

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: P197830

Luminaire Tested: **TT-C3-LED-E1-5WQ-PM-CG-MS/DIM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115513)
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-E1-5WQ-PM-CG-MS/DIM
Description: TOPTIER LED AREA/SITE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5408.2 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - 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

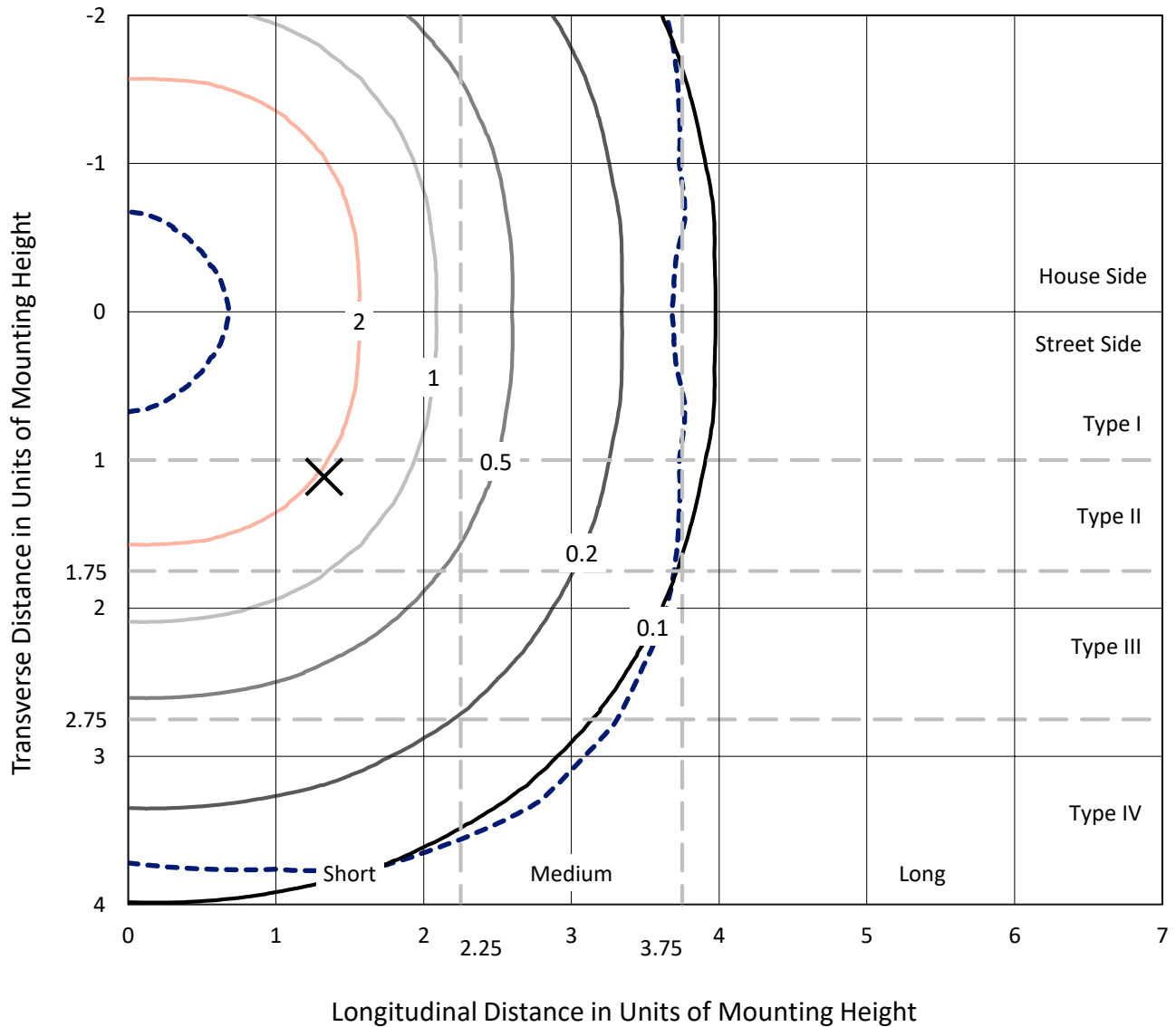


REPORT NUMBER: P197830

CATALOG NUMBER: TT-C3-LED-E1-5WQ-PM-CG-MS/DIM

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

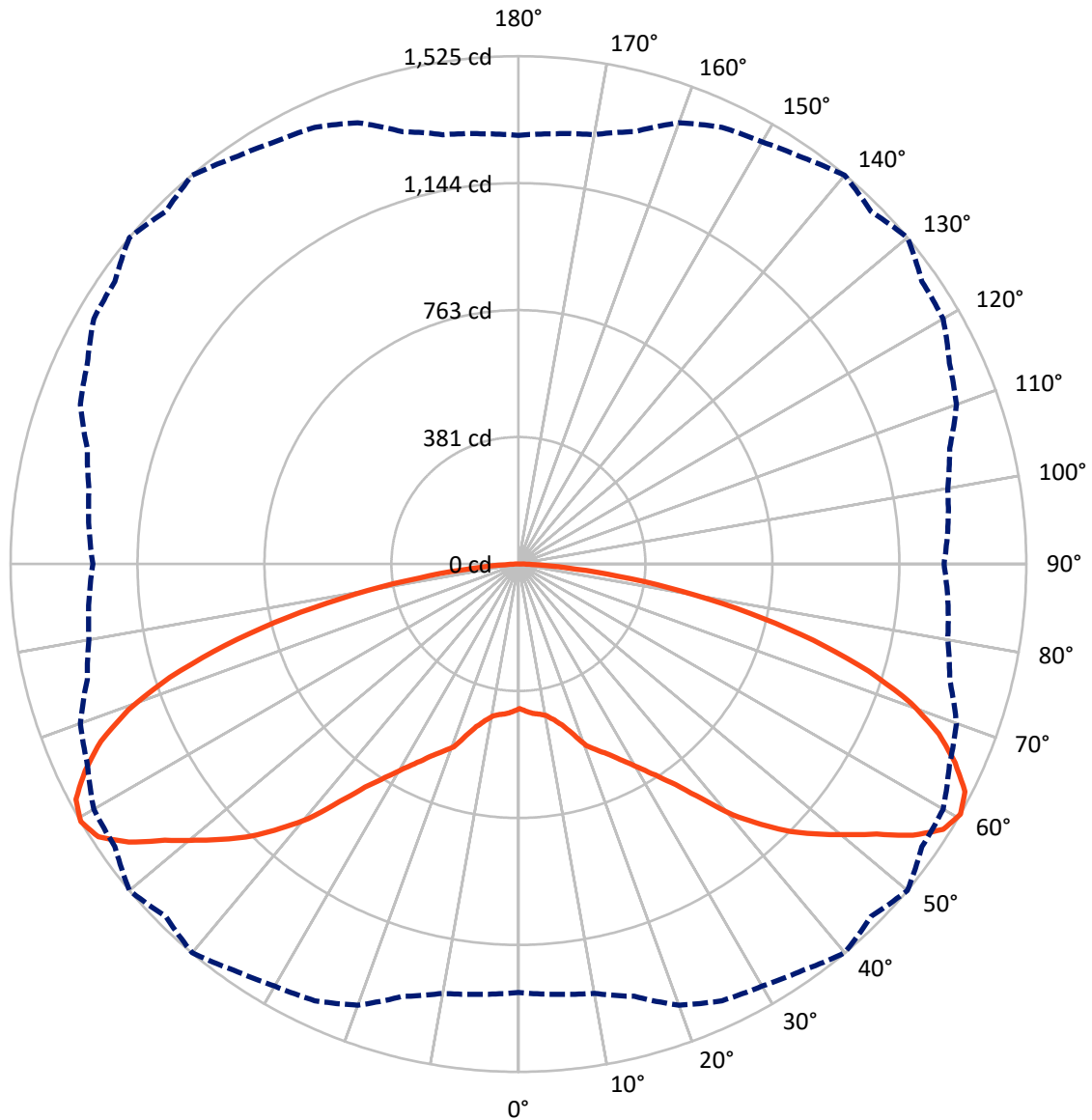


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P197830

CATALOG NUMBER: TT-C3-LED-E1-5WQ-PM-CG-MS/DIM

Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P197830

CATALOG NUMBER: TT-C3-LED-E1-5WQ-PM-CG-MS/DIM

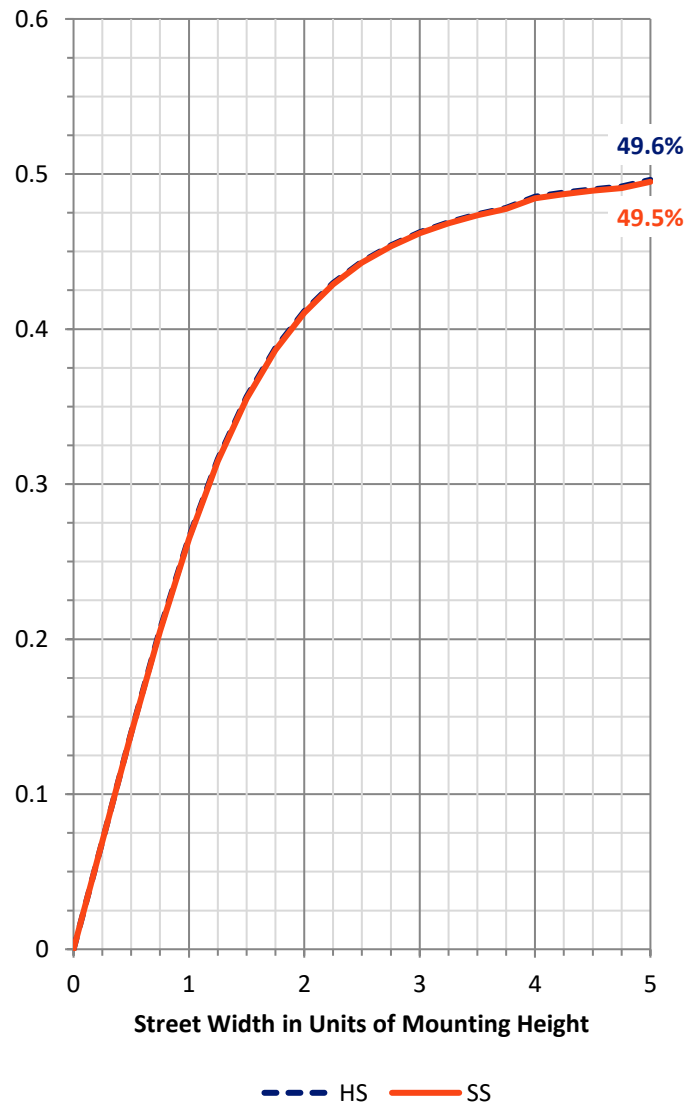
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2704.1 | 0.0 | 2704.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2704.1 | 0.0 | 2704.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5408.2 | 0.0 | 5408.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 43.2 | 0.8 |
| 10°-20° | 145.9 | 2.7 |
| 20°-30° | 294.6 | 5.4 |
| 30°-40° | 509.2 | 9.4 |
| 40°-50° | 845.7 | 15.6 |
| 50°-60° | 1201.8 | 22.2 |
| 60°-70° | 1312.7 | 24.3 |
| 70°-80° | 872.1 | 16.1 |
| 80°-90° | 183.1 | 3.4 |
| 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° | 5408.2 | 100.0 |
| 0°-180° | 5408.2 | 100.0 |



REPORT NUMBER: P197830

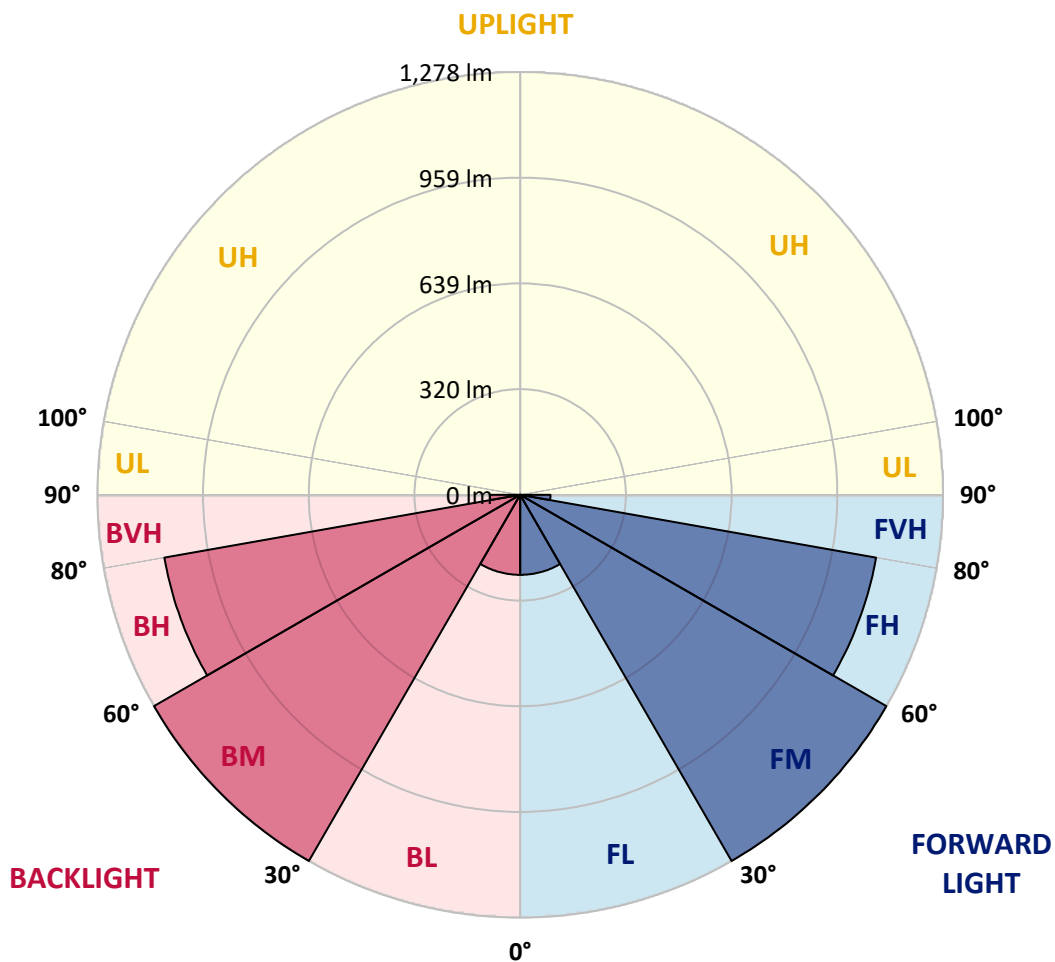
CATALOG NUMBER: TT-C3-LED-E1-5WQ-PM-CG-MS/DIM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 241.8 | 4.5 | | | |
| FM | (30°-60°) | 1278.3 | 23.6 | | | |
| FH | (60°-80°) | 1092.4 | 20.2 | | | G1/1800 |
| FVH | (80°-90°) | 91.5 | 1.7 | | | G1/100 |
| BL | (0°-30°) | 241.8 | 4.5 | B1/500 | | |
| BM | (30°-60°) | 1278.3 | 23.6 | B2/2500 | | |
| BH | (60°-80°) | 1092.4 | 20.2 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 91.5 | 1.7 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





REPORT NUMBER: P197830

CATALOG NUMBER: TT-C3-LED-E1-5WQ-PM-CG-MS/DIM

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 433.9 | 433.9 | 433.9 | 433.9 | 433.9 | 433.9 | 433.9 | 433.9 | 433.9 | 433.9 | 433.9 |
| 2.5° | 442.9 | 442.9 | 442.9 | 442.9 | 442.9 | 442.9 | 442.9 | 442.9 | 441.8 | 442.9 | 442.9 |
| 5° | 447.3 | 447.3 | 447.3 | 448.5 | 448.5 | 448.5 | 449.6 | 449.6 | 449.6 | 450.7 | 450.7 |
| 7.5° | 450.7 | 450.7 | 450.7 | 450.7 | 451.8 | 451.8 | 451.8 | 452.9 | 452.9 | 454.1 | 455.2 |
| 10° | 465.2 | 465.2 | 465.2 | 465.2 | 465.2 | 464.1 | 464.1 | 464.1 | 463.0 | 463.0 | 463.0 |
| 12.5° | 483.1 | 484.3 | 485.4 | 485.4 | 485.4 | 485.4 | 483.1 | 480.9 | 480.9 | 480.9 | 480.9 |
| 15° | 499.9 | 501.0 | 502.1 | 504.4 | 505.5 | 506.6 | 506.6 | 506.6 | 506.6 | 506.6 | 504.4 |
| 17.5° | 526.7 | 527.9 | 527.9 | 529.0 | 530.1 | 530.1 | 531.2 | 534.6 | 539.1 | 541.3 | 539.1 |
| 20° | 568.1 | 570.4 | 571.5 | 571.5 | 572.6 | 571.5 | 573.7 | 576.0 | 579.3 | 581.5 | 582.7 |
| 22.5° | 598.3 | 600.6 | 603.9 | 603.9 | 603.9 | 602.8 | 605.0 | 606.2 | 605.0 | 605.0 | 607.3 |
| 25° | 621.8 | 624.0 | 626.3 | 627.4 | 629.6 | 634.1 | 638.6 | 638.6 | 635.2 | 634.1 | 634.1 |
| 27.5° | 652.0 | 655.4 | 655.4 | 656.5 | 658.7 | 662.1 | 666.5 | 669.9 | 672.1 | 669.9 | 668.8 |
| 30° | 691.1 | 693.4 | 694.5 | 693.4 | 697.9 | 699.0 | 700.1 | 702.3 | 709.0 | 713.5 | 707.9 |
| 32.5° | 721.3 | 724.7 | 728.1 | 732.5 | 742.6 | 747.1 | 745.9 | 748.2 | 750.4 | 754.9 | 756.0 |
| 35° | 767.2 | 772.8 | 773.9 | 777.3 | 789.6 | 796.3 | 806.3 | 811.9 | 810.8 | 805.2 | 813.1 |
| 37.5° | 836.5 | 843.2 | 844.4 | 850.0 | 862.3 | 867.9 | 879.0 | 893.6 | 896.9 | 889.1 | 893.6 |
| 40° | 909.2 | 918.2 | 926.0 | 938.3 | 958.4 | 965.1 | 978.6 | 986.4 | 997.6 | 998.7 | 990.9 |
| 42.5° | 970.7 | 980.8 | 980.8 | 1002.1 | 1024.4 | 1043.4 | 1060.2 | 1061.3 | 1069.2 | 1080.3 | 1069.2 |
| 45° | 1036.7 | 1044.6 | 1047.9 | 1065.8 | 1079.2 | 1103.8 | 1128.4 | 1137.4 | 1140.7 | 1143.0 | 1146.3 |
| 47.5° | 1097.1 | 1107.2 | 1110.5 | 1126.2 | 1140.7 | 1163.1 | 1178.8 | 1205.6 | 1212.3 | 1203.4 | 1212.3 |
| 50° | 1135.1 | 1146.3 | 1155.3 | 1187.7 | 1213.4 | 1232.4 | 1245.9 | 1269.3 | 1282.8 | 1276.1 | 1277.2 |
| 52.5° | 1194.4 | 1197.8 | 1206.7 | 1224.6 | 1261.5 | 1313.0 | 1328.6 | 1336.4 | 1355.5 | 1365.5 | 1347.6 |
| 55° | 1274.9 | 1286.1 | 1292.8 | 1314.1 | 1333.1 | 1370.0 | 1429.3 | 1441.6 | 1437.1 | 1468.4 | 1438.2 |
| 57.5° | 1288.4 | 1305.1 | 1326.4 | 1366.6 | 1400.2 | 1420.3 | 1457.2 | 1499.7 | 1498.6 | 1503.1 | 1504.2 |
| 60° | 1287.2 | 1297.3 | 1309.6 | 1344.3 | 1410.3 | 1447.2 | 1463.9 | 1489.7 | 1524.3 | 1497.5 | 1525.4 |
| 62.5° | 1279.4 | 1293.9 | 1307.4 | 1332.0 | 1367.8 | 1420.3 | 1467.3 | 1463.9 | 1510.9 | 1489.7 | 1505.3 |
| 65° | 1232.4 | 1245.9 | 1270.5 | 1302.9 | 1346.5 | 1371.1 | 1418.1 | 1448.3 | 1441.6 | 1470.6 | 1441.6 |
| 67.5° | 1150.8 | 1163.1 | 1183.2 | 1221.3 | 1267.1 | 1302.9 | 1319.7 | 1370.0 | 1364.4 | 1396.8 | 1362.2 |
| 70° | 1039.0 | 1054.6 | 1078.1 | 1104.9 | 1149.7 | 1187.7 | 1206.7 | 1239.1 | 1254.8 | 1252.6 | 1250.3 |
| 72.5° | 904.8 | 918.2 | 937.2 | 966.3 | 1004.3 | 1041.2 | 1055.7 | 1080.3 | 1106.1 | 1098.2 | 1100.5 |
| 75° | 754.9 | 766.1 | 780.6 | 798.5 | 834.3 | 863.4 | 880.2 | 902.5 | 922.7 | 917.1 | 914.8 |
| 77.5° | 581.5 | 595.0 | 610.6 | 627.4 | 641.9 | 668.8 | 681.1 | 696.7 | 713.5 | 710.2 | 711.3 |
| 80° | 407.1 | 418.3 | 428.3 | 446.2 | 457.4 | 466.4 | 479.8 | 486.5 | 498.8 | 496.6 | 499.9 |
| 82.5° | 248.3 | 256.1 | 262.8 | 271.8 | 281.8 | 279.6 | 280.7 | 288.5 | 298.6 | 293.0 | 302.0 |
| 85° | 121.9 | 120.8 | 127.5 | 129.7 | 136.4 | 135.3 | 134.2 | 138.7 | 144.3 | 140.9 | 140.9 |
| 87.5° | 31.3 | 31.3 | 31.3 | 32.4 | 35.8 | 39.1 | 35.8 | 38.0 | 40.3 | 41.4 | 40.3 |
| 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: P197830

CATALOG NUMBER: TT-C3-LED-E1-5WQ-PM-CG-MS/DIM

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 433.9 | 433.9 | 433.9 | 433.9 | 433.9 | 433.9 | 433.9 | 433.9 |
| 2.5° | 441.8 | 442.9 | 441.8 | 442.9 | 442.9 | 442.9 | 442.9 | 441.8 |
| 5° | 450.7 | 449.6 | 449.6 | 449.6 | 448.5 | 447.3 | 447.3 | 447.3 |
| 7.5° | 455.2 | 455.2 | 454.1 | 452.9 | 451.8 | 451.8 | 454.1 | 452.9 |
| 10° | 465.2 | 466.4 | 467.5 | 468.6 | 467.5 | 466.4 | 466.4 | 465.2 |
| 12.5° | 480.9 | 482.0 | 484.3 | 486.5 | 486.5 | 485.4 | 483.1 | 482.0 |
| 15° | 503.3 | 502.1 | 503.3 | 505.5 | 505.5 | 502.1 | 498.8 | 497.7 |
| 17.5° | 534.6 | 531.2 | 529.0 | 529.0 | 531.2 | 527.9 | 524.5 | 525.6 |
| 20° | 578.2 | 572.6 | 571.5 | 568.1 | 571.5 | 571.5 | 565.9 | 565.9 |
| 22.5° | 609.5 | 605.0 | 600.6 | 597.2 | 601.7 | 603.9 | 598.3 | 593.9 |
| 25° | 638.6 | 637.5 | 630.8 | 627.4 | 627.4 | 628.5 | 620.7 | 621.8 |
| 27.5° | 667.7 | 667.7 | 663.2 | 657.6 | 655.4 | 658.7 | 652.0 | 649.8 |
| 30° | 702.3 | 699.0 | 702.3 | 694.5 | 688.9 | 692.3 | 692.3 | 687.8 |
| 32.5° | 747.1 | 742.6 | 745.9 | 737.0 | 729.2 | 728.1 | 722.5 | 715.8 |
| 35° | 810.8 | 799.6 | 794.0 | 789.6 | 773.9 | 772.8 | 771.7 | 766.1 |
| 37.5° | 891.3 | 876.8 | 864.5 | 865.6 | 843.2 | 837.7 | 837.7 | 829.8 |
| 40° | 987.5 | 978.6 | 960.7 | 954.0 | 931.6 | 917.1 | 915.9 | 901.4 |
| 42.5° | 1054.6 | 1058.0 | 1034.5 | 1018.8 | 1000.9 | 978.6 | 979.7 | 964.0 |
| 45° | 1128.4 | 1121.7 | 1100.5 | 1074.7 | 1066.9 | 1042.3 | 1043.4 | 1027.8 |
| 47.5° | 1198.9 | 1174.3 | 1163.1 | 1135.1 | 1122.8 | 1094.9 | 1098.2 | 1087.1 |
| 50° | 1268.2 | 1241.4 | 1229.1 | 1198.9 | 1178.8 | 1149.7 | 1146.3 | 1122.8 |
| 52.5° | 1342.0 | 1316.3 | 1299.5 | 1255.9 | 1229.1 | 1206.7 | 1197.8 | 1186.6 |
| 55° | 1438.2 | 1412.5 | 1371.1 | 1328.6 | 1308.5 | 1273.8 | 1270.5 | 1255.9 |
| 57.5° | 1480.7 | 1460.6 | 1417.0 | 1389.0 | 1348.7 | 1313.0 | 1299.5 | 1271.6 |
| 60° | 1479.6 | 1472.9 | 1428.2 | 1400.2 | 1340.9 | 1309.6 | 1295.1 | 1278.3 |
| 62.5° | 1467.3 | 1459.5 | 1406.9 | 1375.6 | 1321.9 | 1295.1 | 1283.9 | 1262.6 |
| 65° | 1442.7 | 1415.8 | 1368.9 | 1343.2 | 1285.0 | 1261.5 | 1236.9 | 1217.9 |
| 67.5° | 1373.4 | 1317.4 | 1296.2 | 1263.8 | 1206.7 | 1182.1 | 1158.6 | 1139.6 |
| 70° | 1243.6 | 1202.2 | 1183.2 | 1143.0 | 1093.8 | 1078.1 | 1049.0 | 1027.8 |
| 72.5° | 1078.1 | 1055.7 | 1035.6 | 992.0 | 957.3 | 941.7 | 912.6 | 894.7 |
| 75° | 894.7 | 881.3 | 853.3 | 820.9 | 789.6 | 784.0 | 752.7 | 745.9 |
| 77.5° | 694.5 | 682.2 | 659.8 | 636.3 | 621.8 | 610.6 | 582.7 | 580.4 |
| 80° | 486.5 | 478.7 | 460.8 | 450.7 | 440.6 | 430.6 | 411.6 | 409.3 |
| 82.5° | 287.4 | 281.8 | 282.9 | 272.9 | 267.3 | 265.1 | 250.5 | 251.6 |
| 85° | 138.7 | 134.2 | 134.2 | 134.2 | 128.6 | 127.5 | 118.5 | 119.7 |
| 87.5° | 40.3 | 35.8 | 35.8 | 35.8 | 33.6 | 33.6 | 29.1 | 30.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)