

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: P164931

Luminaire Tested: **VTS-F04-LED-E1-SL2-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P164931
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-F04-LED-E1-SL2-HSS-7030
Description: VENTUS LED SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5463.9 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

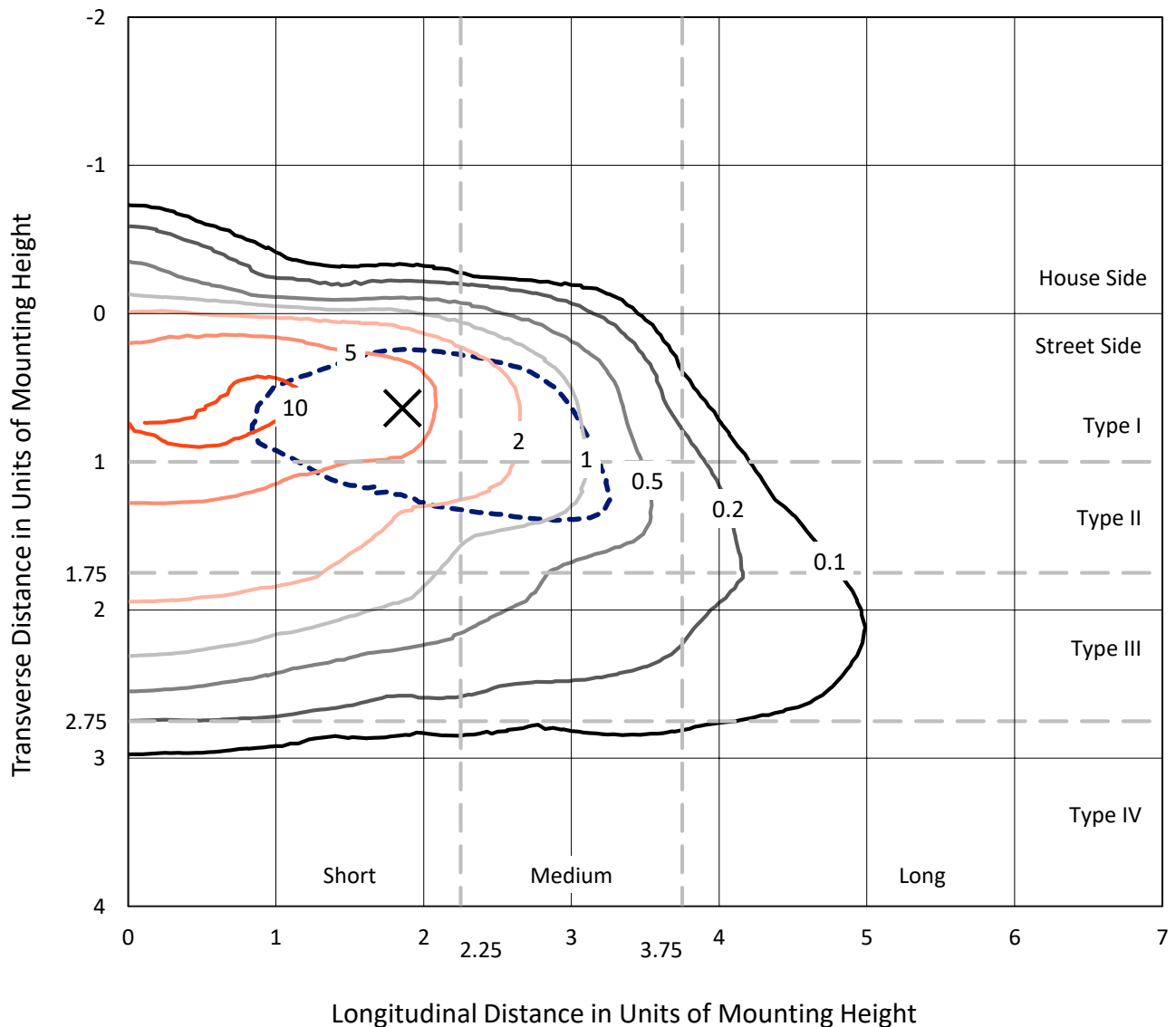
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

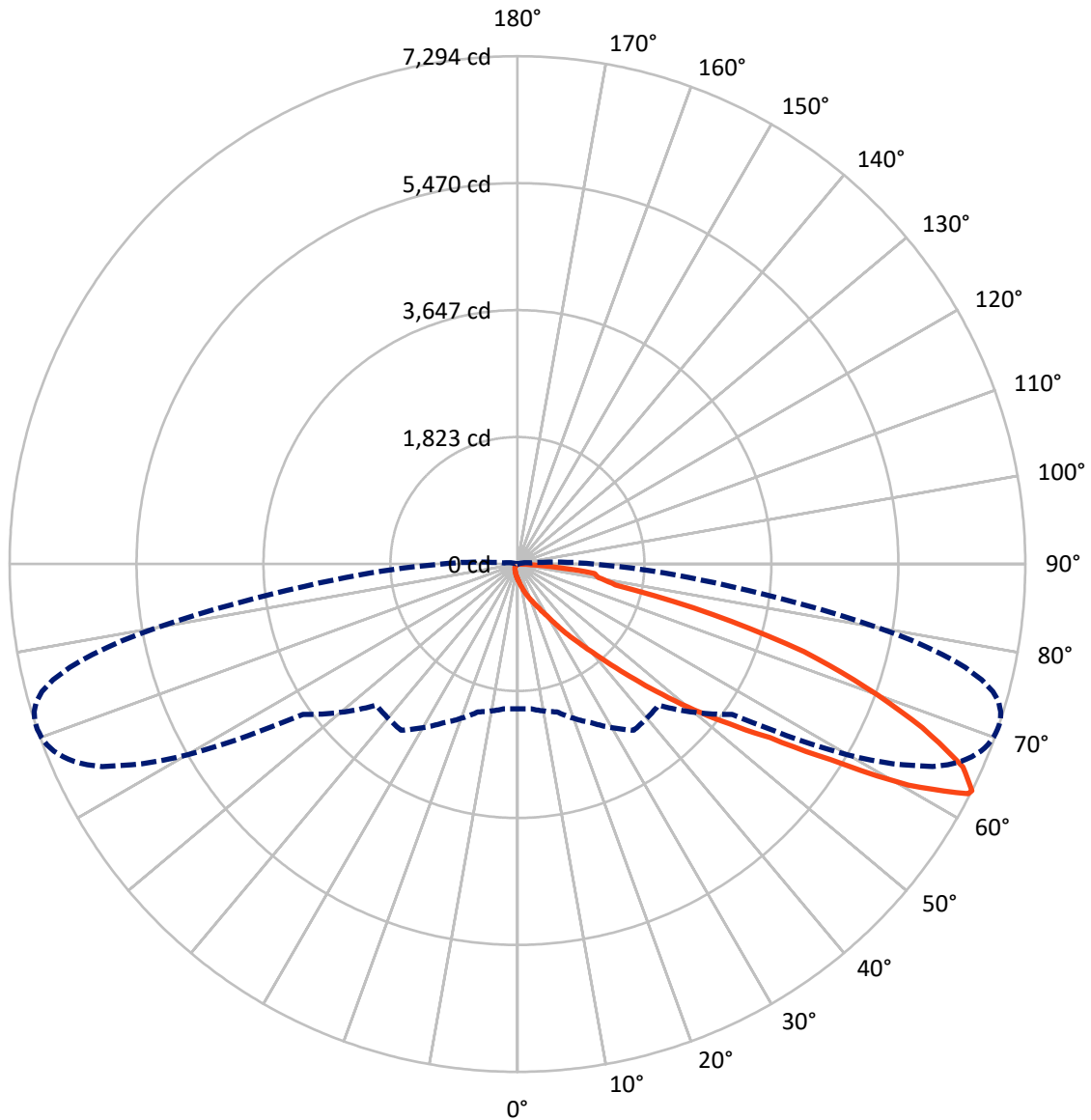


Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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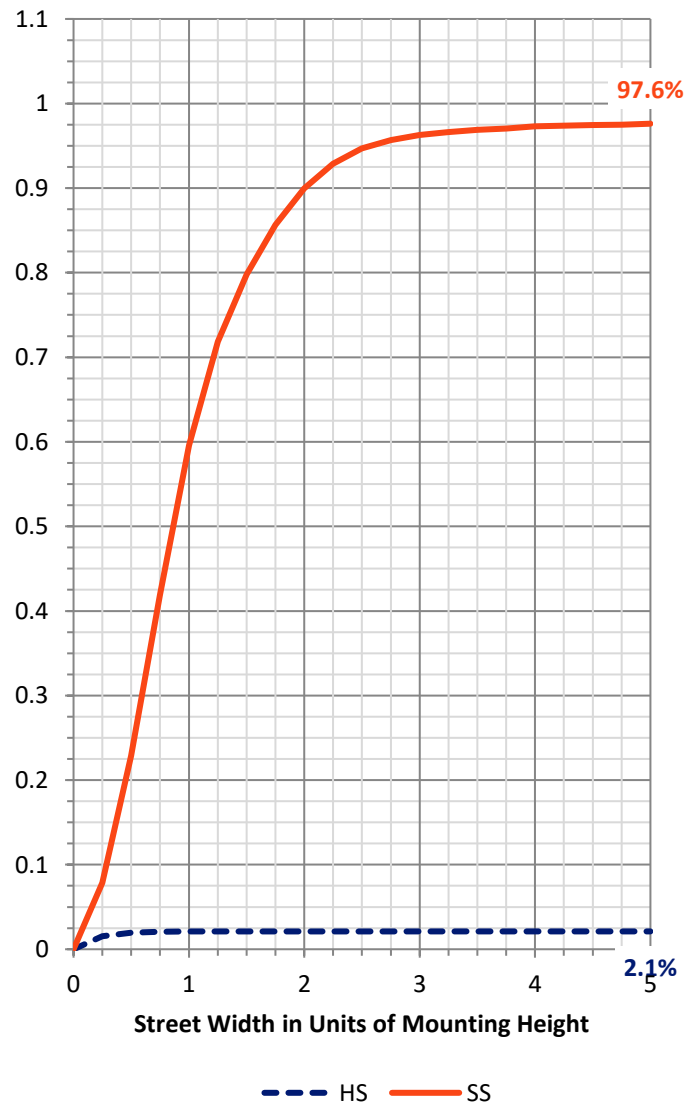
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 116.0 | 0.0 | 116.0 |
| | % Fixture | 2.1 | 0.0 | 2.1 |
| Street Side | Lumens | 5347.9 | 0.0 | 5347.9 |
| | % Fixture | 97.9 | 0.0 | 97.9 |
| Total | Lumens | 5463.9 | 0.0 | 5463.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 23.2 | 0.4 |
| 10°-20° | 89.8 | 1.6 |
| 20°-30° | 182.5 | 3.3 |
| 30°-40° | 445.8 | 8.2 |
| 40°-50° | 997.1 | 18.2 |
| 50°-60° | 1402.0 | 25.7 |
| 60°-70° | 1648.6 | 30.2 |
| 70°-80° | 595.3 | 10.9 |
| 80°-90° | 79.6 | 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° | 5463.9 | 100.0 |
| 0°-180° | 5463.9 | 100.0 |



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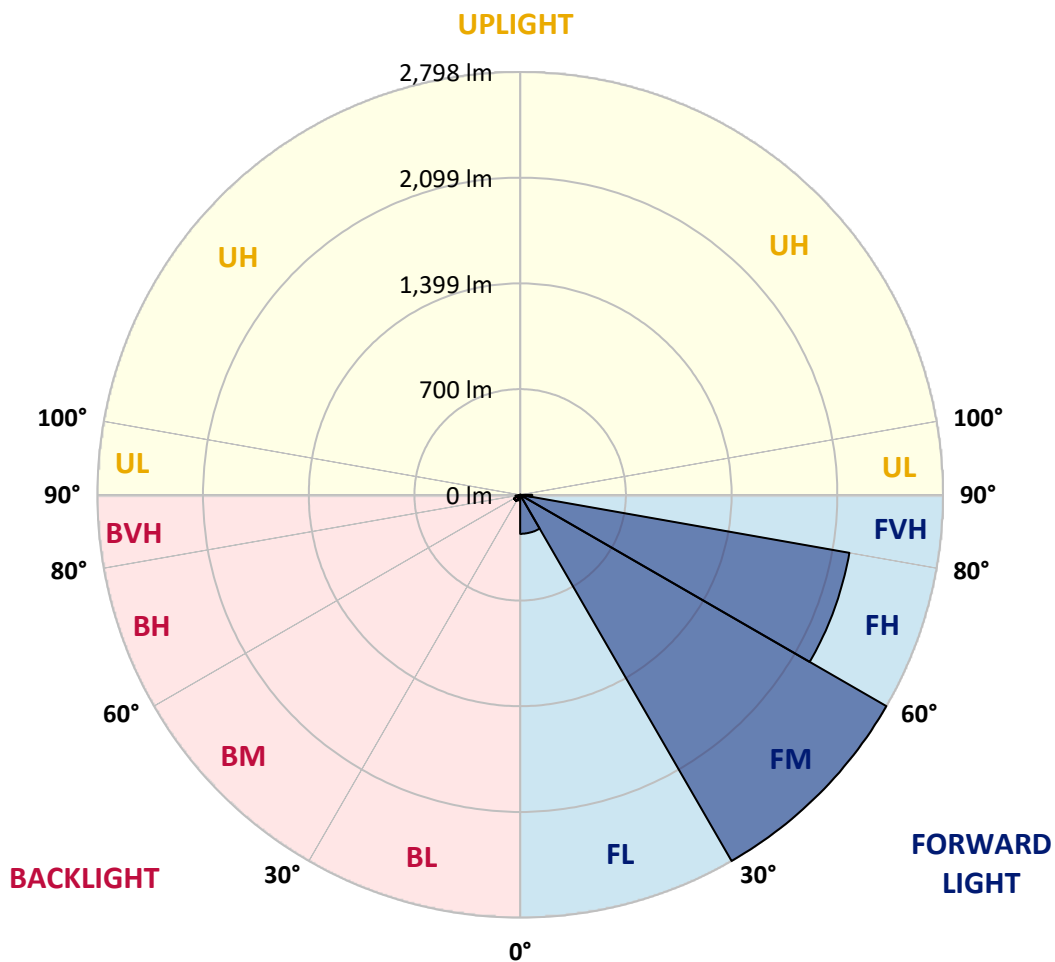
CATALOG NUMBER: VTS-F04-LED-E1-SL2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 258.2 | 4.7 | | | |
| FM | (30°-60°) | 2798.2 | 51.2 | | | |
| FH | (60°-80°) | 2212.1 | 40.5 | | | G2/5000 |
| FVH | (80°-90°) | 79.4 | 1.5 | | | G1/100 |
| BL | (0°-30°) | 37.3 | 0.7 | B0/110 | | |
| BM | (30°-60°) | 46.7 | 0.9 | B0/220 | | |
| BH | (60°-80°) | 31.8 | 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° | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 |
| 2.5° | 274.2 | 277.1 | 275.1 | 270.2 | 264.2 | 256.3 | 249.3 | 249.3 | 248.3 | 245.3 | 246.3 |
| 5° | 359.6 | 360.6 | 356.6 | 344.7 | 333.7 | 316.9 | 298.0 | 296.0 | 294.0 | 291.0 | 290.1 |
| 7.5° | 443.0 | 447.0 | 443.0 | 430.1 | 408.2 | 382.4 | 352.6 | 349.7 | 343.7 | 343.7 | 339.7 |
| 10° | 528.5 | 528.5 | 524.5 | 509.6 | 489.7 | 452.9 | 415.2 | 410.2 | 403.3 | 401.3 | 395.3 |
| 12.5° | 589.0 | 589.0 | 587.0 | 579.1 | 563.2 | 530.4 | 484.7 | 479.8 | 470.9 | 467.8 | 460.9 |
| 15° | 612.8 | 612.8 | 613.9 | 620.8 | 621.8 | 606.9 | 559.2 | 555.2 | 546.3 | 538.4 | 535.4 |
| 17.5° | 627.7 | 626.8 | 626.8 | 636.7 | 654.6 | 664.5 | 633.7 | 629.7 | 619.8 | 615.9 | 605.9 |
| 20° | 660.6 | 658.6 | 652.6 | 652.6 | 669.5 | 704.2 | 704.2 | 703.3 | 692.3 | 689.3 | 684.4 |
| 22.5° | 709.2 | 707.2 | 689.3 | 674.4 | 682.4 | 726.1 | 766.8 | 764.9 | 760.9 | 756.9 | 753.9 |
| 25° | 788.7 | 781.7 | 750.9 | 707.2 | 700.3 | 747.0 | 814.5 | 819.5 | 822.5 | 822.5 | 824.4 |
| 27.5° | 908.9 | 900.0 | 845.3 | 763.9 | 733.1 | 780.7 | 867.2 | 877.1 | 886.0 | 888.0 | 897.0 |
| 30° | 1075.7 | 1059.9 | 981.4 | 862.2 | 791.7 | 830.4 | 944.7 | 955.6 | 968.5 | 972.5 | 986.3 |
| 32.5° | 1349.9 | 1341.0 | 1265.5 | 1086.7 | 935.7 | 927.8 | 1052.9 | 1066.8 | 1083.7 | 1090.6 | 1107.5 |
| 35° | 1767.1 | 1769.1 | 1707.5 | 1546.6 | 1338.0 | 1228.7 | 1246.6 | 1258.5 | 1264.5 | 1285.3 | 1294.3 |
| 37.5° | 2050.2 | 2055.1 | 2069.1 | 2005.5 | 1856.5 | 1745.2 | 1605.2 | 1618.1 | 1587.3 | 1590.3 | 1591.3 |
| 40° | 2205.2 | 2221.0 | 2302.5 | 2364.1 | 2352.2 | 2287.6 | 2175.4 | 2182.3 | 2124.7 | 2111.8 | 2049.2 |
| 42.5° | 2308.4 | 2329.3 | 2459.5 | 2650.1 | 2747.5 | 2806.1 | 2780.3 | 2777.3 | 2732.6 | 2715.7 | 2663.0 |
| 45° | 2373.0 | 2391.9 | 2555.8 | 2836.9 | 3061.4 | 3232.2 | 3302.7 | 3310.7 | 3272.9 | 3256.0 | 3212.4 |
| 47.5° | 2370.0 | 2391.9 | 2567.7 | 2906.4 | 3237.2 | 3510.4 | 3709.0 | 3718.9 | 3741.8 | 3726.9 | 3729.9 |
| 50° | 2238.9 | 2259.8 | 2436.6 | 2788.2 | 3185.5 | 3637.5 | 4001.1 | 4032.8 | 4069.6 | 4094.4 | 4106.4 |
| 52.5° | 2080.0 | 2094.9 | 2251.8 | 2585.6 | 2965.0 | 3584.8 | 4173.9 | 4228.5 | 4283.2 | 4329.9 | 4362.6 |
| 55° | 2021.4 | 2038.3 | 2161.4 | 2438.6 | 2788.2 | 3364.3 | 4254.3 | 4334.8 | 4412.3 | 4488.8 | 4551.3 |
| 57.5° | 2052.2 | 2068.1 | 2156.5 | 2369.0 | 2683.0 | 3131.9 | 4277.2 | 4402.4 | 4529.5 | 4653.6 | 4776.8 |
| 60° | 2165.4 | 2182.3 | 2257.8 | 2433.6 | 2655.1 | 2997.8 | 4187.8 | 4395.4 | 4607.0 | 4823.5 | 5027.1 |
| 62.5° | 2120.7 | 2127.6 | 2238.9 | 2546.9 | 2853.8 | 2883.6 | 3863.0 | 4153.1 | 4475.9 | 4809.6 | 5138.4 |
| 63° | 2078.0 | 2086.0 | 2199.2 | 2516.0 | 2914.4 | 2866.7 | 3762.7 | 4068.6 | 4409.3 | 4768.9 | 5126.5 |
| 65° | 1884.3 | 1885.3 | 1971.7 | 2222.0 | 2846.8 | 2896.5 | 3315.7 | 3607.7 | 3999.1 | 4430.2 | 4882.1 |
| 67.5° | 1406.5 | 1399.6 | 1483.0 | 1673.7 | 2235.0 | 2897.5 | 2845.8 | 3009.8 | 3281.9 | 3664.3 | 4069.6 |
| 70° | 498.7 | 487.7 | 622.8 | 887.0 | 1392.6 | 2370.0 | 2445.5 | 2456.5 | 2532.0 | 2738.6 | 2992.9 |
| 72.5° | 161.9 | 164.9 | 198.6 | 324.8 | 641.7 | 1595.3 | 2214.1 | 2180.3 | 2160.5 | 2159.4 | 2193.2 |
| 75° | 64.5 | 65.6 | 79.4 | 144.0 | 288.1 | 768.8 | 1939.0 | 1957.8 | 1964.8 | 1974.7 | 1985.7 |
| 77.5° | 30.8 | 33.8 | 44.7 | 80.5 | 143.0 | 380.4 | 1387.6 | 1547.6 | 1638.9 | 1709.5 | 1752.2 |
| 80° | 10.9 | 12.9 | 24.9 | 49.6 | 66.5 | 174.8 | 731.1 | 882.1 | 1016.1 | 1189.0 | 1338.0 |
| 82.5° | 0.0 | 0.0 | 4.9 | 34.7 | 36.7 | 70.5 | 300.0 | 351.6 | 402.3 | 521.5 | 669.5 |
| 85° | 0.0 | 0.0 | 0.0 | 10.0 | 10.9 | 11.9 | 101.3 | 122.2 | 137.1 | 159.9 | 184.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 3.0 | 6.0 | 14.9 | 22.9 |
| 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):

| | 60° | 61° | 62° | 64° | 65° | 66° | 67° | 68° | 69° | 70° | 71° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 |
| 2.5° | 244.4 | 243.4 | 243.4 | 241.4 | 240.4 | 238.4 | 237.4 | 234.4 | 233.4 | 233.4 | 233.4 |
| 5° | 289.1 | 285.1 | 283.1 | 278.1 | 275.1 | 274.2 | 269.2 | 267.2 | 264.2 | 265.2 | 260.2 |
| 7.5° | 338.7 | 331.8 | 328.8 | 321.8 | 319.9 | 312.9 | 310.9 | 305.9 | 303.0 | 297.0 | 295.0 |
| 10° | 393.3 | 384.4 | 379.5 | 368.5 | 365.5 | 360.6 | 354.6 | 348.6 | 343.7 | 337.7 | 334.8 |
| 12.5° | 456.0 | 448.0 | 444.0 | 429.1 | 422.2 | 415.2 | 407.3 | 399.3 | 391.4 | 386.4 | 379.5 |
| 15° | 529.4 | 516.5 | 512.5 | 498.7 | 486.7 | 477.8 | 466.9 | 456.9 | 450.9 | 441.1 | 434.1 |
| 17.5° | 601.9 | 589.0 | 586.1 | 565.2 | 552.3 | 546.3 | 534.4 | 521.5 | 510.5 | 500.7 | 489.7 |
| 20° | 674.4 | 665.5 | 657.5 | 637.7 | 623.8 | 613.9 | 597.9 | 585.0 | 576.1 | 562.2 | 548.3 |
| 22.5° | 747.0 | 738.0 | 732.1 | 711.2 | 698.3 | 684.4 | 670.5 | 656.6 | 643.7 | 626.8 | 610.9 |
| 25° | 821.5 | 815.5 | 812.5 | 793.7 | 781.7 | 768.8 | 754.9 | 739.0 | 723.1 | 704.2 | 687.4 |
| 27.5° | 898.9 | 900.9 | 895.0 | 891.0 | 878.1 | 869.1 | 847.3 | 836.4 | 824.4 | 801.6 | 780.7 |
| 30° | 997.3 | 1003.2 | 1001.2 | 1004.3 | 996.3 | 990.3 | 973.4 | 959.6 | 945.6 | 923.8 | 900.0 |
| 32.5° | 1121.5 | 1129.4 | 1133.3 | 1144.3 | 1140.3 | 1138.3 | 1133.3 | 1113.5 | 1103.5 | 1065.8 | 1055.9 |
| 35° | 1313.2 | 1309.2 | 1326.1 | 1335.0 | 1331.0 | 1329.1 | 1323.1 | 1312.2 | 1300.2 | 1273.4 | 1248.6 |
| 37.5° | 1562.5 | 1566.4 | 1572.4 | 1554.6 | 1542.6 | 1541.6 | 1523.7 | 1512.8 | 1495.9 | 1466.1 | 1436.3 |
| 40° | 2019.4 | 1994.6 | 1966.8 | 1891.3 | 1858.5 | 1839.6 | 1787.0 | 1772.1 | 1743.2 | 1702.5 | 1671.8 |
| 42.5° | 2613.4 | 2588.6 | 2505.1 | 2379.0 | 2311.4 | 2218.1 | 2175.4 | 2122.7 | 2082.0 | 2015.5 | 1979.7 |
| 45° | 3203.4 | 3131.9 | 3122.0 | 2975.0 | 2891.5 | 2768.4 | 2691.9 | 2603.4 | 2511.1 | 2423.7 | 2360.1 |
| 47.5° | 3701.1 | 3685.2 | 3636.5 | 3547.1 | 3469.6 | 3366.3 | 3268.0 | 3131.9 | 3036.5 | 2912.4 | 2798.2 |
| 50° | 4099.4 | 4098.4 | 4080.5 | 4028.9 | 3964.3 | 3880.9 | 3794.5 | 3679.2 | 3571.0 | 3419.0 | 3296.8 |
| 52.5° | 4397.4 | 4413.3 | 4419.2 | 4403.3 | 4378.5 | 4305.0 | 4261.3 | 4164.9 | 4073.6 | 3944.4 | 3812.3 |
| 55° | 4615.9 | 4674.5 | 4704.3 | 4738.1 | 4731.2 | 4705.3 | 4703.4 | 4640.7 | 4599.1 | 4496.7 | 4403.3 |
| 57.5° | 4886.1 | 4982.4 | 5074.8 | 5238.7 | 5244.7 | 5302.3 | 5332.1 | 5361.9 | 5369.8 | 5329.1 | 5298.3 |
| 60° | 5229.8 | 5426.5 | 5601.3 | 5944.0 | 6033.4 | 6174.4 | 6265.8 | 6365.2 | 6449.5 | 6456.5 | 6454.5 |
| 62.5° | 5472.1 | 5775.1 | 6057.2 | 6565.8 | 6739.6 | 6902.5 | 7024.7 | 7121.1 | 7179.6 | 7239.2 | 7267.0 |
| 63° | 5479.1 | 5810.9 | 6110.8 | 6635.3 | 6818.1 | 6973.1 | 7089.3 | 7178.7 | 7240.3 | 7276.0 | 7293.9 |
| 65° | 5311.3 | 5713.5 | 6071.1 | 6593.6 | 6765.4 | 6921.4 | 6982.0 | 7040.6 | 7070.4 | 7084.3 | 7031.6 |
| 67.5° | 4501.7 | 4895.0 | 5312.2 | 5896.3 | 6043.3 | 6230.0 | 6279.7 | 6309.5 | 6323.4 | 6320.5 | 6275.8 |
| 70° | 3366.3 | 3696.1 | 4160.0 | 4827.5 | 5022.2 | 5205.0 | 5318.2 | 5366.9 | 5382.7 | 5377.8 | 5311.3 |
| 72.5° | 2350.2 | 2543.9 | 2926.3 | 3669.3 | 3934.5 | 4168.9 | 4309.0 | 4381.5 | 4396.4 | 4366.6 | 4305.0 |
| 75° | 1973.7 | 1983.7 | 2070.0 | 2476.3 | 2724.6 | 2975.0 | 3132.9 | 3178.6 | 3148.8 | 3058.4 | 2901.5 |
| 77.5° | 1762.1 | 1784.0 | 1784.0 | 1844.6 | 1893.2 | 1962.8 | 1977.7 | 1866.4 | 1737.3 | 1570.4 | 1435.4 |
| 80° | 1478.1 | 1554.6 | 1608.2 | 1652.9 | 1657.8 | 1643.9 | 1607.2 | 1544.6 | 1445.3 | 1318.1 | 1177.1 |
| 82.5° | 898.0 | 1049.0 | 1110.5 | 1341.0 | 1454.2 | 1530.7 | 1524.8 | 1441.3 | 1365.8 | 1233.7 | 1113.5 |
| 85° | 226.5 | 244.4 | 265.2 | 344.7 | 386.4 | 471.8 | 525.4 | 550.3 | 559.2 | 513.6 | 464.9 |
| 87.5° | 21.8 | 14.9 | 24.9 | 18.9 | 26.8 | 19.8 | 26.8 | 24.9 | 30.8 | 32.8 | 35.8 |
| 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):

| | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 |
| 2.5° | 231.4 | 230.4 | 229.5 | 228.5 | 227.5 | 226.5 | 224.5 | 224.5 | 222.5 | 221.5 | 220.5 |
| 5° | 257.3 | 255.3 | 254.3 | 252.3 | 249.3 | 247.3 | 244.4 | 240.4 | 237.4 | 236.4 | 234.4 |
| 7.5° | 290.1 | 285.1 | 283.1 | 280.1 | 276.1 | 270.2 | 266.2 | 263.2 | 258.3 | 255.3 | 249.3 |
| 10° | 326.8 | 321.8 | 315.9 | 309.9 | 303.9 | 297.0 | 292.0 | 288.1 | 280.1 | 276.1 | 269.2 |
| 12.5° | 373.5 | 364.6 | 357.6 | 349.7 | 341.7 | 333.7 | 327.8 | 315.9 | 308.9 | 300.0 | 294.0 |
| 15° | 421.2 | 413.2 | 405.3 | 395.3 | 383.4 | 370.5 | 364.6 | 353.6 | 344.7 | 330.8 | 322.8 |
| 17.5° | 478.8 | 463.9 | 452.0 | 440.0 | 429.1 | 417.2 | 405.3 | 388.4 | 375.5 | 363.5 | 347.7 |
| 20° | 535.4 | 517.5 | 504.6 | 488.7 | 472.8 | 454.0 | 440.0 | 428.1 | 410.2 | 394.4 | 377.5 |
| 22.5° | 596.0 | 578.1 | 557.2 | 541.4 | 519.5 | 504.6 | 485.8 | 465.8 | 448.0 | 427.1 | 406.3 |
| 25° | 669.5 | 650.6 | 626.8 | 605.9 | 581.1 | 560.2 | 537.4 | 514.5 | 492.7 | 468.9 | 442.0 |
| 27.5° | 759.9 | 740.0 | 714.2 | 689.3 | 656.6 | 630.8 | 608.9 | 578.1 | 550.3 | 520.5 | 489.7 |
| 30° | 874.1 | 852.3 | 820.5 | 784.7 | 751.9 | 723.1 | 692.3 | 651.6 | 620.8 | 585.0 | 545.3 |
| 32.5° | 1023.1 | 997.3 | 954.6 | 920.8 | 880.1 | 842.3 | 799.6 | 758.9 | 715.2 | 668.5 | 622.8 |
| 35° | 1210.9 | 1187.0 | 1137.3 | 1087.7 | 1043.0 | 998.3 | 944.7 | 898.0 | 836.4 | 779.7 | 721.1 |
| 37.5° | 1405.6 | 1362.8 | 1317.1 | 1263.5 | 1207.8 | 1154.2 | 1088.6 | 1024.1 | 953.6 | 892.0 | 818.5 |
| 40° | 1628.0 | 1576.4 | 1538.6 | 1481.0 | 1402.5 | 1326.1 | 1265.5 | 1185.0 | 1096.6 | 1014.2 | 927.8 |
| 42.5° | 1933.0 | 1875.4 | 1807.8 | 1720.4 | 1663.8 | 1574.4 | 1495.9 | 1400.6 | 1284.3 | 1192.0 | 1087.7 |
| 45° | 2285.6 | 2207.2 | 2141.6 | 2057.1 | 1988.6 | 1877.4 | 1786.0 | 1658.8 | 1542.6 | 1421.4 | 1294.3 |
| 47.5° | 2687.9 | 2590.5 | 2495.2 | 2411.8 | 2302.5 | 2193.2 | 2077.0 | 1941.9 | 1792.9 | 1659.8 | 1508.8 |
| 50° | 3149.8 | 3011.7 | 2879.6 | 2772.3 | 2622.3 | 2496.2 | 2370.0 | 2218.1 | 2053.2 | 1900.2 | 1728.3 |
| 52.5° | 3663.3 | 3503.4 | 3328.6 | 3163.7 | 2989.9 | 2828.0 | 2676.0 | 2501.1 | 2317.4 | 2130.7 | 1939.0 |
| 55° | 4283.2 | 4162.9 | 3957.4 | 3747.8 | 3515.3 | 3298.8 | 3103.1 | 2886.6 | 2663.0 | 2417.7 | 2216.1 |
| 57.5° | 5253.6 | 5195.0 | 5023.2 | 4813.6 | 4510.6 | 4247.4 | 3915.6 | 3650.4 | 3326.6 | 2988.9 | 2728.6 |
| 60° | 6568.8 | 6496.2 | 6399.9 | 6230.0 | 5989.7 | 5632.1 | 5266.6 | 4854.3 | 4361.6 | 3893.8 | 3449.8 |
| 62.5° | 7270.1 | 7244.2 | 7165.8 | 7048.5 | 6824.1 | 6541.9 | 6173.5 | 5720.5 | 5164.3 | 4596.0 | 4029.9 |
| 63° | 7290.9 | 7258.1 | 7190.6 | 7071.4 | 6873.7 | 6600.6 | 6239.0 | 5798.9 | 5254.6 | 4675.5 | 4097.4 |
| 65° | 7008.8 | 6995.9 | 6927.3 | 6797.2 | 6662.2 | 6453.5 | 6173.5 | 5795.0 | 5338.0 | 4790.8 | 4215.6 |
| 67.5° | 6216.2 | 6177.4 | 6072.1 | 6032.4 | 5938.0 | 5793.0 | 5579.4 | 5319.2 | 4992.4 | 4562.3 | 4065.6 |
| 70° | 5257.6 | 5200.0 | 5067.9 | 4997.3 | 4882.1 | 4790.8 | 4660.6 | 4474.9 | 4273.2 | 3973.2 | 3602.8 |
| 72.5° | 4241.4 | 4122.2 | 4001.1 | 3817.3 | 3656.4 | 3493.5 | 3349.4 | 3218.3 | 2996.8 | 2875.6 | 2594.5 |
| 75° | 2754.4 | 2537.9 | 2330.3 | 2052.2 | 1801.9 | 1580.4 | 1364.8 | 1255.5 | 1028.1 | 935.7 | 803.6 |
| 77.5° | 1307.2 | 1186.0 | 1023.1 | 897.0 | 736.0 | 601.0 | 490.7 | 368.5 | 289.1 | 226.5 | 172.8 |
| 80° | 1054.9 | 952.6 | 854.2 | 740.0 | 618.8 | 493.7 | 378.4 | 283.1 | 200.6 | 139.0 | 98.3 |
| 82.5° | 940.7 | 829.4 | 708.2 | 629.7 | 547.3 | 448.0 | 367.5 | 300.0 | 221.5 | 161.9 | 110.3 |
| 85° | 365.5 | 307.9 | 237.4 | 193.7 | 151.0 | 124.1 | 112.3 | 77.5 | 60.6 | 47.7 | 36.7 |
| 87.5° | 31.8 | 25.8 | 20.9 | 13.9 | 14.9 | 8.0 | 8.9 | 6.0 | 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-F04-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

| | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 95° | 105° | 115° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0° | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 |
| 2.5° | 219.5 | 218.5 | 217.5 | 215.5 | 215.5 | 213.6 | 212.6 | 211.6 | 206.6 | 195.7 | 186.7 |
| 5° | 230.4 | 228.5 | 226.5 | 223.5 | 221.5 | 218.5 | 216.5 | 213.6 | 202.6 | 181.8 | 163.9 |
| 7.5° | 246.3 | 242.4 | 239.4 | 233.4 | 230.4 | 226.5 | 223.5 | 218.5 | 200.6 | 168.8 | 144.0 |
| 10° | 265.2 | 258.3 | 253.3 | 246.3 | 240.4 | 235.4 | 230.4 | 223.5 | 198.6 | 155.0 | 126.1 |
| 12.5° | 288.1 | 280.1 | 270.2 | 262.2 | 254.3 | 247.3 | 240.4 | 231.4 | 195.7 | 143.0 | 112.3 |
| 15° | 310.9 | 299.0 | 292.0 | 281.1 | 270.2 | 260.2 | 250.3 | 242.4 | 196.7 | 130.1 | 100.3 |
| 17.5° | 336.7 | 324.8 | 309.9 | 298.0 | 286.1 | 273.2 | 261.2 | 245.3 | 191.7 | 120.2 | 91.4 |
| 20° | 361.6 | 344.7 | 330.8 | 315.9 | 299.0 | 283.1 | 268.2 | 254.3 | 187.7 | 110.3 | 83.4 |
| 22.5° | 388.4 | 368.5 | 350.6 | 331.8 | 310.9 | 293.0 | 275.1 | 257.3 | 180.8 | 101.3 | 76.5 |
| 25° | 421.2 | 398.3 | 372.5 | 349.7 | 327.8 | 305.9 | 283.1 | 261.2 | 173.8 | 93.4 | 71.5 |
| 27.5° | 460.9 | 431.1 | 405.3 | 376.5 | 345.7 | 317.9 | 293.0 | 269.2 | 166.9 | 87.4 | 66.5 |
| 30° | 511.6 | 476.8 | 440.0 | 403.3 | 370.5 | 338.7 | 303.9 | 274.2 | 159.9 | 81.4 | 61.6 |
| 32.5° | 579.1 | 535.4 | 490.7 | 448.0 | 404.3 | 363.5 | 326.8 | 288.1 | 155.9 | 76.5 | 56.6 |
| 35° | 668.5 | 611.9 | 557.2 | 503.6 | 450.9 | 401.3 | 353.6 | 309.9 | 155.9 | 70.5 | 50.7 |
| 37.5° | 752.9 | 687.4 | 617.9 | 551.3 | 488.7 | 431.1 | 374.5 | 321.8 | 148.0 | 65.6 | 45.7 |
| 40° | 844.3 | 765.8 | 684.4 | 605.9 | 530.4 | 458.9 | 394.4 | 333.7 | 141.0 | 59.6 | 40.7 |
| 42.5° | 984.4 | 885.1 | 778.8 | 687.4 | 597.0 | 508.6 | 428.1 | 356.6 | 132.1 | 53.6 | 35.8 |
| 45° | 1168.1 | 1042.0 | 916.9 | 805.6 | 690.4 | 582.1 | 486.7 | 398.3 | 130.1 | 48.7 | 30.8 |
| 47.5° | 1364.8 | 1215.8 | 1068.8 | 926.7 | 791.7 | 665.5 | 551.3 | 445.0 | 130.1 | 43.7 | 26.8 |
| 50° | 1560.5 | 1373.8 | 1216.8 | 1051.9 | 900.0 | 750.9 | 614.8 | 493.7 | 131.1 | 39.8 | 21.8 |
| 52.5° | 1737.3 | 1537.7 | 1361.8 | 1171.1 | 1003.2 | 830.4 | 682.4 | 541.4 | 129.1 | 34.7 | 17.9 |
| 55° | 1982.6 | 1748.2 | 1544.6 | 1334.0 | 1137.3 | 942.7 | 774.8 | 612.8 | 130.1 | 30.8 | 14.9 |
| 57.5° | 2434.6 | 2159.4 | 1914.1 | 1638.0 | 1411.5 | 1160.2 | 956.5 | 759.9 | 142.1 | 25.8 | 10.9 |
| 60° | 3083.2 | 2725.7 | 2381.0 | 2044.2 | 1756.2 | 1457.2 | 1192.9 | 961.6 | 166.9 | 20.9 | 8.0 |
| 62.5° | 3519.3 | 3051.4 | 2640.2 | 2268.7 | 1934.0 | 1621.1 | 1333.0 | 1069.8 | 183.7 | 16.9 | 4.9 |
| 63° | 3564.0 | 3080.3 | 2667.0 | 2283.6 | 1941.9 | 1629.0 | 1339.0 | 1077.7 | 184.8 | 15.9 | 4.9 |
| 65° | 3648.4 | 3129.9 | 2681.9 | 2286.6 | 1934.0 | 1618.1 | 1335.0 | 1076.8 | 186.7 | 12.9 | 4.0 |
| 67.5° | 3552.1 | 3053.4 | 2595.5 | 2201.2 | 1864.4 | 1553.5 | 1285.3 | 1037.0 | 185.7 | 8.9 | 3.0 |
| 70° | 3176.6 | 2763.4 | 2361.1 | 1993.6 | 1687.6 | 1406.5 | 1170.1 | 945.6 | 170.8 | 6.0 | 2.0 |
| 72.5° | 2332.3 | 2051.2 | 1739.3 | 1474.1 | 1271.4 | 1055.9 | 900.9 | 710.2 | 132.1 | 4.0 | 1.0 |
| 75° | 691.3 | 629.7 | 529.4 | 466.9 | 412.2 | 340.7 | 303.0 | 236.4 | 67.6 | 2.0 | 0.0 |
| 77.5° | 138.1 | 125.2 | 112.3 | 102.3 | 96.3 | 82.5 | 78.5 | 64.5 | 27.8 | 1.0 | 0.0 |
| 80° | 72.5 | 59.6 | 50.7 | 44.7 | 38.7 | 31.8 | 26.8 | 21.8 | 4.9 | 0.0 | 0.0 |
| 82.5° | 69.5 | 46.7 | 33.8 | 27.8 | 23.8 | 18.9 | 14.9 | 10.9 | 3.0 | 0.0 | 0.0 |
| 85° | 25.8 | 19.8 | 14.9 | 11.9 | 10.0 | 8.9 | 6.9 | 6.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.0 | 3.0 | 3.0 | 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: P164931

CATALOG NUMBER: VTS-F04-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

| | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 | 209.6 |
| 2.5° | 177.8 | 169.9 | 165.9 | 160.9 | 160.9 | 159.9 | 161.9 |
| 5° | 148.0 | 137.1 | 129.1 | 123.2 | 124.1 | 121.2 | 122.2 |
| 7.5° | 125.2 | 114.2 | 107.2 | 103.3 | 102.3 | 101.3 | 101.3 |
| 10° | 108.3 | 98.3 | 92.3 | 89.4 | 88.4 | 88.4 | 88.4 |
| 12.5° | 96.3 | 86.4 | 81.4 | 79.4 | 79.4 | 78.5 | 78.5 |
| 15° | 86.4 | 78.5 | 73.5 | 71.5 | 71.5 | 70.5 | 71.5 |
| 17.5° | 78.5 | 70.5 | 66.5 | 64.5 | 64.5 | 63.6 | 63.6 |
| 20° | 71.5 | 64.5 | 60.6 | 57.6 | 57.6 | 56.6 | 57.6 |
| 22.5° | 65.6 | 58.6 | 53.6 | 51.6 | 50.7 | 49.6 | 50.7 |
| 25° | 59.6 | 52.7 | 47.7 | 44.7 | 43.7 | 43.7 | 42.7 |
| 27.5° | 54.6 | 47.7 | 41.7 | 38.7 | 37.8 | 37.8 | 36.7 |
| 30° | 49.6 | 41.7 | 35.8 | 32.8 | 31.8 | 31.8 | 31.8 |
| 32.5° | 44.7 | 35.8 | 30.8 | 27.8 | 26.8 | 26.8 | 26.8 |
| 35° | 39.8 | 30.8 | 25.8 | 22.9 | 21.8 | 21.8 | 21.8 |
| 37.5° | 33.8 | 25.8 | 19.8 | 17.9 | 16.9 | 15.9 | 15.9 |
| 40° | 28.8 | 19.8 | 14.9 | 12.9 | 10.9 | 10.9 | 10.9 |
| 42.5° | 23.8 | 15.9 | 10.9 | 8.0 | 6.9 | 6.0 | 6.9 |
| 45° | 19.8 | 11.9 | 6.9 | 4.0 | 3.0 | 3.0 | 3.0 |
| 47.5° | 15.9 | 8.0 | 3.0 | 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 | 3.0 | 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° | 3.0 | 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)