

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: P147597

Luminaire Tested: **AVS-F04-LED-E-U-5MQ-7060**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P147597  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: AVS-F04-LED-E-U-5MQ-7060  
Description: VISION SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (28) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 10923.1 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 102.2  
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



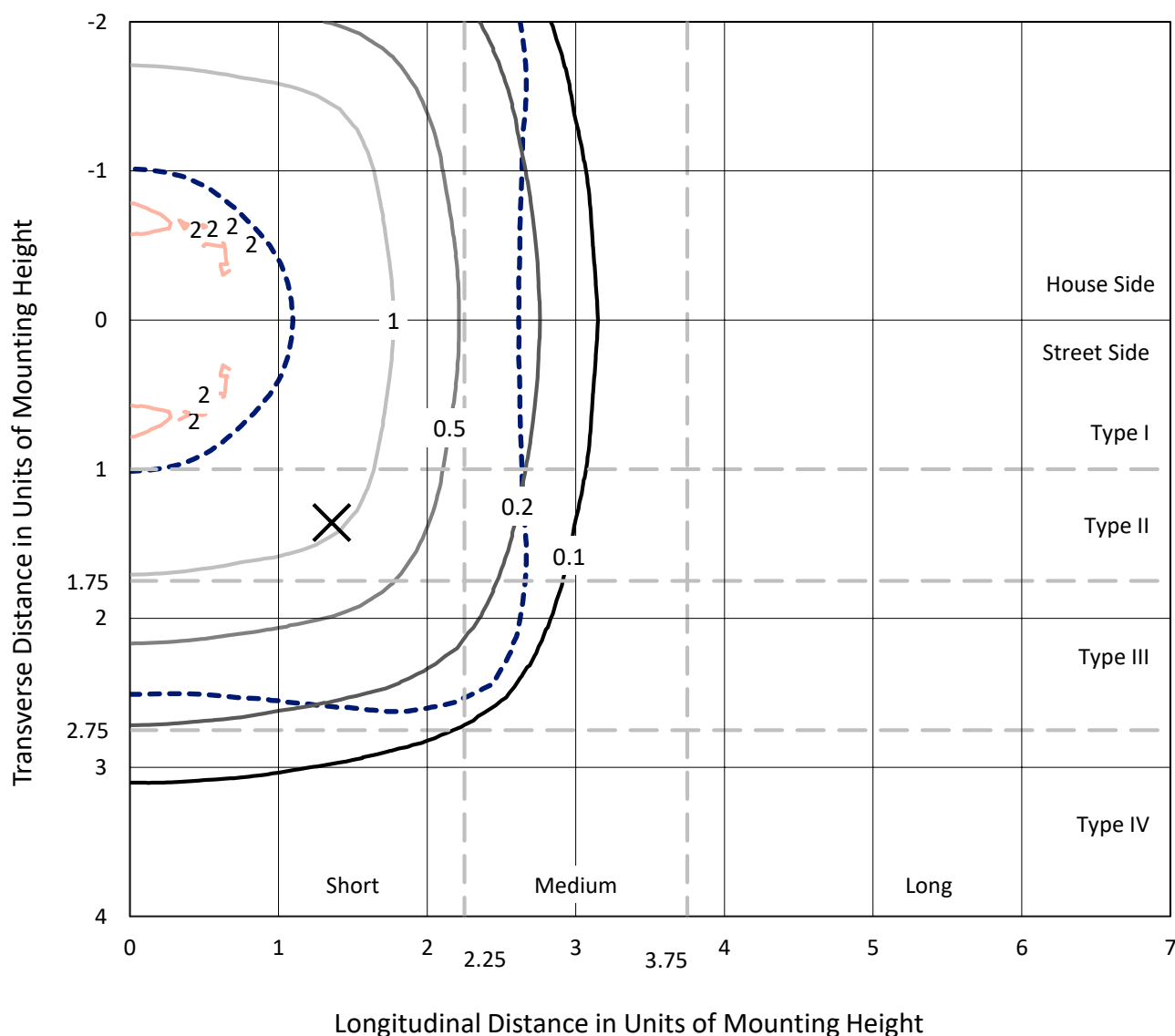
REPORT NUMBER: P147597

CATALOG NUMBER: AVS-F04-LED-E-U-5MQ-7060

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

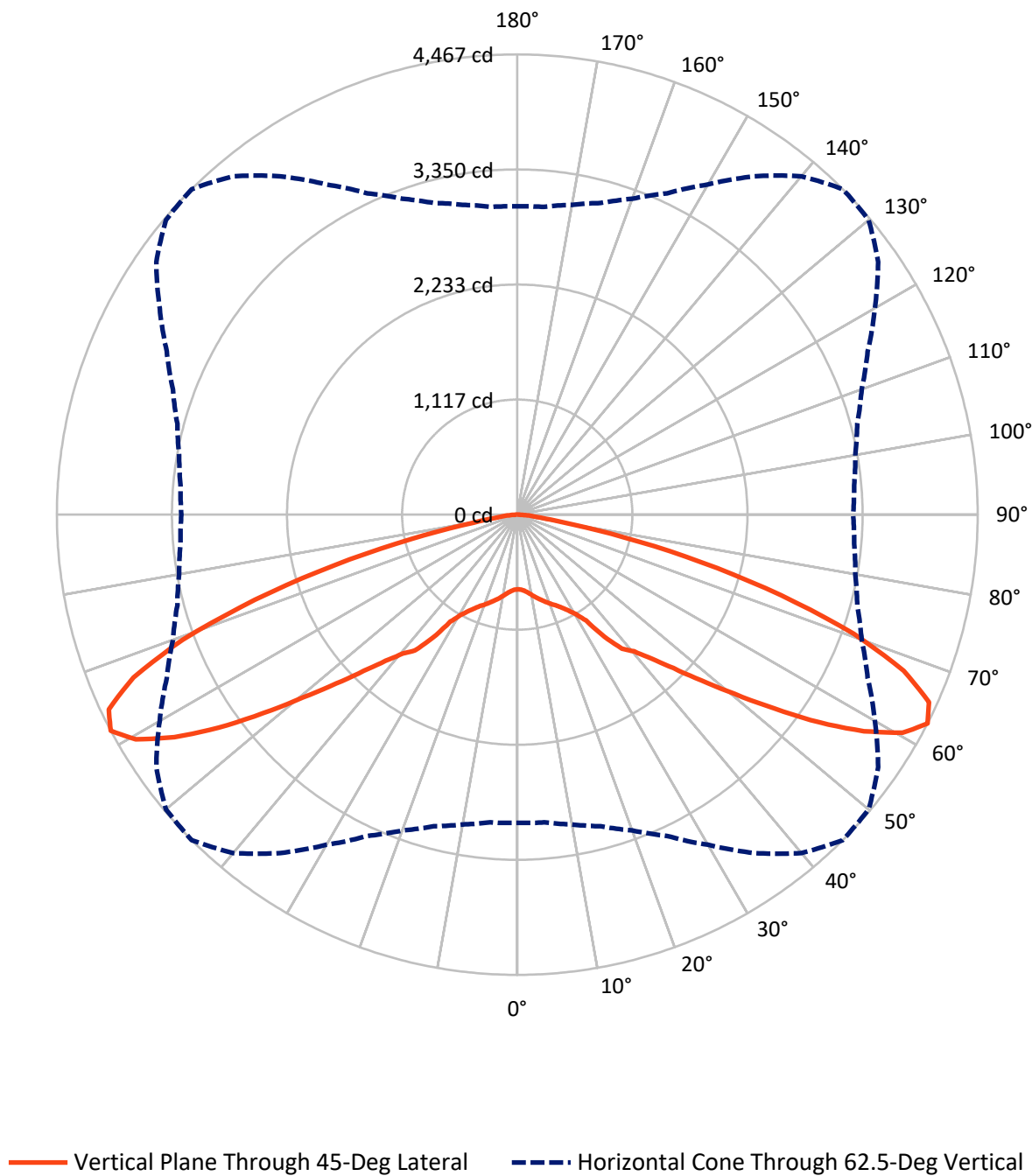


Based on 20 foot mounting height. Maximum calculated value = 2.1 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P147597

CATALOG NUMBER: AVS-F04-LED-E-U-5MQ-7060

## Luminous Intensity Polar Plot



REPORT NUMBER: P147597

CATALOG NUMBER: AVS-F04-LED-E-U-5MQ-7060

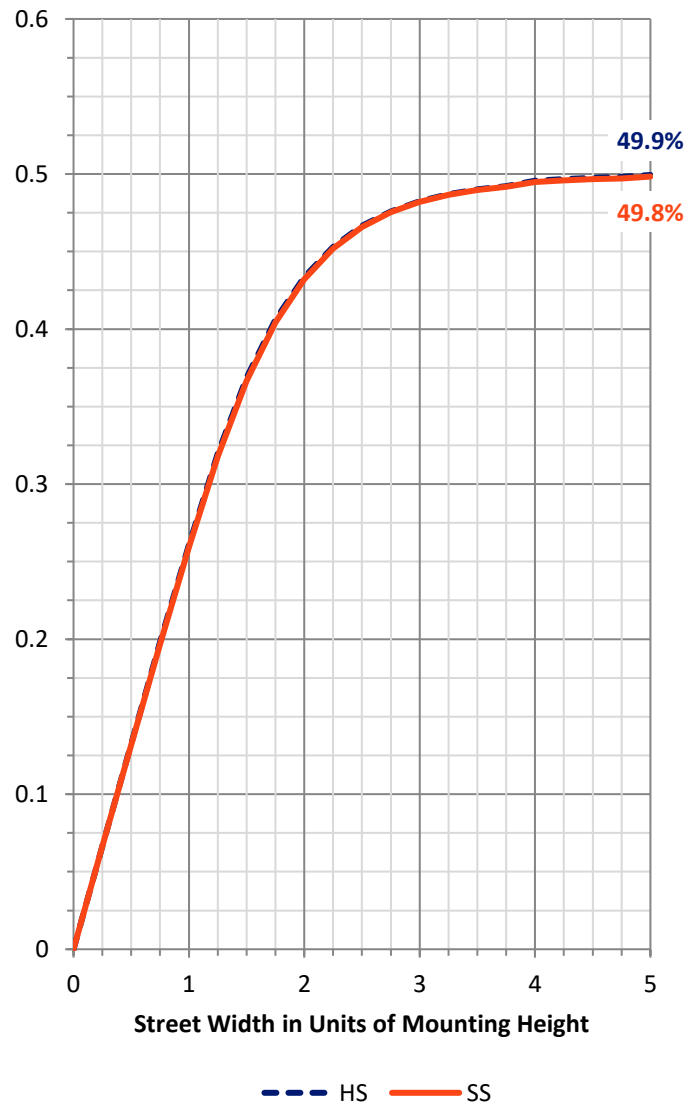
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5461.6   | 0.0    | 5461.6  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5461.6   | 0.0    | 5461.6  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10923.1  | 0.0    | 10923.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 72.7    | 0.7       |
| 10°-20°   | 245.6   | 2.2       |
| 20°-30°   | 474.9   | 4.3       |
| 30°-40°   | 919.6   | 8.4       |
| 40°-50°   | 1660.3  | 15.2      |
| 50°-60°   | 2887.1  | 26.4      |
| 60°-70°   | 3277.6  | 30.0      |
| 70°-80°   | 1270.7  | 11.6      |
| 80°-90°   | 114.6   | 1.0       |
| 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°    | 10923.1 | 100.0     |
| 0°-180°   | 10923.1 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P147597

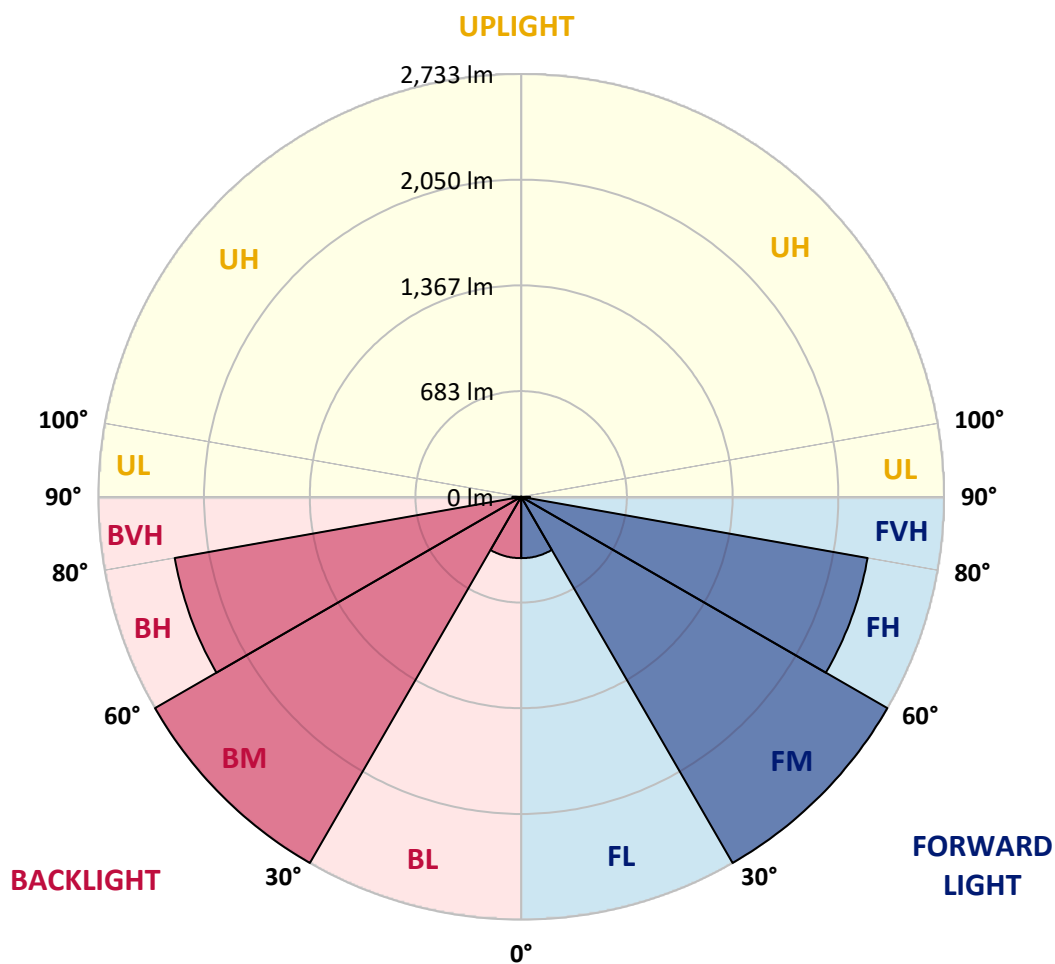
CATALOG NUMBER: AVS-F04-LED-E-U-5MQ-7060

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 396.6  | 3.6       |                         |      |         |
| FM   | (30°-60°)   | 2733.5 | 25.0      |                         |      |         |
| FH   | (60°-80°)   | 2274.1 | 20.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 57.3   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 396.6  | 3.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2733.5 | 25.0      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2274.1 | 20.8      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 57.3   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short





REPORT NUMBER: P147597

CATALOG NUMBER: AVS-F04-LED-E-U-5MQ-7060

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 725.1  | 725.1  | 725.1  | 725.1  | 725.1  | 725.1  | 725.1  | 725.1  | 725.1  | 725.1  | 725.1  |
| 2.5°  | 729.6  | 731.8  | 731.3  | 730.2  | 730.2  | 730.2  | 729.6  | 727.9  | 727.3  | 728.5  | 729.5  |
| 5°    | 746.5  | 746.5  | 746.5  | 746.5  | 745.5  | 745.5  | 744.2  | 743.2  | 743.7  | 742.6  | 742.0  |
| 7.5°  | 772.5  | 770.8  | 770.8  | 770.3  | 770.3  | 769.1  | 767.5  | 765.2  | 765.8  | 765.2  | 764.6  |
| 10°   | 803.1  | 803.6  | 801.9  | 803.5  | 800.8  | 800.2  | 797.9  | 796.8  | 796.3  | 794.6  | 794.6  |
| 12.5° | 839.7  | 838.0  | 838.0  | 836.9  | 835.8  | 834.6  | 831.3  | 830.7  | 828.4  | 827.3  | 825.7  |
| 15°   | 874.2  | 873.6  | 871.3  | 869.0  | 868.6  | 867.4  | 863.4  | 861.1  | 860.6  | 857.8  | 855.5  |
| 17.5° | 908.6  | 907.6  | 904.7  | 903.5  | 901.3  | 899.6  | 896.2  | 892.8  | 891.2  | 889.9  | 887.2  |
| 20°   | 945.3  | 944.2  | 941.3  | 939.1  | 936.4  | 934.1  | 928.9  | 926.1  | 924.5  | 922.7  | 920.5  |
| 22.5° | 991.1  | 988.8  | 984.2  | 980.3  | 974.1  | 971.8  | 965.1  | 961.1  | 958.3  | 956.1  | 954.9  |
| 25°   | 1040.8 | 1041.3 | 1035.0 | 1030.1 | 1022.7 | 1016.5 | 1008.0 | 1003.5 | 1000.6 | 998.4  | 997.9  |
| 27.5° | 1102.8 | 1103.4 | 1097.8 | 1090.5 | 1079.2 | 1072.3 | 1061.1 | 1055.4 | 1053.8 | 1051.5 | 1051.0 |
| 30°   | 1201.1 | 1196.1 | 1186.5 | 1174.6 | 1164.4 | 1149.8 | 1133.4 | 1127.7 | 1122.1 | 1120.4 | 1120.4 |
| 32.5° | 1381.9 | 1379.1 | 1371.2 | 1341.8 | 1328.3 | 1297.7 | 1269.0 | 1252.5 | 1233.9 | 1224.9 | 1219.3 |
| 35°   | 1508.4 | 1507.3 | 1501.0 | 1490.8 | 1482.4 | 1476.2 | 1459.3 | 1456.4 | 1453.1 | 1453.1 | 1457.5 |
| 37.5° | 1601.6 | 1594.8 | 1593.6 | 1595.2 | 1593.1 | 1594.2 | 1607.8 | 1626.3 | 1642.2 | 1650.2 | 1648.9 |
| 40°   | 1739.3 | 1729.7 | 1735.3 | 1731.4 | 1726.3 | 1725.2 | 1729.7 | 1737.0 | 1744.5 | 1744.5 | 1742.7 |
| 42.5° | 1919.5 | 1923.9 | 1926.2 | 1909.8 | 1899.2 | 1896.4 | 1907.0 | 1904.9 | 1912.1 | 1909.2 | 1902.0 |
| 45°   | 2187.2 | 2184.4 | 2180.3 | 2160.6 | 2143.6 | 2130.2 | 2133.0 | 2129.0 | 2129.5 | 2125.0 | 2119.4 |
| 47.5° | 2457.0 | 2466.7 | 2450.4 | 2440.7 | 2421.6 | 2411.9 | 2419.9 | 2413.1 | 2426.0 | 2402.3 | 2391.1 |
| 50°   | 2719.2 | 2725.9 | 2720.2 | 2706.7 | 2706.7 | 2720.2 | 2729.8 | 2742.3 | 2760.4 | 2733.3 | 2692.6 |
| 52.5° | 2933.7 | 2939.4 | 2947.8 | 2959.2 | 2986.7 | 3015.5 | 3056.3 | 3099.7 | 3134.1 | 3129.1 | 3082.8 |
| 55°   | 3064.7 | 3071.5 | 3085.6 | 3124.6 | 3174.3 | 3249.9 | 3342.0 | 3443.1 | 3522.1 | 3560.5 | 3526.6 |
| 57.5° | 3108.8 | 3113.9 | 3152.2 | 3199.1 | 3276.5 | 3388.8 | 3543.0 | 3717.5 | 3869.4 | 3966.0 | 3950.8 |
| 60°   | 3098.5 | 3098.5 | 3137.6 | 3202.0 | 3310.4 | 3459.5 | 3677.5 | 3919.2 | 4151.8 | 4296.4 | 4274.9 |
| 62.5° | 2991.9 | 2997.5 | 3053.5 | 3130.8 | 3261.8 | 3440.2 | 3700.1 | 4008.9 | 4287.4 | 4466.9 | 4449.4 |
| 65°   | 2758.1 | 2762.1 | 2822.5 | 2914.5 | 3060.7 | 3271.9 | 3556.1 | 3898.2 | 4217.3 | 4390.1 | 4357.3 |
| 67.5° | 2380.3 | 2384.2 | 2433.4 | 2537.2 | 2692.0 | 2912.7 | 3219.5 | 3596.1 | 3908.4 | 4045.0 | 3946.7 |
| 70°   | 1893.5 | 1904.9 | 1936.4 | 2046.5 | 2163.9 | 2380.3 | 2662.6 | 3039.4 | 3334.1 | 3463.4 | 3355.0 |
| 72.5° | 1290.4 | 1319.2 | 1357.5 | 1455.2 | 1567.7 | 1747.3 | 1972.0 | 2289.3 | 2526.0 | 2675.6 | 2579.1 |
| 75°   | 726.8  | 767.5  | 779.4  | 853.3  | 945.9  | 1087.7 | 1252.0 | 1479.6 | 1718.4 | 1839.8 | 1723.5 |
| 77.5° | 314.0  | 347.4  | 362.1  | 396.5  | 468.8  | 528.1  | 628.0  | 781.6  | 966.2  | 1051.5 | 912.0  |
| 80°   | 154.7  | 162.7  | 168.9  | 179.6  | 199.9  | 219.1  | 266.5  | 333.7  | 409.3  | 428.6  | 341.1  |
| 82.5° | 119.7  | 125.4  | 136.2  | 144.6  | 149.6  | 154.7  | 159.3  | 168.3  | 175.6  | 179.6  | 169.4  |
| 85°   | 84.1   | 91.5   | 103.4  | 113.0  | 118.7  | 122.5  | 126.4  | 129.3  | 122.5  | 111.8  | 117.5  |
| 87.5° | 22.0   | 28.8   | 40.1   | 43.4   | 49.1   | 51.9   | 50.8   | 52.5   | 47.5   | 34.4   | 38.3   |
| 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: P147597

CATALOG NUMBER: AVS-F04-LED-E-U-5MQ-7060

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 725.1  | 725.1  | 725.1  | 725.1  | 725.1  | 725.1  | 725.1  | 725.1  |
| 2.5°  | 729.1  | 728.5  | 729.1  | 729.1  | 729.0  | 728.5  | 728.5  | 728.5  |
| 5°    | 742.0  | 742.1  | 742.6  | 741.5  | 741.6  | 742.0  | 741.5  | 740.9  |
| 7.5°  | 764.1  | 763.5  | 763.5  | 762.9  | 763.5  | 762.9  | 762.9  | 762.4  |
| 10°   | 793.4  | 792.3  | 792.8  | 791.1  | 791.2  | 790.6  | 790.7  | 790.6  |
| 12.5° | 825.1  | 823.4  | 823.9  | 822.2  | 819.4  | 820.0  | 820.5  | 820.0  |
| 15°   | 855.5  | 853.9  | 852.2  | 851.0  | 849.3  | 849.9  | 849.9  | 849.3  |
| 17.5° | 886.6  | 883.2  | 882.7  | 880.9  | 880.4  | 880.4  | 880.4  | 880.9  |
| 20°   | 918.8  | 916.5  | 916.0  | 914.3  | 913.8  | 915.4  | 916.1  | 914.8  |
| 22.5° | 953.3  | 952.1  | 953.2  | 952.1  | 953.8  | 954.9  | 955.4  | 954.4  |
| 25°   | 996.7  | 995.6  | 997.3  | 1001.2 | 1003.5 | 1004.6 | 1007.5 | 1006.3 |
| 27.5° | 1052.6 | 1051.5 | 1055.5 | 1061.1 | 1064.5 | 1070.2 | 1073.0 | 1074.1 |
| 30°   | 1125.0 | 1129.9 | 1132.2 | 1143.6 | 1145.9 | 1154.8 | 1154.8 | 1158.8 |
| 32.5° | 1229.9 | 1239.6 | 1256.5 | 1274.0 | 1298.2 | 1315.9 | 1315.9 | 1324.9 |
| 35°   | 1460.3 | 1464.2 | 1477.3 | 1480.1 | 1485.2 | 1490.9 | 1485.2 | 1489.7 |
| 37.5° | 1637.1 | 1619.6 | 1607.3 | 1589.7 | 1579.0 | 1579.0 | 1580.1 | 1579.0 |
| 40°   | 1727.5 | 1720.6 | 1715.0 | 1700.3 | 1698.0 | 1697.6 | 1697.6 | 1699.8 |
| 42.5° | 1888.9 | 1872.5 | 1863.5 | 1851.2 | 1847.3 | 1846.0 | 1845.6 | 1846.6 |
| 45°   | 2099.1 | 2072.5 | 2048.3 | 2035.9 | 2025.1 | 2014.9 | 2018.2 | 2018.3 |
| 47.5° | 2343.6 | 2302.4 | 2262.8 | 2241.5 | 2222.8 | 2214.3 | 2208.6 | 2206.9 |
| 50°   | 2641.2 | 2583.6 | 2532.7 | 2492.6 | 2465.5 | 2465.0 | 2467.8 | 2449.7 |
| 52.5° | 3006.0 | 2915.0 | 2851.8 | 2797.6 | 2772.2 | 2769.3 | 2760.3 | 2750.2 |
| 55°   | 3410.4 | 3302.5 | 3198.0 | 3139.9 | 3106.5 | 3088.5 | 3077.7 | 3060.7 |
| 57.5° | 3827.2 | 3681.9 | 3531.7 | 3438.5 | 3379.9 | 3339.2 | 3317.7 | 3308.1 |
| 60°   | 4148.4 | 3950.2 | 3751.9 | 3602.3 | 3504.7 | 3444.2 | 3406.9 | 3391.7 |
| 62.5° | 4274.8 | 4006.1 | 3751.9 | 3555.4 | 3414.3 | 3330.7 | 3280.4 | 3258.4 |
| 65°   | 4124.1 | 3805.6 | 3516.5 | 3299.6 | 3142.1 | 3048.9 | 2994.2 | 2970.4 |
| 67.5° | 3702.8 | 3421.7 | 3107.2 | 2891.4 | 2729.3 | 2637.3 | 2577.9 | 2560.4 |
| 70°   | 3104.2 | 2816.8 | 2516.4 | 2323.8 | 2179.3 | 2104.1 | 2042.6 | 2035.2 |
| 72.5° | 2332.8 | 2085.0 | 1827.4 | 1668.2 | 1551.8 | 1427.6 | 1396.0 | 1411.8 |
| 75°   | 1495.3 | 1263.3 | 1034.0 | 890.6  | 784.5  | 665.7  | 620.1  | 631.4  |
| 77.5° | 708.2  | 548.4  | 395.9  | 306.1  | 257.0  | 219.7  | 210.2  | 204.5  |
| 80°   | 262.6  | 212.8  | 188.0  | 178.4  | 171.6  | 165.4  | 160.9  | 155.9  |
| 82.5° | 169.9  | 166.0  | 160.9  | 159.2  | 154.2  | 146.2  | 131.6  | 125.4  |
| 85°   | 127.0  | 127.0  | 120.3  | 120.8  | 116.9  | 106.7  | 93.3   | 85.8   |
| 87.5° | 37.3   | 33.4   | 30.5   | 28.2   | 27.7   | 24.9   | 18.0   | 15.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)