

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: P161951

Luminaire Tested: **OVF-F05-LED-E-U-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P161951
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-F05-LED-E-U-SL4-7030
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (35) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10865.2 lumens
Efficiency: N/A
Efficacy: 81.5 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

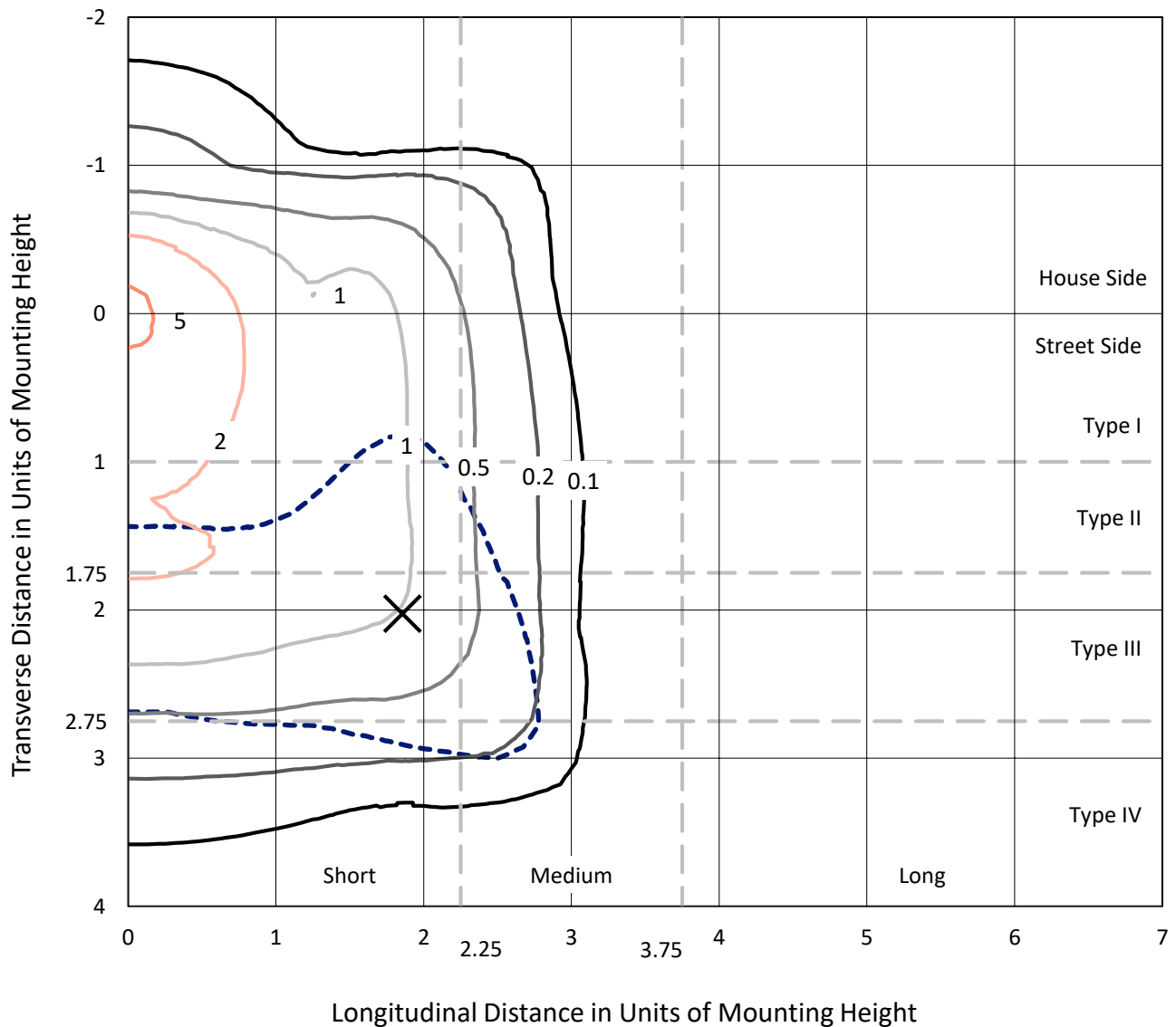
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

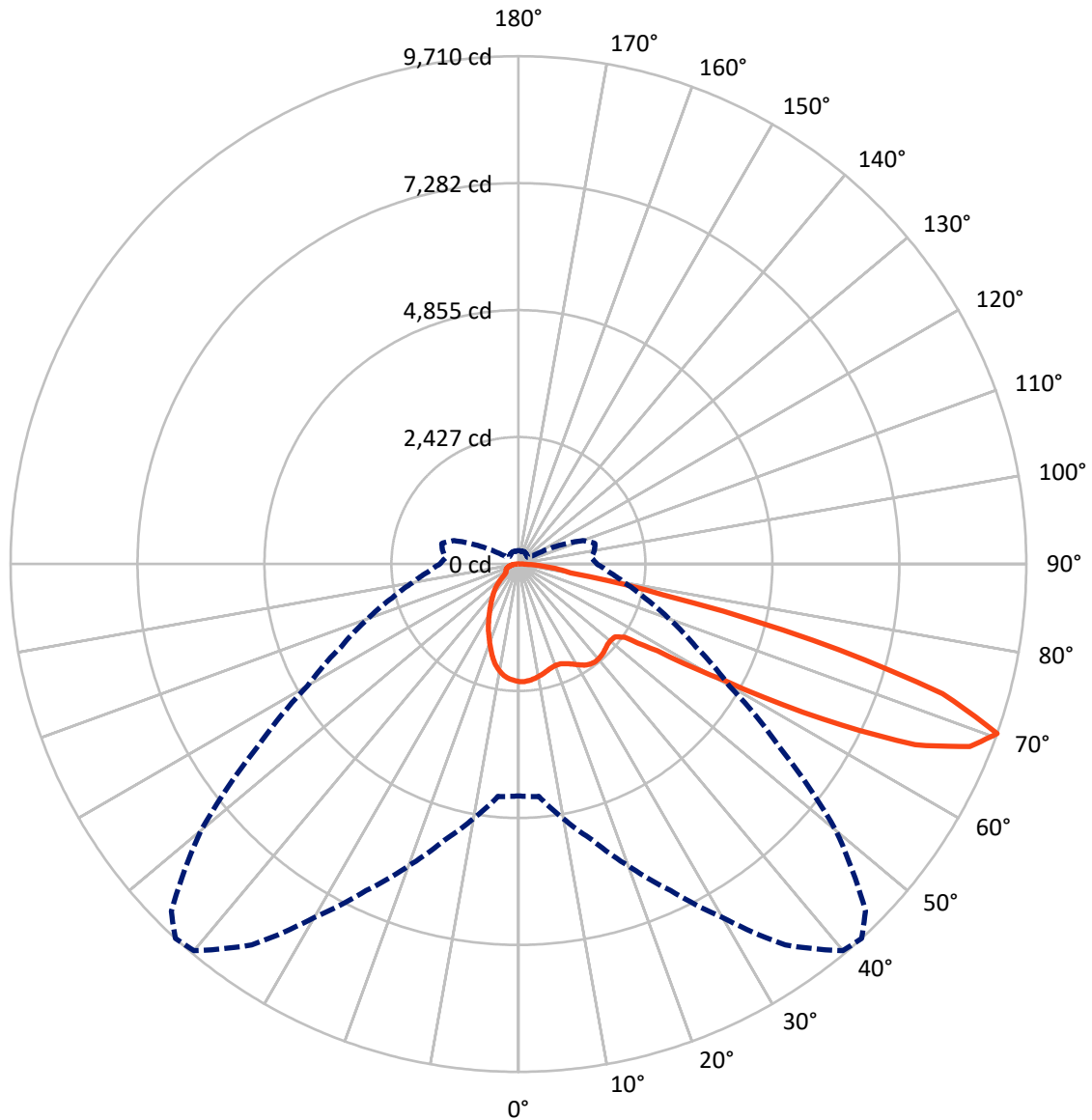
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 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 | 2347.1 | 0.0 | 2347.1 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 8518.1 | 0.0 | 8518.1 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 10865.2 | 0.0 | 10865.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 209.1 | 1.9 |
| 10°-20° | 563.2 | 5.2 |
| 20°-30° | 821.5 | 7.6 |
| 30°-40° | 1047.7 | 9.6 |
| 40°-50° | 1222.9 | 11.3 |
| 50°-60° | 1870.2 | 17.2 |
| 60°-70° | 3390.1 | 31.2 |
| 70°-80° | 1507.3 | 13.9 |
| 80°-90° | 233.3 | 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° | 10865.2 | 100.0 |
| 0°-180° | 10865.2 | 100.0 |

Coefficient of Utilization



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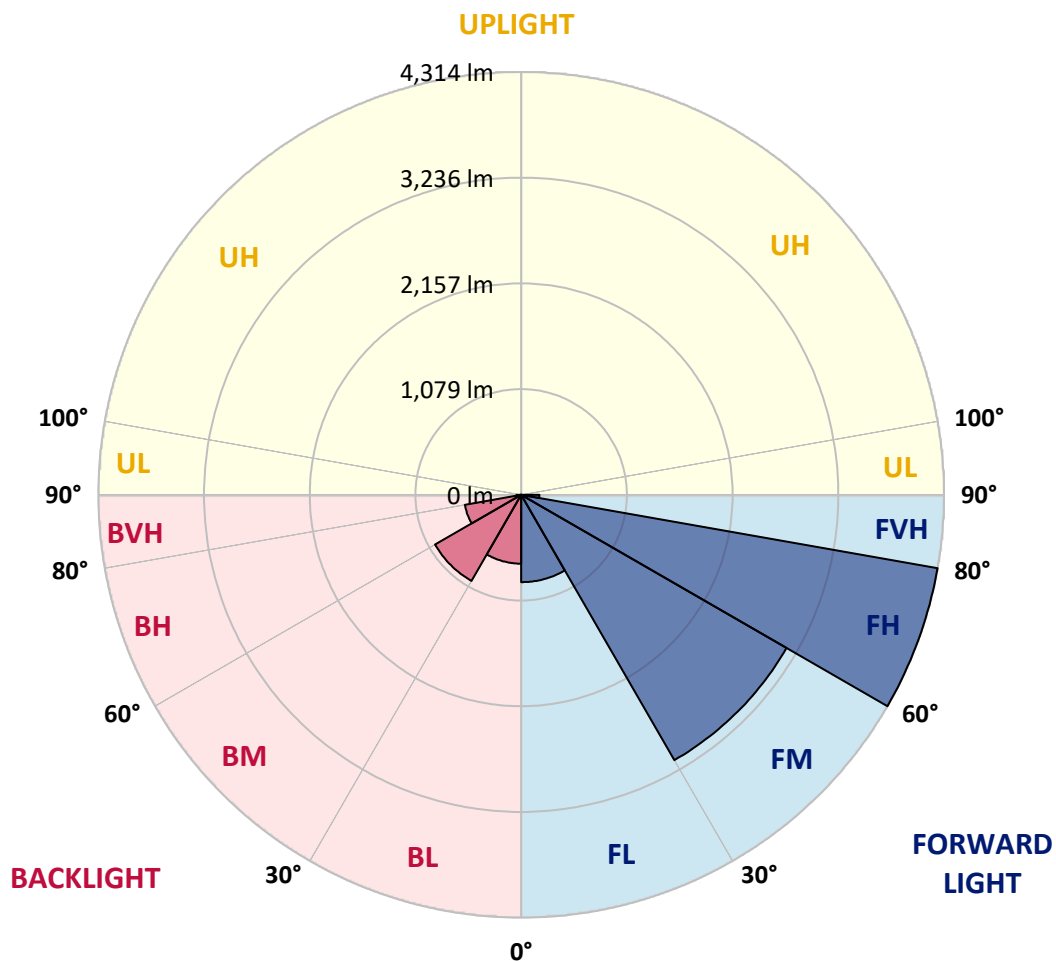
CATALOG NUMBER: OVF-F05-LED-E-U-SL4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 891.2 | 8.2 | | | |
| FM (30°-60°) | 3126.2 | 28.8 | | | |
| FH (60°-80°) | 4314.3 | 39.7 | | | G2/5000 |
| FVH (80°-90°) | 186.4 | 1.7 | | | G2/225 |
| BL (0°-30°) | 702.5 | 6.5 | B2/1000 | | |
| BM (30°-60°) | 1014.6 | 9.3 | B2/2500 | | |
| BH (60°-80°) | 583.1 | 5.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 46.9 | 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° | 2246.9 | 2246.9 | 2246.9 | 2246.9 | 2246.9 | 2246.9 | 2246.9 | 2246.9 | 2246.9 | 2246.9 | 2246.9 |
| 2.5° | 2257.5 | 2255.2 | 2256.7 | 2258.2 | 2258.2 | 2259.0 | 2252.2 | 2252.9 | 2249.9 | 2250.7 | 2251.4 |
| 5° | 2249.2 | 2246.9 | 2248.4 | 2248.4 | 2248.4 | 2247.7 | 2238.6 | 2237.9 | 2234.1 | 2234.1 | 2232.6 |
| 7.5° | 2233.3 | 2225.0 | 2229.6 | 2230.3 | 2228.8 | 2225.0 | 2219.8 | 2214.5 | 2212.2 | 2212.2 | 2206.9 |
| 10° | 2209.2 | 2200.2 | 2202.4 | 2203.9 | 2203.2 | 2195.6 | 2193.4 | 2188.1 | 2182.1 | 2179.8 | 2173.8 |
| 12.5° | 2178.3 | 2172.3 | 2175.3 | 2174.5 | 2174.5 | 2167.7 | 2164.0 | 2156.4 | 2148.9 | 2145.1 | 2137.6 |
| 15° | 2158.7 | 2151.1 | 2154.2 | 2154.2 | 2151.1 | 2144.4 | 2139.1 | 2125.5 | 2112.7 | 2108.2 | 2098.4 |
| 17.5° | 2170.7 | 2163.2 | 2166.2 | 2164.0 | 2158.7 | 2144.4 | 2130.8 | 2108.9 | 2088.6 | 2076.5 | 2063.7 |
| 20° | 2219.0 | 2211.5 | 2213.7 | 2212.2 | 2204.7 | 2181.3 | 2156.4 | 2118.7 | 2081.0 | 2062.9 | 2043.3 |
| 22.5° | 2295.9 | 2289.9 | 2293.6 | 2291.4 | 2279.3 | 2249.2 | 2212.2 | 2157.9 | 2101.4 | 2074.2 | 2046.3 |
| 25° | 2409.8 | 2408.3 | 2414.3 | 2407.5 | 2390.2 | 2344.9 | 2291.4 | 2218.2 | 2144.4 | 2110.4 | 2071.2 |
| 27.5° | 2547.0 | 2534.2 | 2543.2 | 2537.2 | 2525.1 | 2467.8 | 2395.4 | 2302.7 | 2208.4 | 2164.0 | 2117.2 |
| 30° | 2670.6 | 2659.3 | 2675.9 | 2672.9 | 2654.8 | 2596.0 | 2504.8 | 2396.2 | 2289.9 | 2233.3 | 2179.8 |
| 32.5° | 2813.9 | 2799.6 | 2812.4 | 2812.4 | 2785.3 | 2706.1 | 2602.0 | 2477.6 | 2366.0 | 2305.7 | 2241.6 |
| 35° | 2963.9 | 2948.9 | 2960.9 | 2957.2 | 2908.9 | 2804.1 | 2673.7 | 2538.7 | 2415.8 | 2354.0 | 2288.4 |
| 37.5° | 3103.4 | 3101.2 | 3104.2 | 3079.3 | 3012.2 | 2878.0 | 2721.9 | 2571.1 | 2440.7 | 2375.8 | 2307.2 |
| 40° | 3242.9 | 3237.6 | 3224.8 | 3181.1 | 3083.1 | 2921.7 | 2746.8 | 2582.4 | 2442.2 | 2374.3 | 2305.0 |
| 42.5° | 3330.4 | 3320.6 | 3298.7 | 3239.2 | 3116.3 | 2932.3 | 2739.3 | 2565.1 | 2424.1 | 2354.7 | 2286.9 |
| 45° | 3360.5 | 3350.7 | 3324.4 | 3257.3 | 3117.0 | 2915.7 | 2709.9 | 2530.4 | 2390.2 | 2326.8 | 2258.2 |
| 47.5° | 3335.7 | 3329.6 | 3305.5 | 3238.4 | 3092.9 | 2884.8 | 2672.9 | 2495.7 | 2357.7 | 2295.9 | 2231.8 |
| 50° | 3293.4 | 3289.7 | 3268.6 | 3206.7 | 3070.3 | 2865.9 | 2655.6 | 2479.1 | 2348.7 | 2291.4 | 2231.1 |
| 52.5° | 3399.0 | 3387.7 | 3350.0 | 3276.9 | 3117.8 | 2899.9 | 2682.7 | 2504.0 | 2369.8 | 2311.7 | 2249.9 |
| 55° | 4696.6 | 4612.9 | 4425.9 | 4075.3 | 3584.5 | 3203.7 | 2883.3 | 2667.6 | 2522.9 | 2466.3 | 2407.5 |
| 57.5° | 6176.7 | 6089.3 | 6011.6 | 5743.9 | 5161.1 | 4441.8 | 3794.8 | 3416.3 | 3157.0 | 3132.1 | 3108.7 |
| 60° | 6746.7 | 6774.6 | 6767.8 | 6668.3 | 6369.7 | 6028.2 | 5486.8 | 5039.7 | 4544.3 | 4524.0 | 4553.4 |
| 62.5° | 7139.6 | 7162.9 | 7166.0 | 7135.8 | 7038.5 | 6924.7 | 6811.6 | 6668.3 | 6574.1 | 6533.4 | 6270.2 |
| 65° | 7301.7 | 7335.6 | 7410.2 | 7466.0 | 7481.9 | 7521.1 | 7623.6 | 8013.4 | 8338.4 | 8336.2 | 8027.8 |
| 67.5° | 6682.6 | 6723.4 | 7006.1 | 7283.6 | 7516.6 | 7786.5 | 8201.9 | 8836.0 | 9325.4 | 9310.3 | 9057.7 |
| 70° | 4435.0 | 4460.6 | 4940.9 | 5463.4 | 6141.3 | 6890.7 | 7798.6 | 8891.8 | 9650.4 | 9709.9 | 9384.2 |
| 72.5° | 2720.4 | 2779.2 | 2936.1 | 3147.9 | 3509.8 | 4204.3 | 5553.9 | 7422.3 | 8535.2 | 8479.4 | 8220.0 |
| 75° | 1836.7 | 1839.7 | 1835.2 | 1857.8 | 1878.2 | 2018.4 | 2562.1 | 4081.4 | 5781.6 | 5811.8 | 5700.2 |
| 77.5° | 1255.4 | 1272.0 | 1281.0 | 1275.0 | 1295.4 | 1289.3 | 1321.0 | 1398.7 | 2216.0 | 2828.2 | 2599.0 |
| 80° | 1097.1 | 1103.8 | 1113.6 | 1099.3 | 1061.6 | 1040.5 | 1069.9 | 1042.0 | 981.7 | 1014.1 | 971.1 |
| 82.5° | 694.4 | 714.8 | 717.0 | 766.8 | 840.7 | 843.7 | 881.4 | 853.5 | 776.6 | 726.1 | 664.3 |
| 85° | 499.1 | 506.7 | 520.3 | 523.3 | 497.6 | 475.8 | 489.3 | 466.0 | 420.0 | 392.8 | 347.6 |
| 87.5° | 291.0 | 298.6 | 312.2 | 303.9 | 278.2 | 246.6 | 222.4 | 191.5 | 151.6 | 141.8 | 125.2 |
| 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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CATALOG NUMBER: OVF-F05-LED-E-U-SL4-7030

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2246.9 | 2246.9 | 2246.9 | 2246.9 | 2246.9 | 2246.9 | 2246.9 | 2246.9 | 2246.9 | 2246.9 | 2246.9 |
| 2.5° | 2252.2 | 2248.4 | 2245.4 | 2243.9 | 2246.9 | 2243.9 | 2240.9 | 2239.4 | 2236.3 | 2237.1 | 2233.3 |
| 5° | 2231.1 | 2225.8 | 2221.3 | 2217.5 | 2220.5 | 2215.2 | 2210.7 | 2207.7 | 2203.9 | 2203.2 | 2199.4 |
| 7.5° | 2201.7 | 2193.4 | 2187.3 | 2180.5 | 2173.0 | 2168.5 | 2163.2 | 2157.9 | 2149.6 | 2148.9 | 2147.4 |
| 10° | 2163.2 | 2156.4 | 2144.4 | 2133.8 | 2123.2 | 2111.9 | 2100.6 | 2092.3 | 2082.5 | 2078.8 | 2073.5 |
| 12.5° | 2124.8 | 2111.2 | 2096.9 | 2080.3 | 2067.5 | 2049.4 | 2034.3 | 2018.4 | 2004.1 | 1995.1 | 1985.3 |
| 15° | 2079.5 | 2065.2 | 2044.8 | 2029.0 | 2010.9 | 1990.5 | 1970.9 | 1947.6 | 1924.2 | 1909.9 | 1896.3 |
| 17.5° | 2040.3 | 2022.2 | 2005.6 | 1983.0 | 1964.9 | 1941.5 | 1912.1 | 1887.2 | 1859.3 | 1836.0 | 1811.1 |
| 20° | 2010.1 | 1989.8 | 1970.2 | 1949.8 | 1928.0 | 1901.6 | 1869.1 | 1833.7 | 1798.3 | 1765.1 | 1728.2 |
| 22.5° | 1998.1 | 1965.7 | 1943.8 | 1924.9 | 1902.3 | 1872.2 | 1836.0 | 1792.2 | 1748.5 | 1706.3 | 1663.3 |
| 25° | 2008.6 | 1960.4 | 1926.5 | 1905.3 | 1885.0 | 1854.1 | 1813.4 | 1763.6 | 1712.3 | 1658.8 | 1607.5 |
| 27.5° | 2037.3 | 1976.2 | 1928.0 | 1894.8 | 1871.4 | 1841.3 | 1796.0 | 1744.0 | 1685.9 | 1625.6 | 1570.6 |
| 30° | 2078.8 | 2002.6 | 1942.3 | 1894.8 | 1860.1 | 1825.4 | 1776.4 | 1717.6 | 1656.5 | 1593.2 | 1531.4 |
| 32.5° | 2124.0 | 2032.0 | 1959.6 | 1897.0 | 1843.5 | 1799.8 | 1748.5 | 1691.2 | 1626.4 | 1559.3 | 1492.9 |
| 35° | 2157.9 | 2053.1 | 1967.2 | 1888.8 | 1820.1 | 1765.1 | 1710.1 | 1654.3 | 1590.9 | 1523.1 | 1456.7 |
| 37.5° | 2172.3 | 2061.4 | 1965.7 | 1871.4 | 1787.7 | 1727.4 | 1670.1 | 1614.3 | 1553.2 | 1489.1 | 1428.1 |
| 40° | 2173.0 | 2061.4 | 1956.6 | 1848.0 | 1753.8 | 1688.2 | 1627.9 | 1575.8 | 1518.5 | 1463.5 | 1409.2 |
| 42.5° | 2158.7 | 2050.9 | 1940.0 | 1826.2 | 1728.9 | 1655.0 | 1593.2 | 1539.7 | 1493.7 | 1444.7 | 1398.7 |
| 45° | 2133.0 | 2029.8 | 1924.9 | 1814.1 | 1719.9 | 1646.7 | 1580.4 | 1529.9 | 1488.4 | 1444.7 | 1404.7 |
| 47.5° | 2113.4 | 2017.7 | 1925.7 | 1831.5 | 1741.7 | 1666.3 | 1594.7 | 1541.2 | 1505.7 | 1471.0 | 1442.4 |
| 50° | 2117.2 | 2022.2 | 1934.7 | 1845.0 | 1756.8 | 1680.7 | 1611.3 | 1565.3 | 1544.2 | 1532.9 | 1526.1 |
| 52.5° | 2136.8 | 2040.3 | 1974.0 | 1914.4 | 1885.7 | 1839.0 | 1800.5 | 1765.9 | 1771.1 | 1744.0 | 1709.3 |
| 55° | 2338.9 | 2306.5 | 2382.6 | 2437.7 | 2464.8 | 2512.3 | 2580.9 | 2515.3 | 2506.3 | 2422.6 | 2173.8 |
| 57.5° | 3140.4 | 3217.3 | 3334.2 | 3417.1 | 3425.4 | 3411.1 | 3354.5 | 3300.2 | 3212.0 | 3086.1 | 2737.8 |
| 60° | 4484.8 | 4466.7 | 4358.1 | 4212.6 | 4099.5 | 3950.9 | 3801.6 | 3675.7 | 3534.0 | 3340.9 | 2970.0 |
| 62.5° | 5898.5 | 5462.7 | 5075.9 | 4746.4 | 4466.7 | 4218.6 | 3993.1 | 3803.9 | 3609.4 | 3331.9 | 2936.8 |
| 65° | 7040.0 | 6201.6 | 5520.0 | 4989.9 | 4573.7 | 4223.1 | 3932.1 | 3671.2 | 3411.1 | 3089.9 | 2706.8 |
| 67.5° | 7855.9 | 6525.8 | 5497.4 | 4751.7 | 4168.1 | 3685.5 | 3261.8 | 2964.7 | 2697.8 | 2445.2 | 2272.5 |
| 70° | 7920.7 | 6077.2 | 4650.6 | 3738.3 | 3065.0 | 2498.0 | 2058.4 | 1734.2 | 1502.0 | 1397.1 | 1471.8 |
| 72.5° | 6768.6 | 4496.1 | 3092.1 | 2288.4 | 1816.4 | 1411.5 | 1134.8 | 907.1 | 720.1 | 628.1 | 640.9 |
| 75° | 3986.4 | 2158.7 | 1392.6 | 1037.5 | 847.5 | 677.1 | 585.9 | 494.6 | 436.6 | 349.9 | 279.7 |
| 77.5° | 1517.8 | 938.7 | 702.7 | 583.6 | 416.2 | 299.3 | 236.0 | 203.6 | 187.0 | 184.7 | 174.9 |
| 80° | 874.6 | 688.4 | 481.8 | 315.2 | 230.7 | 195.3 | 167.4 | 143.3 | 133.5 | 131.2 | 135.0 |
| 82.5° | 552.7 | 429.0 | 264.7 | 202.8 | 168.1 | 144.8 | 120.6 | 104.8 | 96.5 | 93.5 | 98.8 |
| 85° | 285.8 | 214.9 | 161.4 | 138.7 | 128.9 | 117.6 | 96.5 | 80.7 | 79.9 | 83.7 | 96.5 |
| 87.5° | 105.6 | 92.0 | 72.4 | 62.6 | 67.1 | 62.6 | 45.2 | 39.2 | 35.4 | 46.7 | 67.9 |
| 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):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2246.9 | 2246.9 | 2246.9 | 2246.9 | 2246.9 | 2246.9 | 2246.9 | 2246.9 | 2246.9 | 2246.9 | 2246.9 |
| 2.5° | 2233.3 | 2231.8 | 2232.6 | 2231.1 | 2231.1 | 2233.3 | 2230.3 | 2228.1 | 2231.8 | 2231.8 | 2234.1 |
| 5° | 2198.6 | 2200.2 | 2200.2 | 2199.4 | 2200.9 | 2204.7 | 2203.9 | 2203.9 | 2210.0 | 2212.2 | 2215.2 |
| 7.5° | 2143.6 | 2145.9 | 2146.6 | 2148.9 | 2149.6 | 2154.9 | 2158.7 | 2163.2 | 2172.3 | 2174.5 | 2181.3 |
| 10° | 2069.0 | 2067.5 | 2072.7 | 2072.0 | 2078.8 | 2083.3 | 2086.3 | 2096.1 | 2109.7 | 2117.2 | 2124.0 |
| 12.5° | 1980.7 | 1980.7 | 1983.8 | 1984.5 | 1990.5 | 1996.6 | 2000.3 | 2012.4 | 2023.7 | 2033.5 | 2048.6 |
| 15° | 1887.2 | 1884.2 | 1877.4 | 1876.7 | 1879.0 | 1885.0 | 1893.3 | 1902.3 | 1919.7 | 1934.0 | 1946.8 |
| 17.5° | 1789.2 | 1780.2 | 1771.9 | 1761.3 | 1760.6 | 1759.8 | 1764.3 | 1771.1 | 1798.3 | 1812.6 | 1830.7 |
| 20° | 1702.5 | 1682.9 | 1663.3 | 1641.4 | 1628.6 | 1622.6 | 1624.9 | 1633.9 | 1659.5 | 1678.4 | 1697.2 |
| 22.5° | 1624.9 | 1595.5 | 1564.5 | 1529.9 | 1508.7 | 1495.9 | 1497.4 | 1501.2 | 1520.1 | 1531.4 | 1541.2 |
| 25° | 1558.5 | 1517.8 | 1474.8 | 1430.3 | 1400.9 | 1381.3 | 1380.6 | 1380.6 | 1372.3 | 1373.8 | 1368.5 |
| 27.5° | 1513.3 | 1456.7 | 1401.7 | 1349.6 | 1311.2 | 1291.6 | 1265.2 | 1246.4 | 1229.8 | 1207.1 | 1197.3 |
| 30° | 1469.5 | 1411.5 | 1348.9 | 1291.6 | 1245.6 | 1207.1 | 1158.1 | 1117.4 | 1085.0 | 1054.1 | 1027.7 |
| 32.5° | 1430.3 | 1370.0 | 1310.4 | 1247.9 | 1184.5 | 1118.2 | 1054.1 | 1007.3 | 961.3 | 913.8 | 882.2 |
| 35° | 1395.6 | 1339.1 | 1279.5 | 1208.7 | 1119.7 | 1033.0 | 960.6 | 897.3 | 843.0 | 785.7 | 739.7 |
| 37.5° | 1376.0 | 1324.8 | 1262.9 | 1166.4 | 1054.8 | 956.1 | 875.4 | 804.5 | 732.1 | 663.5 | 607.0 |
| 40° | 1366.2 | 1321.0 | 1245.6 | 1123.5 | 996.8 | 891.2 | 801.5 | 716.3 | 631.1 | 550.4 | 491.6 |
| 42.5° | 1364.7 | 1321.0 | 1220.0 | 1079.7 | 947.0 | 833.9 | 733.6 | 631.1 | 527.8 | 449.4 | 397.4 |
| 45° | 1378.3 | 1319.5 | 1192.8 | 1040.5 | 902.5 | 782.6 | 662.0 | 541.4 | 435.1 | 366.4 | 337.8 |
| 47.5° | 1417.5 | 1324.8 | 1171.7 | 1007.3 | 860.3 | 726.1 | 580.6 | 441.8 | 351.4 | 320.4 | 319.7 |
| 50° | 1480.8 | 1348.9 | 1167.2 | 983.2 | 818.8 | 655.2 | 484.8 | 353.6 | 309.9 | 308.4 | 316.7 |
| 52.5° | 1581.1 | 1394.1 | 1178.5 | 966.6 | 769.1 | 563.2 | 383.8 | 305.4 | 297.1 | 305.4 | 315.9 |
| 55° | 1802.0 | 1474.8 | 1193.6 | 937.2 | 688.4 | 446.4 | 315.9 | 289.5 | 293.3 | 303.1 | 312.9 |
| 57.5° | 2203.9 | 1642.2 | 1209.4 | 870.9 | 558.0 | 343.1 | 284.3 | 283.5 | 290.3 | 298.6 | 307.6 |
| 60° | 2458.8 | 1848.8 | 1247.9 | 772.8 | 421.5 | 283.5 | 272.2 | 279.7 | 288.0 | 294.1 | 301.6 |
| 62.5° | 2467.1 | 1903.1 | 1268.2 | 668.0 | 313.7 | 259.4 | 261.6 | 276.0 | 285.8 | 288.0 | 291.8 |
| 65° | 2308.0 | 1800.5 | 1176.2 | 543.6 | 260.1 | 245.8 | 254.1 | 266.9 | 276.7 | 278.2 | 281.2 |
| 67.5° | 2016.2 | 1587.9 | 996.8 | 410.2 | 236.8 | 235.2 | 244.3 | 254.1 | 260.9 | 266.9 | 271.4 |
| 70° | 1518.5 | 1310.4 | 801.5 | 318.2 | 222.4 | 220.9 | 230.0 | 238.3 | 244.3 | 251.8 | 259.4 |
| 72.5° | 769.8 | 907.1 | 607.7 | 260.1 | 202.8 | 204.3 | 214.1 | 221.7 | 226.2 | 233.0 | 240.5 |
| 75° | 262.4 | 395.8 | 384.5 | 210.4 | 181.0 | 187.0 | 191.5 | 199.8 | 206.6 | 211.1 | 214.9 |
| 77.5° | 164.4 | 171.9 | 198.3 | 169.6 | 159.8 | 161.4 | 168.9 | 176.4 | 184.0 | 187.0 | 188.5 |
| 80° | 137.2 | 138.0 | 138.7 | 135.7 | 136.5 | 141.0 | 145.5 | 153.8 | 161.4 | 162.9 | 163.6 |
| 82.5° | 108.6 | 116.1 | 115.4 | 114.6 | 118.4 | 122.9 | 125.9 | 128.9 | 131.9 | 133.5 | 135.7 |
| 85° | 95.8 | 94.2 | 95.0 | 97.3 | 94.2 | 91.2 | 90.5 | 90.5 | 95.0 | 100.3 | 102.5 |
| 87.5° | 87.5 | 74.6 | 55.8 | 52.8 | 52.8 | 51.3 | 48.3 | 48.3 | 52.8 | 57.3 | 59.6 |
| 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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| 45° | 331.8 | 332.5 | 335.5 | 338.5 | 339.3 |
| 47.5° | 325.0 | 329.5 | 334.8 | 338.5 | 339.3 |
| 50° | 324.2 | 328.7 | 332.5 | 337.0 | 338.5 |
| 52.5° | 323.5 | 326.5 | 328.7 | 331.0 | 333.3 |
| 55° | 320.4 | 322.0 | 321.2 | 322.7 | 325.0 |
| 57.5° | 312.9 | 313.7 | 312.2 | 312.9 | 317.4 |
| 60° | 306.1 | 306.9 | 303.9 | 307.6 | 308.4 |
| 62.5° | 297.8 | 297.1 | 295.6 | 297.8 | 297.8 |
| 65° | 285.8 | 281.2 | 282.7 | 285.0 | 285.8 |
| 67.5° | 271.4 | 266.9 | 266.9 | 268.4 | 270.7 |
| 70° | 253.3 | 251.1 | 251.1 | 254.1 | 257.1 |
| 72.5° | 233.0 | 234.5 | 239.0 | 243.5 | 248.1 |
| 75° | 216.4 | 220.2 | 224.7 | 236.0 | 242.8 |
| 77.5° | 195.3 | 196.0 | 199.8 | 211.1 | 223.2 |
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