

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: P145060

Luminaire Tested: **OVH-E03-LED-E-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145060
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: OVH-E03-LED-E-U-SL2
Description: OVH LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8783.9 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 75.2
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

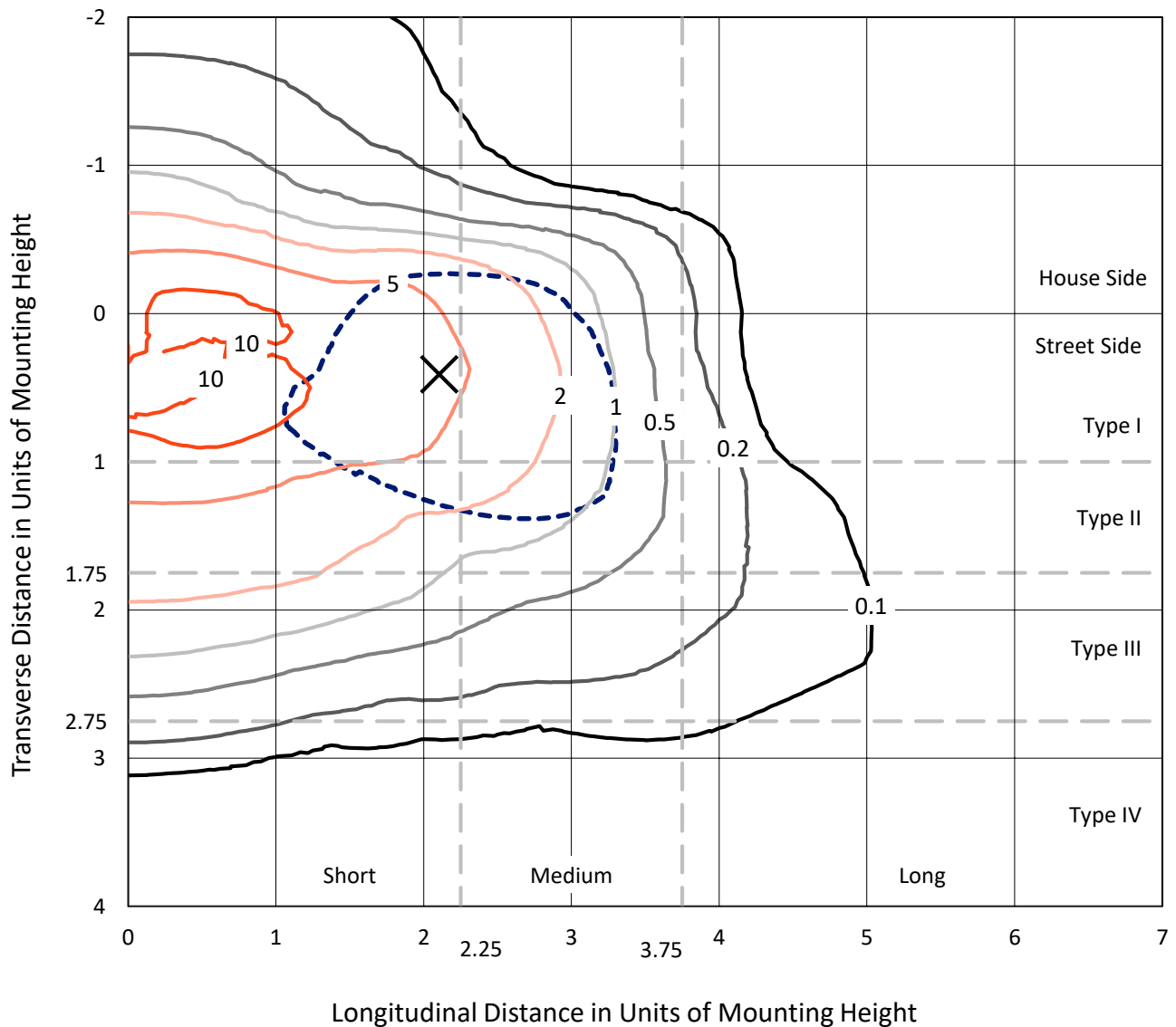


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

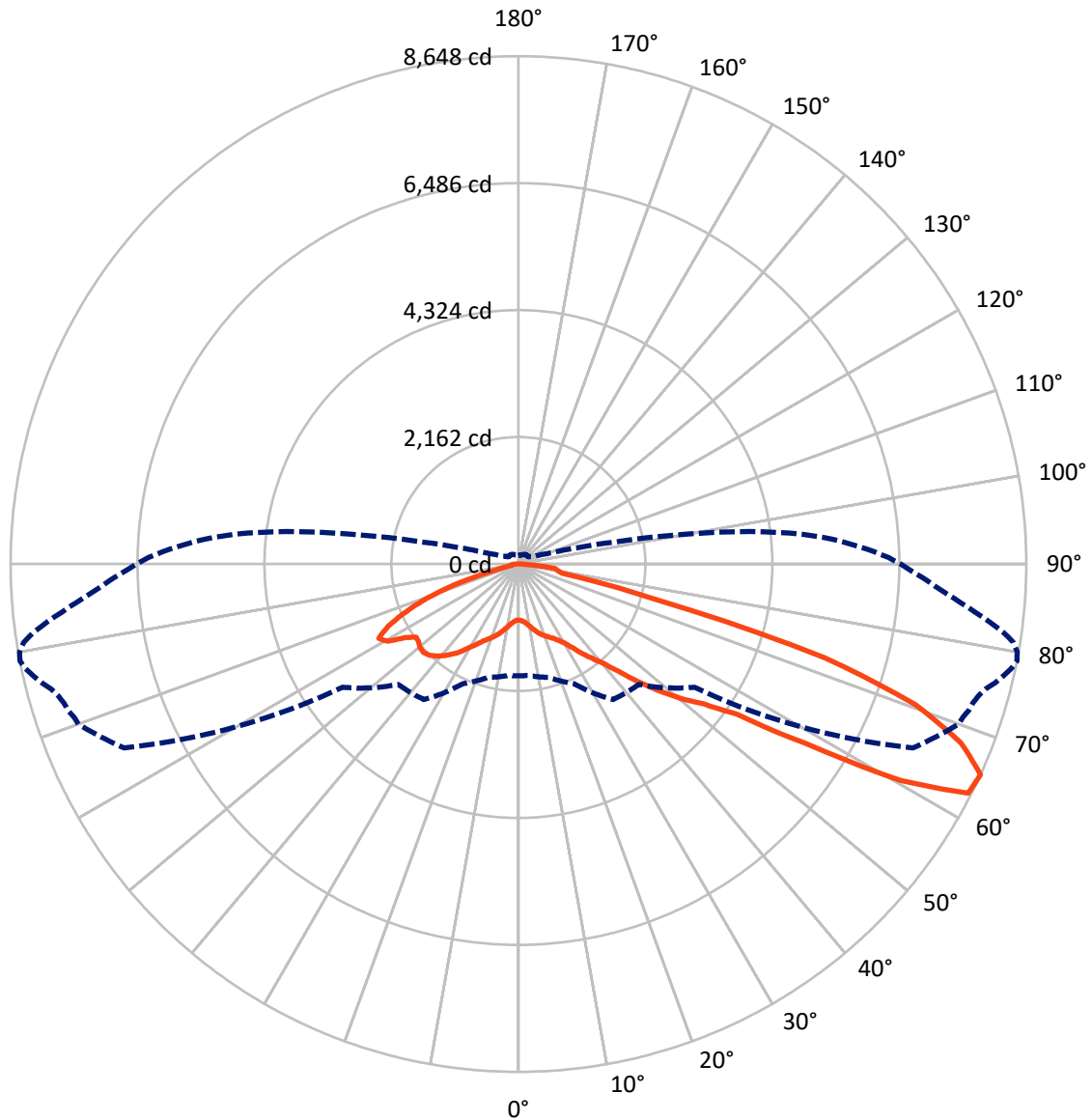


Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - Non-Cutoff

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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 | 1993.8 | 0.0 | 1993.8 |
| | % Fixture | 22.7 | 0.0 | 22.7 |
| Street Side | Lumens | 6790.1 | 0.0 | 6790.1 |
| | % Fixture | 77.3 | 0.0 | 77.3 |
| Total | Lumens | 8783.9 | 0.0 | 8783.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.8 | 1.1 |
| 10°-20° | 308.4 | 3.5 |
| 20°-30° | 531.8 | 6.1 |
| 30°-40° | 867.2 | 9.9 |
| 40°-50° | 1447.7 | 16.5 |
| 50°-60° | 1957.5 | 22.3 |
| 60°-70° | 2431.8 | 27.7 |
| 70°-80° | 973.8 | 11.1 |
| 80°-90° | 171.1 | 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° | 8783.9 | 100.0 |
| 0°-180° | 8783.9 | 100.0 |



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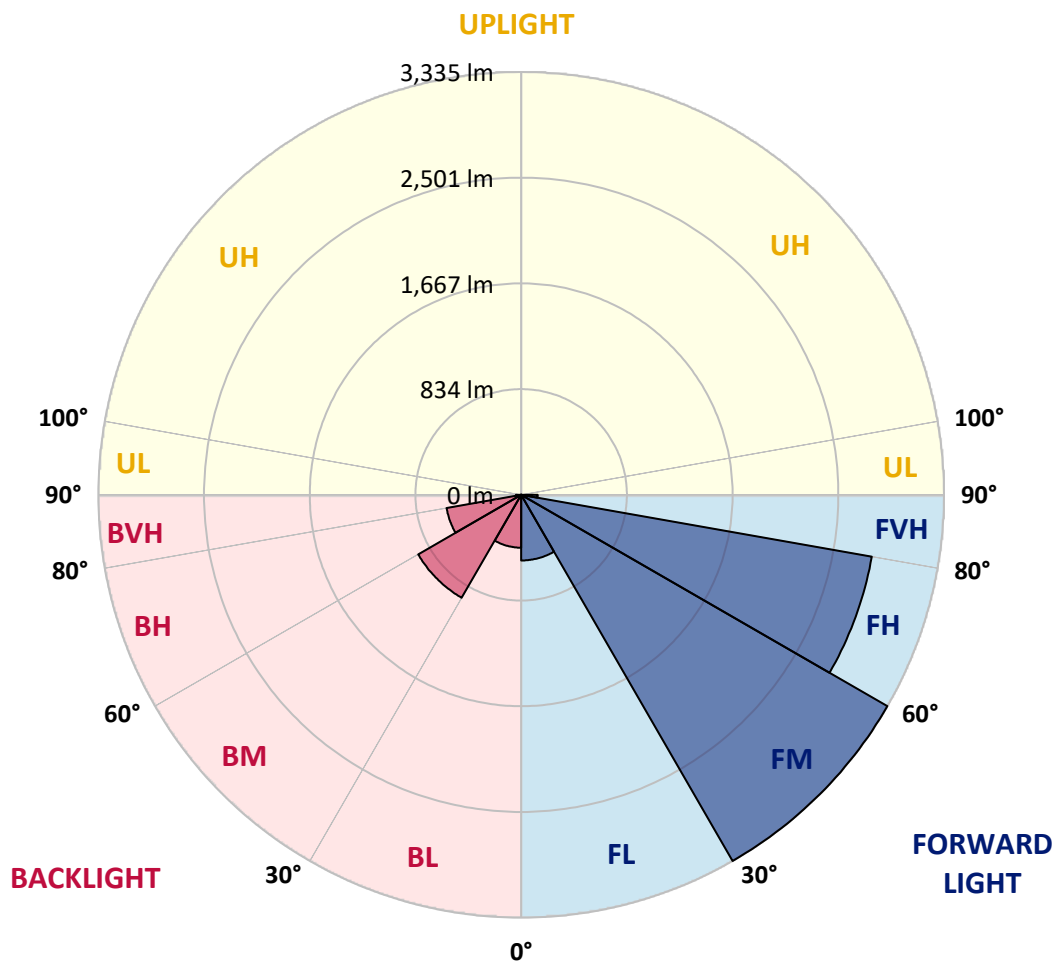
CATALOG NUMBER: OVH-E03-LED-E-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 518.0 | 5.9 | | | |
| FM (30°-60°) | 3334.5 | 38.0 | | | |
| FH (60°-80°) | 2807.8 | 32.0 | | | G2/5000 |
| FVH (80°-90°) | 129.8 | 1.5 | | | G2/225 |
| BL (0°-30°) | 417.0 | 4.7 | B1/500 | | |
| BM (30°-60°) | 937.8 | 10.7 | B1/1000 | | |
| BH (60°-80°) | 597.7 | 6.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 41.3 | 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° | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 |
| 2.5° | 961.8 | 961.2 | 964.2 | 966.6 | 966.6 | 967.8 | 967.2 | 963.6 | 964.2 | 965.4 | 964.2 |
| 5° | 972.6 | 970.2 | 973.2 | 976.8 | 979.2 | 982.2 | 985.2 | 985.8 | 988.2 | 988.2 | 987.6 |
| 7.5° | 996.0 | 994.2 | 998.4 | 999.6 | 1005.0 | 1009.8 | 1015.8 | 1020.0 | 1022.4 | 1023.6 | 1025.4 |
| 10° | 1036.2 | 1035.0 | 1036.2 | 1038.6 | 1041.0 | 1046.4 | 1056.6 | 1065.6 | 1071.0 | 1071.0 | 1073.4 |
| 12.5° | 1084.8 | 1080.0 | 1081.2 | 1076.4 | 1077.6 | 1089.0 | 1101.0 | 1116.0 | 1125.0 | 1126.2 | 1127.4 |
| 15° | 1122.6 | 1120.2 | 1118.4 | 1111.8 | 1116.6 | 1131.6 | 1150.2 | 1171.8 | 1179.6 | 1186.2 | 1185.6 |
| 17.5° | 1158.0 | 1155.0 | 1150.8 | 1141.8 | 1146.6 | 1170.6 | 1198.8 | 1222.8 | 1236.0 | 1237.2 | 1238.4 |
| 20° | 1200.0 | 1196.4 | 1188.6 | 1170.0 | 1168.8 | 1202.4 | 1240.2 | 1266.0 | 1278.0 | 1283.4 | 1285.2 |
| 22.5° | 1253.4 | 1248.6 | 1234.2 | 1198.2 | 1188.6 | 1228.2 | 1273.2 | 1305.0 | 1317.6 | 1323.0 | 1326.0 |
| 25° | 1321.8 | 1312.2 | 1289.4 | 1233.0 | 1213.2 | 1254.6 | 1308.6 | 1347.0 | 1364.4 | 1369.8 | 1373.4 |
| 27.5° | 1383.6 | 1376.4 | 1348.8 | 1282.2 | 1248.0 | 1290.0 | 1351.8 | 1401.0 | 1425.0 | 1431.6 | 1437.0 |
| 30° | 1455.6 | 1445.4 | 1423.2 | 1352.4 | 1306.8 | 1344.0 | 1422.6 | 1485.0 | 1514.4 | 1515.0 | 1527.0 |
| 32.5° | 1624.8 | 1618.2 | 1597.8 | 1519.8 | 1443.0 | 1445.4 | 1518.6 | 1604.4 | 1633.8 | 1638.6 | 1649.4 |
| 35° | 1875.6 | 1873.2 | 1872.6 | 1829.4 | 1772.4 | 1713.6 | 1719.0 | 1784.4 | 1804.2 | 1812.0 | 1815.6 |
| 37.5° | 2040.6 | 2061.6 | 2112.6 | 2143.8 | 2129.4 | 2142.0 | 2076.0 | 1996.2 | 1984.8 | 1976.4 | 1980.0 |
| 40° | 2182.8 | 2201.4 | 2304.6 | 2448.6 | 2536.2 | 2598.0 | 2539.8 | 2295.0 | 2203.8 | 2177.4 | 2167.2 |
| 42.5° | 2266.8 | 2287.8 | 2435.4 | 2665.8 | 2889.0 | 3035.4 | 3051.0 | 2710.8 | 2479.2 | 2476.2 | 2437.8 |
| 45° | 2312.4 | 2333.4 | 2509.8 | 2820.0 | 3135.6 | 3399.6 | 3536.4 | 3222.6 | 2882.4 | 2857.2 | 2803.8 |
| 47.5° | 2303.4 | 2323.2 | 2506.8 | 2877.0 | 3281.4 | 3641.4 | 3915.0 | 3739.8 | 3347.4 | 3286.8 | 3213.0 |
| 50° | 2193.6 | 2208.0 | 2400.6 | 2784.0 | 3242.4 | 3742.2 | 4174.2 | 4214.4 | 3873.6 | 3791.4 | 3681.0 |
| 52.5° | 2080.2 | 2106.0 | 2265.6 | 2619.0 | 3065.4 | 3679.8 | 4329.0 | 4646.4 | 4365.0 | 4308.6 | 4167.0 |
| 55° | 2019.0 | 2039.4 | 2169.6 | 2471.4 | 2878.8 | 3466.8 | 4393.2 | 5053.8 | 4962.0 | 4939.2 | 4839.0 |
| 57.5° | 2016.6 | 2036.4 | 2140.2 | 2382.0 | 2727.0 | 3244.8 | 4411.8 | 5683.2 | 5952.6 | 5958.6 | 5929.8 |
| 60° | 2115.0 | 2135.4 | 2222.4 | 2425.2 | 2680.2 | 3054.6 | 4345.2 | 6576.0 | 7171.2 | 7224.0 | 7312.2 |
| 62.5° | 2128.8 | 2138.4 | 2243.4 | 2517.0 | 2850.6 | 2912.4 | 4071.0 | 7319.4 | 8008.8 | 8057.4 | 8106.0 |
| 65° | 1904.4 | 1903.8 | 1996.8 | 2248.8 | 2815.2 | 2898.0 | 3658.8 | 7410.6 | 7975.2 | 8004.6 | 8065.2 |
| 67.5° | 1420.2 | 1408.2 | 1461.0 | 1691.4 | 2233.8 | 2901.6 | 3170.4 | 6722.4 | 7353.6 | 7409.4 | 7429.8 |
| 70° | 732.0 | 750.6 | 786.6 | 927.6 | 1418.4 | 2335.8 | 2723.4 | 5671.8 | 6455.4 | 6476.4 | 6549.0 |
| 72.5° | 300.6 | 292.8 | 317.4 | 390.0 | 709.8 | 1543.8 | 2253.0 | 4476.0 | 5331.6 | 5317.2 | 5330.4 |
| 75° | 167.4 | 169.8 | 177.0 | 203.4 | 345.0 | 775.2 | 1935.6 | 3168.6 | 3625.8 | 3377.4 | 3302.4 |
| 77.5° | 134.4 | 135.6 | 136.2 | 141.0 | 188.4 | 413.4 | 1485.6 | 2086.8 | 1823.4 | 1693.2 | 1643.4 |
| 80° | 98.4 | 105.0 | 112.2 | 113.4 | 129.6 | 234.6 | 814.8 | 1756.8 | 1539.0 | 1431.0 | 1342.2 |
| 82.5° | 79.2 | 82.2 | 97.8 | 100.2 | 103.2 | 139.8 | 369.0 | 1650.0 | 1533.0 | 1422.6 | 1300.2 |
| 85° | 47.4 | 52.8 | 79.8 | 80.4 | 81.6 | 85.2 | 204.0 | 672.0 | 835.8 | 738.6 | 676.2 |
| 87.5° | 16.8 | 21.6 | 39.6 | 33.0 | 42.0 | 34.8 | 89.4 | 225.0 | 277.2 | 263.4 | 233.4 |
| 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: OVH-E03-LED-E-U-SL2

CANDELA DISTRIBUTION (continued):

| | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 |
| 2.5° | 963.6 | 963.6 | 964.8 | 964.2 | 964.2 | 964.2 | 964.2 | 963.0 | 963.0 | 961.2 | 962.4 |
| 5° | 987.6 | 987.0 | 987.6 | 988.2 | 987.6 | 988.8 | 988.2 | 987.6 | 988.2 | 987.6 | 988.2 |
| 7.5° | 1026.0 | 1023.0 | 1027.2 | 1024.8 | 1024.2 | 1027.8 | 1026.0 | 1027.8 | 1028.4 | 1027.8 | 1027.2 |
| 10° | 1074.6 | 1076.4 | 1076.4 | 1076.4 | 1075.2 | 1078.8 | 1079.4 | 1080.6 | 1081.2 | 1083.6 | 1083.6 |
| 12.5° | 1130.4 | 1131.0 | 1133.4 | 1132.8 | 1134.0 | 1138.2 | 1141.2 | 1141.8 | 1142.4 | 1144.2 | 1141.8 |
| 15° | 1190.4 | 1191.6 | 1191.6 | 1197.0 | 1195.2 | 1201.2 | 1203.0 | 1203.0 | 1203.6 | 1210.8 | 1211.4 |
| 17.5° | 1243.8 | 1243.8 | 1248.6 | 1248.6 | 1253.4 | 1254.6 | 1260.0 | 1260.6 | 1263.0 | 1269.6 | 1270.2 |
| 20° | 1288.8 | 1291.2 | 1294.2 | 1297.8 | 1299.6 | 1303.2 | 1306.8 | 1310.4 | 1313.4 | 1318.8 | 1319.4 |
| 22.5° | 1331.4 | 1333.8 | 1338.6 | 1341.0 | 1345.2 | 1347.6 | 1350.6 | 1354.8 | 1359.6 | 1366.8 | 1368.6 |
| 25° | 1380.6 | 1383.0 | 1388.4 | 1392.0 | 1396.8 | 1400.4 | 1405.8 | 1411.2 | 1414.2 | 1421.4 | 1426.8 |
| 27.5° | 1443.0 | 1450.2 | 1457.4 | 1459.2 | 1462.8 | 1471.2 | 1478.4 | 1485.6 | 1492.2 | 1495.8 | 1502.4 |
| 30° | 1534.2 | 1534.2 | 1549.2 | 1549.2 | 1555.8 | 1563.6 | 1568.4 | 1576.2 | 1588.2 | 1591.8 | 1600.2 |
| 32.5° | 1656.6 | 1659.6 | 1665.0 | 1681.2 | 1693.2 | 1696.8 | 1700.4 | 1711.8 | 1719.0 | 1728.0 | 1738.2 |
| 35° | 1831.2 | 1834.2 | 1837.2 | 1852.8 | 1866.6 | 1870.2 | 1873.8 | 1881.0 | 1893.0 | 1908.6 | 1903.8 |
| 37.5° | 1987.8 | 1989.6 | 1999.2 | 2016.6 | 2024.4 | 2034.0 | 2037.0 | 2050.2 | 2056.8 | 2071.2 | 2071.8 |
| 40° | 2176.2 | 2172.0 | 2177.4 | 2197.2 | 2209.2 | 2208.6 | 2218.2 | 2242.2 | 2247.0 | 2253.6 | 2270.4 |
| 42.5° | 2439.0 | 2423.4 | 2440.2 | 2446.8 | 2464.8 | 2476.2 | 2495.4 | 2511.6 | 2523.0 | 2548.2 | 2560.2 |
| 45° | 2778.6 | 2762.4 | 2776.2 | 2779.2 | 2816.4 | 2827.8 | 2856.6 | 2878.2 | 2902.8 | 2931.6 | 2940.0 |
| 47.5° | 3165.6 | 3135.6 | 3118.8 | 3137.4 | 3181.8 | 3200.4 | 3228.6 | 3249.0 | 3274.8 | 3289.8 | 3285.0 |
| 50° | 3613.8 | 3541.8 | 3508.2 | 3498.6 | 3530.4 | 3556.8 | 3600.6 | 3610.2 | 3622.2 | 3621.6 | 3622.2 |
| 52.5° | 4113.6 | 4038.6 | 3968.4 | 3919.8 | 3915.0 | 3950.4 | 3961.2 | 3963.6 | 3960.0 | 3933.0 | 3916.2 |
| 55° | 4766.4 | 4761.0 | 4687.2 | 4586.4 | 4579.8 | 4575.6 | 4512.6 | 4504.8 | 4490.4 | 4449.0 | 4392.0 |
| 57.5° | 5950.8 | 6010.8 | 5962.2 | 5959.8 | 5907.0 | 5872.2 | 5756.4 | 5698.8 | 5638.2 | 5526.0 | 5436.6 |
| 60° | 7320.0 | 7407.0 | 7455.0 | 7476.0 | 7579.2 | 7579.2 | 7484.4 | 7402.8 | 7304.4 | 7133.4 | 6966.6 |
| 62.5° | 8144.4 | 8220.6 | 8291.4 | 8402.4 | 8533.8 | 8592.0 | 8596.8 | 8524.2 | 8400.0 | 8205.0 | 7969.2 |
| 65° | 8092.2 | 8148.6 | 8234.4 | 8365.2 | 8473.8 | 8578.2 | 8648.4 | 8626.2 | 8531.4 | 8336.4 | 8079.6 |
| 67.5° | 7501.2 | 7583.4 | 7694.4 | 7815.0 | 7915.8 | 8014.2 | 8127.6 | 8136.0 | 8110.8 | 7925.4 | 7693.2 |
| 70° | 6589.2 | 6694.8 | 6765.0 | 6916.8 | 6962.4 | 7062.0 | 7176.0 | 7230.6 | 7189.8 | 7047.0 | 6910.8 |
| 72.5° | 5353.2 | 5436.6 | 5448.6 | 5382.6 | 5405.4 | 5430.0 | 5457.6 | 5329.8 | 5280.6 | 5089.8 | 5002.2 |
| 75° | 3246.0 | 3136.2 | 3043.8 | 2952.0 | 2677.8 | 2580.6 | 2431.2 | 2136.6 | 2103.0 | 1900.8 | 1760.4 |
| 77.5° | 1543.8 | 1497.6 | 1414.2 | 1274.4 | 1088.4 | 910.2 | 755.4 | 613.8 | 561.0 | 462.0 | 393.6 |
| 80° | 1292.4 | 1237.2 | 1162.2 | 1058.4 | 928.2 | 798.6 | 676.2 | 571.2 | 465.6 | 379.2 | 303.0 |
| 82.5° | 1185.6 | 1089.6 | 984.0 | 894.6 | 802.8 | 714.6 | 632.4 | 537.6 | 481.8 | 388.8 | 317.4 |
| 85° | 599.4 | 525.0 | 425.4 | 358.2 | 302.4 | 246.0 | 213.0 | 181.8 | 162.0 | 129.0 | 112.2 |
| 87.5° | 201.0 | 164.4 | 122.4 | 103.8 | 93.6 | 80.4 | 73.8 | 70.2 | 68.4 | 60.6 | 54.0 |
| 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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CATALOG NUMBER: OVH-E03-LED-E-U-SL2

CANDELA DISTRIBUTION (continued):

| | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 91° | 92° | 93° | 94° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 |
| 2.5° | 962.4 | 962.4 | 962.4 | 962.4 | 961.8 | 961.8 | 961.8 | 961.8 | 961.8 | 961.8 | 962.4 |
| 5° | 987.0 | 987.0 | 987.6 | 989.4 | 985.8 | 987.0 | 988.2 | 986.4 | 988.2 | 986.4 | 988.8 |
| 7.5° | 1026.6 | 1028.4 | 1027.2 | 1029.6 | 1028.4 | 1032.0 | 1029.6 | 1027.8 | 1029.0 | 1029.0 | 1029.6 |
| 10° | 1082.4 | 1084.8 | 1083.0 | 1084.2 | 1084.2 | 1086.6 | 1083.6 | 1084.2 | 1084.8 | 1083.6 | 1084.2 |
| 12.5° | 1144.2 | 1145.4 | 1144.8 | 1148.4 | 1146.6 | 1148.4 | 1146.6 | 1149.0 | 1150.2 | 1151.4 | 1151.4 |
| 15° | 1211.4 | 1212.6 | 1216.2 | 1215.6 | 1219.2 | 1218.0 | 1218.6 | 1215.6 | 1221.6 | 1218.0 | 1219.2 |
| 17.5° | 1273.2 | 1272.6 | 1277.4 | 1279.2 | 1279.8 | 1280.4 | 1282.2 | 1279.8 | 1280.4 | 1282.2 | 1281.0 |
| 20° | 1321.2 | 1325.4 | 1326.6 | 1331.4 | 1335.0 | 1336.2 | 1335.6 | 1337.4 | 1339.8 | 1337.4 | 1337.4 |
| 22.5° | 1372.2 | 1378.2 | 1380.0 | 1383.0 | 1386.6 | 1387.2 | 1390.8 | 1392.6 | 1393.8 | 1393.2 | 1393.8 |
| 25° | 1433.4 | 1437.6 | 1441.8 | 1447.8 | 1452.0 | 1452.6 | 1455.6 | 1458.0 | 1458.6 | 1458.0 | 1461.6 |
| 27.5° | 1508.4 | 1513.8 | 1519.2 | 1526.4 | 1531.2 | 1532.4 | 1539.0 | 1539.0 | 1542.6 | 1544.4 | 1545.6 |
| 30° | 1605.0 | 1606.8 | 1620.6 | 1627.8 | 1626.0 | 1634.4 | 1643.4 | 1642.8 | 1647.0 | 1648.2 | 1651.2 |
| 32.5° | 1745.4 | 1745.4 | 1757.4 | 1766.4 | 1776.0 | 1773.0 | 1786.8 | 1784.4 | 1791.0 | 1794.6 | 1792.8 |
| 35° | 1915.8 | 1921.8 | 1930.8 | 1936.2 | 1946.4 | 1951.8 | 1961.4 | 1966.8 | 1969.8 | 1969.2 | 1962.6 |
| 37.5° | 2091.6 | 2101.2 | 2104.8 | 2118.0 | 2128.2 | 2137.2 | 2138.4 | 2132.4 | 2134.8 | 2122.8 | 2119.2 |
| 40° | 2292.6 | 2306.4 | 2314.8 | 2334.6 | 2333.4 | 2344.8 | 2346.0 | 2328.6 | 2325.6 | 2310.0 | 2293.8 |
| 42.5° | 2573.4 | 2592.6 | 2599.2 | 2614.2 | 2602.2 | 2607.6 | 2577.6 | 2570.4 | 2546.4 | 2521.2 | 2484.6 |
| 45° | 2952.0 | 2942.4 | 2946.6 | 2942.4 | 2910.6 | 2887.2 | 2862.6 | 2827.2 | 2791.8 | 2743.2 | 2691.0 |
| 47.5° | 3285.0 | 3289.8 | 3258.6 | 3238.8 | 3187.2 | 3154.2 | 3109.2 | 3047.4 | 3004.2 | 2938.8 | 2869.8 |
| 50° | 3608.4 | 3555.0 | 3511.2 | 3465.6 | 3420.0 | 3359.4 | 3291.6 | 3237.0 | 3174.0 | 3092.4 | 3007.8 |
| 52.5° | 3871.2 | 3802.2 | 3749.4 | 3684.6 | 3622.8 | 3555.6 | 3484.8 | 3405.6 | 3322.8 | 3241.2 | 3136.8 |
| 55° | 4336.8 | 4236.6 | 4168.8 | 4055.4 | 3985.2 | 3891.0 | 3835.8 | 3733.2 | 3618.0 | 3510.0 | 3399.0 |
| 57.5° | 5335.8 | 5185.8 | 5108.4 | 5044.2 | 4935.0 | 4780.2 | 4681.8 | 4513.2 | 4348.8 | 4233.6 | 4048.8 |
| 60° | 6840.6 | 6688.2 | 6559.8 | 6408.0 | 6240.6 | 6030.6 | 5937.0 | 5738.4 | 5503.2 | 5313.0 | 5068.8 |
| 62.5° | 7778.4 | 7567.8 | 7359.6 | 7146.6 | 6978.6 | 6814.2 | 6620.4 | 6420.0 | 6187.2 | 5928.6 | 5661.6 |
| 65° | 7816.2 | 7563.6 | 7314.6 | 7097.4 | 6900.6 | 6687.0 | 6505.2 | 6301.8 | 6057.0 | 5790.6 | 5513.4 |
| 67.5° | 7423.8 | 7141.2 | 6874.2 | 6636.0 | 6411.0 | 6213.0 | 6022.8 | 5831.4 | 5569.2 | 5346.0 | 5062.2 |
| 70° | 6642.0 | 6384.0 | 6142.2 | 5871.0 | 5698.8 | 5476.2 | 5290.8 | 5089.2 | 4901.4 | 4692.6 | 4426.8 |
| 72.5° | 4878.6 | 4684.2 | 4408.2 | 4293.0 | 4200.6 | 3964.8 | 3826.8 | 3810.0 | 3690.0 | 3439.8 | 3241.2 |
| 75° | 1814.4 | 1544.4 | 1462.8 | 1511.4 | 1430.4 | 1457.4 | 1447.2 | 1389.6 | 1392.0 | 1349.4 | 1299.0 |
| 77.5° | 355.2 | 330.0 | 310.2 | 315.6 | 293.4 | 283.8 | 304.2 | 298.2 | 287.4 | 290.4 | 285.6 |
| 80° | 241.8 | 204.6 | 185.4 | 178.2 | 169.2 | 165.0 | 163.8 | 162.0 | 158.4 | 156.6 | 151.2 |
| 82.5° | 238.2 | 177.0 | 139.8 | 120.0 | 112.8 | 109.2 | 106.2 | 105.6 | 104.4 | 103.8 | 105.6 |
| 85° | 94.8 | 76.8 | 70.2 | 64.2 | 62.4 | 60.6 | 60.6 | 60.0 | 59.4 | 60.6 | 63.0 |
| 87.5° | 46.2 | 39.0 | 35.4 | 32.4 | 31.2 | 30.6 | 30.6 | 31.2 | 31.8 | 34.2 | 39.0 |
| 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: P145060

CATALOG NUMBER: OVH-E03-LED-E-U-SL2

CANDELA DISTRIBUTION (continued):

| | 95° | 96° | 97° | 98° | 99° | 100° | 101° | 102° | 103° | 104° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 |
| 2.5° | 961.2 | 961.8 | 960.6 | 961.2 | 960.6 | 959.4 | 958.8 | 960.6 | 960.0 | 959.4 | 959.4 |
| 5° | 985.8 | 988.2 | 987.0 | 985.8 | 985.8 | 985.2 | 985.2 | 985.2 | 984.6 | 985.2 | 983.4 |
| 7.5° | 1028.4 | 1027.8 | 1027.8 | 1026.6 | 1025.4 | 1026.6 | 1026.0 | 1024.2 | 1024.8 | 1023.6 | 1021.8 |
| 10° | 1083.0 | 1081.2 | 1084.2 | 1084.2 | 1081.8 | 1081.2 | 1080.0 | 1078.2 | 1078.2 | 1076.4 | 1076.4 |
| 12.5° | 1147.8 | 1146.0 | 1150.2 | 1147.2 | 1143.6 | 1143.0 | 1139.4 | 1138.2 | 1140.0 | 1139.4 | 1138.2 |
| 15° | 1213.8 | 1214.4 | 1216.2 | 1215.6 | 1211.4 | 1211.4 | 1206.6 | 1207.2 | 1203.6 | 1202.4 | 1199.4 |
| 17.5° | 1278.0 | 1278.6 | 1276.8 | 1276.8 | 1273.8 | 1272.0 | 1266.6 | 1267.2 | 1264.8 | 1260.0 | 1256.4 |
| 20° | 1335.6 | 1335.0 | 1330.8 | 1334.4 | 1328.4 | 1327.2 | 1322.4 | 1317.6 | 1318.8 | 1314.0 | 1306.8 |
| 22.5° | 1392.0 | 1390.8 | 1389.6 | 1387.8 | 1384.8 | 1383.6 | 1378.2 | 1377.6 | 1371.6 | 1364.4 | 1358.4 |
| 25° | 1457.4 | 1456.8 | 1455.0 | 1455.6 | 1449.6 | 1450.2 | 1440.6 | 1438.2 | 1434.6 | 1426.8 | 1422.0 |
| 27.5° | 1542.0 | 1542.0 | 1537.2 | 1535.4 | 1533.6 | 1531.2 | 1522.8 | 1516.8 | 1507.8 | 1498.8 | 1489.2 |
| 30° | 1645.8 | 1644.6 | 1643.4 | 1638.6 | 1632.0 | 1628.4 | 1613.4 | 1603.8 | 1591.8 | 1575.0 | 1560.6 |
| 32.5° | 1794.0 | 1783.8 | 1775.4 | 1764.6 | 1753.8 | 1742.4 | 1719.0 | 1702.8 | 1683.6 | 1656.6 | 1633.8 |
| 35° | 1959.0 | 1941.6 | 1932.6 | 1910.4 | 1890.0 | 1867.2 | 1839.0 | 1806.0 | 1779.6 | 1744.2 | 1707.0 |
| 37.5° | 2095.2 | 2082.0 | 2058.0 | 2032.8 | 2004.0 | 1960.8 | 1929.0 | 1893.6 | 1847.4 | 1808.4 | 1763.4 |
| 40° | 2263.2 | 2233.2 | 2199.0 | 2157.0 | 2117.4 | 2068.8 | 2025.0 | 1974.0 | 1917.6 | 1861.2 | 1802.4 |
| 42.5° | 2439.6 | 2393.4 | 2337.0 | 2288.4 | 2228.4 | 2164.8 | 2107.8 | 2038.8 | 1966.8 | 1891.2 | 1812.6 |
| 45° | 2619.6 | 2562.6 | 2487.6 | 2418.6 | 2335.2 | 2255.4 | 2173.8 | 2079.6 | 1981.2 | 1880.4 | 1781.4 |
| 47.5° | 2784.6 | 2701.2 | 2616.0 | 2523.0 | 2427.0 | 2324.4 | 2208.6 | 2085.0 | 1955.4 | 1822.8 | 1699.2 |
| 50° | 2914.2 | 2809.8 | 2702.4 | 2595.0 | 2477.4 | 2344.2 | 2198.4 | 2037.0 | 1877.4 | 1718.4 | 1576.2 |
| 52.5° | 3028.8 | 2911.8 | 2779.8 | 2646.6 | 2501.4 | 2337.6 | 2155.2 | 1965.0 | 1770.6 | 1594.8 | 1435.2 |
| 55° | 3250.8 | 3103.8 | 2929.8 | 2758.2 | 2574.6 | 2368.2 | 2140.8 | 1908.0 | 1684.2 | 1492.8 | 1323.0 |
| 57.5° | 3853.8 | 3655.2 | 3385.8 | 3147.6 | 2914.8 | 2614.2 | 2293.8 | 2007.0 | 1722.0 | 1495.8 | 1306.8 |
| 60° | 4803.6 | 4480.2 | 4171.8 | 3808.8 | 3432.0 | 3019.8 | 2590.2 | 2203.8 | 1856.4 | 1572.6 | 1345.2 |
| 62.5° | 5354.4 | 5013.0 | 4616.4 | 4176.6 | 3688.2 | 3186.0 | 2692.8 | 2241.6 | 1860.6 | 1551.6 | 1299.6 |
| 65° | 5205.6 | 4862.4 | 4426.2 | 3976.2 | 3456.6 | 2943.0 | 2453.4 | 2020.2 | 1650.6 | 1365.0 | 1123.8 |
| 67.5° | 4764.0 | 4405.2 | 3995.4 | 3496.2 | 2999.4 | 2523.6 | 2077.2 | 1669.2 | 1342.2 | 1075.8 | 862.8 |
| 70° | 4121.4 | 3802.2 | 3407.4 | 2947.2 | 2465.4 | 2037.6 | 1661.4 | 1293.6 | 1017.0 | 772.8 | 604.8 |
| 72.5° | 3058.8 | 2776.2 | 2529.6 | 2145.0 | 1792.2 | 1456.8 | 1150.2 | 900.0 | 661.8 | 500.4 | 385.2 |
| 75° | 1284.0 | 1188.6 | 1148.4 | 1007.4 | 876.0 | 718.2 | 540.6 | 430.8 | 349.2 | 297.0 | 235.8 |
| 77.5° | 311.4 | 311.4 | 292.8 | 274.2 | 252.0 | 228.0 | 201.6 | 180.0 | 169.2 | 159.6 | 151.8 |
| 80° | 151.2 | 150.0 | 145.2 | 144.6 | 140.4 | 135.0 | 132.0 | 127.8 | 126.0 | 123.6 | 122.4 |
| 82.5° | 106.2 | 105.6 | 103.8 | 106.2 | 105.6 | 108.0 | 109.2 | 109.8 | 109.8 | 110.4 | 111.0 |
| 85° | 67.2 | 69.6 | 74.4 | 80.4 | 85.8 | 92.4 | 98.4 | 103.2 | 106.8 | 109.8 | 112.2 |
| 87.5° | 42.6 | 48.6 | 52.2 | 61.2 | 70.2 | 80.4 | 91.8 | 96.6 | 100.8 | 101.4 | 97.8 |
| 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: P145060

CATALOG NUMBER: OVH-E03-LED-E-U-SL2

CANDELA DISTRIBUTION (continued):

| | 106° | 107° | 108° | 109° | 110° | 115° | 125° | 135° | 145° | 155° | 165° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0° | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 | 954.6 |
| 2.5° | 959.4 | 958.8 | 960.0 | 958.8 | 958.8 | 958.2 | 956.4 | 954.6 | 952.8 | 952.2 | 950.4 |
| 5° | 982.8 | 982.8 | 984.0 | 981.6 | 982.2 | 979.8 | 974.4 | 968.4 | 963.0 | 958.2 | 952.8 |
| 7.5° | 1022.4 | 1020.6 | 1021.2 | 1020.6 | 1019.4 | 1014.6 | 1002.6 | 987.6 | 973.2 | 958.2 | 946.2 |
| 10° | 1075.2 | 1071.6 | 1071.6 | 1070.4 | 1068.6 | 1062.0 | 1036.8 | 1006.8 | 976.8 | 949.8 | 930.0 |
| 12.5° | 1134.0 | 1134.6 | 1129.8 | 1126.8 | 1123.8 | 1110.0 | 1072.2 | 1024.2 | 976.8 | 933.6 | 901.8 |
| 15° | 1195.2 | 1194.6 | 1189.2 | 1187.4 | 1180.8 | 1160.4 | 1103.4 | 1033.2 | 965.4 | 901.8 | 854.4 |
| 17.5° | 1250.4 | 1248.0 | 1242.6 | 1239.0 | 1231.8 | 1204.8 | 1124.4 | 1029.0 | 935.4 | 852.0 | 792.6 |
| 20° | 1300.8 | 1297.8 | 1293.0 | 1286.4 | 1279.2 | 1240.2 | 1132.2 | 1007.4 | 888.0 | 792.6 | 732.6 |
| 22.5° | 1353.0 | 1346.4 | 1341.0 | 1332.0 | 1324.2 | 1272.0 | 1126.8 | 969.0 | 834.0 | 726.6 | 662.4 |
| 25° | 1411.2 | 1403.4 | 1392.0 | 1381.2 | 1369.2 | 1297.8 | 1111.8 | 921.0 | 769.2 | 655.2 | 590.4 |
| 27.5° | 1474.2 | 1462.8 | 1447.8 | 1434.0 | 1414.8 | 1317.0 | 1086.0 | 867.6 | 698.4 | 584.4 | 517.2 |
| 30° | 1540.8 | 1519.8 | 1501.2 | 1480.2 | 1455.6 | 1326.0 | 1048.8 | 801.6 | 620.4 | 512.4 | 445.2 |
| 32.5° | 1605.6 | 1577.4 | 1549.8 | 1519.2 | 1485.6 | 1322.4 | 996.0 | 723.6 | 542.4 | 445.2 | 388.8 |
| 35° | 1671.6 | 1630.8 | 1592.4 | 1551.0 | 1510.2 | 1304.4 | 923.4 | 637.2 | 468.6 | 389.4 | 348.6 |
| 37.5° | 1716.6 | 1665.6 | 1614.6 | 1564.8 | 1515.6 | 1265.4 | 826.8 | 540.6 | 402.0 | 349.2 | 319.8 |
| 40° | 1739.4 | 1677.0 | 1614.6 | 1552.8 | 1492.2 | 1200.6 | 714.0 | 452.4 | 354.6 | 319.2 | 298.2 |
| 42.5° | 1732.8 | 1655.4 | 1578.0 | 1504.8 | 1430.4 | 1097.4 | 591.6 | 379.8 | 321.6 | 295.8 | 277.2 |
| 45° | 1678.2 | 1585.8 | 1497.6 | 1420.2 | 1327.2 | 964.8 | 486.0 | 334.8 | 296.4 | 276.6 | 259.2 |
| 47.5° | 1575.6 | 1472.4 | 1364.4 | 1276.8 | 1189.8 | 811.2 | 404.4 | 306.6 | 274.2 | 258.0 | 240.6 |
| 50° | 1444.8 | 1325.4 | 1217.4 | 1122.6 | 1037.4 | 667.8 | 348.6 | 282.6 | 256.2 | 242.4 | 223.8 |
| 52.5° | 1300.8 | 1172.4 | 1074.0 | 974.4 | 891.0 | 557.4 | 309.6 | 256.2 | 238.8 | 224.4 | 209.4 |
| 55° | 1181.4 | 1062.6 | 962.4 | 862.2 | 778.2 | 487.8 | 277.2 | 235.8 | 222.6 | 207.6 | 195.6 |
| 57.5° | 1149.6 | 1014.0 | 904.8 | 810.0 | 723.6 | 445.2 | 253.8 | 217.2 | 208.2 | 196.8 | 183.6 |
| 60° | 1162.8 | 1013.4 | 891.0 | 787.2 | 696.6 | 411.0 | 236.4 | 204.6 | 197.4 | 187.2 | 173.4 |
| 62.5° | 1115.4 | 957.6 | 834.0 | 723.6 | 637.8 | 367.8 | 223.8 | 198.6 | 193.8 | 180.0 | 164.4 |
| 65° | 950.4 | 805.8 | 687.0 | 591.6 | 517.8 | 309.6 | 213.6 | 204.0 | 199.2 | 175.2 | 158.4 |
| 67.5° | 723.6 | 603.0 | 507.6 | 436.2 | 382.8 | 256.2 | 211.2 | 222.0 | 212.4 | 177.6 | 156.6 |
| 70° | 500.4 | 409.2 | 348.0 | 304.8 | 271.2 | 216.0 | 219.0 | 241.8 | 228.0 | 185.4 | 166.8 |
| 72.5° | 317.4 | 265.2 | 235.2 | 219.0 | 202.8 | 182.4 | 217.2 | 239.4 | 220.8 | 186.6 | 166.8 |
| 75° | 203.4 | 181.8 | 171.6 | 165.6 | 160.8 | 159.0 | 191.4 | 196.8 | 177.6 | 162.0 | 155.4 |
| 77.5° | 144.0 | 140.4 | 138.6 | 138.0 | 138.6 | 142.8 | 158.4 | 148.2 | 129.0 | 129.6 | 133.2 |
| 80° | 121.8 | 121.8 | 120.6 | 121.2 | 122.4 | 124.2 | 126.6 | 109.2 | 99.0 | 106.8 | 118.8 |
| 82.5° | 111.6 | 113.4 | 114.6 | 115.8 | 117.6 | 115.2 | 107.4 | 82.8 | 79.8 | 103.8 | 116.4 |
| 85° | 113.4 | 113.4 | 114.0 | 115.2 | 115.8 | 103.8 | 89.4 | 62.4 | 61.2 | 116.4 | 109.8 |
| 87.5° | 97.2 | 96.0 | 91.8 | 88.8 | 84.6 | 71.4 | 59.4 | 34.8 | 36.0 | 72.0 | 76.8 |
| 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: P145060

CATALOG NUMBER: OVH-E03-LED-E-U-SL2

CANDELA DISTRIBUTION (continued):

| | 175° | 180° |
|-------|-------|-------|
| 0° | 954.6 | 954.6 |
| 2.5° | 949.8 | 949.8 |
| 5° | 949.8 | 949.8 |
| 7.5° | 942.0 | 939.6 |
| 10° | 919.2 | 916.2 |
| 12.5° | 884.4 | 881.4 |
| 15° | 831.0 | 827.4 |
| 17.5° | 764.4 | 758.4 |
| 20° | 694.8 | 686.4 |
| 22.5° | 625.2 | 618.6 |
| 25° | 553.8 | 547.8 |
| 27.5° | 483.6 | 477.6 |
| 30° | 418.8 | 416.4 |
| 32.5° | 370.8 | 368.4 |
| 35° | 335.4 | 334.2 |
| 37.5° | 311.4 | 310.2 |
| 40° | 290.4 | 289.2 |
| 42.5° | 271.2 | 269.4 |
| 45° | 252.0 | 252.6 |
| 47.5° | 232.8 | 232.2 |
| 50° | 216.0 | 216.0 |
| 52.5° | 202.2 | 201.6 |
| 55° | 189.6 | 189.0 |
| 57.5° | 177.0 | 176.4 |
| 60° | 166.2 | 164.4 |
| 62.5° | 156.0 | 154.8 |
| 65° | 149.4 | 148.8 |
| 67.5° | 144.6 | 142.8 |
| 70° | 143.4 | 138.6 |
| 72.5° | 139.8 | 133.8 |
| 75° | 131.4 | 128.4 |
| 77.5° | 115.8 | 112.2 |
| 80° | 89.4 | 82.8 |
| 82.5° | 75.0 | 64.8 |
| 85° | 55.2 | 51.0 |
| 87.5° | 40.2 | 31.8 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)