

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: P148052

Luminaire Tested: **AVM-E04-LED-E-U-5WQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P148052
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: AVM-E04-LED-E-U-5WQ-7060
Description: VISION SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (84) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13067.6 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

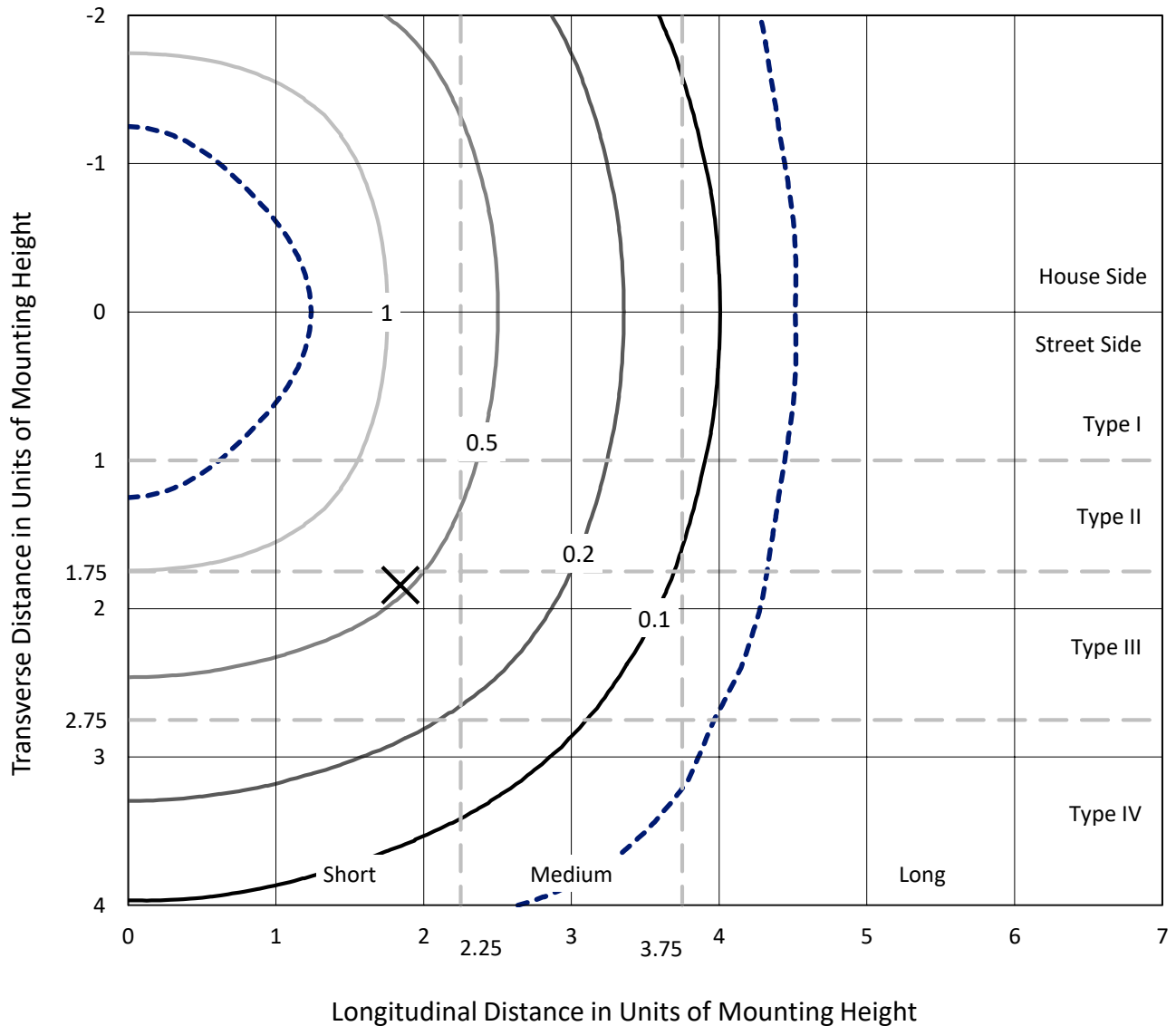
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

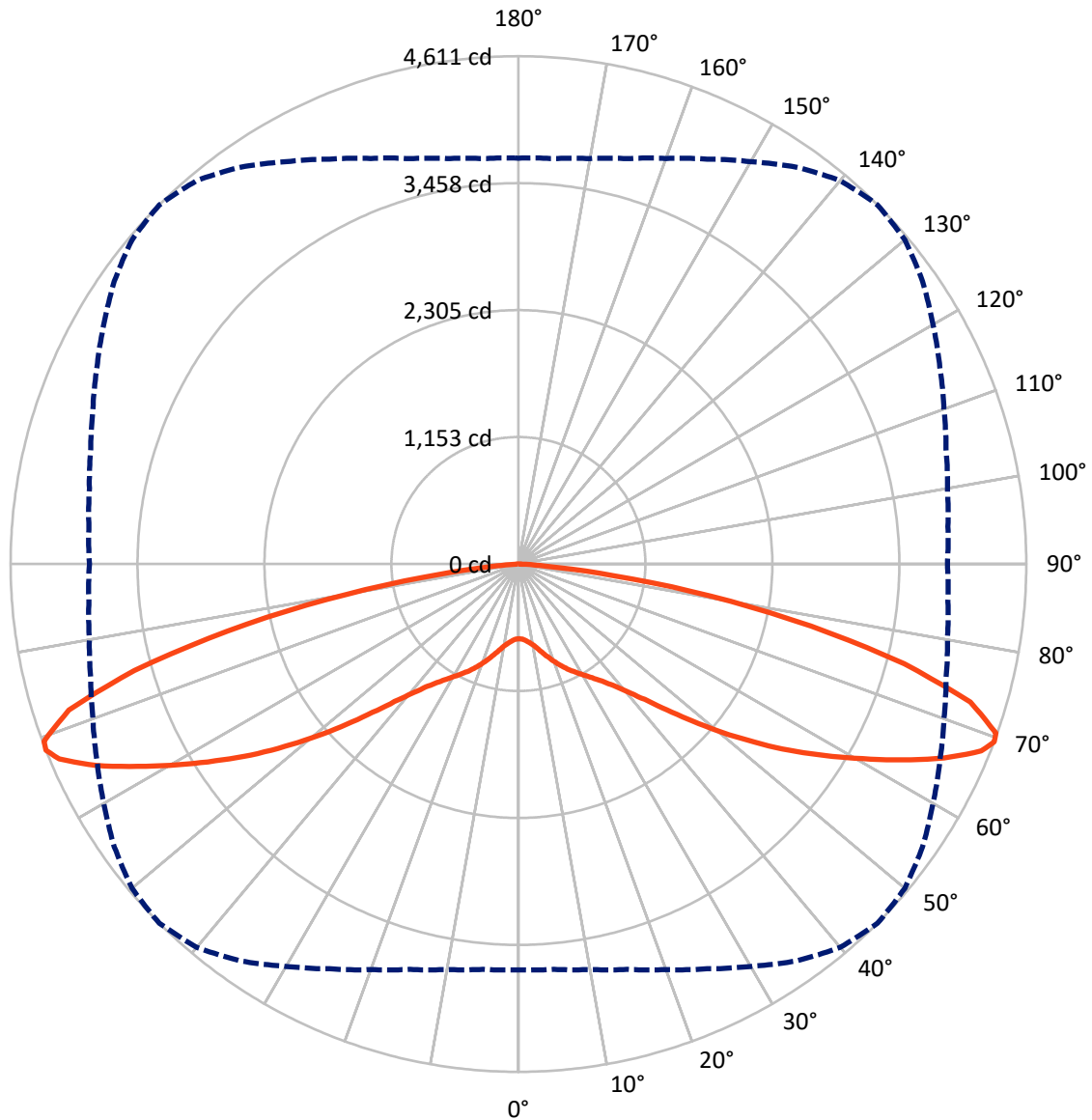


Based on 20 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - Semi-Cutoff

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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 | 6533.8 | 0.0 | 6533.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6533.8 | 0.0 | 6533.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 13067.6 | 0.0 | 13067.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 68.2 | 0.5 |
| 10°-20° | 240.6 | 1.8 |
| 20°-30° | 487.2 | 3.7 |
| 30°-40° | 816.9 | 6.3 |
| 40°-50° | 1440.9 | 11.0 |
| 50°-60° | 2540.9 | 19.4 |
| 60°-70° | 3879.3 | 29.7 |
| 70°-80° | 3241.5 | 24.8 |
| 80°-90° | 352.2 | 2.7 |
| 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° | 13067.6 | 100.0 |
| 0°-180° | 13067.6 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P148052

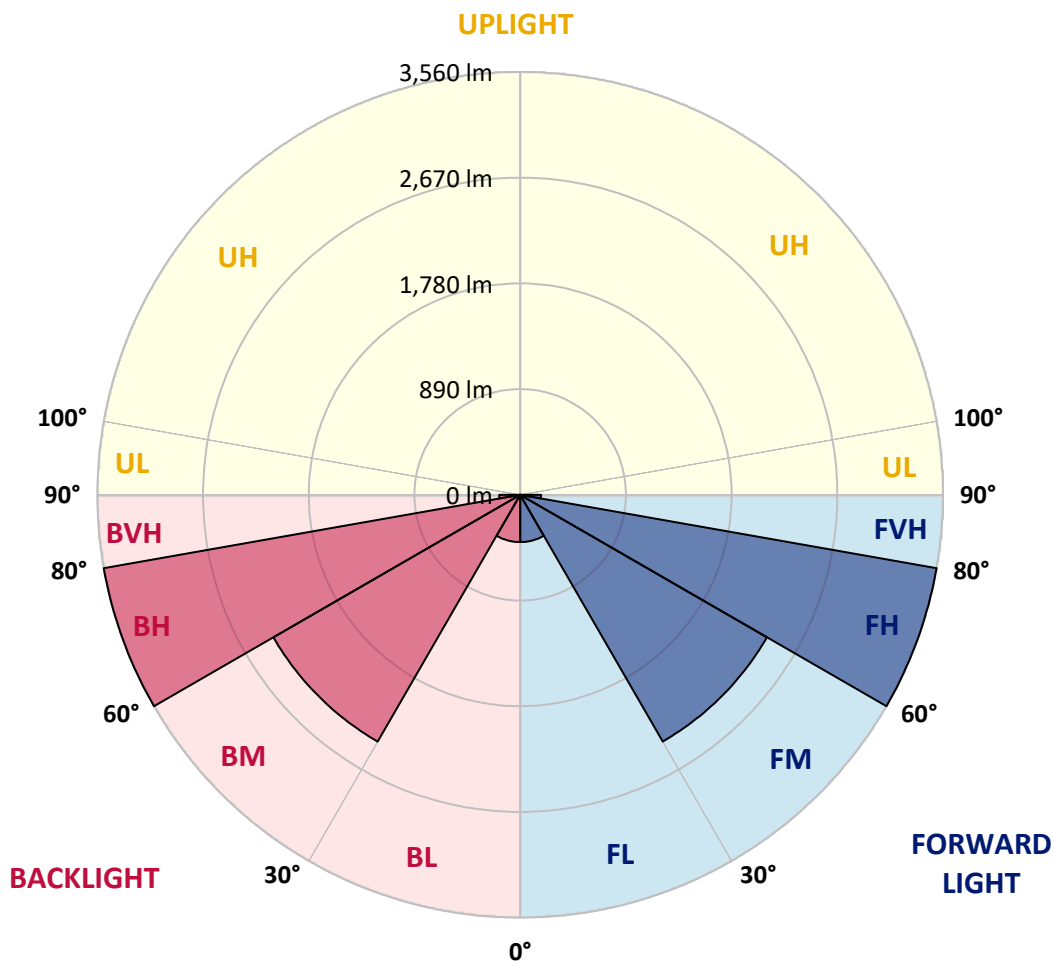
CATALOG NUMBER: AVM-E04-LED-E-U-5WQ-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 398.0 | 3.0 | | | |
| FM | (30°-60°) | 2399.3 | 18.4 | | | |
| FH | (60°-80°) | 3560.4 | 27.2 | | | G2/5000 |
| FVH | (80°-90°) | 176.1 | 1.3 | | | G2/225 |
| BL | (0°-30°) | 398.0 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 2399.3 | 18.4 | B2/2500 | | |
| BH | (60°-80°) | 3560.4 | 27.2 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 176.1 | 1.3 | | | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 678.6 | 678.6 | 678.6 | 678.6 | 678.6 | 678.6 | 678.6 | 678.6 | 678.6 | 678.6 | 678.6 |
| 2.5° | 684.1 | 685.4 | 684.1 | 684.1 | 684.1 | 684.1 | 684.1 | 682.7 | 682.7 | 682.7 | 684.1 |
| 5° | 697.8 | 699.1 | 697.8 | 699.1 | 699.1 | 699.1 | 699.1 | 697.8 | 697.8 | 697.8 | 697.8 |
| 7.5° | 719.6 | 719.6 | 719.6 | 721.0 | 719.6 | 719.6 | 721.0 | 719.6 | 719.6 | 719.6 | 719.6 |
| 10° | 751.1 | 749.7 | 749.7 | 749.7 | 749.7 | 749.7 | 751.1 | 751.1 | 751.1 | 749.7 | 749.7 |
| 12.5° | 789.4 | 788.0 | 789.4 | 789.4 | 790.8 | 790.8 | 790.8 | 790.8 | 790.8 | 790.8 | 789.4 |
| 15° | 835.9 | 835.9 | 835.9 | 837.3 | 840.0 | 840.0 | 838.7 | 840.0 | 840.0 | 840.0 | 840.0 |
| 17.5° | 887.9 | 890.7 | 887.9 | 889.3 | 890.7 | 889.3 | 892.0 | 893.4 | 894.8 | 893.4 | 889.3 |
| 20° | 941.3 | 942.6 | 942.6 | 942.6 | 942.6 | 945.4 | 946.8 | 946.8 | 950.9 | 949.5 | 948.1 |
| 22.5° | 991.9 | 994.6 | 994.6 | 996.0 | 996.0 | 1000.1 | 1000.1 | 1000.1 | 1002.8 | 1005.6 | 1002.8 |
| 25° | 1045.3 | 1043.9 | 1043.9 | 1046.6 | 1048.0 | 1053.5 | 1053.5 | 1056.2 | 1060.3 | 1061.7 | 1058.9 |
| 27.5° | 1093.1 | 1091.8 | 1091.8 | 1095.9 | 1097.2 | 1104.1 | 1104.1 | 1109.6 | 1112.3 | 1113.7 | 1110.9 |
| 30° | 1143.8 | 1143.8 | 1142.4 | 1146.5 | 1150.6 | 1156.1 | 1158.8 | 1164.3 | 1168.4 | 1169.8 | 1167.0 |
| 32.5° | 1204.0 | 1201.2 | 1202.6 | 1205.3 | 1208.1 | 1213.5 | 1217.6 | 1224.5 | 1230.0 | 1231.3 | 1228.6 |
| 35° | 1272.4 | 1268.3 | 1269.6 | 1272.4 | 1276.5 | 1284.7 | 1291.5 | 1295.6 | 1303.8 | 1306.6 | 1301.1 |
| 37.5° | 1347.6 | 1349.0 | 1347.6 | 1354.5 | 1361.3 | 1370.9 | 1379.1 | 1384.6 | 1392.8 | 1396.9 | 1392.8 |
| 40° | 1454.3 | 1450.2 | 1454.3 | 1461.2 | 1472.1 | 1484.4 | 1500.9 | 1505.0 | 1513.2 | 1521.4 | 1511.8 |
| 42.5° | 1592.5 | 1589.8 | 1599.4 | 1604.8 | 1617.1 | 1630.8 | 1651.3 | 1662.3 | 1674.6 | 1680.1 | 1671.9 |
| 45° | 1773.1 | 1773.1 | 1784.1 | 1785.4 | 1804.6 | 1822.4 | 1851.1 | 1864.8 | 1888.0 | 1888.0 | 1888.0 |
| 47.5° | 1972.9 | 1981.1 | 1987.9 | 2001.6 | 2015.3 | 2048.1 | 2076.8 | 2106.9 | 2128.8 | 2131.6 | 2127.5 |
| 50° | 2179.4 | 2187.7 | 2208.2 | 2227.3 | 2257.4 | 2298.5 | 2329.9 | 2369.6 | 2388.8 | 2405.2 | 2399.7 |
| 52.5° | 2407.9 | 2409.3 | 2433.9 | 2458.5 | 2502.3 | 2547.5 | 2598.1 | 2639.1 | 2673.3 | 2688.4 | 2676.1 |
| 55° | 2658.3 | 2661.0 | 2682.9 | 2708.9 | 2758.2 | 2810.2 | 2873.1 | 2915.5 | 2959.3 | 2986.7 | 2966.1 |
| 57.5° | 2929.2 | 2930.6 | 2952.4 | 2983.9 | 3042.7 | 3094.7 | 3154.9 | 3215.1 | 3256.2 | 3280.8 | 3267.1 |
| 60° | 3228.8 | 3235.7 | 3252.1 | 3291.7 | 3347.8 | 3402.6 | 3462.8 | 3516.1 | 3564.0 | 3590.0 | 3576.3 |
| 62.5° | 3549.0 | 3555.8 | 3579.1 | 3610.5 | 3659.8 | 3720.0 | 3777.4 | 3845.8 | 3885.5 | 3914.3 | 3893.7 |
| 65° | 3763.8 | 3776.1 | 3813.0 | 3855.4 | 3927.9 | 4005.9 | 4073.0 | 4166.0 | 4213.9 | 4248.1 | 4228.9 |
| 67.5° | 3777.4 | 3784.3 | 3829.4 | 3893.7 | 3990.9 | 4108.5 | 4245.3 | 4390.4 | 4484.8 | 4529.9 | 4497.1 |
| 69° | 3684.4 | 3694.0 | 3737.8 | 3810.3 | 3918.4 | 4055.2 | 4218.0 | 4398.6 | 4543.6 | 4610.6 | 4579.2 |
| 70° | 3579.1 | 3599.6 | 3647.5 | 3726.8 | 3832.2 | 3975.8 | 4144.1 | 4337.0 | 4506.7 | 4598.3 | 4575.1 |
| 72.5° | 3357.4 | 3362.9 | 3394.4 | 3457.3 | 3538.0 | 3657.0 | 3815.7 | 3997.7 | 4159.1 | 4290.5 | 4309.6 |
| 75° | 2979.8 | 2997.6 | 3020.9 | 3063.3 | 3104.3 | 3190.5 | 3297.2 | 3421.7 | 3516.1 | 3617.4 | 3621.5 |
| 77.5° | 2252.0 | 2305.3 | 2323.1 | 2332.7 | 2350.5 | 2418.9 | 2511.9 | 2620.0 | 2698.0 | 2714.4 | 2711.7 |
| 80° | 1011.1 | 1082.2 | 1098.6 | 1176.6 | 1224.5 | 1338.0 | 1480.3 | 1645.9 | 1756.7 | 1769.0 | 1738.9 |
| 82.5° | 198.4 | 212.1 | 247.6 | 309.2 | 421.4 | 488.4 | 581.5 | 697.8 | 804.5 | 866.0 | 829.1 |
| 85° | 65.7 | 69.8 | 80.7 | 88.9 | 102.6 | 116.3 | 140.9 | 175.1 | 217.5 | 240.8 | 214.8 |
| 87.5° | 26.0 | 26.0 | 30.1 | 32.8 | 35.6 | 35.6 | 35.6 | 32.8 | 31.5 | 26.0 | 23.3 |
| 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: P148052

CATALOG NUMBER: AVM-E04-LED-E-U-5WQ-7060

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 678.6 | 678.6 | 678.6 | 678.6 | 678.6 | 678.6 | 678.6 | 678.6 |
| 2.5° | 682.7 | 682.7 | 682.7 | 682.7 | 682.7 | 682.7 | 682.7 | 682.7 |
| 5° | 697.8 | 696.4 | 696.4 | 695.0 | 695.0 | 695.0 | 695.0 | 695.0 |
| 7.5° | 718.3 | 716.9 | 715.5 | 716.9 | 715.5 | 715.5 | 715.5 | 715.5 |
| 10° | 749.7 | 747.0 | 745.6 | 744.3 | 744.3 | 744.3 | 742.9 | 742.9 |
| 12.5° | 786.7 | 786.7 | 785.3 | 783.9 | 781.2 | 782.6 | 781.2 | 778.5 |
| 15° | 837.3 | 834.6 | 833.2 | 831.8 | 829.1 | 829.1 | 829.1 | 827.7 |
| 17.5° | 887.9 | 885.2 | 885.2 | 881.1 | 879.7 | 879.7 | 879.7 | 881.1 |
| 20° | 944.0 | 939.9 | 937.2 | 934.4 | 931.7 | 933.1 | 930.3 | 933.1 |
| 22.5° | 1000.1 | 994.6 | 991.9 | 987.8 | 983.7 | 983.7 | 982.3 | 979.6 |
| 25° | 1054.8 | 1048.0 | 1045.3 | 1041.2 | 1035.7 | 1035.7 | 1032.9 | 1030.2 |
| 27.5° | 1106.8 | 1100.0 | 1097.2 | 1089.0 | 1083.6 | 1082.2 | 1079.5 | 1078.1 |
| 30° | 1164.3 | 1156.1 | 1152.0 | 1143.8 | 1135.6 | 1134.2 | 1130.1 | 1130.1 |
| 32.5° | 1224.5 | 1216.3 | 1213.5 | 1201.2 | 1194.4 | 1194.4 | 1191.7 | 1188.9 |
| 35° | 1299.7 | 1287.4 | 1284.7 | 1272.4 | 1262.8 | 1262.8 | 1260.1 | 1261.4 |
| 37.5° | 1388.7 | 1379.1 | 1369.5 | 1359.9 | 1349.0 | 1347.6 | 1344.9 | 1342.1 |
| 40° | 1507.7 | 1496.7 | 1485.8 | 1472.1 | 1462.5 | 1459.8 | 1455.7 | 1454.3 |
| 42.5° | 1666.4 | 1655.5 | 1633.6 | 1622.6 | 1613.0 | 1604.8 | 1603.5 | 1602.1 |
| 45° | 1868.9 | 1855.2 | 1840.1 | 1819.6 | 1807.3 | 1789.5 | 1786.8 | 1780.0 |
| 47.5° | 2112.4 | 2086.4 | 2060.4 | 2042.6 | 2023.5 | 2003.0 | 1998.9 | 1987.9 |
| 50° | 2371.0 | 2350.5 | 2306.7 | 2278.0 | 2247.9 | 2227.3 | 2213.7 | 2209.5 |
| 52.5° | 2648.7 | 2610.4 | 2566.6 | 2528.3 | 2484.5 | 2457.2 | 2432.6 | 2425.7 |
| 55° | 2938.8 | 2884.0 | 2829.3 | 2784.2 | 2740.4 | 2707.6 | 2684.3 | 2673.3 |
| 57.5° | 3228.8 | 3168.6 | 3108.4 | 3059.2 | 3022.2 | 2979.8 | 2956.6 | 2951.1 |
| 60° | 3531.2 | 3473.7 | 3412.1 | 3362.9 | 3317.7 | 3280.8 | 3267.1 | 3241.1 |
| 62.5° | 3851.3 | 3791.1 | 3733.7 | 3685.8 | 3628.3 | 3602.3 | 3579.1 | 3564.0 |
| 65° | 4166.0 | 4096.2 | 4023.7 | 3973.1 | 3915.6 | 3878.7 | 3849.9 | 3829.4 |
| 67.5° | 4409.5 | 4304.2 | 4207.0 | 4122.2 | 4044.2 | 3986.8 | 3949.8 | 3930.7 |
| 69° | 4477.9 | 4346.6 | 4222.1 | 4111.3 | 4019.6 | 3955.3 | 3914.3 | 3895.1 |
| 70° | 4469.7 | 4324.7 | 4187.9 | 4066.1 | 3966.2 | 3897.8 | 3858.2 | 3822.6 |
| 72.5° | 4216.6 | 4083.9 | 3932.0 | 3799.3 | 3709.0 | 3643.4 | 3603.7 | 3584.5 |
| 75° | 3598.2 | 3509.3 | 3399.8 | 3297.2 | 3231.5 | 3193.2 | 3144.0 | 3145.4 |
| 77.5° | 2620.0 | 2622.7 | 2548.8 | 2443.5 | 2369.6 | 2355.9 | 2334.0 | 2312.2 |
| 80° | 1625.4 | 1495.4 | 1410.6 | 1297.0 | 1213.5 | 1141.0 | 1109.6 | 1041.2 |
| 82.5° | 749.7 | 585.6 | 454.2 | 343.4 | 264.1 | 206.6 | 180.6 | 147.8 |
| 85° | 166.9 | 127.2 | 105.3 | 84.8 | 72.5 | 67.0 | 54.7 | 50.6 |
| 87.5° | 23.3 | 20.5 | 19.2 | 17.8 | 15.0 | 10.9 | 8.2 | 6.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)