

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: P144162

Luminaire Tested: **OVH-E03-LED-E-U-5WQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144162
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33698)
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-5WQ-7060
Description: OVH LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (63) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9436.8 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

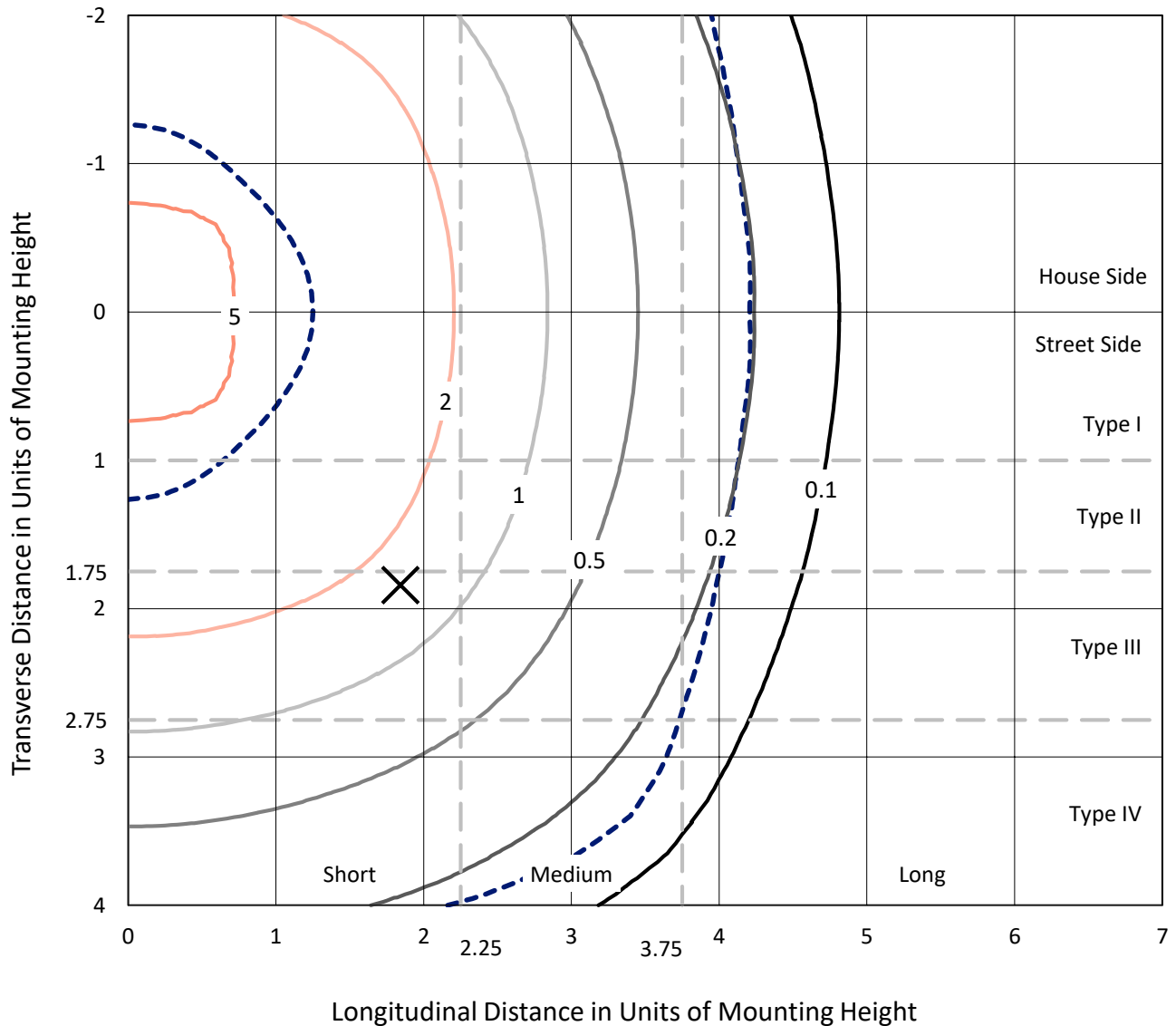
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P144162
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Iso-Footcandle Lines of Horizontal Illumination

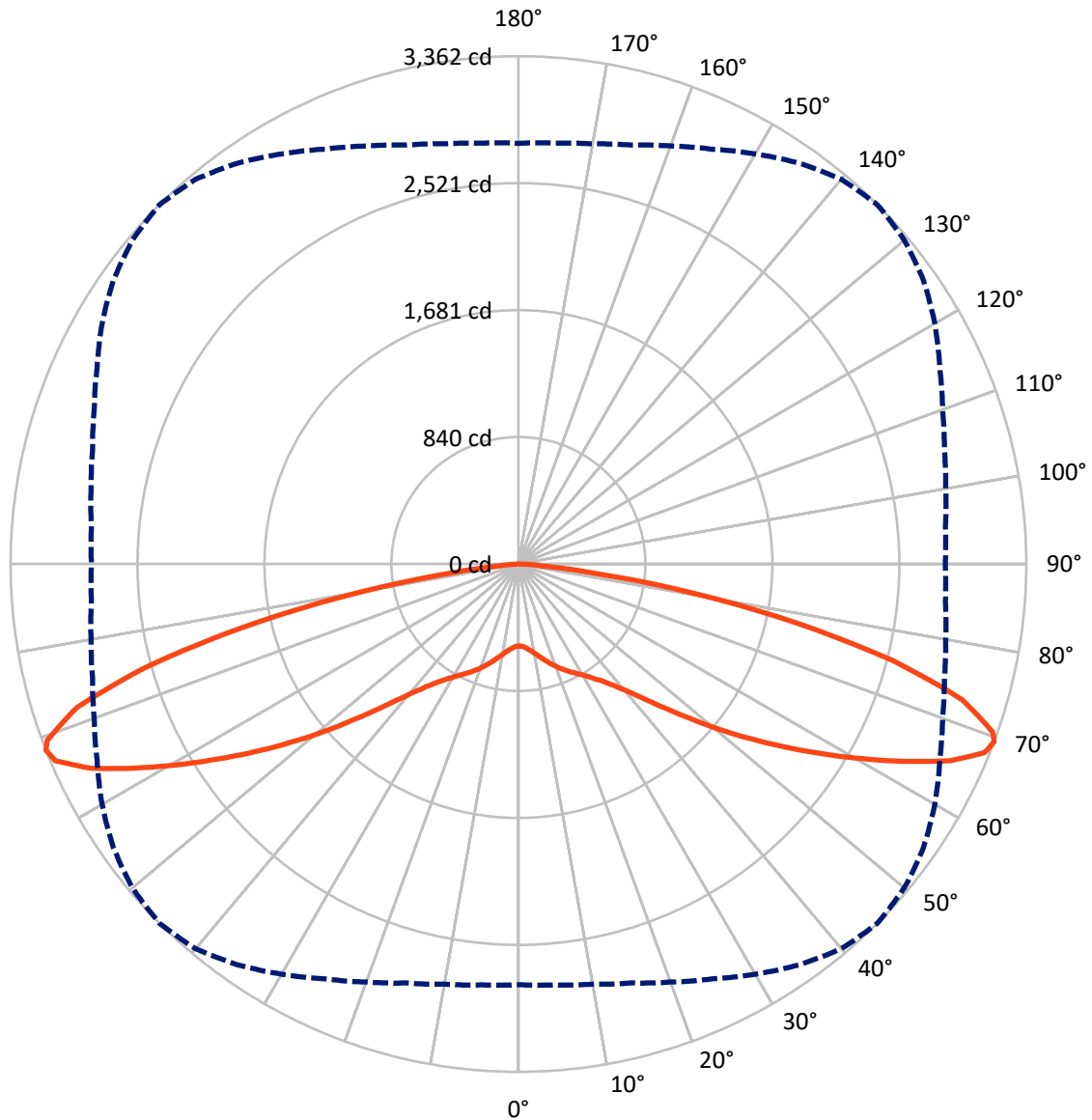
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P144162
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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4718.4 | 0.0 | 4718.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4718.4 | 0.0 | 4718.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9436.8 | 0.0 | 9436.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 54.7 | 0.6 |
| 10°-20° | 188.6 | 2.0 |
| 20°-30° | 363.5 | 3.9 |
| 30°-40° | 595.7 | 6.3 |
| 40°-50° | 1035.8 | 11.0 |
| 50°-60° | 1839.9 | 19.5 |
| 60°-70° | 2856.5 | 30.3 |
| 70°-80° | 2275.9 | 24.1 |
| 80°-90° | 226.3 | 2.4 |
| 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° | 9436.8 | 100.0 |
| 0°-180° | 9436.8 | 100.0 |



REPORT NUMBER: P144162

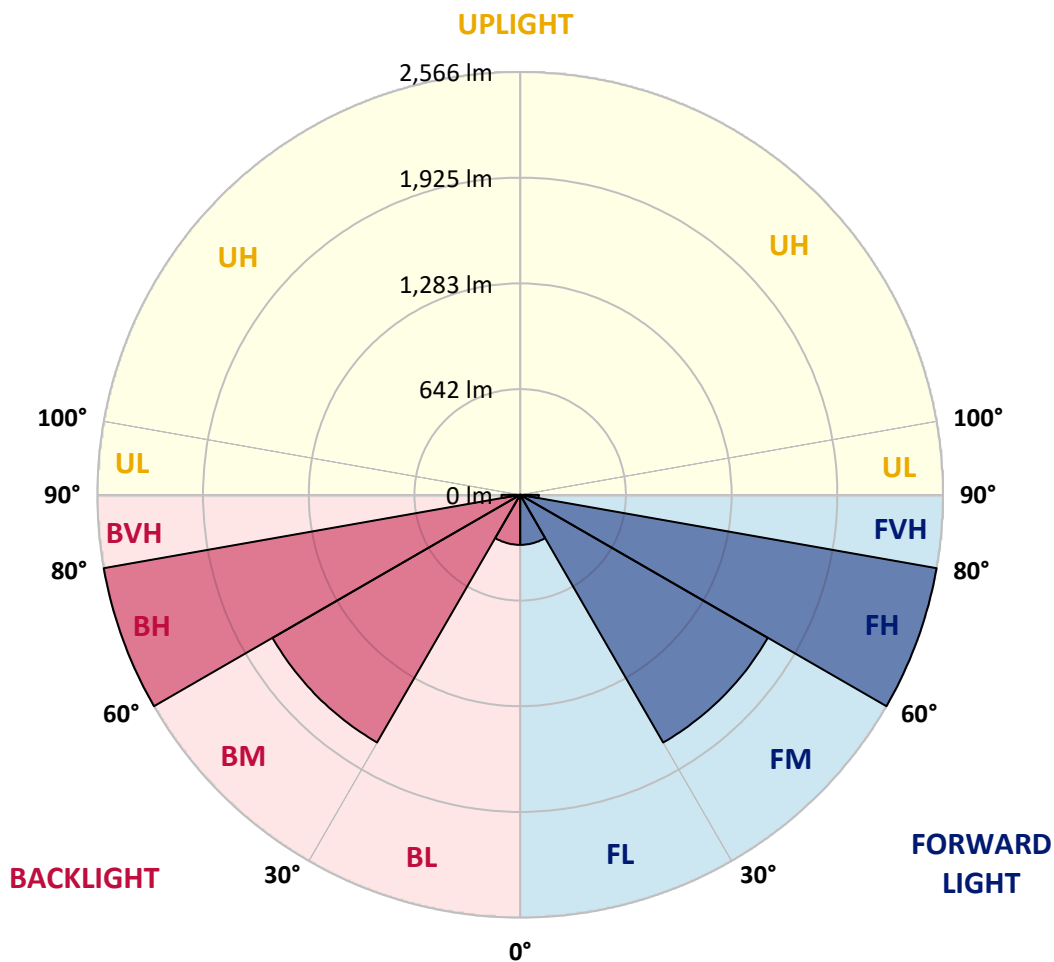
CATALOG NUMBER: OVH-E03-LED-E-U-5WQ-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 303.4 | 3.2 | | | |
| FM | (30°-60°) | 1735.6 | 18.4 | | | |
| FH | (60°-80°) | 2566.2 | 27.2 | | | G2/5000 |
| FVH | (80°-90°) | 113.2 | 1.2 | | | G2/225 |
| BL | (0°-30°) | 303.4 | 3.2 | B1/500 | | |
| BM | (30°-60°) | 1735.6 | 18.4 | B2/2500 | | |
| BH | (60°-80°) | 2566.2 | 27.2 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 113.2 | 1.2 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P144162

CATALOG NUMBER: OVH-E03-LED-E-U-5WQ-7060

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 542.4 | 542.4 | 542.4 | 542.4 | 542.4 | 542.4 | 542.4 | 542.4 | 542.4 | 542.4 | 542.4 |
| 2.5° | 546.7 | 546.7 | 546.7 | 546.1 | 546.1 | 545.5 | 546.1 | 545.5 | 545.5 | 545.5 | 545.5 |
| 5° | 560.9 | 559.6 | 559.6 | 559.0 | 560.3 | 560.3 | 559.0 | 559.6 | 559.0 | 559.6 | 559.6 |
| 7.5° | 578.7 | 578.7 | 578.7 | 578.1 | 579.3 | 578.7 | 578.1 | 578.7 | 578.7 | 578.1 | 578.1 |
| 10° | 600.9 | 601.5 | 600.9 | 600.9 | 602.7 | 602.1 | 602.7 | 602.7 | 603.4 | 602.7 | 602.7 |
| 12.5° | 626.7 | 626.7 | 627.4 | 628.0 | 628.6 | 629.2 | 631.1 | 630.4 | 631.7 | 630.4 | 630.4 |
| 15° | 656.9 | 658.1 | 656.9 | 656.9 | 658.8 | 660.0 | 660.6 | 660.6 | 661.8 | 661.2 | 660.0 |
| 17.5° | 688.9 | 689.5 | 688.9 | 688.3 | 690.2 | 692.0 | 692.6 | 692.6 | 694.5 | 693.2 | 693.2 |
| 20° | 721.6 | 722.2 | 720.9 | 720.3 | 722.8 | 722.8 | 724.0 | 724.6 | 726.5 | 727.1 | 725.3 |
| 22.5° | 751.7 | 752.3 | 751.7 | 751.1 | 753.6 | 753.6 | 755.4 | 756.0 | 758.5 | 757.9 | 757.9 |
| 25° | 781.3 | 781.3 | 780.7 | 780.7 | 783.1 | 783.7 | 785.6 | 786.8 | 789.3 | 789.3 | 789.3 |
| 27.5° | 808.4 | 809.0 | 807.8 | 807.1 | 812.1 | 813.9 | 815.1 | 817.6 | 819.4 | 820.7 | 820.1 |
| 30° | 839.1 | 839.1 | 838.5 | 840.4 | 843.5 | 845.9 | 848.4 | 852.1 | 855.8 | 854.5 | 854.5 |
| 32.5° | 875.5 | 876.7 | 876.1 | 878.6 | 882.2 | 885.9 | 889.0 | 893.3 | 895.2 | 898.3 | 895.8 |
| 35° | 924.1 | 926.6 | 925.3 | 927.8 | 930.9 | 933.3 | 940.1 | 944.4 | 947.5 | 949.4 | 948.1 |
| 37.5° | 985.1 | 983.8 | 986.3 | 986.9 | 993.1 | 996.1 | 1004.1 | 1010.3 | 1015.2 | 1017.1 | 1015.8 |
| 40° | 1060.8 | 1058.9 | 1062.0 | 1065.1 | 1073.1 | 1076.2 | 1085.4 | 1094.6 | 1101.4 | 1103.9 | 1102.7 |
| 42.5° | 1151.3 | 1153.8 | 1158.7 | 1163.0 | 1174.1 | 1182.7 | 1193.2 | 1206.7 | 1214.1 | 1217.2 | 1212.9 |
| 45° | 1270.1 | 1265.8 | 1275.0 | 1286.1 | 1292.3 | 1311.4 | 1328.6 | 1342.8 | 1355.1 | 1360.0 | 1355.1 |
| 47.5° | 1405.6 | 1404.9 | 1416.0 | 1429.6 | 1445.6 | 1463.4 | 1483.7 | 1502.2 | 1523.8 | 1525.0 | 1518.8 |
| 50° | 1555.2 | 1567.5 | 1573.6 | 1587.2 | 1616.7 | 1638.9 | 1664.8 | 1692.5 | 1712.2 | 1718.3 | 1707.2 |
| 52.5° | 1735.6 | 1744.8 | 1748.5 | 1771.3 | 1798.4 | 1825.4 | 1861.8 | 1895.0 | 1917.8 | 1920.3 | 1914.7 |
| 55° | 1931.3 | 1938.7 | 1945.5 | 1973.2 | 2002.8 | 2026.8 | 2072.9 | 2105.6 | 2128.3 | 2137.0 | 2133.3 |
| 57.5° | 2133.9 | 2140.7 | 2149.3 | 2179.4 | 2209.6 | 2243.5 | 2287.2 | 2325.4 | 2351.8 | 2367.8 | 2363.5 |
| 60° | 2358.6 | 2358.6 | 2378.3 | 2408.5 | 2433.1 | 2473.1 | 2518.7 | 2563.0 | 2591.9 | 2617.2 | 2610.4 |
| 62.5° | 2595.0 | 2601.8 | 2620.9 | 2645.5 | 2671.4 | 2708.3 | 2760.0 | 2813.0 | 2857.3 | 2876.4 | 2875.8 |
| 65° | 2774.2 | 2786.5 | 2811.7 | 2840.1 | 2883.2 | 2926.9 | 2992.1 | 3058.0 | 3111.6 | 3139.3 | 3139.3 |
| 67.5° | 2826.5 | 2834.5 | 2865.9 | 2909.0 | 2971.2 | 3040.8 | 3129.4 | 3221.2 | 3294.4 | 3330.7 | 3308.0 |
| 69° | 2784.6 | 2796.3 | 2824.0 | 2870.8 | 2944.7 | 3029.7 | 3135.0 | 3239.0 | 3324.0 | 3361.5 | 3335.0 |
| 70° | 2736.0 | 2748.9 | 2776.6 | 2822.8 | 2899.2 | 2989.7 | 3094.9 | 3207.0 | 3298.1 | 3330.1 | 3300.0 |
| 72.5° | 2537.8 | 2553.8 | 2573.5 | 2613.5 | 2682.4 | 2767.4 | 2862.2 | 2960.7 | 3048.1 | 3073.4 | 3035.8 |
| 75° | 2199.8 | 2202.8 | 2212.7 | 2242.2 | 2266.9 | 2327.2 | 2407.9 | 2486.0 | 2551.9 | 2566.7 | 2526.7 |
| 77.5° | 1557.0 | 1540.4 | 1523.8 | 1549.0 | 1568.7 | 1646.3 | 1733.7 | 1797.7 | 1866.7 | 1887.6 | 1847.0 |
| 80° | 682.8 | 676.6 | 700.0 | 733.3 | 820.1 | 871.8 | 957.4 | 1049.1 | 1107.6 | 1175.9 | 1102.7 |
| 82.5° | 134.8 | 142.2 | 164.4 | 203.2 | 250.6 | 315.2 | 371.2 | 434.7 | 491.9 | 517.8 | 491.3 |
| 85° | 54.8 | 59.7 | 67.7 | 75.7 | 81.3 | 91.1 | 107.1 | 133.0 | 146.5 | 148.4 | 141.0 |
| 87.5° | 22.8 | 26.5 | 35.7 | 42.5 | 43.1 | 41.2 | 42.5 | 43.7 | 35.7 | 28.9 | 36.3 |
| 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: P144162

CATALOG NUMBER: OVH-E03-LED-E-U-5WQ-7060

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 542.4 | 542.4 | 542.4 | 542.4 | 542.4 | 542.4 | 542.4 | 542.4 |
| 2.5° | 545.5 | 546.1 | 545.5 | 546.1 | 545.5 | 545.5 | 546.1 | 545.5 |
| 5° | 559.0 | 559.6 | 559.0 | 558.4 | 557.8 | 558.4 | 558.4 | 558.4 |
| 7.5° | 578.1 | 577.5 | 576.9 | 576.9 | 576.3 | 575.6 | 576.9 | 576.9 |
| 10° | 601.5 | 600.9 | 599.7 | 599.7 | 599.0 | 599.0 | 599.0 | 599.0 |
| 12.5° | 629.8 | 628.0 | 627.4 | 625.5 | 624.9 | 624.3 | 624.3 | 624.9 |
| 15° | 659.4 | 657.5 | 656.9 | 653.8 | 653.8 | 653.2 | 653.2 | 653.2 |
| 17.5° | 690.8 | 688.9 | 686.5 | 686.5 | 684.6 | 683.4 | 684.0 | 682.8 |
| 20° | 722.8 | 720.3 | 719.1 | 718.5 | 716.0 | 716.0 | 716.0 | 715.4 |
| 22.5° | 754.2 | 752.3 | 750.5 | 748.0 | 745.6 | 745.0 | 745.0 | 744.3 |
| 25° | 786.2 | 783.1 | 779.4 | 777.0 | 774.5 | 772.7 | 772.7 | 772.7 |
| 27.5° | 818.2 | 814.5 | 809.0 | 805.9 | 802.2 | 800.4 | 800.4 | 799.7 |
| 30° | 852.1 | 847.8 | 842.8 | 838.5 | 833.6 | 831.8 | 831.1 | 829.9 |
| 32.5° | 892.7 | 888.4 | 883.5 | 877.3 | 872.4 | 869.3 | 869.3 | 867.5 |
| 35° | 944.4 | 939.5 | 935.8 | 927.8 | 921.6 | 916.7 | 917.3 | 918.6 |
| 37.5° | 1012.2 | 1006.0 | 1002.9 | 993.1 | 985.1 | 980.1 | 980.1 | 979.5 |
| 40° | 1098.3 | 1092.2 | 1085.4 | 1076.2 | 1066.3 | 1059.6 | 1057.7 | 1057.7 |
| 42.5° | 1207.9 | 1202.4 | 1193.2 | 1180.2 | 1168.5 | 1161.1 | 1155.0 | 1155.6 |
| 45° | 1345.2 | 1338.5 | 1325.5 | 1309.5 | 1295.4 | 1284.9 | 1276.3 | 1276.3 |
| 47.5° | 1512.1 | 1497.9 | 1480.1 | 1465.9 | 1441.9 | 1425.9 | 1419.7 | 1418.5 |
| 50° | 1702.3 | 1675.8 | 1653.7 | 1633.4 | 1608.1 | 1591.5 | 1582.3 | 1579.8 |
| 52.5° | 1901.8 | 1874.1 | 1846.4 | 1819.9 | 1789.1 | 1771.9 | 1757.1 | 1755.9 |
| 55° | 2118.5 | 2083.4 | 2048.3 | 2022.5 | 1986.1 | 1968.3 | 1953.5 | 1944.9 |
| 57.5° | 2339.5 | 2300.1 | 2274.9 | 2237.9 | 2199.8 | 2186.8 | 2172.7 | 2162.2 |
| 60° | 2588.2 | 2545.2 | 2511.9 | 2473.1 | 2448.5 | 2420.8 | 2407.2 | 2399.2 |
| 62.5° | 2842.5 | 2802.5 | 2760.0 | 2723.1 | 2688.6 | 2669.5 | 2651.0 | 2641.8 |
| 65° | 3101.1 | 3035.2 | 2984.7 | 2933.6 | 2893.0 | 2858.5 | 2829.6 | 2825.9 |
| 67.5° | 3259.9 | 3176.8 | 3092.5 | 3018.0 | 2958.3 | 2909.6 | 2880.1 | 2869.6 |
| 69° | 3272.9 | 3182.4 | 3077.1 | 2987.8 | 2918.9 | 2872.1 | 2837.0 | 2825.9 |
| 70° | 3237.2 | 3146.0 | 3035.2 | 2939.2 | 2867.8 | 2816.7 | 2787.7 | 2769.3 |
| 72.5° | 2976.1 | 2896.1 | 2789.6 | 2694.8 | 2630.1 | 2570.4 | 2541.5 | 2534.1 |
| 75° | 2455.3 | 2370.3 | 2272.4 | 2226.9 | 2181.9 | 2144.4 | 2124.7 | 2122.8 |
| 77.5° | 1743.6 | 1656.7 | 1582.3 | 1522.5 | 1473.9 | 1449.9 | 1455.4 | 1435.1 |
| 80° | 998.0 | 884.7 | 794.8 | 741.9 | 669.8 | 626.7 | 578.1 | 613.2 |
| 82.5° | 429.1 | 346.6 | 264.1 | 214.9 | 163.8 | 129.9 | 107.1 | 99.7 |
| 85° | 120.1 | 97.9 | 81.9 | 75.1 | 67.7 | 60.3 | 51.1 | 47.4 |
| 87.5° | 40.6 | 38.8 | 34.5 | 34.5 | 31.4 | 26.5 | 18.5 | 16.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)