

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: P197520

Luminaire Tested: **TT-C3-LED-E1-CQ-LWR-LW-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197520  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115438)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-C3-LED-E1-CQ-LWR-LW-7060  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR  
Light Source: (168) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5386.9 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B2 - U0 - G1

Input Watts (W): 45  
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

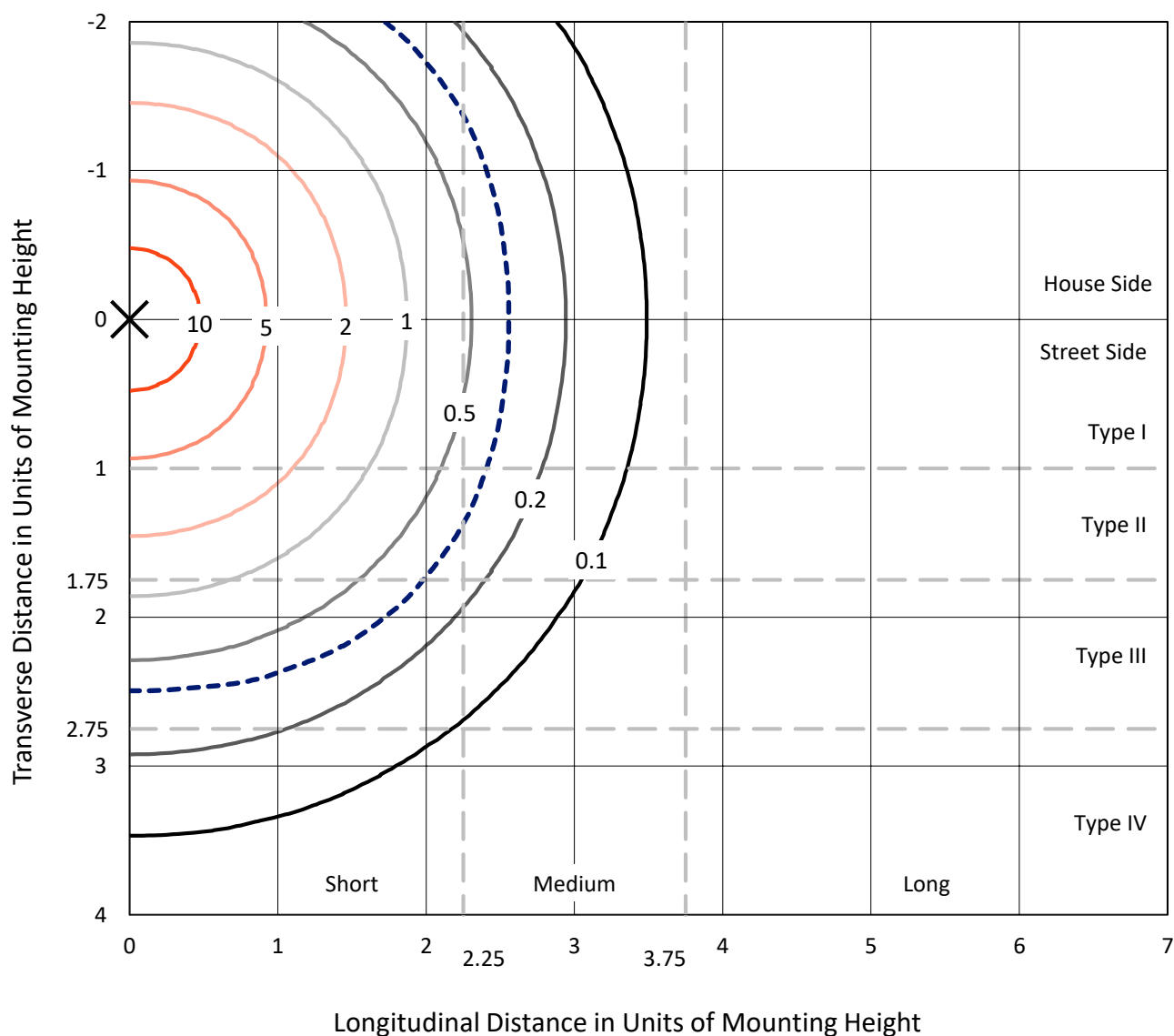


REPORT NUMBER: P197520

CATALOG NUMBER: TT-C3-LED-E1-CQ-LWR-LW-7060

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

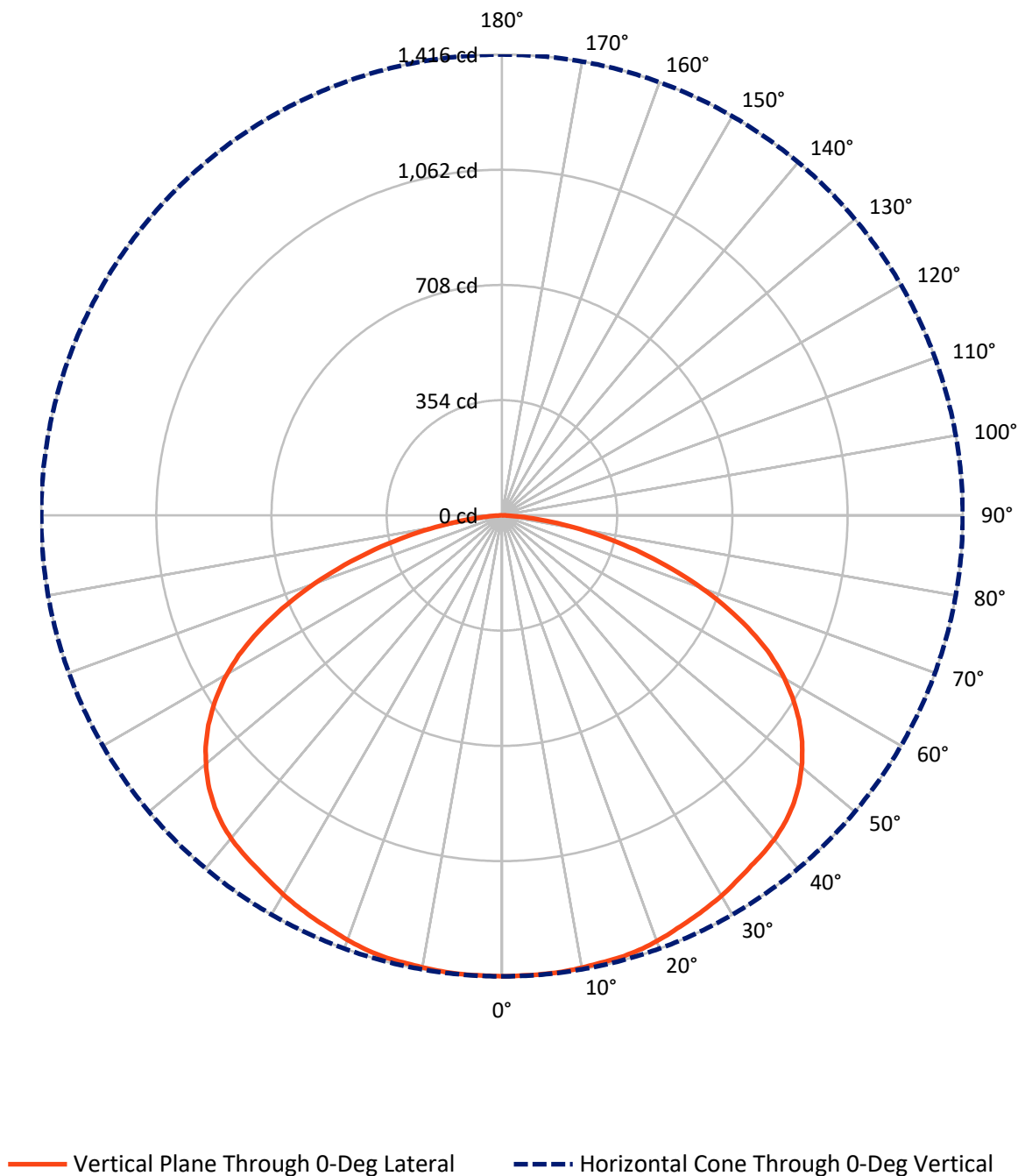


Based on 10 foot mounting height. Maximum calculated value = 14.2 fc  
Type V - Short - Full Cutoff

REPORT NUMBER: P197520

CATALOG NUMBER: TT-C3-LED-E1-CQ-LWR-LW-7060

## Luminous Intensity Polar Plot



REPORT NUMBER: P197520

CATALOG NUMBER: TT-C3-LED-E1-CQ-LWR-LW-7060

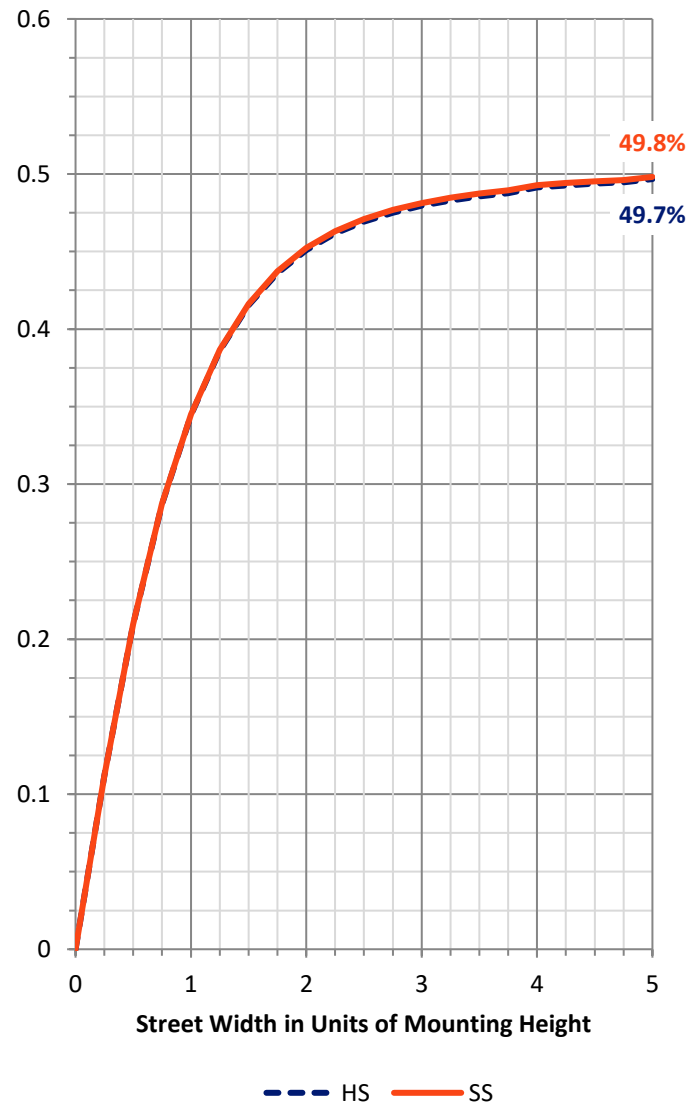
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2693.5   | 0.0    | 2693.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2693.5   | 0.0    | 2693.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5386.9   | 0.0    | 5386.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 134.9  | 2.5       |
| 10°-20°   | 397.3  | 7.4       |
| 20°-30°   | 632.7  | 11.7      |
| 30°-40°   | 829.5  | 15.4      |
| 40°-50°   | 978.3  | 18.2      |
| 50°-60°   | 1013.3 | 18.8      |
| 60°-70°   | 847.4  | 15.7      |
| 70°-80°   | 461.9  | 8.6       |
| 80°-90°   | 91.7   | 1.7       |
| 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°    | 5386.9 | 100.0     |
| 0°-180°   | 5386.9 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P197520

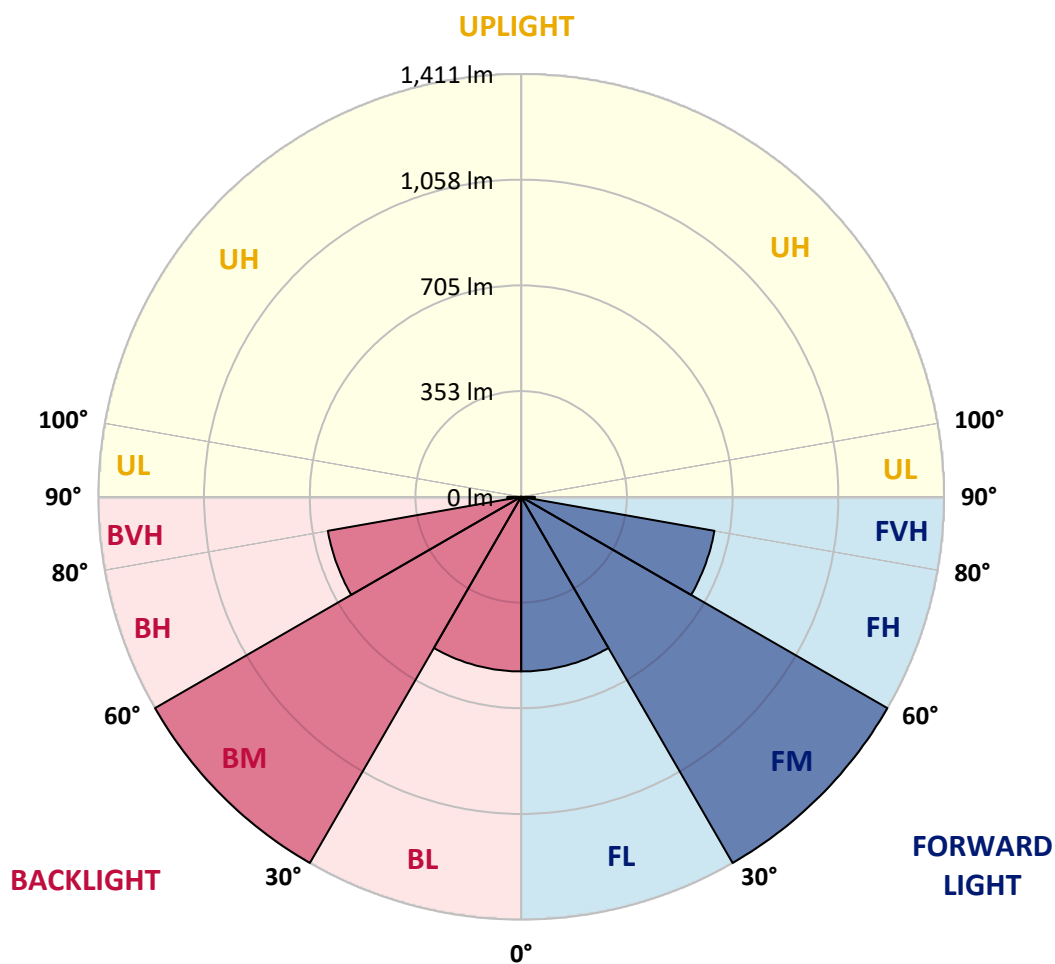
CATALOG NUMBER: TT-C3-LED-E1-CQ-LWR-LW-7060

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 582.4  | 10.8      |                         |      |        |
| FM   | (30°-60°)   | 1410.6 | 26.2      |                         |      |        |
| FH   | (60°-80°)   | 654.6  | 12.2      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 45.8   | 0.9       |                         |      | G1/100 |
| BL   | (0°-30°)    | 582.4  | 10.8      | B2/1000                 |      |        |
| BM   | (30°-60°)   | 1410.6 | 26.2      | B2/2500                 |      |        |
| BH   | (60°-80°)   | 654.6  | 12.2      | B2/1000                 |      | G0/660 |
| BVH  | (80°-90°)   | 45.8   | 0.9       |                         |      | G1/100 |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G1**

Type V Short



REPORT NUMBER: P197520

CATALOG NUMBER: TT-C3-LED-E1-CQ-LWR-LW-7060

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1415.7 | 1415.7 | 1415.7 | 1415.7 | 1415.7 | 1415.7 | 1415.7 | 1415.7 | 1415.7 | 1415.7 | 1415.7 |
| 2.5°  | 1414.6 | 1415.7 | 1415.7 | 1415.7 | 1415.7 | 1415.7 | 1415.7 | 1415.7 | 1414.6 | 1415.7 | 1415.7 |
| 5°    | 1414.6 | 1414.6 | 1414.6 | 1414.6 | 1415.7 | 1414.6 | 1414.6 | 1414.6 | 1414.6 | 1414.6 | 1414.6 |
| 7.5°  | 1413.4 | 1412.3 | 1412.3 | 1412.3 | 1412.3 | 1412.3 | 1413.4 | 1413.4 | 1413.4 | 1413.4 | 1413.4 |
| 10°   | 1410.0 | 1410.0 | 1410.0 | 1410.0 | 1410.0 | 1410.0 | 1410.0 | 1410.0 | 1410.0 | 1410.0 | 1410.0 |
| 12.5° | 1406.6 | 1406.6 | 1406.6 | 1406.6 | 1407.8 | 1407.8 | 1407.8 | 1407.8 | 1407.8 | 1407.8 | 1406.6 |
| 15°   | 1404.4 | 1404.4 | 1404.4 | 1404.4 | 1404.4 | 1404.4 | 1404.4 | 1404.4 | 1404.4 | 1404.4 | 1404.4 |
| 17.5° | 1398.7 | 1398.7 | 1398.7 | 1398.7 | 1399.8 | 1399.8 | 1399.8 | 1399.8 | 1399.8 | 1399.8 | 1399.8 |
| 20°   | 1389.6 | 1389.6 | 1389.6 | 1389.6 | 1389.6 | 1390.8 | 1391.9 | 1391.9 | 1391.9 | 1391.9 | 1391.9 |
| 22.5° | 1378.3 | 1378.3 | 1379.4 | 1379.4 | 1380.6 | 1380.6 | 1381.7 | 1381.7 | 1381.7 | 1381.7 | 1381.7 |
| 25°   | 1368.1 | 1368.1 | 1368.1 | 1369.2 | 1369.2 | 1369.2 | 1370.4 | 1371.5 | 1371.5 | 1371.5 | 1370.4 |
| 27.5° | 1357.9 | 1357.9 | 1357.9 | 1359.0 | 1359.0 | 1359.0 | 1360.2 | 1360.2 | 1361.3 | 1360.2 | 1360.2 |
| 30°   | 1346.6 | 1345.4 | 1345.4 | 1346.6 | 1347.7 | 1347.7 | 1348.8 | 1348.8 | 1348.8 | 1348.8 | 1347.7 |
| 32.5° | 1333.0 | 1333.0 | 1334.1 | 1335.2 | 1335.2 | 1336.4 | 1337.5 | 1337.5 | 1337.5 | 1338.6 | 1336.4 |
| 35°   | 1320.5 | 1321.6 | 1321.6 | 1322.8 | 1325.0 | 1326.2 | 1327.3 | 1328.4 | 1328.4 | 1328.4 | 1326.2 |
| 37.5° | 1310.3 | 1311.4 | 1312.6 | 1314.8 | 1317.1 | 1319.4 | 1321.6 | 1323.9 | 1322.8 | 1322.8 | 1319.4 |
| 40°   | 1297.8 | 1299.0 | 1301.2 | 1303.5 | 1308.0 | 1310.3 | 1313.7 | 1316.0 | 1317.1 | 1316.0 | 1312.6 |
| 42.5° | 1280.8 | 1281.9 | 1284.2 | 1287.6 | 1293.3 | 1297.8 | 1301.2 | 1304.6 | 1305.8 | 1304.6 | 1301.2 |
| 45°   | 1258.1 | 1259.3 | 1261.5 | 1266.1 | 1272.9 | 1277.4 | 1283.1 | 1286.5 | 1288.7 | 1288.7 | 1285.3 |
| 47.5° | 1229.8 | 1230.9 | 1234.3 | 1238.9 | 1245.7 | 1251.3 | 1258.1 | 1262.7 | 1264.9 | 1267.2 | 1263.8 |
| 50°   | 1194.7 | 1195.8 | 1200.3 | 1206.0 | 1211.7 | 1219.6 | 1227.5 | 1234.3 | 1237.7 | 1238.9 | 1237.7 |
| 52.5° | 1155.0 | 1156.1 | 1160.7 | 1166.3 | 1174.3 | 1183.3 | 1192.4 | 1200.3 | 1204.9 | 1207.1 | 1204.9 |
| 55°   | 1107.4 | 1109.7 | 1113.1 | 1121.0 | 1130.1 | 1138.0 | 1149.3 | 1158.4 | 1164.1 | 1165.2 | 1164.1 |
| 57.5° | 1051.9 | 1055.3 | 1058.7 | 1067.7 | 1076.8 | 1088.1 | 1097.2 | 1106.3 | 1113.1 | 1114.2 | 1114.2 |
| 60°   | 989.5  | 991.8  | 995.2  | 1004.3 | 1014.5 | 1022.4 | 1034.9 | 1043.9 | 1049.6 | 1049.6 | 1050.7 |
| 62.5° | 915.8  | 918.1  | 923.8  | 930.6  | 941.9  | 949.8  | 960.0  | 969.1  | 974.8  | 977.0  | 975.9  |
| 65°   | 829.7  | 832.0  | 835.4  | 844.4  | 853.5  | 862.6  | 872.8  | 880.7  | 886.4  | 887.5  | 886.4  |
| 67.5° | 734.5  | 736.8  | 739.0  | 750.4  | 759.4  | 762.8  | 775.3  | 782.1  | 785.5  | 786.6  | 786.6  |
| 70°   | 633.6  | 634.7  | 638.1  | 643.8  | 654.0  | 657.4  | 665.3  | 671.0  | 673.3  | 677.8  | 674.4  |
| 72.5° | 528.2  | 530.5  | 538.4  | 539.5  | 547.5  | 552.0  | 554.3  | 554.3  | 559.9  | 559.9  | 561.1  |
| 75°   | 423.9  | 425.0  | 428.4  | 429.6  | 435.3  | 435.3  | 434.1  | 436.4  | 440.9  | 440.9  | 442.1  |
| 77.5° | 320.8  | 320.8  | 326.4  | 321.9  | 324.2  | 319.6  | 321.9  | 319.6  | 323.0  | 321.9  | 323.0  |
| 80°   | 224.4  | 224.4  | 227.8  | 223.3  | 224.4  | 219.9  | 221.0  | 219.9  | 219.9  | 221.0  | 221.0  |
| 82.5° | 138.3  | 139.4  | 141.7  | 138.3  | 138.3  | 134.9  | 136.0  | 137.1  | 137.1  | 136.0  | 134.9  |
| 85°   | 68.0   | 68.0   | 70.3   | 69.1   | 68.0   | 65.7   | 66.9   | 68.0   | 68.0   | 66.9   | 66.9   |
| 87.5° | 18.1   | 18.1   | 19.3   | 19.3   | 18.1   | 17.0   | 18.1   | 19.3   | 19.3   | 19.3   | 18.1   |
| 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: P197520

CATALOG NUMBER: TT-C3-LED-E1-CQ-LWR-LW-7060

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1415.7 | 1415.7 | 1415.7 | 1415.7 | 1415.7 | 1415.7 | 1415.7 | 1415.7 |
| 2.5°  | 1414.6 | 1414.6 | 1415.7 | 1414.6 | 1415.7 | 1414.6 | 1415.7 | 1415.7 |
| 5°    | 1414.6 | 1414.6 | 1414.6 | 1414.6 | 1414.6 | 1414.6 | 1414.6 | 1414.6 |
| 7.5°  | 1412.3 | 1413.4 | 1412.3 | 1412.3 | 1412.3 | 1413.4 | 1412.3 | 1413.4 |
| 10°   | 1410.0 | 1410.0 | 1410.0 | 1410.0 | 1410.0 | 1410.0 | 1410.0 | 1410.0 |
| 12.5° | 1406.6 | 1406.6 | 1406.6 | 1406.6 | 1406.6 | 1406.6 | 1406.6 | 1405.5 |
| 15°   | 1404.4 | 1403.2 | 1403.2 | 1403.2 | 1402.1 | 1402.1 | 1402.1 | 1402.1 |
| 17.5° | 1399.8 | 1398.7 | 1397.6 | 1397.6 | 1397.6 | 1397.6 | 1396.4 | 1396.4 |
| 20°   | 1391.9 | 1390.8 | 1389.6 | 1389.6 | 1388.5 | 1388.5 | 1387.4 | 1387.4 |
| 22.5° | 1380.6 | 1380.6 | 1379.4 | 1378.3 | 1378.3 | 1377.2 | 1377.2 | 1376.0 |
| 25°   | 1370.4 | 1369.2 | 1368.1 | 1367.0 | 1365.8 | 1365.8 | 1364.7 | 1363.6 |
| 27.5° | 1359.0 | 1356.8 | 1355.6 | 1354.5 | 1353.4 | 1352.2 | 1351.1 | 1350.0 |
| 30°   | 1346.6 | 1344.3 | 1342.0 | 1340.9 | 1338.6 | 1336.4 | 1335.2 | 1334.1 |
| 32.5° | 1334.1 | 1331.8 | 1328.4 | 1325.0 | 1322.8 | 1320.5 | 1318.2 | 1317.1 |
| 35°   | 1323.9 | 1319.4 | 1316.0 | 1311.4 | 1308.0 | 1304.6 | 1303.5 | 1302.4 |
| 37.5° | 1316.0 | 1311.4 | 1305.8 | 1301.2 | 1297.8 | 1293.3 | 1291.0 | 1288.7 |
| 40°   | 1308.0 | 1302.4 | 1295.6 | 1289.9 | 1285.3 | 1279.7 | 1277.4 | 1275.1 |
| 42.5° | 1296.7 | 1289.9 | 1283.1 | 1276.3 | 1269.5 | 1263.8 | 1260.4 | 1258.1 |
| 45°   | 1280.8 | 1274.0 | 1266.1 | 1257.0 | 1250.2 | 1243.4 | 1240.0 | 1237.7 |
| 47.5° | 1259.3 | 1252.5 | 1243.4 | 1235.5 | 1227.5 | 1220.7 | 1216.2 | 1213.9 |
| 50°   | 1233.2 | 1226.4 | 1217.3 | 1208.3 | 1200.3 | 1192.4 | 1189.0 | 1185.6 |
| 52.5° | 1200.3 | 1194.7 | 1184.5 | 1177.7 | 1168.6 | 1160.7 | 1157.3 | 1155.0 |
| 55°   | 1159.5 | 1153.9 | 1143.7 | 1136.9 | 1127.8 | 1121.0 | 1116.5 | 1113.1 |
| 57.5° | 1109.7 | 1105.1 | 1093.8 | 1087.0 | 1077.9 | 1071.1 | 1067.7 | 1065.5 |
| 60°   | 1048.5 | 1043.9 | 1032.6 | 1025.8 | 1017.9 | 1009.9 | 1007.7 | 1005.4 |
| 62.5° | 972.5  | 970.2  | 961.2  | 953.2  | 945.3  | 937.4  | 935.1  | 934.0  |
| 65°   | 884.1  | 881.8  | 873.9  | 867.1  | 860.3  | 853.5  | 851.2  | 849.0  |
| 67.5° | 783.2  | 782.1  | 775.3  | 769.6  | 765.1  | 758.3  | 757.2  | 754.9  |
| 70°   | 675.5  | 673.3  | 667.6  | 663.1  | 659.7  | 654.0  | 652.9  | 650.6  |
| 72.5° | 563.3  | 562.2  | 558.8  | 553.1  | 553.1  | 545.2  | 544.1  | 542.9  |
| 75°   | 439.8  | 445.5  | 440.9  | 438.7  | 438.7  | 434.1  | 434.1  | 433.0  |
| 77.5° | 321.9  | 327.6  | 331.0  | 326.4  | 331.0  | 326.4  | 326.4  | 325.3  |
| 80°   | 219.9  | 224.4  | 227.8  | 224.4  | 230.1  | 226.7  | 226.7  | 231.2  |
| 82.5° | 133.7  | 138.3  | 140.5  | 139.4  | 142.8  | 141.7  | 140.5  | 144.0  |
| 85°   | 65.7   | 68.0   | 69.1   | 69.1   | 70.3   | 68.0   | 70.3   | 71.4   |
| 87.5° | 17.0   | 18.1   | 19.3   | 18.1   | 19.3   | 19.3   | 19.3   | 20.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)