

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: P141160

Luminaire Tested: **CEM-E03-LED-E-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P141160  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33691)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CEM-E03-LED-E-U-SL3  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (63) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

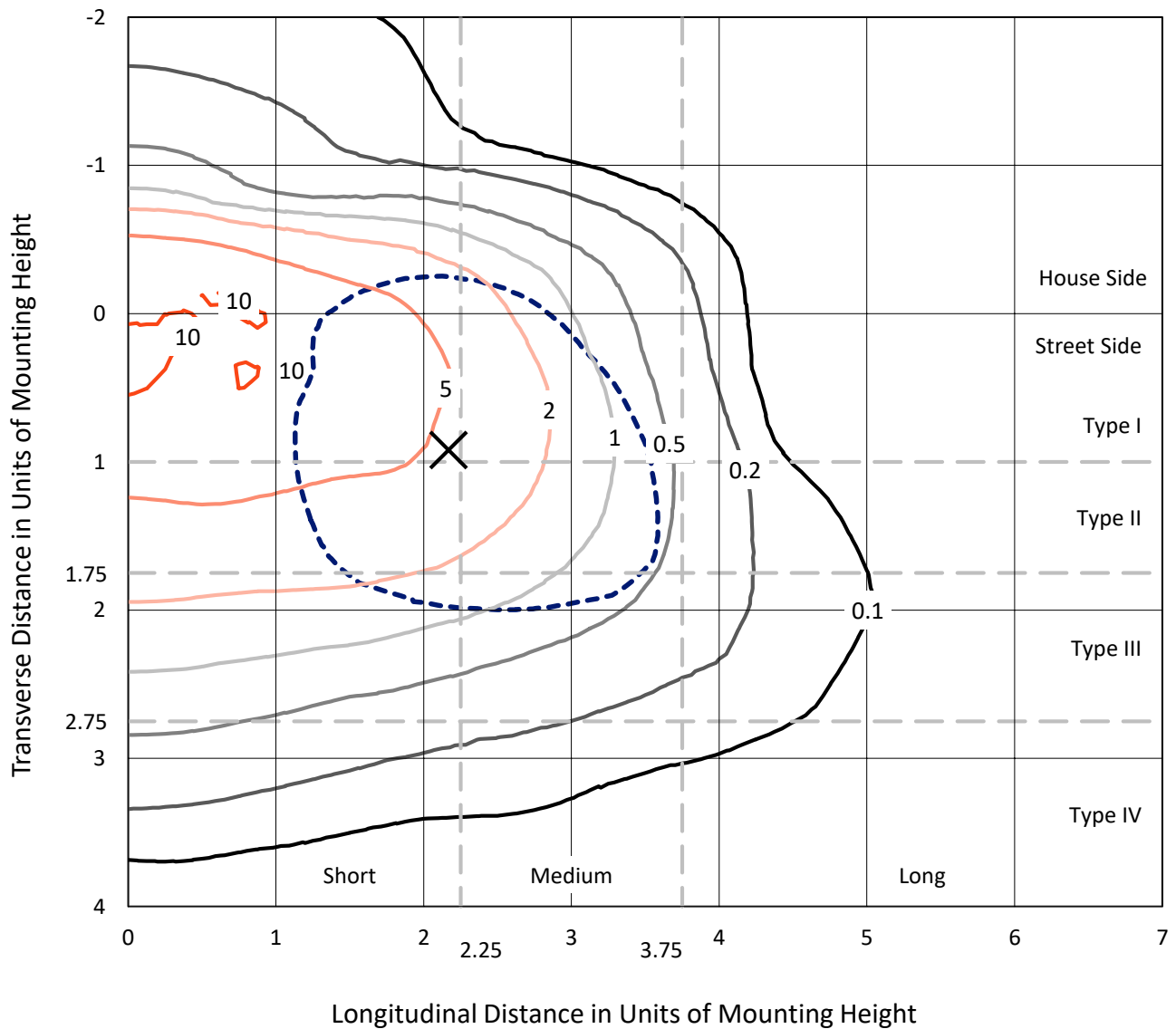
Lumens per Lamp: N/A  
Luminaire Lumens: 8681.6 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P141160  
 CATALOG NUMBER: CEM-E03-LED-E-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

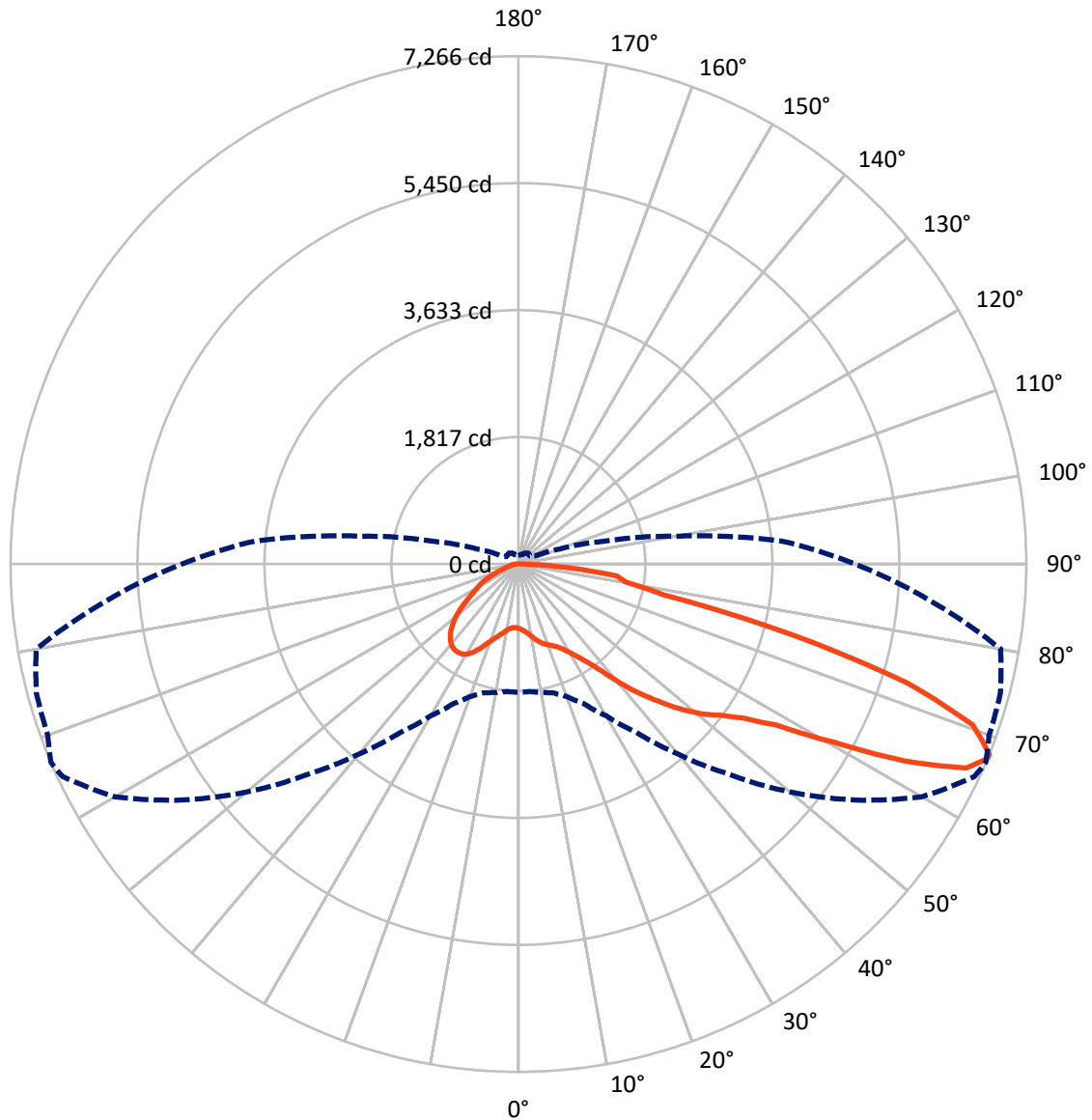
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 fc  
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P141160  
CATALOG NUMBER: CEM-E03-LED-E-U-SL3

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical



REPORT NUMBER: P141160

CATALOG NUMBER: CEM-E03-LED-E-U-SL3

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1997.2   | 0.0    | 1997.2 |
|                    | % Fixture | 23.0     | 0.0    | 23.0   |
| <b>Street Side</b> | Lumens    | 6684.4   | 0.0    | 6684.4 |
|                    | % Fixture | 77.0     | 0.0    | 77.0   |
| <b>Total</b>       | Lumens    | 8681.6   | 0.0    | 8681.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 92.3   | 1.1       |
| 10°-20°   | 319.2  | 3.7       |
| 20°-30°   | 568.2  | 6.5       |
| 30°-40°   | 817.0  | 9.4       |
| 40°-50°   | 1245.1 | 14.3      |
| 50°-60°   | 1818.7 | 20.9      |
| 60°-70°   | 2450.6 | 28.2      |
| 70°-80°   | 1203.2 | 13.9      |
| 80°-90°   | 167.3  | 1.9       |
| 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°    | 8681.6 | 100.0     |
| 0°-180°   | 8681.6 | 100.0     |



REPORT NUMBER: P141160

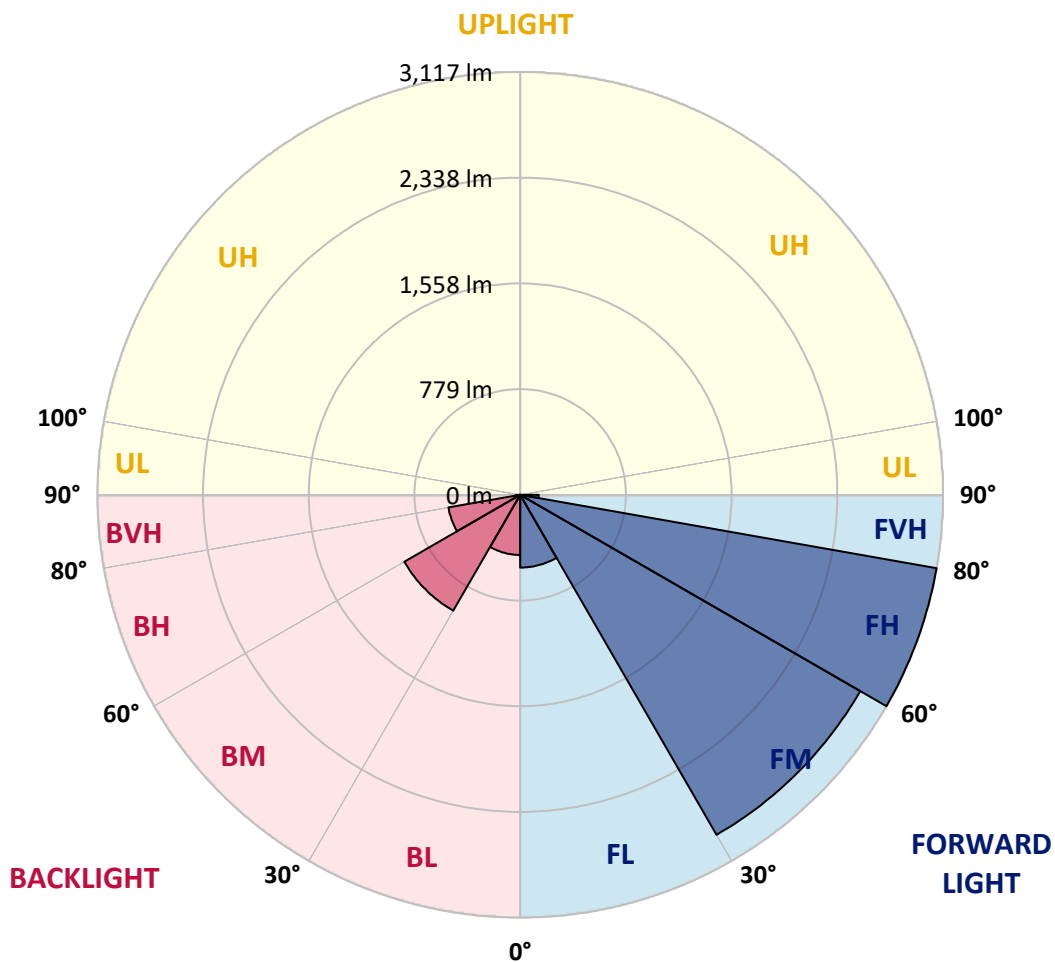
CATALOG NUMBER: CEM-E03-LED-E-U-SL3

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 536.3  | 6.2       |                         |      |         |
| FM   | (30°-60°)   | 2894.3 | 33.3      |                         |      |         |
| FH   | (60°-80°)   | 3116.7 | 35.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 137.2  | 1.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 443.5  | 5.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 986.5  | 11.4      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 537.0  | 6.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 30.1   | 0.3       |                         |      | 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 III Short





REPORT NUMBER: P141160

CATALOG NUMBER: CEM-E03-LED-E-U-SL3

**CANDELA DISTRIBUTION (FULL):**

|       | 0°   | 5°   | 10°  | 15°  | 20°  | 25°  | 30°  | 35°  | 40°  | 45°  | 50°  |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 921  | 921  | 921  | 921  | 921  | 921  | 921  | 921  | 921  | 921  | 921  |
| 2.5°  | 969  | 964  | 968  | 967  | 964  | 960  | 962  | 959  | 957  | 954  | 951  |
| 5°    | 1032 | 1029 | 1027 | 1024 | 1022 | 1019 | 1017 | 1012 | 1005 | 1000 | 996  |
| 7.5°  | 1094 | 1093 | 1090 | 1086 | 1078 | 1076 | 1069 | 1064 | 1058 | 1048 | 1040 |
| 10°   | 1167 | 1166 | 1161 | 1155 | 1146 | 1137 | 1129 | 1117 | 1105 | 1096 | 1089 |
| 12.5° | 1255 | 1250 | 1240 | 1232 | 1222 | 1208 | 1195 | 1181 | 1164 | 1150 | 1142 |
| 15°   | 1343 | 1337 | 1329 | 1318 | 1303 | 1284 | 1265 | 1244 | 1218 | 1200 | 1189 |
| 17.5° | 1415 | 1411 | 1402 | 1387 | 1372 | 1349 | 1324 | 1295 | 1263 | 1236 | 1219 |
| 20°   | 1467 | 1463 | 1449 | 1431 | 1411 | 1385 | 1358 | 1326 | 1288 | 1255 | 1236 |
| 22.5° | 1489 | 1483 | 1467 | 1443 | 1416 | 1384 | 1355 | 1328 | 1293 | 1268 | 1248 |
| 25°   | 1496 | 1489 | 1468 | 1438 | 1403 | 1362 | 1329 | 1308 | 1287 | 1278 | 1271 |
| 27.5° | 1492 | 1486 | 1463 | 1426 | 1379 | 1331 | 1296 | 1281 | 1282 | 1299 | 1307 |
| 30°   | 1478 | 1471 | 1450 | 1409 | 1359 | 1307 | 1276 | 1271 | 1294 | 1337 | 1369 |
| 32.5° | 1455 | 1450 | 1433 | 1398 | 1353 | 1308 | 1286 | 1297 | 1337 | 1404 | 1459 |
| 35°   | 1449 | 1448 | 1440 | 1421 | 1388 | 1359 | 1350 | 1381 | 1447 | 1539 | 1609 |
| 37.5° | 1448 | 1453 | 1457 | 1457 | 1450 | 1448 | 1475 | 1518 | 1616 | 1731 | 1845 |
| 40°   | 1468 | 1477 | 1497 | 1523 | 1548 | 1584 | 1639 | 1720 | 1822 | 1962 | 2104 |
| 42.5° | 1530 | 1550 | 1584 | 1629 | 1694 | 1761 | 1850 | 1951 | 2082 | 2223 | 2364 |
| 45°   | 1651 | 1680 | 1705 | 1776 | 1862 | 1941 | 2057 | 2190 | 2334 | 2511 | 2663 |
| 47.5° | 1811 | 1832 | 1884 | 1959 | 2064 | 2177 | 2289 | 2405 | 2578 | 2763 | 2947 |
| 50°   | 1971 | 1987 | 2042 | 2130 | 2268 | 2392 | 2520 | 2635 | 2784 | 2980 | 3160 |
| 52.5° | 2090 | 2112 | 2160 | 2246 | 2401 | 2542 | 2688 | 2815 | 2983 | 3159 | 3347 |
| 55°   | 2172 | 2186 | 2230 | 2314 | 2460 | 2621 | 2786 | 2942 | 3142 | 3341 | 3528 |
| 57.5° | 2185 | 2199 | 2239 | 2313 | 2455 | 2624 | 2813 | 3004 | 3246 | 3509 | 3754 |
| 60°   | 2170 | 2181 | 2216 | 2277 | 2411 | 2596 | 2821 | 3061 | 3359 | 3698 | 4048 |
| 62.5° | 2103 | 2114 | 2146 | 2196 | 2315 | 2515 | 2797 | 3145 | 3520 | 3946 | 4459 |
| 65°   | 1977 | 1984 | 2014 | 2054 | 2174 | 2377 | 2688 | 3128 | 3647 | 4227 | 4891 |
| 67°   | 1834 | 1831 | 1865 | 1905 | 2015 | 2202 | 2506 | 2939 | 3546 | 4249 | 5072 |
| 67.5° | 1790 | 1798 | 1831 | 1859 | 1966 | 2147 | 2438 | 2866 | 3460 | 4199 | 5069 |
| 70°   | 1478 | 1493 | 1511 | 1529 | 1623 | 1756 | 1970 | 2384 | 2864 | 3564 | 4602 |
| 72.5° | 1014 | 984  | 997  | 991  | 1020 | 1104 | 1253 | 1617 | 1998 | 2600 | 3416 |
| 75°   | 514  | 547  | 543  | 568  | 609  | 662  | 731  | 867  | 1166 | 1520 | 2114 |
| 77.5° | 288  | 280  | 308  | 314  | 338  | 394  | 516  | 695  | 832  | 977  | 1195 |
| 80°   | 131  | 145  | 154  | 140  | 145  | 157  | 204  | 320  | 538  | 819  | 942  |
| 82.5° | 73   | 78   | 91   | 92   | 96   | 99   | 107  | 124  | 167  | 338  | 665  |
| 85°   | 46   | 48   | 61   | 67   | 70   | 70   | 70   | 74   | 85   | 100  | 172  |
| 87.5° | 17   | 18   | 28   | 37   | 38   | 36   | 34   | 39   | 36   | 37   | 56   |
| 90°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |



REPORT NUMBER: P141160

CATALOG NUMBER: CEM-E03-LED-E-U-SL3

**CANDELA DISTRIBUTION (continued):**

|       | 55°  | 60°  | 65°  | 67°  | 70°  | 75°  | 80°  | 85°  | 90°  | 95°  | 100° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 921  | 921  | 921  | 921  | 921  | 921  | 921  | 921  | 921  | 921  | 921  |
| 2.5°  | 949  | 945  | 941  | 940  | 937  | 935  | 930  | 926  | 922  | 919  | 916  |
| 5°    | 987  | 979  | 972  | 969  | 965  | 960  | 950  | 943  | 937  | 931  | 925  |
| 7.5°  | 1030 | 1020 | 1010 | 1006 | 1000 | 991  | 980  | 972  | 962  | 953  | 945  |
| 10°   | 1078 | 1067 | 1059 | 1055 | 1050 | 1037 | 1030 | 1016 | 1005 | 993  | 983  |
| 12.5° | 1130 | 1125 | 1114 | 1110 | 1105 | 1096 | 1086 | 1074 | 1060 | 1047 | 1035 |
| 15°   | 1177 | 1169 | 1162 | 1161 | 1158 | 1153 | 1140 | 1127 | 1115 | 1098 | 1088 |
| 17.5° | 1206 | 1203 | 1202 | 1201 | 1199 | 1196 | 1190 | 1176 | 1165 | 1151 | 1137 |
| 20°   | 1224 | 1227 | 1232 | 1236 | 1238 | 1240 | 1237 | 1223 | 1212 | 1200 | 1188 |
| 22.5° | 1243 | 1251 | 1264 | 1270 | 1277 | 1287 | 1285 | 1276 | 1270 | 1256 | 1247 |
| 25°   | 1270 | 1286 | 1308 | 1316 | 1329 | 1342 | 1345 | 1340 | 1334 | 1324 | 1324 |
| 27.5° | 1316 | 1339 | 1368 | 1385 | 1398 | 1416 | 1422 | 1419 | 1420 | 1414 | 1428 |
| 30°   | 1388 | 1420 | 1459 | 1477 | 1493 | 1514 | 1518 | 1524 | 1520 | 1531 | 1548 |
| 32.5° | 1497 | 1537 | 1577 | 1594 | 1608 | 1630 | 1643 | 1639 | 1653 | 1660 | 1684 |
| 35°   | 1665 | 1705 | 1736 | 1739 | 1755 | 1767 | 1779 | 1775 | 1813 | 1828 | 1841 |
| 37.5° | 1897 | 1931 | 1950 | 1943 | 1924 | 1947 | 1963 | 1987 | 2011 | 2038 | 1990 |
| 40°   | 2198 | 2252 | 2244 | 2234 | 2198 | 2203 | 2210 | 2223 | 2263 | 2254 | 2117 |
| 42.5° | 2484 | 2539 | 2530 | 2519 | 2471 | 2446 | 2465 | 2488 | 2510 | 2425 | 2221 |
| 45°   | 2773 | 2823 | 2780 | 2795 | 2752 | 2741 | 2778 | 2791 | 2766 | 2610 | 2309 |
| 47.5° | 3073 | 3127 | 3106 | 3091 | 3060 | 3057 | 3078 | 3098 | 2999 | 2744 | 2375 |
| 50°   | 3303 | 3383 | 3372 | 3363 | 3329 | 3325 | 3375 | 3389 | 3211 | 2886 | 2441 |
| 52.5° | 3480 | 3584 | 3604 | 3592 | 3584 | 3586 | 3730 | 3709 | 3463 | 3058 | 2518 |
| 55°   | 3689 | 3797 | 3870 | 3885 | 3905 | 3934 | 4219 | 4188 | 3811 | 3306 | 2599 |
| 57.5° | 3966 | 4166 | 4276 | 4344 | 4399 | 4587 | 4949 | 4830 | 4293 | 3626 | 2695 |
| 60°   | 4374 | 4771 | 4999 | 5172 | 5281 | 5609 | 6048 | 5610 | 4853 | 4010 | 2821 |
| 62.5° | 5029 | 5677 | 6113 | 6211 | 6257 | 6569 | 6883 | 6207 | 5257 | 4264 | 2841 |
| 65°   | 5664 | 6474 | 6983 | 7040 | 7006 | 7090 | 7178 | 6225 | 5163 | 4144 | 2607 |
| 67°   | 5888 | 6662 | 7197 | 7266 | 7166 | 7139 | 7005 | 5897 | 4812 | 3776 | 2281 |
| 67.5° | 5876 | 6640 | 7195 | 7265 | 7166 | 7123 | 6926 | 5765 | 4674 | 3686 | 2218 |
| 70°   | 5416 | 6150 | 6768 | 6899 | 6844 | 6730 | 6206 | 4883 | 3873 | 3024 | 1710 |
| 72.5° | 4397 | 5190 | 5680 | 5825 | 5864 | 5571 | 4622 | 3418 | 2792 | 2161 | 1240 |
| 75°   | 2952 | 3740 | 4141 | 4068 | 3831 | 3332 | 2440 | 1803 | 1530 | 1257 | 767  |
| 77.5° | 1674 | 2282 | 2251 | 2125 | 1925 | 1425 | 692  | 375  | 358  | 418  | 325  |
| 80°   | 1118 | 1407 | 1503 | 1552 | 1541 | 1054 | 286  | 145  | 125  | 125  | 123  |
| 82.5° | 933  | 1216 | 1377 | 1420 | 1323 | 801  | 171  | 95   | 76   | 85   | 95   |
| 85°   | 393  | 613  | 811  | 780  | 620  | 312  | 87   | 50   | 50   | 66   | 83   |
| 87.5° | 95   | 141  | 199  | 193  | 155  | 72   | 44   | 31   | 31   | 51   | 72   |
| 90°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |





REPORT NUMBER: P141160

CATALOG NUMBER: CEM-E03-LED-E-U-SL3

**CANDELA DISTRIBUTION (continued):**

|       | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 921  | 921  | 921  | 921  | 921  | 921  | 921  | 921  | 921  | 921  | 921  |
| 2.5°  | 915  | 911  | 911  | 907  | 905  | 903  | 902  | 903  | 900  | 897  | 898  |
| 5°    | 920  | 914  | 911  | 904  | 900  | 896  | 893  | 892  | 887  | 884  | 884  |
| 7.5°  | 937  | 929  | 923  | 915  | 907  | 901  | 896  | 893  | 886  | 881  | 880  |
| 10°   | 972  | 961  | 952  | 940  | 929  | 921  | 912  | 907  | 899  | 894  | 892  |
| 12.5° | 1024 | 1008 | 994  | 976  | 963  | 951  | 946  | 938  | 935  | 932  | 933  |
| 15°   | 1073 | 1054 | 1041 | 1027 | 1012 | 1005 | 995  | 994  | 995  | 990  | 990  |
| 17.5° | 1123 | 1108 | 1093 | 1088 | 1074 | 1069 | 1062 | 1058 | 1049 | 1040 | 1029 |
| 20°   | 1175 | 1167 | 1161 | 1155 | 1152 | 1140 | 1122 | 1101 | 1072 | 1046 | 1024 |
| 22.5° | 1242 | 1237 | 1238 | 1233 | 1217 | 1187 | 1146 | 1102 | 1055 | 1013 | 980  |
| 25°   | 1327 | 1332 | 1326 | 1301 | 1255 | 1194 | 1131 | 1069 | 1007 | 957  | 912  |
| 27.5° | 1435 | 1431 | 1403 | 1339 | 1260 | 1173 | 1092 | 1018 | 944  | 886  | 830  |
| 30°   | 1553 | 1524 | 1451 | 1351 | 1240 | 1135 | 1035 | 949  | 863  | 795  | 732  |
| 32.5° | 1672 | 1589 | 1471 | 1337 | 1205 | 1081 | 969  | 868  | 769  | 693  | 620  |
| 35°   | 1762 | 1629 | 1468 | 1307 | 1152 | 1010 | 880  | 755  | 640  | 549  | 475  |
| 37.5° | 1845 | 1651 | 1448 | 1261 | 1079 | 916  | 754  | 619  | 503  | 412  | 348  |
| 40°   | 1896 | 1649 | 1409 | 1185 | 978  | 778  | 602  | 463  | 361  | 294  | 259  |
| 42.5° | 1926 | 1628 | 1342 | 1084 | 839  | 623  | 444  | 319  | 257  | 228  | 212  |
| 45°   | 1941 | 1583 | 1259 | 949  | 671  | 445  | 306  | 230  | 205  | 197  | 193  |
| 47.5° | 1932 | 1520 | 1140 | 797  | 500  | 305  | 219  | 194  | 186  | 182  | 181  |
| 50°   | 1911 | 1438 | 1015 | 632  | 355  | 219  | 184  | 177  | 174  | 173  | 171  |
| 52.5° | 1881 | 1341 | 872  | 490  | 252  | 182  | 172  | 169  | 167  | 164  | 163  |
| 55°   | 1831 | 1221 | 726  | 361  | 202  | 172  | 167  | 166  | 162  | 159  | 157  |
| 57.5° | 1771 | 1093 | 588  | 283  | 186  | 168  | 165  | 164  | 160  | 156  | 152  |
| 60°   | 1741 | 1003 | 484  | 245  | 183  | 170  | 168  | 166  | 161  | 155  | 150  |
| 62.5° | 1667 | 906  | 417  | 233  | 187  | 177  | 176  | 172  | 165  | 159  | 151  |
| 65°   | 1476 | 769  | 355  | 221  | 193  | 188  | 190  | 185  | 177  | 167  | 154  |
| 67°   | 1247 | 625  | 300  | 212  | 200  | 203  | 206  | 203  | 190  | 175  | 158  |
| 67.5° | 1185 | 582  | 285  | 209  | 202  | 206  | 211  | 208  | 194  | 177  | 160  |
| 70°   | 891  | 417  | 226  | 198  | 209  | 220  | 230  | 229  | 215  | 194  | 167  |
| 72.5° | 616  | 285  | 183  | 185  | 203  | 223  | 236  | 242  | 228  | 203  | 171  |
| 75°   | 371  | 182  | 154  | 167  | 185  | 205  | 226  | 228  | 212  | 187  | 160  |
| 77.5° | 182  | 131  | 127  | 132  | 149  | 166  | 175  | 164  | 154  | 137  | 127  |
| 80°   | 110  | 103  | 101  | 112  | 122  | 119  | 112  | 103  | 98   | 94   | 90   |
| 82.5° | 92   | 93   | 95   | 97   | 95   | 84   | 72   | 66   | 62   | 62   | 63   |
| 85°   | 94   | 96   | 88   | 81   | 72   | 60   | 49   | 42   | 43   | 44   | 44   |
| 87.5° | 73   | 70   | 62   | 51   | 41   | 30   | 24   | 20   | 22   | 21   | 23   |
| 90°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |



REPORT NUMBER: P141160

CATALOG NUMBER: CEM-E03-LED-E-U-SL3

**CANDELA DISTRIBUTION (continued):**

|       | 160° | 165° | 170° | 175° | 180° |
|-------|------|------|------|------|------|
| 0°    | 921  | 921  | 921  | 921  | 921  |
| 2.5°  | 898  | 897  | 898  | 898  | 899  |
| 5°    | 882  | 880  | 880  | 881  | 881  |
| 7.5°  | 878  | 876  | 876  | 877  | 876  |
| 10°   | 892  | 891  | 893  | 892  | 892  |
| 12.5° | 934  | 934  | 938  | 940  | 938  |
| 15°   | 991  | 989  | 992  | 993  | 994  |
| 17.5° | 1023 | 1014 | 1011 | 1013 | 1009 |
| 20°   | 1005 | 990  | 984  | 983  | 976  |
| 22.5° | 954  | 932  | 923  | 919  | 911  |
| 25°   | 882  | 856  | 844  | 834  | 829  |
| 27.5° | 796  | 764  | 747  | 739  | 736  |
| 30°   | 688  | 657  | 632  | 619  | 615  |
| 32.5° | 568  | 523  | 497  | 481  | 470  |
| 35°   | 424  | 381  | 362  | 350  | 336  |
| 37.5° | 308  | 282  | 266  | 258  | 255  |
| 40°   | 238  | 225  | 217  | 216  | 215  |
| 42.5° | 206  | 200  | 199  | 197  | 195  |
| 45°   | 190  | 188  | 189  | 186  | 184  |
| 47.5° | 179  | 178  | 178  | 176  | 175  |
| 50°   | 170  | 170  | 169  | 168  | 168  |
| 52.5° | 162  | 163  | 163  | 161  | 161  |
| 55°   | 155  | 155  | 156  | 155  | 155  |
| 57.5° | 150  | 149  | 150  | 150  | 150  |
| 60°   | 147  | 145  | 144  | 145  | 145  |
| 62.5° | 144  | 141  | 140  | 140  | 141  |
| 65°   | 144  | 139  | 137  | 137  | 136  |
| 67°   | 145  | 137  | 133  | 131  | 130  |
| 67.5° | 145  | 136  | 131  | 130  | 129  |
| 70°   | 145  | 132  | 125  | 120  | 120  |
| 72.5° | 144  | 128  | 117  | 112  | 110  |
| 75°   | 137  | 121  | 111  | 105  | 103  |
| 77.5° | 115  | 105  | 100  | 95   | 94   |
| 80°   | 87   | 82   | 78   | 67   | 62   |
| 82.5° | 62   | 59   | 52   | 48   | 45   |
| 85°   | 44   | 41   | 38   | 34   | 34   |
| 87.5° | 24   | 23   | 22   | 20   | 18   |
| 90°   | 0    | 0    | 0    | 0    | 0    |

(END OF REPORT)