

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: P149052

Luminaire Tested: **TMU-E01-LED-E-U-RW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P149052
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-E01-LED-E-U-RW-7060
Description: TALON MEDIUM LED AREA LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (21) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3205.5 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 24.7
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

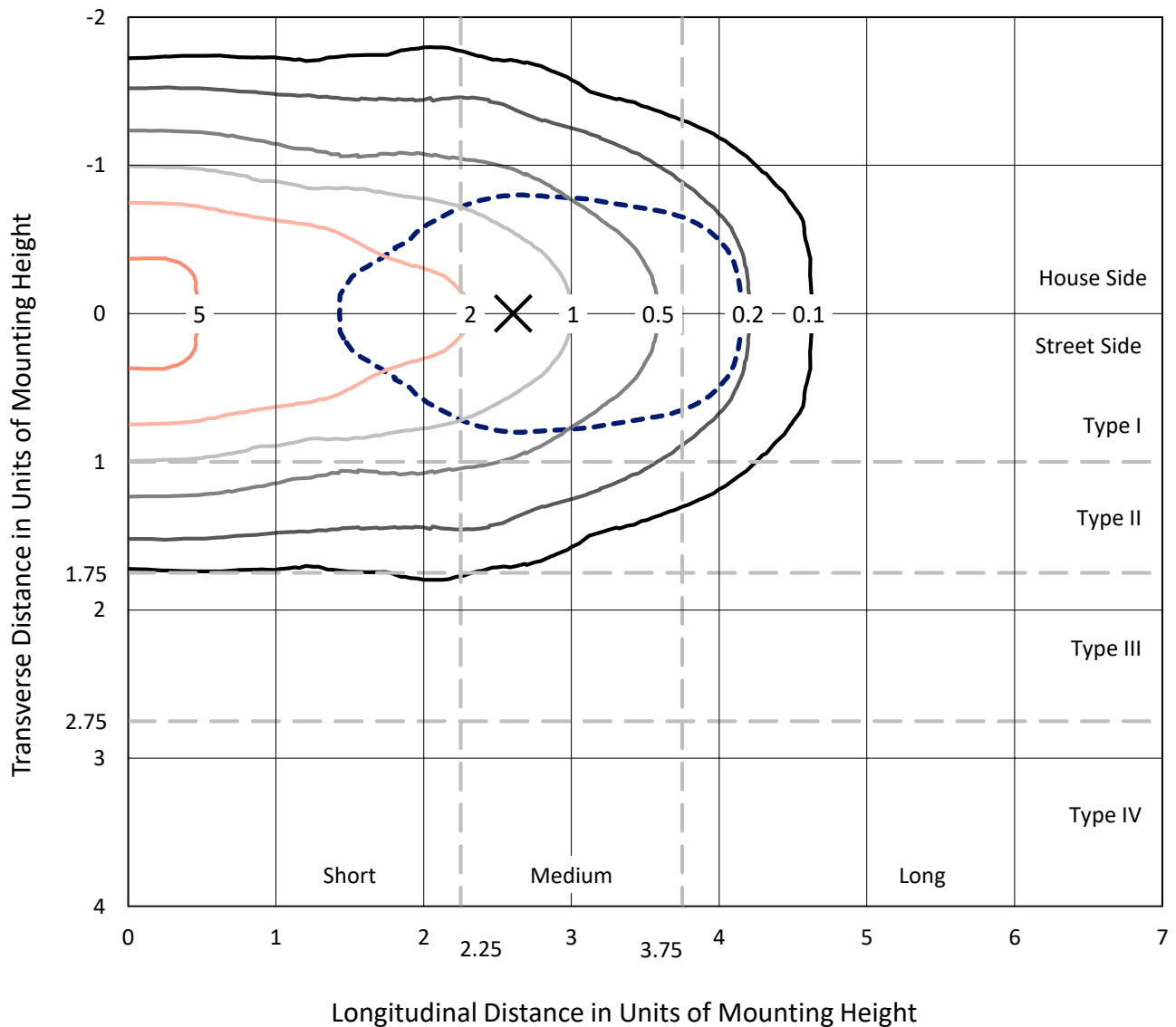


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Iso-Footcandle Lines of Horizontal Illumination

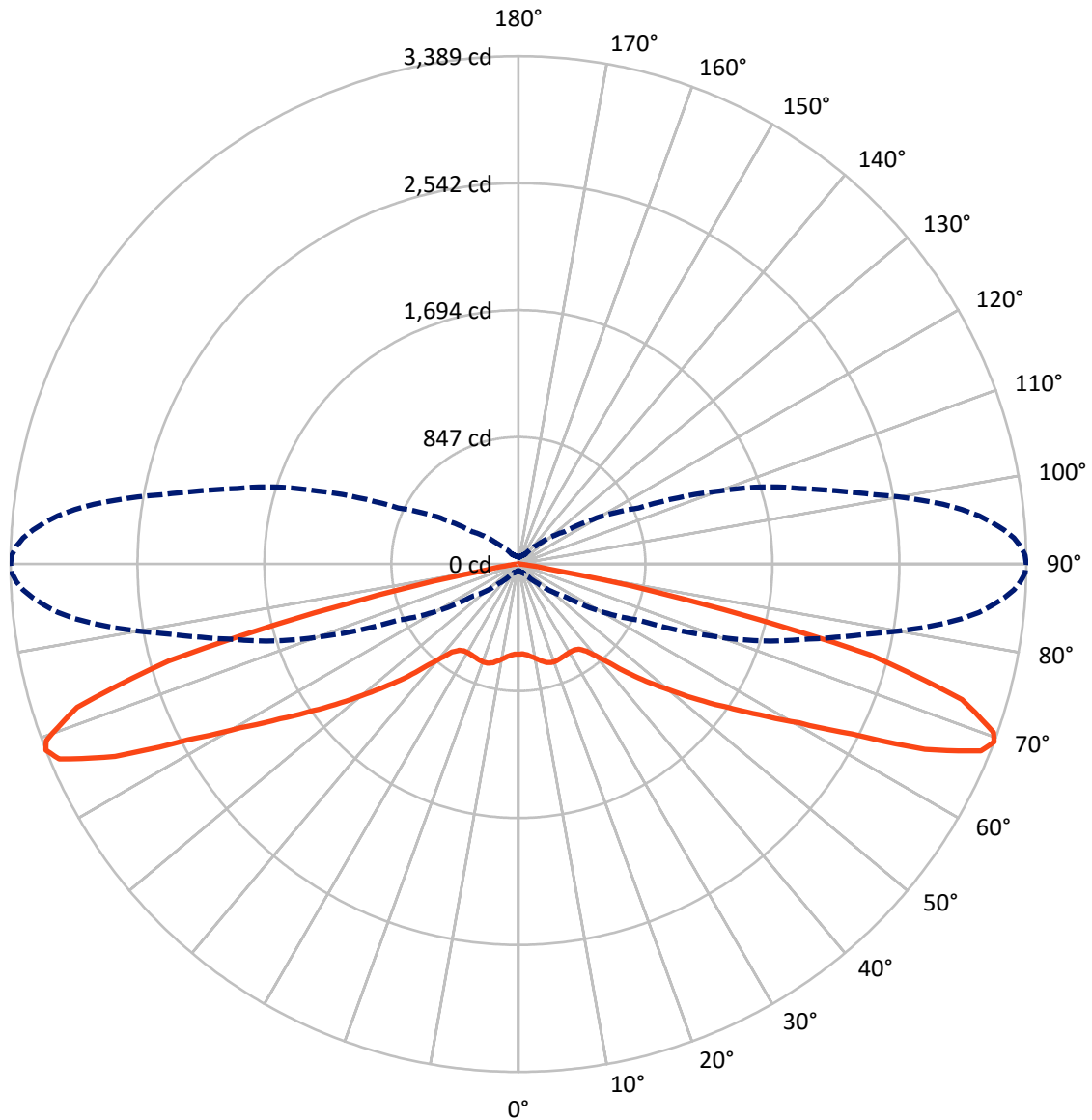
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 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 | 1602.8 | 0.0 | 1602.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1602.8 | 0.0 | 1602.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3205.5 | 0.0 | 3205.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.9 | 1.8 |
| 10°-20° | 185.9 | 5.8 |
| 20°-30° | 301.1 | 9.4 |
| 30°-40° | 375.2 | 11.7 |
| 40°-50° | 468.9 | 14.6 |
| 50°-60° | 579.0 | 18.1 |
| 60°-70° | 719.4 | 22.4 |
| 70°-80° | 477.6 | 14.9 |
| 80°-90° | 39.4 | 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° | 3205.5 | 100.0 |
| 0°-180° | 3205.5 | 100.0 |



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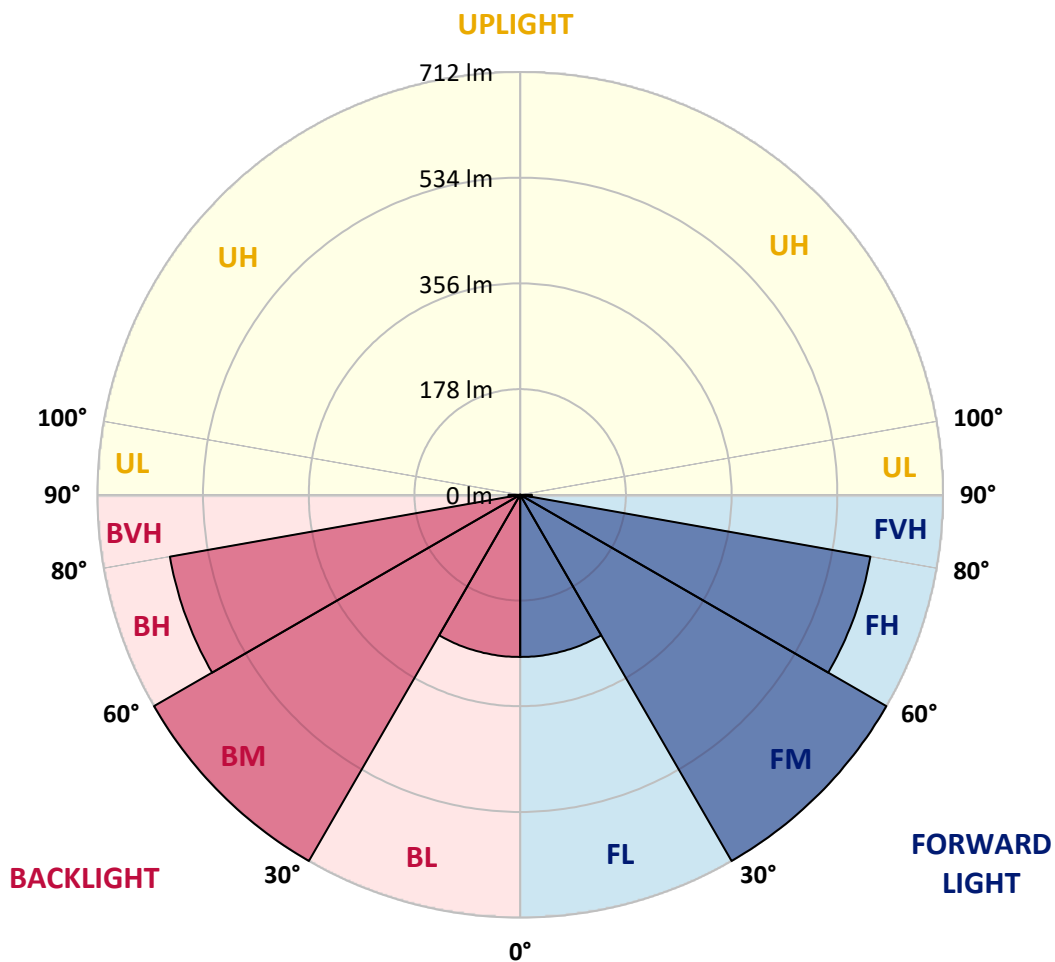
CATALOG NUMBER: TMU-E01-LED-E-U-RW-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 272.9 | 8.5 | | | |
| FM | (30°-60°) | 711.6 | 22.2 | | | |
| FH | (60°-80°) | 598.5 | 18.7 | | | G0/660 |
| FVH | (80°-90°) | 19.7 | 0.6 | | | G1/100 |
| BL | (0°-30°) | 272.9 | 8.5 | B1/500 | | |
| BM | (30°-60°) | 711.6 | 22.2 | B1/1000 | | |
| BH | (60°-80°) | 598.5 | 18.7 | B2/1000 | | G0/660 |
| BVH | (80°-90°) | 19.7 | 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° | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 |
| 2.5° | 603.3 | 603.8 | 603.5 | 604.2 | 604.0 | 604.0 | 603.6 | 603.0 | 603.0 | 602.9 | 602.8 |
| 5° | 609.2 | 608.5 | 609.5 | 610.6 | 610.2 | 610.4 | 610.2 | 610.2 | 610.1 | 610.1 | 610.0 |
| 7.5° | 615.3 | 615.2 | 615.8 | 618.6 | 619.0 | 620.0 | 621.2 | 622.0 | 622.0 | 622.1 | 622.1 |
| 10° | 620.6 | 620.8 | 622.5 | 626.4 | 628.5 | 631.7 | 635.0 | 637.6 | 637.7 | 637.9 | 638.1 |
| 12.5° | 624.9 | 625.1 | 627.7 | 633.8 | 638.8 | 644.9 | 651.9 | 655.8 | 656.2 | 656.5 | 656.9 |
| 15° | 625.2 | 625.8 | 630.2 | 640.3 | 650.2 | 660.3 | 668.7 | 674.0 | 674.2 | 674.5 | 674.8 |
| 17.5° | 620.8 | 621.2 | 628.7 | 643.5 | 660.2 | 675.8 | 684.6 | 687.0 | 687.1 | 687.2 | 687.3 |
| 20° | 609.2 | 610.0 | 620.6 | 642.6 | 668.0 | 688.5 | 697.6 | 694.3 | 694.0 | 693.6 | 693.3 |
| 22.5° | 590.4 | 590.2 | 604.0 | 633.8 | 669.6 | 698.4 | 706.4 | 697.9 | 696.9 | 695.9 | 694.9 |
| 25° | 559.9 | 562.0 | 578.2 | 613.8 | 660.8 | 700.6 | 712.8 | 699.8 | 698.3 | 696.9 | 695.4 |
| 27.5° | 526.9 | 528.1 | 545.4 | 583.6 | 640.4 | 692.9 | 715.9 | 703.6 | 701.9 | 700.3 | 698.7 |
| 30° | 488.4 | 490.0 | 508.4 | 548.3 | 607.8 | 673.2 | 715.0 | 712.1 | 710.2 | 708.3 | 706.4 |
| 32.5° | 450.8 | 452.5 | 469.1 | 512.8 | 573.4 | 646.0 | 709.9 | 724.3 | 722.3 | 720.4 | 718.4 |
| 35° | 411.8 | 414.4 | 434.6 | 478.7 | 540.2 | 615.6 | 702.0 | 739.8 | 738.8 | 737.7 | 736.6 |
| 37.5° | 379.5 | 380.0 | 399.5 | 445.8 | 509.4 | 586.8 | 691.6 | 759.4 | 760.2 | 761.0 | 761.8 |
| 40° | 343.4 | 346.7 | 366.2 | 415.0 | 481.6 | 562.3 | 681.7 | 786.2 | 790.2 | 794.3 | 798.4 |
| 42.5° | 311.1 | 311.4 | 331.2 | 381.7 | 451.3 | 542.7 | 676.2 | 818.3 | 827.0 | 835.8 | 844.5 |
| 45° | 277.0 | 278.4 | 296.4 | 345.1 | 416.4 | 519.4 | 676.1 | 855.4 | 869.4 | 883.4 | 897.3 |
| 47.5° | 244.9 | 245.4 | 264.4 | 309.7 | 376.4 | 486.9 | 674.8 | 895.3 | 914.3 | 933.3 | 952.3 |
| 50° | 214.2 | 213.6 | 232.2 | 275.8 | 336.9 | 444.3 | 664.4 | 940.4 | 964.4 | 988.4 | 1012.4 |
| 52.5° | 178.9 | 181.2 | 200.6 | 242.3 | 301.0 | 401.0 | 634.0 | 989.8 | 1018.5 | 1047.2 | 1075.9 |
| 55° | 144.3 | 145.4 | 166.1 | 205.0 | 264.6 | 360.6 | 581.0 | 1035.4 | 1069.2 | 1103.0 | 1136.8 |
| 57.5° | 106.4 | 109.4 | 127.6 | 166.1 | 227.6 | 326.6 | 513.6 | 1059.0 | 1100.1 | 1141.3 | 1182.4 |
| 60° | 75.1 | 77.4 | 93.6 | 125.8 | 187.1 | 290.9 | 455.6 | 1045.8 | 1099.3 | 1152.8 | 1206.3 |
| 62.5° | 58.5 | 60.4 | 73.2 | 94.2 | 145.9 | 255.2 | 414.0 | 1003.2 | 1076.0 | 1148.8 | 1221.6 |
| 65° | 51.3 | 53.0 | 64.6 | 75.4 | 108.9 | 218.8 | 391.3 | 958.2 | 1054.4 | 1150.6 | 1246.8 |
| 67.5° | 46.3 | 48.4 | 58.5 | 66.0 | 88.8 | 190.8 | 385.3 | 929.8 | 1038.8 | 1147.8 | 1256.7 |
| 69° | 44.2 | 46.2 | 55.2 | 61.6 | 82.4 | 180.9 | 375.0 | 885.2 | 993.5 | 1101.9 | 1210.2 |
| 70° | 42.8 | 44.4 | 52.8 | 59.3 | 80.4 | 174.1 | 358.0 | 829.4 | 935.8 | 1042.2 | 1148.6 |
| 72.5° | 39.7 | 40.5 | 47.9 | 54.2 | 74.6 | 140.7 | 275.4 | 616.0 | 708.2 | 800.5 | 892.7 |
| 75° | 35.0 | 36.0 | 43.0 | 49.1 | 58.2 | 87.4 | 174.2 | 381.0 | 449.9 | 518.7 | 587.6 |
| 77.5° | 30.2 | 31.1 | 37.1 | 46.9 | 45.2 | 54.6 | 104.2 | 212.1 | 252.0 | 292.0 | 331.9 |
| 80° | 24.3 | 25.3 | 30.6 | 46.6 | 37.2 | 42.4 | 74.9 | 148.2 | 159.0 | 169.8 | 180.6 |
| 82.5° | 17.8 | 18.6 | 24.0 | 37.6 | 28.6 | 32.0 | 57.2 | 125.7 | 129.4 | 133.2 | 136.9 |
| 85° | 9.0 | 9.2 | 15.2 | 23.0 | 18.2 | 16.6 | 32.2 | 86.1 | 88.4 | 90.8 | 93.2 |
| 87.5° | 1.6 | 1.6 | 3.4 | 4.0 | 4.4 | 2.8 | 4.1 | 14.8 | 15.2 | 15.7 | 16.1 |
| 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):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 |
| 2.5° | 602.7 | 602.6 | 602.3 | 602.4 | 602.6 | 602.4 | 602.7 | 602.7 | 602.9 | 602.2 | 602.1 |
| 5° | 609.9 | 609.9 | 609.8 | 609.8 | 609.9 | 609.9 | 610.0 | 610.3 | 610.2 | 609.8 | 609.8 |
| 7.5° | 622.1 | 622.2 | 622.3 | 622.2 | 622.5 | 622.3 | 622.0 | 622.6 | 622.9 | 623.0 | 623.3 |
| 10° | 638.3 | 638.5 | 639.1 | 639.0 | 639.6 | 639.5 | 639.6 | 640.2 | 640.6 | 640.7 | 641.1 |
| 12.5° | 657.2 | 657.6 | 657.9 | 658.2 | 658.8 | 658.4 | 659.3 | 659.6 | 660.1 | 661.2 | 660.7 |
| 15° | 675.1 | 675.4 | 676.3 | 676.3 | 676.9 | 677.1 | 677.9 | 678.2 | 678.4 | 679.2 | 679.3 |
| 17.5° | 687.4 | 687.5 | 687.8 | 687.7 | 688.2 | 688.0 | 688.6 | 688.8 | 689.2 | 689.7 | 690.5 |
| 20° | 693.0 | 692.7 | 692.5 | 692.3 | 692.0 | 691.4 | 691.6 | 691.8 | 691.9 | 692.3 | 692.9 |
| 22.5° | 693.9 | 692.9 | 691.8 | 691.1 | 690.1 | 689.2 | 688.4 | 688.4 | 688.5 | 688.4 | 688.8 |
| 25° | 694.0 | 692.5 | 690.9 | 688.9 | 687.5 | 685.5 | 683.9 | 683.7 | 683.3 | 683.3 | 683.5 |
| 27.5° | 697.1 | 695.4 | 693.2 | 690.9 | 687.8 | 685.2 | 682.6 | 681.6 | 680.7 | 680.1 | 679.8 |
| 30° | 704.5 | 702.6 | 699.9 | 697.0 | 693.6 | 689.5 | 685.8 | 684.6 | 683.3 | 682.1 | 681.1 |
| 32.5° | 716.5 | 714.5 | 711.5 | 708.5 | 704.0 | 699.9 | 696.2 | 694.4 | 692.4 | 690.4 | 688.5 |
| 35° | 735.5 | 734.4 | 731.8 | 729.1 | 725.8 | 722.6 | 719.3 | 717.2 | 714.1 | 712.4 | 710.2 |
| 37.5° | 762.6 | 763.4 | 763.4 | 763.7 | 762.7 | 761.2 | 758.8 | 756.6 | 755.5 | 751.3 | 748.6 |
| 40° | 802.5 | 806.6 | 810.4 | 813.2 | 815.8 | 818.4 | 820.6 | 819.2 | 819.6 | 818.6 | 816.9 |
| 42.5° | 853.3 | 862.0 | 870.0 | 878.0 | 883.7 | 892.7 | 899.0 | 901.0 | 906.1 | 908.1 | 911.7 |
| 45° | 911.3 | 925.2 | 938.6 | 951.0 | 962.5 | 975.4 | 988.0 | 997.3 | 1007.5 | 1019.0 | 1030.6 |
| 47.5° | 971.3 | 990.3 | 1010.0 | 1026.2 | 1042.9 | 1061.9 | 1078.6 | 1092.7 | 1111.0 | 1127.9 | 1146.6 |
| 50° | 1036.4 | 1060.4 | 1082.9 | 1102.8 | 1124.3 | 1146.3 | 1169.0 | 1189.7 | 1214.5 | 1241.6 | 1271.0 |
| 52.5° | 1104.6 | 1133.3 | 1159.4 | 1184.4 | 1209.5 | 1234.7 | 1259.0 | 1288.2 | 1318.7 | 1354.6 | 1391.3 |
| 55° | 1170.6 | 1204.5 | 1234.0 | 1261.8 | 1290.6 | 1318.8 | 1343.8 | 1382.9 | 1420.4 | 1463.2 | 1511.1 |
| 57.5° | 1223.6 | 1264.8 | 1298.8 | 1331.8 | 1364.3 | 1394.3 | 1425.1 | 1469.1 | 1516.9 | 1566.9 | 1627.7 |
| 60° | 1259.7 | 1313.2 | 1356.7 | 1396.4 | 1436.3 | 1473.9 | 1509.4 | 1566.9 | 1623.8 | 1685.9 | 1761.6 |
| 62.5° | 1294.3 | 1367.1 | 1423.8 | 1478.0 | 1531.8 | 1580.1 | 1624.2 | 1696.5 | 1770.8 | 1847.6 | 1937.6 |
| 65° | 1343.1 | 1439.3 | 1522.8 | 1598.3 | 1672.8 | 1743.8 | 1809.7 | 1901.4 | 1995.1 | 2096.3 | 2203.7 |
| 67.5° | 1365.7 | 1474.7 | 1583.5 | 1685.2 | 1779.8 | 1869.7 | 1954.4 | 2065.2 | 2175.6 | 2292.8 | 2422.6 |
| 69° | 1318.6 | 1426.9 | 1543.2 | 1654.3 | 1758.8 | 1854.2 | 1945.8 | 2059.0 | 2173.8 | 2293.4 | 2424.4 |
| 70° | 1255.0 | 1361.4 | 1478.8 | 1594.9 | 1694.9 | 1794.3 | 1889.2 | 2001.5 | 2117.8 | 2237.7 | 2374.8 |
| 72.5° | 984.9 | 1077.2 | 1191.6 | 1304.4 | 1404.6 | 1504.4 | 1596.6 | 1711.5 | 1828.5 | 1954.5 | 2084.4 |
| 75° | 656.4 | 725.3 | 810.6 | 915.2 | 1007.1 | 1095.3 | 1184.6 | 1281.9 | 1396.0 | 1499.9 | 1618.6 |
| 77.5° | 371.8 | 411.7 | 461.3 | 529.3 | 595.3 | 648.0 | 711.8 | 757.5 | 823.8 | 880.9 | 941.4 |
| 80° | 191.4 | 202.1 | 216.9 | 233.2 | 242.5 | 241.1 | 250.6 | 241.2 | 243.2 | 235.6 | 227.4 |
| 82.5° | 140.7 | 144.4 | 151.1 | 154.4 | 154.1 | 143.3 | 131.9 | 116.0 | 102.0 | 87.3 | 73.8 |
| 85° | 95.6 | 98.0 | 99.7 | 102.2 | 101.5 | 96.9 | 86.6 | 72.8 | 59.3 | 47.6 | 38.1 |
| 87.5° | 16.6 | 17.0 | 16.9 | 18.3 | 18.4 | 17.1 | 14.0 | 12.0 | 10.1 | 7.5 | 5.3 |
| 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-E01-LED-E-U-RW-7060

CANDELA DISTRIBUTION (continued):

| | 80° | 81° | 82° | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 |
| 2.5° | 602.0 | 602.0 | 602.3 | 602.0 | 602.0 | 602.0 | 601.8 | 602.2 | 602.0 | 601.4 | 601.0 |
| 5° | 609.8 | 609.3 | 609.2 | 609.5 | 609.8 | 609.2 | 609.6 | 610.2 | 609.4 | 609.5 | 609.2 |
| 7.5° | 623.0 | 622.8 | 622.7 | 623.0 | 623.0 | 622.8 | 623.0 | 622.6 | 622.2 | 622.7 | 623.2 |
| 10° | 640.7 | 640.4 | 640.8 | 640.8 | 641.5 | 641.2 | 641.0 | 641.5 | 641.2 | 640.8 | 641.0 |
| 12.5° | 661.3 | 660.8 | 661.7 | 661.7 | 662.2 | 662.2 | 662.0 | 662.2 | 662.0 | 661.5 | 661.2 |
| 15° | 679.8 | 679.1 | 679.3 | 680.7 | 680.4 | 680.8 | 680.8 | 680.5 | 680.3 | 680.2 | 680.3 |
| 17.5° | 690.9 | 690.6 | 690.6 | 691.2 | 691.8 | 691.6 | 691.6 | 691.6 | 691.4 | 691.6 | 691.9 |
| 20° | 693.0 | 692.9 | 693.2 | 693.8 | 694.6 | 694.2 | 694.2 | 694.5 | 694.2 | 694.5 | 694.7 |
| 22.5° | 689.0 | 689.4 | 689.7 | 690.6 | 690.8 | 690.8 | 690.8 | 690.9 | 691.2 | 691.2 | 691.6 |
| 25° | 683.6 | 683.9 | 684.4 | 685.1 | 685.8 | 685.8 | 685.8 | 686.2 | 686.1 | 686.3 | 686.5 |
| 27.5° | 679.4 | 679.8 | 680.3 | 681.0 | 681.8 | 681.8 | 681.8 | 682.2 | 682.2 | 682.4 | 682.7 |
| 30° | 680.0 | 679.3 | 679.8 | 680.2 | 680.6 | 680.6 | 680.5 | 680.7 | 680.8 | 680.8 | 681.0 |
| 32.5° | 687.3 | 685.8 | 685.3 | 685.1 | 685.2 | 684.8 | 684.6 | 684.2 | 683.9 | 683.9 | 683.7 |
| 35° | 706.8 | 704.4 | 704.2 | 702.8 | 701.6 | 700.2 | 700.3 | 699.3 | 699.6 | 698.8 | 698.1 |
| 37.5° | 746.8 | 744.1 | 745.8 | 742.9 | 741.0 | 739.7 | 738.1 | 736.1 | 734.8 | 736.4 | 736.4 |
| 40° | 818.5 | 816.6 | 816.1 | 816.6 | 814.9 | 815.8 | 812.0 | 810.9 | 808.8 | 810.3 | 812.3 |
| 42.5° | 917.5 | 916.3 | 922.8 | 924.0 | 924.7 | 925.7 | 926.4 | 920.8 | 920.6 | 919.4 | 916.0 |
| 45° | 1039.8 | 1047.0 | 1046.6 | 1054.5 | 1054.8 | 1052.4 | 1053.5 | 1050.9 | 1049.9 | 1046.2 | 1050.7 |
| 47.5° | 1165.5 | 1179.2 | 1184.3 | 1186.0 | 1192.6 | 1194.1 | 1187.9 | 1185.8 | 1189.4 | 1183.2 | 1184.1 |
| 50° | 1300.4 | 1315.2 | 1327.1 | 1335.2 | 1339.8 | 1340.1 | 1335.5 | 1334.4 | 1337.7 | 1326.1 | 1331.5 |
| 52.5° | 1433.1 | 1455.4 | 1477.9 | 1489.9 | 1498.5 | 1499.1 | 1502.7 | 1498.5 | 1500.2 | 1497.4 | 1502.9 |
| 55° | 1564.0 | 1602.4 | 1628.9 | 1652.4 | 1667.2 | 1680.1 | 1681.2 | 1685.8 | 1686.2 | 1691.8 | 1686.2 |
| 57.5° | 1691.8 | 1733.8 | 1780.0 | 1821.6 | 1844.6 | 1859.2 | 1872.8 | 1891.4 | 1895.6 | 1893.3 | 1896.9 |
| 60° | 1842.9 | 1907.7 | 1970.4 | 2018.4 | 2058.2 | 2096.4 | 2116.8 | 2146.1 | 2150.7 | 2163.4 | 2152.4 |
| 62.5° | 2033.8 | 2127.8 | 2213.0 | 2277.4 | 2338.0 | 2397.3 | 2442.1 | 2464.7 | 2478.4 | 2504.9 | 2496.2 |
| 65° | 2326.5 | 2439.4 | 2552.1 | 2644.4 | 2729.2 | 2799.9 | 2868.0 | 2900.4 | 2936.4 | 2974.0 | 2980.8 |
| 67.5° | 2567.6 | 2707.4 | 2834.4 | 2947.0 | 3049.8 | 3128.2 | 3199.0 | 3255.3 | 3299.1 | 3326.8 | 3329.0 |
| 69° | 2578.6 | 2723.8 | 2861.8 | 2982.6 | 3089.8 | 3173.2 | 3247.8 | 3310.4 | 3353.0 | 3381.4 | 3388.9 |
| 70° | 2526.3 | 2674.9 | 2822.0 | 2943.9 | 3053.6 | 3139.0 | 3218.0 | 3277.8 | 3325.2 | 3354.2 | 3364.3 |
| 72.5° | 2232.0 | 2390.6 | 2547.8 | 2654.7 | 2766.9 | 2868.5 | 2931.8 | 2992.6 | 3059.7 | 3068.4 | 3096.1 |
| 75° | 1759.4 | 1892.8 | 2014.8 | 2096.5 | 2190.2 | 2281.4 | 2343.4 | 2359.6 | 2394.6 | 2438.7 | 2423.0 |
| 77.5° | 1019.6 | 1060.6 | 1139.3 | 1159.5 | 1142.4 | 1182.1 | 1195.2 | 1167.2 | 1165.8 | 1191.6 | 1140.3 |
| 80° | 225.9 | 213.1 | 229.2 | 217.2 | 217.6 | 217.8 | 214.3 | 213.0 | 215.5 | 213.0 | 209.3 |
| 82.5° | 62.6 | 60.6 | 60.9 | 60.2 | 61.4 | 60.5 | 60.0 | 61.4 | 61.2 | 61.1 | 62.3 |
| 85° | 30.1 | 29.8 | 29.2 | 29.0 | 28.4 | 27.6 | 26.2 | 26.2 | 26.8 | 25.8 | 26.3 |
| 87.5° | 4.0 | 3.8 | 3.8 | 4.4 | 3.9 | 3.2 | 3.2 | 3.2 | 3.0 | 3.0 | 3.1 |
| 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)