

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: P159665

Luminaire Tested: **VTS-F05-LED-E1-T4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159665  
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: MCGRAW-EDISON  
Catalog Number: VTS-F05-LED-E1-T4  
Description: VENTUS LED SITE LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4  
Light Source: (35) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

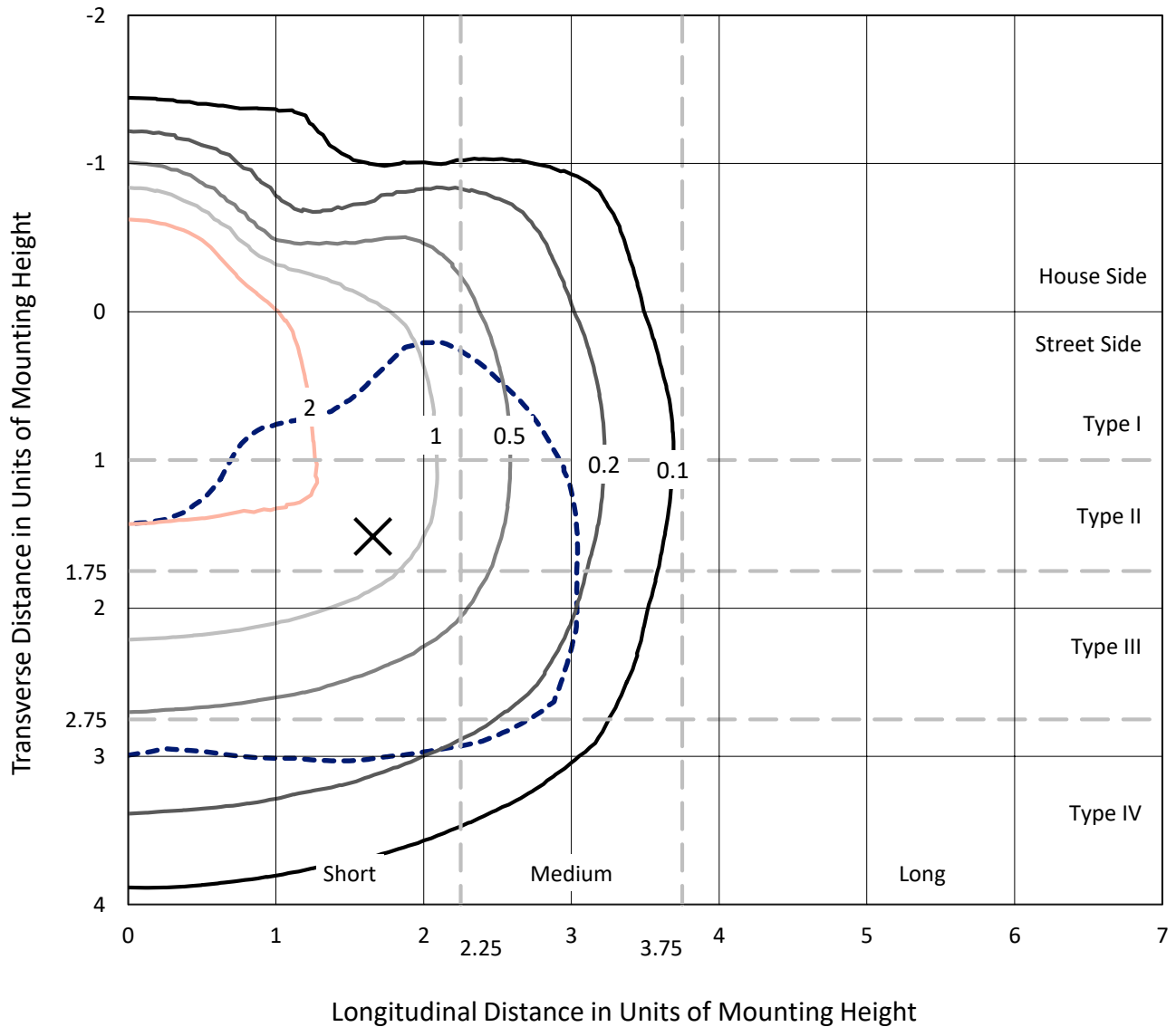
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12285.3 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 133.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

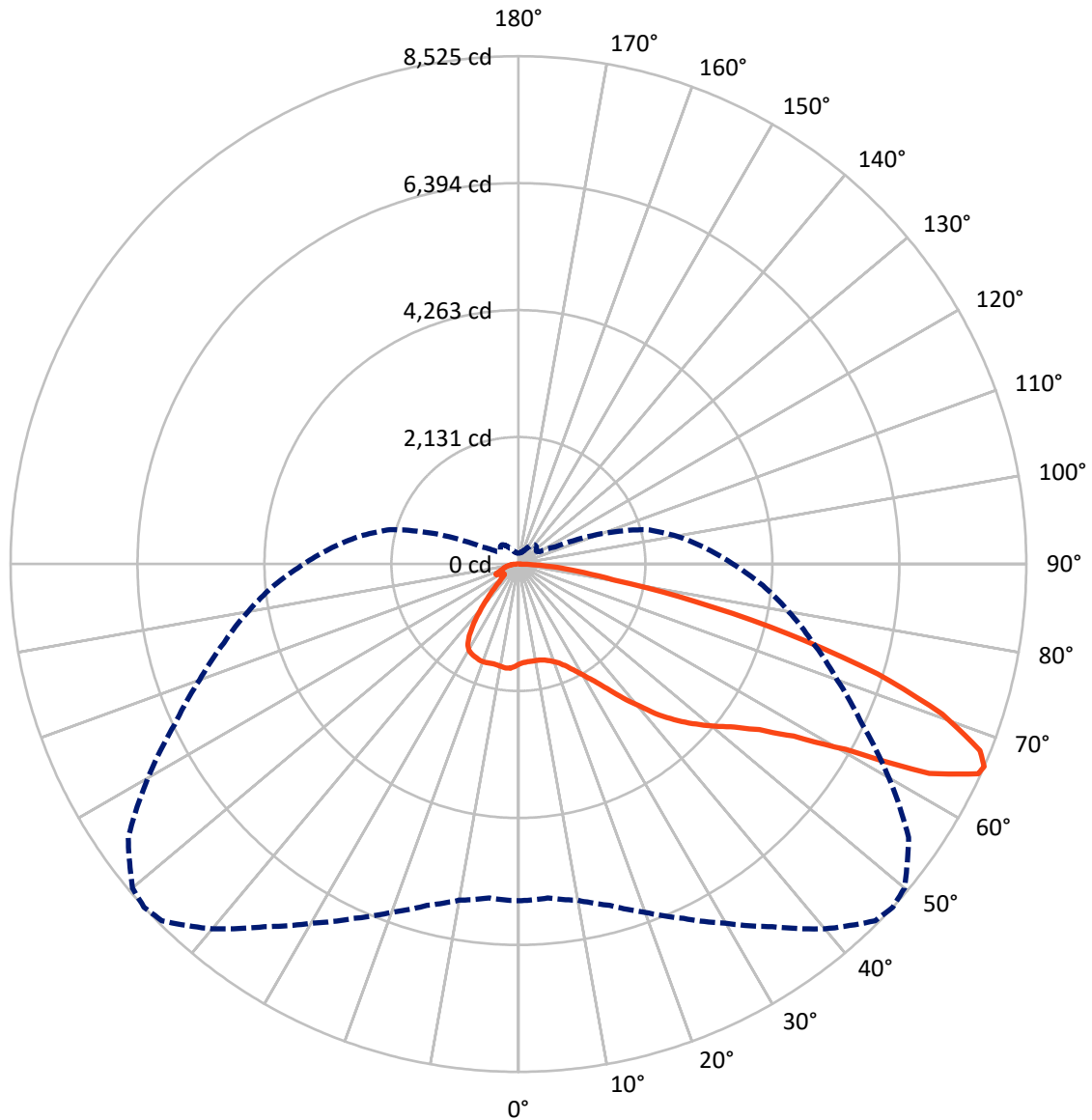
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2543.6   | 0.0    | 2543.6  |
|                    | % Fixture | 20.7     | 0.0    | 20.7    |
| <b>Street Side</b> | Lumens    | 9741.7   | 0.0    | 9741.7  |
|                    | % Fixture | 79.3     | 0.0    | 79.3    |
| <b>Total</b>       | Lumens    | 12285.3  | 0.0    | 12285.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 162.0   | 1.3       |
| 10°-20°   | 485.8   | 4.0       |
| 20°-30°   | 828.9   | 6.7       |
| 30°-40°   | 1251.1  | 10.2      |
| 40°-50°   | 1626.1  | 13.2      |
| 50°-60°   | 2230.9  | 18.2      |
| 60°-70°   | 3431.8  | 27.9      |
| 70°-80°   | 1983.8  | 16.1      |
| 80°-90°   | 285.0   | 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°    | 12285.3 | 100.0     |
| 0°-180°   | 12285.3 | 100.0     |



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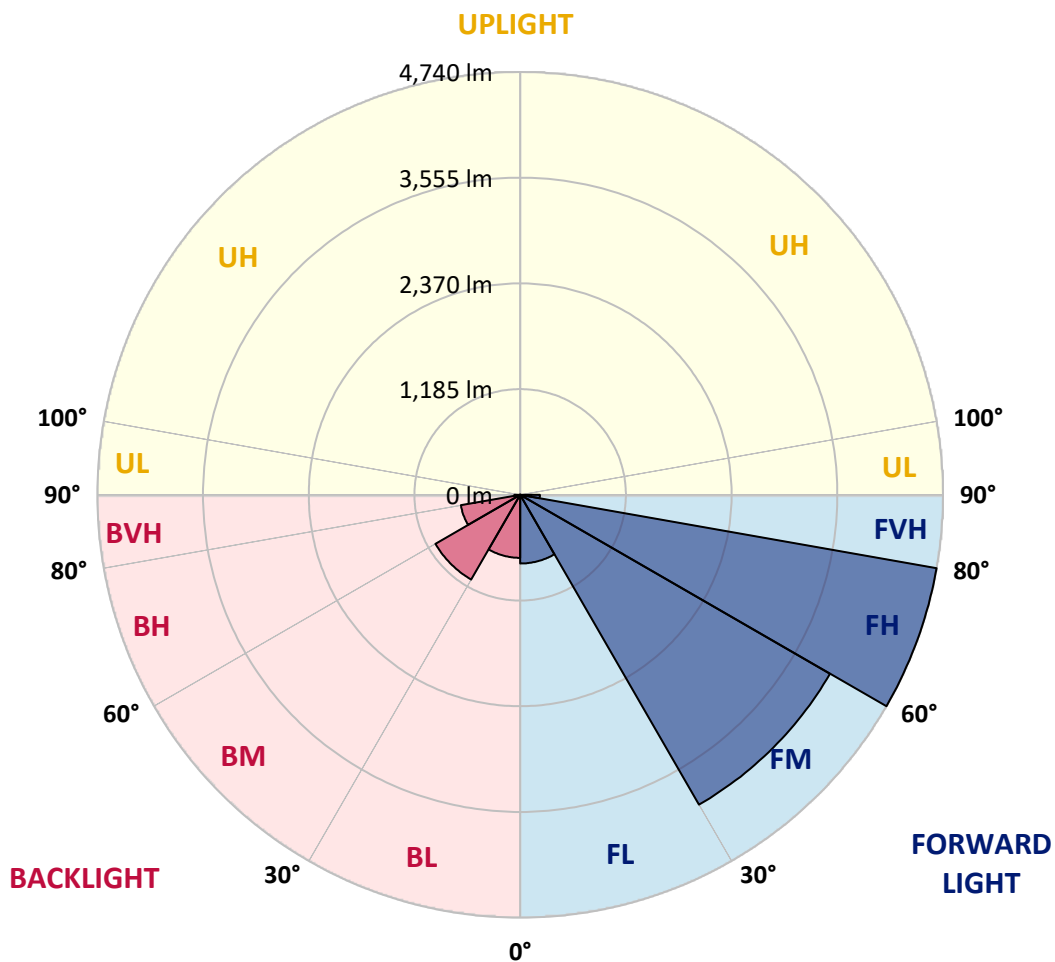
CATALOG NUMBER: VTS-F05-LED-E1-T4

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 770.0  | 6.3       |                         |      |         |
| FM   | (30°-60°)   | 4010.6 | 32.6      |                         |      |         |
| FH   | (60°-80°)   | 4740.5 | 38.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 220.5  | 1.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 706.6  | 5.8       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1097.4 | 8.9       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 675.1  | 5.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 64.4   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 47.5°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 |
| 2.5°  | 1637.8 | 1638.7 | 1639.5 | 1639.5 | 1642.0 | 1642.0 | 1646.1 | 1648.6 | 1649.4 | 1654.4 | 1657.7 |
| 5°    | 1607.3 | 1606.5 | 1607.3 | 1608.9 | 1613.1 | 1616.4 | 1624.6 | 1630.4 | 1635.4 | 1643.6 | 1647.7 |
| 7.5°  | 1594.1 | 1595.7 | 1597.4 | 1598.2 | 1601.5 | 1609.8 | 1617.2 | 1623.0 | 1632.9 | 1642.8 | 1646.9 |
| 10°   | 1611.4 | 1613.9 | 1611.4 | 1613.1 | 1613.1 | 1620.5 | 1623.8 | 1627.9 | 1635.4 | 1644.4 | 1646.9 |
| 12.5° | 1651.9 | 1656.8 | 1651.9 | 1647.7 | 1644.4 | 1651.0 | 1649.4 | 1646.1 | 1650.2 | 1652.7 | 1652.7 |
| 15°   | 1718.7 | 1718.7 | 1715.4 | 1709.7 | 1701.4 | 1702.2 | 1694.8 | 1687.4 | 1684.1 | 1678.3 | 1674.2 |
| 17.5° | 1784.0 | 1782.3 | 1774.9 | 1767.4 | 1761.7 | 1759.2 | 1748.5 | 1738.6 | 1727.0 | 1717.9 | 1708.0 |
| 20°   | 1847.5 | 1854.1 | 1845.0 | 1834.3 | 1825.2 | 1819.5 | 1811.2 | 1791.4 | 1777.4 | 1762.5 | 1752.6 |
| 22.5° | 1957.3 | 1951.5 | 1941.6 | 1925.9 | 1916.9 | 1907.0 | 1889.6 | 1868.2 | 1846.7 | 1828.5 | 1816.2 |
| 25°   | 2070.4 | 2064.6 | 2050.6 | 2039.0 | 2025.8 | 2017.6 | 1998.6 | 1972.2 | 1951.5 | 1923.5 | 1907.0 |
| 27.5° | 2191.8 | 2186.8 | 2170.3 | 2161.2 | 2152.1 | 2142.2 | 2125.7 | 2098.5 | 2079.5 | 2047.3 | 2030.0 |
| 30°   | 2328.8 | 2328.0 | 2305.7 | 2304.0 | 2290.8 | 2280.1 | 2268.5 | 2245.4 | 2226.4 | 2194.2 | 2173.6 |
| 32.5° | 2474.9 | 2471.6 | 2455.9 | 2451.0 | 2460.1 | 2452.6 | 2436.1 | 2412.2 | 2387.4 | 2368.4 | 2345.3 |
| 35°   | 2683.0 | 2677.2 | 2668.1 | 2672.2 | 2678.0 | 2698.6 | 2673.0 | 2652.4 | 2622.7 | 2597.9 | 2565.7 |
| 37.5° | 2834.9 | 2826.6 | 2837.3 | 2860.4 | 2893.5 | 2909.1 | 2931.4 | 2932.3 | 2918.2 | 2885.2 | 2857.1 |
| 40°   | 2974.4 | 2971.1 | 2995.8 | 3028.0 | 3089.1 | 3133.7 | 3175.8 | 3196.4 | 3201.4 | 3179.9 | 3137.8 |
| 42.5° | 3092.4 | 3102.3 | 3135.3 | 3184.9 | 3270.7 | 3338.4 | 3416.8 | 3465.6 | 3496.1 | 3484.5 | 3465.6 |
| 45°   | 3232.8 | 3237.7 | 3278.2 | 3340.9 | 3422.6 | 3534.9 | 3638.1 | 3720.6 | 3774.3 | 3773.5 | 3752.0 |
| 47.5° | 3408.6 | 3409.4 | 3444.1 | 3517.6 | 3605.1 | 3719.0 | 3849.4 | 3959.2 | 4030.2 | 4033.5 | 4017.0 |
| 50°   | 3617.5 | 3615.8 | 3653.8 | 3723.1 | 3816.4 | 3926.2 | 4064.9 | 4201.9 | 4301.0 | 4301.0 | 4277.0 |
| 52.5° | 3886.6 | 3883.3 | 3903.9 | 3965.0 | 4055.0 | 4170.6 | 4308.4 | 4466.9 | 4574.2 | 4597.3 | 4545.3 |
| 55°   | 4245.7 | 4250.6 | 4255.6 | 4309.2 | 4386.0 | 4477.6 | 4636.1 | 4782.3 | 4925.9 | 4939.1 | 4908.6 |
| 57.5° | 4660.9 | 4644.4 | 4679.9 | 4767.4 | 4854.9 | 4969.7 | 5081.9 | 5254.5 | 5424.5 | 5453.4 | 5449.3 |
| 60°   | 5309.8 | 5288.3 | 5324.6 | 5436.1 | 5532.7 | 5713.5 | 5905.8 | 6128.7 | 6330.1 | 6389.6 | 6317.7 |
| 62.5° | 5906.6 | 5933.0 | 5982.6 | 6112.2 | 6252.5 | 6493.6 | 6782.5 | 7164.7 | 7546.9 | 7755.0 | 7740.1 |
| 65°   | 5853.0 | 5828.2 | 5923.1 | 6099.8 | 6354.1 | 6661.2 | 7020.3 | 7480.9 | 8031.5 | 8449.2 | 8486.4 |
| 66°   | 5654.0 | 5628.4 | 5730.8 | 5933.0 | 6223.6 | 6565.4 | 6964.1 | 7433.0 | 7996.0 | 8468.2 | 8525.2 |
| 67.5° | 5325.5 | 5299.9 | 5415.4 | 5599.5 | 5899.2 | 6329.3 | 6760.2 | 7272.9 | 7858.2 | 8310.6 | 8356.8 |
| 70°   | 4691.5 | 4656.8 | 4746.8 | 4954.8 | 5197.5 | 5613.6 | 6023.9 | 6567.1 | 7168.0 | 7529.6 | 7546.9 |
| 72.5° | 3974.1 | 3893.2 | 3988.9 | 4149.1 | 4322.4 | 4666.7 | 5024.1 | 5395.6 | 5874.4 | 6208.8 | 6304.5 |
| 75°   | 2883.6 | 2925.7 | 2953.7 | 3059.4 | 3174.1 | 3458.9 | 3668.6 | 3979.9 | 4350.5 | 4592.4 | 4669.2 |
| 77.5° | 1529.7 | 1593.3 | 1632.9 | 1738.6 | 1928.4 | 2145.5 | 2372.6 | 2564.9 | 2808.4 | 2943.8 | 3037.9 |
| 80°   | 858.5  | 903.1  | 967.5  | 1050.9 | 1143.4 | 1310.1 | 1444.7 | 1543.7 | 1578.4 | 1602.3 | 1623.8 |
| 82.5° | 472.2  | 585.3  | 681.1  | 738.8  | 793.3  | 860.2  | 940.3  | 1022.8 | 1049.2 | 1009.6 | 989.0  |
| 85°   | 73.5   | 108.1  | 329.4  | 402.0  | 437.5  | 488.7  | 546.5  | 607.6  | 608.4  | 523.4  | 571.3  |
| 87.5° | 20.6   | 23.1   | 47.1   | 71.0   | 69.3   | 56.1   | 69.3   | 126.3  | 74.3   | 37.1   | 42.9   |
| 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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CATALOG NUMBER: VTS-F05-LED-E1-T4

**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 |
| 2.5°  | 1659.3 | 1661.0 | 1665.1 | 1669.2 | 1673.3 | 1677.5 | 1679.9 | 1684.1 | 1687.4 | 1692.3 | 1698.1 |
| 5°    | 1652.7 | 1656.8 | 1664.3 | 1673.3 | 1681.6 | 1689.0 | 1694.8 | 1703.1 | 1710.5 | 1717.1 | 1727.0 |
| 7.5°  | 1652.7 | 1661.0 | 1673.3 | 1683.2 | 1690.7 | 1699.8 | 1708.8 | 1717.1 | 1725.3 | 1732.0 | 1738.6 |
| 10°   | 1653.5 | 1661.8 | 1674.2 | 1685.7 | 1694.0 | 1703.9 | 1711.3 | 1718.7 | 1727.8 | 1732.0 | 1740.2 |
| 12.5° | 1656.8 | 1660.1 | 1669.2 | 1680.8 | 1690.7 | 1700.6 | 1708.0 | 1715.4 | 1725.3 | 1727.0 | 1732.8 |
| 15°   | 1673.3 | 1668.4 | 1670.9 | 1679.1 | 1689.8 | 1698.1 | 1706.4 | 1712.1 | 1718.7 | 1717.1 | 1722.0 |
| 17.5° | 1703.9 | 1691.5 | 1686.5 | 1687.4 | 1692.3 | 1698.1 | 1701.4 | 1702.2 | 1703.1 | 1695.6 | 1696.5 |
| 20°   | 1745.2 | 1727.8 | 1716.3 | 1710.5 | 1703.9 | 1698.1 | 1689.0 | 1678.3 | 1668.4 | 1653.5 | 1651.9 |
| 22.5° | 1807.1 | 1781.5 | 1769.1 | 1753.4 | 1733.6 | 1708.8 | 1686.5 | 1660.1 | 1638.7 | 1616.4 | 1608.1 |
| 25°   | 1897.1 | 1870.6 | 1857.4 | 1832.7 | 1797.2 | 1761.7 | 1729.5 | 1694.0 | 1662.6 | 1636.2 | 1623.8 |
| 27.5° | 2017.6 | 1991.2 | 1977.1 | 1951.5 | 1907.8 | 1872.3 | 1827.7 | 1789.7 | 1751.8 | 1713.0 | 1697.3 |
| 30°   | 2163.7 | 2140.6 | 2124.9 | 2104.3 | 2066.3 | 2027.5 | 1975.5 | 1916.9 | 1856.6 | 1794.7 | 1764.1 |
| 32.5° | 2336.2 | 2310.6 | 2299.1 | 2275.1 | 2235.5 | 2195.1 | 2137.3 | 2062.2 | 1961.4 | 1864.0 | 1802.9 |
| 35°   | 2551.7 | 2522.8 | 2509.6 | 2478.2 | 2432.0 | 2372.6 | 2310.6 | 2209.9 | 2073.7 | 1938.3 | 1838.4 |
| 37.5° | 2839.8 | 2775.4 | 2731.7 | 2659.8 | 2585.5 | 2502.2 | 2413.8 | 2310.6 | 2149.7 | 1982.1 | 1843.4 |
| 40°   | 3094.9 | 3029.7 | 2945.5 | 2842.3 | 2726.7 | 2612.0 | 2511.2 | 2394.0 | 2219.0 | 2013.5 | 1827.7 |
| 42.5° | 3411.9 | 3296.3 | 3161.8 | 3022.2 | 2868.7 | 2727.5 | 2607.8 | 2470.0 | 2266.1 | 2021.7 | 1784.0 |
| 45°   | 3701.7 | 3563.8 | 3383.8 | 3198.1 | 3007.4 | 2829.9 | 2695.3 | 2541.8 | 2306.5 | 2021.7 | 1731.1 |
| 47.5° | 3965.8 | 3800.7 | 3585.3 | 3354.1 | 3132.0 | 2938.0 | 2785.3 | 2615.3 | 2363.5 | 2047.3 | 1715.4 |
| 50°   | 4210.2 | 4020.3 | 3775.1 | 3506.8 | 3257.5 | 3050.3 | 2886.0 | 2709.4 | 2450.2 | 2113.3 | 1753.4 |
| 52.5° | 4467.7 | 4266.3 | 3967.5 | 3682.7 | 3407.8 | 3185.7 | 3010.7 | 2825.8 | 2562.4 | 2217.4 | 1820.3 |
| 55°   | 4805.4 | 4569.3 | 4230.0 | 3916.3 | 3614.1 | 3369.0 | 3170.0 | 2965.3 | 2685.4 | 2334.6 | 1902.0 |
| 57.5° | 5337.8 | 4995.3 | 4656.0 | 4248.2 | 3963.3 | 3640.6 | 3422.6 | 3187.4 | 2885.2 | 2487.3 | 2025.0 |
| 60°   | 6269.9 | 5848.8 | 5441.0 | 4972.1 | 4620.5 | 4282.8 | 3953.4 | 3646.3 | 3282.3 | 2832.4 | 2295.0 |
| 62.5° | 7600.6 | 7173.0 | 6532.4 | 5958.6 | 5427.8 | 4980.4 | 4551.1 | 4160.6 | 3693.4 | 3201.4 | 2627.6 |
| 65°   | 8395.6 | 7906.1 | 7142.4 | 6371.4 | 5726.7 | 5171.9 | 4680.7 | 4202.7 | 3698.4 | 3218.7 | 2728.4 |
| 66°   | 8459.2 | 7996.0 | 7180.4 | 6365.6 | 5696.1 | 5120.7 | 4609.7 | 4115.2 | 3598.5 | 3139.5 | 2695.3 |
| 67.5° | 8341.1 | 7942.4 | 7102.8 | 6253.4 | 5569.0 | 4947.4 | 4422.3 | 3903.9 | 3384.7 | 2959.5 | 2585.5 |
| 70°   | 7508.1 | 7220.0 | 6500.2 | 5704.4 | 5021.7 | 4473.5 | 3919.6 | 3421.0 | 2929.0 | 2571.5 | 2294.1 |
| 72.5° | 6155.1 | 5790.2 | 5286.7 | 4751.7 | 4214.3 | 3728.1 | 3224.5 | 2800.2 | 2387.4 | 2127.4 | 1930.9 |
| 75°   | 4521.4 | 4192.8 | 3638.1 | 3304.6 | 2949.6 | 2644.2 | 2304.9 | 1902.8 | 1609.8 | 1479.3 | 1431.5 |
| 77.5° | 2866.2 | 2509.6 | 2041.5 | 1673.3 | 1438.9 | 1236.6 | 974.9  | 775.2  | 620.8  | 646.4  | 715.7  |
| 80°   | 1448.0 | 1247.4 | 933.7  | 737.2  | 637.3  | 530.0  | 419.4  | 317.8  | 232.0  | 265.0  | 299.7  |
| 82.5° | 929.5  | 776.0  | 618.3  | 487.1  | 411.1  | 362.4  | 289.8  | 210.5  | 156.8  | 176.7  | 216.3  |
| 85°   | 559.7  | 473.0  | 377.3  | 308.7  | 268.3  | 223.7  | 164.3  | 116.4  | 115.6  | 123.8  | 152.7  |
| 87.5° | 85.0   | 121.4  | 70.2   | 75.1   | 79.3   | 85.0   | 75.1   | 63.6   | 55.3   | 71.8   | 90.8   |
| 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):**

|       | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 |
| 2.5°  | 1703.9 | 1705.5 | 1708.8 | 1713.0 | 1712.1 | 1717.9 | 1721.2 | 1717.9 | 1725.3 | 1725.3 | 1729.5 |
| 5°    | 1735.3 | 1737.7 | 1743.5 | 1747.6 | 1749.3 | 1754.2 | 1755.9 | 1755.1 | 1756.7 | 1757.5 | 1759.2 |
| 7.5°  | 1744.3 | 1750.9 | 1753.4 | 1755.9 | 1756.7 | 1758.4 | 1758.4 | 1756.7 | 1756.7 | 1755.9 | 1757.5 |
| 10°   | 1741.9 | 1744.3 | 1746.0 | 1745.2 | 1745.2 | 1743.5 | 1742.7 | 1741.9 | 1741.9 | 1740.2 | 1742.7 |
| 12.5° | 1733.6 | 1733.6 | 1733.6 | 1732.0 | 1732.0 | 1731.1 | 1731.1 | 1731.1 | 1732.8 | 1733.6 | 1737.7 |
| 15°   | 1717.1 | 1717.1 | 1718.7 | 1717.9 | 1720.4 | 1724.5 | 1729.5 | 1732.8 | 1736.9 | 1737.7 | 1740.2 |
| 17.5° | 1691.5 | 1692.3 | 1697.3 | 1708.0 | 1718.7 | 1731.1 | 1740.2 | 1742.7 | 1739.4 | 1731.1 | 1725.3 |
| 20°   | 1646.9 | 1657.7 | 1677.5 | 1703.1 | 1727.0 | 1742.7 | 1746.8 | 1736.9 | 1721.2 | 1699.8 | 1688.2 |
| 22.5° | 1607.3 | 1628.8 | 1664.3 | 1706.4 | 1736.1 | 1746.8 | 1734.4 | 1711.3 | 1683.2 | 1658.5 | 1641.1 |
| 25°   | 1623.0 | 1647.7 | 1684.9 | 1721.2 | 1740.2 | 1734.4 | 1709.7 | 1676.6 | 1646.9 | 1618.0 | 1590.0 |
| 27.5° | 1689.0 | 1713.8 | 1740.2 | 1750.9 | 1744.3 | 1722.9 | 1688.2 | 1652.7 | 1613.1 | 1571.8 | 1537.1 |
| 30°   | 1751.8 | 1765.8 | 1767.4 | 1756.7 | 1732.8 | 1698.1 | 1657.7 | 1616.4 | 1566.0 | 1516.5 | 1472.7 |
| 32.5° | 1771.6 | 1755.1 | 1725.3 | 1694.8 | 1661.8 | 1626.3 | 1579.2 | 1524.7 | 1471.1 | 1414.9 | 1366.2 |
| 35°   | 1765.8 | 1698.9 | 1625.5 | 1560.2 | 1520.6 | 1480.2 | 1437.2 | 1364.6 | 1304.3 | 1256.4 | 1225.1 |
| 37.5° | 1713.8 | 1591.6 | 1478.5 | 1383.6 | 1321.7 | 1273.8 | 1210.2 | 1150.0 | 1097.9 | 1076.5 | 1050.9 |
| 40°   | 1641.1 | 1454.6 | 1297.7 | 1164.8 | 1100.4 | 1039.3 | 968.3  | 922.1  | 907.3  | 887.4  | 888.3  |
| 42.5° | 1537.1 | 1294.4 | 1092.2 | 939.4  | 869.3  | 802.4  | 752.1  | 724.8  | 725.6  | 709.1  | 712.4  |
| 45°   | 1427.3 | 1133.4 | 879.2  | 727.3  | 657.9  | 601.0  | 572.9  | 564.7  | 565.5  | 566.3  | 561.4  |
| 47.5° | 1360.5 | 1008.0 | 705.0  | 551.5  | 490.4  | 458.2  | 443.3  | 439.2  | 440.0  | 440.8  | 435.1  |
| 50°   | 1350.6 | 942.7  | 588.6  | 421.8  | 382.2  | 364.1  | 356.6  | 352.5  | 352.5  | 349.2  | 344.2  |
| 52.5° | 1378.6 | 926.2  | 531.6  | 365.7  | 327.7  | 311.2  | 305.4  | 302.1  | 297.2  | 290.6  | 281.5  |
| 55°   | 1423.2 | 941.1  | 514.3  | 346.7  | 309.6  | 293.1  | 285.6  | 284.0  | 275.7  | 263.3  | 248.5  |
| 57.5° | 1505.8 | 994.8  | 525.9  | 351.7  | 312.9  | 298.0  | 293.1  | 291.4  | 279.9  | 260.9  | 241.9  |
| 60°   | 1742.7 | 1150.8 | 583.6  | 379.7  | 336.8  | 324.4  | 324.4  | 322.0  | 306.3  | 279.0  | 251.8  |
| 62.5° | 2069.6 | 1379.5 | 662.1  | 418.5  | 369.8  | 368.2  | 382.2  | 383.0  | 355.0  | 311.2  | 268.3  |
| 65°   | 2227.3 | 1486.8 | 689.3  | 426.8  | 378.9  | 397.9  | 426.0  | 426.0  | 386.3  | 326.1  | 270.8  |
| 66°   | 2228.1 | 1484.3 | 681.1  | 416.9  | 369.0  | 393.8  | 422.7  | 422.7  | 381.4  | 322.0  | 266.6  |
| 67.5° | 2171.1 | 1438.1 | 653.8  | 398.7  | 346.7  | 369.8  | 395.4  | 394.6  | 357.5  | 305.4  | 255.1  |
| 70°   | 1947.4 | 1272.1 | 576.2  | 369.0  | 320.3  | 321.1  | 330.2  | 324.4  | 299.7  | 264.2  | 232.0  |
| 72.5° | 1679.1 | 1064.1 | 499.4  | 350.0  | 299.7  | 284.0  | 276.6  | 271.6  | 255.9  | 234.4  | 214.6  |
| 75°   | 1287.8 | 826.4  | 435.1  | 332.7  | 281.5  | 254.3  | 244.4  | 240.2  | 229.5  | 217.1  | 201.4  |
| 77.5° | 789.2  | 566.3  | 369.0  | 304.6  | 260.9  | 236.1  | 225.4  | 217.1  | 206.4  | 194.8  | 184.1  |
| 80°   | 340.1  | 341.8  | 295.5  | 258.4  | 227.0  | 198.1  | 184.1  | 174.2  | 168.4  | 164.3  | 158.5  |
| 82.5° | 237.8  | 245.2  | 225.4  | 200.6  | 173.4  | 152.7  | 140.3  | 137.9  | 138.7  | 138.7  | 137.0  |
| 85°   | 178.3  | 175.0  | 157.7  | 143.6  | 131.3  | 118.1  | 108.1  | 107.3  | 110.6  | 110.6  | 108.1  |
| 87.5° | 103.2  | 104.0  | 89.2   | 83.4   | 86.7   | 74.3   | 67.7   | 68.5   | 76.8   | 75.9   | 74.3   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 |
| 2.5°  | 1729.5 | 1732.0 | 1731.1 | 1733.6 | 1731.1 |
| 5°    | 1761.7 | 1760.8 | 1760.0 | 1763.3 | 1759.2 |
| 7.5°  | 1756.7 | 1757.5 | 1757.5 | 1757.5 | 1756.7 |
| 10°   | 1744.3 | 1747.6 | 1749.3 | 1752.6 | 1751.8 |
| 12.5° | 1740.2 | 1745.2 | 1750.1 | 1755.1 | 1755.9 |
| 15°   | 1741.0 | 1744.3 | 1746.8 | 1749.3 | 1750.1 |
| 17.5° | 1719.6 | 1718.7 | 1716.3 | 1714.6 | 1713.0 |
| 20°   | 1675.8 | 1671.7 | 1667.6 | 1661.0 | 1664.3 |
| 22.5° | 1621.3 | 1609.8 | 1596.6 | 1585.8 | 1585.0 |
| 25°   | 1557.8 | 1536.3 | 1514.8 | 1500.8 | 1495.9 |
| 27.5° | 1501.6 | 1476.0 | 1453.7 | 1441.4 | 1438.1 |
| 30°   | 1434.8 | 1411.6 | 1391.8 | 1381.1 | 1374.5 |
| 32.5° | 1335.7 | 1317.5 | 1292.8 | 1284.5 | 1283.7 |
| 35°   | 1197.8 | 1183.8 | 1166.5 | 1163.2 | 1159.0 |
| 37.5° | 1041.8 | 1036.9 | 1028.6 | 1018.7 | 1017.0 |
| 40°   | 875.1  | 878.4  | 875.9  | 870.1  | 861.0  |
| 42.5° | 714.1  | 719.9  | 720.7  | 724.8  | 728.9  |
| 45°   | 568.8  | 573.7  | 573.7  | 577.9  | 582.8  |
| 47.5° | 436.7  | 433.4  | 435.9  | 440.0  | 442.5  |
| 50°   | 330.2  | 327.7  | 323.6  | 320.3  | 317.0  |
| 52.5° | 265.8  | 260.9  | 249.3  | 246.0  | 242.7  |
| 55°   | 234.4  | 225.4  | 217.1  | 213.8  | 213.8  |
| 57.5° | 225.4  | 213.8  | 204.7  | 200.6  | 199.0  |
| 60°   | 227.0  | 210.5  | 199.0  | 192.3  | 189.9  |
| 62.5° | 234.4  | 211.3  | 195.6  | 188.2  | 185.7  |
| 65°   | 233.6  | 209.7  | 194.8  | 186.6  | 184.1  |
| 66°   | 229.5  | 207.2  | 193.2  | 185.7  | 184.1  |
| 67.5° | 222.9  | 203.9  | 191.5  | 184.9  | 182.4  |
| 70°   | 209.7  | 197.3  | 188.2  | 182.4  | 180.0  |
| 72.5° | 199.0  | 190.7  | 182.4  | 175.8  | 174.2  |
| 75°   | 189.0  | 180.8  | 173.4  | 170.1  | 167.6  |
| 77.5° | 174.2  | 166.8  | 162.6  | 159.3  | 157.7  |
| 80°   | 154.4  | 149.4  | 144.5  | 141.2  | 138.7  |
| 82.5° | 134.6  | 128.0  | 123.0  | 120.5  | 118.9  |
| 85°   | 109.8  | 105.7  | 98.2   | 93.3   | 92.5   |
| 87.5° | 73.5   | 69.3   | 66.9   | 62.7   | 58.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)