

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: P162097

Luminaire Tested: **OVF-E02-LED-E-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P162097
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33694)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVF-E02-LED-E-U-T2
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5997.1 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 52.1
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

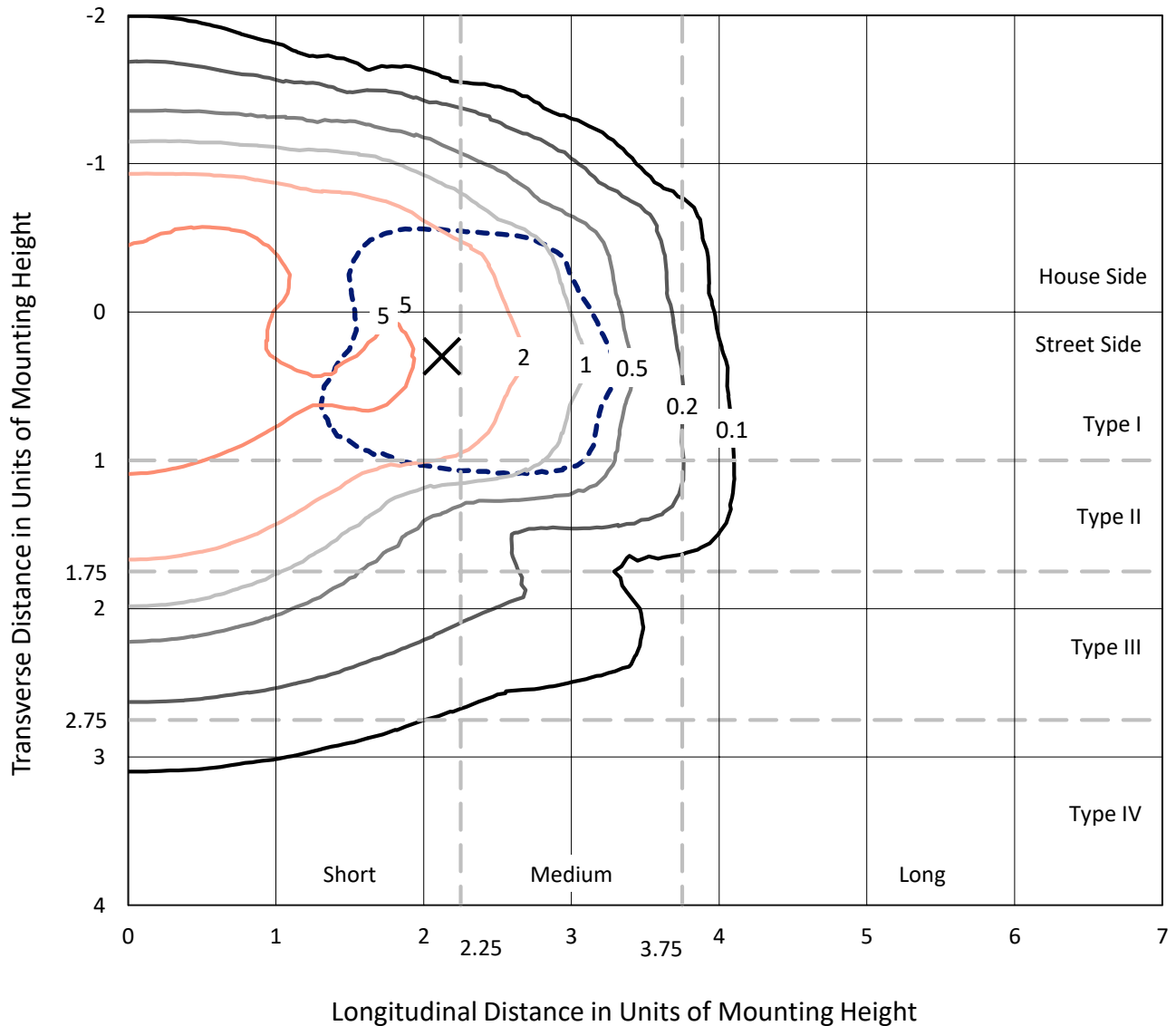


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Iso-Footcandle Lines of Horizontal Illumination

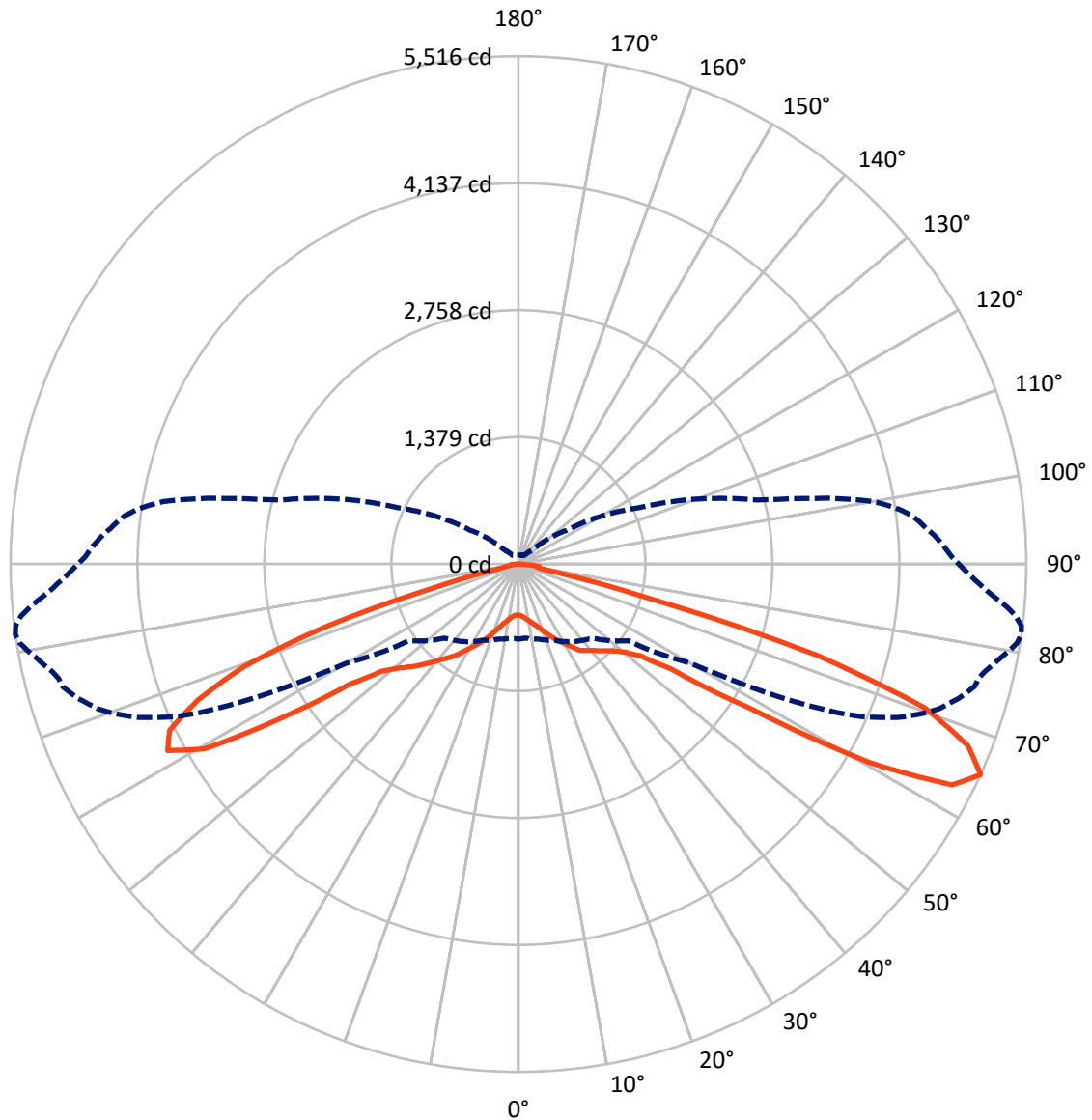
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2207.6 | 0.0 | 2207.6 |
| | % Fixture | 36.8 | 0.0 | 36.8 |
| Street Side | Lumens | 3789.5 | 0.0 | 3789.5 |
| | % Fixture | 63.2 | 0.0 | 63.2 |
| Total | Lumens | 5997.1 | 0.0 | 5997.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 56.4 | 0.9 |
| 10°-20° | 198.6 | 3.3 |
| 20°-30° | 393.9 | 6.6 |
| 30°-40° | 672.2 | 11.2 |
| 40°-50° | 1007.9 | 16.8 |
| 50°-60° | 1402.9 | 23.4 |
| 60°-70° | 1611.8 | 26.9 |
| 70°-80° | 556.2 | 9.3 |
| 80°-90° | 97.3 | 1.6 |
| 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° | 5997.1 | 100.0 |
| 0°-180° | 5997.1 | 100.0 |

Coefficient of Utilization



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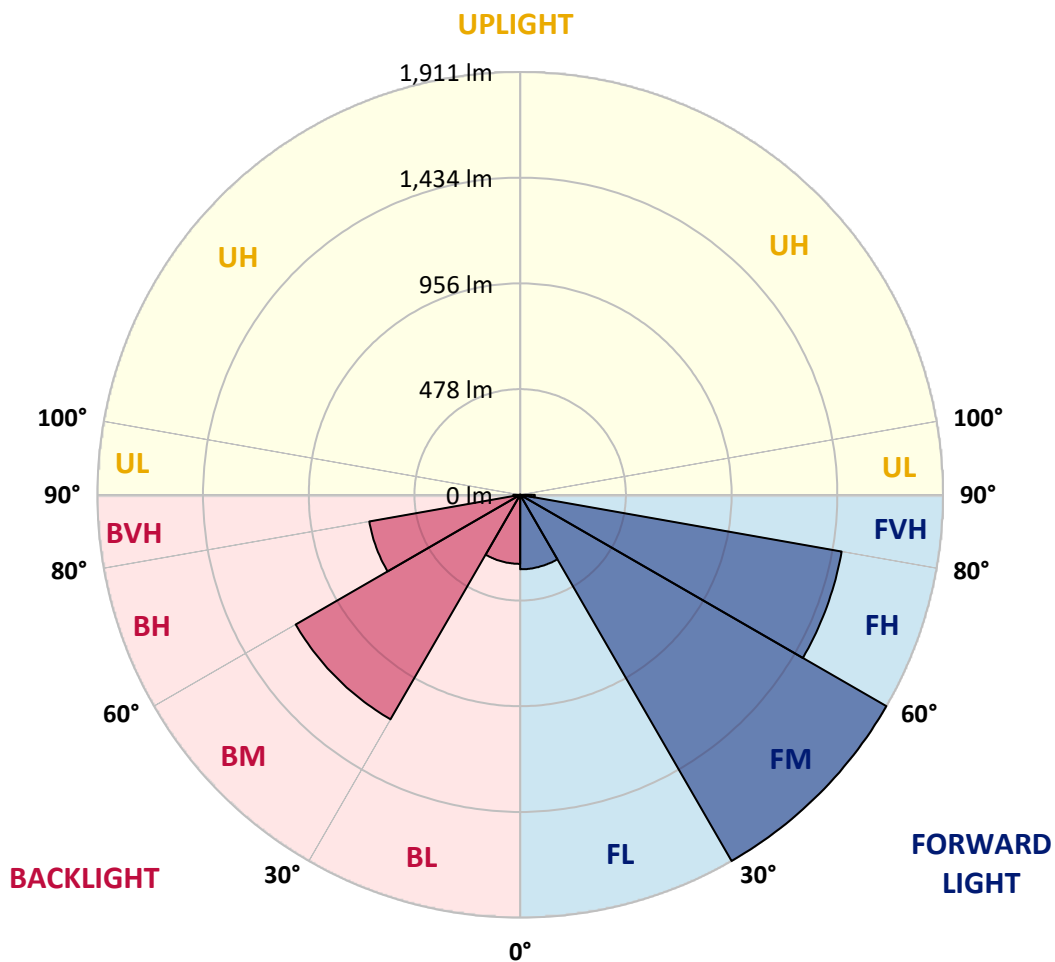
CATALOG NUMBER: OVF-E02-LED-E-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 336.6 | 5.6 | | | |
| FM | (30°-60°) | 1911.4 | 31.9 | | | |
| FH | (60°-80°) | 1475.5 | 24.6 | | | G1/1800 |
| FVH | (80°-90°) | 66.1 | 1.1 | | | G1/100 |
| BL | (0°-30°) | 312.3 | 5.2 | B1/500 | | |
| BM | (30°-60°) | 1171.6 | 19.5 | B2/2500 | | |
| BH | (60°-80°) | 692.5 | 11.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 31.2 | 0.5 | | | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 |
| 2.5° | 586.4 | 586.0 | 585.6 | 584.0 | 583.2 | 580.0 | 576.8 | 574.8 | 573.2 | 574.0 | 571.6 |
| 5° | 620.4 | 620.4 | 618.8 | 616.8 | 614.4 | 610.0 | 602.0 | 598.0 | 597.2 | 597.2 | 594.4 |
| 7.5° | 655.2 | 657.6 | 653.2 | 651.6 | 647.6 | 640.8 | 631.6 | 626.4 | 624.8 | 624.8 | 622.4 |
| 10° | 699.2 | 698.0 | 693.2 | 690.0 | 682.0 | 672.8 | 660.4 | 654.4 | 652.0 | 654.0 | 650.0 |
| 12.5° | 745.6 | 745.2 | 738.0 | 732.0 | 720.8 | 706.0 | 689.6 | 681.6 | 680.0 | 680.0 | 677.6 |
| 15° | 792.8 | 793.2 | 785.2 | 774.0 | 756.4 | 736.4 | 718.0 | 710.4 | 708.4 | 707.6 | 704.8 |
| 17.5° | 828.8 | 832.8 | 824.8 | 810.4 | 788.8 | 766.8 | 747.2 | 739.6 | 739.2 | 738.4 | 735.2 |
| 20° | 849.2 | 850.0 | 845.6 | 835.2 | 816.0 | 794.8 | 781.2 | 777.6 | 777.2 | 777.6 | 778.4 |
| 22.5° | 848.4 | 849.6 | 848.0 | 844.0 | 831.6 | 820.0 | 818.4 | 820.4 | 821.6 | 820.4 | 823.2 |
| 25° | 842.0 | 843.6 | 843.6 | 845.6 | 842.4 | 846.4 | 859.2 | 864.8 | 865.2 | 866.0 | 872.0 |
| 27.5° | 856.0 | 857.6 | 857.2 | 860.8 | 863.6 | 877.6 | 900.8 | 910.8 | 912.0 | 914.8 | 920.4 |
| 30° | 920.8 | 921.2 | 914.0 | 913.6 | 916.4 | 927.6 | 951.2 | 962.8 | 961.6 | 967.2 | 970.8 |
| 32.5° | 1023.2 | 1026.4 | 1019.2 | 1011.6 | 1010.4 | 1012.0 | 1016.4 | 1024.4 | 1023.2 | 1026.0 | 1030.8 |
| 35° | 1140.0 | 1140.4 | 1136.4 | 1140.8 | 1143.2 | 1132.4 | 1111.6 | 1109.6 | 1103.2 | 1104.4 | 1106.0 |
| 37.5° | 1247.2 | 1250.0 | 1257.6 | 1285.6 | 1301.6 | 1275.2 | 1234.4 | 1208.8 | 1204.8 | 1202.8 | 1188.8 |
| 40° | 1347.6 | 1361.6 | 1380.0 | 1416.4 | 1438.4 | 1448.0 | 1390.0 | 1338.4 | 1324.4 | 1318.8 | 1296.8 |
| 42.5° | 1465.2 | 1472.4 | 1494.0 | 1535.6 | 1564.8 | 1608.4 | 1569.6 | 1512.8 | 1496.4 | 1472.4 | 1444.8 |
| 45° | 1564.8 | 1569.6 | 1583.2 | 1618.4 | 1679.6 | 1752.4 | 1756.8 | 1717.2 | 1704.4 | 1680.4 | 1640.0 |
| 47.5° | 1631.6 | 1631.2 | 1641.2 | 1675.6 | 1755.2 | 1866.4 | 1932.4 | 1930.8 | 1916.0 | 1907.6 | 1873.2 |
| 50° | 1657.6 | 1657.2 | 1663.6 | 1702.0 | 1788.8 | 1934.4 | 2080.0 | 2130.0 | 2129.6 | 2132.8 | 2115.2 |
| 52.5° | 1662.4 | 1662.0 | 1662.8 | 1693.6 | 1782.0 | 1958.0 | 2186.4 | 2304.4 | 2321.6 | 2343.2 | 2362.8 |
| 55° | 1626.4 | 1630.4 | 1639.2 | 1671.6 | 1756.4 | 1948.4 | 2265.2 | 2468.0 | 2509.2 | 2553.2 | 2624.4 |
| 57.5° | 1543.2 | 1550.8 | 1581.2 | 1639.2 | 1729.2 | 1924.8 | 2320.0 | 2670.4 | 2754.0 | 2860.4 | 3053.2 |
| 60° | 1424.0 | 1430.8 | 1472.8 | 1549.6 | 1650.0 | 1822.0 | 2256.4 | 2755.2 | 2914.0 | 3098.8 | 3494.0 |
| 62.5° | 1213.2 | 1232.4 | 1254.8 | 1309.2 | 1414.4 | 1552.8 | 1970.8 | 2612.0 | 2858.0 | 3129.2 | 3673.2 |
| 65° | 814.8 | 806.8 | 844.0 | 913.2 | 1028.8 | 1136.4 | 1452.0 | 2154.4 | 2465.6 | 2838.8 | 3512.0 |
| 67.5° | 504.4 | 505.6 | 530.8 | 598.4 | 685.6 | 769.2 | 920.4 | 1373.2 | 1649.2 | 2004.0 | 2813.6 |
| 70° | 416.8 | 421.6 | 442.0 | 504.8 | 579.2 | 673.6 | 683.2 | 728.0 | 851.6 | 1023.2 | 1738.0 |
| 72.5° | 330.8 | 332.8 | 353.6 | 406.0 | 511.2 | 640.8 | 811.2 | 553.2 | 543.6 | 569.6 | 881.6 |
| 75° | 205.2 | 206.8 | 217.2 | 250.8 | 331.6 | 499.2 | 893.2 | 636.0 | 596.0 | 562.4 | 568.0 |
| 77.5° | 106.0 | 109.2 | 114.8 | 130.0 | 174.0 | 278.8 | 703.2 | 806.4 | 760.8 | 715.2 | 626.0 |
| 80° | 60.0 | 60.0 | 65.2 | 68.8 | 82.4 | 113.6 | 357.6 | 872.8 | 953.6 | 973.2 | 874.0 |
| 82.5° | 26.8 | 30.0 | 40.4 | 43.2 | 47.2 | 52.0 | 118.4 | 524.4 | 727.6 | 908.8 | 1123.2 |
| 85° | 16.0 | 15.6 | 25.6 | 28.0 | 29.2 | 24.8 | 44.4 | 214.0 | 340.0 | 497.6 | 744.4 |
| 87.5° | 6.4 | 6.8 | 10.8 | 11.6 | 13.6 | 10.0 | 16.8 | 46.0 | 67.6 | 98.0 | 138.4 |
| 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-E02-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 |
| 2.5° | 571.2 | 571.2 | 570.8 | 570.4 | 570.0 | 568.8 | 568.4 | 567.6 | 567.2 | 566.0 | 565.6 |
| 5° | 594.0 | 592.8 | 592.4 | 591.6 | 591.2 | 589.6 | 589.6 | 588.0 | 586.8 | 585.2 | 584.8 |
| 7.5° | 621.2 | 619.6 | 618.4 | 617.6 | 617.2 | 614.4 | 614.4 | 612.0 | 611.6 | 609.6 | 608.8 |
| 10° | 648.8 | 647.6 | 646.0 | 645.2 | 644.8 | 643.2 | 641.6 | 640.0 | 638.8 | 637.6 | 636.0 |
| 12.5° | 676.4 | 674.0 | 673.2 | 672.0 | 671.2 | 670.0 | 669.6 | 666.0 | 666.0 | 664.8 | 663.2 |
| 15° | 703.2 | 702.8 | 700.0 | 699.6 | 698.8 | 699.2 | 696.8 | 697.2 | 696.0 | 694.0 | 693.2 |
| 17.5° | 736.0 | 733.2 | 734.4 | 732.4 | 732.8 | 732.0 | 731.2 | 730.8 | 731.6 | 731.2 | 732.0 |
| 20° | 776.8 | 776.0 | 777.2 | 774.4 | 777.2 | 777.6 | 776.8 | 778.8 | 778.0 | 778.8 | 776.4 |
| 22.5° | 825.2 | 822.4 | 822.4 | 824.4 | 825.6 | 829.2 | 827.2 | 828.8 | 830.4 | 831.6 | 830.0 |
| 25° | 874.0 | 873.2 | 874.8 | 876.4 | 878.8 | 882.0 | 881.2 | 881.6 | 884.8 | 886.8 | 887.2 |
| 27.5° | 923.6 | 923.6 | 928.4 | 928.4 | 931.6 | 935.2 | 936.4 | 938.0 | 940.4 | 943.2 | 943.2 |
| 30° | 974.8 | 974.8 | 979.2 | 983.2 | 984.8 | 989.2 | 991.6 | 994.0 | 998.4 | 999.2 | 1002.8 |
| 32.5° | 1033.2 | 1034.4 | 1038.8 | 1041.2 | 1044.8 | 1050.0 | 1050.8 | 1053.6 | 1058.8 | 1060.4 | 1063.2 |
| 35° | 1109.2 | 1105.2 | 1109.2 | 1113.6 | 1115.6 | 1114.0 | 1122.8 | 1126.4 | 1130.0 | 1132.0 | 1135.6 |
| 37.5° | 1187.6 | 1180.8 | 1181.2 | 1180.4 | 1175.6 | 1178.4 | 1178.4 | 1177.6 | 1180.0 | 1179.6 | 1181.2 |
| 40° | 1286.8 | 1274.8 | 1271.2 | 1263.6 | 1253.2 | 1247.6 | 1241.6 | 1240.8 | 1234.8 | 1237.2 | 1232.8 |
| 42.5° | 1422.8 | 1404.8 | 1395.2 | 1371.6 | 1358.8 | 1343.6 | 1328.8 | 1316.0 | 1309.2 | 1301.6 | 1296.0 |
| 45° | 1609.6 | 1588.4 | 1565.2 | 1527.2 | 1505.2 | 1474.8 | 1455.2 | 1426.0 | 1406.4 | 1390.0 | 1378.4 |
| 47.5° | 1844.0 | 1808.4 | 1789.6 | 1754.0 | 1715.6 | 1669.6 | 1627.6 | 1586.8 | 1553.6 | 1517.6 | 1489.2 |
| 50° | 2116.4 | 2072.0 | 2057.2 | 2010.0 | 1988.4 | 1936.8 | 1892.0 | 1841.6 | 1789.6 | 1735.2 | 1683.2 |
| 52.5° | 2357.6 | 2352.4 | 2358.4 | 2326.8 | 2326.0 | 2300.0 | 2250.4 | 2191.6 | 2143.2 | 2088.4 | 2020.0 |
| 55° | 2646.8 | 2698.4 | 2709.6 | 2705.2 | 2728.8 | 2728.0 | 2723.2 | 2717.2 | 2678.8 | 2601.2 | 2577.6 |
| 57.5° | 3157.2 | 3215.2 | 3300.8 | 3339.6 | 3425.2 | 3435.2 | 3514.4 | 3483.6 | 3542.4 | 3526.4 | 3537.2 |
| 60° | 3676.8 | 3854.8 | 4017.2 | 4140.8 | 4260.8 | 4370.0 | 4503.6 | 4560.8 | 4603.6 | 4670.4 | 4740.8 |
| 62.5° | 3909.2 | 4133.6 | 4327.2 | 4503.2 | 4652.4 | 4790.8 | 4905.6 | 5014.4 | 5100.0 | 5176.8 | 5236.0 |
| 65° | 3815.2 | 4075.6 | 4264.4 | 4448.0 | 4587.2 | 4716.0 | 4830.0 | 4911.6 | 4996.8 | 5066.4 | 5129.2 |
| 67.5° | 3176.4 | 3523.2 | 3769.6 | 3978.0 | 4152.8 | 4299.6 | 4418.0 | 4530.4 | 4590.8 | 4666.8 | 4700.8 |
| 70° | 2104.0 | 2548.8 | 2897.2 | 3178.8 | 3456.0 | 3622.4 | 3762.8 | 3893.6 | 3962.4 | 4024.0 | 4062.0 |
| 72.5° | 1155.6 | 1459.6 | 1831.6 | 2166.4 | 2432.8 | 2651.2 | 2814.8 | 2938.8 | 3009.6 | 3062.4 | 3007.6 |
| 75° | 654.8 | 804.8 | 986.8 | 1172.0 | 1374.0 | 1528.0 | 1571.2 | 1624.0 | 1636.4 | 1609.2 | 1538.8 |
| 77.5° | 602.0 | 602.0 | 602.4 | 598.0 | 606.8 | 617.6 | 611.2 | 600.4 | 551.6 | 540.8 | 525.6 |
| 80° | 782.8 | 697.6 | 606.4 | 498.0 | 406.0 | 342.4 | 322.8 | 324.4 | 340.0 | 370.4 | 404.0 |
| 82.5° | 1109.6 | 1025.6 | 894.0 | 728.8 | 580.0 | 455.2 | 373.2 | 335.6 | 335.2 | 365.6 | 409.2 |
| 85° | 809.2 | 816.0 | 786.8 | 696.0 | 555.2 | 437.2 | 353.2 | 271.2 | 244.8 | 244.8 | 241.6 |
| 87.5° | 141.6 | 146.0 | 126.0 | 112.8 | 78.8 | 55.6 | 50.0 | 44.0 | 43.6 | 45.2 | 41.6 |
| 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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CATALOG NUMBER: OVF-E02-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

| | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° | 86° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 |
| 2.5° | 565.6 | 564.8 | 564.0 | 563.6 | 563.6 | 562.8 | 562.8 | 562.0 | 562.4 | 562.0 | 560.8 |
| 5° | 584.0 | 583.6 | 582.4 | 580.4 | 580.0 | 578.4 | 578.8 | 577.2 | 577.2 | 576.4 | 574.4 |
| 7.5° | 607.2 | 606.4 | 605.6 | 604.0 | 602.4 | 602.4 | 599.6 | 599.6 | 597.6 | 596.8 | 595.2 |
| 10° | 634.8 | 632.4 | 631.2 | 629.6 | 629.2 | 628.8 | 626.0 | 626.0 | 623.6 | 623.2 | 622.0 |
| 12.5° | 662.0 | 660.4 | 659.2 | 658.4 | 656.4 | 656.0 | 654.8 | 653.6 | 652.4 | 651.6 | 651.2 |
| 15° | 691.6 | 690.8 | 689.6 | 689.6 | 689.6 | 687.6 | 686.4 | 685.6 | 685.6 | 684.4 | 685.2 |
| 17.5° | 730.0 | 731.2 | 729.6 | 728.8 | 727.6 | 729.6 | 727.6 | 727.6 | 728.8 | 728.8 | 726.0 |
| 20° | 777.6 | 779.2 | 777.6 | 778.0 | 777.2 | 777.6 | 778.0 | 778.8 | 780.4 | 777.6 | 778.0 |
| 22.5° | 830.4 | 830.8 | 832.0 | 830.8 | 832.8 | 831.6 | 834.0 | 836.0 | 835.6 | 834.8 | 835.2 |
| 25° | 888.0 | 886.8 | 887.2 | 890.8 | 893.6 | 892.8 | 893.2 | 896.4 | 895.6 | 894.8 | 895.2 |
| 27.5° | 946.4 | 945.6 | 946.8 | 950.0 | 953.2 | 952.8 | 952.0 | 954.4 | 954.4 | 952.4 | 953.2 |
| 30° | 1004.4 | 1005.6 | 1007.6 | 1007.6 | 1009.2 | 1010.8 | 1009.6 | 1012.4 | 1012.8 | 1011.2 | 1013.2 |
| 32.5° | 1065.6 | 1068.0 | 1067.2 | 1072.8 | 1072.8 | 1073.2 | 1074.4 | 1074.0 | 1078.0 | 1074.8 | 1076.0 |
| 35° | 1139.2 | 1140.0 | 1144.8 | 1148.8 | 1151.2 | 1153.2 | 1153.2 | 1154.4 | 1156.4 | 1154.8 | 1157.2 |
| 37.5° | 1184.0 | 1185.6 | 1187.2 | 1189.6 | 1189.6 | 1189.6 | 1191.6 | 1192.0 | 1193.2 | 1192.8 | 1193.6 |
| 40° | 1233.2 | 1233.6 | 1234.0 | 1234.4 | 1236.0 | 1236.8 | 1234.8 | 1237.6 | 1235.6 | 1236.4 | 1237.6 |
| 42.5° | 1292.8 | 1287.2 | 1288.0 | 1286.8 | 1289.6 | 1286.0 | 1286.8 | 1290.0 | 1288.4 | 1290.8 | 1290.8 |
| 45° | 1362.0 | 1355.6 | 1350.0 | 1346.8 | 1346.8 | 1342.0 | 1342.8 | 1344.0 | 1346.0 | 1349.2 | 1354.8 |
| 47.5° | 1464.4 | 1442.4 | 1431.6 | 1420.4 | 1414.8 | 1408.8 | 1410.8 | 1411.2 | 1412.0 | 1417.2 | 1431.2 |
| 50° | 1632.0 | 1595.2 | 1566.8 | 1532.8 | 1520.0 | 1509.6 | 1503.6 | 1504.0 | 1504.0 | 1514.8 | 1528.8 |
| 52.5° | 1956.0 | 1887.6 | 1820.0 | 1760.8 | 1710.0 | 1685.6 | 1657.2 | 1650.0 | 1650.4 | 1659.6 | 1669.2 |
| 55° | 2515.6 | 2421.6 | 2350.0 | 2218.4 | 2178.4 | 2066.0 | 2006.8 | 1972.8 | 1946.4 | 1959.2 | 1973.2 |
| 57.5° | 3519.6 | 3432.8 | 3376.0 | 3218.8 | 3075.6 | 3034.8 | 2937.6 | 2858.8 | 2826.4 | 2788.8 | 2791.2 |
| 60° | 4751.2 | 4706.4 | 4692.0 | 4600.0 | 4548.4 | 4388.0 | 4375.2 | 4275.6 | 4181.6 | 4100.4 | 4133.6 |
| 62.5° | 5281.6 | 5302.4 | 5319.2 | 5351.6 | 5364.0 | 5348.8 | 5284.4 | 5240.4 | 5163.2 | 5056.8 | 4991.6 |
| 65° | 5147.6 | 5195.2 | 5266.8 | 5334.4 | 5415.2 | 5482.4 | 5515.6 | 5502.8 | 5433.2 | 5323.6 | 5186.8 |
| 67.5° | 4725.2 | 4773.6 | 4835.2 | 4920.8 | 5044.4 | 5175.2 | 5266.4 | 5324.4 | 5269.2 | 5170.4 | 5031.2 |
| 70° | 4060.0 | 4107.2 | 4109.2 | 4228.8 | 4362.0 | 4526.8 | 4688.4 | 4749.2 | 4686.4 | 4620.4 | 4504.0 |
| 72.5° | 3040.8 | 3012.4 | 3038.8 | 3060.8 | 3136.8 | 3240.8 | 3397.6 | 3390.8 | 3294.8 | 3243.6 | 3064.8 |
| 75° | 1429.2 | 1410.0 | 1382.0 | 1363.6 | 1346.0 | 1309.2 | 1326.8 | 1251.6 | 1225.6 | 1236.0 | 1081.6 |
| 77.5° | 514.0 | 487.6 | 445.2 | 404.0 | 352.0 | 291.6 | 246.0 | 216.0 | 201.2 | 201.6 | 192.4 |
| 80° | 431.2 | 444.0 | 438.0 | 397.2 | 338.8 | 275.6 | 206.4 | 156.4 | 133.6 | 124.0 | 118.0 |
| 82.5° | 467.6 | 532.0 | 564.0 | 538.8 | 455.2 | 350.4 | 225.6 | 136.4 | 100.0 | 85.6 | 82.0 |
| 85° | 259.2 | 259.6 | 251.6 | 240.4 | 213.2 | 146.4 | 97.6 | 64.8 | 52.0 | 46.4 | 44.8 |
| 87.5° | 44.0 | 42.0 | 42.0 | 39.2 | 34.4 | 33.6 | 30.0 | 28.4 | 25.2 | 23.2 | 22.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P162097

CATALOG NUMBER: OVF-E02-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

| | 87° | 88° | 89° | 90° | 91° | 92° | 93° | 94° | 95° | 96° | 97° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 |
| 2.5° | 559.6 | 558.8 | 558.4 | 558.0 | 558.0 | 557.6 | 557.6 | 556.8 | 556.0 | 555.6 | 555.2 |
| 5° | 572.4 | 571.6 | 570.8 | 570.0 | 570.0 | 569.2 | 568.4 | 567.6 | 566.4 | 564.4 | 564.0 |
| 7.5° | 594.0 | 592.4 | 592.4 | 589.6 | 589.6 | 588.0 | 586.8 | 586.8 | 585.2 | 582.0 | 581.6 |
| 10° | 620.8 | 618.0 | 616.8 | 615.2 | 614.4 | 612.8 | 612.8 | 611.2 | 610.4 | 609.2 | 605.2 |
| 12.5° | 649.6 | 647.6 | 646.8 | 644.8 | 643.6 | 643.6 | 642.8 | 640.0 | 642.0 | 639.2 | 637.2 |
| 15° | 684.4 | 684.0 | 680.4 | 681.6 | 681.2 | 680.8 | 681.2 | 678.8 | 678.4 | 678.4 | 676.0 |
| 17.5° | 728.0 | 724.8 | 725.2 | 725.2 | 726.0 | 726.0 | 722.8 | 724.4 | 724.8 | 724.0 | 723.2 |
| 20° | 779.2 | 778.0 | 779.2 | 776.8 | 779.2 | 779.2 | 780.8 | 780.4 | 780.8 | 781.6 | 781.6 |
| 22.5° | 834.0 | 837.2 | 837.6 | 838.4 | 835.6 | 840.4 | 840.4 | 841.2 | 843.2 | 843.2 | 844.0 |
| 25° | 900.4 | 898.8 | 896.8 | 899.6 | 900.4 | 903.6 | 904.4 | 904.4 | 907.6 | 907.6 | 908.8 |
| 27.5° | 955.6 | 957.2 | 956.8 | 958.4 | 957.6 | 962.0 | 963.6 | 968.4 | 967.2 | 969.6 | 972.8 |
| 30° | 1012.4 | 1015.6 | 1014.0 | 1014.4 | 1016.4 | 1019.2 | 1022.4 | 1027.2 | 1028.0 | 1034.4 | 1036.0 |
| 32.5° | 1078.0 | 1080.4 | 1082.4 | 1083.2 | 1083.2 | 1088.0 | 1093.2 | 1094.8 | 1103.2 | 1108.0 | 1113.6 |
| 35° | 1161.2 | 1161.6 | 1162.8 | 1164.0 | 1163.2 | 1168.4 | 1173.6 | 1175.2 | 1184.0 | 1185.2 | 1196.8 |
| 37.5° | 1196.4 | 1197.2 | 1202.0 | 1204.4 | 1206.0 | 1212.4 | 1222.0 | 1229.2 | 1238.8 | 1248.0 | 1261.2 |
| 40° | 1240.4 | 1245.2 | 1249.6 | 1253.2 | 1259.2 | 1268.0 | 1282.8 | 1290.0 | 1304.4 | 1321.6 | 1334.4 |
| 42.5° | 1296.0 | 1304.8 | 1308.0 | 1314.8 | 1329.6 | 1340.4 | 1355.2 | 1370.8 | 1390.0 | 1410.8 | 1426.0 |
| 45° | 1362.0 | 1370.4 | 1382.4 | 1390.0 | 1407.2 | 1424.4 | 1448.0 | 1461.6 | 1481.2 | 1505.2 | 1522.0 |
| 47.5° | 1442.0 | 1453.6 | 1465.6 | 1481.2 | 1501.6 | 1519.6 | 1543.2 | 1560.8 | 1580.4 | 1600.0 | 1618.4 |
| 50° | 1541.6 | 1558.8 | 1574.8 | 1591.2 | 1618.4 | 1633.6 | 1656.8 | 1675.2 | 1693.6 | 1713.2 | 1730.0 |
| 52.5° | 1675.6 | 1701.6 | 1722.0 | 1733.2 | 1770.0 | 1785.2 | 1813.6 | 1826.4 | 1841.6 | 1859.2 | 1880.8 |
| 55° | 1968.0 | 2008.4 | 2042.8 | 2062.8 | 2118.8 | 2138.8 | 2175.6 | 2194.4 | 2184.0 | 2206.4 | 2245.2 |
| 57.5° | 2813.6 | 2863.2 | 2904.4 | 2931.6 | 2988.8 | 3016.8 | 3018.8 | 3089.2 | 3047.6 | 3088.8 | 3094.8 |
| 60° | 4045.2 | 4084.4 | 4074.4 | 4074.8 | 4056.8 | 4030.8 | 4080.8 | 4004.8 | 4036.8 | 4038.8 | 3967.2 |
| 62.5° | 4871.2 | 4811.2 | 4783.2 | 4736.8 | 4682.8 | 4641.2 | 4612.8 | 4551.6 | 4502.8 | 4464.0 | 4388.4 |
| 65° | 5065.6 | 4961.6 | 4869.6 | 4782.8 | 4703.2 | 4648.0 | 4588.0 | 4522.4 | 4446.0 | 4381.6 | 4308.0 |
| 67.5° | 4877.6 | 4732.0 | 4595.6 | 4481.2 | 4372.4 | 4299.6 | 4212.8 | 4150.4 | 4054.4 | 3969.6 | 3913.6 |
| 70° | 4332.4 | 4130.8 | 3971.6 | 3898.4 | 3790.4 | 3634.0 | 3551.2 | 3473.2 | 3414.4 | 3337.6 | 3303.6 |
| 72.5° | 3039.2 | 2790.4 | 2667.6 | 2672.4 | 2562.8 | 2450.8 | 2453.6 | 2406.0 | 2330.0 | 2327.6 | 2316.0 |
| 75° | 1116.8 | 1016.0 | 945.2 | 948.4 | 907.6 | 864.0 | 876.0 | 888.8 | 864.0 | 914.4 | 836.4 |
| 77.5° | 177.6 | 172.8 | 171.2 | 167.6 | 158.8 | 165.2 | 160.8 | 169.2 | 170.4 | 179.6 | 180.4 |
| 80° | 113.2 | 108.4 | 107.2 | 105.2 | 104.8 | 104.8 | 104.0 | 104.0 | 104.0 | 104.4 | 103.6 |
| 82.5° | 75.6 | 72.8 | 72.4 | 71.2 | 73.2 | 73.6 | 74.0 | 77.2 | 80.0 | 80.8 | 84.0 |
| 85° | 41.2 | 39.2 | 39.2 | 38.4 | 40.0 | 40.4 | 44.0 | 48.4 | 54.0 | 56.4 | 61.6 |
| 87.5° | 20.8 | 22.0 | 21.6 | 22.4 | 23.6 | 26.4 | 29.2 | 32.0 | 35.2 | 39.6 | 43.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P162097

CATALOG NUMBER: OVF-E02-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

| | 98° | 99° | 100° | 101° | 102° | 103° | 104° | 105° | 115° | 125° | 135° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 |
| 2.5° | 554.4 | 554.0 | 554.0 | 553.2 | 553.2 | 552.8 | 552.0 | 551.2 | 547.6 | 543.2 | 540.4 |
| 5° | 562.8 | 562.0 | 561.6 | 560.8 | 559.6 | 559.6 | 558.4 | 556.8 | 550.0 | 542.8 | 538.4 |
| 7.5° | 580.0 | 579.6 | 578.4 | 576.8 | 575.2 | 573.6 | 572.8 | 572.0 | 561.6 | 554.8 | 551.6 |
| 10° | 604.8 | 604.4 | 601.6 | 601.2 | 598.8 | 599.2 | 597.2 | 595.6 | 588.8 | 581.2 | 576.8 |
| 12.5° | 636.4 | 638.0 | 636.4 | 632.8 | 633.6 | 632.4 | 630.4 | 628.4 | 622.4 | 616.4 | 609.6 |
| 15° | 675.6 | 673.6 | 672.0 | 675.2 | 672.4 | 672.0 | 673.2 | 673.6 | 666.4 | 660.0 | 650.4 |
| 17.5° | 724.4 | 724.4 | 723.6 | 724.4 | 722.8 | 724.0 | 723.2 | 724.0 | 720.8 | 712.0 | 698.0 |
| 20° | 780.0 | 783.2 | 783.2 | 782.0 | 781.6 | 784.0 | 785.2 | 780.8 | 781.6 | 774.0 | 748.8 |
| 22.5° | 844.8 | 847.2 | 848.0 | 846.8 | 847.2 | 850.4 | 852.4 | 849.2 | 856.4 | 844.0 | 805.2 |
| 25° | 911.6 | 915.2 | 913.6 | 914.0 | 917.2 | 920.8 | 924.4 | 921.2 | 935.2 | 916.0 | 865.2 |
| 27.5° | 977.6 | 980.8 | 980.0 | 982.4 | 987.6 | 992.4 | 996.4 | 995.2 | 1018.4 | 993.2 | 928.4 |
| 30° | 1040.0 | 1047.6 | 1049.2 | 1052.0 | 1058.4 | 1066.4 | 1072.8 | 1072.4 | 1102.4 | 1068.4 | 980.0 |
| 32.5° | 1116.8 | 1125.2 | 1128.4 | 1134.4 | 1146.8 | 1152.4 | 1160.4 | 1161.2 | 1191.2 | 1134.4 | 1023.6 |
| 35° | 1205.6 | 1214.0 | 1220.8 | 1225.2 | 1239.2 | 1246.0 | 1254.0 | 1257.6 | 1277.6 | 1196.0 | 1054.0 |
| 37.5° | 1274.4 | 1281.6 | 1294.8 | 1304.0 | 1316.4 | 1330.0 | 1339.2 | 1343.6 | 1354.8 | 1248.8 | 1068.0 |
| 40° | 1349.6 | 1365.2 | 1378.0 | 1392.0 | 1405.6 | 1416.4 | 1424.8 | 1431.6 | 1427.2 | 1292.8 | 1062.0 |
| 42.5° | 1444.8 | 1461.2 | 1478.4 | 1490.4 | 1497.6 | 1512.0 | 1516.0 | 1520.8 | 1484.8 | 1312.8 | 1034.8 |
| 45° | 1544.0 | 1557.2 | 1571.6 | 1580.4 | 1590.0 | 1597.2 | 1598.4 | 1598.8 | 1527.6 | 1301.2 | 985.6 |
| 47.5° | 1639.6 | 1650.8 | 1660.8 | 1665.6 | 1670.4 | 1670.8 | 1668.8 | 1665.6 | 1550.4 | 1262.0 | 926.4 |
| 50° | 1744.4 | 1751.2 | 1755.6 | 1756.0 | 1760.4 | 1752.0 | 1746.4 | 1731.6 | 1548.0 | 1202.0 | 864.0 |
| 52.5° | 1895.2 | 1893.6 | 1888.0 | 1887.6 | 1873.6 | 1857.6 | 1847.2 | 1826.0 | 1531.6 | 1137.2 | 792.0 |
| 55° | 2241.6 | 2226.4 | 2244.0 | 2199.2 | 2162.0 | 2137.2 | 2078.4 | 2035.6 | 1548.0 | 1076.8 | 709.2 |
| 57.5° | 3074.0 | 3022.0 | 3027.6 | 2955.2 | 2876.0 | 2727.6 | 2640.0 | 2521.6 | 1676.8 | 1043.2 | 604.8 |
| 60° | 3952.0 | 3866.4 | 3785.6 | 3657.2 | 3488.8 | 3300.4 | 3130.8 | 2945.6 | 1804.8 | 1002.0 | 493.6 |
| 62.5° | 4314.4 | 4204.0 | 4063.6 | 3882.4 | 3666.0 | 3432.4 | 3198.0 | 2986.8 | 1734.4 | 878.0 | 355.6 |
| 65° | 4197.6 | 4065.6 | 3916.0 | 3679.6 | 3434.0 | 3162.4 | 2905.6 | 2682.4 | 1444.4 | 642.0 | 214.8 |
| 67.5° | 3782.8 | 3669.2 | 3484.8 | 3261.6 | 2957.6 | 2685.2 | 2431.2 | 2224.8 | 1064.8 | 396.8 | 123.2 |
| 70° | 3185.2 | 3028.0 | 2870.4 | 2656.0 | 2335.6 | 2078.8 | 1842.4 | 1660.0 | 675.6 | 196.0 | 90.8 |
| 72.5° | 2198.4 | 2074.0 | 1948.0 | 1756.0 | 1516.8 | 1340.0 | 1136.8 | 986.8 | 353.6 | 105.6 | 83.6 |
| 75° | 856.4 | 842.8 | 828.4 | 741.2 | 660.0 | 528.8 | 464.4 | 418.8 | 147.2 | 91.6 | 82.4 |
| 77.5° | 188.0 | 199.2 | 205.6 | 194.8 | 185.6 | 165.6 | 158.4 | 141.6 | 98.4 | 94.0 | 81.6 |
| 80° | 103.6 | 103.6 | 103.6 | 104.8 | 102.8 | 102.8 | 101.6 | 99.6 | 92.0 | 94.0 | 80.0 |
| 82.5° | 84.8 | 86.0 | 87.6 | 88.0 | 87.6 | 88.0 | 87.2 | 86.8 | 90.0 | 94.4 | 76.0 |
| 85° | 64.8 | 68.8 | 71.2 | 74.4 | 77.6 | 79.6 | 80.4 | 80.8 | 82.8 | 89.6 | 66.4 |
| 87.5° | 46.0 | 49.2 | 54.4 | 55.2 | 58.8 | 63.2 | 64.8 | 67.2 | 66.0 | 68.0 | 31.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P162097

CATALOG NUMBER: OVF-E02-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

| | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|
| 0° | 555.6 | 555.6 | 555.6 | 555.6 | 555.6 |
| 2.5° | 538.0 | 534.8 | 533.6 | 533.2 | 532.4 |
| 5° | 534.8 | 532.8 | 531.2 | 530.0 | 530.8 |
| 7.5° | 549.2 | 548.0 | 545.2 | 544.4 | 545.6 |
| 10° | 574.8 | 572.0 | 568.0 | 568.4 | 568.0 |
| 12.5° | 606.8 | 599.2 | 592.8 | 590.0 | 588.0 |
| 15° | 639.6 | 624.8 | 611.6 | 605.6 | 603.2 |
| 17.5° | 676.0 | 650.8 | 630.4 | 619.6 | 617.6 |
| 20° | 714.4 | 679.6 | 653.2 | 640.4 | 638.4 |
| 22.5° | 758.8 | 710.8 | 677.2 | 659.6 | 656.8 |
| 25° | 802.0 | 738.8 | 694.0 | 672.4 | 668.8 |
| 27.5° | 841.2 | 760.0 | 704.0 | 678.4 | 674.8 |
| 30° | 874.0 | 776.8 | 712.4 | 683.2 | 679.2 |
| 32.5° | 895.6 | 786.0 | 715.2 | 683.6 | 678.8 |
| 35° | 902.4 | 780.0 | 703.2 | 666.8 | 662.8 |
| 37.5° | 888.0 | 755.6 | 671.2 | 630.0 | 626.8 |
| 40° | 855.2 | 710.4 | 620.8 | 578.0 | 574.0 |
| 42.5° | 804.0 | 653.2 | 562.4 | 517.2 | 513.6 |
| 45° | 747.2 | 592.0 | 500.4 | 455.2 | 451.6 |
| 47.5° | 685.2 | 527.2 | 435.2 | 393.6 | 388.0 |
| 50° | 617.2 | 456.8 | 368.8 | 328.0 | 322.8 |
| 52.5° | 537.6 | 380.0 | 298.4 | 261.6 | 258.4 |
| 55° | 444.4 | 302.8 | 237.6 | 210.8 | 207.6 |
| 57.5° | 345.6 | 230.4 | 188.8 | 175.6 | 170.4 |
| 60° | 250.8 | 175.2 | 150.4 | 144.0 | 141.2 |
| 62.5° | 170.4 | 130.8 | 121.2 | 119.2 | 117.2 |
| 65° | 115.6 | 102.4 | 99.6 | 100.0 | 98.8 |
| 67.5° | 91.2 | 86.0 | 84.4 | 85.2 | 84.8 |
| 70° | 80.0 | 76.0 | 75.6 | 76.4 | 76.0 |
| 72.5° | 75.6 | 70.4 | 71.2 | 72.4 | 72.0 |
| 75° | 73.6 | 68.0 | 69.6 | 70.4 | 68.4 |
| 77.5° | 71.6 | 64.4 | 69.2 | 70.8 | 66.8 |
| 80° | 68.8 | 61.2 | 72.4 | 71.6 | 64.0 |
| 82.5° | 62.8 | 54.0 | 70.8 | 64.8 | 57.6 |
| 85° | 51.2 | 40.4 | 79.6 | 57.2 | 42.0 |
| 87.5° | 32.8 | 24.4 | 55.2 | 43.6 | 28.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)