

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: P149065

Luminaire Tested: **TMU-F02-LED-E-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P149065
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-F02-LED-E-U-RW
Description: TALON MEDIUM LED AREA LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5157.8 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 55
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: 28.75 FT

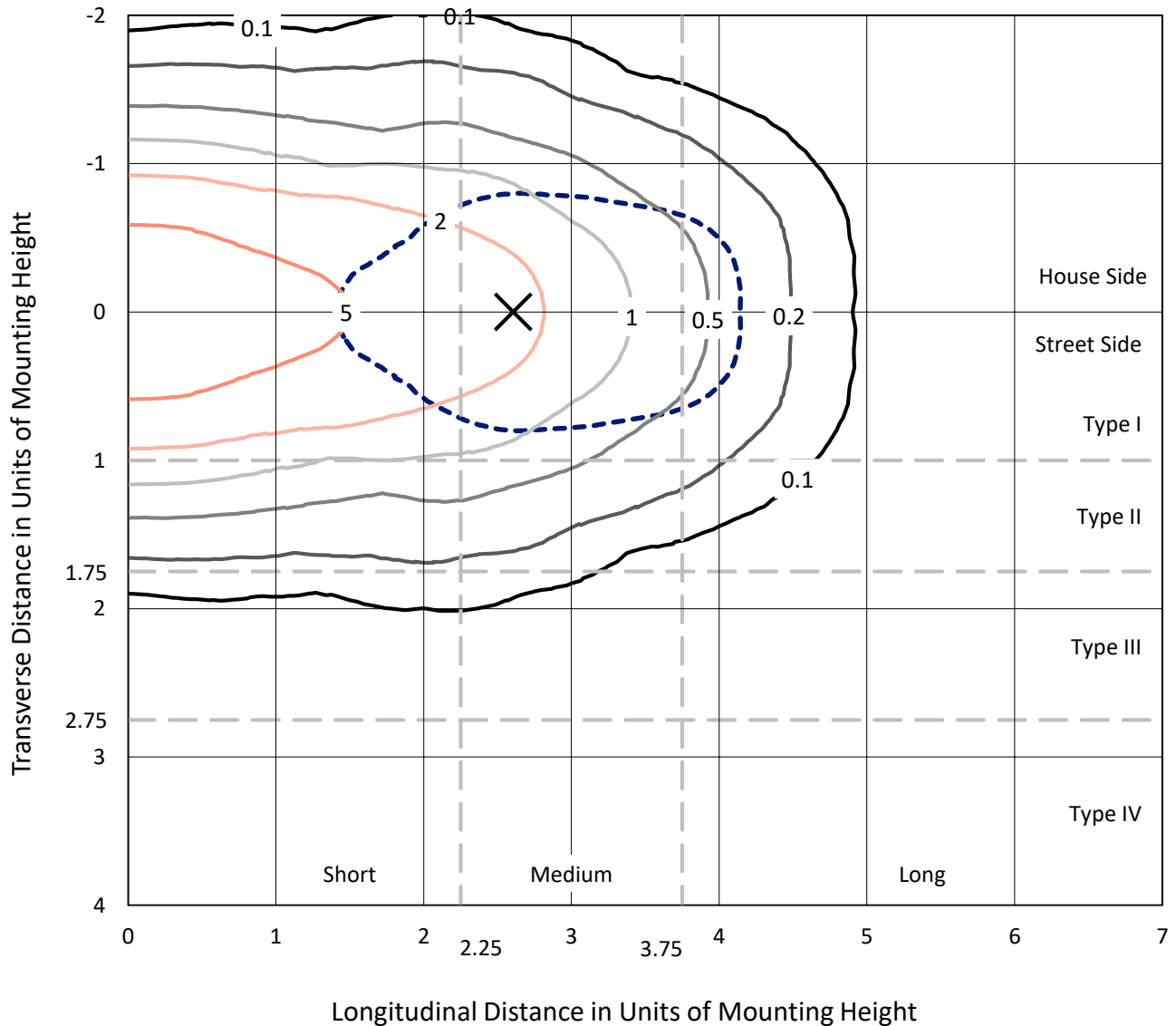


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

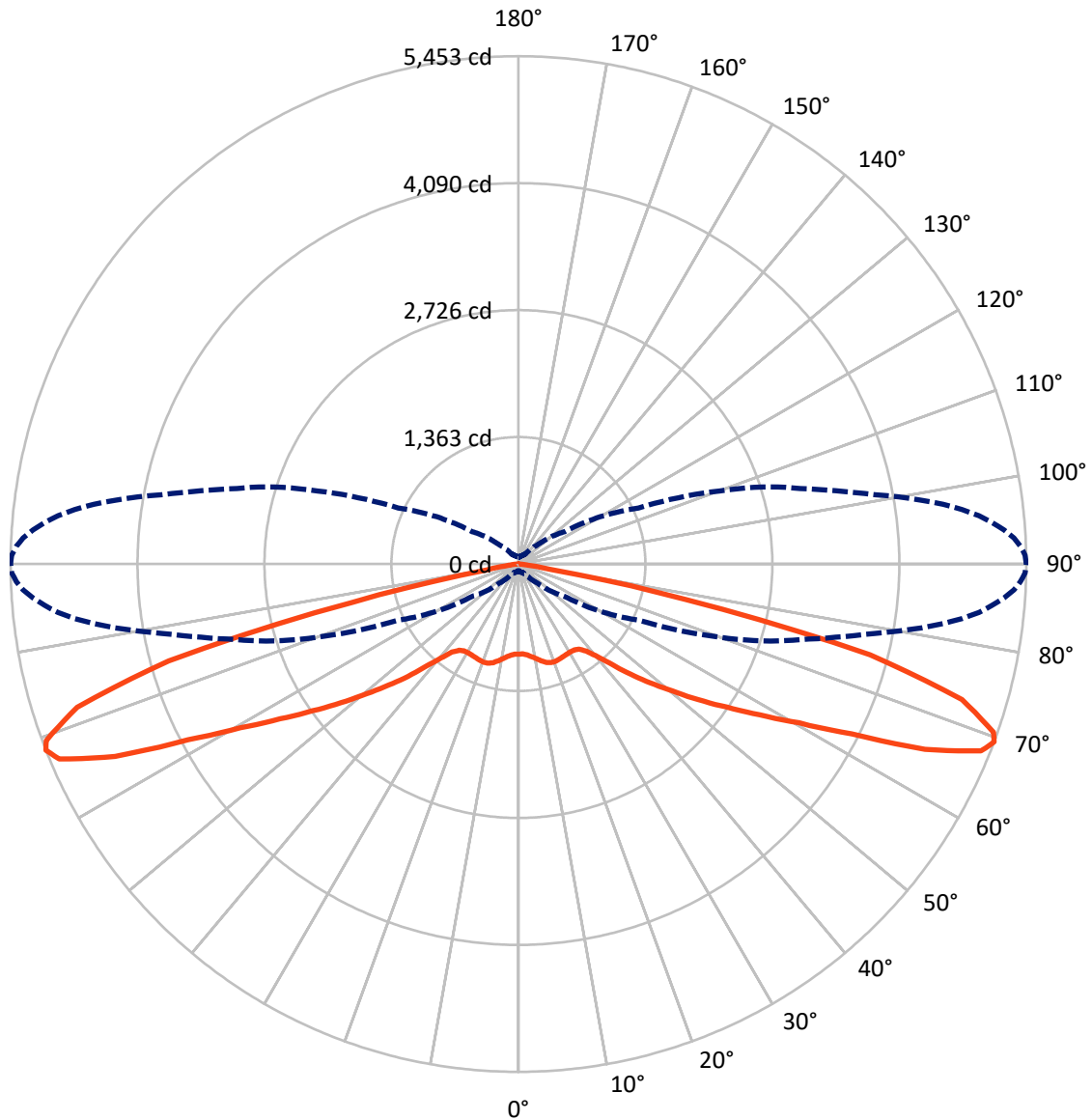


Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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

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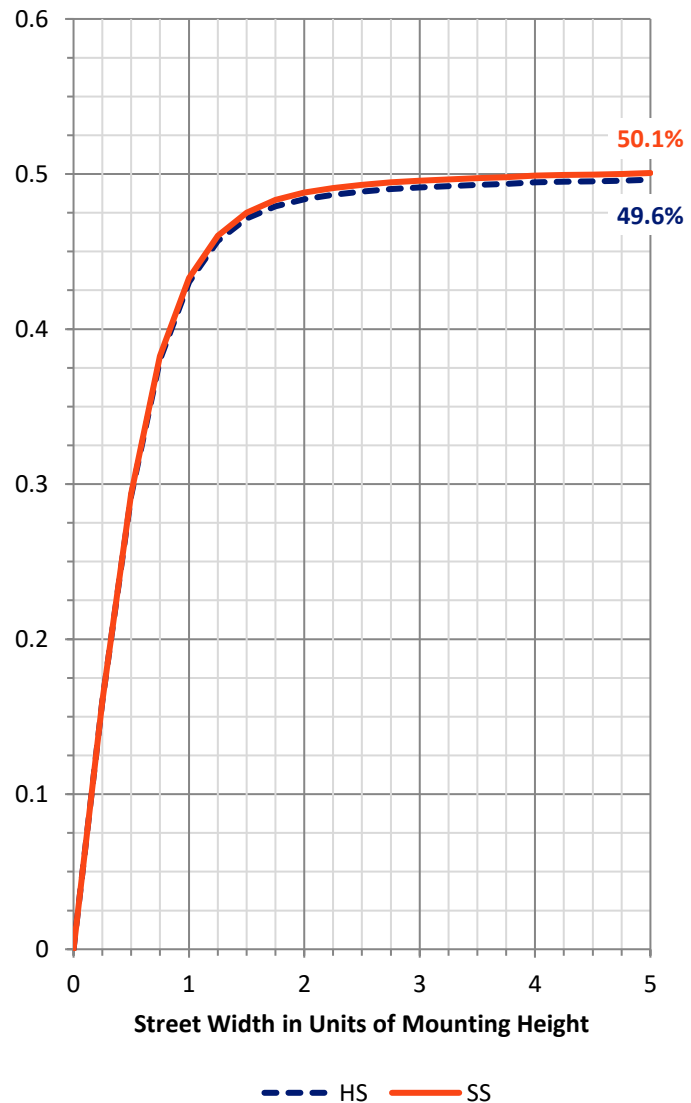
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2578.9 | 0.0 | 2578.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2578.9 | 0.0 | 2578.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5157.8 | 0.0 | 5157.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.8 | 1.8 |
| 10°-20° | 299.0 | 5.8 |
| 20°-30° | 484.5 | 9.4 |
| 30°-40° | 603.8 | 11.7 |
| 40°-50° | 754.5 | 14.6 |
| 50°-60° | 931.6 | 18.1 |
| 60°-70° | 1157.6 | 22.4 |
| 70°-80° | 768.5 | 14.9 |
| 80°-90° | 63.5 | 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° | 5157.8 | 100.0 |
| 0°-180° | 5157.8 | 100.0 |



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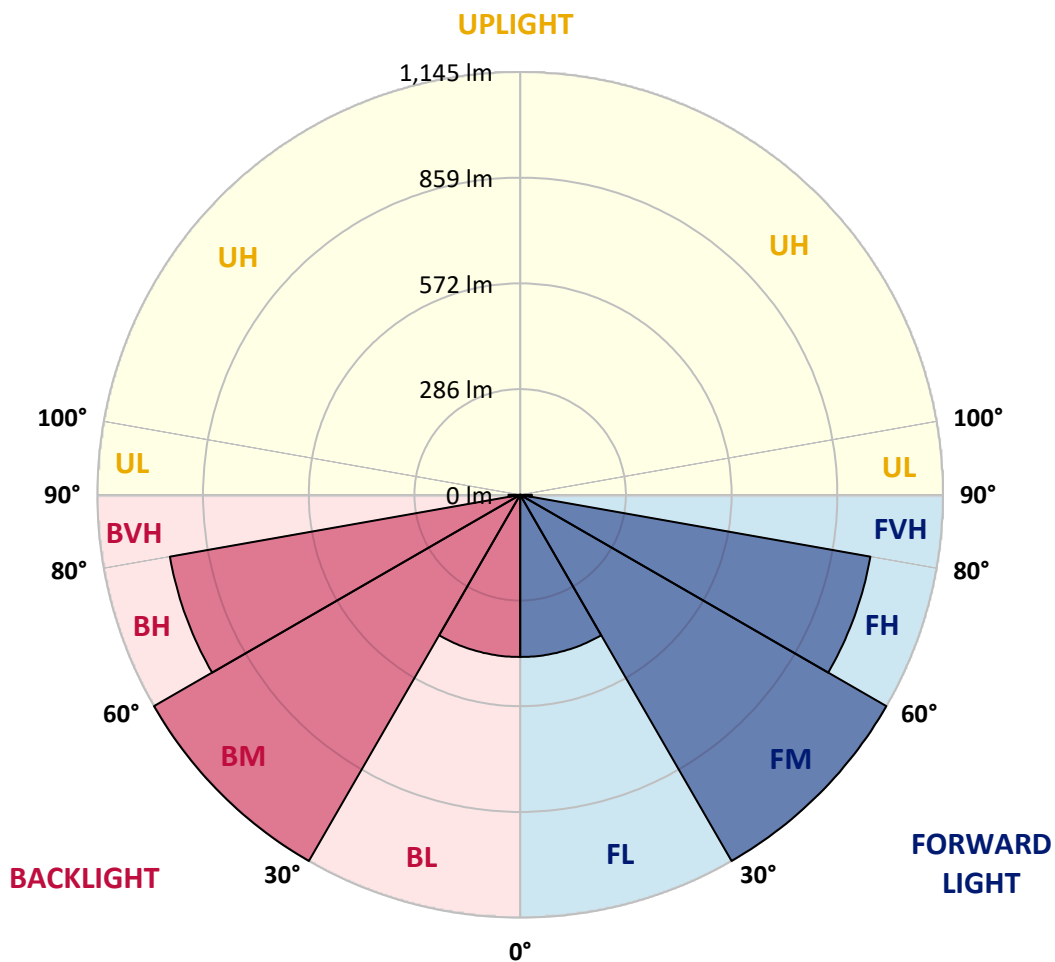
CATALOG NUMBER: TMU-F02-LED-E-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 439.2 | 8.5 | | | |
| FM | (30°-60°) | 1145.0 | 22.2 | | | |
| FH | (60°-80°) | 963.1 | 18.7 | | | G1/1800 |
| FVH | (80°-90°) | 31.7 | 0.6 | | | G1/100 |
| BL | (0°-30°) | 439.2 | 8.5 | B1/500 | | |
| BM | (30°-60°) | 1145.0 | 22.2 | B2/2500 | | |
| BH | (60°-80°) | 963.1 | 18.7 | B2/1000 | | G1/1800 |
| BVH | (80°-90°) | 31.7 | 0.6 | | | 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 966.4 | 966.4 | 966.4 | 966.4 | 966.4 | 966.4 | 966.4 | 966.4 | 966.4 | 966.4 | 966.4 |
| 2.5° | 970.8 | 971.6 | 971.1 | 972.2 | 972.0 | 971.9 | 971.4 | 970.2 | 970.1 | 970.0 | 969.8 |
| 5° | 980.2 | 979.0 | 980.8 | 982.4 | 981.8 | 982.1 | 981.8 | 981.8 | 981.7 | 981.6 | 981.5 |
| 7.5° | 990.0 | 989.8 | 990.9 | 995.4 | 995.8 | 997.5 | 999.4 | 1000.8 | 1000.9 | 1000.9 | 1001.0 |
| 10° | 998.6 | 998.9 | 1001.6 | 1008.0 | 1011.3 | 1016.5 | 1021.8 | 1025.8 | 1026.2 | 1026.5 | 1026.8 |
| 12.5° | 1005.5 | 1005.8 | 1009.9 | 1019.8 | 1027.8 | 1037.7 | 1049.0 | 1055.3 | 1055.9 | 1056.4 | 1057.0 |
| 15° | 1006.0 | 1006.9 | 1014.0 | 1030.2 | 1046.2 | 1062.4 | 1075.9 | 1084.4 | 1084.9 | 1085.3 | 1085.8 |
| 17.5° | 998.9 | 999.4 | 1011.6 | 1035.5 | 1062.2 | 1087.5 | 1101.5 | 1105.4 | 1105.6 | 1105.7 | 1105.9 |
| 20° | 980.2 | 981.6 | 998.6 | 1034.1 | 1074.8 | 1107.8 | 1122.4 | 1117.2 | 1116.7 | 1116.2 | 1115.6 |
| 22.5° | 949.9 | 949.6 | 971.9 | 1019.8 | 1077.3 | 1123.8 | 1136.8 | 1123.0 | 1121.4 | 1119.8 | 1118.1 |
| 25° | 900.9 | 904.2 | 930.4 | 987.6 | 1063.2 | 1127.4 | 1146.9 | 1126.0 | 1123.7 | 1121.3 | 1119.0 |
| 27.5° | 847.8 | 849.8 | 877.6 | 938.9 | 1030.6 | 1115.0 | 1151.8 | 1132.1 | 1129.4 | 1126.8 | 1124.2 |
| 30° | 785.9 | 788.4 | 818.1 | 882.2 | 978.0 | 1083.1 | 1150.5 | 1145.8 | 1142.8 | 1139.7 | 1136.7 |
| 32.5° | 725.4 | 728.1 | 754.8 | 825.0 | 922.7 | 1039.3 | 1142.2 | 1165.4 | 1162.3 | 1159.1 | 1156.0 |
| 35° | 662.6 | 666.8 | 699.2 | 770.2 | 869.3 | 990.6 | 1129.6 | 1190.4 | 1188.7 | 1186.9 | 1185.2 |
| 37.5° | 610.7 | 611.4 | 642.8 | 717.4 | 819.8 | 944.1 | 1112.8 | 1222.1 | 1223.3 | 1224.6 | 1225.8 |
| 40° | 552.6 | 557.8 | 589.2 | 667.8 | 774.9 | 904.8 | 1096.8 | 1265.0 | 1271.6 | 1278.1 | 1284.7 |
| 42.5° | 500.6 | 501.1 | 533.0 | 614.2 | 726.2 | 873.2 | 1088.1 | 1316.7 | 1330.8 | 1344.8 | 1358.9 |
| 45° | 445.8 | 448.0 | 476.9 | 555.3 | 670.0 | 835.8 | 1087.8 | 1376.4 | 1398.9 | 1421.4 | 1443.8 |
| 47.5° | 394.0 | 394.9 | 425.4 | 498.4 | 605.7 | 783.4 | 1085.8 | 1440.5 | 1471.1 | 1501.6 | 1532.2 |
| 50° | 344.6 | 343.7 | 373.7 | 443.8 | 542.1 | 714.9 | 1069.0 | 1513.2 | 1551.8 | 1590.4 | 1629.0 |
| 52.5° | 287.8 | 291.7 | 322.8 | 390.0 | 484.3 | 645.3 | 1020.0 | 1592.7 | 1638.9 | 1685.1 | 1731.2 |
| 55° | 232.2 | 233.9 | 267.2 | 329.9 | 425.7 | 580.3 | 934.8 | 1666.0 | 1720.4 | 1774.8 | 1829.2 |
| 57.5° | 171.1 | 176.1 | 205.3 | 267.2 | 366.2 | 525.6 | 826.4 | 1703.8 | 1770.1 | 1836.3 | 1902.6 |
| 60° | 120.8 | 124.6 | 150.6 | 202.6 | 301.0 | 468.0 | 733.0 | 1682.7 | 1768.8 | 1854.8 | 1940.9 |
| 62.5° | 94.2 | 97.2 | 117.8 | 151.6 | 234.7 | 410.6 | 666.2 | 1614.2 | 1731.3 | 1848.4 | 1965.5 |
| 65° | 82.6 | 85.4 | 104.0 | 121.4 | 175.3 | 352.0 | 629.6 | 1541.8 | 1696.6 | 1851.4 | 2006.2 |
| 67.5° | 74.6 | 77.8 | 94.1 | 106.2 | 142.8 | 307.1 | 620.0 | 1496.1 | 1671.4 | 1846.8 | 2022.1 |
| 69° | 71.0 | 74.2 | 88.9 | 99.1 | 132.6 | 291.2 | 603.4 | 1424.3 | 1598.6 | 1773.0 | 1947.3 |
| 70° | 68.8 | 71.6 | 85.0 | 95.5 | 129.3 | 280.2 | 576.0 | 1334.6 | 1505.8 | 1677.0 | 1848.1 |
| 72.5° | 63.8 | 65.2 | 77.1 | 87.2 | 120.0 | 226.4 | 443.0 | 991.2 | 1139.6 | 1288.0 | 1436.4 |
| 75° | 56.4 | 58.0 | 69.0 | 79.0 | 93.6 | 140.6 | 280.4 | 613.1 | 723.9 | 834.7 | 945.5 |
| 77.5° | 48.7 | 50.1 | 59.7 | 75.4 | 72.6 | 87.8 | 167.6 | 341.2 | 405.5 | 469.8 | 534.0 |
| 80° | 39.0 | 40.7 | 49.2 | 74.8 | 60.0 | 68.2 | 120.6 | 238.6 | 255.9 | 273.2 | 290.6 |
| 82.5° | 28.6 | 30.0 | 38.5 | 60.5 | 46.0 | 51.4 | 92.0 | 202.2 | 208.3 | 214.3 | 220.3 |
| 85° | 14.6 | 14.9 | 24.5 | 36.9 | 29.2 | 26.7 | 51.8 | 138.4 | 142.2 | 146.1 | 150.0 |
| 87.5° | 2.5 | 2.5 | 5.5 | 6.4 | 7.2 | 4.4 | 6.6 | 23.7 | 24.4 | 25.2 | 25.9 |
| 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-F02-LED-E-U-RW

CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 966.4 | 966.4 | 966.4 | 966.4 | 966.4 | 966.4 | 966.4 | 966.4 | 966.4 | 966.4 | 966.4 |
| 2.5° | 969.7 | 969.6 | 969.1 | 969.2 | 969.6 | 969.4 | 969.8 | 969.8 | 970.1 | 969.0 | 968.8 |
| 5° | 981.4 | 981.2 | 981.2 | 981.1 | 981.4 | 981.3 | 981.6 | 982.0 | 981.9 | 981.2 | 981.1 |
| 7.5° | 1001.0 | 1001.1 | 1001.4 | 1001.1 | 1001.6 | 1001.4 | 1000.8 | 1001.7 | 1002.3 | 1002.3 | 1003.0 |
| 10° | 1027.1 | 1027.4 | 1028.3 | 1028.2 | 1029.2 | 1029.0 | 1029.2 | 1030.1 | 1030.8 | 1030.9 | 1031.6 |
| 12.5° | 1057.5 | 1058.1 | 1058.6 | 1059.1 | 1060.1 | 1059.5 | 1060.8 | 1061.4 | 1062.2 | 1063.8 | 1063.0 |
| 15° | 1086.2 | 1086.6 | 1088.2 | 1088.3 | 1089.2 | 1089.6 | 1090.8 | 1091.3 | 1091.5 | 1092.8 | 1093.0 |
| 17.5° | 1106.0 | 1106.2 | 1106.8 | 1106.5 | 1107.3 | 1107.1 | 1107.8 | 1108.3 | 1109.0 | 1109.8 | 1111.0 |
| 20° | 1115.1 | 1114.6 | 1114.3 | 1114.0 | 1113.4 | 1112.6 | 1112.8 | 1113.2 | 1113.3 | 1114.0 | 1114.9 |
| 22.5° | 1116.5 | 1114.9 | 1113.2 | 1112.1 | 1110.4 | 1109.0 | 1107.6 | 1107.7 | 1107.8 | 1107.6 | 1108.3 |
| 25° | 1116.7 | 1114.3 | 1111.7 | 1108.6 | 1106.2 | 1103.0 | 1100.4 | 1100.2 | 1099.5 | 1099.5 | 1099.8 |
| 27.5° | 1121.6 | 1119.0 | 1115.3 | 1111.7 | 1106.7 | 1102.5 | 1098.2 | 1096.8 | 1095.3 | 1094.3 | 1093.9 |
| 30° | 1133.6 | 1130.6 | 1126.2 | 1121.5 | 1116.0 | 1109.5 | 1103.4 | 1101.6 | 1099.5 | 1097.6 | 1096.0 |
| 32.5° | 1152.8 | 1149.7 | 1144.8 | 1140.0 | 1132.7 | 1126.2 | 1120.2 | 1117.2 | 1114.2 | 1110.9 | 1107.9 |
| 35° | 1183.5 | 1181.8 | 1177.5 | 1173.2 | 1167.8 | 1162.7 | 1157.4 | 1154.0 | 1148.9 | 1146.3 | 1142.7 |
| 37.5° | 1227.1 | 1228.4 | 1228.4 | 1228.9 | 1227.3 | 1224.8 | 1220.9 | 1217.4 | 1215.7 | 1208.8 | 1204.4 |
| 40° | 1291.3 | 1297.8 | 1303.9 | 1308.5 | 1312.7 | 1316.7 | 1320.3 | 1318.2 | 1318.9 | 1317.0 | 1314.4 |
| 42.5° | 1373.0 | 1387.0 | 1399.9 | 1412.7 | 1422.0 | 1436.5 | 1446.6 | 1449.8 | 1457.9 | 1461.1 | 1467.0 |
| 45° | 1466.2 | 1488.7 | 1510.3 | 1530.2 | 1548.7 | 1569.5 | 1589.7 | 1604.7 | 1621.1 | 1639.7 | 1658.3 |
| 47.5° | 1562.8 | 1593.4 | 1625.2 | 1651.2 | 1678.0 | 1708.7 | 1735.6 | 1758.2 | 1787.7 | 1814.9 | 1845.0 |
| 50° | 1667.6 | 1706.2 | 1742.4 | 1774.5 | 1809.0 | 1844.4 | 1881.1 | 1914.3 | 1954.2 | 1997.9 | 2045.2 |
| 52.5° | 1777.4 | 1823.6 | 1865.5 | 1905.7 | 1946.2 | 1986.7 | 2025.8 | 2072.8 | 2121.9 | 2179.6 | 2238.7 |
| 55° | 1883.6 | 1938.1 | 1985.6 | 2030.3 | 2076.7 | 2122.0 | 2162.4 | 2225.1 | 2285.4 | 2354.3 | 2431.4 |
| 57.5° | 1968.8 | 2035.0 | 2089.8 | 2143.0 | 2195.3 | 2243.5 | 2293.0 | 2363.9 | 2440.7 | 2521.2 | 2619.0 |
| 60° | 2027.0 | 2113.0 | 2183.0 | 2246.9 | 2311.0 | 2371.6 | 2428.7 | 2521.2 | 2612.7 | 2712.7 | 2834.4 |
| 62.5° | 2082.6 | 2199.8 | 2291.0 | 2378.1 | 2464.7 | 2542.5 | 2613.4 | 2729.8 | 2849.3 | 2972.9 | 3117.7 |
| 65° | 2161.1 | 2315.9 | 2450.3 | 2571.7 | 2691.6 | 2805.9 | 2911.9 | 3059.4 | 3210.3 | 3373.0 | 3545.9 |
| 67.5° | 2197.5 | 2372.8 | 2547.9 | 2711.6 | 2863.8 | 3008.5 | 3144.7 | 3323.0 | 3500.6 | 3689.2 | 3898.1 |
| 69° | 2121.6 | 2295.9 | 2483.0 | 2661.9 | 2830.0 | 2983.5 | 3131.0 | 3313.0 | 3497.6 | 3690.2 | 3901.0 |
| 70° | 2019.3 | 2190.5 | 2379.4 | 2566.3 | 2727.1 | 2887.0 | 3039.9 | 3220.5 | 3407.6 | 3600.6 | 3821.2 |
| 72.5° | 1584.8 | 1733.2 | 1917.4 | 2098.8 | 2260.1 | 2420.6 | 2569.0 | 2753.9 | 2942.2 | 3145.0 | 3353.8 |
| 75° | 1056.2 | 1167.0 | 1304.3 | 1472.5 | 1620.5 | 1762.4 | 1906.2 | 2062.6 | 2246.2 | 2413.4 | 2604.4 |
| 77.5° | 598.2 | 662.5 | 742.2 | 851.6 | 957.8 | 1042.7 | 1145.3 | 1218.8 | 1325.5 | 1417.5 | 1514.7 |
| 80° | 307.9 | 325.2 | 349.0 | 375.3 | 390.2 | 387.9 | 403.1 | 388.0 | 391.4 | 379.1 | 365.9 |
| 82.5° | 226.4 | 232.4 | 243.1 | 248.4 | 247.9 | 230.5 | 212.2 | 186.6 | 164.1 | 140.5 | 118.8 |
| 85° | 153.8 | 157.6 | 160.4 | 164.4 | 163.3 | 155.8 | 139.2 | 117.1 | 95.4 | 76.5 | 61.3 |
| 87.5° | 26.6 | 27.4 | 27.2 | 29.5 | 29.5 | 27.4 | 22.6 | 19.2 | 16.2 | 12.1 | 8.6 |
| 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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CANDELA DISTRIBUTION (continued):

| | 80° | 81° | 82° | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 966.4 | 966.4 | 966.4 | 966.4 | 966.4 | 966.4 | 966.4 | 966.4 | 966.4 | 966.4 | 966.4 |
| 2.5° | 968.6 | 968.6 | 969.2 | 968.6 | 968.6 | 968.6 | 968.4 | 968.9 | 968.6 | 967.8 | 967.0 |
| 5° | 981.3 | 980.4 | 980.2 | 980.8 | 981.3 | 980.2 | 981.0 | 981.8 | 980.4 | 980.7 | 980.2 |
| 7.5° | 1002.4 | 1002.2 | 1001.9 | 1002.4 | 1002.4 | 1002.2 | 1002.4 | 1001.6 | 1001.1 | 1001.9 | 1002.7 |
| 10° | 1030.8 | 1030.6 | 1031.1 | 1031.1 | 1032.2 | 1031.6 | 1031.4 | 1032.2 | 1031.6 | 1031.1 | 1031.4 |
| 12.5° | 1064.1 | 1063.2 | 1064.6 | 1064.6 | 1065.4 | 1065.4 | 1065.2 | 1065.5 | 1065.2 | 1064.4 | 1063.8 |
| 15° | 1093.8 | 1092.7 | 1093.0 | 1095.2 | 1094.9 | 1095.4 | 1095.4 | 1094.9 | 1094.6 | 1094.4 | 1094.6 |
| 17.5° | 1111.8 | 1111.2 | 1111.2 | 1112.3 | 1113.1 | 1112.8 | 1112.8 | 1112.8 | 1112.6 | 1112.8 | 1113.4 |
| 20° | 1115.0 | 1115.0 | 1115.3 | 1116.4 | 1117.8 | 1117.0 | 1117.0 | 1117.5 | 1116.9 | 1117.5 | 1117.8 |
| 22.5° | 1108.7 | 1109.2 | 1109.8 | 1111.2 | 1111.4 | 1111.4 | 1111.4 | 1111.8 | 1112.2 | 1112.2 | 1112.8 |
| 25° | 1099.8 | 1100.4 | 1101.2 | 1102.4 | 1103.4 | 1103.4 | 1103.4 | 1104.0 | 1104.0 | 1104.3 | 1104.6 |
| 27.5° | 1093.2 | 1093.8 | 1094.6 | 1095.8 | 1097.1 | 1097.2 | 1097.2 | 1097.6 | 1097.7 | 1097.9 | 1098.5 |
| 30° | 1094.1 | 1092.9 | 1093.8 | 1094.4 | 1095.2 | 1095.2 | 1094.9 | 1095.2 | 1095.5 | 1095.4 | 1095.7 |
| 32.5° | 1106.0 | 1103.4 | 1102.6 | 1102.4 | 1102.6 | 1101.8 | 1101.5 | 1101.0 | 1100.4 | 1100.4 | 1100.1 |
| 35° | 1137.3 | 1133.4 | 1133.2 | 1131.0 | 1128.8 | 1126.6 | 1126.8 | 1125.2 | 1125.8 | 1124.4 | 1123.3 |
| 37.5° | 1201.7 | 1197.3 | 1200.0 | 1195.4 | 1192.4 | 1190.1 | 1187.6 | 1184.4 | 1182.4 | 1184.9 | 1184.9 |
| 40° | 1317.0 | 1314.0 | 1313.1 | 1314.0 | 1311.2 | 1312.6 | 1306.5 | 1304.8 | 1301.3 | 1303.8 | 1307.1 |
| 42.5° | 1476.3 | 1474.4 | 1484.8 | 1486.8 | 1487.8 | 1489.5 | 1490.6 | 1481.6 | 1481.2 | 1479.3 | 1473.8 |
| 45° | 1673.0 | 1684.6 | 1684.1 | 1696.7 | 1697.3 | 1693.4 | 1695.1 | 1691.0 | 1689.3 | 1683.2 | 1690.7 |
| 47.5° | 1875.4 | 1897.3 | 1905.6 | 1908.4 | 1918.8 | 1921.3 | 1911.4 | 1908.1 | 1913.8 | 1903.9 | 1905.3 |
| 50° | 2092.4 | 2116.0 | 2135.4 | 2148.3 | 2155.7 | 2156.3 | 2148.9 | 2147.2 | 2152.4 | 2133.7 | 2142.5 |
| 52.5° | 2306.0 | 2341.8 | 2378.1 | 2397.4 | 2411.1 | 2412.2 | 2418.0 | 2411.0 | 2413.9 | 2409.4 | 2418.2 |
| 55° | 2516.4 | 2578.4 | 2621.0 | 2658.8 | 2682.7 | 2703.3 | 2705.2 | 2712.7 | 2713.2 | 2722.3 | 2713.2 |
| 57.5° | 2722.3 | 2789.8 | 2864.0 | 2930.9 | 2968.0 | 2991.4 | 3013.5 | 3043.5 | 3050.0 | 3046.4 | 3052.2 |
| 60° | 2965.2 | 3069.6 | 3170.6 | 3247.6 | 3311.8 | 3373.1 | 3406.1 | 3453.2 | 3460.6 | 3481.0 | 3463.4 |
| 62.5° | 3272.4 | 3423.8 | 3560.8 | 3664.5 | 3761.9 | 3857.4 | 3929.5 | 3965.8 | 3987.8 | 4030.4 | 4016.5 |
| 65° | 3743.4 | 3925.1 | 4106.4 | 4255.0 | 4391.5 | 4505.2 | 4614.6 | 4667.0 | 4724.8 | 4785.3 | 4796.3 |
| 67.5° | 4131.5 | 4356.3 | 4560.8 | 4741.8 | 4907.2 | 5033.5 | 5147.4 | 5238.0 | 5308.4 | 5353.0 | 5356.6 |
| 69° | 4149.1 | 4382.8 | 4604.8 | 4799.0 | 4971.6 | 5105.8 | 5225.8 | 5326.6 | 5395.1 | 5440.8 | 5452.9 |
| 70° | 4064.9 | 4304.0 | 4540.6 | 4736.8 | 4913.5 | 5050.8 | 5178.0 | 5274.0 | 5350.5 | 5397.0 | 5413.2 |
| 72.5° | 3591.3 | 3846.6 | 4099.6 | 4271.5 | 4452.0 | 4615.5 | 4717.3 | 4815.3 | 4923.2 | 4937.2 | 4981.8 |
| 75° | 2831.0 | 3045.6 | 3241.8 | 3373.4 | 3524.2 | 3670.8 | 3770.7 | 3796.6 | 3853.0 | 3924.0 | 3898.7 |
| 77.5° | 1640.6 | 1706.6 | 1833.2 | 1865.7 | 1838.2 | 1902.0 | 1923.2 | 1878.1 | 1875.8 | 1917.4 | 1834.9 |
| 80° | 363.5 | 342.9 | 368.7 | 349.5 | 350.0 | 350.6 | 344.8 | 342.6 | 346.7 | 342.6 | 336.8 |
| 82.5° | 100.7 | 97.4 | 97.9 | 96.9 | 98.8 | 97.4 | 96.6 | 98.8 | 98.6 | 98.2 | 100.2 |
| 85° | 48.4 | 47.9 | 47.0 | 46.8 | 45.7 | 44.3 | 42.1 | 42.1 | 43.2 | 41.6 | 42.4 |
| 87.5° | 6.4 | 6.1 | 6.0 | 7.2 | 6.4 | 5.2 | 5.2 | 5.2 | 5.0 | 5.0 | 5.0 |
| 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)