

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: P143855

Luminaire Tested: **OVH-F02-LED-E-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P143855  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33697)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: OVH-F02-LED-E-U-5MQ  
Description: OVH LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (14) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5130.9 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 55  
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

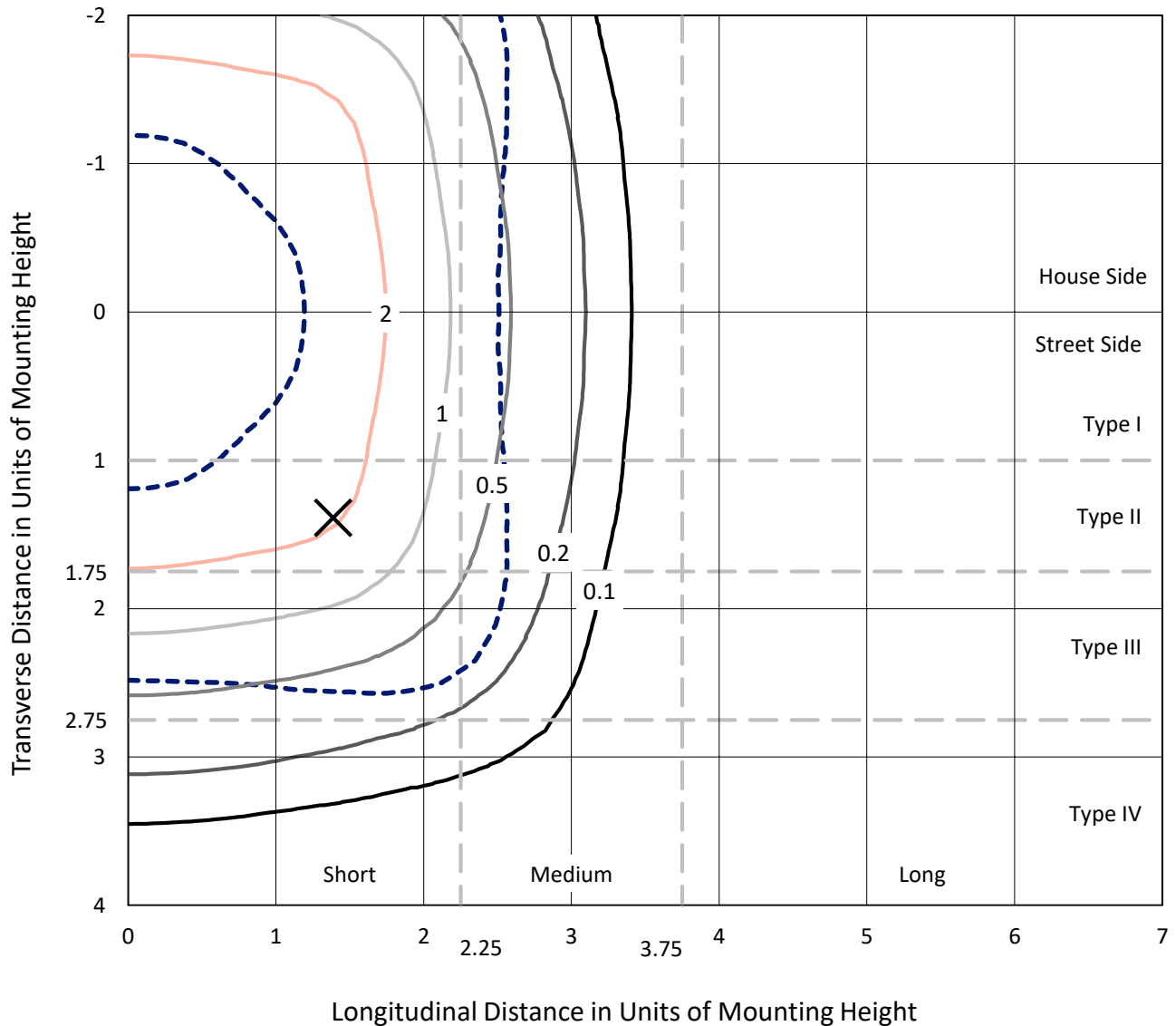


REPORT NUMBER: P143855

CATALOG NUMBER: OVH-F02-LED-E-U-5MQ

### Iso-Footcandle Lines of Horizontal Illumination

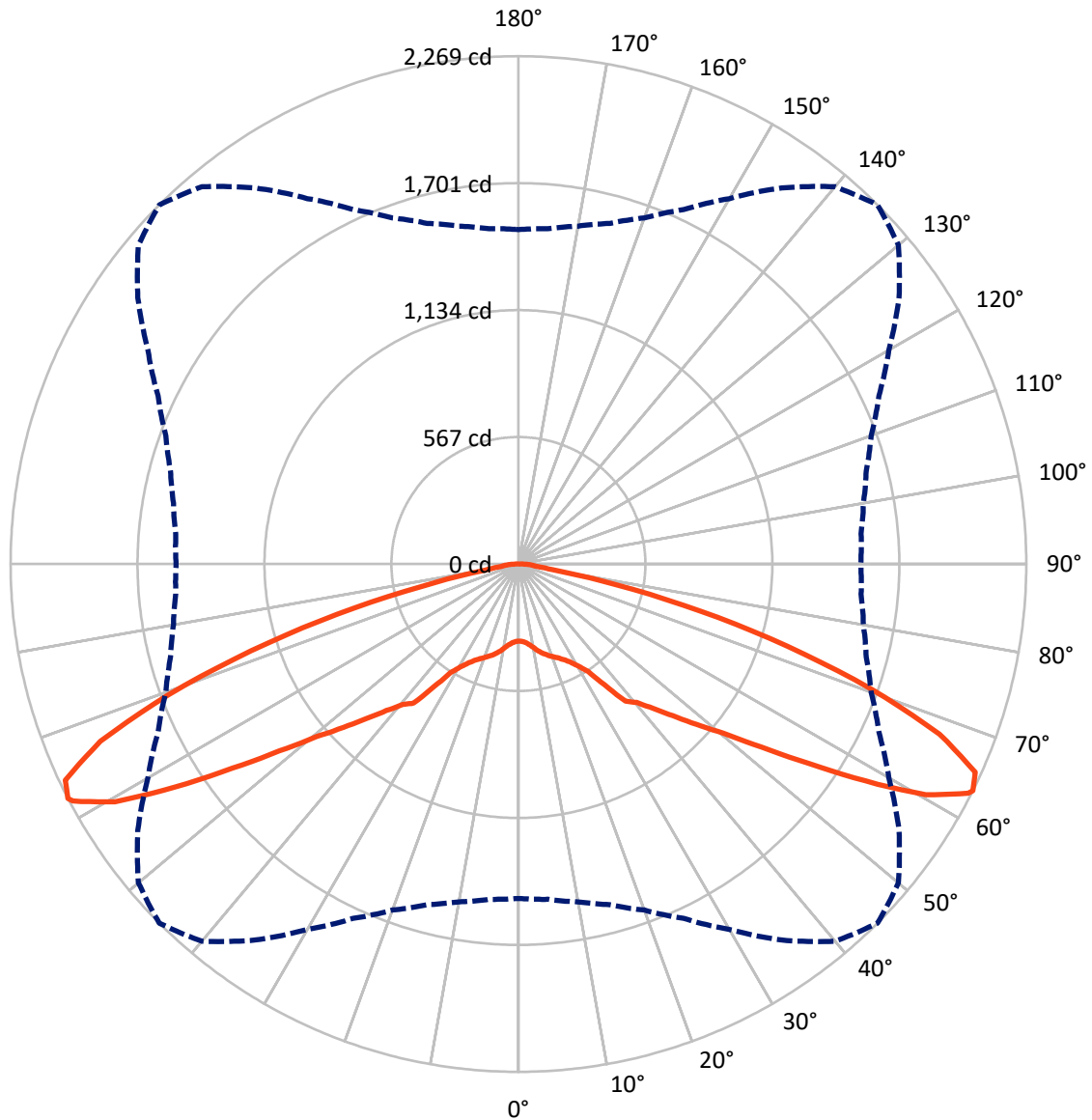
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P143855  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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CATALOG NUMBER: OVH-F02-LED-E-U-5MQ

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2565.5   | 0.0    | 2565.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2565.5   | 0.0    | 2565.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5130.9   | 0.0    | 5130.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 34.7   | 0.7       |
| 10°-20°   | 118.5  | 2.3       |
| 20°-30°   | 226.3  | 4.4       |
| 30°-40°   | 431.0  | 8.4       |
| 40°-50°   | 742.2  | 14.5      |
| 50°-60°   | 1326.3 | 25.8      |
| 60°-70°   | 1615.5 | 31.5      |
| 70°-80°   | 575.5  | 11.2      |
| 80°-90°   | 61.0   | 1.2       |
| 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°    | 5130.9 | 100.0     |
| 0°-180°   | 5130.9 | 100.0     |



REPORT NUMBER: P143855

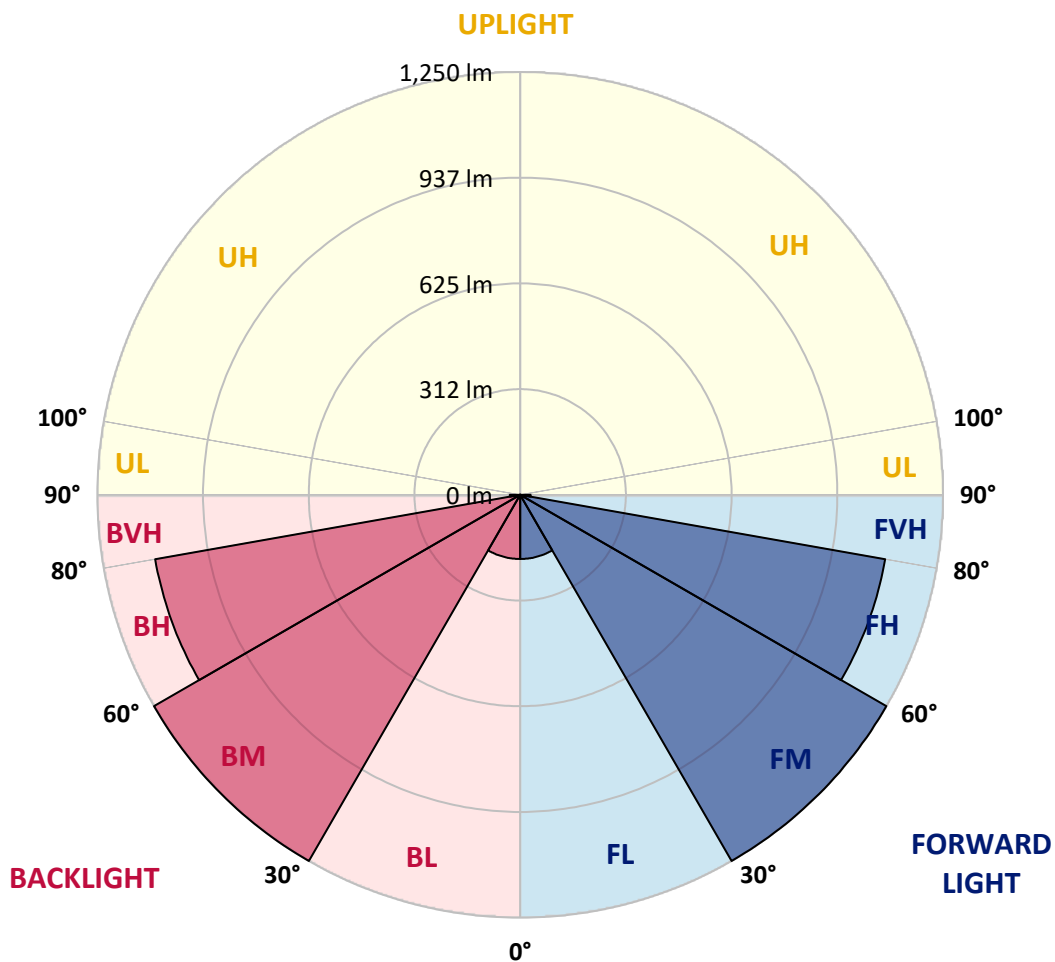
CATALOG NUMBER: OVH-F02-LED-E-U-5MQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 189.7  | 3.7       |                         |      |         |
| FM (30°-60°)   | 1249.8 | 24.4      |                         |      |         |
| FH (60°-80°)   | 1095.5 | 21.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 30.5   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 189.7  | 3.7       | B1/500                  |      |         |
| BM (30°-60°)   | 1249.8 | 24.4      | B2/2500                 |      |         |
| BH (60°-80°)   | 1095.5 | 21.4      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 30.5   | 0.6       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





REPORT NUMBER: P143855

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 344.4  | 344.4  | 344.4  | 344.4  | 344.4  | 344.4  | 344.4  | 344.4  | 344.4  | 344.4  | 344.4  |
| 2.5°  | 347.1  | 346.7  | 347.1  | 346.4  | 346.4  | 346.1  | 346.1  | 346.1  | 345.4  | 346.1  | 345.4  |
| 5°    | 354.3  | 354.0  | 354.3  | 353.7  | 353.7  | 353.0  | 353.0  | 353.0  | 352.3  | 353.0  | 352.7  |
| 7.5°  | 366.9  | 367.5  | 366.9  | 366.2  | 366.2  | 365.5  | 365.2  | 365.2  | 364.9  | 364.6  | 365.2  |
| 10°   | 384.4  | 385.0  | 384.0  | 383.4  | 383.0  | 382.7  | 382.1  | 381.7  | 381.7  | 380.4  | 380.7  |
| 12.5° | 402.9  | 402.9  | 401.9  | 401.5  | 401.5  | 400.9  | 399.6  | 399.2  | 399.2  | 398.6  | 397.9  |
| 15°   | 419.4  | 419.4  | 418.7  | 417.4  | 417.7  | 416.7  | 415.7  | 415.1  | 415.1  | 414.4  | 413.8  |
| 17.5° | 434.6  | 434.6  | 433.6  | 432.2  | 431.6  | 431.3  | 429.9  | 429.3  | 429.3  | 428.6  | 428.0  |
| 20°   | 449.7  | 450.4  | 448.8  | 447.4  | 446.1  | 444.8  | 443.5  | 442.8  | 441.8  | 442.2  | 441.8  |
| 22.5° | 467.9  | 468.2  | 465.6  | 463.9  | 461.3  | 459.7  | 457.7  | 457.0  | 455.7  | 455.7  | 456.4  |
| 25°   | 491.0  | 490.7  | 487.7  | 484.7  | 481.8  | 478.5  | 475.5  | 474.8  | 473.5  | 473.2  | 473.5  |
| 27.5° | 521.4  | 521.1  | 517.4  | 513.5  | 509.5  | 504.6  | 500.9  | 498.9  | 498.0  | 496.6  | 497.3  |
| 30°   | 558.7  | 559.4  | 555.1  | 550.5  | 545.5  | 539.6  | 534.9  | 532.3  | 530.3  | 529.0  | 529.7  |
| 32.5° | 634.7  | 634.0  | 627.4  | 617.5  | 606.9  | 593.1  | 581.8  | 577.2  | 573.6  | 572.3  | 573.2  |
| 35°   | 710.9  | 710.3  | 707.6  | 704.7  | 702.0  | 693.1  | 684.9  | 675.3  | 667.4  | 662.4  | 663.7  |
| 37.5° | 746.9  | 746.9  | 745.0  | 744.3  | 744.3  | 749.6  | 756.2  | 768.1  | 777.3  | 778.0  | 775.0  |
| 40°   | 803.1  | 803.1  | 799.8  | 798.1  | 797.1  | 798.8  | 803.1  | 807.4  | 812.0  | 813.0  | 809.7  |
| 42.5° | 869.1  | 866.1  | 863.8  | 860.5  | 860.2  | 861.8  | 866.5  | 871.8  | 876.4  | 880.3  | 873.4  |
| 45°   | 940.4  | 937.8  | 935.5  | 933.5  | 934.8  | 939.1  | 945.4  | 954.6  | 961.2  | 967.2  | 961.6  |
| 47.5° | 1020.0 | 1014.4 | 1016.7 | 1014.7 | 1018.0 | 1026.6 | 1037.8 | 1051.7 | 1058.7 | 1069.2 | 1060.3 |
| 50°   | 1119.1 | 1120.4 | 1119.1 | 1119.1 | 1123.0 | 1134.3 | 1150.8 | 1169.6 | 1181.5 | 1187.4 | 1182.2 |
| 52.5° | 1266.4 | 1262.4 | 1253.5 | 1256.1 | 1261.4 | 1279.2 | 1300.7 | 1327.1 | 1342.3 | 1356.5 | 1340.0 |
| 55°   | 1427.5 | 1428.2 | 1426.8 | 1430.5 | 1440.7 | 1458.9 | 1485.9 | 1525.9 | 1545.1 | 1569.8 | 1550.0 |
| 57.5° | 1560.9 | 1565.5 | 1573.5 | 1584.3 | 1606.5 | 1636.9 | 1690.0 | 1751.1 | 1802.0 | 1828.7 | 1797.7 |
| 60°   | 1604.2 | 1608.8 | 1627.9 | 1658.3 | 1699.9 | 1762.0 | 1848.2 | 1952.9 | 2044.3 | 2091.9 | 2051.3 |
| 62.5° | 1520.9 | 1529.5 | 1557.9 | 1599.9 | 1668.6 | 1765.6 | 1893.8 | 2048.6 | 2189.6 | 2254.7 | 2205.5 |
| 63°   | 1493.9 | 1503.4 | 1532.5 | 1575.1 | 1645.1 | 1746.5 | 1884.8 | 2050.6 | 2199.9 | 2268.5 | 2215.4 |
| 65°   | 1373.7 | 1379.9 | 1410.7 | 1459.2 | 1537.1 | 1642.8 | 1796.7 | 1992.8 | 2162.9 | 2242.5 | 2186.0 |
| 67.5° | 1184.5 | 1192.7 | 1220.8 | 1262.7 | 1338.3 | 1450.3 | 1601.5 | 1797.0 | 1964.4 | 2028.1 | 1979.9 |
| 70°   | 950.0  | 959.3  | 982.4  | 1021.3 | 1080.8 | 1184.5 | 1313.9 | 1496.5 | 1622.3 | 1672.2 | 1620.7 |
| 72.5° | 667.7  | 671.6  | 688.5  | 729.4  | 774.0  | 856.6  | 959.3  | 1101.3 | 1222.1 | 1254.8 | 1205.3 |
| 75°   | 282.7  | 283.0  | 305.1  | 331.2  | 387.0  | 469.2  | 558.7  | 680.9  | 789.5  | 840.4  | 777.6  |
| 77.5° | 90.5   | 91.5   | 97.7   | 107.3  | 125.8  | 162.5  | 228.5  | 295.5  | 395.3  | 443.5  | 384.7  |
| 80°   | 75.6   | 76.9   | 79.6   | 81.6   | 82.9   | 84.9   | 92.5   | 103.0  | 129.8  | 150.9  | 121.8  |
| 82.5° | 65.1   | 67.4   | 73.3   | 75.6   | 76.9   | 77.6   | 78.6   | 78.3   | 76.6   | 75.9   | 76.3   |
| 85°   | 49.5   | 55.1   | 61.7   | 67.0   | 67.7   | 68.0   | 70.0   | 70.7   | 65.4   | 60.1   | 65.4   |
| 87.5° | 21.5   | 27.7   | 42.6   | 47.2   | 46.2   | 42.9   | 45.9   | 48.5   | 44.2   | 32.4   | 43.3   |
| 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: P143855

CATALOG NUMBER: OVH-F02-LED-E-U-5MQ

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 344.4  | 344.4  | 344.4  | 344.4  | 344.4  | 344.4  | 344.4  | 344.4  |
| 2.5°  | 345.7  | 346.4  | 346.4  | 346.4  | 346.4  | 346.7  | 347.1  | 346.7  |
| 5°    | 353.0  | 353.7  | 353.3  | 353.7  | 353.7  | 354.0  | 354.3  | 354.0  |
| 7.5°  | 365.5  | 365.5  | 365.5  | 366.2  | 366.2  | 366.9  | 366.9  | 366.9  |
| 10°   | 381.1  | 380.7  | 380.7  | 381.4  | 382.1  | 382.4  | 383.0  | 382.7  |
| 12.5° | 397.9  | 397.2  | 397.6  | 398.2  | 398.9  | 399.2  | 399.9  | 399.6  |
| 15°   | 413.1  | 412.8  | 412.8  | 413.8  | 414.1  | 414.4  | 415.7  | 415.7  |
| 17.5° | 427.6  | 427.6  | 427.6  | 428.9  | 429.3  | 430.6  | 431.6  | 431.6  |
| 20°   | 442.2  | 442.2  | 442.2  | 443.5  | 444.5  | 446.4  | 448.4  | 448.1  |
| 22.5° | 457.0  | 457.3  | 458.0  | 459.3  | 461.6  | 464.6  | 466.3  | 466.3  |
| 25°   | 475.5  | 476.8  | 478.1  | 480.1  | 483.4  | 487.4  | 490.0  | 491.0  |
| 27.5° | 499.3  | 502.2  | 505.6  | 508.5  | 512.2  | 517.1  | 520.7  | 521.4  |
| 30°   | 531.6  | 535.9  | 541.2  | 545.2  | 549.8  | 555.4  | 559.7  | 562.0  |
| 32.5° | 577.5  | 588.1  | 595.0  | 609.2  | 617.8  | 627.4  | 635.3  | 638.6  |
| 35°   | 672.0  | 682.5  | 691.8  | 701.4  | 703.3  | 706.6  | 710.9  | 711.9  |
| 37.5° | 765.4  | 756.8  | 748.6  | 748.3  | 745.9  | 746.6  | 747.9  | 749.6  |
| 40°   | 806.0  | 803.4  | 799.1  | 800.8  | 801.1  | 801.1  | 803.7  | 804.1  |
| 42.5° | 871.4  | 865.2  | 860.2  | 864.2  | 864.8  | 865.5  | 868.1  | 871.1  |
| 45°   | 954.6  | 945.1  | 938.8  | 936.5  | 938.8  | 938.1  | 941.8  | 942.4  |
| 47.5° | 1049.7 | 1037.2 | 1023.0 | 1018.4 | 1017.0 | 1014.1 | 1020.3 | 1019.7 |
| 50°   | 1166.3 | 1146.2 | 1129.0 | 1122.4 | 1119.1 | 1117.4 | 1119.1 | 1119.1 |
| 52.5° | 1313.9 | 1293.8 | 1270.3 | 1262.7 | 1260.1 | 1263.7 | 1258.4 | 1264.0 |
| 55°   | 1517.0 | 1484.3 | 1452.3 | 1442.0 | 1440.4 | 1438.7 | 1439.4 | 1441.7 |
| 57.5° | 1745.5 | 1687.4 | 1644.4 | 1619.3 | 1603.2 | 1595.2 | 1586.7 | 1585.3 |
| 60°   | 1966.1 | 1860.4 | 1778.8 | 1723.4 | 1684.1 | 1654.4 | 1639.2 | 1633.9 |
| 62.5° | 2072.4 | 1917.9 | 1791.1 | 1696.6 | 1638.2 | 1589.6 | 1562.9 | 1555.9 |
| 63°   | 2075.4 | 1910.6 | 1776.2 | 1676.5 | 1608.5 | 1564.9 | 1536.5 | 1529.2 |
| 65°   | 2020.2 | 1832.7 | 1675.2 | 1565.5 | 1493.5 | 1448.0 | 1413.0 | 1405.4 |
| 67.5° | 1819.5 | 1637.5 | 1476.4 | 1365.1 | 1287.2 | 1250.5 | 1211.9 | 1210.9 |
| 70°   | 1493.2 | 1330.7 | 1195.0 | 1092.7 | 1027.6 | 991.3  | 952.0  | 953.0  |
| 72.5° | 1091.7 | 947.4  | 853.9  | 774.0  | 705.3  | 671.0  | 634.0  | 637.6  |
| 75°   | 657.1  | 528.3  | 444.1  | 374.8  | 304.1  | 261.9  | 233.5  | 217.3  |
| 77.5° | 281.0  | 192.2  | 138.0  | 109.6  | 92.5   | 85.5   | 82.2   | 81.2   |
| 80°   | 97.7   | 86.5   | 81.6   | 80.2   | 79.3   | 77.9   | 75.6   | 73.3   |
| 82.5° | 79.3   | 79.3   | 76.6   | 76.3   | 73.3   | 71.0   | 65.1   | 62.1   |
| 85°   | 70.3   | 69.0   | 66.7   | 65.7   | 65.1   | 60.1   | 52.5   | 48.5   |
| 87.5° | 46.6   | 43.3   | 41.3   | 42.3   | 40.9   | 36.7   | 22.5   | 17.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)