

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: P161689

Luminaire Tested: **OVF-E03-LED-E-U-5XQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P161689
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33699)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVF-E03-LED-E-U-5XQ-7060
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (63) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9518.5 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

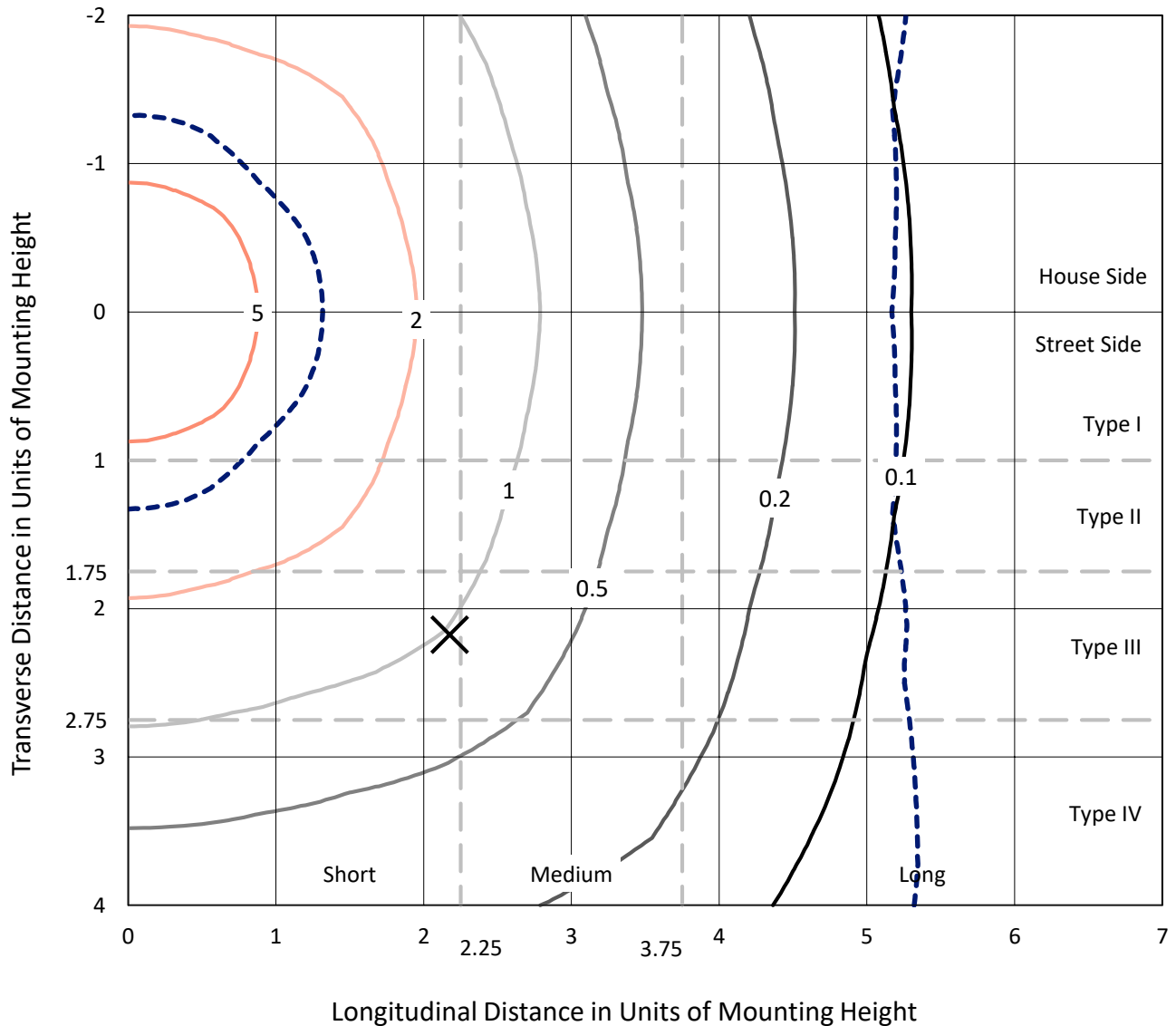
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

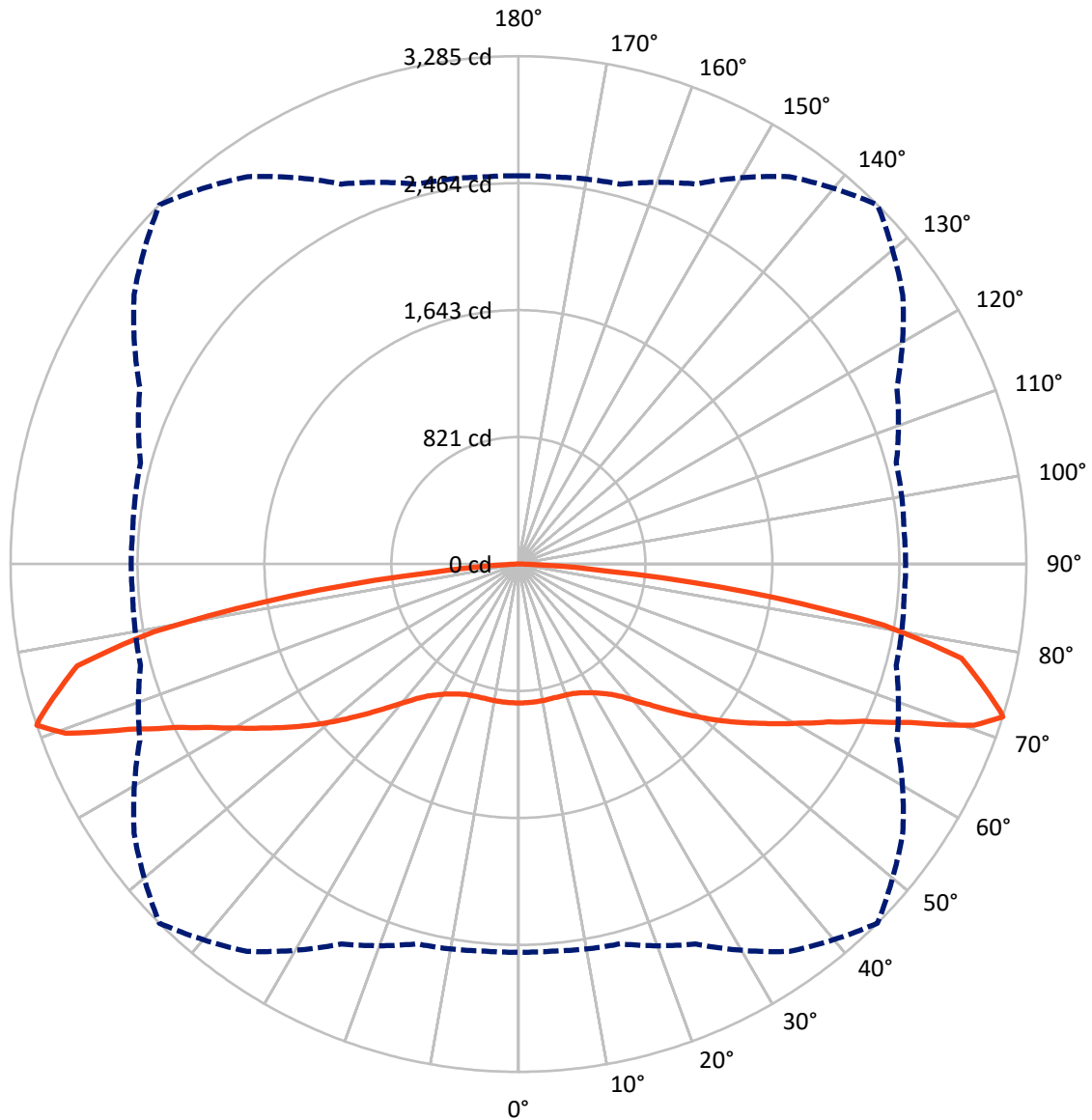
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4759.2 | 0.0 | 4759.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4759.2 | 0.0 | 4759.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9518.5 | 0.0 | 9518.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 85.8 | 0.9 |
| 10°-20° | 254.8 | 2.7 |
| 20°-30° | 428.1 | 4.5 |
| 30°-40° | 651.5 | 6.8 |
| 40°-50° | 1030.0 | 10.8 |
| 50°-60° | 1573.2 | 16.5 |
| 60°-70° | 2304.7 | 24.2 |
| 70°-80° | 2618.4 | 27.5 |
| 80°-90° | 571.9 | 6.0 |
| 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° | 9518.5 | 100.0 |
| 0°-180° | 9518.5 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P161689

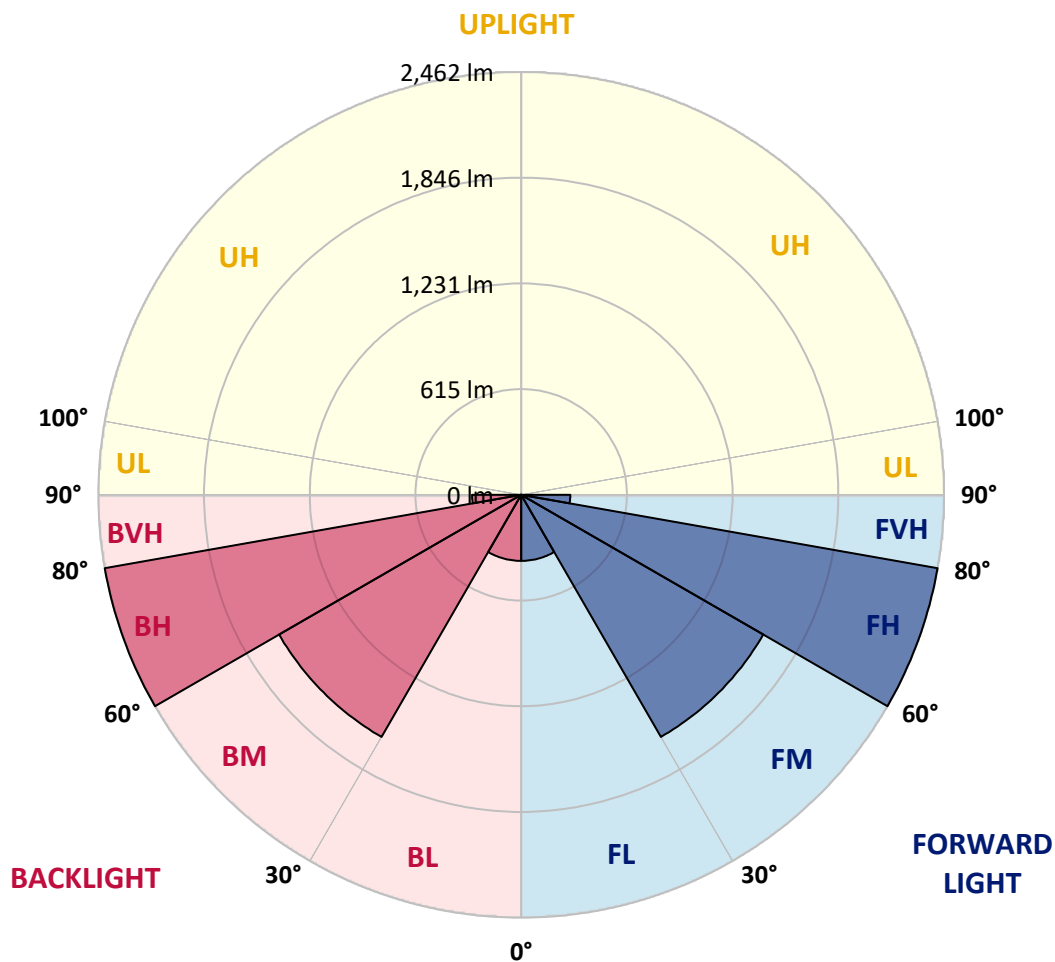
CATALOG NUMBER: OVF-E03-LED-E-U-5XQ-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 384.4 | 4.0 | | | |
| FM | (30°-60°) | 1627.4 | 17.1 | | | |
| FH | (60°-80°) | 2461.6 | 25.9 | | | G2/5000 |
| FVH | (80°-90°) | 286.0 | 3.0 | | | G3/500 |
| BL | (0°-30°) | 384.4 | 4.0 | B1/500 | | |
| BM | (30°-60°) | 1627.4 | 17.1 | B2/2500 | | |
| BH | (60°-80°) | 2461.6 | 25.9 | B3/2500 | | G2/5000 |
| BVH | (80°-90°) | 286.0 | 3.0 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type V Short





REPORT NUMBER: P161689

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 898.9 | 898.9 | 898.9 | 898.9 | 898.9 | 898.9 | 898.9 | 898.9 | 898.9 | 898.9 | 898.9 |
| 2.5° | 900.8 | 900.4 | 899.8 | 899.2 | 898.9 | 898.6 | 898.6 | 898.6 | 898.4 | 898.2 | 898.4 |
| 5° | 900.7 | 900.4 | 899.9 | 899.4 | 899.0 | 898.6 | 898.6 | 898.6 | 898.4 | 898.2 | 898.6 |
| 7.5° | 899.5 | 899.8 | 899.4 | 898.9 | 898.7 | 898.6 | 898.4 | 898.2 | 898.0 | 897.6 | 897.8 |
| 10° | 899.8 | 901.0 | 900.1 | 899.2 | 898.8 | 898.6 | 897.9 | 897.3 | 897.2 | 897.0 | 896.7 |
| 12.5° | 900.4 | 901.6 | 900.6 | 899.5 | 899.0 | 898.6 | 898.0 | 897.4 | 896.9 | 896.4 | 896.0 |
| 15° | 902.2 | 903.2 | 902.2 | 901.3 | 900.4 | 899.5 | 898.9 | 898.2 | 897.4 | 896.4 | 896.0 |
| 17.5° | 903.5 | 905.0 | 904.0 | 902.9 | 901.8 | 900.7 | 900.1 | 899.5 | 898.9 | 898.2 | 897.5 |
| 20° | 905.6 | 907.2 | 906.2 | 905.3 | 904.7 | 904.1 | 903.6 | 903.2 | 902.7 | 902.2 | 901.2 |
| 22.5° | 909.6 | 910.9 | 910.6 | 910.3 | 910.4 | 910.6 | 910.8 | 910.9 | 910.6 | 910.2 | 909.2 |
| 25° | 918.0 | 918.0 | 918.6 | 919.2 | 920.1 | 921.0 | 921.8 | 922.6 | 923.0 | 923.5 | 922.1 |
| 27.5° | 932.4 | 933.6 | 934.1 | 934.6 | 936.1 | 937.6 | 939.4 | 941.0 | 942.0 | 942.9 | 941.5 |
| 30° | 951.2 | 951.2 | 952.3 | 953.4 | 956.0 | 958.6 | 960.7 | 962.9 | 964.6 | 966.3 | 965.2 |
| 32.5° | 975.2 | 976.8 | 978.3 | 979.8 | 983.1 | 986.3 | 990.0 | 993.6 | 995.8 | 998.0 | 996.3 |
| 35° | 1011.8 | 1013.7 | 1015.2 | 1016.8 | 1020.2 | 1023.6 | 1027.7 | 1031.8 | 1033.7 | 1035.6 | 1034.5 |
| 37.5° | 1063.6 | 1063.6 | 1065.7 | 1067.9 | 1070.0 | 1072.2 | 1077.8 | 1083.3 | 1085.6 | 1087.9 | 1086.1 |
| 40° | 1133.4 | 1133.8 | 1134.2 | 1134.7 | 1136.7 | 1138.6 | 1145.4 | 1152.2 | 1156.2 | 1160.2 | 1156.4 |
| 42.5° | 1213.8 | 1217.2 | 1217.0 | 1216.9 | 1218.3 | 1219.6 | 1226.1 | 1232.6 | 1238.2 | 1244.0 | 1241.6 |
| 45° | 1308.6 | 1307.9 | 1306.8 | 1305.6 | 1309.7 | 1313.8 | 1323.0 | 1332.3 | 1337.4 | 1342.4 | 1337.7 |
| 47.5° | 1404.4 | 1403.4 | 1401.7 | 1400.0 | 1404.2 | 1408.3 | 1422.2 | 1436.0 | 1443.2 | 1450.5 | 1442.8 |
| 50° | 1499.8 | 1503.4 | 1501.3 | 1499.2 | 1505.3 | 1511.4 | 1529.0 | 1546.6 | 1557.2 | 1567.8 | 1558.9 |
| 52.5° | 1605.4 | 1608.1 | 1605.6 | 1603.2 | 1611.6 | 1620.1 | 1640.9 | 1661.7 | 1675.8 | 1690.0 | 1678.0 |
| 55° | 1714.6 | 1711.2 | 1712.6 | 1714.0 | 1722.0 | 1730.0 | 1755.6 | 1781.1 | 1798.0 | 1815.0 | 1801.4 |
| 57.5° | 1816.8 | 1818.0 | 1816.7 | 1815.3 | 1827.9 | 1840.6 | 1872.7 | 1904.9 | 1926.1 | 1947.4 | 1930.4 |
| 60° | 1921.4 | 1921.8 | 1918.7 | 1915.6 | 1929.4 | 1943.0 | 1989.2 | 2035.4 | 2063.0 | 2090.5 | 2067.2 |
| 62.5° | 2038.5 | 2038.2 | 2032.8 | 2027.4 | 2043.5 | 2059.7 | 2117.0 | 2174.2 | 2212.1 | 2250.0 | 2221.6 |
| 65° | 2181.9 | 2178.2 | 2175.1 | 2172.0 | 2190.7 | 2209.3 | 2280.4 | 2351.6 | 2402.6 | 2453.7 | 2417.2 |
| 67.5° | 2393.4 | 2390.6 | 2384.2 | 2377.7 | 2398.5 | 2419.2 | 2510.4 | 2601.5 | 2667.5 | 2733.6 | 2685.4 |
| 70° | 2626.1 | 2620.8 | 2625.3 | 2629.8 | 2677.8 | 2725.9 | 2848.1 | 2970.3 | 3048.5 | 3126.6 | 3045.7 |
| 72° | 2511.2 | 2513.4 | 2528.4 | 2543.3 | 2627.5 | 2711.7 | 2885.3 | 3058.9 | 3172.0 | 3285.2 | 3160.0 |
| 72.5° | 2471.2 | 2473.2 | 2490.1 | 2507.0 | 2587.3 | 2667.6 | 2846.7 | 3025.7 | 3142.8 | 3260.0 | 3131.3 |
| 75° | 2301.4 | 2306.2 | 2325.8 | 2345.4 | 2426.8 | 2508.2 | 2688.8 | 2869.3 | 2981.5 | 3093.7 | 2964.9 |
| 77.5° | 2024.0 | 2039.4 | 2059.2 | 2079.1 | 2176.1 | 2273.0 | 2477.1 | 2681.2 | 2805.1 | 2929.0 | 2782.8 |
| 80° | 1544.7 | 1539.2 | 1573.3 | 1607.5 | 1700.2 | 1792.8 | 1950.7 | 2108.6 | 2251.3 | 2394.0 | 2229.6 |
| 82.5° | 600.2 | 613.5 | 684.3 | 755.1 | 852.2 | 949.4 | 1090.8 | 1232.2 | 1360.8 | 1489.3 | 1352.5 |
| 85° | 61.8 | 70.4 | 95.9 | 121.3 | 174.2 | 227.2 | 313.4 | 399.6 | 484.1 | 568.6 | 476.8 |
| 87.5° | 24.9 | 27.4 | 35.2 | 43.1 | 45.1 | 47.1 | 57.0 | 66.8 | 66.3 | 65.8 | 65.0 |
| 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: OVF-E03-LED-E-U-5XQ-7060

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 898.9 | 898.9 | 898.9 | 898.9 | 898.9 | 898.9 | 898.9 | 898.9 |
| 2.5° | 898.6 | 898.8 | 899.2 | 899.2 | 899.2 | 899.6 | 900.1 | 899.5 |
| 5° | 898.9 | 899.0 | 899.2 | 899.2 | 899.2 | 899.6 | 900.1 | 899.5 |
| 7.5° | 898.0 | 898.0 | 898.0 | 898.4 | 898.8 | 899.0 | 899.2 | 898.9 |
| 10° | 896.4 | 896.6 | 896.7 | 897.2 | 897.6 | 898.1 | 898.6 | 898.9 |
| 12.5° | 895.5 | 895.6 | 895.8 | 896.2 | 896.7 | 897.2 | 897.6 | 898.3 |
| 15° | 895.5 | 895.6 | 895.8 | 896.1 | 896.4 | 897.0 | 897.6 | 898.3 |
| 17.5° | 896.8 | 896.4 | 896.1 | 896.4 | 896.7 | 897.5 | 898.2 | 898.9 |
| 20° | 900.1 | 899.6 | 899.2 | 899.2 | 899.2 | 900.0 | 900.7 | 900.7 |
| 22.5° | 908.1 | 906.6 | 905.0 | 904.7 | 904.4 | 904.6 | 904.7 | 905.0 |
| 25° | 920.7 | 918.2 | 915.8 | 915.0 | 914.2 | 914.0 | 913.6 | 914.3 |
| 27.5° | 940.1 | 937.3 | 934.6 | 932.8 | 931.2 | 930.2 | 929.4 | 929.7 |
| 30° | 964.2 | 960.9 | 957.6 | 954.9 | 952.2 | 950.9 | 949.6 | 950.0 |
| 32.5° | 994.6 | 990.8 | 986.9 | 983.2 | 979.5 | 977.8 | 976.2 | 976.4 |
| 35° | 1033.4 | 1028.9 | 1024.4 | 1021.4 | 1018.3 | 1015.7 | 1013.0 | 1015.2 |
| 37.5° | 1084.2 | 1080.1 | 1075.9 | 1073.9 | 1071.8 | 1069.6 | 1067.2 | 1067.6 |
| 40° | 1152.5 | 1148.2 | 1143.9 | 1142.2 | 1140.6 | 1137.6 | 1134.6 | 1135.3 |
| 42.5° | 1239.4 | 1232.9 | 1226.4 | 1223.3 | 1220.2 | 1218.9 | 1217.5 | 1218.4 |
| 45° | 1332.9 | 1326.4 | 1320.0 | 1317.4 | 1314.8 | 1311.1 | 1307.4 | 1310.7 |
| 47.5° | 1435.1 | 1426.9 | 1418.8 | 1414.2 | 1409.6 | 1410.8 | 1412.0 | 1409.3 |
| 50° | 1549.9 | 1536.2 | 1522.5 | 1517.2 | 1511.8 | 1511.8 | 1511.8 | 1511.5 |
| 52.5° | 1666.0 | 1647.0 | 1628.2 | 1623.5 | 1618.9 | 1617.8 | 1616.7 | 1615.5 |
| 55° | 1787.9 | 1764.6 | 1741.4 | 1732.8 | 1724.2 | 1725.4 | 1726.6 | 1730.0 |
| 57.5° | 1913.5 | 1882.8 | 1852.2 | 1842.4 | 1832.6 | 1833.3 | 1834.0 | 1839.6 |
| 60° | 2044.0 | 2004.4 | 1964.9 | 1954.0 | 1943.0 | 1946.0 | 1948.9 | 1952.3 |
| 62.5° | 2193.3 | 2145.4 | 2097.6 | 2082.9 | 2068.3 | 2072.0 | 2075.7 | 2084.6 |
| 65° | 2380.8 | 2321.0 | 2261.3 | 2246.1 | 2230.9 | 2232.6 | 2234.2 | 2249.6 |
| 67.5° | 2637.2 | 2557.6 | 2478.0 | 2464.0 | 2450.0 | 2452.5 | 2455.0 | 2479.9 |
| 70° | 2964.7 | 2846.8 | 2728.9 | 2670.9 | 2612.9 | 2603.8 | 2594.7 | 2607.9 |
| 72° | 3034.9 | 2868.4 | 2701.9 | 2616.2 | 2530.6 | 2517.3 | 2503.9 | 2505.1 |
| 72.5° | 3002.6 | 2834.2 | 2665.8 | 2582.7 | 2499.6 | 2488.7 | 2477.8 | 2475.6 |
| 75° | 2836.0 | 2671.4 | 2506.6 | 2420.8 | 2334.9 | 2314.1 | 2293.4 | 2293.3 |
| 77.5° | 2636.6 | 2429.0 | 2221.4 | 2128.7 | 2036.0 | 2014.3 | 1992.6 | 1975.7 |
| 80° | 2065.2 | 1879.2 | 1693.0 | 1599.0 | 1505.0 | 1470.2 | 1435.4 | 1414.8 |
| 82.5° | 1215.6 | 1044.5 | 873.4 | 753.9 | 634.4 | 598.6 | 562.7 | 512.8 |
| 85° | 385.1 | 296.3 | 207.5 | 162.0 | 116.4 | 94.1 | 71.7 | 62.8 |
| 87.5° | 64.0 | 52.0 | 40.0 | 38.6 | 37.2 | 29.2 | 21.2 | 17.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)