

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: P161821

Luminaire Tested: **OVF-F04-LED-E-U-SL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P161821
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33701)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVF-F04-LED-E-U-SL2-7030
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8830.7 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

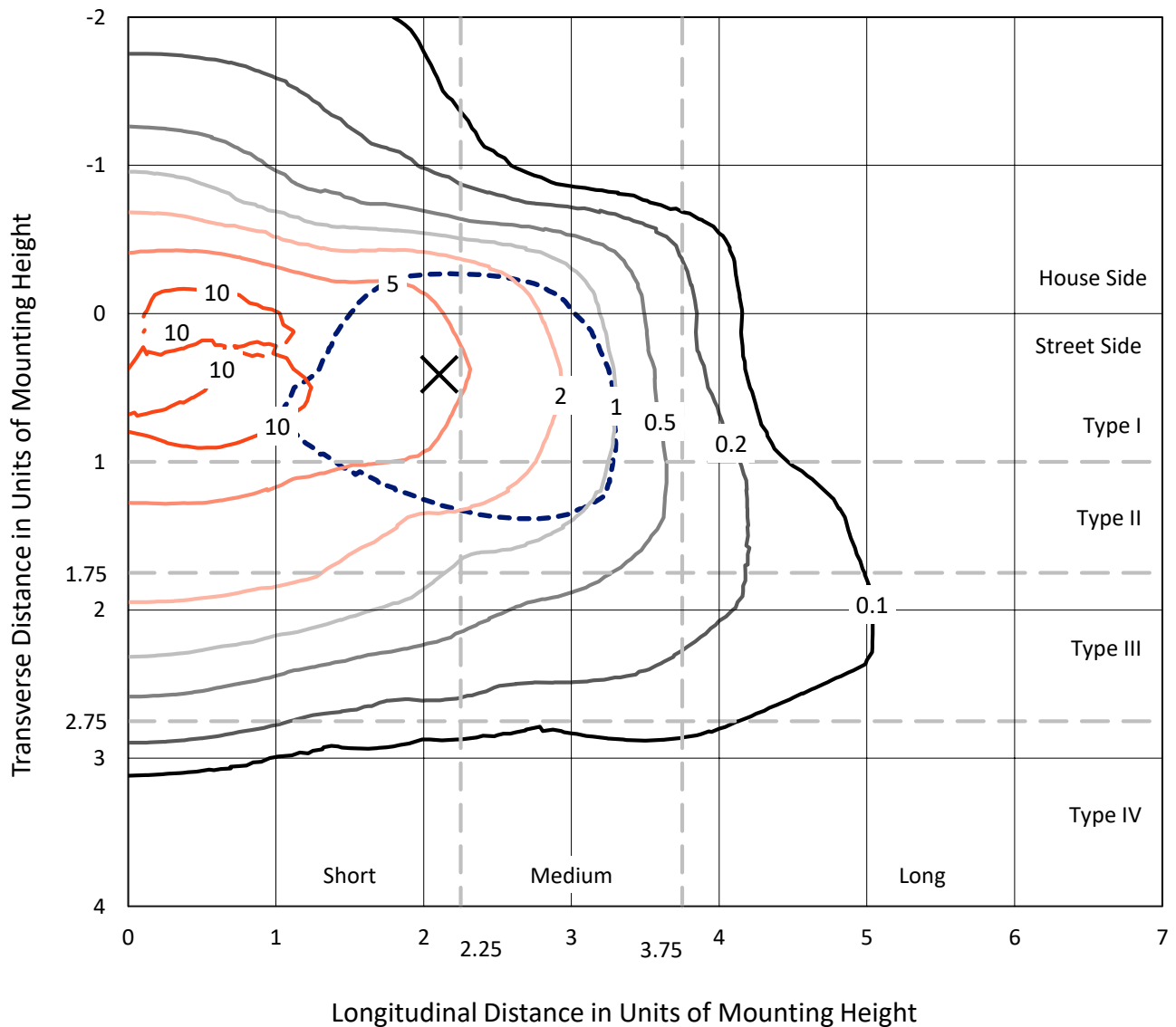
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

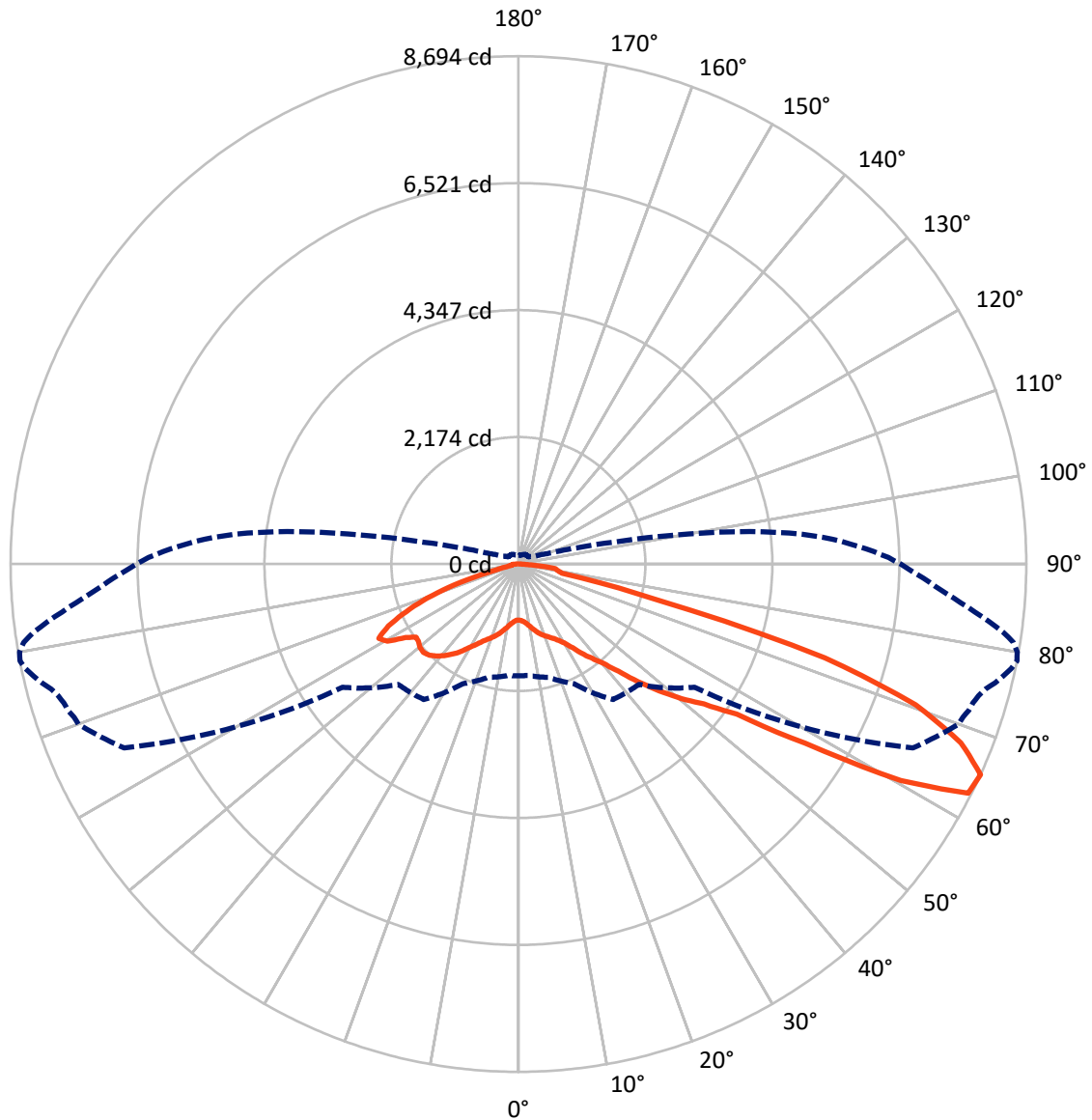
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2004.5 | 0.0 | 2004.5 |
| | % Fixture | 22.7 | 0.0 | 22.7 |
| Street Side | Lumens | 6826.2 | 0.0 | 6826.2 |
| | % Fixture | 77.3 | 0.0 | 77.3 |
| Total | Lumens | 8830.7 | 0.0 | 8830.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 95.3 | 1.1 |
| 10°-20° | 310.1 | 3.5 |
| 20°-30° | 534.6 | 6.1 |
| 30°-40° | 871.8 | 9.9 |
| 40°-50° | 1455.4 | 16.5 |
| 50°-60° | 1967.9 | 22.3 |
| 60°-70° | 2444.7 | 27.7 |
| 70°-80° | 979.0 | 11.1 |
| 80°-90° | 172.0 | 1.9 |
| 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° | 8830.7 | 100.0 |
| 0°-180° | 8830.7 | 100.0 |



REPORT NUMBER: P161821

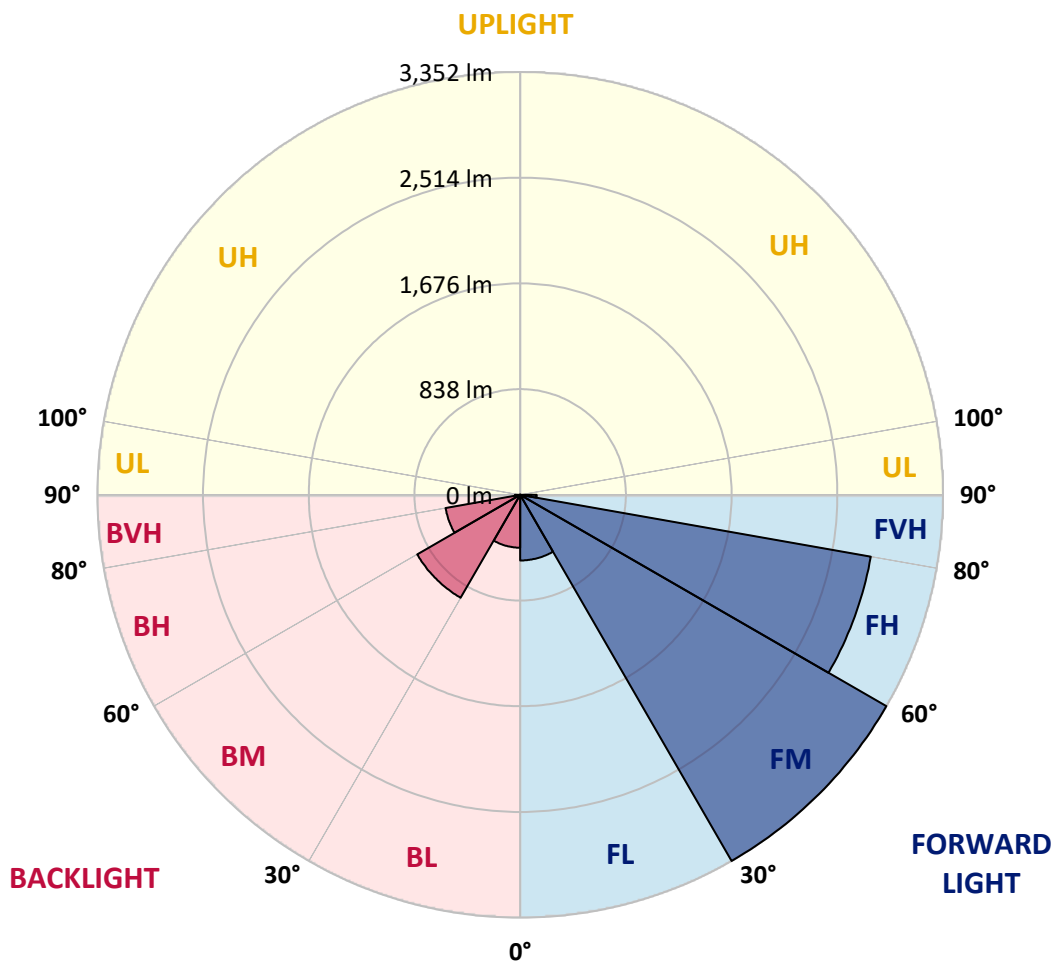
CATALOG NUMBER: OVF-F04-LED-E-U-SL2-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 520.7 | 5.9 | | | |
| FM (30°-60°) | 3352.3 | 38.0 | | | |
| FH (60°-80°) | 2822.8 | 32.0 | | | G2/5000 |
| FVH (80°-90°) | 130.5 | 1.5 | | | G2/225 |
| BL (0°-30°) | 419.2 | 4.7 | B1/500 | | |
| BM (30°-60°) | 942.8 | 10.7 | B1/1000 | | |
| BH (60°-80°) | 600.9 | 6.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 41.5 | 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° | 65° | 70° | 71° | 72° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 |
| 2.5° | 966.9 | 966.3 | 969.3 | 971.7 | 971.7 | 973.0 | 972.3 | 968.7 | 969.3 | 970.5 | 969.3 |
| 5° | 977.8 | 975.4 | 978.4 | 982.0 | 984.4 | 987.4 | 990.4 | 991.0 | 993.5 | 993.5 | 992.9 |
| 7.5° | 1001.3 | 999.5 | 1003.7 | 1004.9 | 1010.4 | 1015.2 | 1021.2 | 1025.4 | 1027.8 | 1029.1 | 1030.9 |
| 10° | 1041.7 | 1040.5 | 1041.7 | 1044.1 | 1046.5 | 1052.0 | 1062.2 | 1071.3 | 1076.7 | 1076.7 | 1079.1 |
| 12.5° | 1090.6 | 1085.8 | 1087.0 | 1082.1 | 1083.3 | 1094.8 | 1106.9 | 1121.9 | 1131.0 | 1132.2 | 1133.4 |
| 15° | 1128.6 | 1126.2 | 1124.4 | 1117.7 | 1122.5 | 1137.6 | 1156.3 | 1178.0 | 1185.9 | 1192.5 | 1191.9 |
| 17.5° | 1164.2 | 1161.1 | 1156.9 | 1147.9 | 1152.7 | 1176.8 | 1205.2 | 1229.3 | 1242.6 | 1243.8 | 1245.0 |
| 20° | 1206.4 | 1202.8 | 1194.9 | 1176.2 | 1175.0 | 1208.8 | 1246.8 | 1272.7 | 1284.8 | 1290.2 | 1292.0 |
| 22.5° | 1260.1 | 1255.2 | 1240.8 | 1204.6 | 1194.9 | 1234.7 | 1280.0 | 1311.9 | 1324.6 | 1330.0 | 1333.1 |
| 25° | 1328.8 | 1319.2 | 1296.3 | 1239.6 | 1219.7 | 1261.3 | 1315.6 | 1354.2 | 1371.7 | 1377.1 | 1380.7 |
| 27.5° | 1391.0 | 1383.7 | 1356.0 | 1289.0 | 1254.6 | 1296.9 | 1359.0 | 1408.5 | 1432.6 | 1439.2 | 1444.7 |
| 30° | 1463.4 | 1453.1 | 1430.8 | 1359.6 | 1313.8 | 1351.2 | 1430.2 | 1492.9 | 1522.5 | 1523.1 | 1535.1 |
| 32.5° | 1633.5 | 1626.8 | 1606.3 | 1527.9 | 1450.7 | 1453.1 | 1526.7 | 1612.9 | 1642.5 | 1647.3 | 1658.2 |
| 35° | 1885.6 | 1883.2 | 1882.6 | 1839.1 | 1781.8 | 1722.7 | 1728.2 | 1793.9 | 1813.8 | 1821.6 | 1825.3 |
| 37.5° | 2051.5 | 2072.6 | 2123.8 | 2155.2 | 2140.7 | 2153.4 | 2087.1 | 2006.8 | 1995.4 | 1986.9 | 1990.5 |
| 40° | 2194.4 | 2213.1 | 2316.9 | 2461.6 | 2549.7 | 2611.8 | 2553.3 | 2307.2 | 2215.5 | 2189.0 | 2178.7 |
| 42.5° | 2278.9 | 2300.0 | 2448.4 | 2680.0 | 2904.4 | 3051.6 | 3067.2 | 2725.2 | 2492.4 | 2489.4 | 2450.8 |
| 45° | 2324.7 | 2345.8 | 2523.2 | 2835.0 | 3152.3 | 3417.7 | 3555.2 | 3239.8 | 2897.7 | 2872.4 | 2818.7 |
| 47.5° | 2315.7 | 2335.6 | 2520.1 | 2892.3 | 3298.9 | 3660.8 | 3935.8 | 3759.7 | 3365.2 | 3304.3 | 3230.1 |
| 50° | 2205.3 | 2219.8 | 2413.4 | 2798.8 | 3259.7 | 3762.1 | 4196.4 | 4236.8 | 3894.2 | 3811.6 | 3700.6 |
| 52.5° | 2091.3 | 2117.2 | 2277.7 | 2632.9 | 3081.7 | 3699.4 | 4352.1 | 4671.1 | 4388.2 | 4331.5 | 4189.2 |
| 55° | 2029.8 | 2050.3 | 2181.2 | 2484.6 | 2894.1 | 3485.3 | 4416.6 | 5080.7 | 4988.4 | 4965.5 | 4864.8 |
| 57.5° | 2027.3 | 2047.2 | 2151.6 | 2394.7 | 2741.5 | 3262.1 | 4435.3 | 5713.5 | 5984.3 | 5990.3 | 5961.4 |
| 60° | 2126.3 | 2146.8 | 2234.2 | 2438.1 | 2694.5 | 3070.9 | 4368.3 | 6611.0 | 7209.4 | 7262.5 | 7351.1 |
| 62.5° | 2140.1 | 2149.8 | 2255.3 | 2530.4 | 2865.8 | 2927.9 | 4092.7 | 7358.4 | 8051.4 | 8100.3 | 8149.2 |
| 65° | 1914.5 | 1913.9 | 2007.4 | 2260.8 | 2830.2 | 2913.4 | 3678.3 | 7450.1 | 8017.7 | 8047.2 | 8108.1 |
| 67.5° | 1427.8 | 1415.7 | 1468.8 | 1700.4 | 2245.7 | 2917.0 | 3187.3 | 6758.2 | 7392.8 | 7448.9 | 7469.4 |
| 70° | 735.9 | 754.6 | 790.8 | 932.5 | 1426.0 | 2348.2 | 2737.9 | 5702.0 | 6489.8 | 6510.9 | 6583.9 |
| 72.5° | 302.2 | 294.4 | 319.1 | 392.1 | 713.6 | 1552.0 | 2265.0 | 4499.8 | 5360.0 | 5345.5 | 5358.8 |
| 75° | 168.3 | 170.7 | 177.9 | 204.5 | 346.8 | 779.3 | 1945.9 | 3185.5 | 3645.1 | 3395.4 | 3320.0 |
| 77.5° | 135.1 | 136.3 | 136.9 | 141.8 | 189.4 | 415.6 | 1493.5 | 2097.9 | 1833.1 | 1702.2 | 1652.2 |
| 80° | 98.9 | 105.6 | 112.8 | 114.0 | 130.3 | 235.8 | 819.1 | 1766.2 | 1547.2 | 1438.6 | 1349.3 |
| 82.5° | 79.6 | 82.6 | 98.3 | 100.7 | 103.7 | 140.5 | 371.0 | 1658.8 | 1541.2 | 1430.2 | 1307.1 |
| 85° | 47.7 | 53.1 | 80.2 | 80.8 | 82.0 | 85.7 | 205.1 | 675.6 | 840.3 | 742.5 | 679.8 |
| 87.5° | 16.9 | 21.7 | 39.8 | 33.2 | 42.2 | 35.0 | 89.9 | 226.2 | 278.7 | 264.8 | 234.6 |
| 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: P161821

CATALOG NUMBER: OVF-F04-LED-E-U-SL2-7030

CANDELA DISTRIBUTION (continued):

| | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 |
| 2.5° | 968.7 | 968.7 | 969.9 | 969.3 | 969.3 | 969.3 | 969.3 | 968.1 | 968.1 | 966.3 | 967.5 |
| 5° | 992.9 | 992.3 | 992.9 | 993.5 | 992.9 | 994.1 | 993.5 | 992.9 | 993.5 | 992.9 | 993.5 |
| 7.5° | 1031.5 | 1028.4 | 1032.7 | 1030.3 | 1029.7 | 1033.3 | 1031.5 | 1033.3 | 1033.9 | 1033.3 | 1032.7 |
| 10° | 1080.3 | 1082.1 | 1082.1 | 1082.1 | 1080.9 | 1084.5 | 1085.1 | 1086.4 | 1087.0 | 1089.4 | 1089.4 |
| 12.5° | 1136.4 | 1137.0 | 1139.4 | 1138.8 | 1140.0 | 1144.3 | 1147.3 | 1147.9 | 1148.5 | 1150.3 | 1147.9 |
| 15° | 1196.7 | 1197.9 | 1197.9 | 1203.4 | 1201.6 | 1207.6 | 1209.4 | 1209.4 | 1210.0 | 1217.2 | 1217.9 |
| 17.5° | 1250.4 | 1250.4 | 1255.2 | 1255.2 | 1260.1 | 1261.3 | 1266.7 | 1267.3 | 1269.7 | 1276.4 | 1277.0 |
| 20° | 1295.7 | 1298.1 | 1301.1 | 1304.7 | 1306.5 | 1310.1 | 1313.8 | 1317.4 | 1320.4 | 1325.8 | 1326.4 |
| 22.5° | 1338.5 | 1340.9 | 1345.7 | 1348.1 | 1352.4 | 1354.8 | 1357.8 | 1362.0 | 1366.8 | 1374.1 | 1375.9 |
| 25° | 1388.0 | 1390.4 | 1395.8 | 1399.4 | 1404.2 | 1407.9 | 1413.3 | 1418.7 | 1421.7 | 1429.0 | 1434.4 |
| 27.5° | 1450.7 | 1457.9 | 1465.2 | 1467.0 | 1470.6 | 1479.0 | 1486.3 | 1493.5 | 1500.1 | 1503.8 | 1510.4 |
| 30° | 1542.4 | 1542.4 | 1557.4 | 1557.4 | 1564.1 | 1571.9 | 1576.8 | 1584.6 | 1596.7 | 1600.3 | 1608.7 |
| 32.5° | 1665.4 | 1668.4 | 1673.9 | 1690.2 | 1702.2 | 1705.8 | 1709.5 | 1720.9 | 1728.2 | 1737.2 | 1747.5 |
| 35° | 1841.0 | 1844.0 | 1847.0 | 1862.7 | 1876.5 | 1880.2 | 1883.8 | 1891.0 | 1903.1 | 1918.8 | 1913.9 |
| 37.5° | 1998.4 | 2000.2 | 2009.8 | 2027.3 | 2035.2 | 2044.8 | 2047.8 | 2061.1 | 2067.8 | 2082.2 | 2082.8 |
| 40° | 2187.8 | 2183.6 | 2189.0 | 2208.9 | 2221.0 | 2220.4 | 2230.0 | 2254.1 | 2259.0 | 2265.6 | 2282.5 |
| 42.5° | 2452.0 | 2436.3 | 2453.2 | 2459.8 | 2477.9 | 2489.4 | 2508.7 | 2525.0 | 2536.4 | 2561.8 | 2573.8 |
| 45° | 2793.4 | 2777.1 | 2791.0 | 2794.0 | 2831.4 | 2842.9 | 2871.8 | 2893.5 | 2918.3 | 2947.2 | 2955.7 |
| 47.5° | 3182.5 | 3152.3 | 3135.4 | 3154.1 | 3198.7 | 3217.4 | 3245.8 | 3266.3 | 3292.2 | 3307.3 | 3302.5 |
| 50° | 3633.0 | 3560.7 | 3526.9 | 3517.2 | 3549.2 | 3575.7 | 3619.8 | 3629.4 | 3641.5 | 3640.9 | 3641.5 |
| 52.5° | 4135.5 | 4060.1 | 3989.5 | 3940.7 | 3935.8 | 3971.4 | 3982.3 | 3984.7 | 3981.1 | 3953.9 | 3937.1 |
| 55° | 4791.8 | 4786.4 | 4712.2 | 4610.8 | 4604.2 | 4600.0 | 4536.6 | 4528.8 | 4514.3 | 4472.7 | 4415.4 |
| 57.5° | 5982.5 | 6042.8 | 5993.9 | 5991.5 | 5938.5 | 5903.5 | 5787.1 | 5729.1 | 5668.2 | 5555.4 | 5465.5 |
| 60° | 7359.0 | 7446.4 | 7494.7 | 7515.8 | 7619.6 | 7619.6 | 7524.3 | 7442.2 | 7343.3 | 7171.4 | 7003.7 |
| 62.5° | 8187.8 | 8264.4 | 8335.5 | 8447.1 | 8579.2 | 8637.7 | 8642.6 | 8569.6 | 8444.7 | 8248.7 | 8011.6 |
| 65° | 8135.3 | 8192.0 | 8278.2 | 8409.7 | 8518.9 | 8623.9 | 8694.4 | 8672.1 | 8576.8 | 8380.8 | 8122.6 |
| 67.5° | 7541.1 | 7623.8 | 7735.4 | 7856.6 | 7957.9 | 8056.9 | 8170.9 | 8179.3 | 8154.0 | 7967.6 | 7734.2 |
| 70° | 6624.3 | 6730.4 | 6801.0 | 6953.6 | 6999.5 | 7099.6 | 7214.2 | 7269.1 | 7228.1 | 7084.5 | 6947.6 |
| 72.5° | 5381.7 | 5465.5 | 5477.6 | 5411.3 | 5434.2 | 5458.9 | 5486.7 | 5358.2 | 5308.7 | 5116.9 | 5028.8 |
| 75° | 3263.3 | 3152.9 | 3060.0 | 2967.7 | 2692.1 | 2594.3 | 2444.1 | 2148.0 | 2114.2 | 1910.9 | 1769.8 |
| 77.5° | 1552.0 | 1505.6 | 1421.7 | 1281.2 | 1094.2 | 915.0 | 759.4 | 617.1 | 564.0 | 464.5 | 395.7 |
| 80° | 1299.3 | 1243.8 | 1168.4 | 1064.0 | 933.1 | 802.9 | 679.8 | 574.2 | 468.1 | 381.2 | 304.6 |
| 82.5° | 1191.9 | 1095.4 | 989.2 | 899.4 | 807.1 | 718.4 | 635.8 | 540.5 | 484.4 | 390.9 | 319.1 |
| 85° | 602.6 | 527.8 | 427.7 | 360.1 | 304.0 | 247.3 | 214.1 | 182.8 | 162.9 | 129.7 | 112.8 |
| 87.5° | 202.1 | 165.3 | 123.1 | 104.4 | 94.1 | 80.8 | 74.2 | 70.6 | 68.8 | 60.9 | 54.3 |
| 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: P161821

CATALOG NUMBER: OVF-F04-LED-E-U-SL2-7030

CANDELA DISTRIBUTION (continued):

| | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 91° | 92° | 93° | 94° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 |
| 2.5° | 967.5 | 967.5 | 967.5 | 967.5 | 966.9 | 966.9 | 966.9 | 966.9 | 966.9 | 966.9 | 967.5 |
| 5° | 992.3 | 992.3 | 992.9 | 994.7 | 991.0 | 992.3 | 993.5 | 991.7 | 993.5 | 991.7 | 994.1 |
| 7.5° | 1032.1 | 1033.9 | 1032.7 | 1035.1 | 1033.9 | 1037.5 | 1035.1 | 1033.3 | 1034.5 | 1034.5 | 1035.1 |
| 10° | 1088.2 | 1090.6 | 1088.8 | 1090.0 | 1090.0 | 1092.4 | 1089.4 | 1090.0 | 1090.6 | 1089.4 | 1090.0 |
| 12.5° | 1150.3 | 1151.5 | 1150.9 | 1154.5 | 1152.7 | 1154.5 | 1152.7 | 1155.1 | 1156.3 | 1157.5 | 1157.5 |
| 15° | 1217.9 | 1219.1 | 1222.7 | 1222.1 | 1225.7 | 1224.5 | 1225.1 | 1222.1 | 1228.1 | 1224.5 | 1225.7 |
| 17.5° | 1280.0 | 1279.4 | 1284.2 | 1286.0 | 1286.6 | 1287.2 | 1289.0 | 1286.6 | 1287.2 | 1289.0 | 1287.8 |
| 20° | 1328.2 | 1332.5 | 1333.7 | 1338.5 | 1342.1 | 1343.3 | 1342.7 | 1344.5 | 1346.9 | 1344.5 | 1344.5 |
| 22.5° | 1379.5 | 1385.5 | 1387.3 | 1390.4 | 1394.0 | 1394.6 | 1398.2 | 1400.0 | 1401.2 | 1400.6 | 1401.2 |
| 25° | 1441.0 | 1445.3 | 1449.5 | 1455.5 | 1459.7 | 1460.3 | 1463.4 | 1465.8 | 1466.4 | 1465.8 | 1469.4 |
| 27.5° | 1516.4 | 1521.9 | 1527.3 | 1534.5 | 1539.4 | 1540.6 | 1547.2 | 1547.2 | 1550.8 | 1552.6 | 1553.8 |
| 30° | 1613.5 | 1615.4 | 1629.2 | 1636.5 | 1634.7 | 1643.1 | 1652.2 | 1651.5 | 1655.8 | 1657.0 | 1660.0 |
| 32.5° | 1754.7 | 1754.7 | 1766.8 | 1775.8 | 1785.5 | 1782.4 | 1796.3 | 1793.9 | 1800.5 | 1804.2 | 1802.3 |
| 35° | 1926.0 | 1932.0 | 1941.1 | 1946.5 | 1956.8 | 1962.2 | 1971.8 | 1977.3 | 1980.3 | 1979.7 | 1973.1 |
| 37.5° | 2102.7 | 2112.4 | 2116.0 | 2129.3 | 2139.5 | 2148.6 | 2149.8 | 2143.8 | 2146.2 | 2134.1 | 2130.5 |
| 40° | 2304.8 | 2318.7 | 2327.1 | 2347.0 | 2345.8 | 2357.3 | 2358.5 | 2341.0 | 2338.0 | 2322.3 | 2306.0 |
| 42.5° | 2587.1 | 2606.4 | 2613.0 | 2628.1 | 2616.1 | 2621.5 | 2591.3 | 2584.1 | 2560.0 | 2534.6 | 2497.8 |
| 45° | 2967.7 | 2958.1 | 2962.3 | 2958.1 | 2926.1 | 2902.6 | 2877.8 | 2842.3 | 2806.7 | 2757.8 | 2705.3 |
| 47.5° | 3302.5 | 3307.3 | 3276.0 | 3256.0 | 3204.2 | 3171.0 | 3125.8 | 3063.6 | 3020.2 | 2954.4 | 2885.1 |
| 50° | 3627.6 | 3573.9 | 3529.9 | 3484.1 | 3438.2 | 3377.3 | 3309.1 | 3254.2 | 3190.9 | 3108.9 | 3023.8 |
| 52.5° | 3891.8 | 3822.4 | 3769.4 | 3704.2 | 3642.1 | 3574.5 | 3503.4 | 3423.7 | 3340.5 | 3258.5 | 3153.5 |
| 55° | 4359.9 | 4259.2 | 4191.0 | 4077.0 | 4006.4 | 3911.7 | 3856.2 | 3753.1 | 3637.3 | 3528.7 | 3417.1 |
| 57.5° | 5364.2 | 5213.4 | 5135.6 | 5071.1 | 4961.3 | 4805.7 | 4706.7 | 4537.2 | 4372.0 | 4256.1 | 4070.4 |
| 60° | 6877.0 | 6723.8 | 6594.7 | 6442.1 | 6273.8 | 6062.7 | 5968.6 | 5769.0 | 5532.5 | 5341.3 | 5095.8 |
| 62.5° | 7819.8 | 7608.1 | 7398.8 | 7184.7 | 7015.8 | 6850.5 | 6655.7 | 6454.2 | 6220.1 | 5960.2 | 5691.7 |
| 65° | 7857.8 | 7603.9 | 7353.5 | 7135.2 | 6937.3 | 6722.6 | 6539.8 | 6335.4 | 6089.3 | 5821.4 | 5542.8 |
| 67.5° | 7463.3 | 7179.2 | 6910.8 | 6671.3 | 6445.1 | 6246.1 | 6054.9 | 5862.5 | 5598.9 | 5374.5 | 5089.2 |
| 70° | 6677.4 | 6418.0 | 6174.9 | 5902.3 | 5729.1 | 5505.4 | 5319.0 | 5116.3 | 4927.5 | 4717.6 | 4450.4 |
| 72.5° | 4904.6 | 4709.1 | 4431.7 | 4315.9 | 4223.0 | 3985.9 | 3847.2 | 3830.3 | 3709.6 | 3458.1 | 3258.5 |
| 75° | 1824.1 | 1552.6 | 1470.6 | 1519.4 | 1438.0 | 1465.2 | 1454.9 | 1397.0 | 1399.4 | 1356.6 | 1305.9 |
| 77.5° | 357.1 | 331.8 | 311.9 | 317.3 | 295.0 | 285.3 | 305.8 | 299.8 | 288.9 | 291.9 | 287.1 |
| 80° | 243.1 | 205.7 | 186.4 | 179.1 | 170.1 | 165.9 | 164.7 | 162.9 | 159.2 | 157.4 | 152.0 |
| 82.5° | 239.5 | 177.9 | 140.5 | 120.6 | 113.4 | 109.8 | 106.8 | 106.2 | 105.0 | 104.4 | 106.2 |
| 85° | 95.3 | 77.2 | 70.6 | 64.5 | 62.7 | 60.9 | 60.9 | 60.3 | 59.7 | 60.9 | 63.3 |
| 87.5° | 46.4 | 39.2 | 35.6 | 32.6 | 31.4 | 30.8 | 30.8 | 31.4 | 32.0 | 34.4 | 39.2 |
| 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: P161821

CATALOG NUMBER: OVF-F04-LED-E-U-SL2-7030

CANDELA DISTRIBUTION (continued):

| | 95° | 96° | 97° | 98° | 99° | 100° | 101° | 102° | 103° | 104° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 |
| 2.5° | 966.3 | 966.9 | 965.7 | 966.3 | 965.7 | 964.5 | 963.9 | 965.7 | 965.1 | 964.5 | 964.5 |
| 5° | 991.0 | 993.5 | 992.3 | 991.0 | 991.0 | 990.4 | 990.4 | 990.4 | 989.8 | 990.4 | 988.6 |
| 7.5° | 1033.9 | 1033.3 | 1033.3 | 1032.1 | 1030.9 | 1032.1 | 1031.5 | 1029.7 | 1030.3 | 1029.1 | 1027.2 |
| 10° | 1088.8 | 1087.0 | 1090.0 | 1090.0 | 1087.6 | 1087.0 | 1085.8 | 1083.9 | 1083.9 | 1082.1 | 1082.1 |
| 12.5° | 1153.9 | 1152.1 | 1156.3 | 1153.3 | 1149.7 | 1149.1 | 1145.5 | 1144.3 | 1146.1 | 1145.5 | 1144.3 |
| 15° | 1220.3 | 1220.9 | 1222.7 | 1222.1 | 1217.9 | 1217.9 | 1213.0 | 1213.6 | 1210.0 | 1208.8 | 1205.8 |
| 17.5° | 1284.8 | 1285.4 | 1283.6 | 1283.6 | 1280.6 | 1278.8 | 1273.3 | 1273.9 | 1271.5 | 1266.7 | 1263.1 |
| 20° | 1342.7 | 1342.1 | 1337.9 | 1341.5 | 1335.5 | 1334.3 | 1329.4 | 1324.6 | 1325.8 | 1321.0 | 1313.8 |
| 22.5° | 1399.4 | 1398.2 | 1397.0 | 1395.2 | 1392.2 | 1391.0 | 1385.5 | 1384.9 | 1378.9 | 1371.7 | 1365.6 |
| 25° | 1465.2 | 1464.6 | 1462.7 | 1463.4 | 1457.3 | 1457.9 | 1448.3 | 1445.9 | 1442.2 | 1434.4 | 1429.6 |
| 27.5° | 1550.2 | 1550.2 | 1545.4 | 1543.6 | 1541.8 | 1539.4 | 1530.9 | 1524.9 | 1515.8 | 1506.8 | 1497.1 |
| 30° | 1654.6 | 1653.4 | 1652.2 | 1647.3 | 1640.7 | 1637.1 | 1622.0 | 1612.3 | 1600.3 | 1583.4 | 1568.9 |
| 32.5° | 1803.6 | 1793.3 | 1784.9 | 1774.0 | 1763.1 | 1751.7 | 1728.2 | 1711.9 | 1692.6 | 1665.4 | 1642.5 |
| 35° | 1969.4 | 1951.9 | 1942.9 | 1920.6 | 1900.1 | 1877.1 | 1848.8 | 1815.6 | 1789.1 | 1753.5 | 1716.1 |
| 37.5° | 2106.4 | 2093.1 | 2069.0 | 2043.6 | 2014.7 | 1971.2 | 1939.3 | 1903.7 | 1857.2 | 1818.0 | 1772.8 |
| 40° | 2275.3 | 2245.1 | 2210.7 | 2168.5 | 2128.7 | 2079.8 | 2035.8 | 1984.5 | 1927.8 | 1871.1 | 1812.0 |
| 42.5° | 2452.6 | 2406.1 | 2349.4 | 2300.6 | 2240.3 | 2176.3 | 2119.0 | 2049.7 | 1977.3 | 1901.3 | 1822.3 |
| 45° | 2633.5 | 2576.2 | 2500.8 | 2431.5 | 2347.6 | 2267.4 | 2185.4 | 2090.7 | 1991.7 | 1890.4 | 1790.9 |
| 47.5° | 2799.4 | 2715.6 | 2629.9 | 2536.4 | 2439.9 | 2336.8 | 2220.4 | 2096.1 | 1965.8 | 1832.5 | 1708.2 |
| 50° | 2929.7 | 2824.8 | 2716.8 | 2608.8 | 2490.6 | 2356.7 | 2210.1 | 2047.8 | 1887.4 | 1727.5 | 1584.6 |
| 52.5° | 3044.9 | 2927.3 | 2794.6 | 2660.7 | 2514.7 | 2350.0 | 2166.7 | 1975.5 | 1780.0 | 1603.3 | 1442.8 |
| 55° | 3268.1 | 3120.3 | 2945.4 | 2772.9 | 2588.3 | 2380.8 | 2152.2 | 1918.2 | 1693.2 | 1500.7 | 1330.0 |
| 57.5° | 3874.3 | 3674.7 | 3403.8 | 3164.4 | 2930.3 | 2628.1 | 2306.0 | 2017.7 | 1731.2 | 1503.8 | 1313.8 |
| 60° | 4829.2 | 4504.1 | 4194.0 | 3829.1 | 3450.3 | 3035.9 | 2604.0 | 2215.5 | 1866.3 | 1581.0 | 1352.4 |
| 62.5° | 5382.9 | 5039.7 | 4641.0 | 4198.8 | 3707.8 | 3203.0 | 2707.1 | 2253.5 | 1870.5 | 1559.9 | 1306.5 |
| 65° | 5233.3 | 4888.3 | 4449.8 | 3997.4 | 3475.0 | 2958.7 | 2466.5 | 2031.0 | 1659.4 | 1372.3 | 1129.8 |
| 67.5° | 4789.4 | 4428.7 | 4016.7 | 3514.8 | 3015.4 | 2537.0 | 2088.3 | 1678.1 | 1349.3 | 1081.5 | 867.4 |
| 70° | 4143.3 | 3822.4 | 3425.5 | 2962.9 | 2478.5 | 2048.4 | 1670.2 | 1300.5 | 1022.4 | 776.9 | 608.0 |
| 72.5° | 3075.1 | 2791.0 | 2543.1 | 2156.4 | 1801.7 | 1464.6 | 1156.3 | 904.8 | 665.3 | 503.1 | 387.3 |
| 75° | 1290.8 | 1194.9 | 1154.5 | 1012.8 | 880.7 | 722.0 | 543.5 | 433.1 | 351.1 | 298.6 | 237.1 |
| 77.5° | 313.1 | 313.1 | 294.4 | 275.7 | 253.3 | 229.2 | 202.7 | 181.0 | 170.1 | 160.4 | 152.6 |
| 80° | 152.0 | 150.8 | 146.0 | 145.4 | 141.1 | 135.7 | 132.7 | 128.5 | 126.7 | 124.3 | 123.1 |
| 82.5° | 106.8 | 106.2 | 104.4 | 106.8 | 106.2 | 108.6 | 109.8 | 110.4 | 110.4 | 111.0 | 111.6 |
| 85° | 67.6 | 70.0 | 74.8 | 80.8 | 86.3 | 92.9 | 98.9 | 103.7 | 107.4 | 110.4 | 112.8 |
| 87.5° | 42.8 | 48.9 | 52.5 | 61.5 | 70.6 | 80.8 | 92.3 | 97.1 | 101.3 | 101.9 | 98.3 |
| 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: P161821

CATALOG NUMBER: OVF-F04-LED-E-U-SL2-7030

CANDELA DISTRIBUTION (continued):

| | 106° | 107° | 108° | 109° | 110° | 115° | 125° | 135° | 145° | 155° | 165° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0° | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 | 959.7 |
| 2.5° | 964.5 | 963.9 | 965.1 | 963.9 | 963.9 | 963.3 | 961.5 | 959.7 | 957.9 | 957.3 | 955.5 |
| 5° | 988.0 | 988.0 | 989.2 | 986.8 | 987.4 | 985.0 | 979.6 | 973.6 | 968.1 | 963.3 | 957.9 |
| 7.5° | 1027.8 | 1026.0 | 1026.6 | 1026.0 | 1024.8 | 1020.0 | 1007.9 | 992.9 | 978.4 | 963.3 | 951.2 |
| 10° | 1080.9 | 1077.3 | 1077.3 | 1076.1 | 1074.3 | 1067.7 | 1042.3 | 1012.2 | 982.0 | 954.9 | 935.0 |
| 12.5° | 1140.0 | 1140.6 | 1135.8 | 1132.8 | 1129.8 | 1115.9 | 1077.9 | 1029.7 | 982.0 | 938.6 | 906.6 |
| 15° | 1201.6 | 1201.0 | 1195.5 | 1193.7 | 1187.1 | 1166.6 | 1109.3 | 1038.7 | 970.5 | 906.6 | 858.9 |
| 17.5° | 1257.1 | 1254.6 | 1249.2 | 1245.6 | 1238.4 | 1211.2 | 1130.4 | 1034.5 | 940.4 | 856.5 | 796.8 |
| 20° | 1307.7 | 1304.7 | 1299.9 | 1293.2 | 1286.0 | 1246.8 | 1138.2 | 1012.8 | 892.7 | 796.8 | 736.5 |
| 22.5° | 1360.2 | 1353.6 | 1348.1 | 1339.1 | 1331.3 | 1278.8 | 1132.8 | 974.2 | 838.4 | 730.5 | 665.9 |
| 25° | 1418.7 | 1410.9 | 1399.4 | 1388.6 | 1376.5 | 1304.7 | 1117.7 | 925.9 | 773.3 | 658.7 | 593.5 |
| 27.5° | 1482.0 | 1470.6 | 1455.5 | 1441.6 | 1422.3 | 1324.0 | 1091.8 | 872.2 | 702.1 | 587.5 | 520.0 |
| 30° | 1549.0 | 1527.9 | 1509.2 | 1488.1 | 1463.4 | 1333.1 | 1054.4 | 805.9 | 623.7 | 515.1 | 447.6 |
| 32.5° | 1614.1 | 1585.8 | 1558.1 | 1527.3 | 1493.5 | 1329.4 | 1001.3 | 727.5 | 545.3 | 447.6 | 390.9 |
| 35° | 1680.5 | 1639.5 | 1600.9 | 1559.3 | 1518.2 | 1311.3 | 928.3 | 640.6 | 471.1 | 391.5 | 350.5 |
| 37.5° | 1725.7 | 1674.5 | 1623.2 | 1573.1 | 1523.7 | 1272.1 | 831.2 | 543.5 | 404.1 | 351.1 | 321.5 |
| 40° | 1748.7 | 1685.9 | 1623.2 | 1561.1 | 1500.1 | 1207.0 | 717.8 | 454.8 | 356.5 | 320.9 | 299.8 |
| 42.5° | 1742.0 | 1664.2 | 1586.4 | 1512.8 | 1438.0 | 1103.2 | 594.8 | 381.8 | 323.3 | 297.4 | 278.7 |
| 45° | 1687.1 | 1594.2 | 1505.6 | 1427.8 | 1334.3 | 969.9 | 488.6 | 336.6 | 298.0 | 278.1 | 260.6 |
| 47.5° | 1584.0 | 1480.2 | 1371.7 | 1283.6 | 1196.1 | 815.5 | 406.6 | 308.2 | 275.7 | 259.4 | 241.9 |
| 50° | 1452.5 | 1332.5 | 1223.9 | 1128.6 | 1042.9 | 671.4 | 350.5 | 284.1 | 257.6 | 243.7 | 225.0 |
| 52.5° | 1307.7 | 1178.6 | 1079.7 | 979.6 | 895.7 | 560.4 | 311.2 | 257.6 | 240.1 | 225.6 | 210.5 |
| 55° | 1187.7 | 1068.3 | 967.5 | 866.8 | 782.3 | 490.4 | 278.7 | 237.1 | 223.8 | 208.7 | 196.6 |
| 57.5° | 1155.7 | 1019.4 | 909.6 | 814.3 | 727.5 | 447.6 | 255.2 | 218.4 | 209.3 | 197.8 | 184.6 |
| 60° | 1169.0 | 1018.8 | 895.7 | 791.4 | 700.3 | 413.2 | 237.7 | 205.7 | 198.5 | 188.2 | 174.3 |
| 62.5° | 1121.3 | 962.7 | 838.4 | 727.5 | 641.2 | 369.8 | 225.0 | 199.7 | 194.8 | 181.0 | 165.3 |
| 65° | 955.5 | 810.1 | 690.7 | 594.8 | 520.6 | 311.2 | 214.7 | 205.1 | 200.3 | 176.1 | 159.2 |
| 67.5° | 727.5 | 606.2 | 510.3 | 438.5 | 384.8 | 257.6 | 212.3 | 223.2 | 213.5 | 178.5 | 157.4 |
| 70° | 503.1 | 411.4 | 349.9 | 306.4 | 272.6 | 217.2 | 220.2 | 243.1 | 229.2 | 186.4 | 167.7 |
| 72.5° | 319.1 | 266.6 | 236.5 | 220.2 | 203.9 | 183.4 | 218.4 | 240.7 | 222.0 | 187.6 | 167.7 |
| 75° | 204.5 | 182.8 | 172.5 | 166.5 | 161.7 | 159.8 | 192.4 | 197.8 | 178.5 | 162.9 | 156.2 |
| 77.5° | 144.8 | 141.1 | 139.3 | 138.7 | 139.3 | 143.6 | 159.2 | 149.0 | 129.7 | 130.3 | 133.9 |
| 80° | 122.4 | 122.4 | 121.2 | 121.8 | 123.1 | 124.9 | 127.3 | 109.8 | 99.5 | 107.4 | 119.4 |
| 82.5° | 112.2 | 114.0 | 115.2 | 116.4 | 118.2 | 115.8 | 108.0 | 83.2 | 80.2 | 104.4 | 117.0 |
| 85° | 114.0 | 114.0 | 114.6 | 115.8 | 116.4 | 104.4 | 89.9 | 62.7 | 61.5 | 117.0 | 110.4 |
| 87.5° | 97.7 | 96.5 | 92.3 | 89.3 | 85.1 | 71.8 | 59.7 | 35.0 | 36.2 | 72.4 | 77.2 |
| 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: P161821

CATALOG NUMBER: OVF-F04-LED-E-U-SL2-7030

CANDELA DISTRIBUTION (continued):

| | 175° | 180° |
|-------|-------|-------|
| 0° | 959.7 | 959.7 |
| 2.5° | 954.9 | 954.9 |
| 5° | 954.9 | 954.9 |
| 7.5° | 947.0 | 944.6 |
| 10° | 924.1 | 921.1 |
| 12.5° | 889.1 | 886.1 |
| 15° | 835.4 | 831.8 |
| 17.5° | 768.5 | 762.4 |
| 20° | 698.5 | 690.1 |
| 22.5° | 628.5 | 621.9 |
| 25° | 556.7 | 550.7 |
| 27.5° | 486.2 | 480.1 |
| 30° | 421.0 | 418.6 |
| 32.5° | 372.8 | 370.4 |
| 35° | 337.2 | 336.0 |
| 37.5° | 313.1 | 311.9 |
| 40° | 291.9 | 290.7 |
| 42.5° | 272.6 | 270.8 |
| 45° | 253.3 | 253.9 |
| 47.5° | 234.0 | 233.4 |
| 50° | 217.2 | 217.2 |
| 52.5° | 203.3 | 202.7 |
| 55° | 190.6 | 190.0 |
| 57.5° | 177.9 | 177.3 |
| 60° | 167.1 | 165.3 |
| 62.5° | 156.8 | 155.6 |
| 65° | 150.2 | 149.6 |
| 67.5° | 145.4 | 143.6 |
| 70° | 144.2 | 139.3 |
| 72.5° | 140.5 | 134.5 |
| 75° | 132.1 | 129.1 |
| 77.5° | 116.4 | 112.8 |
| 80° | 89.9 | 83.2 |
| 82.5° | 75.4 | 65.1 |
| 85° | 55.5 | 51.3 |
| 87.5° | 40.4 | 32.0 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)