | 2685.6 | 2692.3 | 2710.9 | 2724.4 | 2736.2 | 2753.1 | 2770.0 | 2786.9 |
| 15° | 2633.3 | 2636.6 | 2636.6 | 2643.4 | 2653.5 | 2670.4 | 2687.3 | 2707.5 | 2732.8 | 2761.5 | 2788.5 |
| 17.5° | 2645.1 | 2653.5 | 2646.8 | 2645.1 | 2648.4 | 2658.6 | 2673.8 | 2690.6 | 2721.0 | 2753.1 | 2785.2 |
| 20° | 2722.7 | 2724.4 | 2721.0 | 2712.6 | 2705.8 | 2707.5 | 2707.5 | 2710.9 | 2729.5 | 2754.8 | 2780.1 |
| 22.5° | 2786.9 | 2793.6 | 2791.9 | 2793.6 | 2791.9 | 2798.7 | 2795.3 | 2788.5 | 2781.8 | 2783.5 | 2795.3 |
| 25° | 2842.6 | 2849.3 | 2849.3 | 2854.4 | 2862.8 | 2876.3 | 2886.4 | 2884.8 | 2874.6 | 2861.1 | 2856.1 |
| 27.5° | 2933.7 | 2933.7 | 2933.7 | 2938.8 | 2950.6 | 2967.5 | 2984.4 | 2994.5 | 3002.9 | 2989.4 | 2960.7 |
| 30° | 3077.2 | 3078.9 | 3073.8 | 3075.5 | 3083.9 | 3105.9 | 3126.1 | 3141.3 | 3158.2 | 3156.5 | 3119.4 |
| 32.5° | 3234.2 | 3240.9 | 3239.2 | 3246.0 | 3257.8 | 3278.1 | 3300.0 | 3323.6 | 3345.6 | 3359.1 | 3335.5 |
| 35° | 3436.7 | 3443.5 | 3445.2 | 3455.3 | 3468.8 | 3499.2 | 3529.6 | 3560.0 | 3583.6 | 3593.7 | 3588.6 |
| 37.5° | 3769.3 | 3771.0 | 3764.2 | 3749.0 | 3754.1 | 3777.7 | 3813.2 | 3862.1 | 3877.3 | 3887.4 | 3911.1 |
| 40° | 4267.2 | 4262.2 | 4235.1 | 4221.6 | 4213.2 | 4223.3 | 4216.6 | 4255.4 | 4290.8 | 4292.5 | 4290.8 |
| 42.5° | 4871.5 | 4856.3 | 4831.0 | 4827.6 | 4824.3 | 4820.9 | 4802.3 | 4804.0 | 4836.1 | 4844.5 | 4834.4 |
| 45° | 5472.4 | 5453.9 | 5435.3 | 5452.2 | 5431.9 | 5484.3 | 5499.4 | 5540.0 | 5545.0 | 5561.9 | 5536.6 |
| 47.5° | 5965.3 | 5967.0 | 5967.0 | 5990.6 | 6031.2 | 6130.8 | 6220.2 | 6297.9 | 6326.6 | 6367.1 | 6372.1 |
| 50° | 6338.4 | 6348.5 | 6380.6 | 6456.5 | 6542.6 | 6709.7 | 6860.0 | 7000.1 | 7126.7 | 7173.9 | 7298.8 |
| 52.5° | 6556.1 | 6583.1 | 6650.6 | 6777.2 | 6930.9 | 7146.9 | 7383.2 | 7621.2 | 7840.7 | 8026.4 | 8174.9 |
| 55° | 6517.3 | 6537.6 | 6655.7 | 6853.2 | 7092.9 | 7383.2 | 7714.1 | 8058.4 | 8401.1 | 8715.1 | 8958.1 |
| 57.5° | 6267.5 | 6281.0 | 6399.1 | 6622.0 | 6920.7 | 7310.6 | 7778.2 | 8289.7 | 8770.8 | 9277.1 | 9692.4 |
| 60° | 5940.0 | 5960.3 | 6070.0 | 6245.5 | 6557.8 | 6973.1 | 7514.9 | 8208.7 | 8976.7 | 9773.4 | 10549.9 |
| 62.5° | 5730.7 | 5725.6 | 5821.8 | 5978.8 | 6213.5 | 6589.9 | 7111.5 | 7933.5 | 8996.9 | 10344.0 | 11878.3 |
| 65° | 5383.0 | 5367.8 | 5467.4 | 5646.3 | 5901.2 | 6265.8 | 6760.4 | 7550.3 | 8784.3 | 10560.0 | 12735.8 |
| 66° | 5166.9 | 5136.5 | 5236.1 | 5416.7 | 5671.6 | 6059.9 | 6534.2 | 7314.0 | 8526.0 | 10349.0 | 12644.7 |
| 67.5° | 4788.8 | 4773.6 | 4820.9 | 4962.7 | 5151.7 | 5516.3 | 6010.9 | 6795.8 | 7914.9 | 9714.3 | 11976.2 |
| 70° | 3892.5 | 3858.7 | 3895.9 | 3960.0 | 4032.6 | 4122.1 | 4425.9 | 5048.8 | 5995.7 | 7739.4 | 9648.5 |
| 72.5° | 2651.8 | 2634.9 | 2704.1 | 2802.0 | 2996.2 | 3087.3 | 3207.2 | 3308.4 | 3642.7 | 4878.3 | 6730.0 |
| 75° | 2017.1 | 2027.3 | 2115.0 | 2277.1 | 2526.9 | 2797.0 | 3060.3 | 3156.5 | 3045.1 | 2948.9 | 3819.9 |
| 77.5° | 1130.9 | 1190.0 | 1296.4 | 1502.3 | 1767.3 | 2148.8 | 2607.9 | 3114.3 | 3367.5 | 3305.1 | 3090.7 |
| 80° | 465.9 | 457.4 | 509.8 | 622.9 | 714.0 | 1026.3 | 1569.8 | 2204.5 | 2916.8 | 3367.5 | 3296.6 |
| 82.5° | 130.0 | 133.4 | 172.2 | 221.1 | 285.3 | 362.9 | 567.2 | 911.5 | 1485.4 | 2310.8 | 3024.9 |
| 85° | 40.5 | 40.5 | 55.7 | 82.7 | 97.9 | 113.1 | 143.5 | 236.3 | 403.4 | 805.2 | 1632.3 |
| 87.5° | 8.4 | 8.4 | 11.8 | 23.6 | 25.3 | 25.3 | 32.1 | 43.9 | 38.8 | 35.4 | 158.7 |
| 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-E10-LED-E1-T3-8030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2785.2 | 2785.2 | 2785.2 | 2785.2 | 2785.2 | 2785.2 | 2785.2 | 2785.2 | 2785.2 | 2785.2 | 2785.2 |
| 2.5° | 2783.5 | 2780.1 | 2781.8 | 2783.5 | 2781.8 | 2781.8 | 2780.1 | 2778.4 | 2780.1 | 2780.1 | 2785.2 |
| 5° | 2781.8 | 2780.1 | 2781.8 | 2781.8 | 2781.8 | 2783.5 | 2783.5 | 2783.5 | 2788.5 | 2788.5 | 2797.0 |
| 7.5° | 2785.2 | 2785.2 | 2788.5 | 2788.5 | 2788.5 | 2788.5 | 2790.2 | 2793.6 | 2802.0 | 2800.4 | 2815.6 |
| 10° | 2791.9 | 2795.3 | 2803.7 | 2805.4 | 2805.4 | 2810.5 | 2813.9 | 2820.6 | 2829.1 | 2832.4 | 2845.9 |
| 12.5° | 2800.4 | 2817.2 | 2832.4 | 2835.8 | 2840.9 | 2849.3 | 2854.4 | 2857.8 | 2872.9 | 2878.0 | 2894.9 |
| 15° | 2810.5 | 2834.1 | 2852.7 | 2859.4 | 2866.2 | 2876.3 | 2883.1 | 2888.1 | 2901.6 | 2908.4 | 2928.6 |
| 17.5° | 2812.2 | 2839.2 | 2861.1 | 2871.3 | 2879.7 | 2891.5 | 2901.6 | 2911.8 | 2927.0 | 2937.1 | 2957.3 |
| 20° | 2810.5 | 2845.9 | 2879.7 | 2893.2 | 2901.6 | 2923.6 | 2938.8 | 2952.3 | 2970.8 | 2981.0 | 3001.2 |
| 22.5° | 2829.1 | 2869.6 | 2915.1 | 2932.0 | 2945.5 | 2975.9 | 2996.2 | 3018.1 | 3041.7 | 3048.5 | 3063.7 |
| 25° | 2872.9 | 2915.1 | 2972.5 | 2996.2 | 3019.8 | 3060.3 | 3089.0 | 3121.1 | 3144.7 | 3148.1 | 3153.2 |
| 27.5° | 2947.2 | 2986.0 | 3055.2 | 3090.7 | 3129.5 | 3186.9 | 3229.1 | 3261.2 | 3294.9 | 3294.9 | 3291.6 |
| 30° | 3097.4 | 3105.9 | 3178.5 | 3224.0 | 3281.4 | 3365.8 | 3428.3 | 3463.7 | 3489.1 | 3489.1 | 3460.4 |
| 32.5° | 3291.6 | 3281.4 | 3347.3 | 3396.2 | 3475.6 | 3593.7 | 3678.1 | 3705.1 | 3732.1 | 3723.7 | 3674.7 |
| 35° | 3571.8 | 3543.1 | 3580.2 | 3654.5 | 3743.9 | 3906.0 | 3993.8 | 4054.5 | 4071.4 | 4047.8 | 3970.1 |
| 37.5° | 3924.6 | 3921.2 | 3939.7 | 4022.5 | 4122.1 | 4331.4 | 4420.8 | 4459.6 | 4446.1 | 4403.9 | 4267.2 |
| 40° | 4297.6 | 4287.5 | 4275.7 | 4331.4 | 4442.8 | 4694.3 | 4852.9 | 4873.2 | 4854.6 | 4792.2 | 4620.0 |
| 42.5° | 4795.6 | 4795.6 | 4739.9 | 4755.0 | 4847.9 | 5129.8 | 5317.1 | 5381.3 | 5383.0 | 5291.8 | 5062.3 |
| 45° | 5480.9 | 5474.1 | 5376.2 | 5352.6 | 5423.5 | 5700.3 | 5941.7 | 5977.1 | 5977.1 | 5857.3 | 5605.8 |
| 47.5° | 6304.6 | 6296.2 | 6200.0 | 6117.2 | 6130.8 | 6429.5 | 6630.4 | 6684.4 | 6637.1 | 6547.7 | 6248.9 |
| 50° | 7233.0 | 7217.8 | 7119.9 | 7042.3 | 7008.5 | 7310.6 | 7481.1 | 7506.5 | 7437.2 | 7330.9 | 7006.8 |
| 52.5° | 8174.9 | 8220.5 | 8163.1 | 8120.9 | 8132.7 | 8328.5 | 8504.1 | 8384.2 | 8348.8 | 8234.0 | 7908.2 |
| 55° | 9155.6 | 9295.7 | 9422.3 | 9385.2 | 9429.1 | 9619.8 | 9653.6 | 9494.9 | 9430.8 | 9348.0 | 8985.1 |
| 57.5° | 10143.1 | 10551.6 | 10966.8 | 11083.3 | 11191.3 | 11464.8 | 11425.9 | 11166.0 | 11215.0 | 11338.2 | 10929.7 |
| 60° | 11522.2 | 12702.1 | 13755.4 | 13949.5 | 14285.4 | 14518.3 | 14570.7 | 14520.0 | 14747.9 | 14683.8 | 14322.5 |
| 62.5° | 13640.6 | 15607.1 | 17072.2 | 17436.9 | 17774.4 | 17762.6 | 17585.4 | 17403.1 | 17627.6 | 17627.6 | 16684.0 |
| 65° | 15153.0 | 17384.5 | 18952.7 | 19254.8 | 19241.3 | 18834.5 | 18415.9 | 18051.3 | 18019.2 | 17769.4 | 16390.3 |
| 66° | 15223.9 | 17521.3 | 19057.3 | 19320.6 | 19219.4 | 18564.4 | 18063.1 | 17600.6 | 17403.1 | 17055.4 | 15642.5 |
| 67.5° | 14585.9 | 17134.7 | 18716.3 | 18945.9 | 18679.2 | 17740.7 | 17050.3 | 16430.8 | 16143.9 | 15558.1 | 14228.0 |
| 70° | 11964.4 | 14726.0 | 17026.7 | 17495.9 | 17193.8 | 16005.4 | 15060.2 | 14222.9 | 13674.3 | 12828.7 | 11869.9 |
| 72.5° | 8733.6 | 10872.3 | 13363.8 | 14126.7 | 14079.5 | 12985.6 | 12224.4 | 11458.0 | 10737.3 | 9967.5 | 9267.0 |
| 75° | 5676.7 | 7072.6 | 8461.9 | 8907.5 | 8693.1 | 8060.1 | 7514.9 | 7067.6 | 6383.9 | 5848.9 | 5718.9 |
| 77.5° | 3240.9 | 3960.0 | 3745.6 | 3689.9 | 3421.5 | 2761.5 | 1836.5 | 1287.9 | 1163.0 | 1451.7 | 1591.8 |
| 80° | 3083.9 | 2795.3 | 2288.9 | 2064.4 | 1897.3 | 1293.0 | 678.6 | 477.7 | 418.6 | 428.7 | 460.8 |
| 82.5° | 3477.2 | 3624.1 | 2964.1 | 2476.3 | 2155.6 | 1573.2 | 859.2 | 400.1 | 292.0 | 346.0 | 388.2 |
| 85° | 2606.2 | 3669.7 | 3637.6 | 3082.3 | 2528.6 | 1812.9 | 1016.2 | 305.5 | 175.6 | 243.1 | 317.3 |
| 87.5° | 528.3 | 869.3 | 837.2 | 736.0 | 626.2 | 437.2 | 170.5 | 96.2 | 87.8 | 119.8 | 182.3 |
| 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-E10-LED-E1-T3-8030

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2785.2 | 2785.2 | 2785.2 | 2785.2 | 2785.2 | 2785.2 | 2785.2 | 2785.2 | 2785.2 | 2785.2 | 2785.2 |
| 2.5° | 2788.5 | 2788.5 | 2791.9 | 2797.0 | 2798.7 | 2798.7 | 2802.0 | 2798.7 | 2805.4 | 2807.1 | 2808.8 |
| 5° | 2803.7 | 2808.8 | 2812.2 | 2820.6 | 2825.7 | 2829.1 | 2834.1 | 2830.7 | 2837.5 | 2839.2 | 2842.6 |
| 7.5° | 2820.6 | 2829.1 | 2835.8 | 2839.2 | 2845.9 | 2845.9 | 2847.6 | 2844.2 | 2842.6 | 2837.5 | 2835.8 |
| 10° | 2851.0 | 2856.1 | 2864.5 | 2861.1 | 2857.8 | 2845.9 | 2835.8 | 2820.6 | 2812.2 | 2797.0 | 2788.5 |
| 12.5° | 2900.0 | 2903.3 | 2903.3 | 2888.1 | 2866.2 | 2839.2 | 2813.9 | 2788.5 | 2768.3 | 2751.4 | 2741.3 |
| 15° | 2933.7 | 2940.5 | 2932.0 | 2910.1 | 2878.0 | 2840.9 | 2807.1 | 2773.4 | 2746.3 | 2724.4 | 2710.9 |
| 17.5° | 2959.0 | 2957.3 | 2942.2 | 2911.8 | 2881.4 | 2849.3 | 2818.9 | 2783.5 | 2749.7 | 2717.7 | 2697.4 |
| 20° | 2997.9 | 2981.0 | 2954.0 | 2921.9 | 2889.8 | 2862.8 | 2839.2 | 2805.4 | 2770.0 | 2726.1 | 2695.7 |
| 22.5° | 3050.2 | 3019.8 | 2981.0 | 2947.2 | 2916.8 | 2891.5 | 2864.5 | 2835.8 | 2798.7 | 2749.7 | 2707.5 |
| 25° | 3124.5 | 3072.1 | 3028.2 | 2994.5 | 2967.5 | 2938.8 | 2908.4 | 2871.3 | 2834.1 | 2783.5 | 2732.8 |
| 27.5° | 3237.5 | 3159.9 | 3104.2 | 3073.8 | 3048.5 | 3009.7 | 2970.8 | 2927.0 | 2879.7 | 2827.4 | 2770.0 |
| 30° | 3374.3 | 3281.4 | 3217.3 | 3190.3 | 3159.9 | 3116.0 | 3073.8 | 3013.0 | 2947.2 | 2884.8 | 2813.9 |
| 32.5° | 3534.6 | 3440.1 | 3376.0 | 3355.7 | 3306.8 | 3256.1 | 3197.0 | 3116.0 | 3029.9 | 2937.1 | 2852.7 |
| 35° | 3777.7 | 3657.9 | 3598.8 | 3551.5 | 3484.0 | 3423.2 | 3323.6 | 3217.3 | 3094.1 | 2970.8 | 2866.2 |
| 37.5° | 4027.5 | 3906.0 | 3845.2 | 3779.4 | 3691.6 | 3580.2 | 3446.9 | 3294.9 | 3131.2 | 2979.3 | 2851.0 |
| 40° | 4361.7 | 4230.1 | 4152.4 | 4051.2 | 3909.4 | 3735.5 | 3538.0 | 3330.4 | 3131.2 | 2942.2 | 2786.9 |
| 42.5° | 4751.7 | 4630.1 | 4510.3 | 4343.2 | 4115.3 | 3862.1 | 3585.3 | 3318.6 | 3077.2 | 2859.4 | 2695.7 |
| 45° | 5291.8 | 5084.2 | 4893.5 | 4625.1 | 4292.5 | 3936.4 | 3590.3 | 3262.9 | 2984.4 | 2743.0 | 2560.7 |
| 47.5° | 5899.5 | 5631.1 | 5293.5 | 4873.2 | 4419.1 | 3965.1 | 3541.4 | 3158.2 | 2837.5 | 2575.9 | 2376.7 |
| 50° | 6600.0 | 6188.1 | 5669.9 | 5070.7 | 4483.3 | 3926.2 | 3424.9 | 2982.7 | 2634.9 | 2334.5 | 2121.8 |
| 52.5° | 7401.8 | 6773.9 | 6010.9 | 5210.8 | 4473.2 | 3808.1 | 3232.5 | 2751.4 | 2363.2 | 2044.1 | 1834.8 |
| 55° | 8291.4 | 7411.9 | 6336.7 | 5300.3 | 4382.0 | 3578.5 | 2930.3 | 2425.6 | 2025.6 | 1711.6 | 1527.6 |
| 57.5° | 9859.5 | 8531.1 | 6957.9 | 5420.1 | 4191.3 | 3230.8 | 2547.2 | 2013.8 | 1652.5 | 1385.8 | 1210.3 |
| 60° | 12773.0 | 10487.4 | 8134.4 | 5702.0 | 3904.3 | 2795.3 | 2064.4 | 1580.0 | 1277.8 | 1083.7 | 953.7 |
| 62.5° | 14575.7 | 11864.8 | 8708.3 | 5661.5 | 3438.4 | 2199.4 | 1532.7 | 1171.5 | 933.5 | 805.2 | 724.1 |
| 65° | 14148.7 | 11324.7 | 8007.8 | 4863.1 | 2675.5 | 1559.7 | 1014.5 | 766.3 | 641.4 | 575.6 | 536.8 |
| 66° | 13568.0 | 10720.4 | 7415.3 | 4355.0 | 2331.1 | 1303.1 | 837.2 | 643.1 | 552.0 | 503.0 | 482.8 |
| 67.5° | 12351.0 | 9616.4 | 6395.8 | 3487.4 | 1747.1 | 970.6 | 617.8 | 504.7 | 449.0 | 423.7 | 410.2 |
| 70° | 10337.2 | 7747.8 | 4523.8 | 2059.3 | 947.0 | 526.7 | 395.0 | 351.1 | 337.6 | 329.2 | 324.1 |
| 72.5° | 7992.6 | 5609.2 | 2643.4 | 1012.8 | 477.7 | 341.0 | 300.5 | 281.9 | 276.8 | 276.8 | 278.5 |
| 75° | 5035.2 | 3224.0 | 1183.3 | 487.8 | 324.1 | 275.1 | 256.6 | 248.1 | 249.8 | 251.5 | 249.8 |
| 77.5° | 1672.8 | 1112.4 | 492.9 | 346.0 | 281.9 | 249.8 | 234.6 | 231.3 | 234.6 | 236.3 | 236.3 |
| 80° | 481.1 | 420.3 | 356.2 | 305.5 | 258.3 | 232.9 | 219.4 | 217.7 | 226.2 | 227.9 | 224.5 |
| 82.5° | 369.7 | 346.0 | 322.4 | 295.4 | 248.1 | 219.4 | 214.4 | 216.1 | 221.1 | 217.7 | 202.6 |
| 85° | 339.3 | 335.9 | 241.4 | 239.7 | 216.1 | 209.3 | 204.2 | 205.9 | 200.9 | 182.3 | 165.4 |
| 87.5° | 190.7 | 177.2 | 136.7 | 138.4 | 160.4 | 165.4 | 136.7 | 145.2 | 135.0 | 118.2 | 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 |



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| 2.5° | 2812.2 | 2810.5 | 2810.5 | 2815.6 | 2808.8 |
| 5° | 2844.2 | 2842.6 | 2842.6 | 2847.6 | 2842.6 |
| 7.5° | 2829.1 | 2824.0 | 2820.6 | 2818.9 | 2818.9 |
| 10° | 2778.4 | 2773.4 | 2763.2 | 2759.9 | 2756.5 |
| 12.5° | 2726.1 | 2721.0 | 2709.2 | 2709.2 | 2705.8 |
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| 20° | 2670.4 | 2656.9 | 2645.1 | 2636.6 | 2636.6 |
| 22.5° | 2672.1 | 2655.2 | 2641.7 | 2631.6 | 2628.2 |
| 25° | 2689.0 | 2663.6 | 2646.8 | 2636.6 | 2633.3 |
| 27.5° | 2712.6 | 2682.2 | 2660.3 | 2646.8 | 2641.7 |
| 30° | 2744.7 | 2702.5 | 2672.1 | 2655.2 | 2648.4 |
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| 35° | 2764.9 | 2689.0 | 2641.7 | 2611.3 | 2601.2 |
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| 55° | 1396.0 | 1298.1 | 1277.8 | 1240.7 | 1218.7 |
| 57.5° | 1129.3 | 1071.9 | 1053.3 | 1016.2 | 997.6 |
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| 62.5° | 683.6 | 666.8 | 661.7 | 646.5 | 644.8 |
| 65° | 521.6 | 523.3 | 519.9 | 516.5 | 513.1 |
| 66° | 474.3 | 472.6 | 474.3 | 470.9 | 469.3 |
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| 70° | 327.5 | 332.5 | 339.3 | 337.6 | 337.6 |
| 72.5° | 280.2 | 288.6 | 292.0 | 290.3 | 290.3 |
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| 77.5° | 236.3 | 239.7 | 236.3 | 232.9 | 229.6 |
| 80° | 219.4 | 216.1 | 211.0 | 205.9 | 202.6 |
| 82.5° | 190.7 | 182.3 | 177.2 | 168.8 | 168.8 |
| 85° | 153.6 | 146.9 | 135.0 | 126.6 | 118.2 |
| 87.5° | 99.6 | 96.2 | 87.8 | 65.8 | 52.3 |
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