

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: P144670

Luminaire Tested: **CNC-E02-LED-E1-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144670
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33700)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: CNC-E02-LED-E1-RW
Description: CONCISE LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6007.3 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

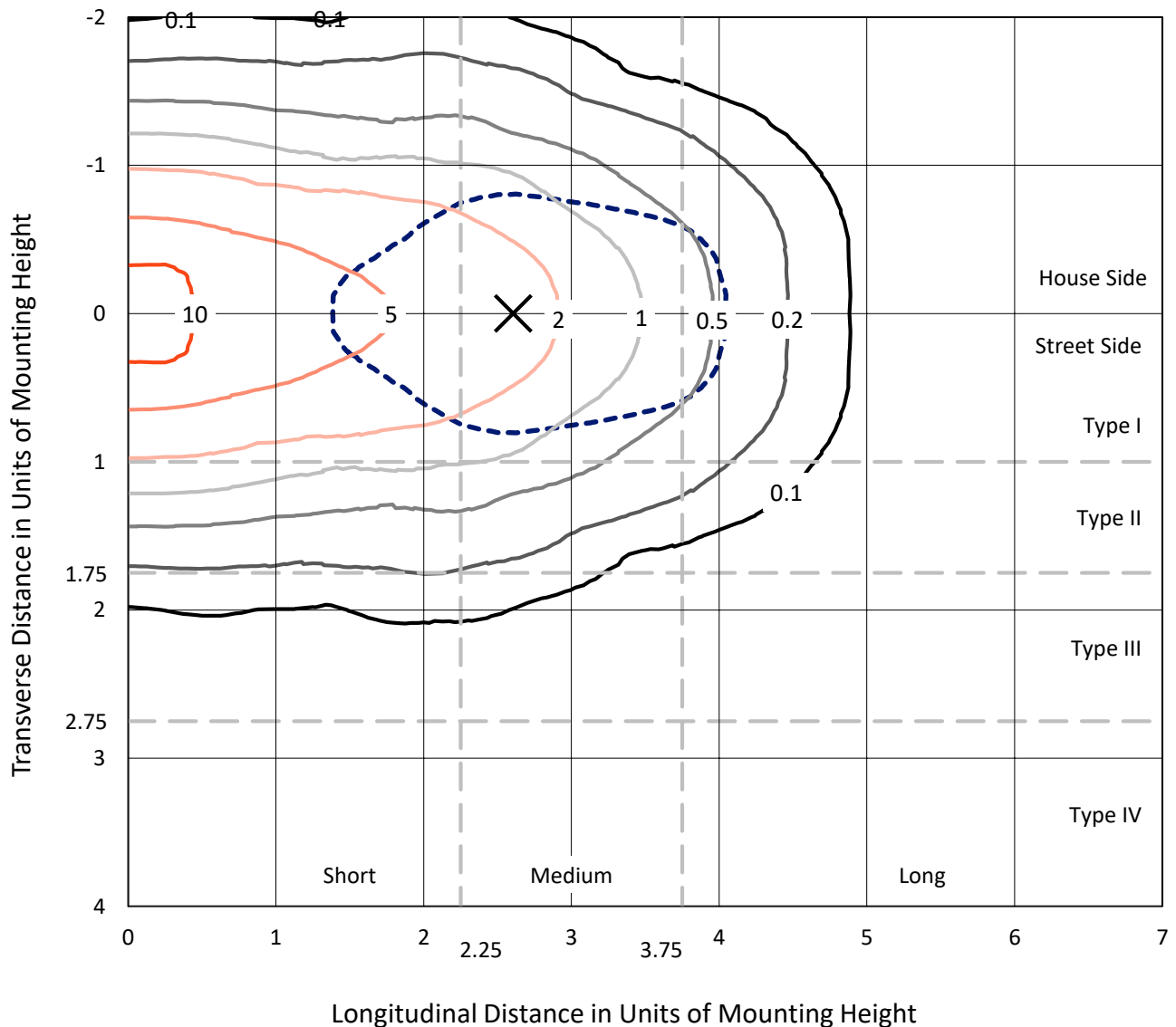
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P144670
 CATALOG NUMBER: CNC-E02-LED-E1-RW

Iso-Footcandle Lines of Horizontal Illumination

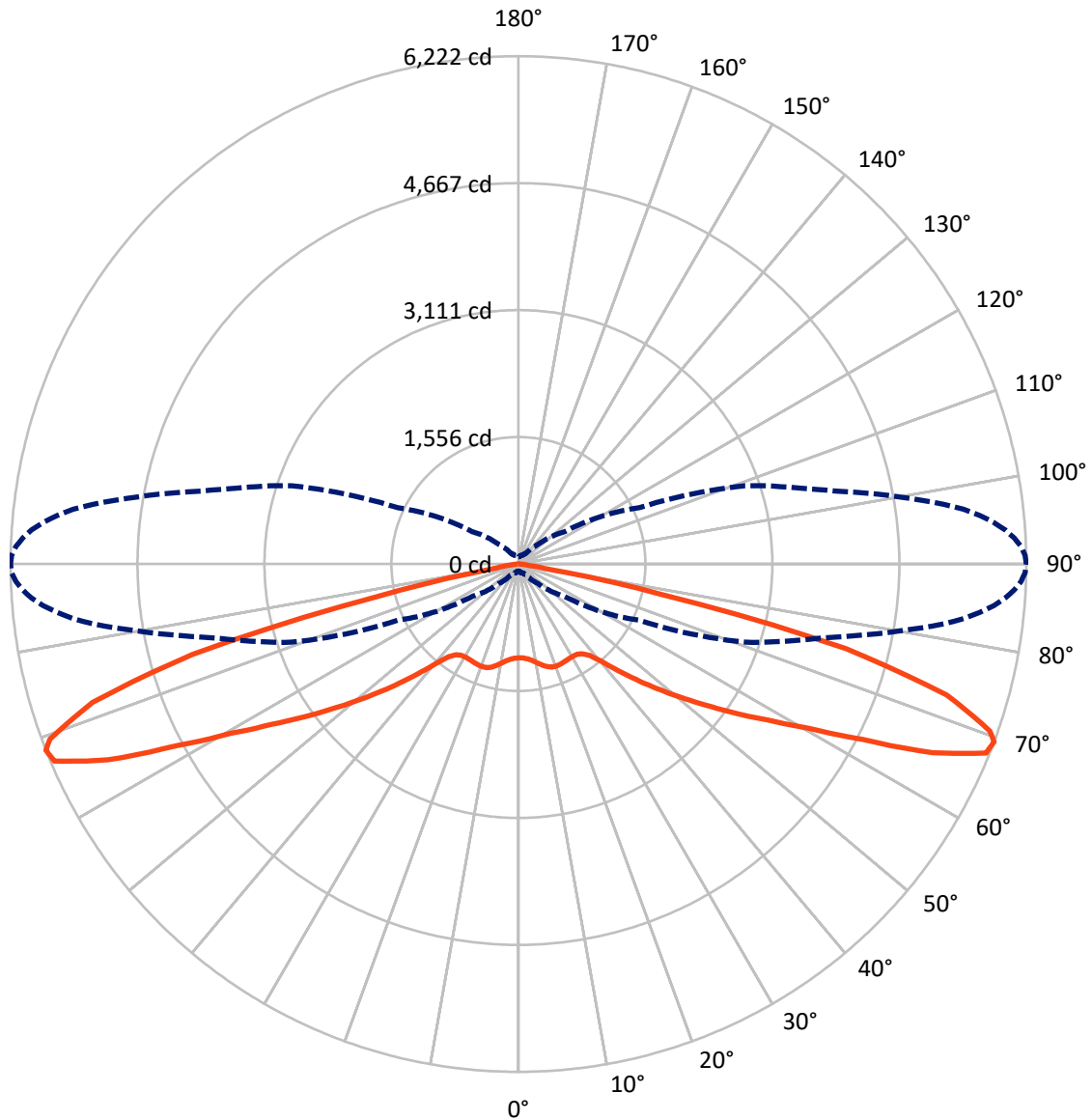
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type I - Short - Full Cutoff

REPORT NUMBER: P144670
CATALOG NUMBER: CNC-E02-LED-E1-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P144670

CATALOG NUMBER: CNC-E02-LED-E1-RW

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3003.7 | 0.0 | 3003.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3003.7 | 0.0 | 3003.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6007.3 | 0.0 | 6007.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 112.6 | 1.9 |
| 10°-20° | 354.5 | 5.9 |
| 20°-30° | 574.1 | 9.6 |
| 30°-40° | 715.2 | 11.9 |
| 40°-50° | 890.3 | 14.8 |
| 50°-60° | 1092.5 | 18.2 |
| 60°-70° | 1347.4 | 22.4 |
| 70°-80° | 837.6 | 13.9 |
| 80°-90° | 83.2 | 1.4 |
| 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° | 6007.3 | 100.0 |
| 0°-180° | 6007.3 | 100.0 |



REPORT NUMBER: P144670

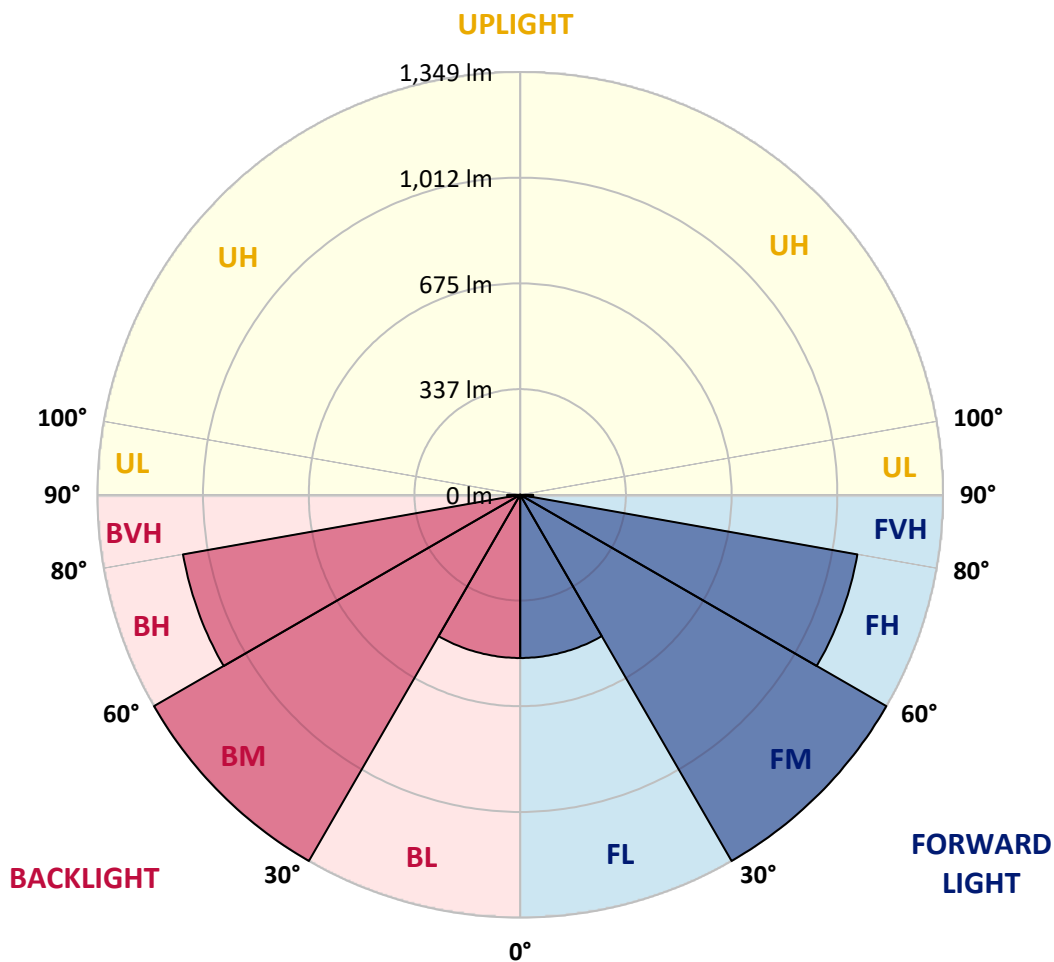
CATALOG NUMBER: CNC-E02-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 520.6 | 8.7 | | | |
| FM (30°-60°) | 1349.0 | 22.5 | | | |
| FH (60°-80°) | 1092.5 | 18.2 | | | G1/1800 |
| FVH (80°-90°) | 41.6 | 0.7 | | | G1/100 |
| BL (0°-30°) | 520.6 | 8.7 | B2/1000 | | |
| BM (30°-60°) | 1349.0 | 22.5 | B2/2500 | | |
| BH (60°-80°) | 1092.5 | 18.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 41.6 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type I Short





REPORT NUMBER: P144670

CATALOG NUMBER: CNC-E02-LED-E1-RW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 |
| 2.5° | 1153.4 | 1152.2 | 1154.4 | 1156.4 | 1155.8 | 1156.2 | 1155.4 | 1154.4 | 1154.5 | 1154.6 | 1154.6 |
| 5° | 1162.4 | 1161.2 | 1163.2 | 1165.0 | 1165.6 | 1167.0 | 1167.4 | 1166.8 | 1167.1 | 1167.4 | 1167.6 |
| 7.5° | 1173.2 | 1172.2 | 1174.8 | 1177.2 | 1181.8 | 1184.2 | 1186.6 | 1189.0 | 1189.2 | 1189.4 | 1189.6 |
| 10° | 1183.4 | 1182.8 | 1187.0 | 1192.2 | 1199.6 | 1205.2 | 1212.0 | 1218.6 | 1219.1 | 1219.6 | 1220.2 |
| 12.5° | 1190.0 | 1190.0 | 1196.4 | 1205.8 | 1218.6 | 1230.0 | 1241.6 | 1252.8 | 1253.8 | 1254.9 | 1255.9 |
| 15° | 1189.6 | 1190.4 | 1200.2 | 1217.4 | 1239.4 | 1259.6 | 1273.8 | 1286.0 | 1287.0 | 1288.0 | 1289.0 |
| 17.5° | 1181.4 | 1181.6 | 1195.6 | 1223.0 | 1257.4 | 1287.4 | 1305.8 | 1312.4 | 1312.8 | 1313.1 | 1313.5 |
| 20° | 1158.4 | 1160.0 | 1179.8 | 1219.6 | 1271.4 | 1312.8 | 1330.2 | 1327.4 | 1326.8 | 1326.2 | 1325.6 |
| 22.5° | 1119.0 | 1121.0 | 1147.4 | 1200.8 | 1274.0 | 1329.2 | 1347.2 | 1334.6 | 1332.7 | 1330.8 | 1328.8 |
| 25° | 1064.2 | 1067.6 | 1096.2 | 1164.6 | 1256.4 | 1334.0 | 1358.2 | 1338.0 | 1335.0 | 1332.0 | 1329.0 |
| 27.5° | 1000.8 | 1002.4 | 1036.2 | 1108.0 | 1215.4 | 1318.0 | 1363.2 | 1345.0 | 1341.2 | 1337.5 | 1333.7 |
| 30° | 927.4 | 931.6 | 966.8 | 1041.8 | 1157.6 | 1280.8 | 1361.2 | 1358.6 | 1354.4 | 1350.2 | 1346.0 |
| 32.5° | 854.4 | 858.0 | 892.6 | 973.4 | 1091.0 | 1229.0 | 1351.2 | 1379.2 | 1375.7 | 1372.2 | 1368.6 |
| 35° | 780.8 | 785.2 | 820.8 | 907.6 | 1024.8 | 1170.2 | 1335.4 | 1408.6 | 1407.1 | 1405.6 | 1404.0 |
| 37.5° | 716.2 | 719.0 | 754.0 | 844.2 | 966.8 | 1116.4 | 1314.8 | 1448.0 | 1451.4 | 1454.9 | 1458.3 |
| 40° | 650.4 | 653.2 | 689.8 | 782.2 | 913.4 | 1070.4 | 1295.8 | 1497.6 | 1507.0 | 1516.4 | 1525.8 |
| 42.5° | 587.2 | 589.6 | 625.0 | 717.2 | 854.0 | 1030.6 | 1284.4 | 1557.6 | 1575.6 | 1593.7 | 1611.7 |
| 45° | 522.4 | 524.0 | 557.2 | 647.0 | 786.2 | 984.2 | 1281.4 | 1625.0 | 1651.0 | 1677.1 | 1703.1 |
| 47.5° | 458.6 | 462.4 | 496.6 | 581.8 | 708.8 | 917.8 | 1277.0 | 1699.6 | 1734.1 | 1768.6 | 1803.2 |
| 50° | 397.6 | 401.8 | 437.0 | 517.8 | 634.0 | 839.0 | 1254.6 | 1784.2 | 1826.3 | 1868.4 | 1910.4 |
| 52.5° | 335.4 | 339.6 | 374.8 | 452.0 | 564.6 | 750.2 | 1192.2 | 1873.0 | 1923.0 | 1973.1 | 2023.1 |
| 55° | 269.0 | 270.6 | 306.8 | 384.2 | 495.2 | 675.8 | 1092.8 | 1954.4 | 2015.0 | 2075.6 | 2136.2 |
| 57.5° | 195.6 | 201.0 | 236.8 | 308.8 | 424.4 | 610.0 | 966.4 | 1996.0 | 2071.6 | 2147.3 | 2222.9 |
| 60° | 141.2 | 144.8 | 176.2 | 232.8 | 344.2 | 545.4 | 854.2 | 1965.6 | 2066.6 | 2167.5 | 2268.5 |
| 62.5° | 111.6 | 115.6 | 139.8 | 175.4 | 266.2 | 474.4 | 781.0 | 1882.2 | 2023.8 | 2165.5 | 2307.1 |
| 65° | 98.8 | 102.4 | 124.8 | 142.4 | 203.6 | 401.4 | 735.0 | 1799.6 | 1990.8 | 2181.9 | 2373.1 |
| 67.5° | 90.2 | 94.0 | 113.6 | 125.6 | 168.2 | 354.4 | 713.2 | 1737.2 | 1958.0 | 2178.7 | 2399.5 |
| 69° | 86.2 | 89.6 | 107.6 | 118.8 | 158.6 | 338.4 | 689.8 | 1631.6 | 1850.5 | 2069.4 | 2288.2 |
| 70° | 84.0 | 87.0 | 103.4 | 114.6 | 154.8 | 325.2 | 655.2 | 1506.0 | 1717.2 | 1928.4 | 2139.6 |
| 72.5° | 77.8 | 79.8 | 93.6 | 104.0 | 141.6 | 259.6 | 494.2 | 1062.6 | 1241.6 | 1420.7 | 1599.7 |
| 75° | 69.0 | 71.4 | 83.6 | 93.2 | 108.0 | 156.0 | 309.4 | 616.8 | 739.5 | 862.2 | 984.8 |
| 77.5° | 59.2 | 62.0 | 72.0 | 87.2 | 87.0 | 101.6 | 187.8 | 354.2 | 413.8 | 473.4 | 533.0 |
| 80° | 50.8 | 53.2 | 62.2 | 86.2 | 72.8 | 80.4 | 140.0 | 264.2 | 288.2 | 312.2 | 336.2 |
| 82.5° | 39.8 | 41.8 | 52.2 | 71.2 | 58.2 | 61.2 | 106.6 | 240.6 | 256.9 | 273.2 | 289.4 |
| 85° | 25.0 | 25.8 | 38.0 | 49.2 | 41.4 | 37.0 | 68.6 | 185.2 | 197.0 | 208.9 | 220.7 |
| 87.5° | 10.0 | 12.2 | 18.4 | 17.6 | 17.8 | 14.8 | 22.2 | 66.8 | 72.9 | 79.0 | 85.0 |
| 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: P144670

CATALOG NUMBER: CNC-E02-LED-E1-RW

CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 |
| 2.5° | 1154.7 | 1154.8 | 1154.4 | 1153.8 | 1154.4 | 1153.8 | 1154.0 | 1154.6 | 1154.4 | 1154.4 | 1154.0 |
| 5° | 1167.9 | 1168.2 | 1168.2 | 1167.0 | 1167.6 | 1167.8 | 1168.0 | 1167.6 | 1167.8 | 1168.2 | 1167.4 |
| 7.5° | 1189.8 | 1190.0 | 1190.6 | 1191.2 | 1190.8 | 1191.0 | 1191.4 | 1191.0 | 1190.4 | 1191.8 | 1190.8 |
| 10° | 1220.7 | 1221.2 | 1221.2 | 1223.0 | 1222.2 | 1222.8 | 1224.6 | 1224.6 | 1223.6 | 1225.0 | 1224.6 |
| 12.5° | 1257.0 | 1258.0 | 1257.8 | 1257.6 | 1258.4 | 1259.0 | 1261.0 | 1261.4 | 1261.8 | 1264.0 | 1263.2 |
| 15° | 1290.0 | 1291.0 | 1291.8 | 1292.2 | 1293.6 | 1294.0 | 1295.2 | 1296.0 | 1296.6 | 1297.4 | 1297.8 |
| 17.5° | 1313.8 | 1314.2 | 1315.4 | 1314.8 | 1316.8 | 1316.4 | 1317.8 | 1318.4 | 1319.0 | 1320.0 | 1320.6 |
| 20° | 1325.0 | 1324.4 | 1324.6 | 1324.0 | 1324.0 | 1324.4 | 1324.6 | 1325.4 | 1325.0 | 1326.0 | 1326.8 |
| 22.5° | 1326.9 | 1325.0 | 1323.8 | 1322.4 | 1321.8 | 1320.6 | 1320.6 | 1321.0 | 1319.6 | 1320.6 | 1321.8 |
| 25° | 1326.0 | 1323.0 | 1320.8 | 1318.4 | 1316.2 | 1314.2 | 1313.0 | 1312.6 | 1311.6 | 1311.6 | 1312.6 |
| 27.5° | 1330.0 | 1326.2 | 1323.0 | 1319.0 | 1316.2 | 1313.4 | 1310.8 | 1308.8 | 1306.8 | 1306.4 | 1306.4 |
| 30° | 1341.8 | 1337.6 | 1334.0 | 1329.0 | 1324.6 | 1321.0 | 1317.4 | 1314.6 | 1310.8 | 1309.2 | 1307.4 |
| 32.5° | 1365.1 | 1361.6 | 1356.6 | 1352.2 | 1347.0 | 1342.6 | 1337.8 | 1333.4 | 1329.0 | 1325.0 | 1323.4 |
| 35° | 1402.5 | 1401.0 | 1398.2 | 1395.2 | 1390.2 | 1384.6 | 1380.6 | 1375.4 | 1370.4 | 1364.6 | 1363.0 |
| 37.5° | 1461.8 | 1465.2 | 1463.6 | 1461.4 | 1460.0 | 1458.2 | 1452.8 | 1449.4 | 1446.0 | 1441.2 | 1440.2 |
| 40° | 1535.2 | 1544.6 | 1554.0 | 1560.2 | 1558.0 | 1565.4 | 1566.6 | 1567.2 | 1564.2 | 1568.2 | 1569.0 |
| 42.5° | 1629.8 | 1647.8 | 1664.8 | 1677.2 | 1691.6 | 1702.4 | 1716.4 | 1722.4 | 1733.8 | 1745.6 | 1752.4 |
| 45° | 1729.2 | 1755.2 | 1779.6 | 1805.0 | 1830.0 | 1857.4 | 1884.0 | 1902.8 | 1930.2 | 1950.6 | 1963.4 |
| 47.5° | 1837.7 | 1872.2 | 1901.4 | 1939.4 | 1975.6 | 2008.0 | 2054.6 | 2092.0 | 2125.4 | 2157.2 | 2190.6 |
| 50° | 1952.5 | 1994.6 | 2030.6 | 2077.0 | 2121.0 | 2171.8 | 2226.4 | 2274.0 | 2326.4 | 2377.0 | 2422.0 |
| 52.5° | 2073.2 | 2123.2 | 2171.8 | 2219.4 | 2272.8 | 2328.0 | 2387.2 | 2456.0 | 2518.8 | 2595.0 | 2649.6 |
| 55° | 2196.8 | 2257.4 | 2309.2 | 2359.0 | 2415.6 | 2476.8 | 2547.2 | 2628.6 | 2708.4 | 2791.8 | 2874.6 |
| 57.5° | 2298.6 | 2374.2 | 2430.8 | 2489.0 | 2550.0 | 2610.6 | 2698.0 | 2781.4 | 2882.6 | 2985.0 | 3088.6 |
| 60° | 2369.4 | 2470.4 | 2539.0 | 2612.6 | 2683.2 | 2756.8 | 2851.0 | 2956.4 | 3083.0 | 3207.0 | 3347.8 |
| 62.5° | 2448.8 | 2590.4 | 2686.6 | 2784.8 | 2870.6 | 2959.0 | 3085.0 | 3206.4 | 3369.0 | 3511.8 | 3689.0 |
| 65° | 2564.2 | 2755.4 | 2897.0 | 3029.4 | 3144.6 | 3265.0 | 3414.4 | 3566.2 | 3752.2 | 3949.6 | 4171.8 |
| 67.5° | 2620.2 | 2841.0 | 3026.4 | 3189.8 | 3337.0 | 3490.4 | 3644.6 | 3824.2 | 4033.8 | 4271.4 | 4515.4 |
| 69° | 2507.1 | 2726.0 | 2939.2 | 3104.4 | 3259.4 | 3423.2 | 3588.2 | 3769.4 | 3975.8 | 4222.4 | 4481.0 |
| 70° | 2350.8 | 2562.0 | 2788.6 | 2954.2 | 3110.6 | 3280.6 | 3448.6 | 3631.6 | 3829.0 | 4083.0 | 4344.6 |
| 72.5° | 1778.8 | 1957.8 | 2177.8 | 2352.8 | 2517.2 | 2689.0 | 2862.0 | 3020.8 | 3221.0 | 3465.4 | 3706.4 |
| 75° | 1107.5 | 1230.2 | 1428.0 | 1603.8 | 1736.0 | 1883.2 | 2045.6 | 2196.0 | 2397.0 | 2570.2 | 2802.0 |
| 77.5° | 592.6 | 652.2 | 767.6 | 893.6 | 967.2 | 1039.0 | 1144.8 | 1226.4 | 1311.0 | 1411.2 | 1507.0 |
| 80° | 360.2 | 384.2 | 423.6 | 450.8 | 440.6 | 411.2 | 401.8 | 372.4 | 383.0 | 365.0 | 352.0 |
| 82.5° | 305.7 | 322.0 | 346.0 | 362.4 | 350.4 | 303.4 | 250.2 | 210.6 | 182.6 | 155.8 | 132.4 |
| 85° | 232.6 | 244.4 | 256.8 | 264.2 | 263.6 | 240.2 | 190.8 | 147.8 | 115.2 | 89.2 | 74.2 |
| 87.5° | 91.1 | 97.2 | 106.2 | 104.8 | 109.4 | 110.2 | 86.2 | 66.6 | 47.4 | 32.0 | 28.0 |
| 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: P144670

CATALOG NUMBER: CNC-E02-LED-E1-RW

CANDELA DISTRIBUTION (continued):

| | 80° | 81° | 82° | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 |
| 2.5° | 1153.2 | 1153.0 | 1153.2 | 1153.8 | 1153.8 | 1154.2 | 1153.8 | 1154.0 | 1153.4 | 1152.8 | 1153.2 |
| 5° | 1167.4 | 1167.0 | 1167.4 | 1167.8 | 1167.8 | 1167.4 | 1168.4 | 1168.4 | 1168.0 | 1167.4 | 1167.6 |
| 7.5° | 1191.8 | 1192.0 | 1191.4 | 1193.4 | 1191.6 | 1191.8 | 1193.0 | 1192.8 | 1192.4 | 1192.6 | 1192.8 |
| 10° | 1225.8 | 1225.6 | 1226.0 | 1227.2 | 1225.4 | 1226.6 | 1228.0 | 1228.4 | 1227.4 | 1227.4 | 1227.6 |
| 12.5° | 1263.4 | 1265.0 | 1265.2 | 1266.0 | 1266.0 | 1267.0 | 1267.2 | 1267.4 | 1268.2 | 1268.4 | 1267.2 |
| 15° | 1299.4 | 1300.6 | 1301.4 | 1302.2 | 1301.2 | 1302.6 | 1304.2 | 1304.2 | 1304.0 | 1304.8 | 1303.6 |
| 17.5° | 1321.6 | 1322.6 | 1324.0 | 1323.8 | 1324.0 | 1325.2 | 1326.2 | 1326.6 | 1327.0 | 1327.0 | 1327.2 |
| 20° | 1328.6 | 1329.2 | 1330.0 | 1330.8 | 1331.2 | 1332.4 | 1333.2 | 1333.8 | 1334.2 | 1333.8 | 1334.0 |
| 22.5° | 1323.0 | 1323.8 | 1325.4 | 1326.0 | 1326.2 | 1328.0 | 1328.8 | 1329.4 | 1329.8 | 1330.2 | 1329.6 |
| 25° | 1313.4 | 1314.2 | 1315.8 | 1316.4 | 1316.8 | 1318.4 | 1319.4 | 1320.8 | 1321.2 | 1321.4 | 1321.6 |
| 27.5° | 1306.8 | 1307.2 | 1308.4 | 1309.2 | 1309.4 | 1311.2 | 1312.6 | 1313.6 | 1313.8 | 1314.0 | 1314.0 |
| 30° | 1307.0 | 1307.0 | 1308.4 | 1308.6 | 1308.4 | 1310.0 | 1310.8 | 1311.4 | 1311.8 | 1311.8 | 1312.0 |
| 32.5° | 1320.8 | 1320.0 | 1321.2 | 1319.4 | 1319.6 | 1319.4 | 1319.2 | 1319.8 | 1319.4 | 1319.6 | 1318.8 |
| 35° | 1359.8 | 1357.6 | 1355.8 | 1356.6 | 1353.8 | 1349.8 | 1352.0 | 1351.0 | 1348.8 | 1349.0 | 1349.6 |
| 37.5° | 1434.6 | 1432.4 | 1434.4 | 1432.6 | 1433.2 | 1427.6 | 1429.0 | 1424.0 | 1422.6 | 1424.4 | 1419.2 |
| 40° | 1567.4 | 1566.4 | 1570.2 | 1568.6 | 1569.6 | 1571.2 | 1572.6 | 1567.8 | 1559.8 | 1567.0 | 1567.2 |
| 42.5° | 1751.4 | 1760.4 | 1764.0 | 1769.0 | 1774.4 | 1772.0 | 1776.8 | 1778.2 | 1769.4 | 1776.0 | 1777.6 |
| 45° | 1982.2 | 1991.8 | 2003.0 | 2006.4 | 2015.2 | 2016.4 | 2020.0 | 2021.0 | 2013.0 | 2013.8 | 2015.6 |
| 47.5° | 2224.0 | 2241.6 | 2254.8 | 2264.0 | 2273.2 | 2275.0 | 2277.0 | 2273.2 | 2273.8 | 2275.6 | 2275.6 |
| 50° | 2461.6 | 2499.2 | 2522.6 | 2540.8 | 2556.6 | 2548.4 | 2555.4 | 2556.0 | 2558.4 | 2553.4 | 2556.4 |
| 52.5° | 2711.4 | 2761.2 | 2800.4 | 2831.0 | 2840.6 | 2869.8 | 2857.8 | 2867.0 | 2873.2 | 2864.0 | 2870.0 |
| 55° | 2955.4 | 3026.4 | 3089.4 | 3133.8 | 3165.0 | 3194.6 | 3199.2 | 3223.0 | 3220.2 | 3229.2 | 3225.2 |
| 57.5° | 3187.4 | 3286.6 | 3376.6 | 3442.4 | 3487.2 | 3532.4 | 3563.0 | 3589.0 | 3591.6 | 3617.4 | 3602.8 |
| 60° | 3468.0 | 3606.2 | 3722.0 | 3820.0 | 3886.2 | 3953.4 | 4006.4 | 4049.0 | 4058.8 | 4103.0 | 4088.4 |
| 62.5° | 3846.6 | 4015.2 | 4163.2 | 4278.2 | 4425.6 | 4496.6 | 4599.8 | 4664.2 | 4704.4 | 4715.4 | 4736.0 |
| 65° | 4378.8 | 4598.4 | 4793.6 | 4977.6 | 5143.4 | 5258.4 | 5377.8 | 5473.8 | 5550.8 | 5544.4 | 5576.0 |
| 67.5° | 4774.2 | 5024.6 | 5259.6 | 5480.2 | 5658.6 | 5806.6 | 5943.8 | 6047.6 | 6116.4 | 6160.2 | 6178.8 |
| 69° | 4733.0 | 5001.8 | 5261.0 | 5496.6 | 5680.6 | 5846.0 | 5979.6 | 6081.8 | 6160.6 | 6208.2 | 6222.0 |
| 70° | 4596.0 | 4872.2 | 5142.4 | 5373.6 | 5561.2 | 5742.8 | 5878.8 | 5992.6 | 6067.6 | 6119.6 | 6127.6 |
| 72.5° | 3975.4 | 4274.6 | 4513.6 | 4765.8 | 4946.4 | 5130.2 | 5215.8 | 5356.8 | 5454.6 | 5486.2 | 5485.6 |
| 75° | 2998.4 | 3248.0 | 3458.0 | 3644.4 | 3806.0 | 3930.6 | 3971.0 | 4071.4 | 4152.6 | 4151.6 | 4144.0 |
| 77.5° | 1614.6 | 1673.4 | 1752.0 | 1778.4 | 1828.2 | 1827.4 | 1777.4 | 1793.2 | 1839.2 | 1750.0 | 1778.8 |
| 80° | 346.4 | 341.2 | 336.8 | 334.2 | 332.8 | 333.4 | 335.2 | 323.8 | 335.0 | 330.0 | 308.8 |
| 82.5° | 120.6 | 117.8 | 115.0 | 117.0 | 115.6 | 116.8 | 116.4 | 117.8 | 117.6 | 117.2 | 114.4 |
| 85° | 67.8 | 65.4 | 64.0 | 65.0 | 62.8 | 60.8 | 59.4 | 58.8 | 58.6 | 57.2 | 56.4 |
| 87.5° | 25.8 | 25.6 | 25.4 | 24.4 | 22.0 | 20.2 | 19.0 | 16.6 | 15.6 | 14.2 | 13.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)