

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: STREETWORKS

Report Number: P161942

Luminaire Tested: **OVF-F04-LED-E-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P161942
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33703)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVF-F04-LED-E-U-SL4
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9516.7 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

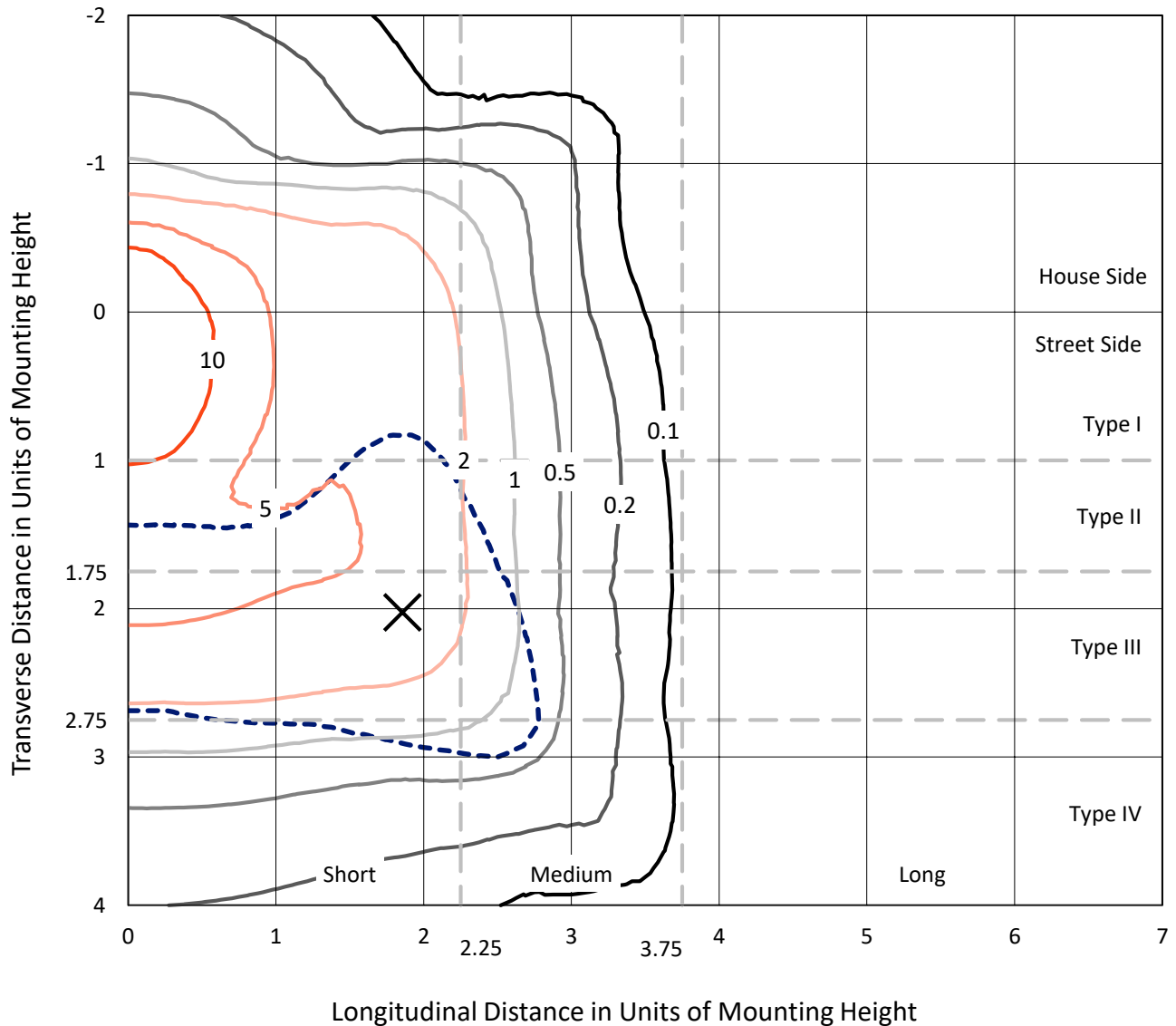
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

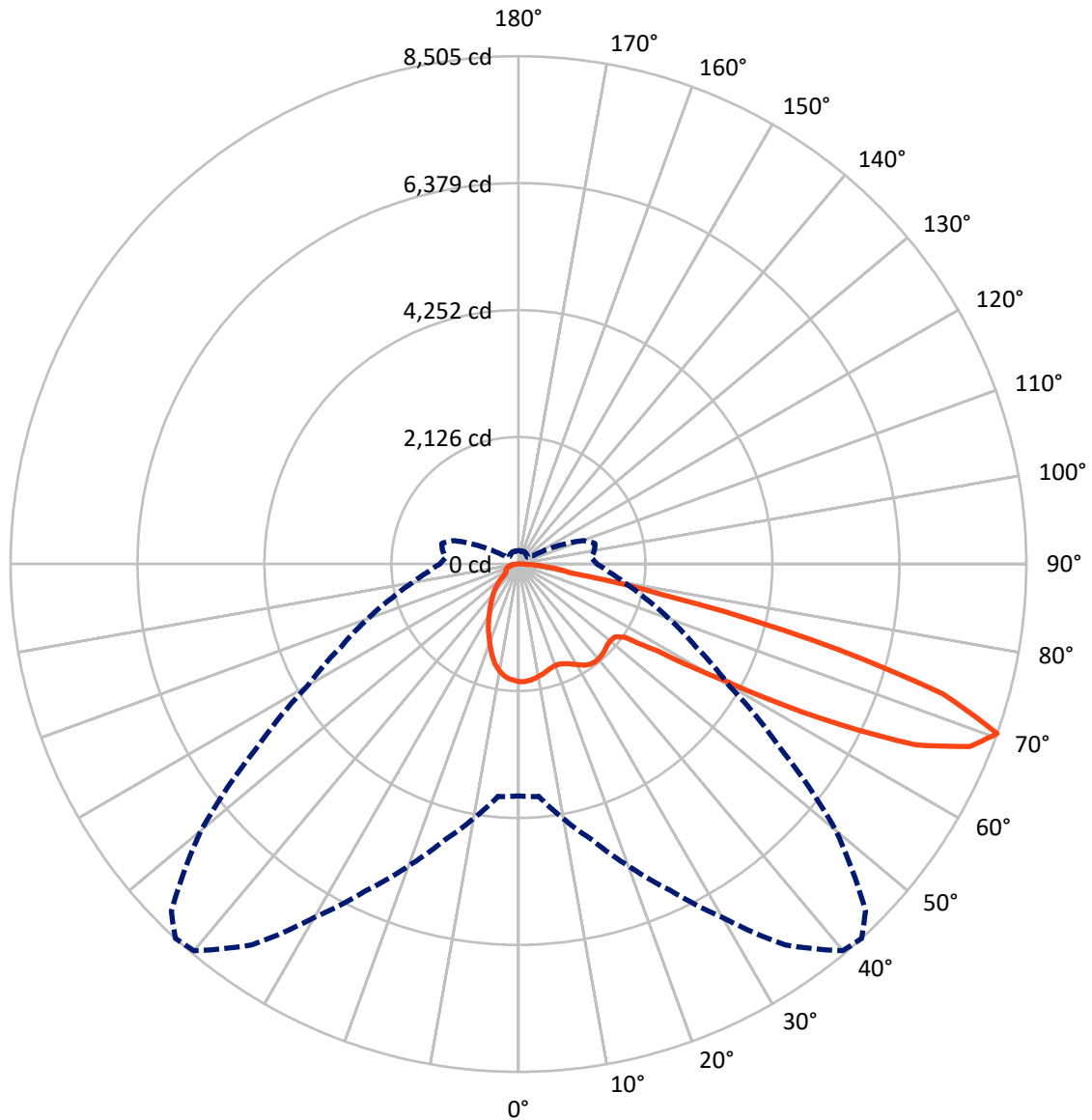


Based on 10 foot mounting height. Maximum calculated value = 19.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 42.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2055.8 | 0.0 | 2055.8 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 7460.9 | 0.0 | 7460.9 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 9516.7 | 0.0 | 9516.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 183.1 | 1.9 |
| 10°-20° | 493.3 | 5.2 |
| 20°-30° | 719.5 | 7.6 |
| 30°-40° | 917.7 | 9.6 |
| 40°-50° | 1071.1 | 11.3 |
| 50°-60° | 1638.1 | 17.2 |
| 60°-70° | 2969.4 | 31.2 |
| 70°-80° | 1320.3 | 13.9 |
| 80°-90° | 204.3 | 2.1 |
| 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° | 9516.7 | 100.0 |
| 0°-180° | 9516.7 | 100.0 |



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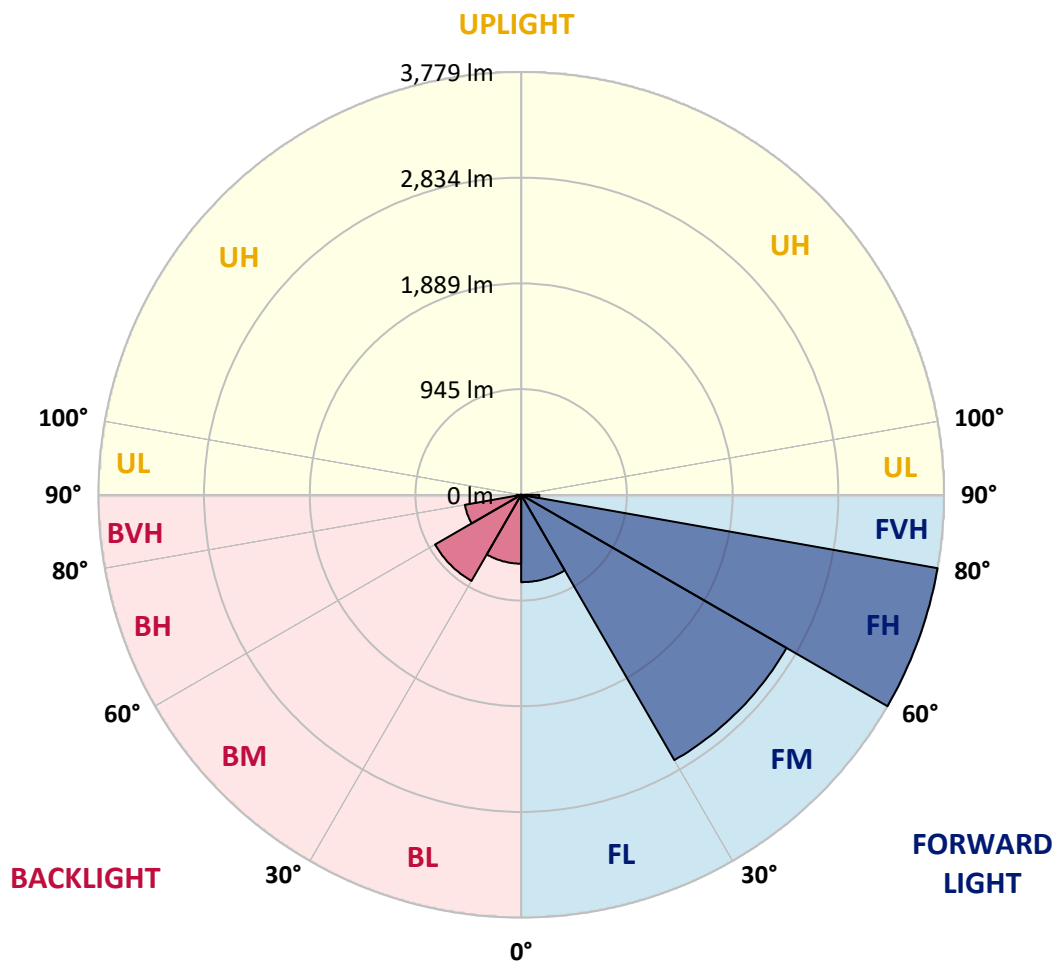
CATALOG NUMBER: OVF-F04-LED-E-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 780.6 | 8.2 | | | |
| FM (30°-60°) | 2738.2 | 28.8 | | | |
| FH (60°-80°) | 3778.9 | 39.7 | | | G2/5000 |
| FVH (80°-90°) | 163.2 | 1.7 | | | G2/225 |
| BL (0°-30°) | 615.3 | 6.5 | B2/1000 | | |
| BM (30°-60°) | 888.7 | 9.3 | B1/1000 | | |
| BH (60°-80°) | 510.7 | 5.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 41.1 | 0.4 | | | 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° | 42.5° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1968.1 | 1968.1 | 1968.1 | 1968.1 | 1968.1 | 1968.1 | 1968.1 | 1968.1 | 1968.1 | 1968.1 | 1968.1 |
| 2.5° | 1977.3 | 1975.3 | 1976.6 | 1978.0 | 1978.0 | 1978.6 | 1972.7 | 1973.3 | 1970.7 | 1971.4 | 1972.0 |
| 5° | 1970.0 | 1968.1 | 1969.4 | 1969.4 | 1969.4 | 1968.7 | 1960.8 | 1960.1 | 1956.8 | 1956.8 | 1955.5 |
| 7.5° | 1956.2 | 1948.9 | 1952.9 | 1953.5 | 1952.2 | 1948.9 | 1944.3 | 1939.7 | 1937.7 | 1937.7 | 1933.0 |
| 10° | 1935.0 | 1927.1 | 1929.1 | 1930.4 | 1929.7 | 1923.1 | 1921.2 | 1916.5 | 1911.3 | 1909.3 | 1904.0 |
| 12.5° | 1908.0 | 1902.7 | 1905.3 | 1904.7 | 1904.7 | 1898.7 | 1895.4 | 1888.8 | 1882.2 | 1878.9 | 1872.3 |
| 15° | 1890.8 | 1884.2 | 1886.8 | 1886.8 | 1884.2 | 1878.2 | 1873.6 | 1861.7 | 1850.5 | 1846.5 | 1837.9 |
| 17.5° | 1901.3 | 1894.7 | 1897.4 | 1895.4 | 1890.8 | 1878.2 | 1866.3 | 1847.2 | 1829.4 | 1818.8 | 1807.6 |
| 20° | 1943.6 | 1937.0 | 1939.0 | 1937.7 | 1931.1 | 1910.6 | 1888.8 | 1855.8 | 1822.8 | 1806.9 | 1789.7 |
| 22.5° | 2011.0 | 2005.7 | 2009.0 | 2007.0 | 1996.4 | 1970.0 | 1937.7 | 1890.1 | 1840.6 | 1816.8 | 1792.4 |
| 25° | 2110.7 | 2109.4 | 2114.7 | 2108.7 | 2093.5 | 2053.9 | 2007.0 | 1943.0 | 1878.2 | 1848.5 | 1814.2 |
| 27.5° | 2230.9 | 2219.7 | 2227.6 | 2222.3 | 2211.7 | 2161.6 | 2098.2 | 2016.9 | 1934.4 | 1895.4 | 1854.5 |
| 30° | 2339.2 | 2329.3 | 2343.8 | 2341.2 | 2325.3 | 2273.8 | 2193.9 | 2098.8 | 2005.7 | 1956.2 | 1909.3 |
| 32.5° | 2464.7 | 2452.1 | 2463.4 | 2463.4 | 2439.6 | 2370.2 | 2279.1 | 2170.1 | 2072.4 | 2019.6 | 1963.4 |
| 35° | 2596.1 | 2582.9 | 2593.5 | 2590.2 | 2547.9 | 2456.1 | 2341.8 | 2223.6 | 2116.0 | 2061.8 | 2004.4 |
| 37.5° | 2718.3 | 2716.3 | 2718.9 | 2697.2 | 2638.4 | 2520.8 | 2384.1 | 2252.0 | 2137.8 | 2081.0 | 2020.9 |
| 40° | 2840.5 | 2835.8 | 2824.6 | 2786.3 | 2700.5 | 2559.1 | 2405.9 | 2261.9 | 2139.1 | 2079.7 | 2018.9 |
| 42.5° | 2917.1 | 2908.5 | 2889.3 | 2837.2 | 2729.5 | 2568.4 | 2399.3 | 2246.7 | 2123.3 | 2062.5 | 2003.1 |
| 45° | 2943.5 | 2934.9 | 2911.8 | 2853.0 | 2730.2 | 2553.8 | 2373.5 | 2216.4 | 2093.5 | 2038.1 | 1978.0 |
| 47.5° | 2921.7 | 2916.4 | 2895.3 | 2836.5 | 2709.0 | 2526.8 | 2341.2 | 2186.0 | 2065.1 | 2011.0 | 1954.8 |
| 50° | 2884.7 | 2881.4 | 2862.9 | 2808.8 | 2689.2 | 2510.3 | 2326.0 | 2171.5 | 2057.2 | 2007.0 | 1954.2 |
| 52.5° | 2977.2 | 2967.3 | 2934.2 | 2870.2 | 2730.8 | 2540.0 | 2349.8 | 2193.3 | 2075.7 | 2024.8 | 1970.7 |
| 55° | 4113.8 | 4040.4 | 3876.7 | 3569.6 | 3139.6 | 2806.1 | 2525.4 | 2336.6 | 2209.8 | 2160.2 | 2108.7 |
| 57.5° | 5410.2 | 5333.6 | 5265.5 | 5031.1 | 4520.6 | 3890.5 | 3323.9 | 2992.4 | 2765.2 | 2743.4 | 2722.9 |
| 60° | 5909.4 | 5933.9 | 5927.9 | 5840.8 | 5579.2 | 5280.1 | 4805.9 | 4414.2 | 3980.4 | 3962.5 | 3988.3 |
| 62.5° | 6253.5 | 6274.0 | 6276.6 | 6250.2 | 6165.0 | 6065.3 | 5966.2 | 5840.8 | 5758.2 | 5722.5 | 5492.1 |
| 65° | 6395.5 | 6425.2 | 6490.6 | 6539.5 | 6553.3 | 6587.7 | 6677.5 | 7018.9 | 7303.6 | 7301.6 | 7031.5 |
| 67.5° | 5853.3 | 5889.0 | 6136.6 | 6379.7 | 6583.7 | 6820.2 | 7184.0 | 7739.5 | 8168.1 | 8154.9 | 7933.6 |
| 70° | 3884.6 | 3907.0 | 4327.7 | 4785.4 | 5379.1 | 6035.6 | 6830.7 | 7788.3 | 8452.7 | 8504.9 | 8219.6 |
| 72.5° | 2382.8 | 2434.3 | 2571.7 | 2757.3 | 3074.3 | 3682.5 | 4864.7 | 6501.2 | 7476.0 | 7427.1 | 7199.9 |
| 75° | 1608.8 | 1611.4 | 1607.5 | 1627.3 | 1645.1 | 1767.9 | 2244.1 | 3574.9 | 5064.1 | 5090.5 | 4992.8 |
| 77.5° | 1099.6 | 1114.1 | 1122.1 | 1116.8 | 1134.6 | 1129.3 | 1157.1 | 1225.1 | 1941.0 | 2477.2 | 2276.5 |
| 80° | 960.9 | 966.9 | 975.4 | 962.9 | 929.9 | 911.4 | 937.1 | 912.7 | 859.9 | 888.3 | 850.6 |
| 82.5° | 608.2 | 626.1 | 628.1 | 671.6 | 736.4 | 739.0 | 772.0 | 747.6 | 680.2 | 636.0 | 581.8 |
| 85° | 437.2 | 443.8 | 455.7 | 458.3 | 435.9 | 416.7 | 428.6 | 408.1 | 367.9 | 344.1 | 304.5 |
| 87.5° | 254.9 | 261.5 | 273.4 | 266.1 | 243.7 | 216.0 | 194.8 | 167.7 | 132.7 | 124.2 | 109.6 |
| 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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CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1968.1 | 1968.1 | 1968.1 | 1968.1 | 1968.1 | 1968.1 | 1968.1 | 1968.1 | 1968.1 | 1968.1 | 1968.1 |
| 2.5° | 1972.7 | 1969.4 | 1966.7 | 1965.4 | 1968.1 | 1965.4 | 1962.8 | 1961.4 | 1958.8 | 1959.5 | 1956.2 |
| 5° | 1954.2 | 1949.6 | 1945.6 | 1942.3 | 1944.9 | 1940.3 | 1936.4 | 1933.7 | 1930.4 | 1929.7 | 1926.4 |
| 7.5° | 1928.4 | 1921.2 | 1915.9 | 1909.9 | 1903.3 | 1899.4 | 1894.7 | 1890.1 | 1882.9 | 1882.2 | 1880.9 |
| 10° | 1894.7 | 1888.8 | 1878.2 | 1869.0 | 1859.7 | 1849.8 | 1839.9 | 1832.7 | 1824.1 | 1820.8 | 1816.2 |
| 12.5° | 1861.1 | 1849.2 | 1836.6 | 1822.1 | 1810.9 | 1795.0 | 1781.8 | 1767.9 | 1755.4 | 1747.5 | 1738.9 |
| 15° | 1821.4 | 1808.9 | 1791.1 | 1777.2 | 1761.3 | 1743.5 | 1726.3 | 1705.9 | 1685.4 | 1672.8 | 1661.0 |
| 17.5° | 1787.1 | 1771.2 | 1756.7 | 1736.9 | 1721.1 | 1700.6 | 1674.8 | 1653.0 | 1628.6 | 1608.1 | 1586.3 |
| 20° | 1760.7 | 1742.8 | 1725.7 | 1707.8 | 1688.7 | 1665.6 | 1637.2 | 1606.1 | 1575.1 | 1546.0 | 1513.7 |
| 22.5° | 1750.1 | 1721.7 | 1702.6 | 1686.1 | 1666.2 | 1639.8 | 1608.1 | 1569.8 | 1531.5 | 1494.5 | 1456.9 |
| 25° | 1759.4 | 1717.1 | 1687.4 | 1668.9 | 1651.0 | 1624.0 | 1588.3 | 1544.7 | 1499.8 | 1452.9 | 1408.0 |
| 27.5° | 1784.5 | 1731.0 | 1688.7 | 1659.6 | 1639.2 | 1612.7 | 1573.1 | 1527.6 | 1476.7 | 1423.9 | 1375.7 |
| 30° | 1820.8 | 1754.1 | 1701.2 | 1659.6 | 1629.3 | 1598.9 | 1555.9 | 1504.4 | 1450.9 | 1395.5 | 1341.3 |
| 32.5° | 1860.4 | 1779.8 | 1716.4 | 1661.6 | 1614.7 | 1576.4 | 1531.5 | 1481.3 | 1424.5 | 1365.7 | 1307.6 |
| 35° | 1890.1 | 1798.3 | 1723.0 | 1654.4 | 1594.3 | 1546.0 | 1497.8 | 1449.0 | 1393.5 | 1334.0 | 1275.9 |
| 37.5° | 1902.7 | 1805.6 | 1721.7 | 1639.2 | 1565.9 | 1513.0 | 1462.8 | 1414.0 | 1360.5 | 1304.3 | 1250.8 |
| 40° | 1903.3 | 1805.6 | 1713.8 | 1618.7 | 1536.1 | 1478.7 | 1425.8 | 1380.3 | 1330.1 | 1281.9 | 1234.3 |
| 42.5° | 1890.8 | 1796.3 | 1699.3 | 1599.5 | 1514.3 | 1449.6 | 1395.5 | 1348.6 | 1308.3 | 1265.4 | 1225.1 |
| 45° | 1868.3 | 1777.9 | 1686.1 | 1589.0 | 1506.4 | 1442.4 | 1384.2 | 1340.0 | 1303.7 | 1265.4 | 1230.4 |
| 47.5° | 1851.2 | 1767.3 | 1686.7 | 1604.2 | 1525.6 | 1459.5 | 1396.8 | 1349.9 | 1318.9 | 1288.5 | 1263.4 |
| 50° | 1854.5 | 1771.2 | 1694.6 | 1616.0 | 1538.8 | 1472.1 | 1411.3 | 1371.0 | 1352.5 | 1342.6 | 1336.7 |
| 52.5° | 1871.6 | 1787.1 | 1729.0 | 1676.8 | 1651.7 | 1610.8 | 1577.1 | 1546.7 | 1551.3 | 1527.6 | 1497.2 |
| 55° | 2048.6 | 2020.2 | 2086.9 | 2135.1 | 2158.9 | 2200.5 | 2260.6 | 2203.2 | 2195.2 | 2121.9 | 1904.0 |
| 57.5° | 2750.6 | 2818.0 | 2920.4 | 2993.0 | 3000.3 | 2987.7 | 2938.2 | 2890.7 | 2813.4 | 2703.1 | 2398.0 |
| 60° | 3928.2 | 3912.3 | 3817.2 | 3689.8 | 3590.7 | 3460.6 | 3329.8 | 3219.5 | 3095.4 | 2926.3 | 2601.4 |
| 62.5° | 5166.5 | 4784.7 | 4445.9 | 4157.3 | 3912.3 | 3695.0 | 3497.6 | 3331.8 | 3161.4 | 2918.4 | 2572.3 |
| 65° | 6166.3 | 5432.0 | 4834.9 | 4370.7 | 4006.1 | 3699.0 | 3444.1 | 3215.6 | 2987.7 | 2706.4 | 2370.9 |
| 67.5° | 6880.9 | 5715.9 | 4815.1 | 4162.0 | 3650.8 | 3228.1 | 2857.0 | 2596.8 | 2363.0 | 2141.7 | 1990.5 |
| 70° | 6937.7 | 5323.0 | 4073.5 | 3274.4 | 2684.6 | 2188.0 | 1802.9 | 1519.0 | 1315.6 | 1223.8 | 1289.1 |
| 72.5° | 5928.6 | 3938.1 | 2708.4 | 2004.4 | 1591.0 | 1236.3 | 993.9 | 794.5 | 630.7 | 550.1 | 561.4 |
| 75° | 3491.6 | 1890.8 | 1219.8 | 908.7 | 742.3 | 593.1 | 513.1 | 433.2 | 382.4 | 306.4 | 245.0 |
| 77.5° | 1329.4 | 822.2 | 615.5 | 511.2 | 364.6 | 262.2 | 206.7 | 178.3 | 163.8 | 161.8 | 153.2 |
| 80° | 766.1 | 603.0 | 422.0 | 276.1 | 202.1 | 171.0 | 146.6 | 125.5 | 116.9 | 114.9 | 118.2 |
| 82.5° | 484.1 | 375.8 | 231.8 | 177.7 | 147.3 | 126.8 | 105.7 | 91.8 | 84.5 | 81.9 | 86.5 |
| 85° | 250.3 | 188.2 | 141.3 | 121.5 | 112.9 | 103.0 | 84.5 | 70.7 | 70.0 | 73.3 | 84.5 |
| 87.5° | 92.5 | 80.6 | 63.4 | 54.8 | 58.8 | 54.8 | 39.6 | 34.3 | 31.0 | 40.9 | 59.4 |
| 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: OVF-F04-LED-E-U-SL4

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1968.1 | 1968.1 | 1968.1 | 1968.1 | 1968.1 | 1968.1 | 1968.1 | 1968.1 | 1968.1 | 1968.1 | 1968.1 |
| 2.5° | 1956.2 | 1954.8 | 1955.5 | 1954.2 | 1954.2 | 1956.2 | 1953.5 | 1951.5 | 1954.8 | 1954.8 | 1956.8 |
| 5° | 1925.8 | 1927.1 | 1927.1 | 1926.4 | 1927.8 | 1931.1 | 1930.4 | 1930.4 | 1935.7 | 1937.7 | 1940.3 |
| 7.5° | 1877.6 | 1879.6 | 1880.2 | 1882.2 | 1882.9 | 1887.5 | 1890.8 | 1894.7 | 1902.7 | 1904.7 | 1910.6 |
| 10° | 1812.2 | 1810.9 | 1815.5 | 1814.8 | 1820.8 | 1824.7 | 1827.4 | 1836.0 | 1847.9 | 1854.5 | 1860.4 |
| 12.5° | 1734.9 | 1734.9 | 1737.6 | 1738.2 | 1743.5 | 1748.8 | 1752.1 | 1762.7 | 1772.6 | 1781.2 | 1794.4 |
| 15° | 1653.0 | 1650.4 | 1644.4 | 1643.8 | 1645.8 | 1651.0 | 1658.3 | 1666.2 | 1681.4 | 1694.0 | 1705.2 |
| 17.5° | 1567.2 | 1559.3 | 1552.0 | 1542.7 | 1542.1 | 1541.4 | 1545.4 | 1551.3 | 1575.1 | 1587.6 | 1603.5 |
| 20° | 1491.2 | 1474.1 | 1456.9 | 1437.7 | 1426.5 | 1421.2 | 1423.2 | 1431.1 | 1453.6 | 1470.1 | 1486.6 |
| 22.5° | 1423.2 | 1397.4 | 1370.4 | 1340.0 | 1321.5 | 1310.3 | 1311.6 | 1314.9 | 1331.4 | 1341.3 | 1349.9 |
| 25° | 1365.1 | 1329.4 | 1291.8 | 1252.8 | 1227.1 | 1209.9 | 1209.2 | 1209.2 | 1202.0 | 1203.3 | 1198.7 |
| 27.5° | 1325.5 | 1275.9 | 1227.7 | 1182.2 | 1148.5 | 1131.3 | 1108.2 | 1091.7 | 1077.1 | 1057.3 | 1048.7 |
| 30° | 1287.2 | 1236.3 | 1181.5 | 1131.3 | 1091.0 | 1057.3 | 1014.4 | 978.7 | 950.3 | 923.3 | 900.2 |
| 32.5° | 1252.8 | 1200.0 | 1147.8 | 1093.0 | 1037.5 | 979.4 | 923.3 | 882.3 | 842.0 | 800.4 | 772.7 |
| 35° | 1222.4 | 1172.9 | 1120.7 | 1058.7 | 980.7 | 904.8 | 841.4 | 785.9 | 738.3 | 688.2 | 647.9 |
| 37.5° | 1205.3 | 1160.4 | 1106.2 | 1021.7 | 923.9 | 837.4 | 766.7 | 704.7 | 641.3 | 581.2 | 531.6 |
| 40° | 1196.7 | 1157.1 | 1091.0 | 984.0 | 873.1 | 780.6 | 702.0 | 627.4 | 552.8 | 482.1 | 430.6 |
| 42.5° | 1195.4 | 1157.1 | 1068.6 | 945.7 | 829.5 | 730.4 | 642.6 | 552.8 | 462.3 | 393.6 | 348.0 |
| 45° | 1207.2 | 1155.7 | 1044.8 | 911.4 | 790.5 | 685.5 | 579.8 | 474.2 | 381.1 | 321.0 | 295.9 |
| 47.5° | 1241.6 | 1160.4 | 1026.3 | 882.3 | 753.5 | 636.0 | 508.5 | 387.0 | 307.8 | 280.7 | 280.0 |
| 50° | 1297.1 | 1181.5 | 1022.3 | 861.2 | 717.2 | 573.9 | 424.7 | 309.7 | 271.4 | 270.1 | 277.4 |
| 52.5° | 1384.9 | 1221.1 | 1032.2 | 846.7 | 673.6 | 493.3 | 336.2 | 267.5 | 260.2 | 267.5 | 276.7 |
| 55° | 1578.4 | 1291.8 | 1045.4 | 820.9 | 603.0 | 391.0 | 276.7 | 253.6 | 256.9 | 265.5 | 274.1 |
| 57.5° | 1930.4 | 1438.4 | 1059.3 | 762.8 | 488.7 | 300.5 | 249.0 | 248.3 | 254.3 | 261.5 | 269.5 |
| 60° | 2153.6 | 1619.3 | 1093.0 | 676.9 | 369.2 | 248.3 | 238.4 | 245.0 | 252.3 | 257.6 | 264.2 |
| 62.5° | 2160.9 | 1666.9 | 1110.8 | 585.1 | 274.7 | 227.2 | 229.2 | 241.7 | 250.3 | 252.3 | 255.6 |
| 65° | 2021.5 | 1577.1 | 1030.3 | 476.2 | 227.8 | 215.3 | 222.6 | 233.8 | 242.4 | 243.7 | 246.3 |
| 67.5° | 1766.0 | 1390.8 | 873.1 | 359.3 | 207.4 | 206.1 | 214.0 | 222.6 | 228.5 | 233.8 | 237.8 |
| 70° | 1330.1 | 1147.8 | 702.0 | 278.7 | 194.8 | 193.5 | 201.4 | 208.7 | 214.0 | 220.6 | 227.2 |
| 72.5° | 674.3 | 794.5 | 532.3 | 227.8 | 177.7 | 179.0 | 187.6 | 194.2 | 198.1 | 204.1 | 210.7 |
| 75° | 229.8 | 346.7 | 336.8 | 184.3 | 158.5 | 163.8 | 167.7 | 175.0 | 181.0 | 184.9 | 188.2 |
| 77.5° | 144.0 | 150.6 | 173.7 | 148.6 | 140.0 | 141.3 | 147.9 | 154.5 | 161.1 | 163.8 | 165.1 |
| 80° | 120.2 | 120.9 | 121.5 | 118.9 | 119.5 | 123.5 | 127.5 | 134.7 | 141.3 | 142.7 | 143.3 |
| 82.5° | 95.1 | 101.7 | 101.0 | 100.4 | 103.7 | 107.6 | 110.3 | 112.9 | 115.6 | 116.9 | 118.9 |
| 85° | 83.9 | 82.6 | 83.2 | 85.2 | 82.6 | 79.9 | 79.3 | 79.3 | 83.2 | 87.8 | 89.8 |
| 87.5° | 76.6 | 65.4 | 48.9 | 46.2 | 46.2 | 44.9 | 42.3 | 42.3 | 46.2 | 50.2 | 52.2 |
| 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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| 7.5° | 1911.9 | 1918.5 | 1919.8 | 1925.1 | 1923.1 |
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| 15° | 1714.5 | 1730.3 | 1743.5 | 1748.1 | 1742.8 |
| 17.5° | 1622.0 | 1631.9 | 1647.7 | 1651.0 | 1656.3 |
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| 22.5° | 1352.5 | 1362.4 | 1362.4 | 1353.2 | 1348.6 |
| 25° | 1196.7 | 1200.0 | 1190.1 | 1192.1 | 1179.5 |
| 27.5° | 1040.2 | 1031.6 | 1023.7 | 1027.0 | 1017.7 |
| 30° | 890.9 | 872.4 | 864.5 | 865.8 | 855.9 |
| 32.5° | 747.6 | 725.8 | 717.9 | 707.3 | 698.7 |
| 35° | 617.5 | 583.2 | 562.7 | 557.4 | 563.3 |
| 37.5° | 490.0 | 465.6 | 441.2 | 423.3 | 425.3 |
| 40° | 387.7 | 362.6 | 346.7 | 339.5 | 338.1 |
| 42.5° | 320.3 | 305.8 | 302.5 | 303.1 | 303.1 |
| 45° | 290.6 | 291.2 | 293.9 | 296.5 | 297.2 |
| 47.5° | 284.6 | 288.6 | 293.2 | 296.5 | 297.2 |
| 50° | 284.0 | 287.9 | 291.2 | 295.2 | 296.5 |
| 52.5° | 283.3 | 286.0 | 287.9 | 289.9 | 291.9 |
| 55° | 280.7 | 282.0 | 281.3 | 282.7 | 284.6 |
| 57.5° | 274.1 | 274.7 | 273.4 | 274.1 | 278.0 |
| 60° | 268.1 | 268.8 | 266.1 | 269.5 | 270.1 |
| 62.5° | 260.9 | 260.2 | 258.9 | 260.9 | 260.9 |
| 65° | 250.3 | 246.3 | 247.7 | 249.6 | 250.3 |
| 67.5° | 237.8 | 233.8 | 233.8 | 235.1 | 237.1 |
| 70° | 221.9 | 219.9 | 219.9 | 222.6 | 225.2 |
| 72.5° | 204.1 | 205.4 | 209.4 | 213.3 | 217.3 |
| 75° | 189.5 | 192.8 | 196.8 | 206.7 | 212.7 |
| 77.5° | 171.0 | 171.7 | 175.0 | 184.9 | 195.5 |
| 80° | 145.3 | 144.6 | 145.3 | 146.6 | 148.6 |
| 82.5° | 114.9 | 113.6 | 109.6 | 111.0 | 108.3 |
| 85° | 84.5 | 82.6 | 77.9 | 74.6 | 74.0 |
| 87.5° | 48.9 | 48.9 | 46.9 | 44.2 | 41.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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