

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: P162125

Luminaire Tested: **OVF-E05-LED-E-U-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P162125
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-E05-LED-E-U-T2-8030
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12653.8 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

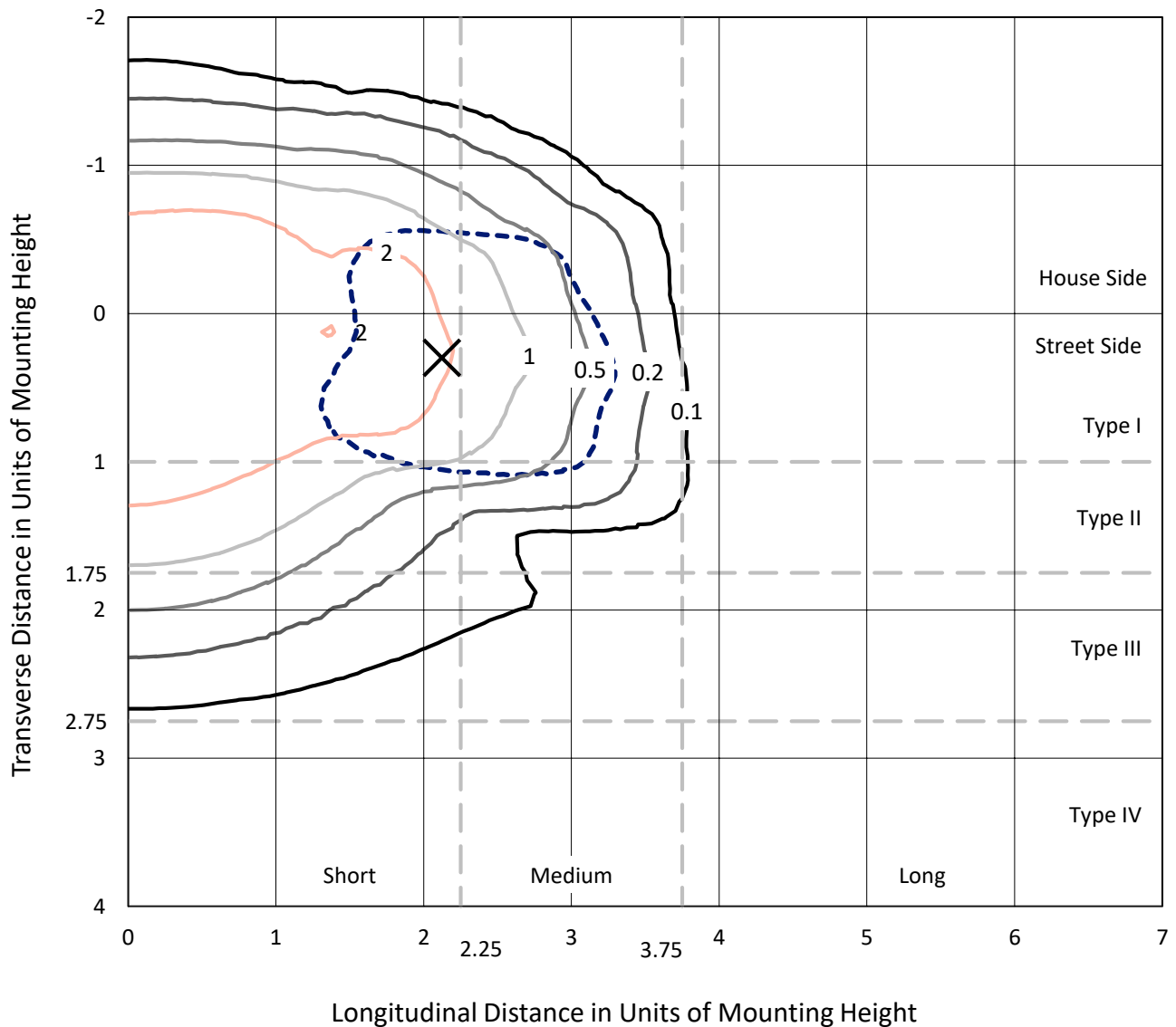
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

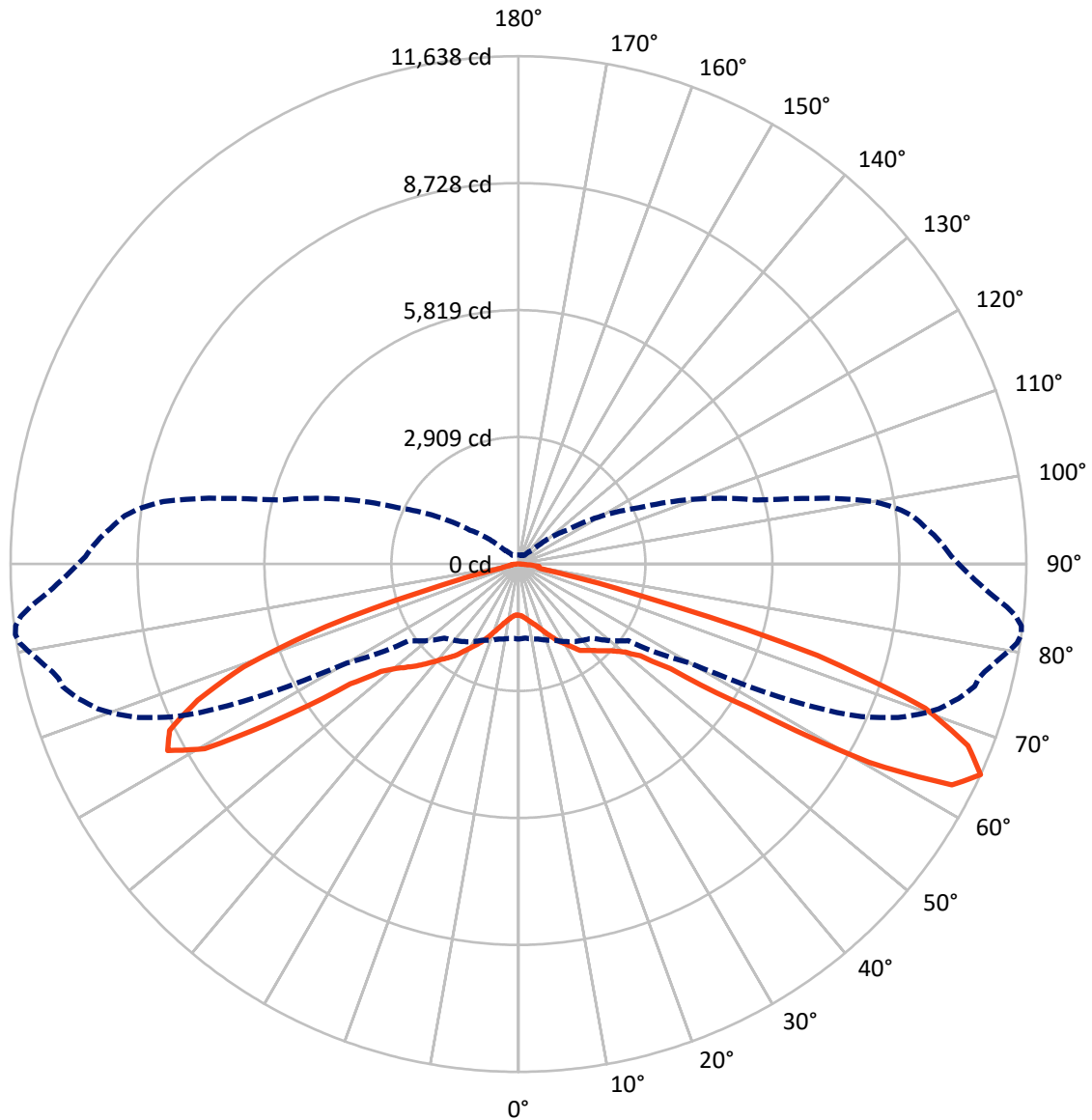
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 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 | 4658.0 | 0.0 | 4658.0 |
| | % Fixture | 36.8 | 0.0 | 36.8 |
| Street Side | Lumens | 7995.9 | 0.0 | 7995.9 |
| | % Fixture | 63.2 | 0.0 | 63.2 |
| Total | Lumens | 12653.8 | 0.0 | 12653.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 118.9 | 0.9 |
| 10°-20° | 419.0 | 3.3 |
| 20°-30° | 831.2 | 6.6 |
| 30°-40° | 1418.2 | 11.2 |
| 40°-50° | 2126.7 | 16.8 |
| 50°-60° | 2960.1 | 23.4 |
| 60°-70° | 3400.8 | 26.9 |
| 70°-80° | 1173.6 | 9.3 |
| 80°-90° | 205.2 | 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° | 12653.8 | 100.0 |
| 0°-180° | 12653.8 | 100.0 |

Coefficient of Utilization



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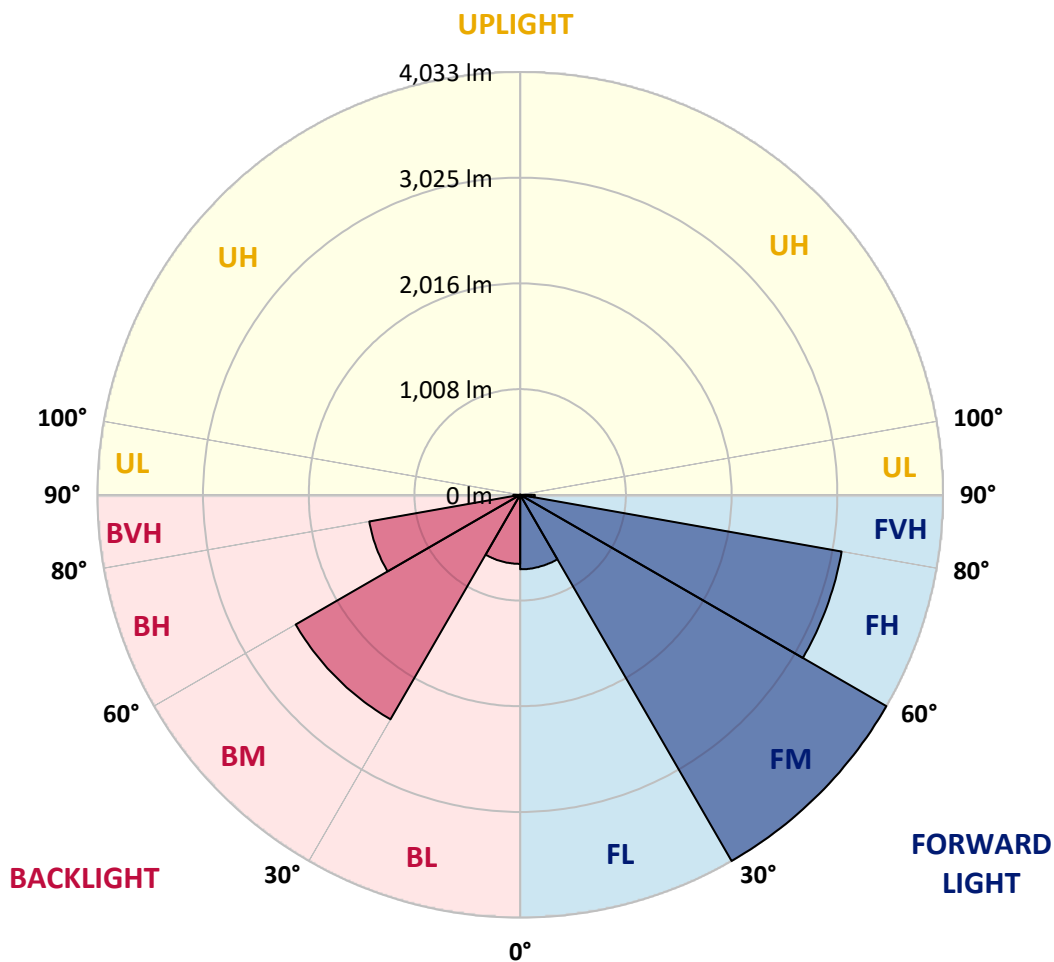
CATALOG NUMBER: OVF-E05-LED-E-U-T2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 710.3 | 5.6 | | | |
| FM | (30°-60°) | 4032.9 | 31.9 | | | |
| FH | (60°-80°) | 3113.3 | 24.6 | | | G2/5000 |
| FVH | (80°-90°) | 139.4 | 1.1 | | | G2/225 |
| BL | (0°-30°) | 658.9 | 5.2 | B2/1000 | | |
| BM | (30°-60°) | 2472.1 | 19.5 | B2/2500 | | |
| BH | (60°-80°) | 1461.1 | 11.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 65.9 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 |
| 2.5° | 1237.3 | 1236.4 | 1235.6 | 1232.2 | 1230.5 | 1223.8 | 1217.0 | 1212.8 | 1209.4 | 1211.1 | 1206.1 |
| 5° | 1309.0 | 1309.0 | 1305.7 | 1301.4 | 1296.4 | 1287.1 | 1270.2 | 1261.8 | 1260.1 | 1260.1 | 1254.2 |
| 7.5° | 1382.5 | 1387.5 | 1378.2 | 1374.9 | 1366.4 | 1352.1 | 1332.7 | 1321.7 | 1318.3 | 1318.3 | 1313.2 |
| 10° | 1475.3 | 1472.8 | 1462.6 | 1455.9 | 1439.0 | 1419.6 | 1393.4 | 1380.8 | 1375.7 | 1379.9 | 1371.5 |
| 12.5° | 1573.2 | 1572.4 | 1557.2 | 1544.5 | 1520.9 | 1489.6 | 1455.0 | 1438.2 | 1434.8 | 1434.8 | 1429.7 |
| 15° | 1672.8 | 1673.6 | 1656.8 | 1633.1 | 1596.0 | 1553.8 | 1515.0 | 1498.9 | 1494.7 | 1493.0 | 1487.1 |
| 17.5° | 1748.7 | 1757.2 | 1740.3 | 1709.9 | 1664.4 | 1617.9 | 1576.6 | 1560.5 | 1559.7 | 1558.0 | 1551.3 |
| 20° | 1791.8 | 1793.5 | 1784.2 | 1762.3 | 1721.7 | 1677.0 | 1648.3 | 1640.7 | 1639.9 | 1640.7 | 1642.4 |
| 22.5° | 1790.1 | 1792.6 | 1789.3 | 1780.8 | 1754.7 | 1730.2 | 1726.8 | 1731.0 | 1733.6 | 1731.0 | 1736.9 |
| 25° | 1776.6 | 1780.0 | 1780.0 | 1784.2 | 1777.4 | 1785.9 | 1812.9 | 1824.7 | 1825.6 | 1827.2 | 1839.9 |
| 27.5° | 1806.1 | 1809.5 | 1808.7 | 1816.3 | 1822.2 | 1851.7 | 1900.7 | 1921.8 | 1924.3 | 1930.2 | 1942.0 |
| 30° | 1942.9 | 1943.7 | 1928.5 | 1927.7 | 1933.6 | 1957.2 | 2007.0 | 2031.5 | 2029.0 | 2040.8 | 2048.4 |
| 32.5° | 2158.9 | 2165.7 | 2150.5 | 2134.5 | 2131.9 | 2135.3 | 2144.6 | 2161.5 | 2158.9 | 2164.8 | 2175.0 |
| 35° | 2405.4 | 2406.2 | 2397.8 | 2407.1 | 2412.1 | 2389.3 | 2345.5 | 2341.2 | 2327.7 | 2330.3 | 2333.6 |
| 37.5° | 2631.6 | 2637.5 | 2653.5 | 2712.6 | 2746.3 | 2690.6 | 2604.6 | 2550.5 | 2542.1 | 2537.9 | 2508.3 |
| 40° | 2843.4 | 2872.9 | 2911.8 | 2988.6 | 3035.0 | 3055.2 | 2932.9 | 2824.0 | 2794.5 | 2782.6 | 2736.2 |
| 42.5° | 3091.5 | 3106.7 | 3152.3 | 3240.1 | 3301.7 | 3393.7 | 3311.8 | 3192.0 | 3157.4 | 3106.7 | 3048.5 |
| 45° | 3301.7 | 3311.8 | 3340.5 | 3414.8 | 3543.9 | 3697.5 | 3706.8 | 3623.3 | 3596.2 | 3545.6 | 3460.4 |
| 47.5° | 3442.6 | 3441.8 | 3462.9 | 3535.5 | 3703.4 | 3938.1 | 4077.3 | 4073.9 | 4042.7 | 4025.0 | 3952.4 |
| 50° | 3497.5 | 3496.7 | 3510.2 | 3591.2 | 3774.3 | 4081.5 | 4388.8 | 4494.3 | 4493.4 | 4500.2 | 4463.0 |
| 52.5° | 3507.6 | 3506.8 | 3508.5 | 3573.5 | 3760.0 | 4131.3 | 4613.3 | 4862.2 | 4898.5 | 4944.1 | 4985.5 |
| 55° | 3431.7 | 3440.1 | 3458.7 | 3527.0 | 3706.0 | 4111.1 | 4779.5 | 5207.4 | 5294.4 | 5387.2 | 5537.4 |
| 57.5° | 3256.1 | 3272.2 | 3336.3 | 3458.7 | 3648.6 | 4061.3 | 4895.1 | 5634.5 | 5810.9 | 6035.4 | 6442.2 |
| 60° | 3004.6 | 3019.0 | 3107.6 | 3269.6 | 3481.5 | 3844.4 | 4761.0 | 5813.4 | 6148.5 | 6538.4 | 7372.3 |
| 62.5° | 2559.8 | 2600.3 | 2647.6 | 2762.4 | 2984.4 | 3276.4 | 4158.3 | 5511.3 | 6030.3 | 6602.5 | 7750.4 |
| 65° | 1719.2 | 1702.3 | 1780.8 | 1926.8 | 2170.7 | 2397.8 | 3063.7 | 4545.7 | 5202.4 | 5989.8 | 7410.2 |
| 67.5° | 1064.3 | 1066.8 | 1120.0 | 1262.6 | 1446.6 | 1623.0 | 1942.0 | 2897.4 | 3479.8 | 4228.4 | 5936.6 |
| 70° | 879.4 | 889.6 | 932.6 | 1065.1 | 1222.1 | 1421.3 | 1441.5 | 1536.1 | 1796.9 | 2158.9 | 3667.1 |
| 72.5° | 698.0 | 702.2 | 746.1 | 856.7 | 1078.6 | 1352.1 | 1711.6 | 1167.2 | 1147.0 | 1201.8 | 1860.2 |
| 75° | 433.0 | 436.3 | 458.3 | 529.2 | 699.7 | 1053.3 | 1884.6 | 1341.9 | 1257.5 | 1186.7 | 1198.5 |
| 77.5° | 223.7 | 230.4 | 242.2 | 274.3 | 367.1 | 588.3 | 1483.7 | 1701.5 | 1605.3 | 1509.1 | 1320.8 |
| 80° | 126.6 | 126.6 | 137.6 | 145.2 | 173.9 | 239.7 | 754.5 | 1841.6 | 2012.1 | 2053.4 | 1844.1 |
| 82.5° | 56.5 | 63.3 | 85.2 | 91.2 | 99.6 | 109.7 | 249.8 | 1106.5 | 1535.2 | 1917.5 | 2369.9 |
| 85° | 33.8 | 32.9 | 54.0 | 59.1 | 61.6 | 52.3 | 93.7 | 451.5 | 717.4 | 1049.9 | 1570.7 |
| 87.5° | 13.5 | 14.3 | 22.8 | 24.5 | 28.7 | 21.1 | 35.4 | 97.1 | 142.6 | 206.8 | 292.0 |
| 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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CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° | 75° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 |
| 2.5° | 1205.2 | 1205.2 | 1204.4 | 1203.5 | 1202.7 | 1200.2 | 1199.3 | 1197.6 | 1196.8 | 1194.2 | 1193.4 |
| 5° | 1253.3 | 1250.8 | 1250.0 | 1248.3 | 1247.4 | 1244.0 | 1244.0 | 1240.7 | 1238.1 | 1234.8 | 1233.9 |
| 7.5° | 1310.7 | 1307.3 | 1304.8 | 1303.1 | 1302.3 | 1296.4 | 1296.4 | 1291.3 | 1290.5 | 1286.2 | 1284.6 |
| 10° | 1369.0 | 1366.4 | 1363.0 | 1361.4 | 1360.5 | 1357.1 | 1353.8 | 1350.4 | 1347.9 | 1345.3 | 1341.9 |
| 12.5° | 1427.2 | 1422.1 | 1420.4 | 1417.9 | 1416.2 | 1413.7 | 1412.8 | 1405.2 | 1405.2 | 1402.7 | 1399.3 |
| 15° | 1483.7 | 1482.9 | 1477.0 | 1476.1 | 1474.5 | 1475.3 | 1470.2 | 1471.1 | 1468.5 | 1464.3 | 1462.6 |
| 17.5° | 1552.9 | 1547.0 | 1549.6 | 1545.3 | 1546.2 | 1544.5 | 1542.8 | 1542.0 | 1543.7 | 1542.8 | 1544.5 |
| 20° | 1639.0 | 1637.3 | 1639.9 | 1634.0 | 1639.9 | 1640.7 | 1639.0 | 1643.3 | 1641.6 | 1643.3 | 1638.2 |
| 22.5° | 1741.2 | 1735.2 | 1735.2 | 1739.5 | 1742.0 | 1749.6 | 1745.4 | 1748.7 | 1752.1 | 1754.7 | 1751.3 |
| 25° | 1844.1 | 1842.4 | 1845.8 | 1849.2 | 1854.2 | 1861.0 | 1859.3 | 1860.2 | 1866.9 | 1871.1 | 1872.0 |
| 27.5° | 1948.8 | 1948.8 | 1958.9 | 1958.9 | 1965.7 | 1973.3 | 1975.8 | 1979.2 | 1984.2 | 1990.1 | 1990.1 |
| 30° | 2056.8 | 2056.8 | 2066.1 | 2074.5 | 2077.9 | 2087.2 | 2092.3 | 2097.3 | 2106.6 | 2108.3 | 2115.9 |
| 32.5° | 2180.0 | 2182.6 | 2191.8 | 2196.9 | 2204.5 | 2215.5 | 2217.2 | 2223.1 | 2234.0 | 2237.4 | 2243.3 |
| 35° | 2340.4 | 2331.9 | 2340.4 | 2349.7 | 2353.9 | 2350.5 | 2369.1 | 2376.7 | 2384.3 | 2388.5 | 2396.1 |
| 37.5° | 2505.8 | 2491.5 | 2492.3 | 2490.6 | 2480.5 | 2486.4 | 2486.4 | 2484.7 | 2489.8 | 2488.9 | 2492.3 |
| 40° | 2715.1 | 2689.8 | 2682.2 | 2666.2 | 2644.2 | 2632.4 | 2619.7 | 2618.1 | 2605.4 | 2610.5 | 2601.2 |
| 42.5° | 3002.1 | 2964.1 | 2943.8 | 2894.0 | 2867.0 | 2835.0 | 2803.7 | 2776.7 | 2762.4 | 2746.3 | 2734.5 |
| 45° | 3396.2 | 3351.5 | 3302.5 | 3222.4 | 3175.9 | 3111.8 | 3070.4 | 3008.8 | 2967.5 | 2932.9 | 2908.4 |
| 47.5° | 3890.8 | 3815.7 | 3776.0 | 3700.9 | 3619.9 | 3522.8 | 3434.2 | 3348.1 | 3278.1 | 3202.1 | 3142.2 |
| 50° | 4465.6 | 4371.9 | 4340.6 | 4241.1 | 4195.5 | 4086.6 | 3992.1 | 3885.7 | 3776.0 | 3661.2 | 3551.5 |
| 52.5° | 4974.5 | 4963.5 | 4976.2 | 4909.5 | 4907.8 | 4852.9 | 4748.3 | 4624.2 | 4522.1 | 4406.5 | 4262.2 |
| 55° | 5584.7 | 5693.6 | 5717.2 | 5707.9 | 5757.7 | 5756.0 | 5745.9 | 5733.2 | 5652.2 | 5488.5 | 5438.7 |
| 57.5° | 6661.6 | 6784.0 | 6964.6 | 7046.5 | 7227.1 | 7248.2 | 7415.3 | 7350.3 | 7474.4 | 7440.6 | 7463.4 |
| 60° | 7758.0 | 8133.5 | 8476.2 | 8737.0 | 8990.2 | 9220.6 | 9502.5 | 9623.2 | 9713.5 | 9854.4 | 10003.0 |
| 62.5° | 8248.3 | 8721.8 | 9130.3 | 9501.6 | 9816.5 | 10108.5 | 10350.7 | 10580.3 | 10760.9 | 10922.9 | 11047.8 |
| 65° | 8050.0 | 8599.4 | 8997.8 | 9385.2 | 9678.9 | 9950.7 | 10191.2 | 10363.4 | 10543.1 | 10690.0 | 10822.5 |
| 67.5° | 6702.1 | 7433.9 | 7953.8 | 8393.5 | 8762.3 | 9072.1 | 9321.9 | 9559.0 | 9686.5 | 9846.8 | 9918.6 |
| 70° | 4439.4 | 5377.9 | 6113.0 | 6707.2 | 7292.1 | 7643.2 | 7939.4 | 8215.4 | 8360.6 | 8490.5 | 8570.7 |
| 72.5° | 2438.3 | 3079.7 | 3864.6 | 4571.1 | 5133.2 | 5594.0 | 5939.2 | 6200.8 | 6350.2 | 6461.6 | 6346.0 |
| 75° | 1381.6 | 1698.1 | 2082.1 | 2472.9 | 2899.1 | 3224.0 | 3315.2 | 3426.6 | 3452.8 | 3395.4 | 3246.8 |
| 77.5° | 1270.2 | 1270.2 | 1271.1 | 1261.8 | 1280.3 | 1303.1 | 1289.6 | 1266.8 | 1163.9 | 1141.1 | 1109.0 |
| 80° | 1651.7 | 1471.9 | 1279.5 | 1050.8 | 856.7 | 722.5 | 681.1 | 684.5 | 717.4 | 781.5 | 852.4 |
| 82.5° | 2341.2 | 2164.0 | 1886.3 | 1537.8 | 1223.8 | 960.5 | 787.4 | 708.1 | 707.3 | 771.4 | 863.4 |
| 85° | 1707.4 | 1721.7 | 1660.1 | 1468.5 | 1171.5 | 922.5 | 745.2 | 572.2 | 516.5 | 516.5 | 509.8 |
| 87.5° | 298.8 | 308.1 | 265.9 | 238.0 | 166.3 | 117.3 | 105.5 | 92.8 | 92.0 | 95.4 | 87.8 |
| 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):

| | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° | 86° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 |
| 2.5° | 1193.4 | 1191.7 | 1190.0 | 1189.2 | 1189.2 | 1187.5 | 1187.5 | 1185.8 | 1186.7 | 1185.8 | 1183.3 |
| 5° | 1232.2 | 1231.4 | 1228.9 | 1224.6 | 1223.8 | 1220.4 | 1221.3 | 1217.9 | 1217.9 | 1216.2 | 1212.0 |
| 7.5° | 1281.2 | 1279.5 | 1277.8 | 1274.4 | 1271.1 | 1271.1 | 1265.1 | 1265.1 | 1260.9 | 1259.2 | 1255.9 |
| 10° | 1339.4 | 1334.3 | 1331.8 | 1328.4 | 1327.6 | 1326.8 | 1320.8 | 1320.8 | 1315.8 | 1314.9 | 1312.4 |
| 12.5° | 1396.8 | 1393.4 | 1390.9 | 1389.2 | 1385.0 | 1384.1 | 1381.6 | 1379.1 | 1376.5 | 1374.9 | 1374.0 |
| 15° | 1459.3 | 1457.6 | 1455.0 | 1455.0 | 1455.0 | 1450.8 | 1448.3 | 1446.6 | 1446.6 | 1444.1 | 1445.8 |
| 17.5° | 1540.3 | 1542.8 | 1539.4 | 1537.8 | 1535.2 | 1539.4 | 1535.2 | 1535.2 | 1537.8 | 1537.8 | 1531.8 |
| 20° | 1640.7 | 1644.1 | 1640.7 | 1641.6 | 1639.9 | 1640.7 | 1641.6 | 1643.3 | 1646.6 | 1640.7 | 1641.6 |
| 22.5° | 1752.1 | 1753.0 | 1755.5 | 1753.0 | 1757.2 | 1754.7 | 1759.7 | 1763.9 | 1763.1 | 1761.4 | 1762.3 |
| 25° | 1873.7 | 1871.1 | 1872.0 | 1879.6 | 1885.5 | 1883.8 | 1884.6 | 1891.4 | 1889.7 | 1888.0 | 1888.9 |
| 27.5° | 1996.9 | 1995.2 | 1997.7 | 2004.5 | 2011.2 | 2010.4 | 2008.7 | 2013.8 | 2013.8 | 2009.5 | 2011.2 |
| 30° | 2119.3 | 2121.8 | 2126.0 | 2126.0 | 2129.4 | 2132.8 | 2130.2 | 2136.1 | 2137.0 | 2133.6 | 2137.8 |
| 32.5° | 2248.4 | 2253.5 | 2251.8 | 2263.6 | 2263.6 | 2264.4 | 2267.0 | 2266.1 | 2274.6 | 2267.8 | 2270.3 |
| 35° | 2403.7 | 2405.4 | 2415.5 | 2423.9 | 2429.0 | 2433.2 | 2433.2 | 2435.8 | 2440.0 | 2436.6 | 2441.7 |
| 37.5° | 2498.2 | 2501.6 | 2505.0 | 2510.0 | 2510.0 | 2510.0 | 2514.2 | 2515.1 | 2517.6 | 2516.8 | 2518.5 |
| 40° | 2602.0 | 2602.9 | 2603.7 | 2604.6 | 2607.9 | 2609.6 | 2605.4 | 2611.3 | 2607.1 | 2608.8 | 2611.3 |
| 42.5° | 2727.8 | 2716.0 | 2717.7 | 2715.1 | 2721.0 | 2713.4 | 2715.1 | 2721.9 | 2718.5 | 2723.6 | 2723.6 |
| 45° | 2873.8 | 2860.3 | 2848.5 | 2841.7 | 2841.7 | 2831.6 | 2833.3 | 2835.8 | 2840.0 | 2846.8 | 2858.6 |
| 47.5° | 3089.9 | 3043.4 | 3020.6 | 2997.0 | 2985.2 | 2972.5 | 2976.8 | 2977.6 | 2979.3 | 2990.3 | 3019.8 |
| 50° | 3443.5 | 3365.8 | 3305.9 | 3234.2 | 3207.2 | 3185.2 | 3172.6 | 3173.4 | 3173.4 | 3196.2 | 3225.7 |
| 52.5° | 4127.1 | 3982.8 | 3840.2 | 3715.2 | 3608.1 | 3556.6 | 3496.7 | 3481.5 | 3482.3 | 3501.7 | 3522.0 |
| 55° | 5307.9 | 5109.5 | 4958.4 | 4680.8 | 4596.4 | 4359.2 | 4234.3 | 4162.6 | 4106.9 | 4133.9 | 4163.4 |
| 57.5° | 7426.3 | 7243.1 | 7123.3 | 6791.6 | 6489.4 | 6403.4 | 6198.3 | 6032.0 | 5963.6 | 5884.3 | 5889.4 |
| 60° | 10024.9 | 9930.4 | 9900.0 | 9705.9 | 9597.0 | 9258.6 | 9231.6 | 9021.4 | 8823.1 | 8651.8 | 8721.8 |
| 62.5° | 11144.1 | 11187.9 | 11223.4 | 11291.8 | 11317.9 | 11285.8 | 11150.0 | 11057.1 | 10894.2 | 10669.7 | 10532.2 |
| 65° | 10861.3 | 10961.8 | 11112.8 | 11255.5 | 11425.9 | 11567.7 | 11637.8 | 11610.8 | 11463.9 | 11232.7 | 10944.0 |
| 67.5° | 9970.1 | 10072.2 | 10202.2 | 10382.8 | 10643.6 | 10919.6 | 11112.0 | 11234.4 | 11117.9 | 10909.4 | 10615.7 |
| 70° | 8566.5 | 8666.1 | 8670.3 | 8922.7 | 9203.7 | 9551.4 | 9892.4 | 10020.7 | 9888.2 | 9748.9 | 9503.3 |
| 72.5° | 6416.0 | 6356.1 | 6411.8 | 6458.2 | 6618.6 | 6838.0 | 7168.9 | 7154.5 | 6952.0 | 6843.9 | 6466.7 |
| 75° | 3015.6 | 2975.1 | 2916.0 | 2877.2 | 2840.0 | 2762.4 | 2799.5 | 2640.8 | 2586.0 | 2607.9 | 2282.2 |
| 77.5° | 1084.5 | 1028.8 | 939.4 | 852.4 | 742.7 | 615.3 | 519.1 | 455.8 | 424.5 | 425.4 | 406.0 |
| 80° | 909.8 | 936.8 | 924.2 | 838.1 | 714.9 | 581.5 | 435.5 | 330.0 | 281.9 | 261.6 | 249.0 |
| 82.5° | 986.6 | 1122.5 | 1190.0 | 1136.9 | 960.5 | 739.3 | 476.0 | 287.8 | 211.0 | 180.6 | 173.0 |
| 85° | 546.9 | 547.8 | 530.9 | 507.2 | 449.8 | 308.9 | 205.9 | 136.7 | 109.7 | 97.9 | 94.5 |
| 87.5° | 92.8 | 88.6 | 88.6 | 82.7 | 72.6 | 70.9 | 63.3 | 59.9 | 53.2 | 49.0 | 47.3 |
| 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: P162125

CATALOG NUMBER: OVF-E05-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

| | 87° | 88° | 89° | 90° | 91° | 92° | 93° | 94° | 95° | 96° | 97° |
|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 |
| 2.5° | 1180.7 | 1179.1 | 1178.2 | 1177.4 | 1177.4 | 1176.5 | 1176.5 | 1174.8 | 1173.1 | 1172.3 | 1171.5 |
| 5° | 1207.8 | 1206.1 | 1204.4 | 1202.7 | 1202.7 | 1201.0 | 1199.3 | 1197.6 | 1195.1 | 1190.9 | 1190.0 |
| 7.5° | 1253.3 | 1250.0 | 1250.0 | 1244.0 | 1244.0 | 1240.7 | 1238.1 | 1238.1 | 1234.8 | 1228.0 | 1227.2 |
| 10° | 1309.9 | 1304.0 | 1301.4 | 1298.1 | 1296.4 | 1293.0 | 1293.0 | 1289.6 | 1287.9 | 1285.4 | 1277.0 |
| 12.5° | 1370.6 | 1366.4 | 1364.7 | 1360.5 | 1358.0 | 1358.0 | 1356.3 | 1350.4 | 1354.6 | 1348.7 | 1344.5 |
| 15° | 1444.1 | 1443.2 | 1435.6 | 1438.2 | 1437.3 | 1436.5 | 1437.3 | 1432.3 | 1431.4 | 1431.4 | 1426.3 |
| 17.5° | 1536.1 | 1529.3 | 1530.2 | 1530.2 | 1531.8 | 1531.8 | 1525.1 | 1528.5 | 1529.3 | 1527.6 | 1525.9 |
| 20° | 1644.1 | 1641.6 | 1644.1 | 1639.0 | 1644.1 | 1644.1 | 1647.5 | 1646.6 | 1647.5 | 1649.2 | 1649.2 |
| 22.5° | 1759.7 | 1766.5 | 1767.3 | 1769.0 | 1763.1 | 1773.2 | 1773.2 | 1774.9 | 1779.1 | 1779.1 | 1780.8 |
| 25° | 1899.8 | 1896.4 | 1892.2 | 1898.1 | 1899.8 | 1906.6 | 1908.3 | 1908.3 | 1915.0 | 1915.0 | 1917.5 |
| 27.5° | 2016.3 | 2019.7 | 2018.8 | 2022.2 | 2020.5 | 2029.8 | 2033.2 | 2043.3 | 2040.8 | 2045.8 | 2052.6 |
| 30° | 2136.1 | 2142.9 | 2139.5 | 2140.4 | 2144.6 | 2150.5 | 2157.2 | 2167.4 | 2169.1 | 2182.6 | 2185.9 |
| 32.5° | 2274.6 | 2279.6 | 2283.8 | 2285.5 | 2285.5 | 2295.7 | 2306.6 | 2310.0 | 2327.7 | 2337.9 | 2349.7 |
| 35° | 2450.1 | 2450.9 | 2453.5 | 2456.0 | 2454.3 | 2465.3 | 2476.3 | 2479.6 | 2498.2 | 2500.7 | 2525.2 |
| 37.5° | 2524.4 | 2526.1 | 2536.2 | 2541.3 | 2544.6 | 2558.1 | 2578.4 | 2593.6 | 2613.8 | 2633.3 | 2661.1 |
| 40° | 2617.2 | 2627.3 | 2636.6 | 2644.2 | 2656.9 | 2675.5 | 2706.7 | 2721.9 | 2752.3 | 2788.5 | 2815.6 |
| 42.5° | 2734.5 | 2753.1 | 2759.9 | 2774.2 | 2805.4 | 2828.2 | 2859.4 | 2892.4 | 2932.9 | 2976.8 | 3008.8 |
| 45° | 2873.8 | 2891.5 | 2916.8 | 2932.9 | 2969.2 | 3005.5 | 3055.2 | 3083.9 | 3125.3 | 3175.9 | 3211.4 |
| 47.5° | 3042.6 | 3067.1 | 3092.4 | 3125.3 | 3168.3 | 3206.3 | 3256.1 | 3293.3 | 3334.6 | 3376.0 | 3414.8 |
| 50° | 3252.7 | 3289.0 | 3322.8 | 3357.4 | 3414.8 | 3446.9 | 3495.8 | 3534.6 | 3573.5 | 3614.8 | 3650.3 |
| 52.5° | 3535.5 | 3590.3 | 3633.4 | 3657.0 | 3734.7 | 3766.7 | 3826.7 | 3853.7 | 3885.7 | 3922.9 | 3968.4 |
| 55° | 4152.4 | 4237.7 | 4310.3 | 4352.5 | 4470.6 | 4512.8 | 4590.5 | 4630.1 | 4608.2 | 4655.5 | 4737.3 |
| 57.5° | 5936.6 | 6041.3 | 6128.2 | 6185.6 | 6306.3 | 6365.4 | 6369.6 | 6518.1 | 6430.4 | 6517.3 | 6530.0 |
| 60° | 8535.3 | 8618.0 | 8596.9 | 8597.7 | 8559.8 | 8504.9 | 8610.4 | 8450.0 | 8517.6 | 8521.8 | 8370.7 |
| 62.5° | 10278.1 | 10151.5 | 10092.4 | 9994.5 | 9880.6 | 9792.8 | 9732.9 | 9603.8 | 9500.8 | 9418.9 | 9259.4 |
| 65° | 10688.3 | 10468.9 | 10274.7 | 10091.6 | 9923.6 | 9807.2 | 9680.6 | 9542.2 | 9381.0 | 9245.1 | 9089.8 |
| 67.5° | 10291.6 | 9984.4 | 9696.6 | 9455.2 | 9225.7 | 9072.1 | 8888.9 | 8757.2 | 8554.7 | 8375.8 | 8257.6 |
| 70° | 9141.3 | 8715.9 | 8380.0 | 8225.5 | 7997.7 | 7667.7 | 7493.0 | 7328.4 | 7204.3 | 7042.3 | 6970.5 |
| 72.5° | 6412.6 | 5887.7 | 5628.6 | 5638.7 | 5407.4 | 5171.1 | 5177.0 | 5076.6 | 4916.2 | 4911.2 | 4886.7 |
| 75° | 2356.4 | 2143.7 | 1994.4 | 2001.1 | 1915.0 | 1823.0 | 1848.3 | 1875.3 | 1823.0 | 1929.4 | 1764.8 |
| 77.5° | 374.7 | 364.6 | 361.2 | 353.6 | 335.1 | 348.6 | 339.3 | 357.0 | 359.5 | 379.0 | 380.6 |
| 80° | 238.8 | 228.7 | 226.2 | 222.0 | 221.1 | 221.1 | 219.4 | 219.4 | 219.4 | 220.3 | 218.6 |
| 82.5° | 159.5 | 153.6 | 152.8 | 150.2 | 154.5 | 155.3 | 156.1 | 162.9 | 168.8 | 170.5 | 177.2 |
| 85° | 86.9 | 82.7 | 82.7 | 81.0 | 84.4 | 85.2 | 92.8 | 102.1 | 113.9 | 119.0 | 130.0 |
| 87.5° | 43.9 | 46.4 | 45.6 | 47.3 | 49.8 | 55.7 | 61.6 | 67.5 | 74.3 | 83.6 | 91.2 |
| 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: P162125

CATALOG NUMBER: OVF-E05-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

| | 98° | 99° | 100° | 101° | 102° | 103° | 104° | 105° | 115° | 125° | 135° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 |
| 2.5° | 1169.8 | 1168.9 | 1168.9 | 1167.2 | 1167.2 | 1166.4 | 1164.7 | 1163.0 | 1155.4 | 1146.1 | 1140.2 |
| 5° | 1187.5 | 1185.8 | 1185.0 | 1183.3 | 1180.7 | 1180.7 | 1178.2 | 1174.8 | 1160.5 | 1145.3 | 1136.0 |
| 7.5° | 1223.8 | 1222.9 | 1220.4 | 1217.0 | 1213.7 | 1210.3 | 1208.6 | 1206.9 | 1185.0 | 1170.6 | 1163.9 |
| 10° | 1276.1 | 1275.3 | 1269.4 | 1268.5 | 1263.5 | 1264.3 | 1260.1 | 1256.7 | 1242.4 | 1226.3 | 1217.0 |
| 12.5° | 1342.8 | 1346.2 | 1342.8 | 1335.2 | 1336.9 | 1334.3 | 1330.1 | 1325.9 | 1313.2 | 1300.6 | 1286.2 |
| 15° | 1425.5 | 1421.3 | 1417.9 | 1424.7 | 1418.7 | 1417.9 | 1420.4 | 1421.3 | 1406.1 | 1392.6 | 1372.3 |
| 17.5° | 1528.5 | 1528.5 | 1526.8 | 1528.5 | 1525.1 | 1527.6 | 1525.9 | 1527.6 | 1520.9 | 1502.3 | 1472.8 |
| 20° | 1645.8 | 1652.5 | 1652.5 | 1650.0 | 1649.2 | 1654.2 | 1656.8 | 1647.5 | 1649.2 | 1633.1 | 1580.0 |
| 22.5° | 1782.5 | 1787.6 | 1789.3 | 1786.7 | 1787.6 | 1794.3 | 1798.5 | 1791.8 | 1807.0 | 1780.8 | 1699.0 |
| 25° | 1923.5 | 1931.1 | 1927.7 | 1928.5 | 1935.3 | 1942.9 | 1950.5 | 1943.7 | 1973.3 | 1932.7 | 1825.6 |
| 27.5° | 2062.7 | 2069.5 | 2067.8 | 2072.8 | 2083.8 | 2093.9 | 2102.4 | 2099.8 | 2148.8 | 2095.6 | 1958.9 |
| 30° | 2194.4 | 2210.4 | 2213.8 | 2219.7 | 2233.2 | 2250.1 | 2263.6 | 2262.7 | 2326.0 | 2254.3 | 2067.8 |
| 32.5° | 2356.4 | 2374.1 | 2380.9 | 2393.6 | 2419.7 | 2431.5 | 2448.4 | 2450.1 | 2513.4 | 2393.6 | 2159.8 |
| 35° | 2543.8 | 2561.5 | 2575.9 | 2585.1 | 2614.7 | 2629.0 | 2645.9 | 2653.5 | 2695.7 | 2523.5 | 2223.9 |
| 37.5° | 2689.0 | 2704.1 | 2732.0 | 2751.4 | 2777.6 | 2806.3 | 2825.7 | 2835.0 | 2858.6 | 2634.9 | 2253.5 |
| 40° | 2847.6 | 2880.5 | 2907.5 | 2937.1 | 2965.8 | 2988.6 | 3006.3 | 3020.6 | 3011.4 | 2727.8 | 2240.8 |
| 42.5° | 3048.5 | 3083.1 | 3119.4 | 3144.7 | 3159.9 | 3190.3 | 3198.7 | 3208.9 | 3132.9 | 2770.0 | 2183.4 |
| 45° | 3257.8 | 3285.7 | 3316.0 | 3334.6 | 3354.9 | 3370.1 | 3372.6 | 3373.4 | 3223.2 | 2745.5 | 2079.6 |
| 47.5° | 3459.5 | 3483.2 | 3504.3 | 3514.4 | 3524.5 | 3525.4 | 3521.1 | 3514.4 | 3271.3 | 2662.8 | 1954.7 |
| 50° | 3680.6 | 3695.0 | 3704.3 | 3705.1 | 3714.4 | 3696.7 | 3684.9 | 3653.6 | 3266.2 | 2536.2 | 1823.0 |
| 52.5° | 3998.8 | 3995.5 | 3983.6 | 3982.8 | 3953.3 | 3919.5 | 3897.6 | 3852.8 | 3231.6 | 2399.5 | 1671.1 |
| 55° | 4729.7 | 4697.7 | 4734.8 | 4640.3 | 4561.8 | 4509.4 | 4385.4 | 4295.1 | 3266.2 | 2272.0 | 1496.4 |
| 57.5° | 6486.1 | 6376.4 | 6388.2 | 6235.4 | 6068.3 | 5755.2 | 5570.3 | 5320.5 | 3538.0 | 2201.1 | 1276.1 |
| 60° | 8338.6 | 8158.0 | 7987.5 | 7716.6 | 7361.3 | 6963.8 | 6605.9 | 6215.1 | 3808.1 | 2114.2 | 1041.5 |
| 62.5° | 9103.3 | 8870.3 | 8574.1 | 8191.8 | 7735.2 | 7242.3 | 6747.7 | 6302.1 | 3659.5 | 1852.6 | 750.3 |
| 65° | 8856.8 | 8578.3 | 8262.7 | 7763.9 | 7245.7 | 6672.6 | 6130.8 | 5659.8 | 3047.7 | 1354.6 | 453.2 |
| 67.5° | 7981.6 | 7741.9 | 7352.8 | 6881.9 | 6240.5 | 5665.7 | 5129.8 | 4694.3 | 2246.7 | 837.2 | 259.9 |
| 70° | 6720.7 | 6389.0 | 6056.5 | 5604.1 | 4928.1 | 4386.2 | 3887.4 | 3502.6 | 1425.5 | 413.6 | 191.6 |
| 72.5° | 4638.6 | 4376.1 | 4110.2 | 3705.1 | 3200.4 | 2827.4 | 2398.6 | 2082.1 | 746.1 | 222.8 | 176.4 |
| 75° | 1807.0 | 1778.3 | 1747.9 | 1563.9 | 1392.6 | 1115.8 | 979.9 | 883.7 | 310.6 | 193.3 | 173.9 |
| 77.5° | 396.7 | 420.3 | 433.8 | 411.0 | 391.6 | 349.4 | 334.2 | 298.8 | 207.6 | 198.3 | 172.2 |
| 80° | 218.6 | 218.6 | 218.6 | 221.1 | 216.9 | 216.9 | 214.4 | 210.2 | 194.1 | 198.3 | 168.8 |
| 82.5° | 178.9 | 181.5 | 184.8 | 185.7 | 184.8 | 185.7 | 184.0 | 183.1 | 189.9 | 199.2 | 160.4 |
| 85° | 136.7 | 145.2 | 150.2 | 157.0 | 163.7 | 168.0 | 169.6 | 170.5 | 174.7 | 189.1 | 140.1 |
| 87.5° | 97.1 | 103.8 | 114.8 | 116.5 | 124.1 | 133.4 | 136.7 | 141.8 | 139.3 | 143.5 | 65.8 |
| 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: P162125

CATALOG NUMBER: OVF-E05-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

| | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1172.3 | 1172.3 | 1172.3 | 1172.3 | 1172.3 |
| 2.5° | 1135.2 | 1128.4 | 1125.9 | 1125.0 | 1123.4 |
| 5° | 1128.4 | 1124.2 | 1120.8 | 1118.3 | 1120.0 |
| 7.5° | 1158.8 | 1156.3 | 1150.4 | 1148.7 | 1151.2 |
| 10° | 1212.8 | 1206.9 | 1198.5 | 1199.3 | 1198.5 |
| 12.5° | 1280.3 | 1264.3 | 1250.8 | 1244.9 | 1240.7 |
| 15° | 1349.5 | 1318.3 | 1290.5 | 1277.8 | 1272.7 |
| 17.5° | 1426.3 | 1373.2 | 1330.1 | 1307.3 | 1303.1 |
| 20° | 1507.4 | 1433.9 | 1378.2 | 1351.2 | 1347.0 |
| 22.5° | 1601.1 | 1499.8 | 1428.9 | 1391.7 | 1385.8 |
| 25° | 1692.2 | 1558.9 | 1464.3 | 1418.7 | 1411.2 |
| 27.5° | 1774.9 | 1603.6 | 1485.4 | 1431.4 | 1423.8 |
| 30° | 1844.1 | 1639.0 | 1503.1 | 1441.5 | 1433.1 |
| 32.5° | 1889.7 | 1658.4 | 1509.1 | 1442.4 | 1432.3 |
| 35° | 1904.0 | 1645.8 | 1483.7 | 1406.9 | 1398.5 |
| 37.5° | 1873.7 | 1594.3 | 1416.2 | 1329.3 | 1322.5 |
| 40° | 1804.5 | 1498.9 | 1309.9 | 1219.6 | 1211.1 |
| 42.5° | 1696.4 | 1378.2 | 1186.7 | 1091.3 | 1083.7 |
| 45° | 1576.6 | 1249.1 | 1055.8 | 960.5 | 952.9 |
| 47.5° | 1445.8 | 1112.4 | 918.3 | 830.5 | 818.7 |
| 50° | 1302.3 | 963.8 | 778.2 | 692.1 | 681.1 |
| 52.5° | 1134.3 | 801.8 | 629.6 | 552.0 | 545.2 |
| 55° | 937.7 | 638.9 | 501.3 | 444.8 | 438.0 |
| 57.5° | 729.2 | 486.1 | 398.4 | 370.5 | 359.5 |
| 60° | 529.2 | 369.7 | 317.3 | 303.8 | 297.9 |
| 62.5° | 359.5 | 276.0 | 255.7 | 251.5 | 247.3 |
| 65° | 243.9 | 216.1 | 210.2 | 211.0 | 208.5 |
| 67.5° | 192.4 | 181.5 | 178.1 | 179.8 | 178.9 |
| 70° | 168.8 | 160.4 | 159.5 | 161.2 | 160.4 |
| 72.5° | 159.5 | 148.5 | 150.2 | 152.8 | 151.9 |
| 75° | 155.3 | 143.5 | 146.9 | 148.5 | 144.3 |
| 77.5° | 151.1 | 135.9 | 146.0 | 149.4 | 140.9 |
| 80° | 145.2 | 129.1 | 152.8 | 151.1 | 135.0 |
| 82.5° | 132.5 | 113.9 | 149.4 | 136.7 | 121.5 |
| 85° | 108.0 | 85.2 | 168.0 | 120.7 | 88.6 |
| 87.5° | 69.2 | 51.5 | 116.5 | 92.0 | 59.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)