

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: INVUE

Report Number: P154330

Luminaire Tested: **VXM-E03-LED-E1-T2**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P154330  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VXM-E03-LED-E1-T2  
Description: VISION SITE MEDIUM LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2  
Light Source: (63) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9191.6 lumens  
Efficiency: N/A  
Efficacy: 122.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - 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: 25 FT



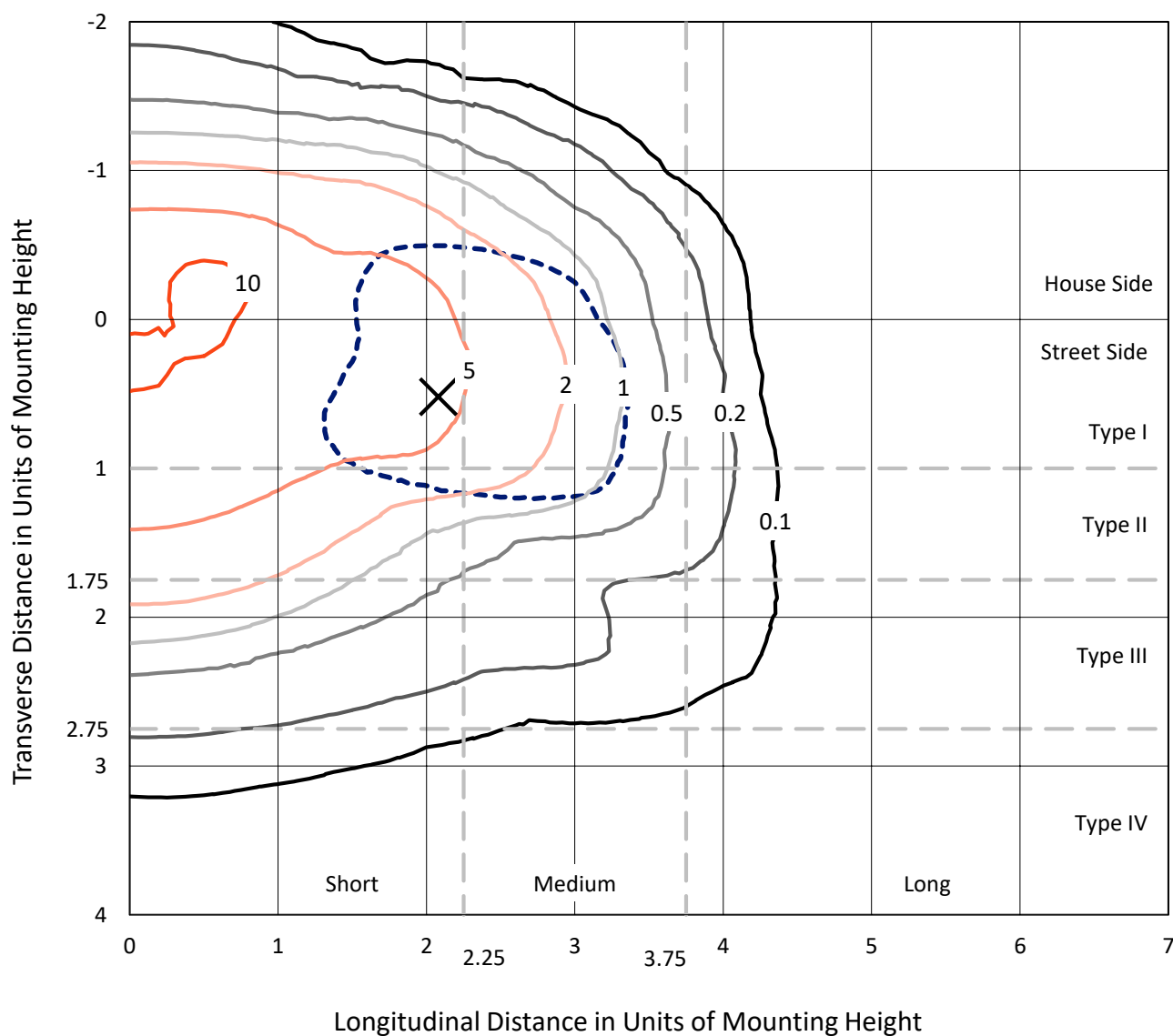
REPORT NUMBER: P154330

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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

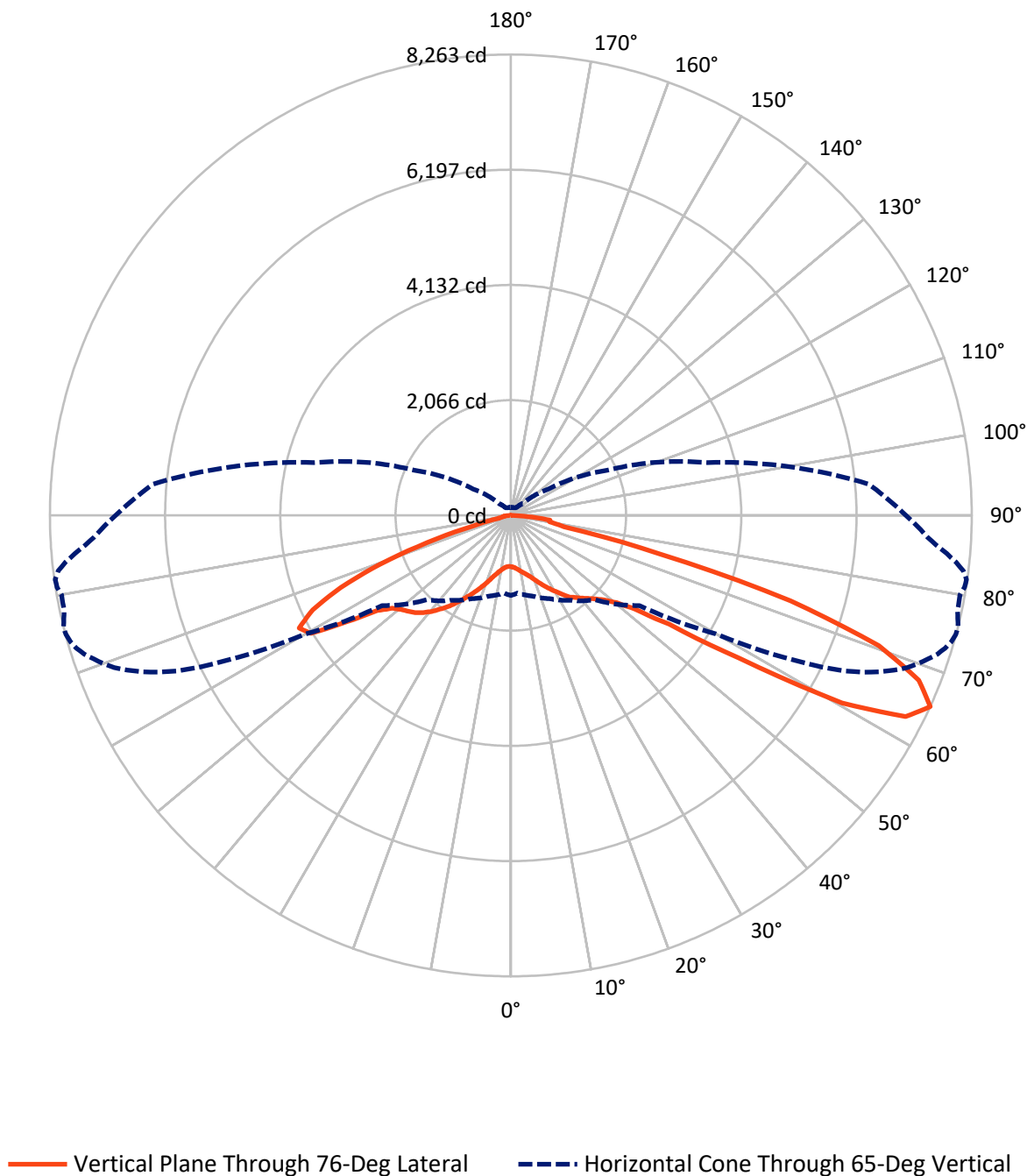


Based on 10 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P154330

CATALOG NUMBER: VXM-E03-LED-E1-T2

## Luminous Intensity Polar Plot



REPORT NUMBER: P154330

CATALOG NUMBER: VXM-E03-LED-E1-T2

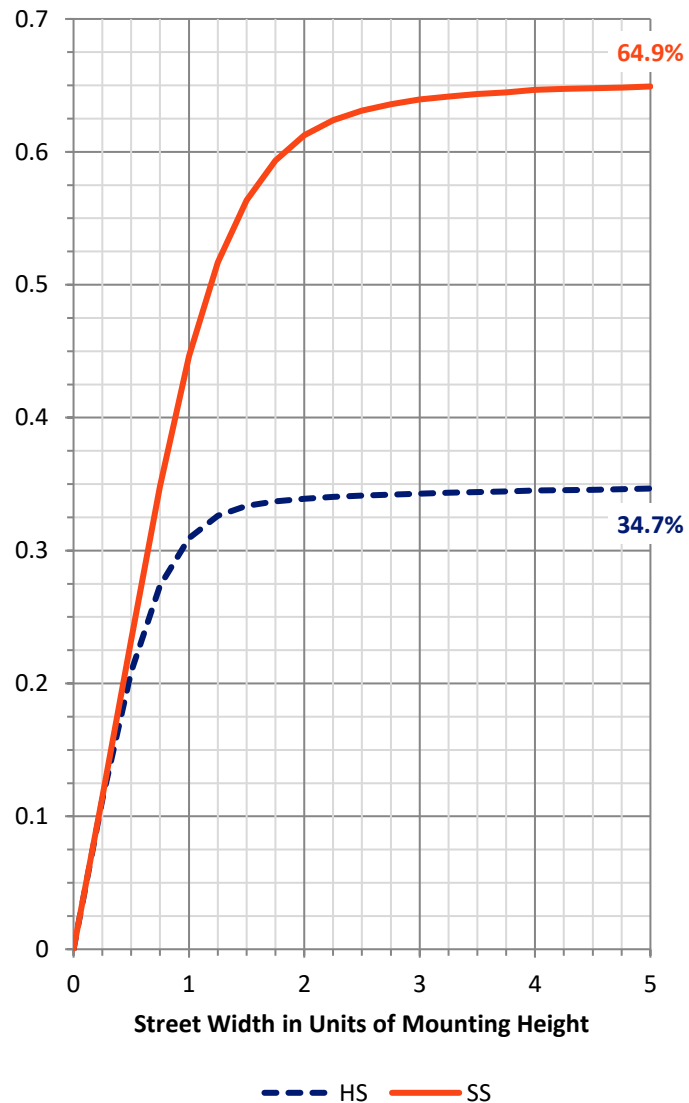
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3218.6   | 0.0    | 3218.6 |
|                    | % Fixture | 35.0     | 0.0    | 35.0   |
| <b>Street Side</b> | Lumens    | 5972.9   | 0.0    | 5972.9 |
|                    | % Fixture | 65.0     | 0.0    | 65.0   |
| <b>Total</b>       | Lumens    | 9191.6   | 0.0    | 9191.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 92.0   | 1.0       |
| 10°-20°   | 316.1  | 3.4       |
| 20°-30°   | 621.0  | 6.8       |
| 30°-40°   | 1031.8 | 11.2      |
| 40°-50°   | 1516.2 | 16.5      |
| 50°-60°   | 2099.1 | 22.8      |
| 60°-70°   | 2505.5 | 27.3      |
| 70°-80°   | 886.1  | 9.6       |
| 80°-90°   | 123.8  | 1.3       |
| 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°    | 9191.6 | 100.0     |
| 0°-180°   | 9191.6 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P154330

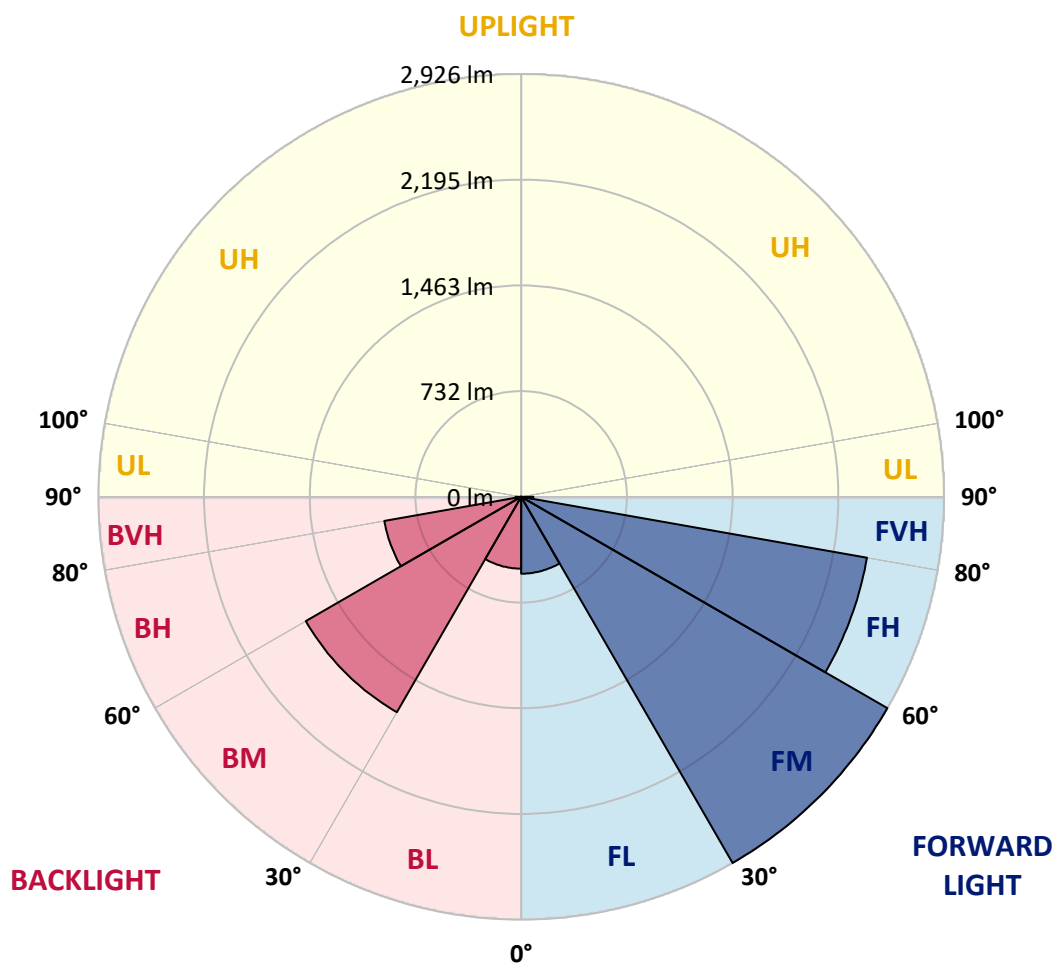
CATALOG NUMBER: VXM-E03-LED-E1-T2

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 531.8  | 5.8       |                         |      |         |
| FM   | (30°-60°)   | 2926.3 | 31.8      |                         |      |         |
| FH   | (60°-80°)   | 2430.1 | 26.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 84.6   | 0.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 497.3  | 5.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1720.8 | 18.7      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 961.4  | 10.5      | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 39.2   | 0.4       |                         |      | 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



REPORT NUMBER: P154330

CATALOG NUMBER: VXM-E03-LED-E1-T2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 60°  | 61°  | 62°  | 64°  |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 919  | 919  | 919  | 919  | 919  | 919  | 919  | 919  | 919  | 919  | 919  |
| 2.5°  | 959  | 960  | 958  | 957  | 954  | 949  | 945  | 941  | 941  | 941  | 938  |
| 5°    | 1001 | 1003 | 999  | 996  | 987  | 982  | 975  | 970  | 968  | 967  | 964  |
| 7.5°  | 1054 | 1051 | 1045 | 1043 | 1036 | 1025 | 1012 | 1002 | 1002 | 1001 | 1002 |
| 10°   | 1107 | 1099 | 1096 | 1093 | 1082 | 1068 | 1053 | 1042 | 1041 | 1040 | 1037 |
| 12.5° | 1160 | 1157 | 1154 | 1143 | 1132 | 1110 | 1093 | 1082 | 1081 | 1082 | 1078 |
| 15°   | 1230 | 1223 | 1220 | 1201 | 1177 | 1153 | 1132 | 1122 | 1119 | 1120 | 1117 |
| 17.5° | 1284 | 1284 | 1277 | 1256 | 1225 | 1192 | 1170 | 1164 | 1163 | 1163 | 1164 |
| 20°   | 1327 | 1326 | 1319 | 1302 | 1265 | 1232 | 1221 | 1219 | 1218 | 1218 | 1221 |
| 22.5° | 1351 | 1349 | 1346 | 1327 | 1298 | 1276 | 1277 | 1283 | 1285 | 1287 | 1291 |
| 25°   | 1363 | 1360 | 1359 | 1346 | 1325 | 1322 | 1340 | 1356 | 1360 | 1364 | 1369 |
| 27.5° | 1383 | 1378 | 1380 | 1375 | 1370 | 1379 | 1416 | 1433 | 1436 | 1441 | 1444 |
| 30°   | 1438 | 1436 | 1444 | 1446 | 1450 | 1463 | 1497 | 1513 | 1520 | 1520 | 1534 |
| 32.5° | 1543 | 1544 | 1546 | 1567 | 1574 | 1583 | 1601 | 1614 | 1615 | 1616 | 1629 |
| 35°   | 1684 | 1690 | 1707 | 1725 | 1742 | 1741 | 1730 | 1737 | 1732 | 1738 | 1739 |
| 37.5° | 1862 | 1854 | 1879 | 1920 | 1946 | 1939 | 1890 | 1858 | 1867 | 1863 | 1860 |
| 40°   | 1999 | 2008 | 2056 | 2110 | 2130 | 2152 | 2088 | 2033 | 2025 | 2010 | 2001 |
| 42.5° | 2188 | 2189 | 2228 | 2268 | 2326 | 2374 | 2333 | 2254 | 2230 | 2212 | 2173 |
| 45°   | 2363 | 2360 | 2392 | 2441 | 2510 | 2579 | 2594 | 2508 | 2499 | 2467 | 2416 |
| 47.5° | 2480 | 2476 | 2498 | 2562 | 2674 | 2787 | 2849 | 2823 | 2806 | 2793 | 2713 |
| 50°   | 2559 | 2551 | 2576 | 2644 | 2769 | 2943 | 3105 | 3127 | 3120 | 3120 | 3069 |
| 52.5° | 2618 | 2618 | 2636 | 2691 | 2818 | 3035 | 3325 | 3436 | 3445 | 3455 | 3452 |
| 55°   | 2585 | 2590 | 2635 | 2715 | 2849 | 3099 | 3507 | 3750 | 3800 | 3842 | 3890 |
| 57.5° | 2472 | 2489 | 2549 | 2680 | 2857 | 3147 | 3709 | 4190 | 4331 | 4453 | 4643 |
| 60°   | 2307 | 2329 | 2416 | 2583 | 2798 | 3069 | 3780 | 4562 | 4786 | 5052 | 5548 |
| 62.5° | 2024 | 2046 | 2131 | 2298 | 2482 | 2770 | 3486 | 4617 | 4975 | 5352 | 6102 |
| 65°   | 1434 | 1399 | 1497 | 1647 | 1858 | 2137 | 2817 | 4248 | 4763 | 5274 | 6200 |
| 67.5° | 799  | 796  | 856  | 968  | 1170 | 1470 | 1941 | 3258 | 3732 | 4311 | 5448 |
| 70°   | 551  | 557  | 595  | 716  | 883  | 1142 | 1383 | 2046 | 2387 | 2780 | 3898 |
| 72.5° | 387  | 400  | 421  | 493  | 664  | 962  | 1413 | 1223 | 1393 | 1661 | 2344 |
| 75°   | 227  | 236  | 251  | 286  | 378  | 643  | 1463 | 1075 | 1075 | 1138 | 1418 |
| 77.5° | 140  | 140  | 149  | 163  | 201  | 315  | 1042 | 1208 | 1174 | 1138 | 1141 |
| 80°   | 72   | 77   | 90   | 97   | 112  | 144  | 468  | 1127 | 1236 | 1309 | 1258 |
| 82.5° | 33   | 37   | 55   | 59   | 65   | 76   | 161  | 641  | 859  | 1131 | 1413 |
| 85°   | 17   | 17   | 29   | 36   | 39   | 35   | 59   | 259  | 392  | 598  | 936  |
| 87.5° | 3    | 3    | 5    | 6    | 9    | 8    | 10   | 15   | 25   | 27   | 28   |
| 90°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

REPORT NUMBER: P154330

CATALOG NUMBER: VXM-E03-LED-E1-T2

**CANDELA DISTRIBUTION (continued):**

|       | 65°  | 66°  | 67°  | 68°  | 69°  | 70°  | 71°  | 72°  | 73°  | 74°  | 75°  |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 919  | 919  | 919  | 919  | 919  | 919  | 919  | 919  | 919  | 919  | 919  |
| 2.5°  | 937  | 938  | 937  | 936  | 934  | 934  | 934  | 933  | 933  | 933  | 932  |
| 5°    | 964  | 960  | 961  | 959  | 958  | 957  | 958  | 956  | 954  | 955  | 954  |
| 7.5°  | 998  | 996  | 992  | 992  | 991  | 989  | 989  | 986  | 985  | 983  | 982  |
| 10°   | 1036 | 1031 | 1033 | 1031 | 1032 | 1028 | 1026 | 1024 | 1022 | 1022 | 1023 |
| 12.5° | 1075 | 1074 | 1071 | 1069 | 1069 | 1066 | 1067 | 1066 | 1063 | 1062 | 1059 |
| 15°   | 1115 | 1115 | 1112 | 1113 | 1112 | 1110 | 1108 | 1108 | 1106 | 1104 | 1105 |
| 17.5° | 1162 | 1162 | 1162 | 1162 | 1163 | 1160 | 1161 | 1159 | 1157 | 1161 | 1161 |
| 20°   | 1223 | 1227 | 1227 | 1226 | 1231 | 1228 | 1227 | 1232 | 1227 | 1234 | 1233 |
| 22.5° | 1293 | 1297 | 1297 | 1301 | 1302 | 1305 | 1307 | 1305 | 1309 | 1313 | 1313 |
| 25°   | 1371 | 1375 | 1378 | 1384 | 1387 | 1385 | 1386 | 1391 | 1393 | 1397 | 1401 |
| 27.5° | 1453 | 1454 | 1458 | 1465 | 1470 | 1472 | 1473 | 1481 | 1482 | 1484 | 1488 |
| 30°   | 1533 | 1543 | 1541 | 1550 | 1553 | 1556 | 1562 | 1565 | 1572 | 1576 | 1576 |
| 32.5° | 1627 | 1625 | 1633 | 1640 | 1645 | 1650 | 1655 | 1659 | 1663 | 1665 | 1675 |
| 35°   | 1744 | 1748 | 1748 | 1749 | 1761 | 1762 | 1766 | 1775 | 1778 | 1784 | 1788 |
| 37.5° | 1860 | 1853 | 1852 | 1852 | 1848 | 1851 | 1852 | 1853 | 1857 | 1858 | 1862 |
| 40°   | 1990 | 1981 | 1973 | 1968 | 1960 | 1949 | 1947 | 1942 | 1945 | 1944 | 1945 |
| 42.5° | 2168 | 2143 | 2124 | 2110 | 2094 | 2082 | 2073 | 2060 | 2051 | 2040 | 2038 |
| 45°   | 2395 | 2348 | 2316 | 2293 | 2270 | 2237 | 2218 | 2198 | 2180 | 2162 | 2147 |
| 47.5° | 2693 | 2643 | 2592 | 2550 | 2514 | 2461 | 2407 | 2377 | 2342 | 2311 | 2289 |
| 50°   | 3044 | 2984 | 2960 | 2901 | 2856 | 2776 | 2709 | 2660 | 2590 | 2543 | 2502 |
| 52.5° | 3403 | 3388 | 3375 | 3325 | 3272 | 3226 | 3167 | 3081 | 3010 | 2956 | 2872 |
| 55°   | 3892 | 3899 | 3894 | 3867 | 3848 | 3804 | 3780 | 3705 | 3673 | 3595 | 3507 |
| 57.5° | 4715 | 4771 | 4842 | 4870 | 4908 | 4872 | 4914 | 4965 | 4838 | 4882 | 4803 |
| 60°   | 5766 | 6023 | 6176 | 6364 | 6487 | 6659 | 6690 | 6735 | 6722 | 6747 | 6798 |
| 62.5° | 6408 | 6713 | 7006 | 7219 | 7447 | 7573 | 7725 | 7831 | 7941 | 8015 | 7994 |
| 65°   | 6597 | 6911 | 7177 | 7410 | 7614 | 7768 | 7909 | 8042 | 8143 | 8214 | 8256 |
| 67.5° | 5903 | 6313 | 6593 | 6866 | 7129 | 7291 | 7409 | 7538 | 7686 | 7809 | 7833 |
| 70°   | 4442 | 5057 | 5454 | 5781 | 6090 | 6308 | 6473 | 6593 | 6708 | 6796 | 6892 |
| 72.5° | 2778 | 3316 | 3770 | 4194 | 4522 | 4822 | 4961 | 5227 | 5192 | 5259 | 5331 |
| 75°   | 1665 | 1927 | 2177 | 2476 | 2648 | 2898 | 2943 | 2987 | 2964 | 2889 | 2945 |
| 77.5° | 1157 | 1200 | 1198 | 1181 | 1163 | 1119 | 1062 | 1031 | 1010 | 980  | 992  |
| 80°   | 1164 | 1071 | 929  | 781  | 645  | 555  | 519  | 519  | 556  | 609  | 662  |
| 82.5° | 1391 | 1292 | 1152 | 964  | 764  | 622  | 527  | 489  | 496  | 550  | 618  |
| 85°   | 938  | 960  | 842  | 770  | 610  | 475  | 398  | 323  | 286  | 295  | 334  |
| 87.5° | 34   | 41   | 15   | 20   | 14   | 12   | 12   | 13   | 9    | 11   | 10   |
| 90°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |



REPORT NUMBER: P154330

CATALOG NUMBER: VXM-E03-LED-E1-T2

**CANDELA DISTRIBUTION (continued):**

|       | 76°  | 77°  | 78°  | 79°  | 80°  | 81°  | 82°  | 83°  | 84°  | 85°  | 86°  |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 919  | 919  | 919  | 919  | 919  | 919  | 919  | 919  | 919  | 919  | 919  |
| 2.5°  | 931  | 930  | 930  | 928  | 928  | 927  | 927  | 926  | 925  | 925  | 924  |
| 5°    | 953  | 952  | 950  | 949  | 947  | 947  | 946  | 944  | 944  | 942  | 941  |
| 7.5°  | 984  | 982  | 980  | 979  | 978  | 975  | 975  | 973  | 973  | 971  | 970  |
| 10°   | 1021 | 1019 | 1017 | 1018 | 1015 | 1014 | 1012 | 1012 | 1009 | 1008 | 1008 |
| 12.5° | 1061 | 1060 | 1060 | 1057 | 1056 | 1055 | 1051 | 1051 | 1051 | 1049 | 1050 |
| 15°   | 1104 | 1105 | 1102 | 1105 | 1104 | 1101 | 1101 | 1101 | 1097 | 1102 | 1098 |
| 17.5° | 1162 | 1165 | 1163 | 1164 | 1162 | 1162 | 1163 | 1162 | 1164 | 1164 | 1170 |
| 20°   | 1234 | 1235 | 1240 | 1238 | 1238 | 1237 | 1239 | 1240 | 1244 | 1242 | 1246 |
| 22.5° | 1313 | 1318 | 1319 | 1323 | 1323 | 1322 | 1324 | 1328 | 1330 | 1333 | 1332 |
| 25°   | 1403 | 1406 | 1410 | 1405 | 1413 | 1413 | 1415 | 1420 | 1421 | 1421 | 1428 |
| 27.5° | 1487 | 1495 | 1496 | 1501 | 1498 | 1500 | 1507 | 1510 | 1514 | 1514 | 1516 |
| 30°   | 1582 | 1585 | 1587 | 1593 | 1592 | 1593 | 1594 | 1599 | 1599 | 1604 | 1609 |
| 32.5° | 1680 | 1682 | 1684 | 1690 | 1692 | 1696 | 1694 | 1698 | 1703 | 1704 | 1707 |
| 35°   | 1797 | 1799 | 1801 | 1810 | 1811 | 1818 | 1820 | 1818 | 1826 | 1821 | 1826 |
| 37.5° | 1865 | 1874 | 1876 | 1882 | 1880 | 1885 | 1888 | 1892 | 1894 | 1898 | 1906 |
| 40°   | 1948 | 1951 | 1957 | 1960 | 1964 | 1965 | 1969 | 1972 | 1975 | 1984 | 1993 |
| 42.5° | 2033 | 2037 | 2040 | 2044 | 2049 | 2053 | 2056 | 2065 | 2067 | 2073 | 2090 |
| 45°   | 2136 | 2134 | 2135 | 2136 | 2138 | 2143 | 2152 | 2161 | 2167 | 2181 | 2195 |
| 47.5° | 2264 | 2251 | 2246 | 2238 | 2240 | 2251 | 2253 | 2268 | 2280 | 2293 | 2310 |
| 50°   | 2458 | 2423 | 2402 | 2381 | 2379 | 2385 | 2393 | 2409 | 2423 | 2440 | 2464 |
| 52.5° | 2784 | 2717 | 2675 | 2617 | 2601 | 2598 | 2592 | 2601 | 2605 | 2628 | 2673 |
| 55°   | 3444 | 3320 | 3240 | 3150 | 3066 | 3041 | 2993 | 3003 | 2993 | 3007 | 3074 |
| 57.5° | 4822 | 4723 | 4645 | 4530 | 4386 | 4233 | 4195 | 4038 | 4069 | 4159 | 4101 |
| 60°   | 6823 | 6787 | 6731 | 6676 | 6479 | 6368 | 6187 | 6167 | 6040 | 6041 | 5958 |
| 62.5° | 7943 | 7989 | 7955 | 7939 | 7928 | 7893 | 7803 | 7695 | 7533 | 7416 | 7244 |
| 65°   | 8263 | 8224 | 8187 | 8182 | 8179 | 8236 | 8249 | 8173 | 8026 | 7844 | 7646 |
| 67.5° | 7890 | 7868 | 7870 | 7828 | 7854 | 7953 | 8022 | 8001 | 7866 | 7646 | 7394 |
| 70°   | 7002 | 6959 | 7003 | 7058 | 7097 | 7154 | 7223 | 7240 | 7117 | 6891 | 6634 |
| 72.5° | 5243 | 5250 | 5292 | 5307 | 5464 | 5448 | 5510 | 5308 | 5219 | 5004 | 4872 |
| 75°   | 2759 | 2714 | 2831 | 2583 | 2481 | 2552 | 2353 | 2162 | 2202 | 2235 | 1997 |
| 77.5° | 975  | 912  | 805  | 762  | 634  | 537  | 439  | 396  | 373  | 361  | 346  |
| 80°   | 700  | 720  | 698  | 646  | 549  | 440  | 347  | 274  | 235  | 214  | 200  |
| 82.5° | 708  | 787  | 822  | 807  | 719  | 544  | 359  | 229  | 170  | 142  | 132  |
| 85°   | 380  | 416  | 400  | 337  | 303  | 181  | 124  | 83   | 70   | 64   | 59   |
| 87.5° | 15   | 12   | 10   | 10   | 11   | 12   | 10   | 11   | 10   | 10   | 10   |
| 90°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

REPORT NUMBER: P154330

CATALOG NUMBER: VXM-E03-LED-E1-T2

**CANDELA DISTRIBUTION (continued):**

|       | 87°  | 88°  | 89°  | 90°  | 95°  | 105° | 115° | 125° | 135° | 145° | 155° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 919  | 919  | 919  | 919  | 919  | 919  | 919  | 919  | 919  | 919  | 919  |
| 2.5°  | 922  | 922  | 922  | 921  | 919  | 914  | 909  | 905  | 902  | 899  | 895  |
| 5°    | 940  | 938  | 938  | 938  | 930  | 922  | 915  | 908  | 902  | 897  | 893  |
| 7.5°  | 970  | 969  | 965  | 964  | 958  | 945  | 937  | 925  | 918  | 911  | 909  |
| 10°   | 1006 | 1005 | 1004 | 1003 | 995  | 982  | 972  | 961  | 951  | 941  | 931  |
| 12.5° | 1048 | 1047 | 1046 | 1043 | 1040 | 1033 | 1022 | 1010 | 998  | 977  | 966  |
| 15°   | 1100 | 1102 | 1100 | 1099 | 1097 | 1098 | 1091 | 1074 | 1055 | 1028 | 1005 |
| 17.5° | 1169 | 1167 | 1166 | 1170 | 1169 | 1174 | 1172 | 1150 | 1121 | 1078 | 1038 |
| 20°   | 1245 | 1245 | 1249 | 1252 | 1261 | 1274 | 1268 | 1241 | 1188 | 1128 | 1076 |
| 22.5° | 1336 | 1338 | 1342 | 1340 | 1354 | 1375 | 1377 | 1339 | 1270 | 1187 | 1114 |
| 25°   | 1431 | 1433 | 1429 | 1435 | 1458 | 1488 | 1494 | 1440 | 1349 | 1241 | 1146 |
| 27.5° | 1521 | 1523 | 1523 | 1531 | 1553 | 1604 | 1610 | 1550 | 1429 | 1288 | 1169 |
| 30°   | 1609 | 1617 | 1619 | 1621 | 1654 | 1725 | 1738 | 1651 | 1499 | 1323 | 1185 |
| 32.5° | 1720 | 1723 | 1727 | 1732 | 1770 | 1857 | 1857 | 1738 | 1544 | 1345 | 1188 |
| 35°   | 1839 | 1840 | 1849 | 1850 | 1904 | 1991 | 1974 | 1810 | 1576 | 1340 | 1166 |
| 37.5° | 1911 | 1915 | 1924 | 1936 | 1993 | 2116 | 2077 | 1872 | 1582 | 1307 | 1116 |
| 40°   | 2000 | 2008 | 2017 | 2029 | 2114 | 2243 | 2164 | 1911 | 1557 | 1242 | 1041 |
| 42.5° | 2096 | 2107 | 2121 | 2143 | 2244 | 2355 | 2230 | 1917 | 1500 | 1169 | 952  |
| 45°   | 2204 | 2224 | 2240 | 2266 | 2380 | 2452 | 2270 | 1882 | 1428 | 1073 | 857  |
| 47.5° | 2329 | 2345 | 2373 | 2401 | 2515 | 2518 | 2274 | 1814 | 1330 | 977  | 756  |
| 50°   | 2483 | 2493 | 2535 | 2552 | 2659 | 2587 | 2245 | 1722 | 1227 | 869  | 644  |
| 52.5° | 2688 | 2702 | 2756 | 2782 | 2858 | 2681 | 2204 | 1622 | 1109 | 748  | 529  |
| 55°   | 3093 | 3154 | 3192 | 3237 | 3286 | 2894 | 2186 | 1515 | 976  | 608  | 419  |
| 57.5° | 4230 | 4210 | 4294 | 4396 | 4395 | 3381 | 2294 | 1423 | 819  | 465  | 322  |
| 60°   | 5924 | 5943 | 5900 | 5961 | 5767 | 3985 | 2442 | 1326 | 642  | 346  | 246  |
| 62.5° | 7183 | 7073 | 7012 | 6940 | 6513 | 4051 | 2334 | 1127 | 467  | 243  | 189  |
| 65°   | 7481 | 7352 | 7221 | 7084 | 6440 | 3652 | 1915 | 827  | 302  | 167  | 150  |
| 67.5° | 7187 | 6980 | 6813 | 6672 | 5901 | 3027 | 1400 | 508  | 173  | 135  | 128  |
| 70°   | 6425 | 6196 | 5926 | 5768 | 4969 | 2231 | 897  | 274  | 133  | 120  | 117  |
| 72.5° | 4703 | 4515 | 4220 | 4039 | 3568 | 1356 | 501  | 154  | 124  | 115  | 111  |
| 75°   | 1832 | 1734 | 1611 | 1621 | 1447 | 600  | 227  | 133  | 121  | 113  | 109  |
| 77.5° | 315  | 307  | 284  | 284  | 323  | 219  | 151  | 134  | 120  | 111  | 104  |
| 80°   | 189  | 185  | 176  | 174  | 168  | 154  | 145  | 136  | 118  | 105  | 96   |
| 82.5° | 124  | 119  | 116  | 115  | 125  | 135  | 136  | 135  | 112  | 91   | 78   |
| 85°   | 53   | 53   | 53   | 54   | 72   | 109  | 112  | 120  | 92   | 71   | 56   |
| 87.5° | 9    | 11   | 11   | 12   | 13   | 24   | 30   | 39   | 31   | 30   | 27   |
| 90°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

REPORT NUMBER: P154330

CATALOG NUMBER: VXM-E03-LED-E1-T2

**CANDELA DISTRIBUTION (continued):**

|       | 165° | 175° | 180° |
|-------|------|------|------|
| 0°    | 919  | 919  | 919  |
| 2.5°  | 894  | 892  | 892  |
| 5°    | 891  | 889  | 890  |
| 7.5°  | 903  | 899  | 900  |
| 10°   | 925  | 921  | 919  |
| 12.5° | 953  | 948  | 948  |
| 15°   | 982  | 970  | 969  |
| 17.5° | 1006 | 991  | 989  |
| 20°   | 1033 | 1013 | 1010 |
| 22.5° | 1058 | 1031 | 1027 |
| 25°   | 1076 | 1043 | 1038 |
| 27.5° | 1084 | 1045 | 1041 |
| 30°   | 1090 | 1046 | 1040 |
| 32.5° | 1084 | 1037 | 1032 |
| 35°   | 1051 | 1000 | 997  |
| 37.5° | 994  | 937  | 933  |
| 40°   | 919  | 859  | 849  |
| 42.5° | 823  | 767  | 756  |
| 45°   | 730  | 666  | 661  |
| 47.5° | 630  | 569  | 572  |
| 50°   | 525  | 470  | 469  |
| 52.5° | 425  | 377  | 374  |
| 55°   | 335  | 301  | 298  |
| 57.5° | 265  | 247  | 244  |
| 60°   | 216  | 207  | 204  |
| 62.5° | 174  | 171  | 170  |
| 65°   | 145  | 145  | 145  |
| 67.5° | 126  | 127  | 127  |
| 70°   | 116  | 117  | 116  |
| 72.5° | 112  | 115  | 115  |
| 75°   | 109  | 111  | 107  |
| 77.5° | 107  | 108  | 101  |
| 80°   | 106  | 105  | 92   |
| 82.5° | 92   | 89   | 78   |
| 85°   | 84   | 64   | 54   |
| 87.5° | 43   | 30   | 23   |
| 90°   | 0    | 0    | 0    |

(END OF REPORT)