

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: McGRAW-EDISON

Report Number: P197740

Luminaire Tested: **TT-C4-LED-E1-5WQ-PM-LWR-LW-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197740  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115483)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-C4-LED-E1-5WQ-PM-LWR-LW-7060  
Description: TOPTIER LED AREA/SITE LUMINAIRE  
WIDE DISTRIBUTION WITH LumaWatt WIRELESS SENSOR  
Light Source: (160) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6149.1 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 58  
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: 25 FT

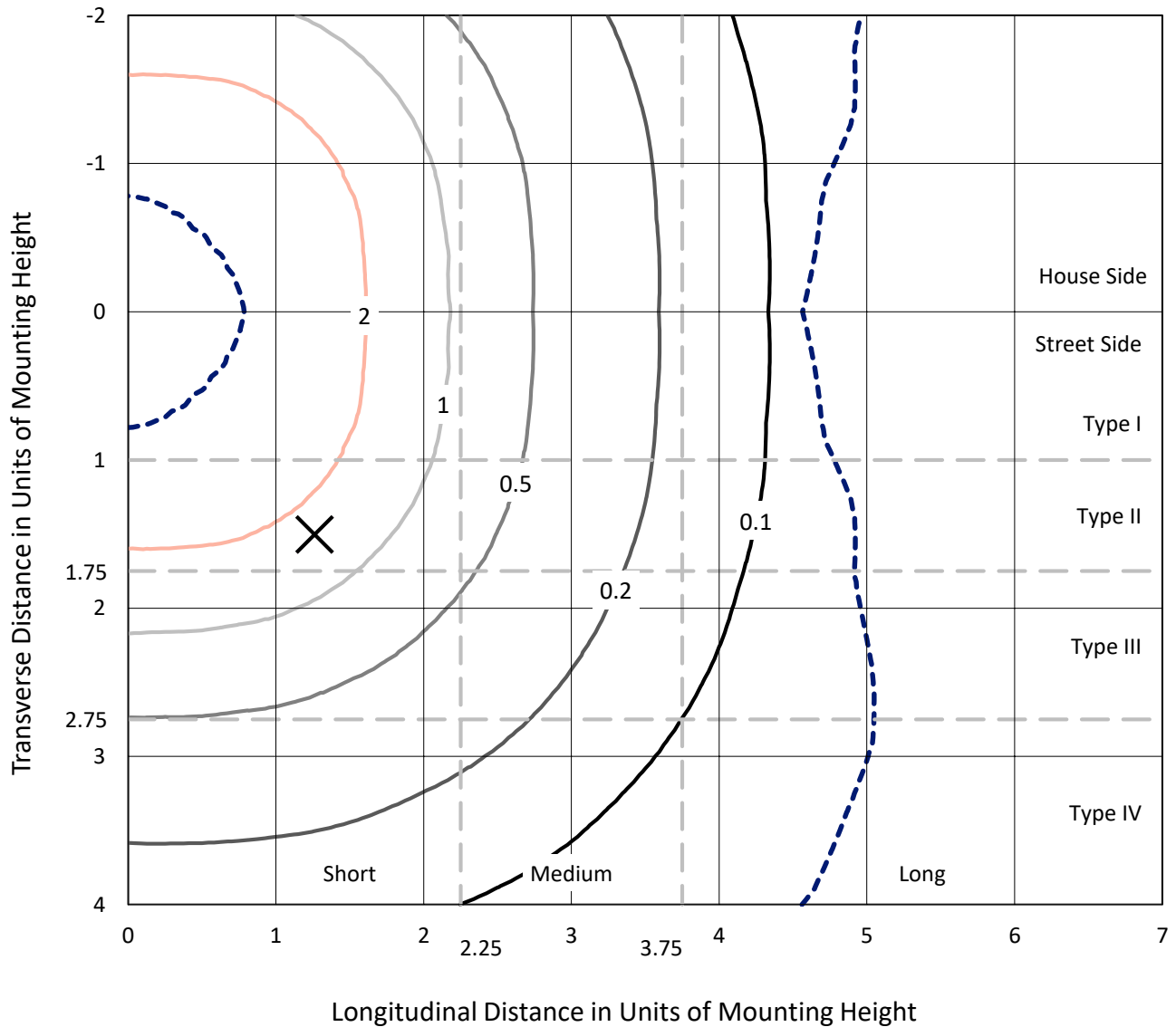


REPORT NUMBER: P197740

CATALOG NUMBER: TT-C4-LED-E1-5WQ-PM-LWR-LW-7060

### Iso-Footcandle Lines of Horizontal Illumination

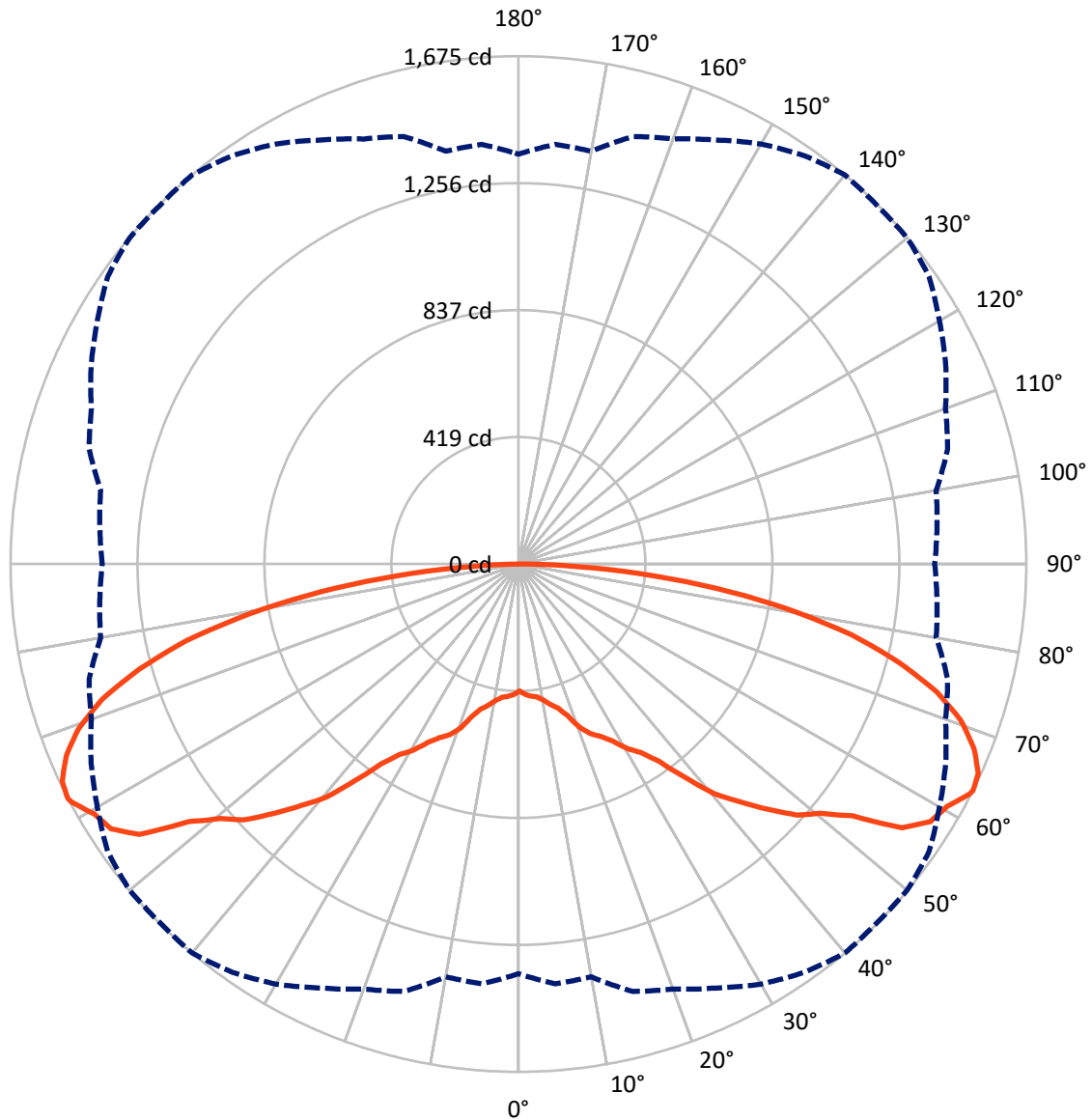
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc  
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197740  
CATALOG NUMBER: TT-C4-LED-E1-5WQ-PM-LWR-LW-7060

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P197740

CATALOG NUMBER: TT-C4-LED-E1-5WQ-PM-LWR-LW-7060

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3074.6   | 0.0    | 3074.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3074.6   | 0.0    | 3074.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6149.1   | 0.0    | 6149.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 42.2   | 0.7       |
| 10°-20°   | 143.7  | 2.3       |
| 20°-30°   | 292.1  | 4.7       |
| 30°-40°   | 503.4  | 8.2       |
| 40°-50°   | 847.9  | 13.8      |
| 50°-60°   | 1248.6 | 20.3      |
| 60°-70°   | 1484.8 | 24.1      |
| 70°-80°   | 1202.0 | 19.5      |
| 80°-90°   | 384.6  | 6.3       |
| 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°    | 6149.1 | 100.0     |
| 0°-180°   | 6149.1 | 100.0     |



REPORT NUMBER: P197740

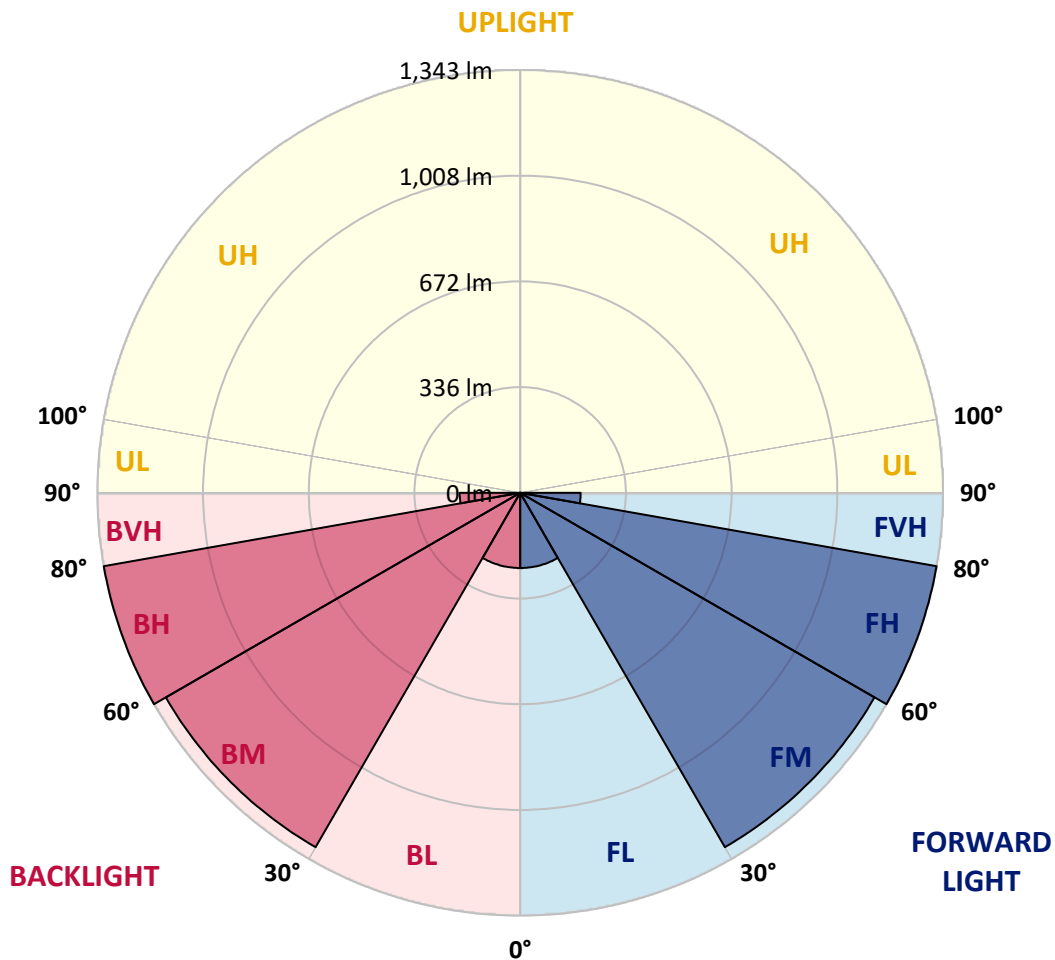
CATALOG NUMBER: TT-C4-LED-E1-5WQ-PM-LWR-LW-7060

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 239.0  | 3.9       |                         |      |         |
| FM (30°-60°)   | 1299.9 | 21.1      |                         |      |         |
| FH (60°-80°)   | 1343.4 | 21.8      |                         |      | G1/1800 |
| FVH (80°-90°)  | 192.3  | 3.1       |                         |      | G2/225  |
| BL (0°-30°)    | 239.0  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 1299.9 | 21.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 1343.4 | 21.8      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 192.3  | 3.1       |                         |      | G2/225  |
| 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: P197740

CATALOG NUMBER: TT-C4-LED-E1-5WQ-PM-LWR-LW-7060

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 418.6  | 418.6  | 418.6  | 418.6  | 418.6  | 418.6  | 418.6  | 418.6  | 418.6  | 418.6  | 418.6  |
| 2.5°  | 431.8  | 431.8  | 431.8  | 431.8  | 431.8  | 431.8  | 430.5  | 431.8  | 430.5  | 430.5  | 430.5  |
| 5°    | 440.1  | 440.1  | 440.1  | 440.1  | 438.8  | 438.8  | 437.7  | 437.7  | 437.7  | 436.5  | 437.7  |
| 7.5°  | 443.6  | 443.6  | 443.6  | 443.6  | 442.5  | 442.5  | 442.5  | 442.5  | 442.5  | 442.5  | 442.5  |
| 10°   | 452.0  | 452.0  | 453.2  | 454.3  | 456.7  | 456.7  | 456.7  | 458.0  | 456.7  | 456.7  | 456.7  |
| 12.5° | 469.8  | 468.6  | 471.0  | 473.3  | 475.8  | 477.0  | 477.0  | 477.0  | 475.8  | 475.8  | 477.0  |
| 15°   | 494.8  | 492.3  | 493.7  | 494.8  | 496.0  | 497.2  | 497.2  | 496.0  | 493.7  | 493.7  | 493.7  |
| 17.5° | 526.9  | 523.3  | 522.2  | 521.0  | 521.0  | 523.3  | 525.7  | 524.5  | 525.7  | 524.5  | 525.7  |
| 20°   | 565.0  | 562.5  | 562.5  | 562.5  | 563.7  | 568.5  | 573.3  | 575.7  | 574.5  | 572.0  | 575.7  |
| 22.5° | 589.9  | 591.2  | 597.0  | 595.9  | 594.7  | 599.5  | 605.4  | 610.2  | 607.7  | 604.2  | 606.5  |
| 25°   | 617.4  | 617.4  | 625.6  | 629.2  | 625.6  | 625.6  | 628.0  | 631.6  | 629.2  | 626.9  | 629.2  |
| 27.5° | 648.2  | 648.2  | 651.7  | 655.4  | 653.0  | 653.0  | 656.6  | 662.5  | 661.2  | 660.1  | 661.2  |
| 30°   | 685.1  | 680.4  | 676.7  | 682.7  | 688.7  | 689.9  | 693.4  | 702.9  | 705.3  | 704.1  | 706.6  |
| 32.5° | 719.6  | 712.4  | 714.9  | 718.4  | 731.4  | 736.2  | 735.1  | 742.2  | 740.9  | 737.4  | 742.2  |
| 35°   | 752.9  | 761.2  | 765.9  | 773.1  | 777.9  | 783.8  | 783.8  | 796.9  | 799.3  | 795.8  | 799.3  |
| 37.5° | 817.1  | 820.6  | 833.8  | 834.9  | 840.9  | 863.5  | 865.9  | 883.8  | 893.3  | 888.5  | 889.6  |
| 40°   | 905.1  | 904.0  | 913.5  | 927.7  | 939.6  | 968.2  | 976.5  | 988.3  | 996.7  | 993.2  | 997.8  |
| 42.5° | 976.5  | 967.0  | 974.2  | 1005.0 | 1018.2 | 1039.5 | 1050.2 | 1056.2 | 1071.7 | 1066.9 | 1072.9 |
| 45°   | 1027.7 | 1031.2 | 1040.7 | 1071.7 | 1080.0 | 1097.9 | 1122.7 | 1133.5 | 1153.7 | 1147.7 | 1151.4 |
| 47.5° | 1077.5 | 1094.2 | 1102.5 | 1116.9 | 1143.0 | 1166.7 | 1197.7 | 1208.4 | 1236.9 | 1234.6 | 1231.1 |
| 50°   | 1143.0 | 1156.1 | 1165.6 | 1176.2 | 1212.1 | 1251.3 | 1277.4 | 1282.1 | 1291.6 | 1284.6 | 1296.4 |
| 52.5° | 1213.2 | 1212.1 | 1220.3 | 1250.1 | 1300.0 | 1315.4 | 1338.1 | 1359.5 | 1379.6 | 1386.8 | 1379.6 |
| 55°   | 1305.9 | 1276.3 | 1310.8 | 1353.5 | 1375.0 | 1411.8 | 1466.5 | 1496.3 | 1535.5 | 1541.5 | 1529.5 |
| 57.5° | 1344.0 | 1344.0 | 1379.6 | 1404.6 | 1444.0 | 1509.3 | 1567.7 | 1581.9 | 1602.1 | 1591.4 | 1603.4 |
| 60°   | 1339.3 | 1384.5 | 1384.5 | 1428.5 | 1492.7 | 1551.0 | 1572.4 | 1596.2 | 1623.5 | 1622.4 | 1622.4 |
| 62.5° | 1345.3 | 1389.2 | 1377.3 | 1453.5 | 1492.7 | 1540.2 | 1587.9 | 1631.9 | 1669.9 | 1668.7 | 1667.6 |
| 63°   | 1351.1 | 1389.2 | 1382.1 | 1459.3 | 1491.5 | 1542.7 | 1599.7 | 1643.7 | 1674.7 | 1672.2 | 1673.4 |
| 65°   | 1369.0 | 1358.3 | 1401.1 | 1449.8 | 1486.7 | 1562.9 | 1610.4 | 1644.9 | 1666.4 | 1665.2 | 1665.2 |
| 67.5° | 1335.6 | 1310.8 | 1371.3 | 1390.5 | 1460.6 | 1528.4 | 1565.2 | 1604.5 | 1619.9 | 1619.9 | 1617.6 |
| 70°   | 1233.4 | 1244.1 | 1285.8 | 1316.6 | 1388.0 | 1448.7 | 1479.7 | 1529.5 | 1548.5 | 1548.5 | 1547.4 |
| 72.5° | 1129.9 | 1147.7 | 1176.2 | 1220.3 | 1288.1 | 1335.6 | 1372.6 | 1417.8 | 1442.7 | 1441.5 | 1441.5 |
| 75°   | 997.8  | 1014.5 | 1047.9 | 1089.5 | 1148.9 | 1195.4 | 1225.1 | 1267.9 | 1296.4 | 1307.1 | 1295.3 |
| 77.5° | 849.3  | 854.0  | 885.0  | 927.7  | 980.0  | 1012.2 | 1057.4 | 1099.0 | 1122.7 | 1121.6 | 1118.0 |
| 80°   | 668.4  | 674.4  | 700.6  | 749.3  | 777.9  | 815.9  | 857.6  | 880.1  | 900.3  | 900.3  | 898.0  |
| 82.5° | 461.5  | 474.5  | 500.7  | 532.8  | 562.5  | 595.9  | 618.5  | 641.1  | 657.7  | 656.6  | 653.0  |
| 85°   | 260.4  | 266.4  | 291.4  | 311.6  | 334.3  | 355.6  | 371.1  | 385.3  | 399.6  | 399.6  | 397.3  |
| 87.5° | 78.5   | 70.2   | 84.5   | 92.7   | 104.7  | 115.4  | 122.5  | 136.7  | 146.2  | 135.6  | 135.6  |
| 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: P197740

CATALOG NUMBER: TT-C4-LED-E1-5WQ-PM-LWR-LW-7060

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 418.6  | 418.6  | 418.6  | 418.6  | 418.6  | 418.6  | 418.6  | 418.6  |
| 2.5°  | 431.8  | 431.8  | 431.8  | 431.8  | 431.8  | 431.8  | 431.8  | 431.8  |
| 5°    | 437.7  | 438.8  | 438.8  | 440.1  | 440.1  | 440.1  | 440.1  | 440.1  |
| 7.5°  | 442.5  | 442.5  | 442.5  | 442.5  | 443.6  | 443.6  | 443.6  | 443.6  |
| 10°   | 456.7  | 458.0  | 456.7  | 456.7  | 454.3  | 453.2  | 453.2  | 453.2  |
| 12.5° | 477.0  | 478.2  | 478.2  | 475.8  | 473.3  | 471.0  | 469.8  | 468.6  |
| 15°   | 496.0  | 499.5  | 497.2  | 496.0  | 493.7  | 494.8  | 494.8  | 496.0  |
| 17.5° | 525.7  | 526.9  | 523.3  | 521.0  | 519.8  | 522.2  | 524.5  | 525.7  |
| 20°   | 576.9  | 574.5  | 567.4  | 565.0  | 562.5  | 562.5  | 565.0  | 565.0  |
| 22.5° | 609.0  | 603.0  | 598.2  | 595.9  | 595.9  | 595.9  | 592.4  | 587.5  |
| 25°   | 631.6  | 628.0  | 624.4  | 626.9  | 629.2  | 625.6  | 617.4  | 616.1  |
| 27.5° | 662.5  | 655.4  | 654.2  | 653.0  | 654.2  | 651.7  | 650.6  | 645.9  |
| 30°   | 702.9  | 693.4  | 691.1  | 688.7  | 681.6  | 679.1  | 681.6  | 685.1  |
| 32.5° | 740.9  | 735.1  | 737.4  | 732.7  | 719.6  | 714.9  | 717.2  | 716.1  |
| 35°   | 795.8  | 784.9  | 784.9  | 775.4  | 771.9  | 770.8  | 761.2  | 752.9  |
| 37.5° | 882.5  | 868.3  | 864.6  | 843.3  | 833.8  | 836.1  | 823.1  | 813.6  |
| 40°   | 988.3  | 977.7  | 968.2  | 944.3  | 931.3  | 914.6  | 906.3  | 906.3  |
| 42.5° | 1058.5 | 1051.4 | 1038.3 | 1021.7 | 1007.4 | 978.8  | 968.2  | 974.2  |
| 45°   | 1135.9 | 1126.4 | 1099.0 | 1082.4 | 1069.2 | 1049.0 | 1037.2 | 1025.2 |
| 47.5° | 1214.4 | 1201.2 | 1169.2 | 1147.7 | 1116.9 | 1110.9 | 1097.9 | 1081.2 |
| 50°   | 1283.4 | 1278.6 | 1255.9 | 1220.3 | 1181.1 | 1171.6 | 1159.7 | 1144.2 |
| 52.5° | 1367.8 | 1339.3 | 1320.3 | 1304.8 | 1260.8 | 1229.9 | 1213.2 | 1220.3 |
| 55°   | 1505.8 | 1470.1 | 1421.3 | 1372.6 | 1363.1 | 1326.1 | 1284.6 | 1307.1 |
| 57.5° | 1585.5 | 1565.2 | 1528.4 | 1451.0 | 1413.0 | 1388.0 | 1360.6 | 1340.4 |
| 60°   | 1604.5 | 1567.7 | 1559.3 | 1501.0 | 1440.3 | 1388.0 | 1398.8 | 1351.1 |
| 62.5° | 1641.4 | 1591.4 | 1545.0 | 1498.7 | 1461.8 | 1390.5 | 1388.0 | 1363.1 |
| 63°   | 1653.2 | 1603.4 | 1554.5 | 1498.7 | 1465.3 | 1398.8 | 1385.6 | 1372.6 |
| 65°   | 1650.9 | 1608.0 | 1571.2 | 1498.7 | 1448.7 | 1422.5 | 1358.3 | 1388.0 |
| 67.5° | 1605.7 | 1570.0 | 1527.2 | 1477.2 | 1394.0 | 1373.8 | 1328.6 | 1334.5 |
| 70°   | 1533.2 | 1486.7 | 1446.3 | 1400.0 | 1333.3 | 1286.9 | 1259.6 | 1236.9 |
| 72.5° | 1420.1 | 1378.5 | 1335.6 | 1292.9 | 1233.4 | 1177.5 | 1158.4 | 1133.5 |
| 75°   | 1270.3 | 1229.9 | 1190.6 | 1150.2 | 1094.2 | 1044.3 | 1024.0 | 1006.2 |
| 77.5° | 1099.0 | 1064.5 | 1008.7 | 970.5  | 938.5  | 885.0  | 865.9  | 846.8  |
| 80°   | 876.6  | 860.0  | 819.5  | 769.6  | 752.9  | 700.6  | 686.2  | 661.2  |
| 82.5° | 637.5  | 620.9  | 588.7  | 554.2  | 534.0  | 506.7  | 482.8  | 466.3  |
| 85°   | 389.0  | 371.1  | 354.4  | 323.5  | 311.6  | 291.4  | 272.4  | 262.9  |
| 87.5° | 140.4  | 126.0  | 113.0  | 98.7   | 91.5   | 77.3   | 74.9   | 67.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)