

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: P164917

Luminaire Tested: **VTS-E03-LED-E1-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P164917
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-E03-LED-E1-SL2-HSS
Description: VENTUS LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5435 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

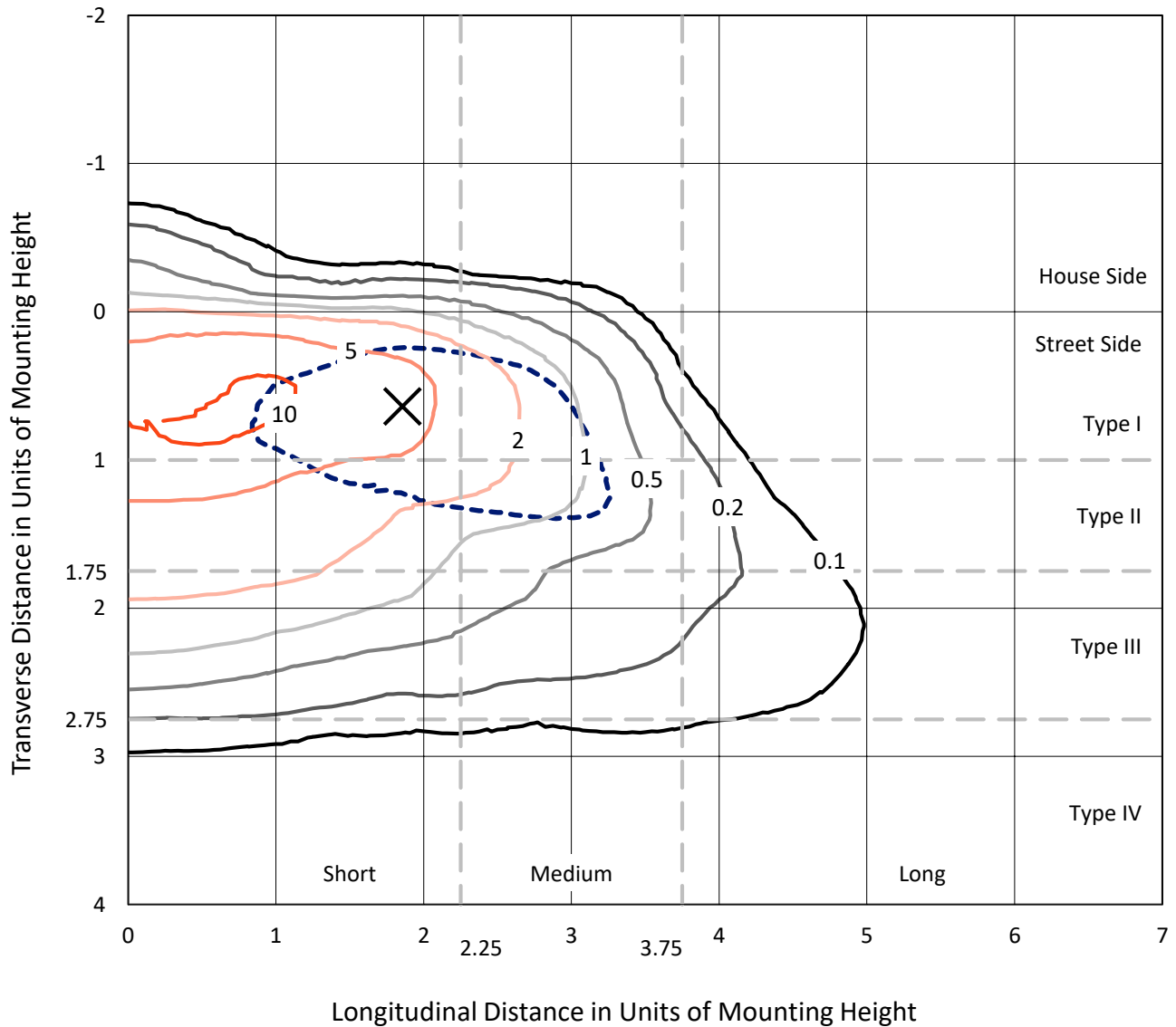
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

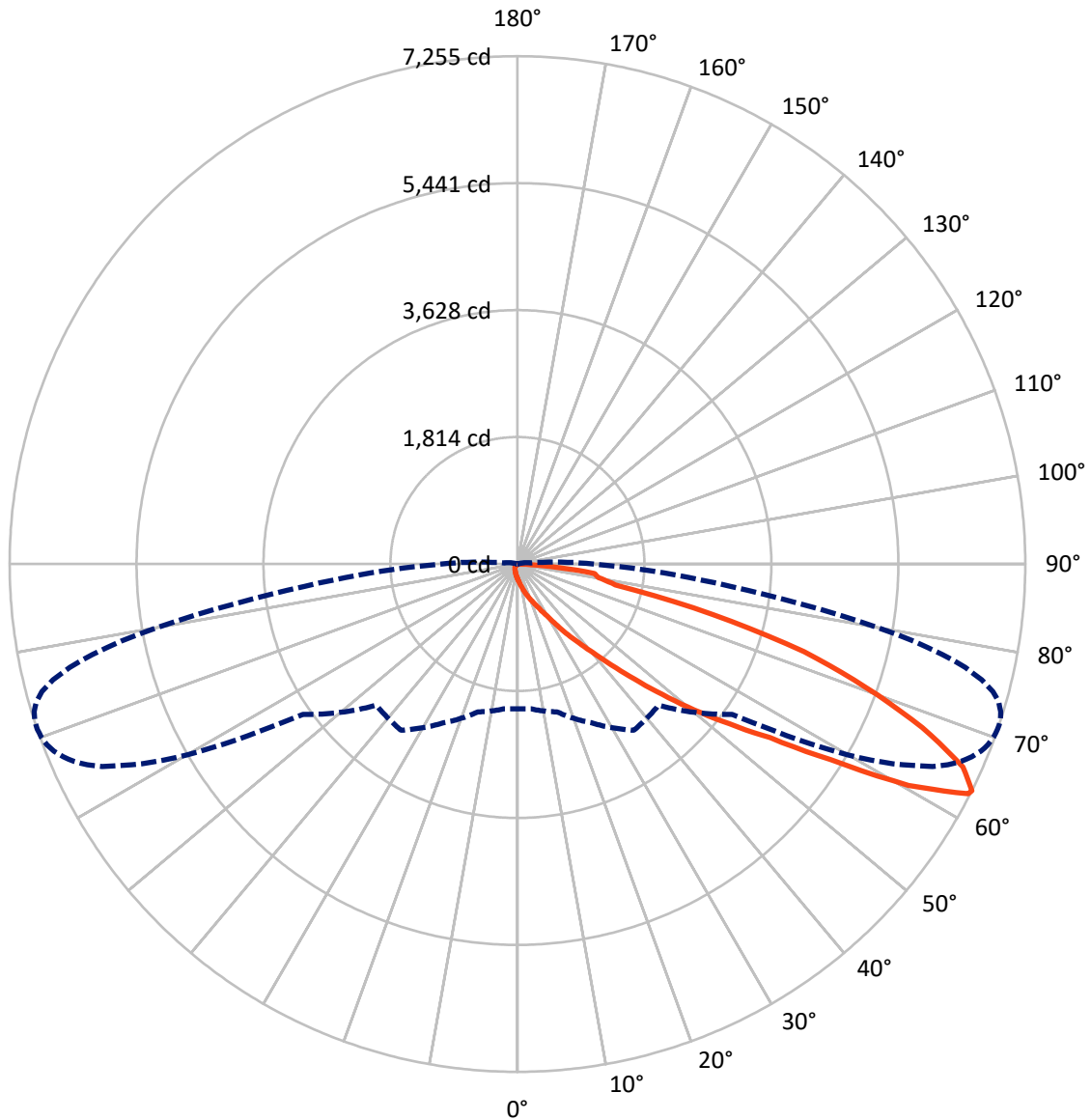


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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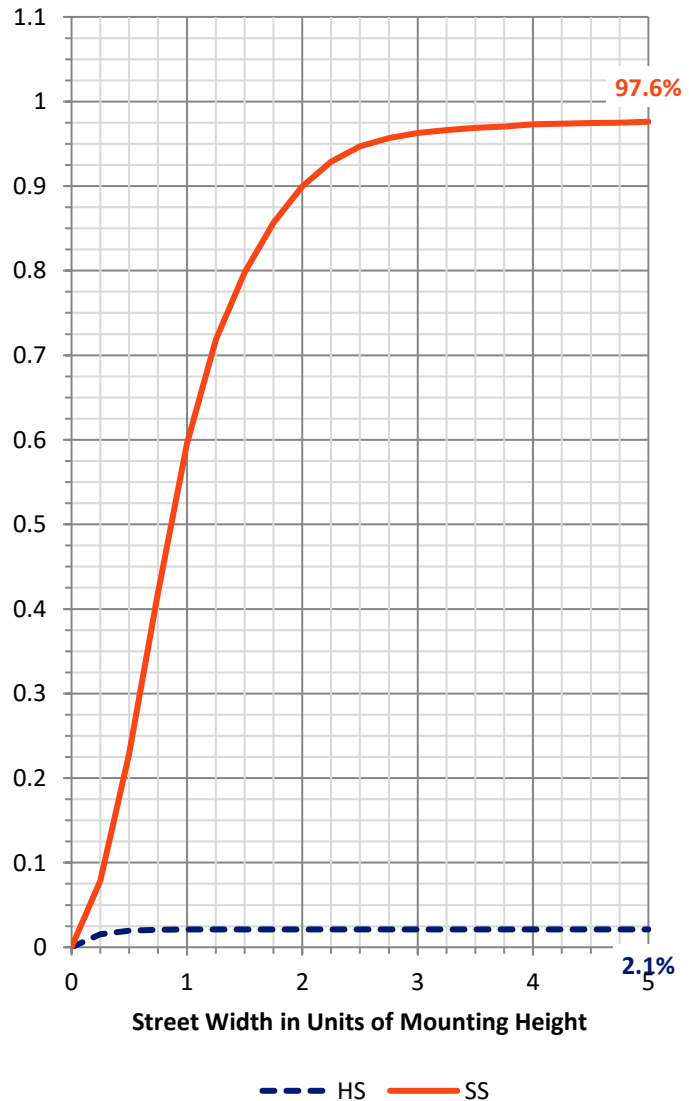
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 115.4 | 0.0 | 115.4 |
| | % Fixture | 2.1 | 0.0 | 2.1 |
| Street Side | Lumens | 5319.6 | 0.0 | 5319.6 |
| | % Fixture | 97.9 | 0.0 | 97.9 |
| Total | Lumens | 5435.0 | 0.0 | 5435.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 23.0 | 0.4 |
| 10°-20° | 89.4 | 1.6 |
| 20°-30° | 181.5 | 3.3 |
| 30°-40° | 443.5 | 8.2 |
| 40°-50° | 991.8 | 18.2 |
| 50°-60° | 1394.6 | 25.7 |
| 60°-70° | 1639.9 | 30.2 |
| 70°-80° | 592.2 | 10.9 |
| 80°-90° | 79.2 | 1.5 |
| 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° | 5435.0 | 100.0 |
| 0°-180° | 5435.0 | 100.0 |



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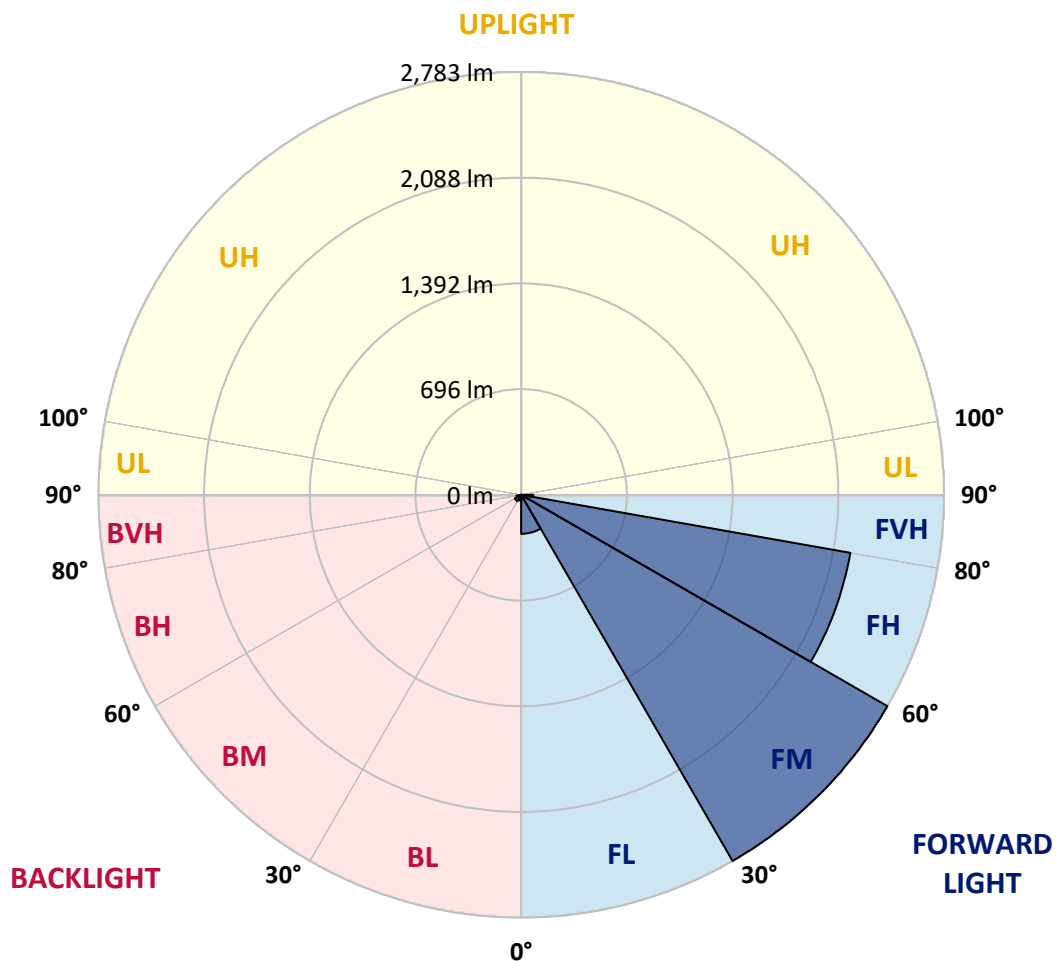
CATALOG NUMBER: VTS-E03-LED-E1-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 256.8 | 4.7 | | | |
| FM (30°-60°) | 2783.3 | 51.2 | | | |
| FH (60°-80°) | 2200.4 | 40.5 | | | G2/5000 |
| FVH (80°-90°) | 79.0 | 1.5 | | | G1/100 |
| BL (0°-30°) | 37.1 | 0.7 | B0/110 | | |
| BM (30°-60°) | 46.5 | 0.9 | B0/220 | | |
| BH (60°-80°) | 31.6 | 0.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 |
| 2.5° | 272.7 | 275.6 | 273.7 | 268.7 | 262.8 | 254.9 | 248.0 | 248.0 | 247.0 | 244.0 | 245.0 |
| 5° | 357.7 | 358.7 | 354.7 | 342.8 | 332.0 | 315.2 | 296.4 | 294.4 | 292.4 | 289.5 | 288.5 |
| 7.5° | 440.7 | 444.6 | 440.7 | 427.8 | 406.1 | 380.4 | 350.8 | 347.8 | 341.9 | 341.9 | 337.9 |
| 10° | 525.7 | 525.7 | 521.7 | 506.9 | 487.1 | 450.5 | 413.0 | 408.1 | 401.2 | 399.2 | 393.2 |
| 12.5° | 585.9 | 585.9 | 583.9 | 576.1 | 560.2 | 527.6 | 482.2 | 477.2 | 468.4 | 465.4 | 458.5 |
| 15° | 609.6 | 609.6 | 610.6 | 617.5 | 618.5 | 603.7 | 556.3 | 552.3 | 543.4 | 535.5 | 532.6 |
| 17.5° | 624.4 | 623.5 | 623.5 | 633.4 | 651.1 | 661.0 | 630.4 | 626.4 | 616.6 | 612.6 | 602.7 |
| 20° | 657.1 | 655.1 | 649.1 | 649.1 | 665.9 | 700.5 | 700.5 | 699.5 | 688.7 | 685.7 | 680.8 |
| 22.5° | 705.5 | 703.5 | 685.7 | 670.9 | 678.8 | 722.3 | 762.8 | 760.8 | 756.8 | 752.9 | 749.9 |
| 25° | 784.5 | 777.6 | 746.9 | 703.5 | 696.6 | 743.0 | 810.2 | 815.2 | 818.1 | 818.1 | 820.1 |
| 27.5° | 904.1 | 895.2 | 840.8 | 759.8 | 729.2 | 776.6 | 862.6 | 872.5 | 881.3 | 883.3 | 892.2 |
| 30° | 1070.0 | 1054.3 | 976.2 | 857.6 | 787.5 | 826.0 | 939.7 | 950.5 | 963.4 | 967.3 | 981.1 |
| 32.5° | 1342.7 | 1333.9 | 1258.8 | 1080.9 | 930.7 | 922.9 | 1047.4 | 1061.2 | 1078.0 | 1084.9 | 1101.7 |
| 35° | 1757.8 | 1759.7 | 1698.5 | 1538.4 | 1330.9 | 1222.2 | 1240.0 | 1251.8 | 1257.8 | 1278.5 | 1287.4 |
| 37.5° | 2039.3 | 2044.3 | 2058.1 | 1994.9 | 1846.7 | 1736.0 | 1596.7 | 1609.6 | 1578.9 | 1581.8 | 1582.9 |
| 40° | 2193.5 | 2209.3 | 2290.3 | 2351.6 | 2339.7 | 2275.5 | 2163.8 | 2170.7 | 2113.4 | 2100.6 | 2038.3 |
| 42.5° | 2296.2 | 2317.0 | 2446.4 | 2636.1 | 2732.9 | 2791.3 | 2765.6 | 2762.6 | 2718.1 | 2701.3 | 2648.9 |
| 45° | 2360.5 | 2379.2 | 2542.3 | 2821.9 | 3045.2 | 3215.1 | 3285.2 | 3293.2 | 3255.6 | 3238.8 | 3195.4 |
| 47.5° | 2357.5 | 2379.2 | 2554.1 | 2891.0 | 3220.1 | 3491.8 | 3689.4 | 3699.2 | 3722.0 | 3707.2 | 3710.1 |
| 50° | 2227.1 | 2247.8 | 2423.7 | 2773.4 | 3168.7 | 3618.2 | 3979.9 | 4011.5 | 4048.0 | 4072.7 | 4084.6 |
| 52.5° | 2069.0 | 2083.8 | 2239.9 | 2571.9 | 2949.3 | 3565.9 | 4151.8 | 4206.1 | 4260.5 | 4306.9 | 4339.5 |
| 55° | 2010.7 | 2027.5 | 2150.0 | 2425.7 | 2773.4 | 3346.5 | 4231.8 | 4311.8 | 4388.9 | 4465.0 | 4527.2 |
| 57.5° | 2041.3 | 2057.1 | 2145.1 | 2356.5 | 2668.7 | 3115.3 | 4254.5 | 4379.0 | 4505.5 | 4629.0 | 4751.5 |
| 60° | 2153.9 | 2170.7 | 2245.9 | 2420.7 | 2641.1 | 2981.9 | 4165.6 | 4372.1 | 4582.6 | 4798.0 | 5000.5 |
| 62.5° | 2109.5 | 2116.4 | 2227.1 | 2533.4 | 2838.7 | 2868.3 | 3842.5 | 4131.1 | 4452.2 | 4784.2 | 5111.2 |
| 63° | 2067.0 | 2074.9 | 2187.5 | 2502.7 | 2899.0 | 2851.5 | 3742.7 | 4047.1 | 4385.9 | 4743.6 | 5099.3 |
| 65° | 1874.3 | 1875.3 | 1961.3 | 2210.3 | 2831.8 | 2881.1 | 3298.1 | 3588.6 | 3977.9 | 4406.7 | 4856.3 |
| 67.5° | 1399.1 | 1392.2 | 1475.2 | 1664.9 | 2223.1 | 2882.2 | 2830.7 | 2993.8 | 3264.5 | 3644.9 | 4048.0 |
| 70° | 496.0 | 485.2 | 619.5 | 882.3 | 1385.2 | 2357.5 | 2432.6 | 2443.4 | 2518.6 | 2724.1 | 2977.0 |
| 72.5° | 161.0 | 164.0 | 197.6 | 323.1 | 638.3 | 1586.8 | 2202.4 | 2168.8 | 2149.0 | 2148.0 | 2181.6 |
| 75° | 64.2 | 65.2 | 79.0 | 143.3 | 286.6 | 764.8 | 1928.7 | 1947.4 | 1954.4 | 1964.2 | 1975.1 |
| 77.5° | 30.6 | 33.6 | 44.5 | 80.0 | 142.3 | 378.4 | 1380.3 | 1539.4 | 1630.3 | 1700.5 | 1742.9 |
| 80° | 10.9 | 12.8 | 24.7 | 49.4 | 66.2 | 173.9 | 727.2 | 877.4 | 1010.8 | 1182.7 | 1330.9 |
| 82.5° | 0.0 | 0.0 | 4.9 | 34.6 | 36.5 | 70.1 | 298.4 | 349.7 | 400.1 | 518.7 | 665.9 |
| 85° | 0.0 | 0.0 | 0.0 | 9.9 | 10.9 | 11.9 | 100.8 | 121.6 | 136.4 | 159.1 | 183.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 2.9 | 5.9 | 14.8 | 22.7 |
| 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-E03-LED-E1-SL2-HSS

CANDELA DISTRIBUTION (continued):

| | 60° | 61° | 62° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | 71° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 |
| 2.5° | 243.1 | 242.1 | 242.1 | 240.1 | 239.1 | 237.1 | 236.2 | 233.2 | 232.2 | 232.2 | 232.2 |
| 5° | 287.5 | 283.6 | 281.6 | 276.7 | 273.7 | 272.7 | 267.8 | 265.8 | 262.8 | 263.8 | 258.8 |
| 7.5° | 336.9 | 330.0 | 327.1 | 320.1 | 318.2 | 311.2 | 309.2 | 304.3 | 301.4 | 295.4 | 293.5 |
| 10° | 391.3 | 382.4 | 377.5 | 366.5 | 363.6 | 358.7 | 352.7 | 346.8 | 341.9 | 335.9 | 333.0 |
| 12.5° | 453.5 | 445.6 | 441.7 | 426.8 | 419.9 | 413.0 | 405.1 | 397.2 | 389.3 | 384.4 | 377.5 |
| 15° | 526.6 | 513.8 | 509.8 | 496.0 | 484.1 | 475.3 | 464.4 | 454.5 | 448.6 | 438.7 | 431.8 |
| 17.5° | 598.7 | 585.9 | 583.0 | 562.2 | 549.4 | 543.4 | 531.6 | 518.7 | 507.8 | 498.0 | 487.1 |
| 20° | 670.9 | 662.0 | 654.1 | 634.3 | 620.5 | 610.6 | 594.8 | 581.9 | 573.1 | 559.3 | 545.4 |
| 22.5° | 743.0 | 734.1 | 728.2 | 707.5 | 694.6 | 680.8 | 667.0 | 653.1 | 640.3 | 623.5 | 607.7 |
| 25° | 817.1 | 811.2 | 808.2 | 789.5 | 777.6 | 764.8 | 750.9 | 735.1 | 719.3 | 700.5 | 683.8 |
| 27.5° | 894.2 | 896.2 | 890.2 | 886.3 | 873.4 | 864.5 | 842.8 | 832.0 | 820.1 | 797.3 | 776.6 |
| 30° | 992.0 | 997.9 | 995.9 | 998.9 | 991.0 | 985.1 | 968.3 | 954.5 | 940.6 | 918.9 | 895.2 |
| 32.5° | 1115.5 | 1123.4 | 1127.3 | 1138.3 | 1134.3 | 1132.3 | 1127.3 | 1107.6 | 1097.7 | 1060.2 | 1050.3 |
| 35° | 1306.2 | 1302.2 | 1319.0 | 1327.9 | 1324.0 | 1322.0 | 1316.1 | 1305.2 | 1293.4 | 1266.7 | 1242.0 |
| 37.5° | 1554.2 | 1558.1 | 1564.1 | 1546.3 | 1534.4 | 1533.5 | 1515.7 | 1504.8 | 1488.0 | 1458.4 | 1428.7 |
| 40° | 2008.7 | 1984.0 | 1956.4 | 1881.2 | 1848.7 | 1829.9 | 1777.5 | 1762.7 | 1734.0 | 1693.5 | 1662.9 |
| 42.5° | 2599.6 | 2574.8 | 2491.9 | 2366.4 | 2299.2 | 2206.3 | 2163.8 | 2111.5 | 2071.0 | 2004.8 | 1969.2 |
| 45° | 3186.5 | 3115.3 | 3105.4 | 2959.2 | 2876.2 | 2753.7 | 2677.6 | 2589.7 | 2497.8 | 2410.9 | 2347.6 |
| 47.5° | 3681.5 | 3665.6 | 3617.3 | 3528.3 | 3451.3 | 3348.5 | 3250.7 | 3115.3 | 3020.5 | 2897.0 | 2783.3 |
| 50° | 4077.7 | 4076.7 | 4058.9 | 4007.5 | 3943.3 | 3860.3 | 3774.4 | 3659.8 | 3552.1 | 3400.9 | 3279.4 |
| 52.5° | 4374.1 | 4389.9 | 4395.8 | 4380.0 | 4355.3 | 4282.2 | 4238.8 | 4142.9 | 4052.0 | 3923.5 | 3792.1 |
| 55° | 4591.4 | 4649.8 | 4679.4 | 4713.0 | 4706.1 | 4680.4 | 4678.4 | 4616.2 | 4574.7 | 4472.9 | 4380.0 |
| 57.5° | 4860.2 | 4956.1 | 5047.9 | 5211.0 | 5216.9 | 5274.2 | 5303.9 | 5333.5 | 5341.4 | 5300.9 | 5270.3 |
| 60° | 5202.1 | 5397.7 | 5571.6 | 5912.5 | 6001.4 | 6141.7 | 6232.6 | 6331.4 | 6415.4 | 6422.3 | 6420.4 |
| 62.5° | 5443.1 | 5744.5 | 6025.1 | 6531.0 | 6703.9 | 6866.0 | 6987.5 | 7083.4 | 7141.6 | 7200.9 | 7228.6 |
| 63° | 5450.1 | 5780.1 | 6078.5 | 6600.2 | 6782.0 | 6936.1 | 7051.7 | 7140.7 | 7201.9 | 7237.4 | 7255.3 |
| 65° | 5283.1 | 5683.3 | 6038.9 | 6558.7 | 6729.6 | 6884.8 | 6945.0 | 7003.3 | 7033.0 | 7046.8 | 6994.4 |
| 67.5° | 4477.9 | 4869.1 | 5284.1 | 5865.1 | 6011.3 | 6197.0 | 6246.5 | 6276.1 | 6289.9 | 6287.0 | 6242.5 |
| 70° | 3348.5 | 3676.6 | 4138.0 | 4801.9 | 4995.6 | 5177.4 | 5290.0 | 5338.4 | 5354.2 | 5349.3 | 5283.1 |
| 72.5° | 2337.7 | 2530.4 | 2910.8 | 3649.9 | 3913.7 | 4146.8 | 4286.2 | 4358.3 | 4373.1 | 4343.5 | 4282.2 |
| 75° | 1963.3 | 1973.2 | 2059.1 | 2463.2 | 2710.2 | 2959.2 | 3116.3 | 3161.8 | 3132.1 | 3042.2 | 2886.1 |
| 77.5° | 1752.8 | 1774.6 | 1774.6 | 1834.8 | 1883.2 | 1952.4 | 1967.2 | 1856.5 | 1728.1 | 1562.1 | 1427.8 |
| 80° | 1470.2 | 1546.3 | 1599.7 | 1644.1 | 1649.0 | 1635.2 | 1598.6 | 1536.4 | 1437.6 | 1311.1 | 1170.8 |
| 82.5° | 893.2 | 1043.4 | 1104.7 | 1333.9 | 1446.5 | 1522.6 | 1516.7 | 1433.6 | 1358.6 | 1227.2 | 1107.6 |
| 85° | 225.3 | 243.1 | 263.8 | 342.8 | 384.4 | 469.3 | 522.7 | 547.4 | 556.3 | 510.8 | 462.4 |
| 87.5° | 21.7 | 14.8 | 24.7 | 18.8 | 26.7 | 19.7 | 26.7 | 24.7 | 30.6 | 32.6 | 35.6 |
| 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-E03-LED-E1-SL2-HSS

CANDELA DISTRIBUTION (continued):

| | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 |
| 2.5° | 230.2 | 229.2 | 228.2 | 227.3 | 226.3 | 225.3 | 223.3 | 223.3 | 221.3 | 220.3 | 219.4 |
| 5° | 255.9 | 253.9 | 253.0 | 251.0 | 248.0 | 246.0 | 243.1 | 239.1 | 236.2 | 235.1 | 233.2 |
| 7.5° | 288.5 | 283.6 | 281.6 | 278.6 | 274.7 | 268.7 | 264.8 | 261.8 | 256.9 | 253.9 | 248.0 |
| 10° | 325.1 | 320.1 | 314.2 | 308.3 | 302.3 | 295.4 | 290.5 | 286.6 | 278.6 | 274.7 | 267.8 |
| 12.5° | 371.5 | 362.6 | 355.7 | 347.8 | 339.9 | 332.0 | 326.0 | 314.2 | 307.3 | 298.4 | 292.4 |
| 15° | 418.9 | 411.0 | 403.1 | 393.2 | 381.4 | 368.5 | 362.6 | 351.7 | 342.8 | 329.0 | 321.1 |
| 17.5° | 476.2 | 461.4 | 449.6 | 437.7 | 426.8 | 415.0 | 403.1 | 386.3 | 373.5 | 361.6 | 345.8 |
| 20° | 532.6 | 514.8 | 501.9 | 486.1 | 470.3 | 451.6 | 437.7 | 425.8 | 408.1 | 392.3 | 375.5 |
| 22.5° | 592.8 | 575.0 | 554.3 | 538.5 | 516.8 | 501.9 | 483.2 | 463.4 | 445.6 | 424.9 | 404.1 |
| 25° | 665.9 | 647.2 | 623.5 | 602.7 | 578.0 | 557.3 | 534.5 | 511.8 | 490.1 | 466.4 | 439.7 |
| 27.5° | 755.9 | 736.1 | 710.4 | 685.7 | 653.1 | 627.4 | 605.7 | 575.0 | 547.4 | 517.7 | 487.1 |
| 30° | 869.5 | 847.7 | 816.1 | 780.5 | 748.0 | 719.3 | 688.7 | 648.2 | 617.5 | 581.9 | 542.5 |
| 32.5° | 1017.7 | 992.0 | 949.5 | 915.9 | 875.4 | 837.8 | 795.4 | 754.9 | 711.4 | 665.0 | 619.5 |
| 35° | 1204.4 | 1180.7 | 1131.3 | 1081.9 | 1037.5 | 993.0 | 939.7 | 893.2 | 832.0 | 775.6 | 717.3 |
| 37.5° | 1398.1 | 1355.6 | 1310.2 | 1256.8 | 1201.4 | 1148.1 | 1082.9 | 1018.7 | 948.5 | 887.3 | 814.1 |
| 40° | 1619.4 | 1568.0 | 1530.5 | 1473.2 | 1395.1 | 1319.0 | 1258.8 | 1178.8 | 1090.8 | 1008.8 | 922.9 |
| 42.5° | 1922.8 | 1865.5 | 1798.3 | 1711.3 | 1655.0 | 1566.1 | 1488.0 | 1393.1 | 1277.5 | 1185.7 | 1081.9 |
| 45° | 2273.5 | 2195.5 | 2130.2 | 2046.2 | 1978.1 | 1867.4 | 1776.5 | 1650.1 | 1534.4 | 1413.9 | 1287.4 |
| 47.5° | 2673.7 | 2576.8 | 2482.0 | 2399.0 | 2290.3 | 2181.6 | 2066.0 | 1931.6 | 1783.4 | 1651.0 | 1500.8 |
| 50° | 3133.1 | 2995.7 | 2864.3 | 2757.7 | 2608.4 | 2483.0 | 2357.5 | 2206.3 | 2042.3 | 1890.1 | 1719.2 |
| 52.5° | 3643.9 | 3484.9 | 3311.0 | 3146.9 | 2974.0 | 2813.0 | 2661.8 | 2487.9 | 2305.1 | 2119.4 | 1928.7 |
| 55° | 4260.5 | 4140.9 | 3936.4 | 3727.9 | 3496.7 | 3281.3 | 3086.6 | 2871.3 | 2648.9 | 2404.9 | 2204.3 |
| 57.5° | 5225.8 | 5167.5 | 4996.6 | 4788.1 | 4486.7 | 4224.9 | 3894.9 | 3631.1 | 3309.0 | 2973.1 | 2714.2 |
| 60° | 6534.0 | 6461.8 | 6366.0 | 6197.0 | 5957.9 | 5602.3 | 5238.7 | 4828.6 | 4338.5 | 3873.2 | 3431.5 |
| 62.5° | 7231.6 | 7205.8 | 7127.8 | 7011.2 | 6787.9 | 6507.3 | 6140.8 | 5690.2 | 5136.9 | 4571.7 | 4008.5 |
| 63° | 7252.3 | 7219.7 | 7152.5 | 7033.9 | 6837.3 | 6565.6 | 6205.9 | 5768.2 | 5226.8 | 4650.8 | 4075.7 |
| 65° | 6971.7 | 6958.9 | 6890.6 | 6761.2 | 6626.9 | 6419.3 | 6140.8 | 5764.3 | 5309.8 | 4765.4 | 4193.3 |
| 67.5° | 6183.2 | 6144.7 | 6040.0 | 6000.4 | 5906.6 | 5762.3 | 5549.9 | 5291.0 | 4966.0 | 4538.1 | 4044.1 |
| 70° | 5229.7 | 5172.4 | 5041.0 | 4970.9 | 4856.3 | 4765.4 | 4636.0 | 4451.2 | 4250.6 | 3952.2 | 3583.7 |
| 72.5° | 4219.0 | 4100.4 | 3979.9 | 3797.1 | 3637.0 | 3475.0 | 3331.7 | 3201.3 | 2980.9 | 2860.4 | 2580.8 |
| 75° | 2739.8 | 2524.4 | 2318.0 | 2041.3 | 1792.3 | 1572.0 | 1357.6 | 1248.9 | 1022.6 | 930.7 | 799.3 |
| 77.5° | 1300.3 | 1179.7 | 1017.7 | 892.2 | 732.1 | 597.8 | 488.1 | 366.5 | 287.5 | 225.3 | 171.9 |
| 80° | 1049.3 | 947.5 | 849.7 | 736.1 | 615.5 | 491.0 | 376.4 | 281.6 | 199.6 | 138.3 | 97.8 |
| 82.5° | 935.7 | 825.0 | 704.5 | 626.4 | 544.4 | 445.6 | 365.6 | 298.4 | 220.3 | 161.0 | 109.7 |
| 85° | 363.6 | 306.3 | 236.2 | 192.7 | 150.2 | 123.5 | 111.7 | 77.0 | 60.3 | 47.4 | 36.5 |
| 87.5° | 31.6 | 25.7 | 20.8 | 13.9 | 14.8 | 7.9 | 8.9 | 5.9 | 4.9 | 4.9 | 4.0 |
| 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: VTS-E03-LED-E1-SL2-HSS

CANDELA DISTRIBUTION (continued):

| | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 95° | 105° | 115° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0° | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 |
| 2.5° | 218.3 | 217.4 | 216.4 | 214.4 | 214.4 | 212.5 | 211.4 | 210.5 | 205.5 | 194.6 | 185.8 |
| 5° | 229.2 | 227.3 | 225.3 | 222.3 | 220.3 | 217.4 | 215.4 | 212.5 | 201.5 | 180.8 | 163.0 |
| 7.5° | 245.0 | 241.1 | 238.1 | 232.2 | 229.2 | 225.3 | 222.3 | 217.4 | 199.6 | 167.9 | 143.3 |
| 10° | 263.8 | 256.9 | 251.9 | 245.0 | 239.1 | 234.2 | 229.2 | 222.3 | 197.6 | 154.1 | 125.5 |
| 12.5° | 286.6 | 278.6 | 268.7 | 260.8 | 253.0 | 246.0 | 239.1 | 230.2 | 194.6 | 142.3 | 111.7 |
| 15° | 309.2 | 297.4 | 290.5 | 279.6 | 268.7 | 258.8 | 249.0 | 241.1 | 195.7 | 129.4 | 99.8 |
| 17.5° | 334.9 | 323.1 | 308.3 | 296.4 | 284.6 | 271.7 | 259.9 | 244.0 | 190.7 | 119.6 | 90.9 |
| 20° | 359.6 | 342.8 | 329.0 | 314.2 | 297.4 | 281.6 | 266.8 | 253.0 | 186.7 | 109.7 | 83.0 |
| 22.5° | 386.3 | 366.5 | 348.8 | 330.0 | 309.2 | 291.5 | 273.7 | 255.9 | 179.8 | 100.8 | 76.1 |
| 25° | 418.9 | 396.2 | 370.5 | 347.8 | 326.0 | 304.3 | 281.6 | 259.9 | 172.9 | 92.9 | 71.2 |
| 27.5° | 458.5 | 428.8 | 403.1 | 374.5 | 343.9 | 316.2 | 291.5 | 267.8 | 166.0 | 86.9 | 66.2 |
| 30° | 508.9 | 474.2 | 437.7 | 401.2 | 368.5 | 336.9 | 302.3 | 272.7 | 159.1 | 81.0 | 61.3 |
| 32.5° | 576.1 | 532.6 | 488.1 | 445.6 | 402.1 | 361.6 | 325.1 | 286.6 | 155.1 | 76.1 | 56.3 |
| 35° | 665.0 | 608.6 | 554.3 | 500.9 | 448.6 | 399.2 | 351.7 | 308.3 | 155.1 | 70.1 | 50.4 |
| 37.5° | 748.9 | 683.8 | 614.6 | 548.3 | 486.1 | 428.8 | 372.5 | 320.1 | 147.2 | 65.2 | 45.5 |
| 40° | 839.8 | 761.8 | 680.8 | 602.7 | 527.6 | 456.5 | 392.3 | 332.0 | 140.3 | 59.3 | 40.5 |
| 42.5° | 979.1 | 880.4 | 774.7 | 683.8 | 593.8 | 505.9 | 425.8 | 354.7 | 131.4 | 53.3 | 35.6 |
| 45° | 1162.0 | 1036.4 | 912.0 | 801.3 | 686.7 | 579.0 | 484.1 | 396.2 | 129.4 | 48.4 | 30.6 |
| 47.5° | 1357.6 | 1209.4 | 1063.1 | 921.8 | 787.5 | 662.0 | 548.3 | 442.6 | 129.4 | 43.5 | 26.7 |
| 50° | 1552.2 | 1366.5 | 1210.4 | 1046.3 | 895.2 | 746.9 | 611.6 | 491.0 | 130.4 | 39.5 | 21.7 |
| 52.5° | 1728.1 | 1529.5 | 1354.6 | 1164.9 | 997.9 | 826.0 | 678.8 | 538.5 | 128.5 | 34.6 | 17.8 |
| 55° | 1972.1 | 1739.0 | 1536.4 | 1327.0 | 1131.3 | 937.7 | 770.7 | 609.6 | 129.4 | 30.6 | 14.8 |
| 57.5° | 2421.7 | 2148.0 | 1904.0 | 1629.3 | 1404.0 | 1154.0 | 951.5 | 755.9 | 141.3 | 25.7 | 10.9 |
| 60° | 3066.9 | 2711.2 | 2368.4 | 2033.4 | 1746.9 | 1449.5 | 1186.6 | 956.5 | 166.0 | 20.8 | 7.9 |
| 62.5° | 3500.6 | 3035.3 | 2626.3 | 2256.7 | 1923.7 | 1612.5 | 1325.9 | 1064.1 | 182.8 | 16.8 | 4.9 |
| 63° | 3545.1 | 3064.0 | 2652.9 | 2271.5 | 1931.6 | 1620.4 | 1331.9 | 1072.0 | 183.8 | 15.8 | 4.9 |
| 65° | 3629.1 | 3113.3 | 2667.7 | 2274.5 | 1923.7 | 1609.6 | 1327.9 | 1071.1 | 185.8 | 12.8 | 4.0 |
| 67.5° | 3533.3 | 3037.3 | 2581.8 | 2189.5 | 1854.5 | 1545.3 | 1278.5 | 1031.5 | 184.7 | 8.9 | 2.9 |
| 70° | 3159.8 | 2748.8 | 2348.6 | 1983.0 | 1678.7 | 1399.1 | 1163.9 | 940.6 | 169.9 | 5.9 | 2.0 |
| 72.5° | 2320.0 | 2040.3 | 1730.1 | 1466.3 | 1264.7 | 1050.3 | 896.2 | 706.4 | 131.4 | 4.0 | 1.0 |
| 75° | 687.7 | 626.4 | 526.6 | 464.4 | 410.0 | 338.9 | 301.4 | 235.1 | 67.2 | 2.0 | 0.0 |
| 77.5° | 137.3 | 124.5 | 111.7 | 101.8 | 95.8 | 82.0 | 78.1 | 64.2 | 27.7 | 1.0 | 0.0 |
| 80° | 72.1 | 59.3 | 50.4 | 44.5 | 38.5 | 31.6 | 26.7 | 21.7 | 4.9 | 0.0 | 0.0 |
| 82.5° | 69.2 | 46.4 | 33.6 | 27.7 | 23.7 | 18.8 | 14.8 | 10.9 | 2.9 | 0.0 | 0.0 |
| 85° | 25.7 | 19.7 | 14.8 | 11.9 | 9.9 | 8.9 | 6.9 | 5.9 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.0 | 2.9 | 2.9 | 2.0 | 2.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| 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: P164917

CATALOG NUMBER: VTS-E03-LED-E1-SL2-HSS

CANDELA DISTRIBUTION (continued):

| | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 | 208.5 |
| 2.5° | 176.9 | 169.0 | 165.0 | 160.1 | 160.1 | 159.1 | 161.0 |
| 5° | 147.2 | 136.4 | 128.5 | 122.5 | 123.5 | 120.5 | 121.6 |
| 7.5° | 124.5 | 113.6 | 106.7 | 102.8 | 101.8 | 100.8 | 100.8 |
| 10° | 107.7 | 97.8 | 91.9 | 88.9 | 88.0 | 88.0 | 88.0 |
| 12.5° | 95.8 | 86.0 | 81.0 | 79.0 | 79.0 | 78.1 | 78.1 |
| 15° | 86.0 | 78.1 | 73.1 | 71.2 | 71.2 | 70.1 | 71.2 |
| 17.5° | 78.1 | 70.1 | 66.2 | 64.2 | 64.2 | 63.2 | 63.2 |
| 20° | 71.2 | 64.2 | 60.3 | 57.3 | 57.3 | 56.3 | 57.3 |
| 22.5° | 65.2 | 58.3 | 53.3 | 51.4 | 50.4 | 49.4 | 50.4 |
| 25° | 59.3 | 52.4 | 47.4 | 44.5 | 43.5 | 43.5 | 42.5 |
| 27.5° | 54.4 | 47.4 | 41.5 | 38.5 | 37.6 | 37.6 | 36.5 |
| 30° | 49.4 | 41.5 | 35.6 | 32.6 | 31.6 | 31.6 | 31.6 |
| 32.5° | 44.5 | 35.6 | 30.6 | 27.7 | 26.7 | 26.7 | 26.7 |
| 35° | 39.5 | 30.6 | 25.7 | 22.7 | 21.7 | 21.7 | 21.7 |
| 37.5° | 33.6 | 25.7 | 19.7 | 17.8 | 16.8 | 15.8 | 15.8 |
| 40° | 28.7 | 19.7 | 14.8 | 12.8 | 10.9 | 10.9 | 10.9 |
| 42.5° | 23.7 | 15.8 | 10.9 | 7.9 | 6.9 | 5.9 | 6.9 |
| 45° | 19.7 | 11.9 | 6.9 | 4.0 | 2.9 | 2.9 | 2.9 |
| 47.5° | 15.8 | 7.9 | 2.9 | 1.0 | 1.0 | 1.0 | 1.0 |
| 50° | 11.9 | 4.9 | 1.0 | 0.0 | 0.0 | 1.0 | 1.0 |
| 52.5° | 8.9 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 4.9 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 63° | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)