

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: P161625

Luminaire Tested: **OVF-E03-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P161625
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33698)
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-5WQ-8030
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7761.9 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

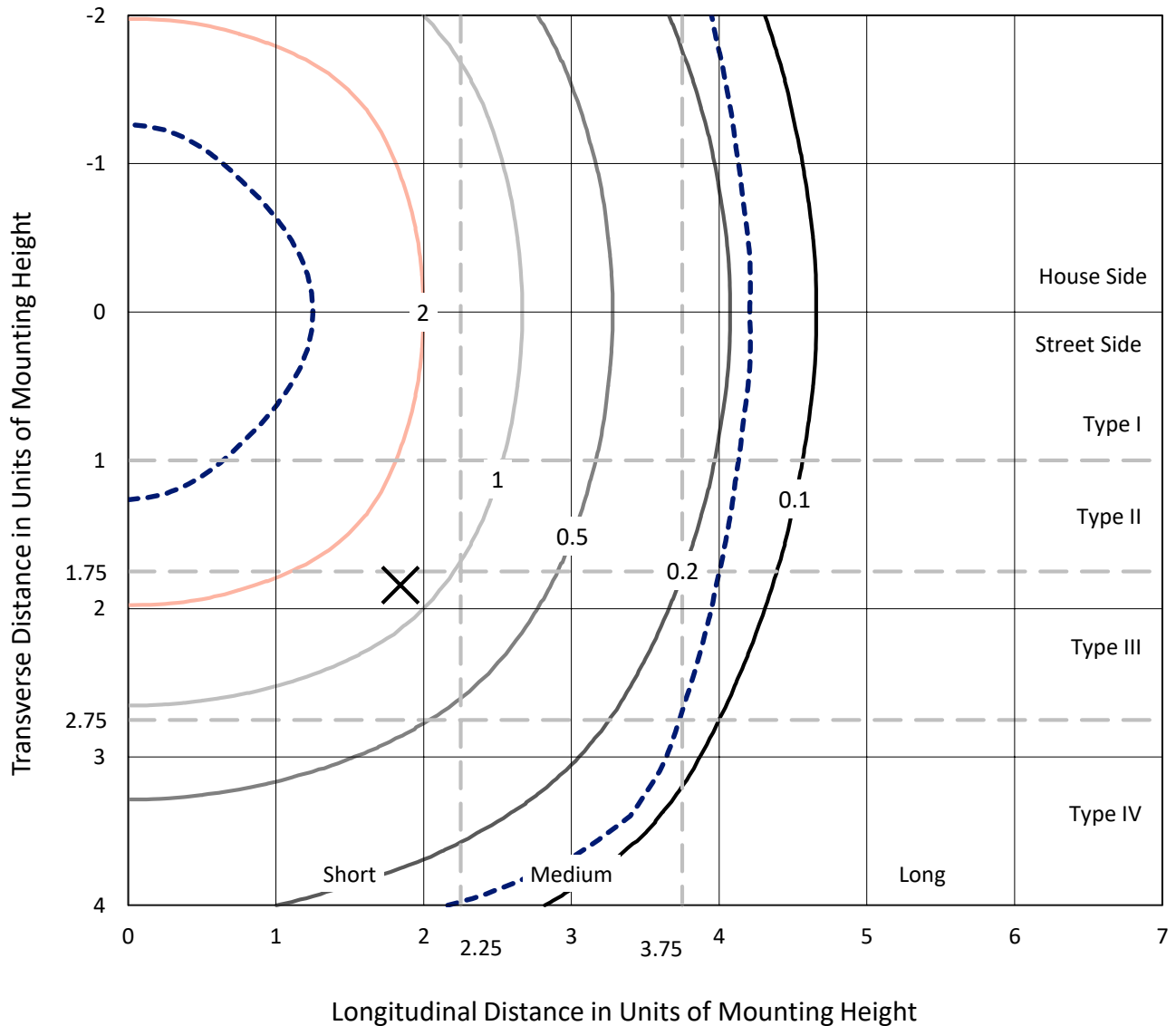
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

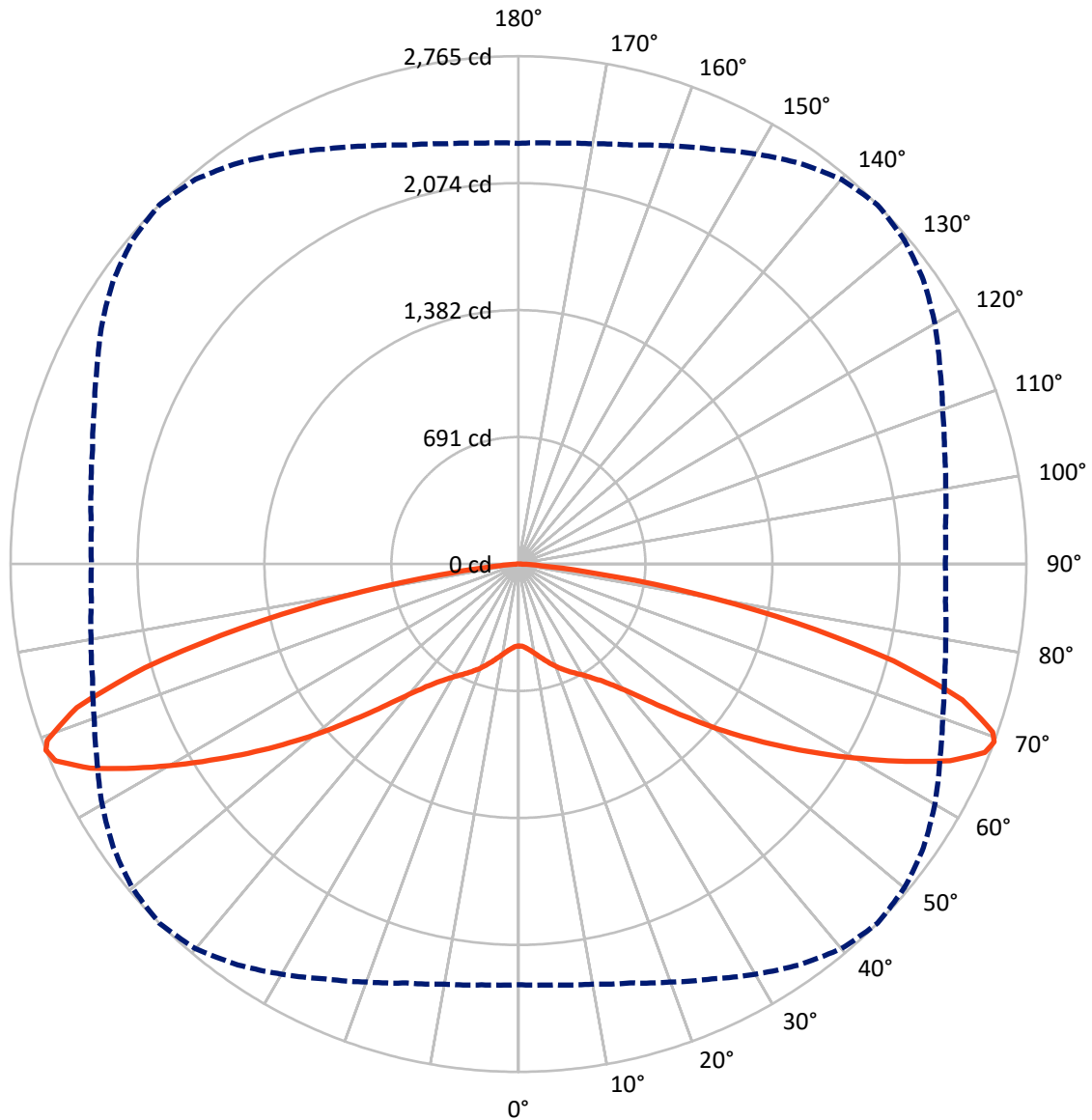
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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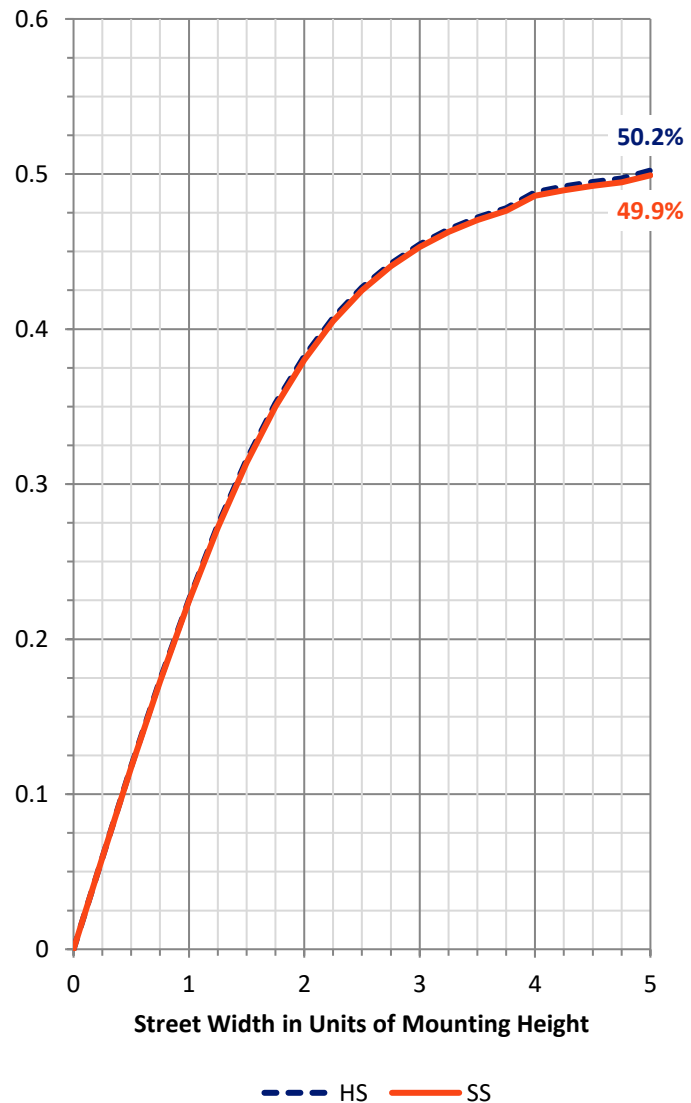
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3881.0 | 0.0 | 3881.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3881.0 | 0.0 | 3881.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7761.9 | 0.0 | 7761.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 45.0 | 0.6 |
| 10°-20° | 155.1 | 2.0 |
| 20°-30° | 299.0 | 3.9 |
| 30°-40° | 489.9 | 6.3 |
| 40°-50° | 851.9 | 11.0 |
| 50°-60° | 1513.3 | 19.5 |
| 60°-70° | 2349.5 | 30.3 |
| 70°-80° | 1872.0 | 24.1 |
| 80°-90° | 186.1 | 2.4 |
| 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° | 7761.9 | 100.0 |
| 0°-180° | 7761.9 | 100.0 |



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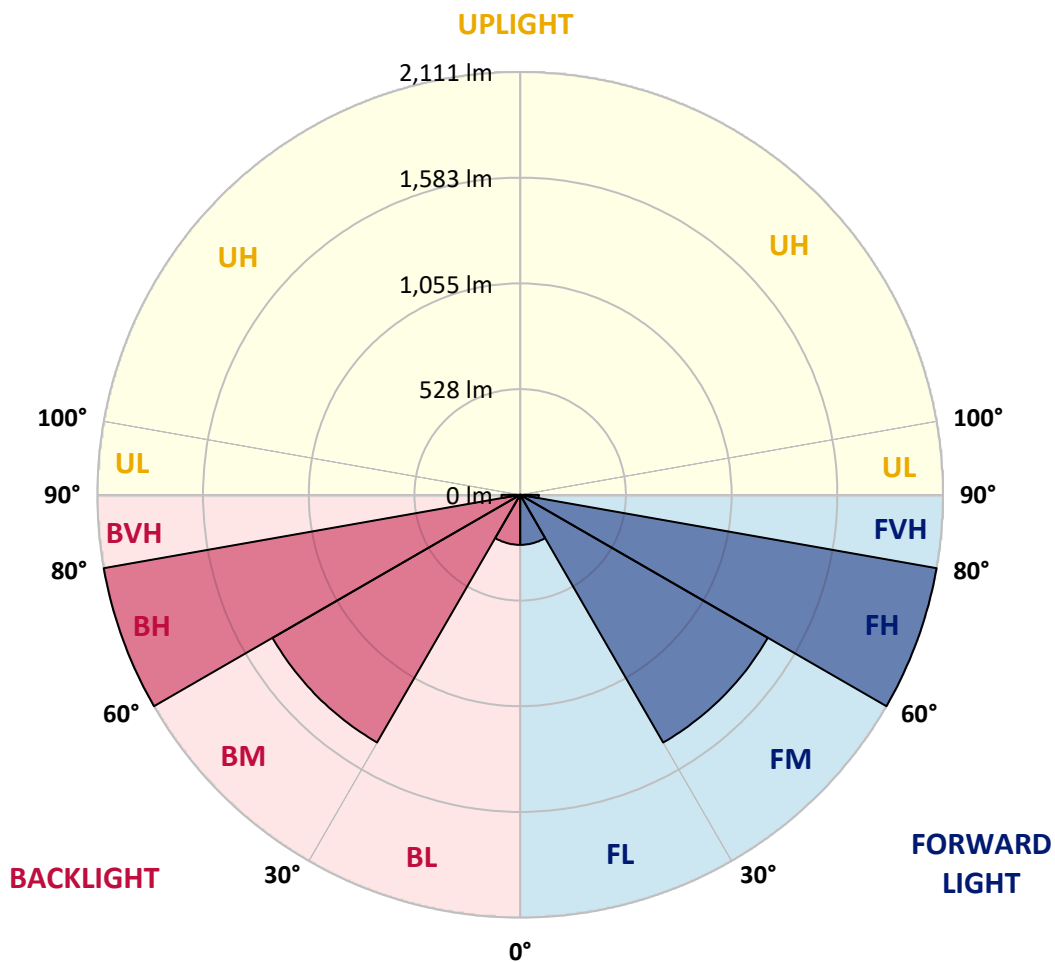
CATALOG NUMBER: OVF-E03-LED-E-U-5WQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 249.5 | 3.2 | | | |
| FM (30°-60°) | 1427.6 | 18.4 | | | |
| FH (60°-80°) | 2110.7 | 27.2 | | | G2/5000 |
| FVH (80°-90°) | 93.1 | 1.2 | | | G1/100 |
| BL (0°-30°) | 249.5 | 3.2 | B1/500 | | |
| BM (30°-60°) | 1427.6 | 18.4 | B2/2500 | | |
| BH (60°-80°) | 2110.7 | 27.2 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 93.1 | 1.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 446.1 | 446.1 | 446.1 | 446.1 | 446.1 | 446.1 | 446.1 | 446.1 | 446.1 | 446.1 | 446.1 |
| 2.5° | 449.7 | 449.7 | 449.7 | 449.2 | 449.2 | 448.7 | 449.2 | 448.7 | 448.7 | 448.7 | 448.7 |
| 5° | 461.3 | 460.3 | 460.3 | 459.8 | 460.8 | 460.8 | 459.8 | 460.3 | 459.8 | 460.3 | 460.3 |
| 7.5° | 476.0 | 476.0 | 476.0 | 475.5 | 476.5 | 476.0 | 475.5 | 476.0 | 476.0 | 475.5 | 475.5 |
| 10° | 494.2 | 494.7 | 494.2 | 494.2 | 495.8 | 495.3 | 495.8 | 495.8 | 496.3 | 495.8 | 495.8 |
| 12.5° | 515.5 | 515.5 | 516.0 | 516.5 | 517.0 | 517.5 | 519.1 | 518.5 | 519.6 | 518.5 | 518.5 |
| 15° | 540.3 | 541.3 | 540.3 | 540.3 | 541.8 | 542.9 | 543.4 | 543.4 | 544.4 | 543.9 | 542.9 |
| 17.5° | 566.7 | 567.2 | 566.7 | 566.1 | 567.7 | 569.2 | 569.7 | 569.7 | 571.2 | 570.2 | 570.2 |
| 20° | 593.5 | 594.0 | 593.0 | 592.5 | 594.5 | 594.5 | 595.5 | 596.0 | 597.5 | 598.1 | 596.5 |
| 22.5° | 618.3 | 618.8 | 618.3 | 617.8 | 619.8 | 619.8 | 621.3 | 621.9 | 623.9 | 623.4 | 623.4 |
| 25° | 642.6 | 642.6 | 642.1 | 642.1 | 644.1 | 644.6 | 646.2 | 647.2 | 649.2 | 649.2 | 649.2 |
| 27.5° | 664.9 | 665.4 | 664.4 | 663.9 | 667.9 | 669.5 | 670.5 | 672.5 | 674.0 | 675.0 | 674.5 |
| 30° | 690.2 | 690.2 | 689.7 | 691.2 | 693.8 | 695.8 | 697.8 | 700.9 | 703.9 | 702.9 | 702.9 |
| 32.5° | 720.1 | 721.1 | 720.6 | 722.6 | 725.7 | 728.7 | 731.2 | 734.8 | 736.3 | 738.8 | 736.8 |
| 35° | 760.1 | 762.1 | 761.1 | 763.1 | 765.7 | 767.7 | 773.3 | 776.8 | 779.3 | 780.9 | 779.8 |
| 37.5° | 810.2 | 809.2 | 811.2 | 811.8 | 816.8 | 819.3 | 825.9 | 831.0 | 835.0 | 836.6 | 835.6 |
| 40° | 872.5 | 871.0 | 873.5 | 876.1 | 882.6 | 885.2 | 892.8 | 900.4 | 905.9 | 908.0 | 907.0 |
| 42.5° | 947.0 | 949.0 | 953.0 | 956.6 | 965.7 | 972.8 | 981.4 | 992.5 | 998.6 | 1001.1 | 997.6 |
| 45° | 1044.7 | 1041.1 | 1048.7 | 1057.9 | 1062.9 | 1078.6 | 1092.8 | 1104.4 | 1114.6 | 1118.6 | 1114.6 |
| 47.5° | 1156.1 | 1155.6 | 1164.7 | 1175.8 | 1189.0 | 1203.7 | 1220.4 | 1235.6 | 1253.3 | 1254.3 | 1249.3 |
| 50° | 1279.2 | 1289.3 | 1294.3 | 1305.5 | 1329.8 | 1348.0 | 1369.3 | 1392.1 | 1408.3 | 1413.3 | 1404.2 |
| 52.5° | 1427.5 | 1435.1 | 1438.2 | 1456.9 | 1479.2 | 1501.5 | 1531.3 | 1558.7 | 1577.4 | 1579.4 | 1574.9 |
| 55° | 1588.6 | 1594.6 | 1600.2 | 1623.0 | 1647.3 | 1667.1 | 1705.0 | 1731.9 | 1750.6 | 1757.7 | 1754.7 |
| 57.5° | 1755.2 | 1760.7 | 1767.8 | 1792.6 | 1817.5 | 1845.3 | 1881.3 | 1912.7 | 1934.4 | 1947.6 | 1944.0 |
| 60° | 1940.0 | 1940.0 | 1956.2 | 1981.0 | 2001.3 | 2034.2 | 2071.7 | 2108.1 | 2131.9 | 2152.7 | 2147.1 |
| 62.5° | 2134.5 | 2140.0 | 2155.7 | 2176.0 | 2197.2 | 2227.6 | 2270.2 | 2313.7 | 2350.2 | 2365.9 | 2365.4 |
| 65° | 2281.8 | 2291.9 | 2312.7 | 2336.0 | 2371.4 | 2407.4 | 2461.1 | 2515.3 | 2559.3 | 2582.1 | 2582.1 |
| 67.5° | 2324.9 | 2331.4 | 2357.3 | 2392.7 | 2443.9 | 2501.1 | 2574.0 | 2649.5 | 2709.7 | 2739.6 | 2720.9 |
| 69° | 2290.4 | 2300.0 | 2322.8 | 2361.3 | 2422.1 | 2492.0 | 2578.6 | 2664.1 | 2734.0 | 2764.9 | 2743.1 |
| 70° | 2250.4 | 2261.1 | 2283.8 | 2321.8 | 2384.6 | 2459.1 | 2545.6 | 2637.8 | 2712.8 | 2739.1 | 2714.3 |
| 72.5° | 2087.4 | 2100.5 | 2116.7 | 2149.6 | 2206.4 | 2276.2 | 2354.2 | 2435.3 | 2507.2 | 2527.9 | 2497.0 |
| 75° | 1809.3 | 1811.9 | 1820.0 | 1844.3 | 1864.5 | 1914.2 | 1980.5 | 2044.8 | 2099.0 | 2111.2 | 2078.2 |
| 77.5° | 1280.7 | 1267.0 | 1253.3 | 1274.1 | 1290.3 | 1354.1 | 1426.0 | 1478.7 | 1535.4 | 1552.6 | 1519.2 |
| 80° | 561.6 | 556.5 | 575.8 | 603.1 | 674.5 | 717.1 | 787.4 | 862.9 | 911.0 | 967.2 | 907.0 |
| 82.5° | 110.9 | 117.0 | 135.2 | 167.1 | 206.1 | 259.3 | 305.4 | 357.5 | 404.6 | 425.9 | 404.1 |
| 85° | 45.1 | 49.1 | 55.7 | 62.3 | 66.8 | 74.9 | 88.1 | 109.4 | 120.5 | 122.0 | 116.0 |
| 87.5° | 18.7 | 21.8 | 29.4 | 34.9 | 35.4 | 33.9 | 34.9 | 36.0 | 29.4 | 23.8 | 29.9 |
| 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: OVF-E03-LED-E-U-5WQ-8030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 446.1 | 446.1 | 446.1 | 446.1 | 446.1 | 446.1 | 446.1 | 446.1 |
| 2.5° | 448.7 | 449.2 | 448.7 | 449.2 | 448.7 | 448.7 | 449.2 | 448.7 |
| 5° | 459.8 | 460.3 | 459.8 | 459.3 | 458.8 | 459.3 | 459.3 | 459.3 |
| 7.5° | 475.5 | 475.0 | 474.5 | 474.5 | 474.0 | 473.5 | 474.5 | 474.5 |
| 10° | 494.7 | 494.2 | 493.2 | 493.2 | 492.7 | 492.7 | 492.7 | 492.7 |
| 12.5° | 518.0 | 516.5 | 516.0 | 514.5 | 514.0 | 513.5 | 513.5 | 514.0 |
| 15° | 542.3 | 540.8 | 540.3 | 537.8 | 537.8 | 537.3 | 537.3 | 537.3 |
| 17.5° | 568.2 | 566.7 | 564.6 | 564.6 | 563.1 | 562.1 | 562.6 | 561.6 |
| 20° | 594.5 | 592.5 | 591.5 | 591.0 | 588.9 | 588.9 | 588.9 | 588.4 |
| 22.5° | 620.3 | 618.8 | 617.3 | 615.3 | 613.2 | 612.7 | 612.7 | 612.2 |
| 25° | 646.7 | 644.1 | 641.1 | 639.1 | 637.0 | 635.5 | 635.5 | 635.5 |
| 27.5° | 673.0 | 670.0 | 665.4 | 662.9 | 659.8 | 658.3 | 658.3 | 657.8 |
| 30° | 700.9 | 697.3 | 693.3 | 689.7 | 685.7 | 684.1 | 683.6 | 682.6 |
| 32.5° | 734.3 | 730.7 | 726.7 | 721.6 | 717.6 | 715.0 | 715.0 | 713.5 |
| 35° | 776.8 | 772.8 | 769.7 | 763.1 | 758.1 | 754.0 | 754.5 | 755.5 |
| 37.5° | 832.5 | 827.4 | 824.9 | 816.8 | 810.2 | 806.2 | 806.2 | 805.7 |
| 40° | 903.4 | 898.3 | 892.8 | 885.2 | 877.1 | 871.5 | 870.0 | 870.0 |
| 42.5° | 993.5 | 989.0 | 981.4 | 970.8 | 961.1 | 955.1 | 950.0 | 950.5 |
| 45° | 1106.5 | 1100.9 | 1090.3 | 1077.1 | 1065.5 | 1056.8 | 1049.8 | 1049.8 |
| 47.5° | 1243.7 | 1232.1 | 1217.4 | 1205.7 | 1186.0 | 1172.8 | 1167.7 | 1166.7 |
| 50° | 1400.2 | 1378.4 | 1360.2 | 1343.5 | 1322.7 | 1309.0 | 1301.4 | 1299.4 |
| 52.5° | 1564.3 | 1541.5 | 1518.7 | 1496.9 | 1471.6 | 1457.4 | 1445.3 | 1444.2 |
| 55° | 1742.5 | 1713.6 | 1684.8 | 1663.5 | 1633.6 | 1618.9 | 1606.8 | 1599.7 |
| 57.5° | 1924.3 | 1891.9 | 1871.1 | 1840.7 | 1809.3 | 1798.7 | 1787.1 | 1778.5 |
| 60° | 2128.9 | 2093.4 | 2066.1 | 2034.2 | 2013.9 | 1991.1 | 1980.0 | 1973.4 |
| 62.5° | 2338.0 | 2305.1 | 2270.2 | 2239.8 | 2211.4 | 2195.7 | 2180.5 | 2172.9 |
| 65° | 2550.7 | 2496.5 | 2455.0 | 2413.0 | 2379.5 | 2351.2 | 2327.4 | 2324.4 |
| 67.5° | 2681.4 | 2613.0 | 2543.6 | 2482.3 | 2433.2 | 2393.2 | 2368.9 | 2360.3 |
| 69° | 2692.0 | 2617.6 | 2531.0 | 2457.5 | 2400.8 | 2362.3 | 2333.5 | 2324.4 |
| 70° | 2662.6 | 2587.7 | 2496.5 | 2417.5 | 2358.8 | 2316.8 | 2293.0 | 2277.8 |
| 72.5° | 2447.9 | 2382.1 | 2294.5 | 2216.5 | 2163.3 | 2114.2 | 2090.4 | 2084.3 |
| 75° | 2019.5 | 1949.6 | 1869.1 | 1831.6 | 1794.7 | 1763.8 | 1747.6 | 1746.0 |
| 77.5° | 1434.1 | 1362.7 | 1301.4 | 1252.3 | 1212.3 | 1192.6 | 1197.1 | 1180.4 |
| 80° | 820.9 | 727.7 | 653.8 | 610.2 | 551.0 | 515.5 | 475.5 | 504.4 |
| 82.5° | 353.0 | 285.1 | 217.2 | 176.7 | 134.7 | 106.8 | 88.1 | 82.0 |
| 85° | 98.7 | 80.5 | 67.4 | 61.8 | 55.7 | 49.6 | 42.0 | 39.0 |
| 87.5° | 33.4 | 31.9 | 28.4 | 28.4 | 25.8 | 21.8 | 15.2 | 13.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)