

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: P149060

Luminaire Tested: **TMU-E02-LED-E-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P149060
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TMU-E02-LED-E-U-RW
Description: TALON MEDIUM LED AREA 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: 6247.9 lumens
Efficiency: N/A
Efficacy: 119.9 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

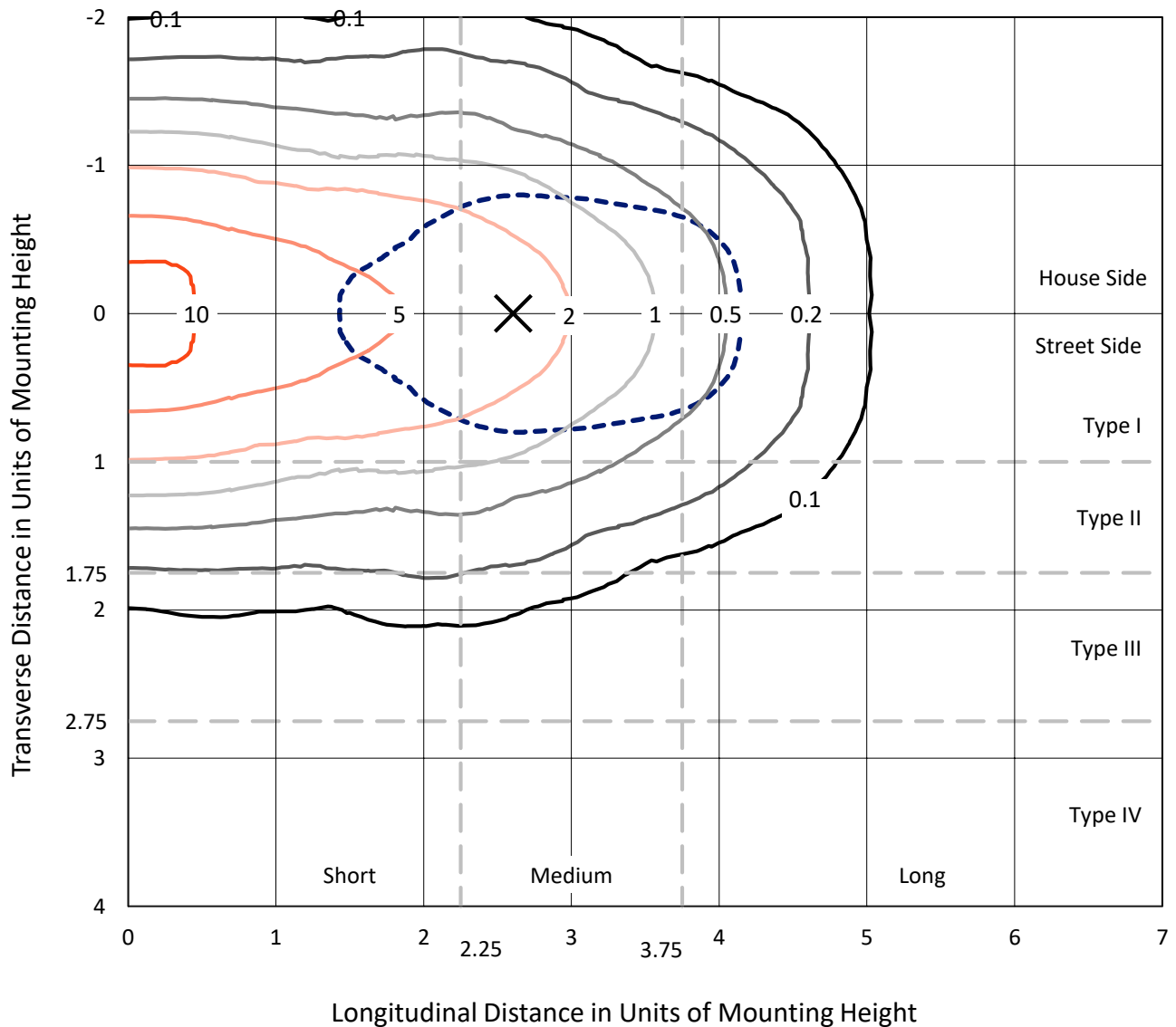


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

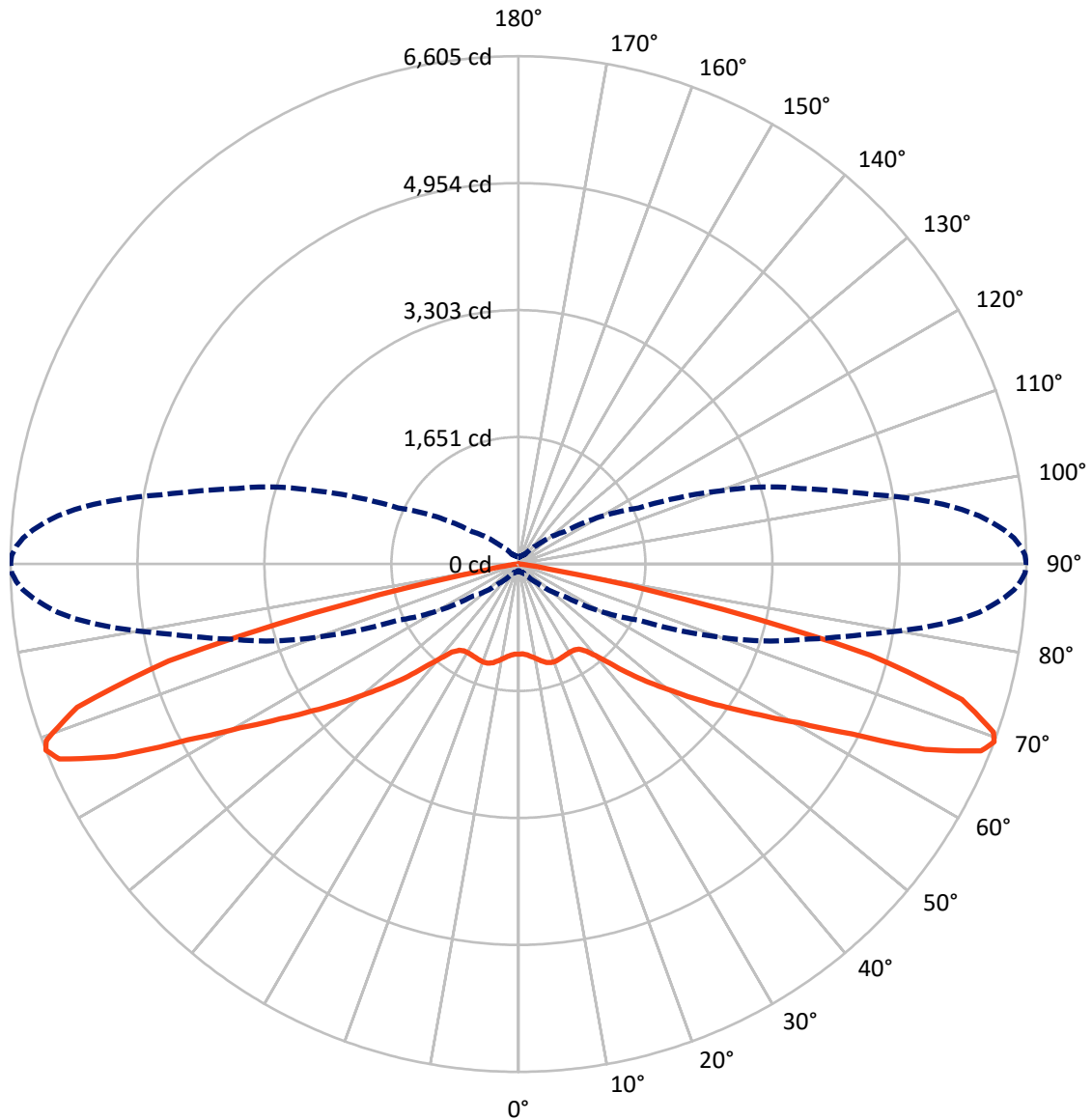


Based on 10 foot mounting height. Maximum calculated value = 12 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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



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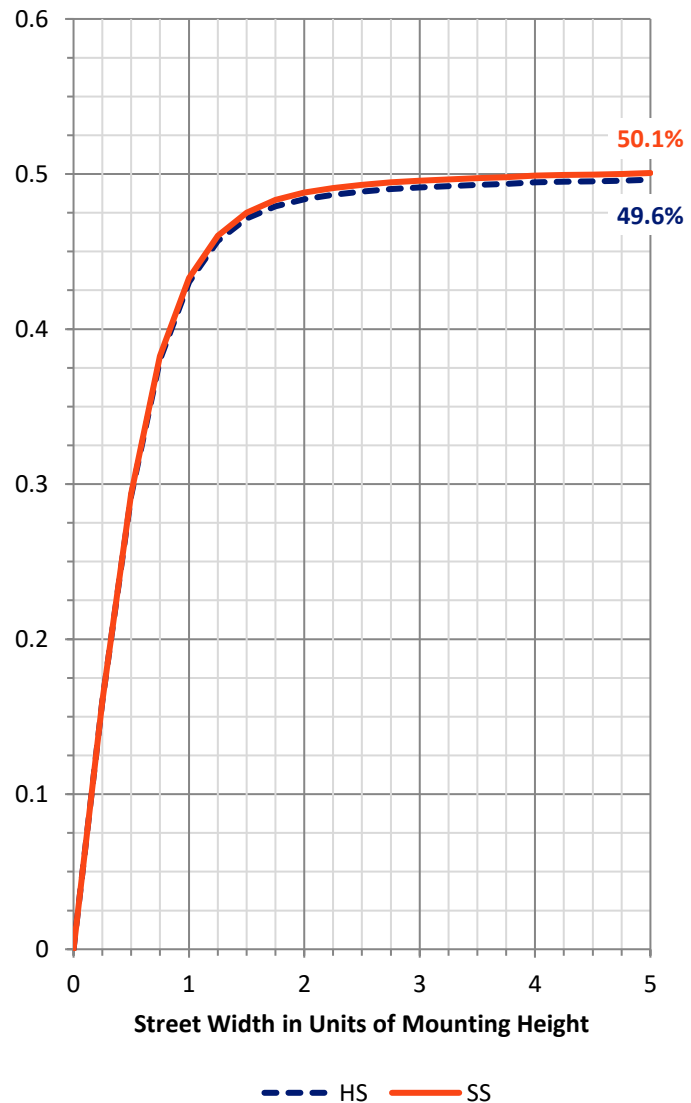
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3123.9 | 0.0 | 3123.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3123.9 | 0.0 | 3123.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6247.9 | 0.0 | 6247.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 114.8 | 1.8 |
| 10°-20° | 362.2 | 5.8 |
| 20°-30° | 586.9 | 9.4 |
| 30°-40° | 731.4 | 11.7 |
| 40°-50° | 914.0 | 14.6 |
| 50°-60° | 1128.5 | 18.1 |
| 60°-70° | 1402.3 | 22.4 |
| 70°-80° | 930.9 | 14.9 |
| 80°-90° | 76.9 | 1.2 |
| 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° | 6247.9 | 100.0 |
| 0°-180° | 6247.9 | 100.0 |



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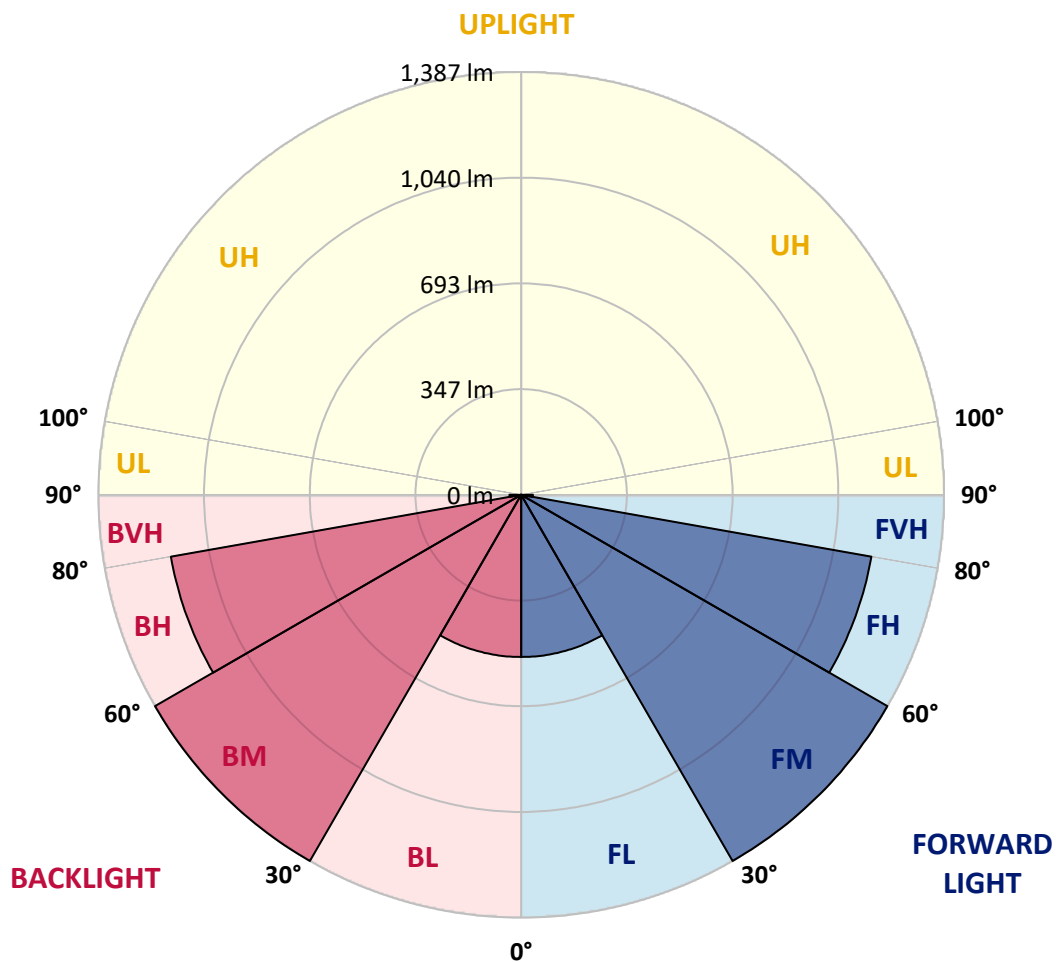
CATALOG NUMBER: TMU-E02-LED-E-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 532.0 | 8.5 | | | |
| FM | (30°-60°) | 1386.9 | 22.2 | | | |
| FH | (60°-80°) | 1166.6 | 18.7 | | | G1/1800 |
| FVH | (80°-90°) | 38.4 | 0.6 | | | G1/100 |
| BL | (0°-30°) | 532.0 | 8.5 | B2/1000 | | |
| BM | (30°-60°) | 1386.9 | 22.2 | B2/2500 | | |
| BH | (60°-80°) | 1166.6 | 18.7 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 38.4 | 0.6 | | | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1170.7 | 1170.7 | 1170.7 | 1170.7 | 1170.7 | 1170.7 | 1170.7 | 1170.7 | 1170.7 | 1170.7 | 1170.7 |
| 2.5° | 1176.0 | 1177.0 | 1176.3 | 1177.6 | 1177.4 | 1177.4 | 1176.7 | 1175.4 | 1175.2 | 1175.0 | 1174.8 |
| 5° | 1187.4 | 1186.0 | 1188.0 | 1190.0 | 1189.4 | 1189.7 | 1189.4 | 1189.4 | 1189.2 | 1189.1 | 1188.9 |
| 7.5° | 1199.3 | 1199.0 | 1200.4 | 1205.7 | 1206.4 | 1208.3 | 1210.6 | 1212.3 | 1212.4 | 1212.4 | 1212.5 |
| 10° | 1209.6 | 1210.0 | 1213.4 | 1221.0 | 1225.0 | 1231.4 | 1237.6 | 1242.6 | 1243.0 | 1243.4 | 1243.8 |
| 12.5° | 1218.0 | 1218.4 | 1223.3 | 1235.4 | 1245.0 | 1257.0 | 1270.7 | 1278.3 | 1279.0 | 1279.6 | 1280.3 |
| 15° | 1218.6 | 1219.6 | 1228.4 | 1248.0 | 1267.3 | 1287.0 | 1303.4 | 1313.6 | 1314.2 | 1314.7 | 1315.3 |
| 17.5° | 1210.0 | 1210.6 | 1225.4 | 1254.3 | 1286.6 | 1317.4 | 1334.3 | 1339.0 | 1339.2 | 1339.4 | 1339.6 |
| 20° | 1187.4 | 1189.0 | 1209.6 | 1252.6 | 1302.0 | 1342.0 | 1359.7 | 1353.3 | 1352.7 | 1352.0 | 1351.4 |
| 22.5° | 1150.7 | 1150.4 | 1177.4 | 1235.4 | 1305.0 | 1361.3 | 1377.0 | 1360.4 | 1358.4 | 1356.4 | 1354.4 |
| 25° | 1091.3 | 1095.4 | 1127.0 | 1196.4 | 1288.0 | 1365.6 | 1389.4 | 1364.0 | 1361.2 | 1358.3 | 1355.5 |
| 27.5° | 1027.0 | 1029.4 | 1063.0 | 1137.4 | 1248.4 | 1350.7 | 1395.4 | 1371.3 | 1368.1 | 1365.0 | 1361.8 |
| 30° | 952.0 | 955.0 | 991.0 | 1068.6 | 1184.6 | 1312.0 | 1393.6 | 1388.0 | 1384.3 | 1380.6 | 1376.9 |
| 32.5° | 878.6 | 882.0 | 914.3 | 999.3 | 1117.6 | 1259.0 | 1383.6 | 1411.6 | 1407.8 | 1404.1 | 1400.2 |
| 35° | 802.7 | 807.7 | 847.0 | 933.0 | 1053.0 | 1200.0 | 1368.3 | 1442.0 | 1439.9 | 1437.8 | 1435.7 |
| 37.5° | 739.7 | 740.7 | 778.7 | 869.0 | 993.0 | 1143.6 | 1348.0 | 1480.3 | 1481.8 | 1483.4 | 1484.9 |
| 40° | 669.4 | 675.7 | 713.7 | 809.0 | 938.6 | 1096.0 | 1328.6 | 1532.4 | 1540.3 | 1548.3 | 1556.2 |
| 42.5° | 606.3 | 607.0 | 645.6 | 744.0 | 879.6 | 1057.7 | 1318.0 | 1595.0 | 1612.0 | 1629.1 | 1646.1 |
| 45° | 540.0 | 542.6 | 577.6 | 672.7 | 811.7 | 1012.4 | 1317.7 | 1667.4 | 1694.6 | 1721.8 | 1749.0 |
| 47.5° | 477.4 | 478.4 | 515.4 | 603.6 | 733.6 | 949.0 | 1315.4 | 1745.0 | 1782.0 | 1819.1 | 1856.1 |
| 50° | 417.4 | 416.4 | 452.6 | 537.6 | 656.6 | 866.0 | 1295.0 | 1833.0 | 1879.8 | 1926.5 | 1973.3 |
| 52.5° | 348.7 | 353.4 | 391.0 | 472.4 | 586.6 | 781.6 | 1235.6 | 1929.3 | 1985.2 | 2041.2 | 2097.1 |
| 55° | 281.4 | 283.4 | 323.7 | 399.6 | 515.6 | 703.0 | 1132.3 | 2018.0 | 2083.9 | 2149.9 | 2215.8 |
| 57.5° | 207.3 | 213.3 | 248.6 | 323.6 | 443.6 | 636.6 | 1001.0 | 2064.0 | 2144.2 | 2224.5 | 2304.7 |
| 60° | 146.3 | 151.0 | 182.3 | 245.4 | 364.6 | 567.0 | 888.0 | 2038.4 | 2142.6 | 2246.9 | 2351.1 |
| 62.5° | 114.0 | 117.6 | 142.7 | 183.7 | 284.4 | 497.3 | 807.0 | 1955.3 | 2097.2 | 2239.0 | 2380.9 |
| 65° | 100.0 | 103.4 | 126.0 | 147.0 | 212.3 | 426.3 | 762.7 | 1867.7 | 2055.2 | 2242.8 | 2430.3 |
| 67.5° | 90.4 | 94.4 | 114.0 | 128.6 | 173.0 | 372.0 | 751.0 | 1812.4 | 2024.8 | 2237.1 | 2449.6 |
| 69° | 86.0 | 90.0 | 107.6 | 120.0 | 160.6 | 352.7 | 731.0 | 1725.4 | 1936.5 | 2147.7 | 2358.8 |
| 70° | 83.4 | 86.6 | 103.0 | 115.6 | 156.7 | 339.4 | 697.6 | 1616.6 | 1824.0 | 2031.4 | 2238.8 |
| 72.5° | 77.4 | 79.0 | 93.3 | 105.7 | 145.4 | 274.4 | 536.6 | 1200.7 | 1380.5 | 1560.2 | 1740.0 |
| 75° | 68.4 | 70.4 | 83.7 | 95.6 | 113.4 | 170.4 | 339.6 | 742.6 | 876.9 | 1011.1 | 1145.3 |
| 77.5° | 59.0 | 60.6 | 72.3 | 91.4 | 88.0 | 106.4 | 203.0 | 413.3 | 491.1 | 569.0 | 646.8 |
| 80° | 47.3 | 49.4 | 59.6 | 90.6 | 72.6 | 82.7 | 146.0 | 289.0 | 310.0 | 331.0 | 352.0 |
| 82.5° | 34.6 | 36.3 | 46.6 | 73.4 | 55.7 | 62.4 | 111.4 | 245.0 | 252.3 | 259.6 | 266.9 |
| 85° | 17.7 | 18.0 | 29.6 | 44.7 | 35.3 | 32.4 | 62.6 | 167.7 | 172.4 | 177.0 | 181.7 |
| 87.5° | 3.0 | 3.0 | 6.7 | 7.7 | 8.6 | 5.3 | 8.0 | 28.7 | 29.6 | 30.5 | 31.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: TMU-E02-LED-E-U-RW

CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1170.7 | 1170.7 | 1170.7 | 1170.7 | 1170.7 | 1170.7 | 1170.7 | 1170.7 | 1170.7 | 1170.7 | 1170.7 |
| 2.5° | 1174.7 | 1174.5 | 1174.0 | 1174.1 | 1174.5 | 1174.2 | 1174.7 | 1174.8 | 1175.1 | 1173.9 | 1173.6 |
| 5° | 1188.8 | 1188.7 | 1188.6 | 1188.6 | 1188.8 | 1188.7 | 1189.0 | 1189.6 | 1189.4 | 1188.6 | 1188.4 |
| 7.5° | 1212.6 | 1212.7 | 1213.0 | 1212.6 | 1213.3 | 1213.0 | 1212.4 | 1213.4 | 1214.2 | 1214.2 | 1215.0 |
| 10° | 1244.1 | 1244.5 | 1245.6 | 1245.5 | 1246.6 | 1246.5 | 1246.6 | 1247.8 | 1248.6 | 1248.7 | 1249.5 |
| 12.5° | 1281.0 | 1281.6 | 1282.2 | 1282.8 | 1284.1 | 1283.4 | 1285.0 | 1285.7 | 1286.6 | 1288.7 | 1287.7 |
| 15° | 1315.8 | 1316.4 | 1318.2 | 1318.2 | 1319.4 | 1319.8 | 1321.4 | 1322.0 | 1322.2 | 1323.8 | 1324.0 |
| 17.5° | 1339.8 | 1340.0 | 1340.7 | 1340.3 | 1341.4 | 1341.0 | 1342.0 | 1342.6 | 1343.4 | 1344.3 | 1345.8 |
| 20° | 1350.8 | 1350.2 | 1349.8 | 1349.4 | 1348.7 | 1347.7 | 1348.0 | 1348.4 | 1348.6 | 1349.4 | 1350.6 |
| 22.5° | 1352.5 | 1350.5 | 1348.5 | 1347.1 | 1345.1 | 1343.4 | 1341.7 | 1341.8 | 1342.0 | 1341.7 | 1342.5 |
| 25° | 1352.7 | 1349.8 | 1346.7 | 1342.8 | 1340.0 | 1336.2 | 1333.0 | 1332.7 | 1331.8 | 1331.8 | 1332.3 |
| 27.5° | 1358.7 | 1355.5 | 1351.0 | 1346.6 | 1340.5 | 1335.4 | 1330.3 | 1328.5 | 1326.7 | 1325.6 | 1325.1 |
| 30° | 1373.2 | 1369.5 | 1364.2 | 1358.6 | 1351.9 | 1344.0 | 1336.6 | 1334.4 | 1331.8 | 1329.6 | 1327.6 |
| 32.5° | 1396.4 | 1392.6 | 1386.8 | 1380.9 | 1372.0 | 1364.2 | 1357.0 | 1353.3 | 1349.6 | 1345.7 | 1342.0 |
| 35° | 1433.6 | 1431.5 | 1426.3 | 1421.2 | 1414.7 | 1408.5 | 1402.0 | 1397.9 | 1391.7 | 1388.6 | 1384.1 |
| 37.5° | 1486.5 | 1488.0 | 1488.0 | 1488.7 | 1486.7 | 1483.7 | 1479.0 | 1474.7 | 1472.7 | 1464.3 | 1459.0 |
| 40° | 1564.2 | 1572.2 | 1579.4 | 1585.1 | 1590.1 | 1595.0 | 1599.3 | 1596.8 | 1597.6 | 1595.4 | 1592.2 |
| 42.5° | 1663.1 | 1680.2 | 1695.7 | 1711.3 | 1722.5 | 1740.1 | 1752.3 | 1756.2 | 1766.0 | 1769.9 | 1777.1 |
| 45° | 1776.2 | 1803.4 | 1829.4 | 1853.6 | 1876.0 | 1901.2 | 1925.6 | 1943.8 | 1963.8 | 1986.2 | 2008.8 |
| 47.5° | 1893.1 | 1930.2 | 1968.7 | 2000.2 | 2032.6 | 2069.8 | 2102.3 | 2129.7 | 2165.5 | 2198.5 | 2235.0 |
| 50° | 2020.1 | 2066.8 | 2110.6 | 2149.5 | 2191.3 | 2234.1 | 2278.6 | 2318.9 | 2367.2 | 2420.1 | 2477.4 |
| 52.5° | 2153.1 | 2209.0 | 2259.7 | 2308.4 | 2357.5 | 2406.6 | 2454.0 | 2510.8 | 2570.4 | 2640.3 | 2711.8 |
| 55° | 2281.7 | 2347.7 | 2405.2 | 2459.4 | 2515.6 | 2570.5 | 2619.4 | 2695.4 | 2768.5 | 2851.9 | 2945.2 |
| 57.5° | 2384.9 | 2465.2 | 2531.5 | 2595.9 | 2659.3 | 2717.6 | 2777.7 | 2863.5 | 2956.6 | 3054.1 | 3172.5 |
| 60° | 2455.4 | 2559.7 | 2644.4 | 2721.8 | 2799.5 | 2872.9 | 2942.0 | 3054.1 | 3164.9 | 3286.0 | 3433.5 |
| 62.5° | 2522.8 | 2664.6 | 2775.2 | 2880.7 | 2985.6 | 3079.8 | 3165.7 | 3306.8 | 3451.5 | 3601.2 | 3776.6 |
| 65° | 2617.8 | 2805.4 | 2968.1 | 3115.3 | 3260.4 | 3398.9 | 3527.3 | 3706.1 | 3888.8 | 4085.9 | 4295.3 |
| 67.5° | 2662.0 | 2874.4 | 3086.4 | 3284.7 | 3469.0 | 3644.4 | 3809.4 | 4025.4 | 4240.5 | 4468.9 | 4721.9 |
| 69° | 2570.0 | 2781.2 | 3007.8 | 3224.4 | 3428.1 | 3614.0 | 3792.6 | 4013.2 | 4236.8 | 4470.1 | 4725.4 |
| 70° | 2446.1 | 2653.5 | 2882.2 | 3108.7 | 3303.4 | 3497.2 | 3682.3 | 3901.2 | 4127.7 | 4361.6 | 4628.8 |
| 72.5° | 1919.8 | 2099.5 | 2322.6 | 2542.4 | 2737.8 | 2932.2 | 3112.0 | 3336.0 | 3564.0 | 3809.6 | 4062.6 |
| 75° | 1279.5 | 1413.7 | 1579.9 | 1783.7 | 1962.9 | 2134.8 | 2309.0 | 2498.5 | 2720.9 | 2923.4 | 3154.9 |
| 77.5° | 724.7 | 802.5 | 899.0 | 1031.6 | 1160.2 | 1263.1 | 1387.3 | 1476.5 | 1605.6 | 1717.1 | 1834.9 |
| 80° | 373.0 | 394.0 | 422.8 | 454.6 | 472.7 | 469.9 | 488.4 | 470.0 | 474.2 | 459.2 | 443.2 |
| 82.5° | 274.2 | 281.5 | 294.5 | 300.9 | 300.3 | 279.3 | 257.0 | 226.0 | 198.8 | 170.2 | 144.0 |
| 85° | 186.3 | 191.0 | 194.3 | 199.2 | 197.8 | 188.8 | 168.7 | 141.8 | 115.6 | 92.7 | 74.2 |
| 87.5° | 32.3 | 33.2 | 32.9 | 35.7 | 35.8 | 33.2 | 27.4 | 23.3 | 19.7 | 14.6 | 10.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: TMU-E02-LED-E-U-RW

CANDELA DISTRIBUTION (continued):

| | 80° | 81° | 82° | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1170.7 | 1170.7 | 1170.7 | 1170.7 | 1170.7 | 1170.7 | 1170.7 | 1170.7 | 1170.7 | 1170.7 | 1170.7 |
| 2.5° | 1173.3 | 1173.4 | 1174.0 | 1173.4 | 1173.4 | 1173.3 | 1173.0 | 1173.6 | 1173.3 | 1172.4 | 1171.3 |
| 5° | 1188.6 | 1187.6 | 1187.4 | 1188.0 | 1188.7 | 1187.4 | 1188.4 | 1189.4 | 1187.6 | 1188.0 | 1187.3 |
| 7.5° | 1214.4 | 1214.0 | 1213.7 | 1214.3 | 1214.3 | 1214.0 | 1214.4 | 1213.3 | 1212.6 | 1213.7 | 1214.7 |
| 10° | 1248.6 | 1248.4 | 1249.0 | 1249.0 | 1250.4 | 1249.6 | 1249.4 | 1250.4 | 1249.7 | 1249.0 | 1249.3 |
| 12.5° | 1289.0 | 1288.0 | 1289.6 | 1289.7 | 1290.6 | 1290.6 | 1290.4 | 1290.7 | 1290.4 | 1289.3 | 1288.7 |
| 15° | 1325.0 | 1323.7 | 1324.0 | 1326.7 | 1326.3 | 1327.0 | 1327.0 | 1326.4 | 1326.0 | 1325.6 | 1326.0 |
| 17.5° | 1346.6 | 1346.0 | 1346.0 | 1347.4 | 1348.4 | 1348.0 | 1348.0 | 1348.0 | 1347.7 | 1348.0 | 1348.7 |
| 20° | 1350.6 | 1350.6 | 1351.0 | 1352.4 | 1354.0 | 1353.0 | 1353.0 | 1353.6 | 1353.0 | 1353.7 | 1354.0 |
| 22.5° | 1343.0 | 1343.6 | 1344.4 | 1346.0 | 1346.4 | 1346.4 | 1346.4 | 1346.7 | 1347.4 | 1347.3 | 1348.0 |
| 25° | 1332.3 | 1333.0 | 1334.0 | 1335.4 | 1336.6 | 1336.7 | 1336.7 | 1337.4 | 1337.3 | 1337.7 | 1338.0 |
| 27.5° | 1324.3 | 1325.0 | 1326.0 | 1327.4 | 1329.0 | 1329.0 | 1329.0 | 1329.6 | 1329.6 | 1330.0 | 1330.7 |
| 30° | 1325.4 | 1324.0 | 1325.0 | 1325.6 | 1326.7 | 1326.6 | 1326.3 | 1326.6 | 1327.0 | 1327.0 | 1327.3 |
| 32.5° | 1339.6 | 1336.7 | 1335.6 | 1335.4 | 1335.6 | 1334.6 | 1334.4 | 1333.6 | 1333.0 | 1333.0 | 1332.7 |
| 35° | 1377.6 | 1373.0 | 1372.6 | 1370.0 | 1367.4 | 1364.6 | 1365.0 | 1363.0 | 1363.6 | 1362.0 | 1360.7 |
| 37.5° | 1455.6 | 1450.4 | 1453.6 | 1448.0 | 1444.3 | 1441.6 | 1438.7 | 1434.6 | 1432.3 | 1435.4 | 1435.3 |
| 40° | 1595.4 | 1591.6 | 1590.7 | 1591.7 | 1588.3 | 1590.0 | 1582.6 | 1580.6 | 1576.4 | 1579.4 | 1583.3 |
| 42.5° | 1788.4 | 1786.0 | 1798.7 | 1801.0 | 1802.4 | 1804.4 | 1805.7 | 1794.6 | 1794.4 | 1792.0 | 1785.3 |
| 45° | 2026.6 | 2040.6 | 2040.0 | 2055.4 | 2056.0 | 2051.4 | 2053.4 | 2048.3 | 2046.4 | 2039.0 | 2048.0 |
| 47.5° | 2271.7 | 2298.4 | 2308.3 | 2311.6 | 2324.4 | 2327.4 | 2315.4 | 2311.4 | 2318.4 | 2306.4 | 2308.0 |
| 50° | 2534.6 | 2563.3 | 2586.6 | 2602.4 | 2611.4 | 2612.0 | 2603.0 | 2601.0 | 2607.4 | 2584.6 | 2595.3 |
| 52.5° | 2793.4 | 2836.6 | 2880.7 | 2904.0 | 2920.7 | 2922.0 | 2929.0 | 2920.7 | 2924.0 | 2918.6 | 2929.3 |
| 55° | 3048.3 | 3123.3 | 3175.0 | 3220.6 | 3249.6 | 3274.6 | 3277.0 | 3286.0 | 3286.6 | 3297.6 | 3286.7 |
| 57.5° | 3297.6 | 3379.4 | 3469.4 | 3550.4 | 3595.4 | 3623.6 | 3650.4 | 3686.6 | 3694.6 | 3690.4 | 3697.3 |
| 60° | 3592.0 | 3718.4 | 3840.7 | 3934.0 | 4011.7 | 4086.0 | 4126.0 | 4183.0 | 4192.0 | 4216.7 | 4195.3 |
| 62.5° | 3964.0 | 4147.4 | 4313.4 | 4439.0 | 4557.0 | 4672.6 | 4760.0 | 4804.0 | 4830.6 | 4882.4 | 4865.3 |
| 65° | 4534.6 | 4754.6 | 4974.4 | 5154.3 | 5319.6 | 5457.4 | 5590.0 | 5653.4 | 5723.4 | 5796.7 | 5810.0 |
| 67.5° | 5004.6 | 5277.0 | 5524.7 | 5744.0 | 5944.4 | 6097.3 | 6235.3 | 6345.0 | 6430.4 | 6484.4 | 6488.7 |
| 69° | 5026.0 | 5309.0 | 5578.0 | 5813.3 | 6022.4 | 6185.0 | 6330.3 | 6452.4 | 6535.4 | 6590.6 | 6605.3 |
| 70° | 4924.0 | 5213.6 | 5500.3 | 5738.0 | 5952.0 | 6118.3 | 6272.3 | 6388.6 | 6481.4 | 6537.7 | 6557.3 |
| 72.5° | 4350.4 | 4659.7 | 4966.0 | 5174.4 | 5393.0 | 5591.0 | 5714.3 | 5833.0 | 5963.6 | 5980.6 | 6034.7 |
| 75° | 3429.4 | 3689.3 | 3927.0 | 4086.3 | 4269.0 | 4446.6 | 4567.6 | 4599.0 | 4667.4 | 4753.4 | 4722.7 |
| 77.5° | 1987.4 | 2067.4 | 2220.6 | 2260.0 | 2226.6 | 2304.0 | 2329.7 | 2275.0 | 2272.4 | 2322.7 | 2222.7 |
| 80° | 440.4 | 415.4 | 446.7 | 423.4 | 424.0 | 424.6 | 417.7 | 415.0 | 420.0 | 415.0 | 408.0 |
| 82.5° | 122.0 | 118.0 | 118.6 | 117.4 | 119.6 | 118.0 | 117.0 | 119.6 | 119.4 | 119.0 | 121.3 |
| 85° | 58.6 | 58.0 | 57.0 | 56.6 | 55.4 | 53.6 | 51.0 | 51.0 | 52.3 | 50.3 | 51.3 |
| 87.5° | 7.6 | 7.3 | 7.4 | 8.7 | 7.7 | 6.4 | 6.4 | 6.4 | 6.0 | 6.0 | 6.0 |
| 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)