

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: P140832

Luminaire Tested: **CEM-E02-LED-E-U-RW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P140832
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33689)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CEM-E02-LED-E-U-RW-7060
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (42) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6069 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): 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

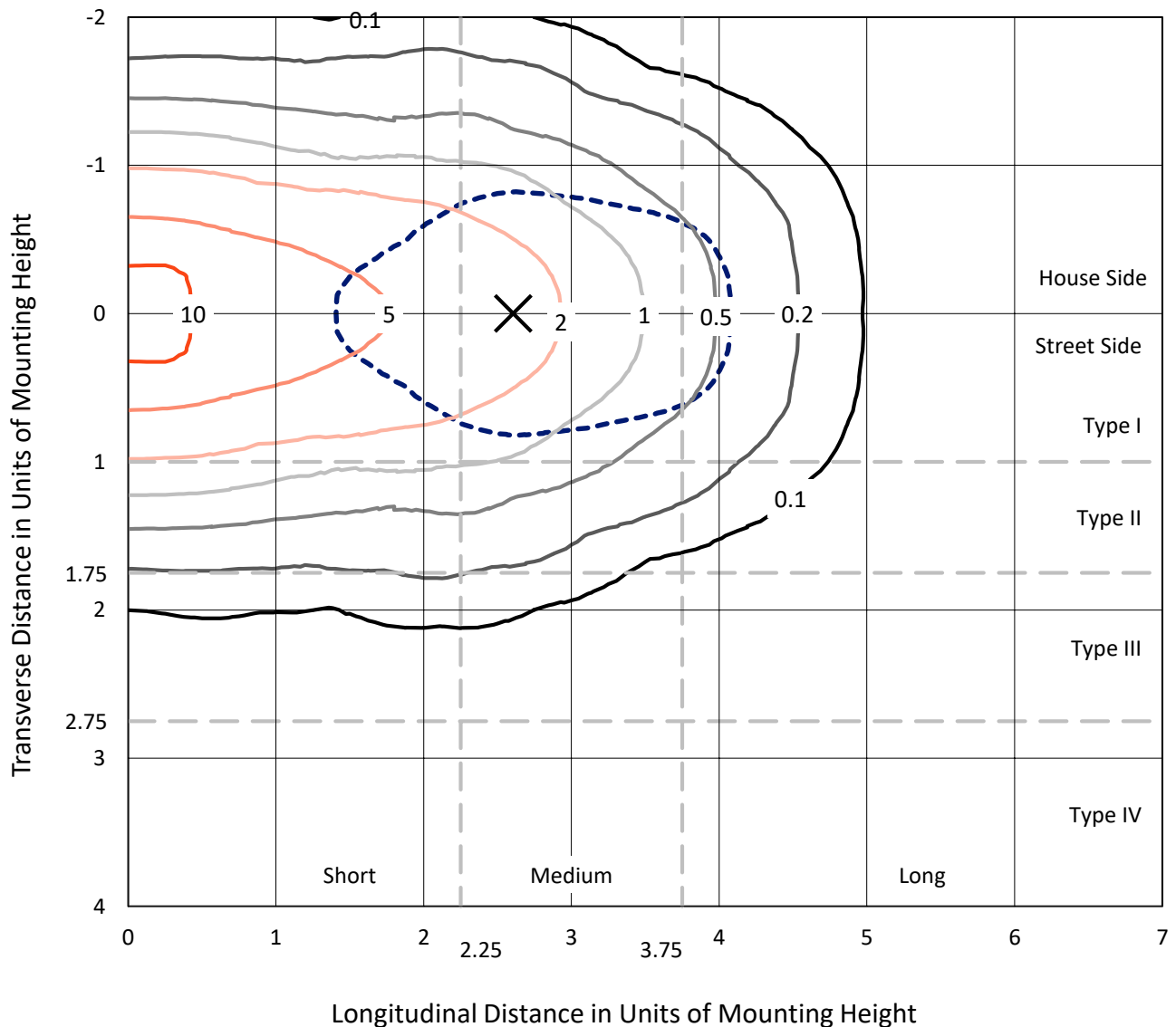


REPORT NUMBER: P140832

CATALOG NUMBER: CEM-E02-LED-E-U-RW-7060

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

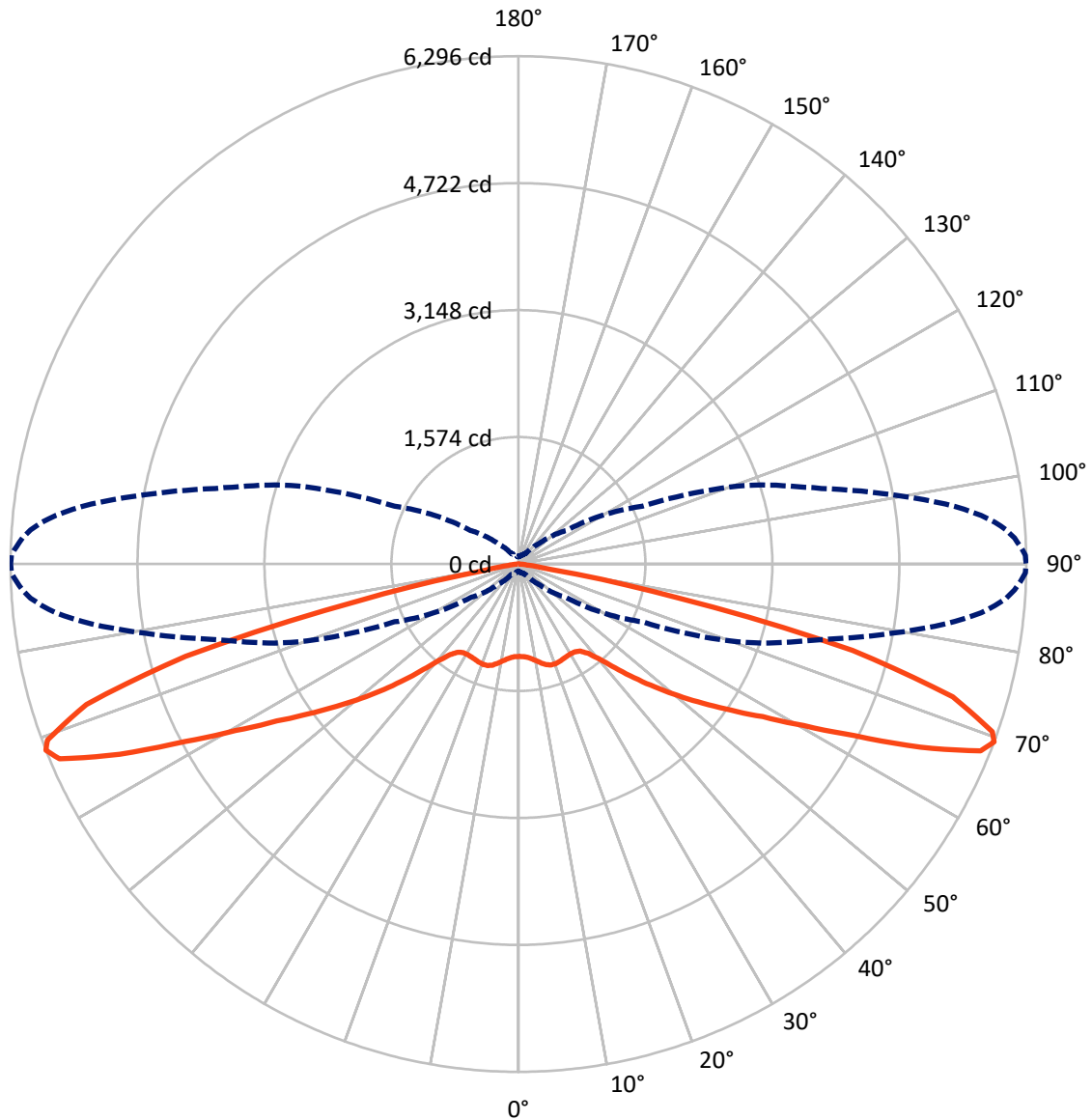


Based on 10 foot mounting height. Maximum calculated value = 11.7 fc
 Type V - Medium - Full Cutoff

REPORT NUMBER: P140832

CATALOG NUMBER: CEM-E02-LED-E-U-RW-7060

Luminous Intensity Polar Plot



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

REPORT NUMBER: P140832

CATALOG NUMBER: CEM-E02-LED-E-U-RW-7060

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3034.5 | 0.0 | 3034.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3034.5 | 0.0 | 3034.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6069.0 | 0.0 | 6069.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 112.2 | 1.8 |
| 10°-20° | 352.7 | 5.8 |
| 20°-30° | 570.4 | 9.4 |
| 30°-40° | 712.4 | 11.7 |
| 40°-50° | 891.1 | 14.7 |
| 50°-60° | 1098.0 | 18.1 |
| 60°-70° | 1359.4 | 22.4 |
| 70°-80° | 888.5 | 14.6 |
| 80°-90° | 84.4 | 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° | 6069.0 | 100.0 |
| 0°-180° | 6069.0 | 100.0 |



REPORT NUMBER: P140832

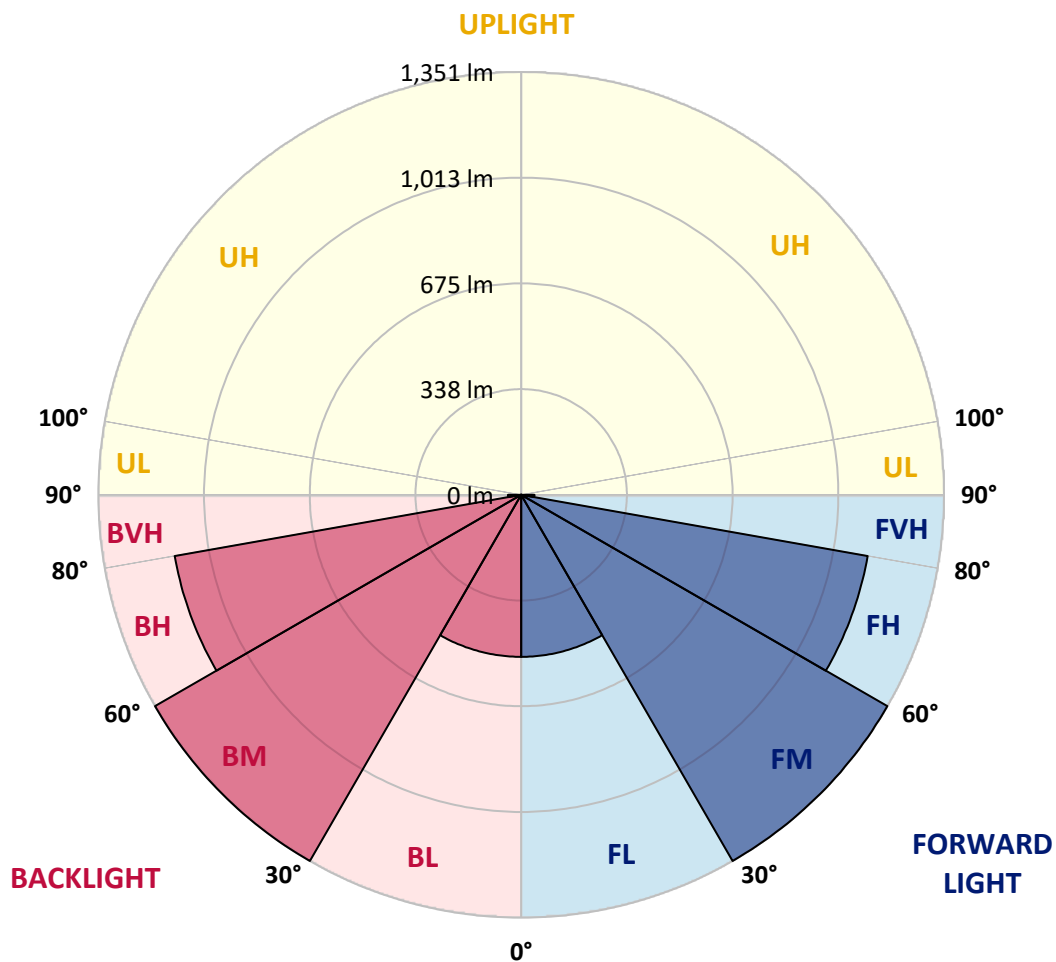
CATALOG NUMBER: CEM-E02-LED-E-U-RW-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 517.6 | 8.5 | | | |
| FM (30°-60°) | 1350.8 | 22.3 | | | |
| FH (60°-80°) | 1123.9 | 18.5 | | | G1/1800 |
| FVH (80°-90°) | 42.2 | 0.7 | | | G1/100 |
| BL (0°-30°) | 517.6 | 8.5 | B2/1000 | | |
| BM (30°-60°) | 1350.8 | 22.3 | B2/2500 | | |
| BH (60°-80°) | 1123.9 | 18.5 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 42.2 | 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-G1

Type V Medium





REPORT NUMBER: P140832

CATALOG NUMBER: CEM-E02-LED-E-U-RW-7060

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1145.8 | 1145.8 | 1145.8 | 1145.8 | 1145.8 | 1145.8 | 1145.8 | 1145.8 | 1145.8 | 1145.8 | 1145.8 |
| 2.5° | 1153.4 | 1154.0 | 1152.0 | 1152.6 | 1153.4 | 1152.6 | 1151.6 | 1151.6 | 1151.3 | 1150.9 | 1150.6 |
| 5° | 1160.9 | 1161.2 | 1160.2 | 1161.9 | 1162.2 | 1163.3 | 1163.2 | 1163.6 | 1163.4 | 1163.2 | 1163.0 |
| 7.5° | 1171.4 | 1172.8 | 1171.8 | 1174.2 | 1176.6 | 1180.0 | 1181.8 | 1185.8 | 1185.8 | 1185.7 | 1185.6 |
| 10° | 1181.4 | 1182.8 | 1182.8 | 1188.2 | 1194.0 | 1200.5 | 1207.4 | 1213.8 | 1214.3 | 1214.7 | 1215.1 |
| 12.5° | 1188.9 | 1189.9 | 1191.6 | 1201.6 | 1214.6 | 1225.5 | 1237.5 | 1247.8 | 1248.2 | 1248.6 | 1249.0 |
| 15° | 1185.8 | 1188.2 | 1196.1 | 1211.8 | 1234.7 | 1252.9 | 1267.6 | 1279.9 | 1280.7 | 1281.5 | 1282.4 |
| 17.5° | 1175.2 | 1179.0 | 1190.3 | 1217.0 | 1252.2 | 1281.2 | 1298.7 | 1302.1 | 1302.6 | 1303.2 | 1303.8 |
| 20° | 1152.4 | 1157.8 | 1175.6 | 1213.6 | 1265.6 | 1304.8 | 1322.3 | 1316.2 | 1315.6 | 1315.0 | 1314.5 |
| 22.5° | 1114.0 | 1121.2 | 1143.4 | 1197.4 | 1266.6 | 1322.0 | 1339.1 | 1322.0 | 1320.0 | 1318.1 | 1316.2 |
| 25° | 1062.7 | 1068.6 | 1093.8 | 1157.8 | 1250.8 | 1325.0 | 1349.7 | 1325.8 | 1322.7 | 1319.6 | 1316.5 |
| 27.5° | 1000.4 | 1005.2 | 1036.7 | 1104.8 | 1211.8 | 1309.3 | 1356.5 | 1332.2 | 1328.3 | 1324.3 | 1320.3 |
| 30° | 930.4 | 934.4 | 969.0 | 1041.5 | 1157.1 | 1274.8 | 1355.8 | 1346.9 | 1342.2 | 1337.5 | 1332.7 |
| 32.5° | 860.6 | 862.3 | 893.0 | 972.8 | 1096.2 | 1223.8 | 1344.5 | 1369.5 | 1364.9 | 1360.3 | 1355.8 |
| 35° | 784.0 | 789.4 | 822.2 | 909.1 | 1027.4 | 1167.8 | 1329.5 | 1401.0 | 1398.4 | 1395.8 | 1393.2 |
| 37.5° | 722.4 | 724.1 | 759.3 | 849.6 | 971.8 | 1116.8 | 1310.4 | 1441.4 | 1443.2 | 1445.0 | 1446.9 |
| 40° | 660.8 | 660.8 | 695.7 | 789.4 | 916.0 | 1070.9 | 1294.2 | 1490.9 | 1500.3 | 1509.7 | 1519.0 |
| 42.5° | 593.4 | 598.2 | 632.4 | 725.8 | 861.9 | 1032.0 | 1286.0 | 1550.4 | 1568.1 | 1585.8 | 1603.4 |
| 45° | 530.5 | 533.6 | 568.4 | 659.8 | 794.6 | 987.4 | 1283.6 | 1616.8 | 1643.6 | 1670.4 | 1697.2 |
| 47.5° | 468.6 | 473.0 | 506.2 | 590.0 | 721.0 | 928.2 | 1280.6 | 1692.4 | 1726.7 | 1760.9 | 1795.2 |
| 50° | 411.2 | 413.8 | 450.8 | 527.0 | 648.5 | 851.6 | 1260.4 | 1776.8 | 1818.7 | 1860.6 | 1902.5 |
| 52.5° | 350.2 | 355.7 | 386.2 | 464.8 | 575.3 | 769.2 | 1207.4 | 1868.9 | 1919.5 | 1970.1 | 2020.8 |
| 55° | 286.6 | 285.3 | 321.8 | 395.7 | 511.4 | 690.2 | 1109.6 | 1948.6 | 2009.7 | 2070.8 | 2131.8 |
| 57.5° | 210.0 | 214.5 | 248.0 | 322.9 | 437.1 | 623.8 | 994.3 | 1990.0 | 2066.2 | 2142.4 | 2218.6 |
| 60° | 150.5 | 156.6 | 185.7 | 244.9 | 363.2 | 558.8 | 876.6 | 1961.2 | 2062.2 | 2163.2 | 2264.1 |
| 62.5° | 117.6 | 120.4 | 145.4 | 183.6 | 283.2 | 490.8 | 797.6 | 1886.6 | 2025.9 | 2165.1 | 2304.3 |
| 65° | 102.6 | 105.6 | 127.9 | 147.8 | 215.2 | 426.2 | 750.1 | 1827.2 | 2010.9 | 2194.6 | 2378.4 |
| 67.5° | 93.4 | 97.2 | 116.3 | 130.0 | 176.4 | 371.1 | 738.8 | 1778.6 | 1994.1 | 2209.7 | 2425.2 |
| 69° | 89.0 | 92.7 | 110.5 | 123.1 | 163.9 | 353.7 | 725.8 | 1696.8 | 1915.6 | 2134.3 | 2353.1 |
| 70° | 86.8 | 90.0 | 107.0 | 119.0 | 159.7 | 343.4 | 696.4 | 1603.4 | 1814.9 | 2026.3 | 2237.8 |
| 72.5° | 80.0 | 81.8 | 97.5 | 109.2 | 151.2 | 287.3 | 551.7 | 1200.2 | 1376.9 | 1553.6 | 1730.3 |
| 75° | 70.8 | 73.5 | 87.9 | 99.8 | 121.4 | 184.0 | 361.9 | 725.4 | 856.3 | 987.2 | 1118.1 |
| 77.5° | 60.9 | 63.3 | 75.6 | 95.4 | 93.4 | 111.5 | 208.0 | 405.3 | 476.0 | 546.8 | 617.5 |
| 80° | 52.7 | 55.0 | 66.4 | 88.6 | 75.9 | 82.4 | 140.2 | 264.4 | 291.3 | 318.2 | 345.1 |
| 82.5° | 41.4 | 43.1 | 55.8 | 72.2 | 58.8 | 61.2 | 105.0 | 230.8 | 247.1 | 263.3 | 279.5 |
| 85° | 26.4 | 27.4 | 40.7 | 49.2 | 41.0 | 36.2 | 66.0 | 169.3 | 182.1 | 194.9 | 207.7 |
| 87.5° | 9.2 | 13.0 | 18.1 | 17.1 | 17.1 | 13.0 | 23.2 | 62.6 | 67.6 | 72.6 | 77.6 |
| 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: P140832

CATALOG NUMBER: CEM-E02-LED-E-U-RW-7060

CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1145.8 | 1145.8 | 1145.8 | 1145.8 | 1145.8 | 1145.8 | 1145.8 | 1145.8 | 1145.8 | 1145.8 | 1145.8 |
| 2.5° | 1150.2 | 1149.9 | 1150.2 | 1150.2 | 1149.9 | 1149.6 | 1149.6 | 1149.2 | 1148.6 | 1148.6 | 1148.2 |
| 5° | 1162.8 | 1162.6 | 1163.3 | 1162.9 | 1163.2 | 1162.9 | 1162.9 | 1162.6 | 1162.9 | 1161.6 | 1161.2 |
| 7.5° | 1185.6 | 1185.5 | 1185.5 | 1186.6 | 1185.8 | 1185.5 | 1186.2 | 1186.2 | 1186.2 | 1185.5 | 1185.5 |
| 10° | 1215.5 | 1216.0 | 1216.6 | 1217.3 | 1217.3 | 1217.3 | 1218.6 | 1217.6 | 1219.7 | 1217.6 | 1218.7 |
| 12.5° | 1249.4 | 1249.8 | 1251.5 | 1252.2 | 1252.8 | 1252.8 | 1252.8 | 1254.9 | 1256.3 | 1256.0 | 1256.3 |
| 15° | 1283.2 | 1284.0 | 1284.4 | 1285.4 | 1285.4 | 1285.7 | 1287.0 | 1289.5 | 1288.8 | 1290.2 | 1290.2 |
| 17.5° | 1304.3 | 1304.8 | 1304.5 | 1304.6 | 1305.2 | 1306.2 | 1307.6 | 1309.0 | 1308.6 | 1309.6 | 1310.4 |
| 20° | 1314.0 | 1313.4 | 1312.4 | 1311.7 | 1311.4 | 1312.0 | 1312.1 | 1312.4 | 1313.1 | 1313.0 | 1313.0 |
| 22.5° | 1314.3 | 1312.4 | 1310.0 | 1308.6 | 1306.9 | 1305.9 | 1306.6 | 1305.9 | 1305.8 | 1305.9 | 1305.2 |
| 25° | 1313.4 | 1310.4 | 1306.6 | 1303.8 | 1301.1 | 1299.4 | 1297.7 | 1297.0 | 1295.6 | 1295.6 | 1295.6 |
| 27.5° | 1316.4 | 1312.4 | 1308.6 | 1303.5 | 1299.8 | 1297.7 | 1295.3 | 1292.9 | 1291.6 | 1290.2 | 1290.2 |
| 30° | 1328.0 | 1323.3 | 1318.6 | 1312.4 | 1307.2 | 1305.6 | 1301.1 | 1298.8 | 1295.3 | 1293.6 | 1292.9 |
| 32.5° | 1351.2 | 1346.6 | 1340.1 | 1333.2 | 1329.2 | 1324.0 | 1320.3 | 1315.1 | 1311.4 | 1309.0 | 1305.9 |
| 35° | 1390.6 | 1388.0 | 1382.5 | 1378.1 | 1371.9 | 1366.1 | 1358.6 | 1355.8 | 1348.0 | 1346.6 | 1342.8 |
| 37.5° | 1448.7 | 1450.6 | 1449.6 | 1446.2 | 1442.0 | 1436.9 | 1433.8 | 1428.0 | 1424.9 | 1421.8 | 1418.4 |
| 40° | 1528.4 | 1537.8 | 1540.9 | 1544.6 | 1545.6 | 1550.1 | 1545.0 | 1544.2 | 1540.1 | 1543.6 | 1541.6 |
| 42.5° | 1621.0 | 1638.7 | 1648.3 | 1659.6 | 1671.8 | 1683.2 | 1692.0 | 1707.1 | 1705.4 | 1717.0 | 1725.2 |
| 45° | 1724.0 | 1750.8 | 1775.6 | 1794.3 | 1817.9 | 1843.9 | 1866.8 | 1888.0 | 1912.0 | 1925.6 | 1945.8 |
| 47.5° | 1829.5 | 1863.8 | 1899.0 | 1933.8 | 1967.4 | 2000.9 | 2042.0 | 2079.2 | 2115.4 | 2140.1 | 2171.2 |
| 50° | 1944.3 | 1986.2 | 2028.6 | 2071.4 | 2118.9 | 2171.6 | 2217.4 | 2266.0 | 2315.9 | 2366.6 | 2402.1 |
| 52.5° | 2071.4 | 2122.0 | 2168.2 | 2213.3 | 2272.2 | 2327.9 | 2387.4 | 2448.3 | 2523.8 | 2579.0 | 2627.8 |
| 55° | 2192.9 | 2254.0 | 2304.6 | 2358.7 | 2420.2 | 2482.1 | 2555.0 | 2631.2 | 2711.4 | 2790.6 | 2862.4 |
| 57.5° | 2294.8 | 2371.0 | 2431.2 | 2484.9 | 2550.9 | 2622.4 | 2700.7 | 2795.1 | 2886.4 | 2985.0 | 3077.6 |
| 60° | 2365.1 | 2466.1 | 2538.6 | 2603.2 | 2679.9 | 2759.2 | 2861.5 | 2973.0 | 3093.0 | 3215.4 | 3334.5 |
| 62.5° | 2443.5 | 2582.7 | 2681.9 | 2774.2 | 2864.8 | 2953.2 | 3068.4 | 3207.0 | 3369.8 | 3517.8 | 3675.5 |
| 65° | 2562.1 | 2745.9 | 2892.2 | 3009.9 | 3138.5 | 3267.1 | 3401.6 | 3563.4 | 3748.4 | 3964.6 | 4148.2 |
| 67.5° | 2640.8 | 2856.4 | 3042.5 | 3211.0 | 3361.2 | 3517.5 | 3687.2 | 3880.8 | 4104.1 | 4324.7 | 4553.2 |
| 69° | 2571.9 | 2790.6 | 2987.3 | 3173.1 | 3337.6 | 3505.8 | 3678.2 | 3873.2 | 4101.4 | 4345.2 | 4586.4 |
| 70° | 2449.2 | 2660.6 | 2863.9 | 3059.5 | 3220.3 | 3396.0 | 3565.7 | 3751.4 | 3982.6 | 4226.6 | 4488.9 |
| 72.5° | 1907.0 | 2083.7 | 2292.3 | 2481.2 | 2673.0 | 2833.4 | 2986.6 | 3173.0 | 3406.4 | 3638.6 | 3894.0 |
| 75° | 1248.9 | 1379.8 | 1570.6 | 1725.9 | 1891.8 | 2042.3 | 2153.4 | 2338.5 | 2480.1 | 2698.6 | 2936.0 |
| 77.5° | 688.3 | 759.0 | 858.2 | 984.7 | 1056.2 | 1141.0 | 1252.2 | 1319.6 | 1420.1 | 1573.0 | 1644.2 |
| 80° | 372.0 | 398.8 | 440.5 | 466.8 | 488.1 | 467.2 | 456.0 | 476.1 | 467.6 | 465.2 | 442.3 |
| 82.5° | 295.7 | 312.0 | 333.5 | 348.8 | 339.0 | 294.2 | 246.6 | 212.0 | 189.8 | 159.8 | 136.8 |
| 85° | 220.5 | 233.2 | 241.5 | 251.8 | 250.0 | 226.0 | 181.0 | 139.8 | 109.8 | 87.6 | 76.2 |
| 87.5° | 82.6 | 87.6 | 89.9 | 109.4 | 100.6 | 95.4 | 74.2 | 54.0 | 41.4 | 30.1 | 24.2 |
| 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: P140832

CATALOG NUMBER: CEM-E02-LED-E-U-RW-7060

CANDELA DISTRIBUTION (continued):

| | 80° | 81° | 82° | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1145.8 | 1145.8 | 1145.8 | 1145.8 | 1145.8 | 1145.8 | 1145.8 | 1145.8 | 1145.8 | 1145.8 | 1145.8 |
| 2.5° | 1148.9 | 1148.6 | 1148.6 | 1148.6 | 1148.9 | 1148.2 | 1147.6 | 1148.2 | 1147.9 | 1147.9 | 1147.9 |
| 5° | 1162.6 | 1162.2 | 1162.2 | 1162.6 | 1162.2 | 1162.6 | 1162.2 | 1160.9 | 1161.6 | 1161.9 | 1162.2 |
| 7.5° | 1186.2 | 1185.8 | 1185.8 | 1187.6 | 1187.2 | 1186.8 | 1186.5 | 1187.2 | 1186.2 | 1186.2 | 1186.9 |
| 10° | 1218.6 | 1220.1 | 1219.7 | 1220.7 | 1220.4 | 1219.7 | 1219.0 | 1219.7 | 1220.7 | 1221.1 | 1219.7 |
| 12.5° | 1258.4 | 1258.7 | 1258.0 | 1259.7 | 1258.7 | 1261.0 | 1258.4 | 1259.7 | 1261.1 | 1259.1 | 1260.1 |
| 15° | 1290.5 | 1290.5 | 1291.8 | 1292.2 | 1291.9 | 1292.6 | 1294.6 | 1293.6 | 1292.6 | 1294.2 | 1294.9 |
| 17.5° | 1310.0 | 1311.0 | 1311.4 | 1311.7 | 1312.4 | 1313.1 | 1313.4 | 1313.1 | 1313.4 | 1314.1 | 1315.5 |
| 20° | 1314.4 | 1314.1 | 1314.8 | 1315.2 | 1316.2 | 1316.2 | 1316.8 | 1316.5 | 1317.5 | 1317.8 | 1318.2 |
| 22.5° | 1306.6 | 1306.9 | 1307.3 | 1308.2 | 1308.0 | 1308.6 | 1309.0 | 1310.0 | 1309.6 | 1310.3 | 1310.7 |
| 25° | 1296.0 | 1296.6 | 1297.0 | 1296.6 | 1296.6 | 1297.0 | 1297.4 | 1297.0 | 1298.4 | 1299.0 | 1299.0 |
| 27.5° | 1289.2 | 1289.2 | 1290.2 | 1289.8 | 1289.1 | 1289.8 | 1289.5 | 1289.4 | 1289.4 | 1289.8 | 1290.8 |
| 30° | 1291.8 | 1290.8 | 1290.2 | 1290.2 | 1289.8 | 1289.2 | 1288.4 | 1287.4 | 1287.4 | 1287.8 | 1287.4 |
| 32.5° | 1306.6 | 1304.5 | 1303.5 | 1302.5 | 1301.8 | 1300.1 | 1298.0 | 1297.3 | 1295.6 | 1295.6 | 1294.9 |
| 35° | 1344.2 | 1341.8 | 1341.8 | 1338.0 | 1336.0 | 1334.9 | 1333.2 | 1328.1 | 1328.4 | 1326.4 | 1325.7 |
| 37.5° | 1419.1 | 1415.0 | 1413.3 | 1416.7 | 1410.2 | 1412.9 | 1407.1 | 1404.8 | 1406.1 | 1402.4 | 1404.4 |
| 40° | 1544.9 | 1551.5 | 1548.8 | 1552.5 | 1554.2 | 1554.9 | 1554.8 | 1549.0 | 1554.9 | 1545.6 | 1548.7 |
| 42.5° | 1726.6 | 1743.7 | 1749.8 | 1751.9 | 1762.5 | 1759.8 | 1756.7 | 1756.4 | 1756.0 | 1760.5 | 1758.1 |
| 45° | 1955.0 | 1957.4 | 1986.6 | 1992.0 | 1997.8 | 2004.3 | 2002.6 | 2010.2 | 2015.6 | 2008.0 | 2009.1 |
| 47.5° | 2188.7 | 2213.0 | 2234.2 | 2245.8 | 2258.4 | 2252.0 | 2257.1 | 2260.2 | 2279.6 | 2277.6 | 2275.9 |
| 50° | 2445.9 | 2486.6 | 2497.8 | 2510.6 | 2520.4 | 2540.3 | 2538.6 | 2550.6 | 2548.5 | 2564.6 | 2566.6 |
| 52.5° | 2689.8 | 2734.5 | 2780.1 | 2799.9 | 2815.0 | 2837.9 | 2846.8 | 2859.8 | 2855.0 | 2853.6 | 2865.6 |
| 55° | 2932.2 | 3007.2 | 3059.2 | 3110.1 | 3138.5 | 3169.0 | 3182.0 | 3200.4 | 3208.6 | 3212.4 | 3197.3 |
| 57.5° | 3172.7 | 3262.7 | 3350.6 | 3413.5 | 3457.3 | 3503.2 | 3527.4 | 3547.6 | 3571.2 | 3579.0 | 3571.5 |
| 60° | 3453.8 | 3585.6 | 3700.8 | 3785.0 | 3865.6 | 3915.6 | 3968.0 | 4006.3 | 4013.4 | 4046.0 | 4066.8 |
| 62.5° | 3828.4 | 3988.8 | 4134.8 | 4257.3 | 4382.5 | 4475.8 | 4570.3 | 4607.9 | 4645.2 | 4670.5 | 4685.9 |
| 65° | 4339.0 | 4550.4 | 4752.2 | 4926.3 | 5079.9 | 5235.2 | 5345.3 | 5403.1 | 5477.3 | 5492.0 | 5476.0 |
| 67.5° | 4786.8 | 5036.2 | 5286.8 | 5508.4 | 5674.4 | 5835.5 | 5966.1 | 6061.8 | 6131.3 | 6165.5 | 6179.9 |
| 69° | 4836.0 | 5089.5 | 5345.6 | 5566.6 | 5767.4 | 5928.2 | 6061.9 | 6157.0 | 6226.0 | 6285.2 | 6295.5 |
| 70° | 4735.2 | 5019.8 | 5268.7 | 5491.7 | 5698.7 | 5862.5 | 5982.2 | 6091.0 | 6169.6 | 6215.1 | 6231.2 |
| 72.5° | 4156.8 | 4412.6 | 4664.0 | 4920.9 | 5098.4 | 5295.0 | 5393.6 | 5480.8 | 5585.4 | 5645.0 | 5632.0 |
| 75° | 3150.2 | 3371.4 | 3590.6 | 3783.0 | 3919.8 | 3992.2 | 4107.5 | 4192.0 | 4176.6 | 4276.8 | 4279.5 |
| 77.5° | 1776.9 | 1805.6 | 1954.4 | 1934.6 | 2000.2 | 2002.0 | 2019.0 | 2048.8 | 1991.6 | 2109.0 | 2024.8 |
| 80° | 431.0 | 425.2 | 455.9 | 419.7 | 416.6 | 413.5 | 403.2 | 423.4 | 426.2 | 405.3 | 409.1 |
| 82.5° | 126.6 | 121.1 | 118.7 | 115.6 | 120.7 | 119.0 | 120.0 | 120.8 | 124.2 | 119.8 | 124.5 |
| 85° | 69.4 | 65.4 | 65.0 | 63.2 | 62.9 | 59.2 | 58.8 | 58.8 | 56.4 | 57.1 | 56.8 |
| 87.5° | 26.7 | 25.0 | 23.6 | 22.6 | 22.2 | 21.2 | 20.2 | 18.5 | 16.4 | 14.7 | 13.7 |
| 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)