

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: P144753

Luminaire Tested: **OVH-F02-LED-E-U-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144753
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33700)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVH-F02-LED-E-U-RW-8030
Description: OVH LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4185.5 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 55
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

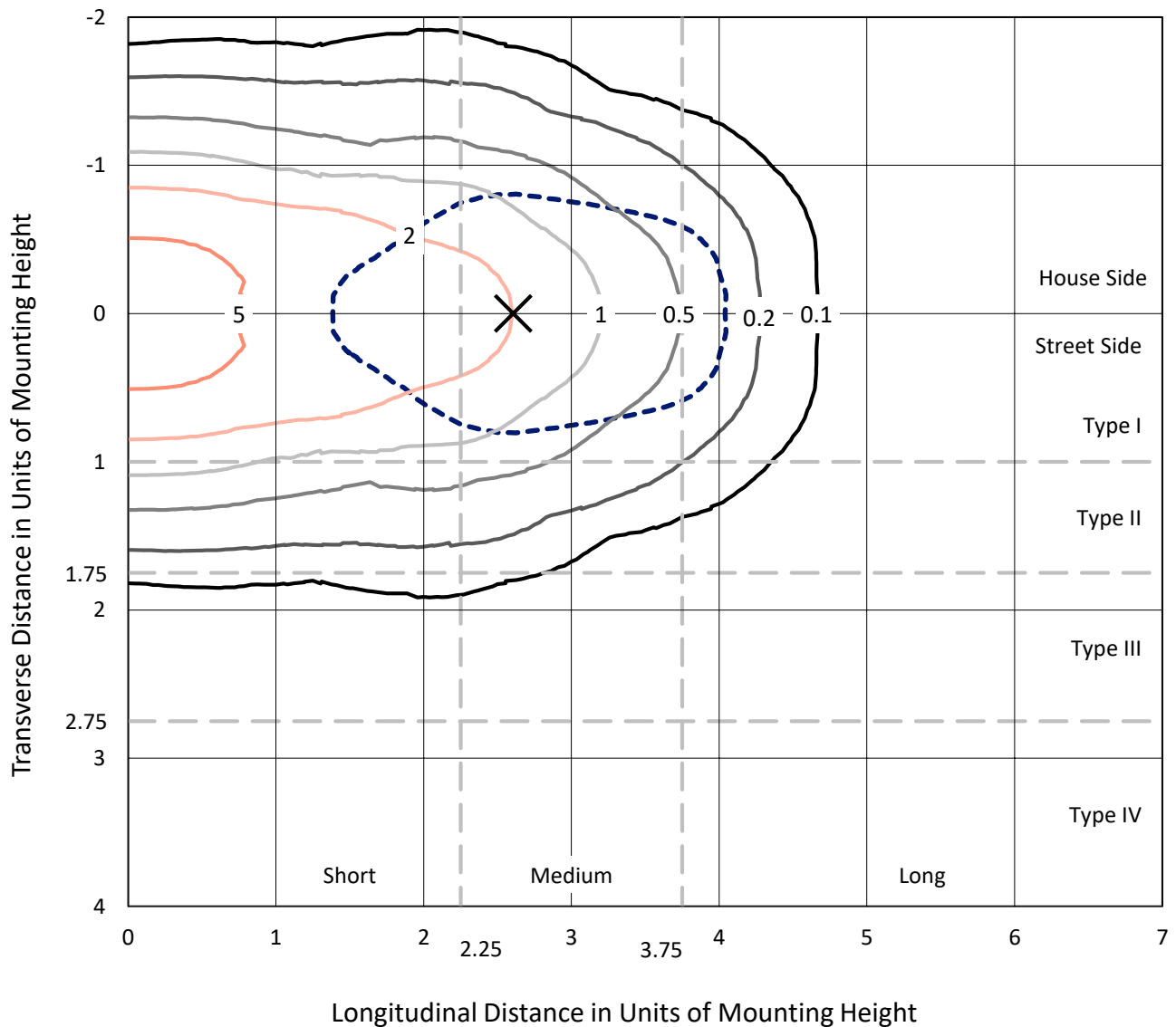


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

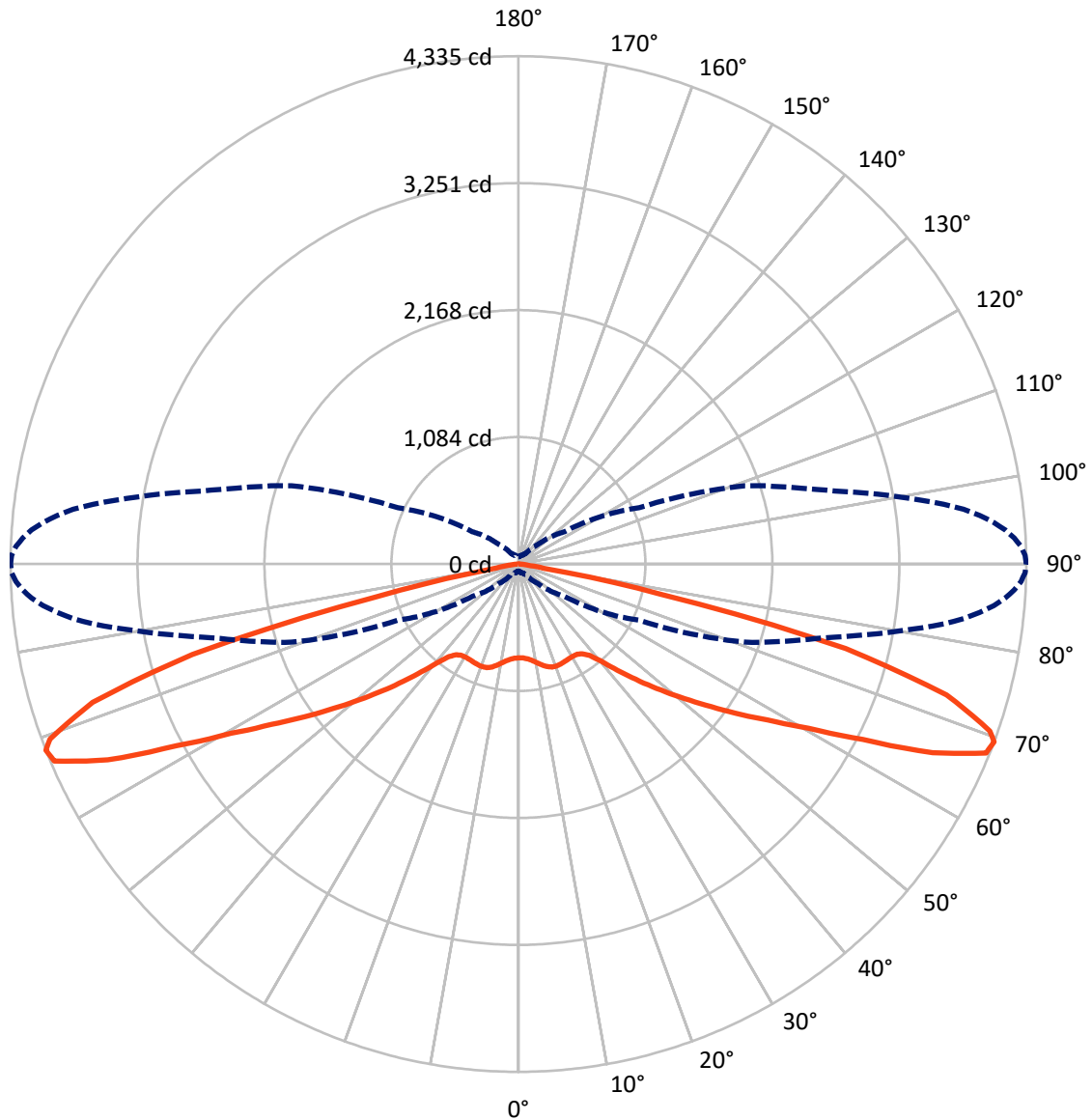


Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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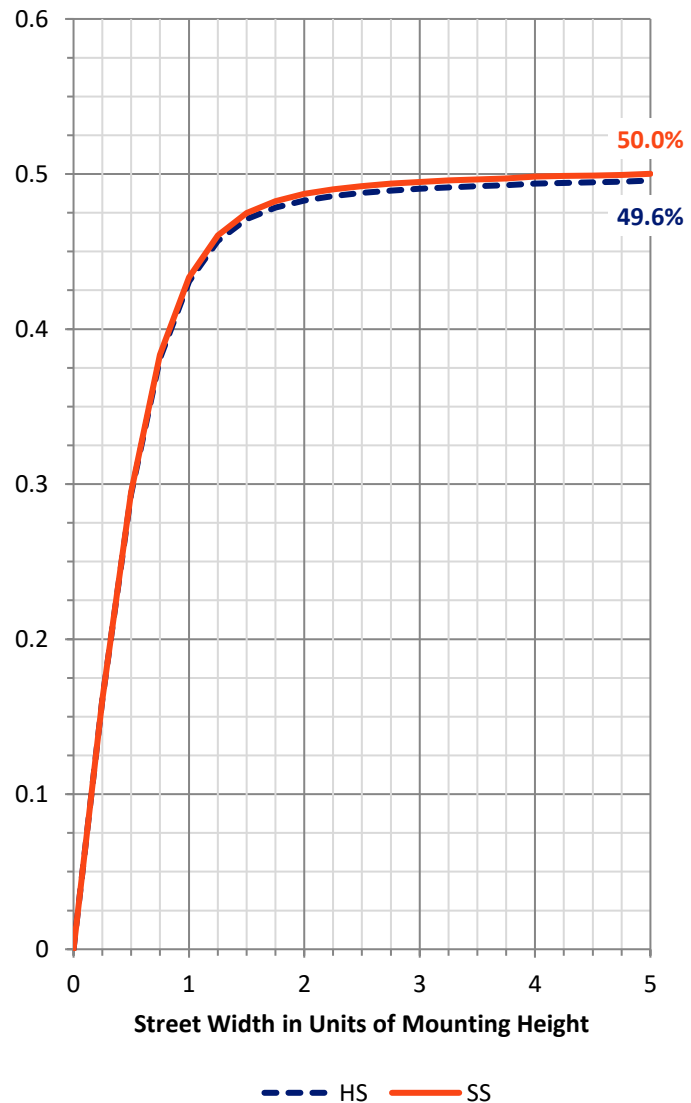
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2092.8 | 0.0 | 2092.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2092.8 | 0.0 | 2092.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4185.5 | 0.0 | 4185.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 78.4 | 1.9 |
| 10°-20° | 247.0 | 5.9 |
| 20°-30° | 400.0 | 9.6 |
| 30°-40° | 498.3 | 11.9 |
| 40°-50° | 620.3 | 14.8 |
| 50°-60° | 761.2 | 18.2 |
| 60°-70° | 938.8 | 22.4 |
| 70°-80° | 583.6 | 13.9 |
| 80°-90° | 58.0 | 1.4 |
| 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° | 4185.5 | 100.0 |
| 0°-180° | 4185.5 | 100.0 |



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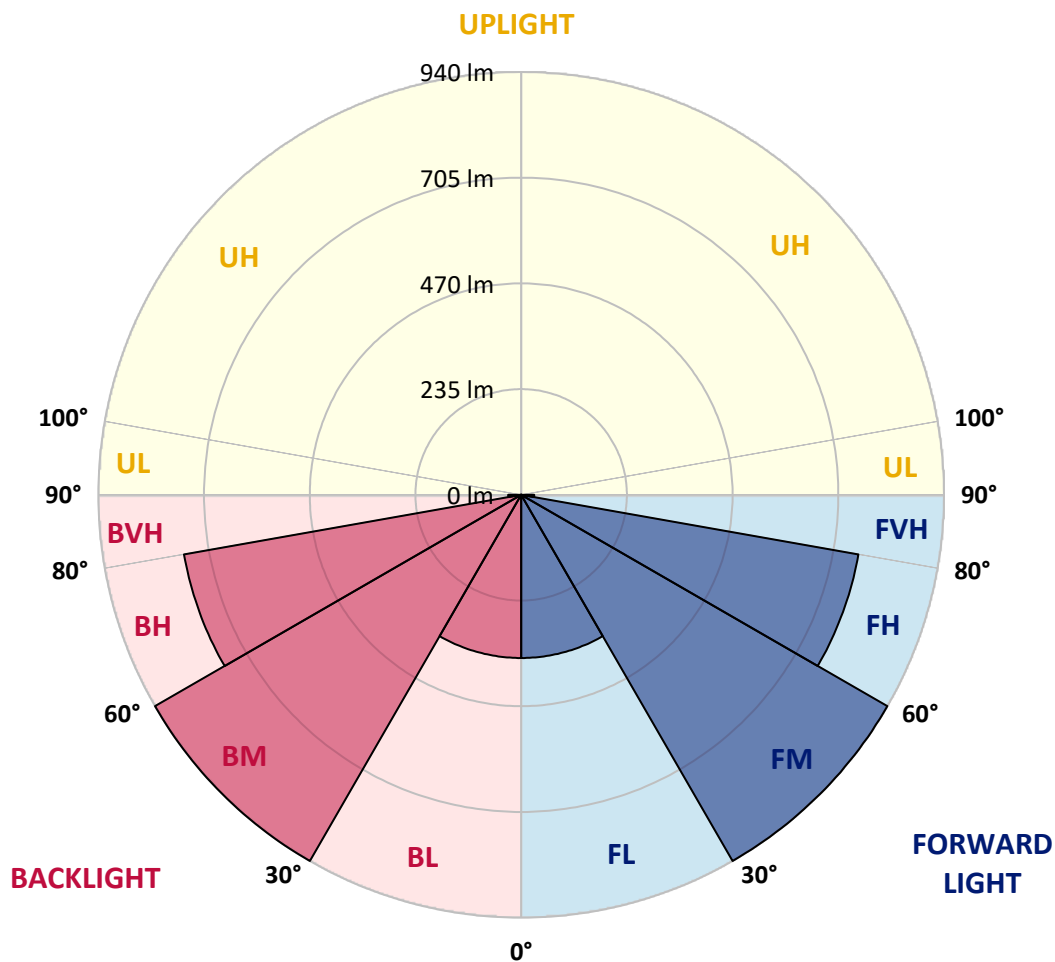
CATALOG NUMBER: OVH-F02-LED-E-U-RW-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 362.7 | 8.7 | | | |
| FM | (30°-60°) | 939.9 | 22.5 | | | |
| FH | (60°-80°) | 761.2 | 18.2 | | | G1/1800 |
| FVH | (80°-90°) | 29.0 | 0.7 | | | G1/100 |
| BL | (0°-30°) | 362.7 | 8.7 | B1/500 | | |
| BM | (30°-60°) | 939.9 | 22.5 | B1/1000 | | |
| BH | (60°-80°) | 761.2 | 18.2 | B2/1000 | | G1/1800 |
| BVH | (80°-90°) | 29.0 | 0.7 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type V Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0° | 801.5 | 801.5 | 801.5 | 801.5 | 801.5 | 801.5 | 801.5 | 801.5 | 801.5 | 801.5 | 801.5 |
| 2.5° | 803.6 | 802.8 | 804.3 | 805.7 | 805.2 | 805.6 | 805.0 | 804.3 | 804.4 | 804.4 | 804.5 |
| 5° | 809.9 | 809.0 | 810.4 | 811.7 | 812.1 | 813.1 | 813.4 | 813.0 | 813.2 | 813.3 | 813.6 |
| 7.5° | 817.4 | 816.7 | 818.5 | 820.2 | 823.4 | 825.0 | 826.8 | 828.4 | 828.5 | 828.7 | 828.8 |
| 10° | 824.6 | 824.1 | 827.0 | 830.6 | 835.8 | 839.7 | 844.4 | 849.0 | 849.4 | 849.8 | 850.1 |
| 12.5° | 829.2 | 829.1 | 833.6 | 840.2 | 849.0 | 857.0 | 865.0 | 872.8 | 873.6 | 874.3 | 875.0 |
| 15° | 828.8 | 829.4 | 836.2 | 848.2 | 863.6 | 877.6 | 887.5 | 896.0 | 896.7 | 897.4 | 898.1 |
| 17.5° | 823.1 | 823.2 | 833.0 | 852.1 | 876.0 | 897.0 | 909.8 | 914.4 | 914.6 | 914.9 | 915.2 |
| 20° | 807.1 | 808.2 | 822.0 | 849.7 | 885.8 | 914.7 | 926.8 | 924.8 | 924.4 | 924.0 | 923.6 |
| 22.5° | 779.6 | 781.1 | 799.4 | 836.6 | 887.6 | 926.1 | 938.6 | 929.8 | 928.5 | 927.2 | 925.8 |
| 25° | 741.4 | 743.8 | 763.8 | 811.4 | 875.4 | 929.4 | 946.3 | 932.2 | 930.1 | 928.0 | 926.0 |
| 27.5° | 697.2 | 698.4 | 722.0 | 772.0 | 846.8 | 918.3 | 949.8 | 937.1 | 934.5 | 931.9 | 929.2 |
| 30° | 646.2 | 649.1 | 673.6 | 725.8 | 806.6 | 892.4 | 948.4 | 946.6 | 943.6 | 940.7 | 937.8 |
| 32.5° | 595.3 | 597.8 | 621.9 | 678.2 | 760.1 | 856.2 | 941.4 | 961.0 | 958.5 | 956.0 | 953.6 |
| 35° | 544.0 | 547.1 | 571.9 | 632.4 | 714.0 | 815.3 | 930.4 | 981.4 | 980.4 | 979.3 | 978.3 |
| 37.5° | 499.0 | 501.0 | 525.4 | 588.2 | 673.6 | 777.8 | 916.0 | 1008.8 | 1011.2 | 1013.6 | 1016.0 |
| 40° | 453.2 | 455.2 | 480.6 | 545.0 | 636.4 | 745.8 | 902.8 | 1043.4 | 1050.0 | 1056.6 | 1063.1 |
| 42.5° | 409.1 | 410.8 | 435.4 | 499.7 | 595.0 | 718.0 | 894.8 | 1085.2 | 1097.8 | 1110.4 | 1122.9 |
| 45° | 364.0 | 365.1 | 388.2 | 450.8 | 547.8 | 685.8 | 892.8 | 1132.2 | 1150.3 | 1168.5 | 1186.6 |
| 47.5° | 319.5 | 322.2 | 346.0 | 405.4 | 493.8 | 639.5 | 889.8 | 1184.2 | 1208.2 | 1232.3 | 1256.3 |
| 50° | 277.0 | 280.0 | 304.5 | 360.8 | 441.7 | 584.6 | 874.1 | 1243.1 | 1272.4 | 1301.7 | 1331.1 |
| 52.5° | 233.7 | 236.6 | 261.2 | 314.9 | 393.4 | 522.7 | 830.6 | 1305.0 | 1339.9 | 1374.7 | 1409.6 |
| 55° | 187.4 | 188.6 | 213.8 | 267.6 | 345.0 | 470.8 | 761.4 | 1361.7 | 1403.9 | 1446.1 | 1488.4 |
| 57.5° | 136.2 | 140.0 | 165.0 | 215.2 | 295.7 | 425.0 | 673.3 | 1390.6 | 1443.4 | 1496.1 | 1548.8 |
| 60° | 98.4 | 100.9 | 122.8 | 162.2 | 239.8 | 380.0 | 595.2 | 1369.5 | 1439.8 | 1510.2 | 1580.6 |
| 62.5° | 77.8 | 80.6 | 97.4 | 122.2 | 185.5 | 330.6 | 544.2 | 1311.4 | 1410.1 | 1508.8 | 1607.5 |
| 65° | 68.8 | 71.4 | 87.0 | 99.2 | 141.9 | 279.6 | 512.1 | 1253.8 | 1387.0 | 1520.2 | 1653.4 |
| 67.5° | 62.8 | 65.5 | 79.2 | 87.6 | 117.2 | 247.0 | 496.9 | 1210.4 | 1364.2 | 1518.0 | 1671.8 |
| 69° | 60.0 | 62.4 | 75.0 | 82.8 | 110.5 | 235.8 | 480.6 | 1136.8 | 1289.3 | 1441.8 | 1594.3 |
| 70° | 58.5 | 60.6 | 72.0 | 79.8 | 107.8 | 226.6 | 456.5 | 1049.2 | 1196.4 | 1343.6 | 1490.7 |
| 72.5° | 54.2 | 55.6 | 65.2 | 72.5 | 98.6 | 180.9 | 344.3 | 740.4 | 865.1 | 989.8 | 1114.6 |
| 75° | 48.0 | 49.8 | 58.2 | 64.9 | 75.2 | 108.7 | 215.6 | 429.8 | 515.2 | 600.7 | 686.2 |
| 77.5° | 41.2 | 43.2 | 50.2 | 60.8 | 60.6 | 70.8 | 130.8 | 246.8 | 288.3 | 329.8 | 371.4 |
| 80° | 35.4 | 37.1 | 43.4 | 60.0 | 50.7 | 56.0 | 97.6 | 184.1 | 200.8 | 217.5 | 234.3 |
| 82.5° | 27.7 | 29.2 | 36.4 | 49.6 | 40.6 | 42.6 | 74.3 | 167.6 | 179.0 | 190.3 | 201.6 |
| 85° | 17.5 | 18.0 | 26.5 | 34.3 | 28.8 | 25.8 | 47.8 | 129.0 | 137.3 | 145.6 | 153.8 |
| 87.5° | 7.0 | 8.5 | 12.8 | 12.2 | 12.4 | 10.3 | 15.5 | 46.6 | 50.8 | 55.0 | 59.2 |
| 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: OVH-F02-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 801.5 | 801.5 | 801.5 | 801.5 | 801.5 | 801.5 | 801.5 | 801.5 | 801.5 | 801.5 | 801.5 |
| 2.5° | 804.5 | 804.6 | 804.3 | 803.9 | 804.3 | 803.9 | 804.0 | 804.4 | 804.3 | 804.3 | 804.1 |
| 5° | 813.8 | 814.0 | 813.9 | 813.1 | 813.5 | 813.6 | 813.8 | 813.5 | 813.7 | 813.9 | 813.4 |
| 7.5° | 829.0 | 829.1 | 829.6 | 830.0 | 829.6 | 829.8 | 830.1 | 829.8 | 829.4 | 830.4 | 829.7 |
| 10° | 850.5 | 850.8 | 850.9 | 852.2 | 851.6 | 852.0 | 853.2 | 853.2 | 852.5 | 853.5 | 853.2 |
| 12.5° | 875.8 | 876.5 | 876.4 | 876.2 | 876.8 | 877.2 | 878.6 | 878.8 | 879.2 | 880.6 | 880.1 |
| 15° | 898.8 | 899.5 | 900.0 | 900.3 | 901.3 | 901.6 | 902.4 | 903.0 | 903.4 | 904.0 | 904.2 |
| 17.5° | 915.4 | 915.6 | 916.4 | 916.0 | 917.5 | 917.2 | 918.2 | 918.6 | 919.0 | 919.7 | 920.2 |
| 20° | 923.2 | 922.8 | 922.8 | 922.4 | 922.4 | 922.8 | 922.8 | 923.4 | 923.2 | 923.9 | 924.4 |
| 22.5° | 924.5 | 923.2 | 922.4 | 921.4 | 921.0 | 920.2 | 920.1 | 920.4 | 919.4 | 920.2 | 921.0 |
| 25° | 923.9 | 921.8 | 920.2 | 918.6 | 917.0 | 915.6 | 914.8 | 914.6 | 913.8 | 913.8 | 914.6 |
| 27.5° | 926.6 | 924.0 | 921.8 | 919.0 | 917.0 | 915.0 | 913.3 | 911.9 | 910.5 | 910.2 | 910.2 |
| 30° | 934.9 | 932.0 | 929.4 | 926.0 | 922.9 | 920.4 | 917.9 | 915.9 | 913.3 | 912.2 | 910.9 |
| 32.5° | 951.1 | 948.6 | 945.2 | 942.1 | 938.5 | 935.4 | 932.0 | 929.0 | 926.0 | 923.2 | 922.0 |
| 35° | 977.2 | 976.2 | 974.2 | 972.1 | 968.6 | 964.7 | 962.0 | 958.3 | 954.8 | 950.8 | 949.6 |
| 37.5° | 1018.4 | 1020.8 | 1019.8 | 1018.2 | 1017.2 | 1016.0 | 1012.2 | 1009.8 | 1007.5 | 1004.1 | 1003.4 |
| 40° | 1069.6 | 1076.2 | 1082.7 | 1087.0 | 1085.5 | 1090.7 | 1091.6 | 1091.9 | 1089.8 | 1092.6 | 1093.2 |
| 42.5° | 1135.5 | 1148.1 | 1159.9 | 1168.6 | 1178.6 | 1186.2 | 1195.8 | 1200.0 | 1208.0 | 1216.2 | 1220.9 |
| 45° | 1204.8 | 1222.9 | 1239.9 | 1257.6 | 1275.1 | 1294.2 | 1312.6 | 1325.8 | 1344.8 | 1359.1 | 1368.0 |
| 47.5° | 1280.4 | 1304.4 | 1324.8 | 1351.2 | 1376.4 | 1399.1 | 1431.5 | 1457.6 | 1480.8 | 1503.0 | 1526.2 |
| 50° | 1360.4 | 1389.7 | 1414.8 | 1447.1 | 1477.8 | 1513.1 | 1551.2 | 1584.4 | 1620.9 | 1656.2 | 1687.4 |
| 52.5° | 1444.4 | 1479.3 | 1513.2 | 1546.4 | 1583.5 | 1622.0 | 1663.2 | 1711.2 | 1755.0 | 1808.0 | 1846.0 |
| 55° | 1530.6 | 1572.8 | 1608.9 | 1643.6 | 1683.0 | 1725.7 | 1774.8 | 1831.4 | 1887.0 | 1945.2 | 2002.8 |
| 57.5° | 1601.5 | 1654.2 | 1693.6 | 1734.2 | 1776.7 | 1818.9 | 1879.8 | 1937.9 | 2008.4 | 2079.8 | 2151.9 |
| 60° | 1650.9 | 1721.2 | 1769.0 | 1820.3 | 1869.5 | 1920.8 | 1986.4 | 2059.8 | 2148.0 | 2234.4 | 2332.6 |
| 62.5° | 1706.2 | 1804.8 | 1871.8 | 1940.2 | 2000.0 | 2061.6 | 2149.4 | 2234.0 | 2347.3 | 2446.8 | 2570.2 |
| 65° | 1786.6 | 1919.8 | 2018.4 | 2110.7 | 2191.0 | 2274.9 | 2378.9 | 2484.7 | 2614.3 | 2751.8 | 2906.6 |
| 67.5° | 1825.6 | 1979.4 | 2108.6 | 2222.4 | 2325.0 | 2431.9 | 2539.3 | 2664.4 | 2810.5 | 2976.0 | 3146.0 |
| 69° | 1746.8 | 1899.3 | 2047.8 | 2163.0 | 2270.9 | 2385.0 | 2500.0 | 2626.3 | 2770.1 | 2941.9 | 3122.1 |
| 70° | 1637.9 | 1785.0 | 1943.0 | 2058.3 | 2167.2 | 2285.8 | 2402.8 | 2530.2 | 2667.8 | 2844.8 | 3027.0 |
| 72.5° | 1239.3 | 1364.1 | 1517.4 | 1639.3 | 1753.8 | 1873.6 | 1994.0 | 2104.7 | 2244.2 | 2414.5 | 2582.4 |
| 75° | 771.7 | 857.2 | 994.9 | 1117.4 | 1209.6 | 1312.1 | 1425.2 | 1530.0 | 1670.1 | 1790.8 | 1952.2 |
| 77.5° | 412.9 | 454.4 | 534.8 | 622.6 | 673.9 | 723.9 | 797.7 | 854.5 | 913.4 | 983.2 | 1050.0 |
| 80° | 251.0 | 267.7 | 295.1 | 314.1 | 307.0 | 286.5 | 280.0 | 259.4 | 266.8 | 254.3 | 245.2 |
| 82.5° | 213.0 | 224.4 | 241.0 | 252.5 | 244.2 | 211.4 | 174.3 | 146.7 | 127.2 | 108.6 | 92.2 |
| 85° | 162.0 | 170.3 | 179.0 | 184.0 | 183.7 | 167.4 | 133.0 | 103.0 | 80.3 | 62.2 | 51.7 |
| 87.5° | 63.5 | 67.7 | 74.0 | 73.0 | 76.2 | 76.8 | 60.1 | 46.4 | 33.0 | 22.3 | 19.6 |
| 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):

| | 80° | 81° | 82° | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 801.5 | 801.5 | 801.5 | 801.5 | 801.5 | 801.5 | 801.5 | 801.5 | 801.5 | 801.5 | 801.5 |
| 2.5° | 803.5 | 803.3 | 803.4 | 803.8 | 803.9 | 804.2 | 803.9 | 804.0 | 803.6 | 803.2 | 803.5 |
| 5° | 813.4 | 813.1 | 813.3 | 813.6 | 813.6 | 813.4 | 814.1 | 814.1 | 813.8 | 813.4 | 813.5 |
| 7.5° | 830.4 | 830.5 | 830.1 | 831.5 | 830.2 | 830.4 | 831.2 | 831.1 | 830.8 | 830.9 | 831.1 |
| 10° | 854.0 | 854.0 | 854.2 | 855.0 | 853.8 | 854.6 | 855.6 | 855.8 | 855.2 | 855.2 | 855.3 |
| 12.5° | 880.2 | 881.4 | 881.6 | 882.0 | 882.0 | 882.8 | 882.9 | 883.0 | 883.6 | 883.8 | 882.9 |
| 15° | 905.4 | 906.2 | 906.7 | 907.3 | 906.6 | 907.6 | 908.7 | 908.7 | 908.6 | 909.1 | 908.3 |
| 17.5° | 920.8 | 921.5 | 922.4 | 922.4 | 922.5 | 923.4 | 924.0 | 924.3 | 924.6 | 924.6 | 924.7 |
| 20° | 925.6 | 926.1 | 926.6 | 927.2 | 927.5 | 928.4 | 928.8 | 929.3 | 929.6 | 929.3 | 929.4 |
| 22.5° | 921.8 | 922.4 | 923.5 | 923.8 | 924.0 | 925.2 | 925.8 | 926.2 | 926.6 | 926.8 | 926.4 |
| 25° | 915.1 | 915.6 | 916.8 | 917.2 | 917.5 | 918.6 | 919.3 | 920.2 | 920.6 | 920.6 | 920.8 |
| 27.5° | 910.5 | 910.8 | 911.6 | 912.2 | 912.3 | 913.6 | 914.6 | 915.2 | 915.4 | 915.6 | 915.5 |
| 30° | 910.6 | 910.6 | 911.6 | 911.8 | 911.6 | 912.7 | 913.2 | 913.7 | 914.0 | 914.0 | 914.1 |
| 32.5° | 920.2 | 919.7 | 920.5 | 919.2 | 919.4 | 919.3 | 919.1 | 919.6 | 919.2 | 919.4 | 918.9 |
| 35° | 947.4 | 945.8 | 944.6 | 945.2 | 943.2 | 940.4 | 942.0 | 941.2 | 939.8 | 939.9 | 940.3 |
| 37.5° | 999.5 | 998.0 | 999.4 | 998.2 | 998.6 | 994.6 | 995.6 | 992.2 | 991.2 | 992.4 | 988.8 |
| 40° | 1092.0 | 1091.4 | 1094.0 | 1092.9 | 1093.6 | 1094.7 | 1095.6 | 1092.4 | 1086.8 | 1091.8 | 1091.9 |
| 42.5° | 1220.2 | 1226.5 | 1229.0 | 1232.5 | 1236.3 | 1234.6 | 1238.0 | 1238.9 | 1232.8 | 1237.4 | 1238.5 |
| 45° | 1381.1 | 1387.8 | 1395.6 | 1398.0 | 1404.1 | 1404.9 | 1407.4 | 1408.1 | 1402.5 | 1403.1 | 1404.3 |
| 47.5° | 1549.5 | 1561.8 | 1571.0 | 1577.4 | 1583.8 | 1585.1 | 1586.4 | 1583.8 | 1584.2 | 1585.4 | 1585.5 |
| 50° | 1715.1 | 1741.3 | 1757.6 | 1770.3 | 1781.2 | 1775.6 | 1780.4 | 1780.8 | 1782.5 | 1779.0 | 1781.1 |
| 52.5° | 1889.2 | 1923.8 | 1951.2 | 1972.4 | 1979.2 | 1999.4 | 1991.2 | 1997.6 | 2001.8 | 1995.4 | 1999.6 |
| 55° | 2059.2 | 2108.6 | 2152.5 | 2183.4 | 2205.2 | 2225.8 | 2229.0 | 2245.6 | 2243.6 | 2249.9 | 2247.1 |
| 57.5° | 2220.8 | 2289.9 | 2352.6 | 2398.4 | 2429.6 | 2461.1 | 2482.5 | 2500.6 | 2502.4 | 2520.4 | 2510.2 |
| 60° | 2416.3 | 2512.6 | 2593.2 | 2661.6 | 2707.6 | 2754.5 | 2791.4 | 2821.1 | 2827.9 | 2858.7 | 2848.5 |
| 62.5° | 2680.0 | 2797.5 | 2900.6 | 2980.8 | 3083.5 | 3133.0 | 3204.9 | 3249.7 | 3277.8 | 3285.4 | 3299.7 |
| 65° | 3050.8 | 3203.8 | 3339.9 | 3468.0 | 3583.6 | 3663.7 | 3746.9 | 3813.8 | 3867.4 | 3863.0 | 3885.0 |
| 67.5° | 3326.4 | 3500.8 | 3664.6 | 3818.2 | 3942.5 | 4045.7 | 4141.2 | 4213.6 | 4261.5 | 4292.0 | 4305.0 |
| 69° | 3297.6 | 3485.0 | 3665.6 | 3829.7 | 3957.9 | 4073.1 | 4166.2 | 4237.4 | 4292.3 | 4325.5 | 4335.1 |
| 70° | 3202.2 | 3394.6 | 3582.9 | 3744.0 | 3874.7 | 4001.2 | 4096.0 | 4175.2 | 4227.5 | 4263.8 | 4269.3 |
| 72.5° | 2769.8 | 2978.2 | 3144.8 | 3320.5 | 3446.3 | 3574.4 | 3634.0 | 3732.2 | 3800.4 | 3822.4 | 3822.0 |
| 75° | 2089.1 | 2263.0 | 2409.4 | 2539.2 | 2651.8 | 2738.6 | 2766.8 | 2836.6 | 2893.2 | 2892.6 | 2887.3 |
| 77.5° | 1125.0 | 1165.9 | 1220.6 | 1239.0 | 1273.8 | 1273.2 | 1238.4 | 1249.4 | 1281.4 | 1219.3 | 1239.4 |
| 80° | 241.4 | 237.8 | 234.7 | 232.8 | 231.9 | 232.3 | 233.6 | 225.6 | 233.4 | 229.9 | 215.2 |
| 82.5° | 84.1 | 82.1 | 80.2 | 81.6 | 80.6 | 81.4 | 81.1 | 82.1 | 82.0 | 81.6 | 79.7 |
| 85° | 47.2 | 45.6 | 44.6 | 45.3 | 43.8 | 42.4 | 41.4 | 41.0 | 40.8 | 39.8 | 39.3 |
| 87.5° | 18.0 | 17.8 | 17.7 | 17.0 | 15.3 | 14.0 | 13.2 | 11.6 | 10.9 | 9.9 | 9.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)