

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: P155708

Luminaire Tested: **TMU-E03-LED-E-U-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P155708
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TMU-E03-LED-E-U-T3-8030
Description: TALON MEDIUM LED AREA LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7808.4 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

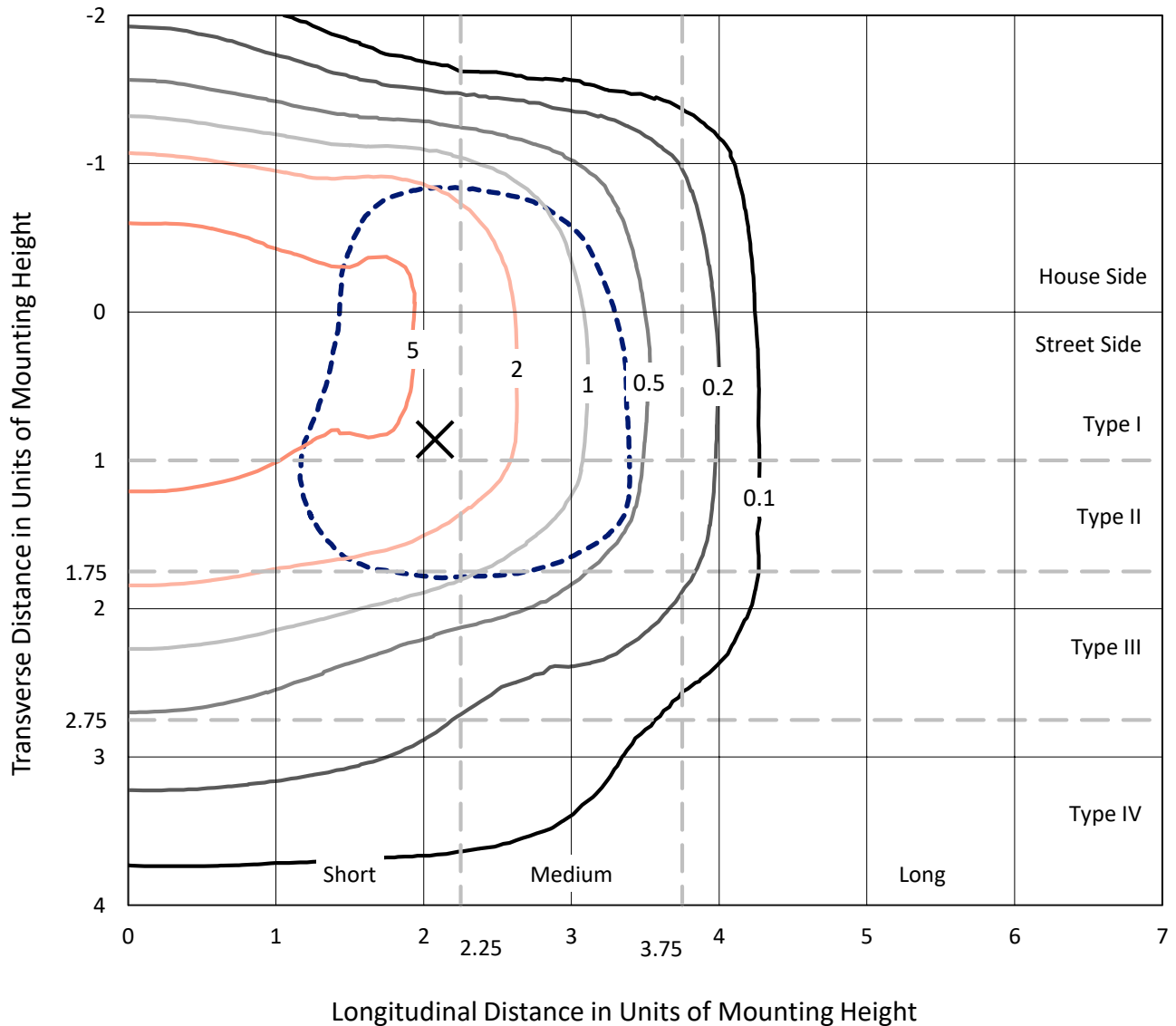
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P155708
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Iso-Footcandle Lines of Horizontal Illumination

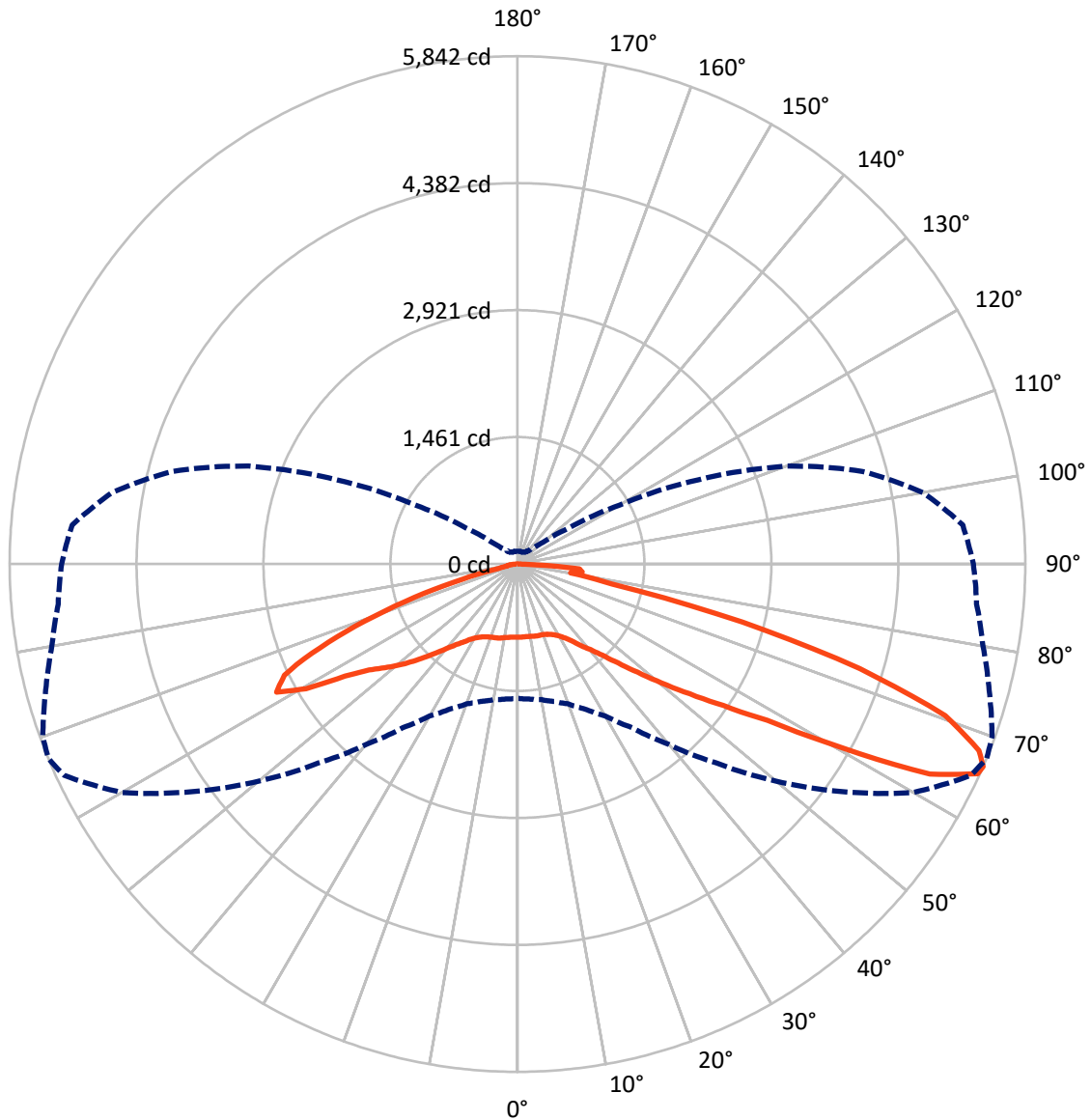
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2696.5 | 0.0 | 2696.5 |
| | % Fixture | 34.5 | 0.0 | 34.5 |
| Street Side | Lumens | 5111.9 | 0.0 | 5111.9 |
| | % Fixture | 65.5 | 0.0 | 65.5 |
| Total | Lumens | 7808.4 | 0.0 | 7808.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 80.6 | 1.0 |
| 10°-20° | 237.9 | 3.0 |
| 20°-30° | 408.8 | 5.2 |
| 30°-40° | 663.8 | 8.5 |
| 40°-50° | 1108.1 | 14.2 |
| 50°-60° | 1744.9 | 22.3 |
| 60°-70° | 2379.4 | 30.5 |
| 70°-80° | 1030.0 | 13.2 |
| 80°-90° | 154.9 | 2.0 |
| 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° | 7808.4 | 100.0 |
| 0°-180° | 7808.4 | 100.0 |

Coefficient of Utilization



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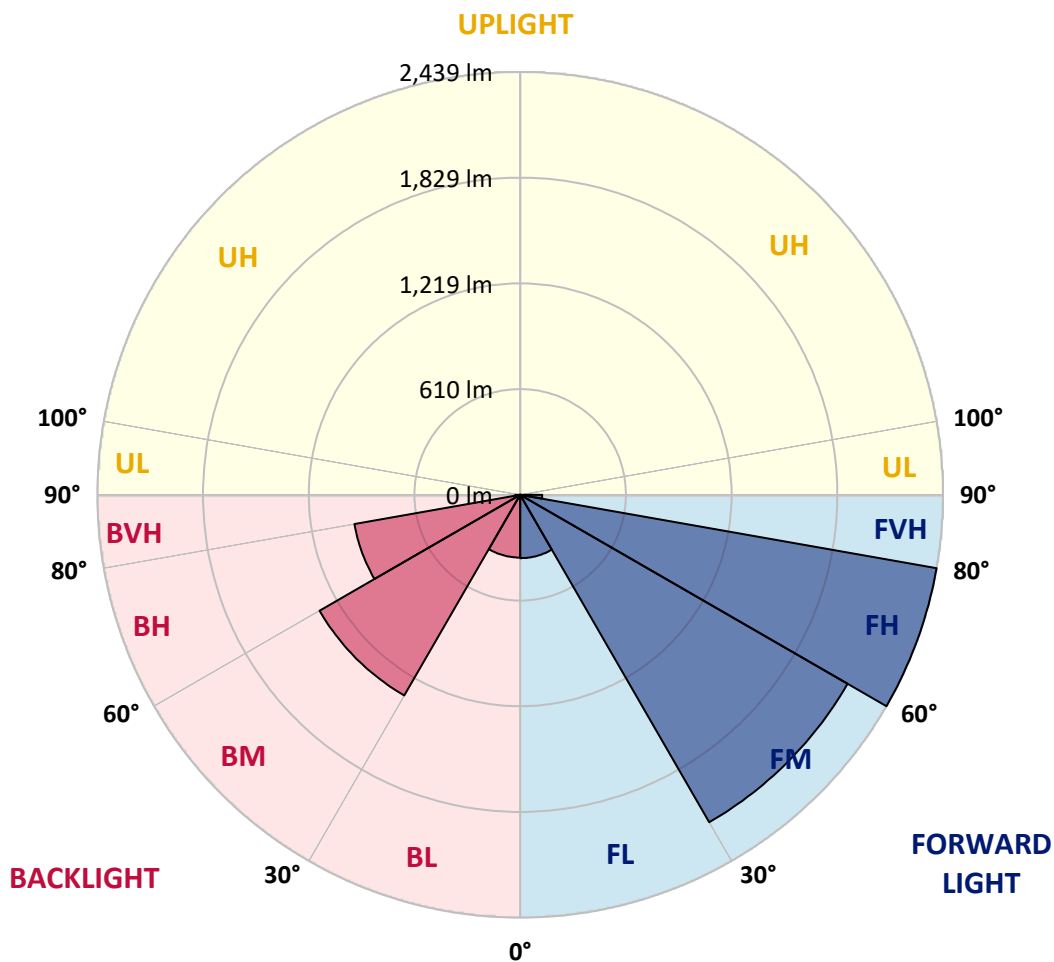
CATALOG NUMBER: TMU-E03-LED-E-U-T3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 365.3 | 4.7 | | | |
| FM | (30°-60°) | 2180.6 | 27.9 | | | |
| FH | (60°-80°) | 2438.8 | 31.2 | | | G2/5000 |
| FVH | (80°-90°) | 127.2 | 1.6 | | | G2/225 |
| BL | (0°-30°) | 362.0 | 4.6 | B1/500 | | |
| BM | (30°-60°) | 1336.2 | 17.1 | B2/2500 | | |
| BH | (60°-80°) | 970.6 | 12.4 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 27.7 | 0.4 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 |
| 2.5° | 844.8 | 848.2 | 844.8 | 845.7 | 846.5 | 845.7 | 844.8 | 844.8 | 842.3 | 844.0 | 845.7 |
| 5° | 841.5 | 844.0 | 843.1 | 844.0 | 844.8 | 844.0 | 843.1 | 844.0 | 842.3 | 843.1 | 845.7 |
| 7.5° | 837.2 | 836.4 | 837.2 | 838.9 | 840.6 | 840.6 | 840.6 | 841.5 | 840.6 | 840.6 | 843.1 |
| 10° | 824.6 | 825.4 | 827.1 | 829.6 | 830.5 | 833.0 | 833.0 | 835.6 | 836.4 | 838.1 | 841.5 |
| 12.5° | 808.5 | 809.4 | 811.1 | 812.8 | 817.0 | 821.2 | 821.2 | 827.1 | 829.6 | 833.9 | 839.8 |
| 15° | 796.7 | 797.6 | 799.3 | 800.9 | 804.3 | 808.5 | 811.1 | 817.8 | 822.0 | 829.6 | 838.1 |
| 17.5° | 803.5 | 802.6 | 804.3 | 805.2 | 805.2 | 808.5 | 808.5 | 813.6 | 818.7 | 825.4 | 836.4 |
| 20° | 822.9 | 822.9 | 824.6 | 824.6 | 823.7 | 825.4 | 822.0 | 822.0 | 822.9 | 826.3 | 833.9 |
| 22.5° | 842.3 | 841.5 | 844.8 | 846.5 | 847.4 | 849.9 | 846.5 | 845.7 | 841.5 | 838.9 | 841.5 |
| 25° | 860.9 | 860.0 | 864.2 | 866.8 | 871.0 | 873.5 | 873.5 | 873.5 | 870.2 | 865.9 | 863.4 |
| 27.5° | 889.6 | 889.6 | 893.8 | 896.3 | 899.7 | 904.8 | 907.3 | 907.3 | 908.1 | 902.2 | 898.0 |
| 30° | 937.7 | 938.5 | 939.4 | 942.7 | 946.1 | 947.8 | 951.2 | 953.7 | 956.2 | 952.9 | 946.1 |
| 32.5° | 995.1 | 990.0 | 990.0 | 995.1 | 999.3 | 1004.3 | 1006.0 | 1009.4 | 1014.5 | 1011.9 | 1011.1 |
| 35° | 1063.4 | 1061.7 | 1060.1 | 1061.7 | 1066.8 | 1072.7 | 1079.5 | 1085.4 | 1082.0 | 1087.1 | 1084.5 |
| 37.5° | 1164.7 | 1166.4 | 1167.2 | 1167.2 | 1166.4 | 1168.1 | 1171.5 | 1177.4 | 1175.7 | 1177.4 | 1180.7 |
| 40° | 1331.8 | 1325.9 | 1320.0 | 1320.8 | 1312.4 | 1314.1 | 1300.6 | 1306.5 | 1307.3 | 1301.4 | 1304.0 |
| 42.5° | 1498.9 | 1502.3 | 1504.8 | 1511.6 | 1505.7 | 1502.3 | 1489.6 | 1489.6 | 1482.9 | 1477.0 | 1475.3 |
| 45° | 1679.5 | 1686.3 | 1687.1 | 1700.6 | 1695.6 | 1706.5 | 1715.8 | 1713.3 | 1702.3 | 1701.5 | 1689.7 |
| 47.5° | 1823.9 | 1834.8 | 1846.7 | 1862.7 | 1875.3 | 1899.8 | 1928.5 | 1942.9 | 1951.3 | 1958.1 | 1944.6 |
| 50° | 1931.9 | 1937.0 | 1967.3 | 1992.7 | 2020.5 | 2061.0 | 2100.7 | 2152.2 | 2193.5 | 2212.9 | 2231.5 |
| 52.5° | 1990.1 | 2002.8 | 2035.7 | 2075.4 | 2124.3 | 2185.1 | 2249.2 | 2331.1 | 2402.0 | 2449.3 | 2491.5 |
| 55° | 2002.8 | 2015.5 | 2052.6 | 2103.2 | 2169.9 | 2251.8 | 2343.8 | 2455.2 | 2561.5 | 2652.7 | 2741.3 |
| 57.5° | 1967.3 | 1981.7 | 2021.4 | 2079.6 | 2158.1 | 2257.7 | 2373.3 | 2519.3 | 2666.2 | 2813.9 | 2944.7 |
| 60° | 1902.4 | 1920.1 | 1956.4 | 2013.8 | 2100.7 | 2212.9 | 2351.4 | 2534.5 | 2740.4 | 2966.6 | 3217.3 |
| 62.5° | 1795.2 | 1813.7 | 1847.5 | 1910.8 | 2000.3 | 2124.3 | 2284.7 | 2512.6 | 2803.7 | 3159.9 | 3604.7 |
| 65° | 1623.0 | 1631.4 | 1672.8 | 1736.9 | 1816.3 | 1953.0 | 2129.4 | 2404.5 | 2783.5 | 3278.9 | 3891.6 |
| 66° | 1545.3 | 1559.7 | 1585.0 | 1636.5 | 1712.5 | 1840.7 | 2018.0 | 2297.3 | 2706.7 | 3237.5 | 3884.0 |
| 67.5° | 1423.8 | 1434.8 | 1451.7 | 1486.3 | 1532.7 | 1627.2 | 1795.2 | 2059.3 | 2472.0 | 3028.2 | 3722.8 |
| 70° | 1151.2 | 1156.3 | 1179.1 | 1190.9 | 1206.9 | 1238.1 | 1298.9 | 1450.8 | 1772.4 | 2294.8 | 3004.6 |
| 72.5° | 784.9 | 799.3 | 823.7 | 857.5 | 901.4 | 943.6 | 972.3 | 991.7 | 1060.9 | 1369.0 | 2001.9 |
| 75° | 575.6 | 590.8 | 622.0 | 666.8 | 743.6 | 831.3 | 922.5 | 964.7 | 936.0 | 896.3 | 1114.9 |
| 77.5° | 334.2 | 354.5 | 380.6 | 423.7 | 494.6 | 611.0 | 767.2 | 905.6 | 999.3 | 1005.2 | 954.6 |
| 80° | 140.9 | 143.5 | 159.5 | 181.5 | 225.3 | 307.2 | 428.7 | 627.9 | 835.6 | 975.7 | 1008.6 |
| 82.5° | 32.1 | 39.7 | 50.6 | 59.9 | 73.4 | 101.3 | 150.2 | 249.8 | 451.5 | 708.1 | 923.3 |
| 85° | 11.8 | 11.8 | 16.0 | 23.6 | 27.0 | 30.4 | 39.7 | 63.3 | 108.0 | 199.2 | 415.2 |
| 87.5° | 0.0 | 0.8 | 1.7 | 1.7 | 3.4 | 4.2 | 6.8 | 9.3 | 8.4 | 7.6 | 25.3 |
| 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-E03-LED-E-U-T3-8030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 |
| 2.5° | 844.0 | 843.1 | 841.5 | 841.5 | 841.5 | 841.5 | 839.8 | 840.6 | 838.9 | 839.8 | 839.8 |
| 5° | 843.1 | 843.1 | 842.3 | 840.6 | 841.5 | 841.5 | 842.3 | 840.6 | 840.6 | 841.5 | 840.6 |
| 7.5° | 843.1 | 842.3 | 842.3 | 842.3 | 843.1 | 842.3 | 843.1 | 843.1 | 843.1 | 844.0 | 844.0 |
| 10° | 843.1 | 843.1 | 844.8 | 845.7 | 845.7 | 846.5 | 849.1 | 849.1 | 849.9 | 850.7 | 852.4 |
| 12.5° | 844.0 | 847.4 | 849.9 | 852.4 | 853.3 | 855.0 | 859.2 | 859.2 | 860.9 | 863.4 | 864.2 |
| 15° | 844.8 | 849.9 | 855.0 | 856.7 | 858.3 | 861.7 | 865.9 | 867.6 | 870.2 | 872.7 | 874.4 |
| 17.5° | 844.0 | 850.7 | 856.7 | 859.2 | 861.7 | 865.9 | 871.0 | 872.7 | 876.1 | 879.4 | 882.8 |
| 20° | 843.1 | 852.4 | 861.7 | 865.1 | 868.5 | 874.4 | 881.1 | 885.3 | 888.7 | 893.8 | 897.2 |
| 22.5° | 848.2 | 859.2 | 871.8 | 876.9 | 882.8 | 890.4 | 899.7 | 904.8 | 909.0 | 914.0 | 916.6 |
| 25° | 864.2 | 872.7 | 887.9 | 896.3 | 903.9 | 916.6 | 929.2 | 935.1 | 940.2 | 944.4 | 945.3 |
| 27.5° | 891.3 | 893.8 | 912.4 | 923.3 | 934.3 | 954.6 | 969.7 | 974.0 | 983.2 | 986.6 | 985.8 |
| 30° | 935.1 | 930.9 | 946.1 | 963.0 | 979.0 | 1006.9 | 1025.4 | 1036.4 | 1044.9 | 1044.9 | 1038.1 |
| 32.5° | 998.4 | 991.7 | 995.9 | 1015.3 | 1033.9 | 1074.4 | 1096.3 | 1110.7 | 1116.6 | 1114.9 | 1100.6 |
| 35° | 1081.2 | 1076.9 | 1074.4 | 1089.6 | 1119.1 | 1166.4 | 1195.1 | 1202.7 | 1212.0 | 1210.3 | 1191.7 |
| 37.5° | 1179.1 | 1175.7 | 1175.7 | 1193.4 | 1222.1 | 1292.2 | 1323.4 | 1328.4 | 1327.6 | 1314.1 | 1279.5 |
| 40° | 1294.7 | 1293.0 | 1285.4 | 1295.5 | 1320.0 | 1411.2 | 1453.4 | 1460.1 | 1450.8 | 1428.9 | 1388.4 |
| 42.5° | 1460.9 | 1450.8 | 1427.2 | 1433.1 | 1451.7 | 1540.3 | 1595.1 | 1613.7 | 1604.4 | 1582.5 | 1516.7 |
| 45° | 1677.9 | 1666.9 | 1627.2 | 1622.2 | 1632.3 | 1709.9 | 1780.8 | 1785.0 | 1783.4 | 1755.5 | 1677.9 |
| 47.5° | 1932.7 | 1915.9 | 1873.7 | 1860.2 | 1856.8 | 1928.5 | 1996.9 | 2003.6 | 1999.4 | 1958.1 | 1854.2 |
| 50° | 2208.7 | 2184.2 | 2156.4 | 2147.1 | 2133.6 | 2185.1 | 2254.3 | 2255.1 | 2238.3 | 2180.9 | 2083.8 |
| 52.5° | 2503.3 | 2494.8 | 2489.8 | 2480.5 | 2474.6 | 2519.3 | 2561.5 | 2536.2 | 2510.9 | 2450.9 | 2366.6 |
| 55° | 2800.4 | 2835.0 | 2870.4 | 2873.8 | 2883.9 | 2932.0 | 2931.2 | 2862.0 | 2843.4 | 2810.5 | 2726.9 |
| 57.5° | 3116.0 | 3244.3 | 3355.7 | 3390.3 | 3424.1 | 3513.5 | 3505.1 | 3436.7 | 3413.1 | 3372.6 | 3303.4 |
| 60° | 3545.6 | 3891.6 | 4213.2 | 4290.0 | 4343.2 | 4450.4 | 4440.2 | 4334.7 | 4383.7 | 4380.3 | 4290.8 |
| 62.5° | 4147.4 | 4723.0 | 5204.9 | 5323.1 | 5360.2 | 5372.0 | 5307.9 | 5193.9 | 5242.0 | 5296.0 | 5020.9 |
| 65° | 4555.0 | 5231.9 | 5726.5 | 5817.6 | 5822.7 | 5681.7 | 5539.1 | 5404.9 | 5393.1 | 5346.7 | 4953.4 |
| 66° | 4564.3 | 5257.2 | 5753.5 | 5842.1 | 5810.9 | 5618.4 | 5437.8 | 5302.8 | 5244.6 | 5142.4 | 4734.8 |
| 67.5° | 4400.6 | 5099.4 | 5633.6 | 5727.3 | 5659.0 | 5386.4 | 5137.4 | 4963.5 | 4849.6 | 4684.1 | 4324.6 |
| 70° | 3695.8 | 4388.8 | 5047.1 | 5221.8 | 5243.7 | 4836.9 | 4491.7 | 4287.5 | 4133.9 | 3906.8 | 3597.1 |
| 72.5° | 2748.0 | 3374.3 | 3954.9 | 4122.1 | 4207.3 | 3882.4 | 3591.2 | 3435.9 | 3225.7 | 2986.9 | 2766.6 |
| 75° | 1722.6 | 2164.8 | 2553.9 | 2671.2 | 2591.1 | 2339.5 | 2164.8 | 2099.8 | 1893.1 | 1750.4 | 1650.0 |
| 77.5° | 984.9 | 1123.4 | 1154.6 | 1109.8 | 1015.3 | 777.3 | 552.8 | 409.3 | 355.3 | 393.3 | 433.8 |
| 80° | 961.3 | 881.1 | 702.2 | 617.8 | 559.6 | 384.9 | 226.2 | 155.3 | 129.1 | 132.5 | 143.5 |
| 82.5° | 1041.5 | 1117.4 | 920.0 | 750.3 | 629.6 | 425.4 | 234.6 | 124.9 | 84.4 | 99.6 | 112.3 |
| 85° | 676.9 | 941.9 | 848.2 | 714.9 | 579.0 | 363.8 | 193.3 | 65.0 | 43.0 | 56.5 | 77.6 |
| 87.5° | 68.4 | 75.1 | 64.1 | 86.9 | 65.0 | 30.4 | 15.2 | 9.3 | 8.4 | 10.1 | 15.2 |
| 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-E03-LED-E-U-T3-8030

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0° | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 |
| 2.5° | 840.6 | 840.6 | 841.5 | 842.3 | 843.1 | 844.0 | 844.0 | 844.0 | 844.0 | 845.7 | 844.8 |
| 5° | 842.3 | 844.0 | 845.7 | 846.5 | 848.2 | 848.2 | 850.7 | 849.9 | 849.9 | 852.4 | 853.3 |
| 7.5° | 845.7 | 848.2 | 851.6 | 850.7 | 854.1 | 853.3 | 855.0 | 855.0 | 852.4 | 853.3 | 851.6 |
| 10° | 853.3 | 856.7 | 858.3 | 855.8 | 856.7 | 853.3 | 852.4 | 848.2 | 843.1 | 840.6 | 837.2 |
| 12.5° | 865.9 | 869.3 | 869.3 | 865.1 | 860.0 | 852.4 | 846.5 | 837.2 | 829.6 | 825.4 | 821.2 |
| 15° | 876.9 | 880.3 | 879.4 | 872.7 | 865.1 | 853.3 | 844.8 | 833.9 | 822.9 | 816.1 | 811.9 |
| 17.5° | 885.3 | 887.0 | 884.5 | 875.2 | 866.8 | 855.8 | 847.4 | 835.6 | 822.9 | 814.5 | 806.9 |
| 20° | 898.0 | 896.3 | 890.4 | 878.6 | 869.3 | 859.2 | 852.4 | 842.3 | 828.0 | 817.0 | 806.0 |
| 22.5° | 916.6 | 909.8 | 898.9 | 886.2 | 876.9 | 867.6 | 860.9 | 849.9 | 835.6 | 822.0 | 809.4 |
| 25° | 941.0 | 927.5 | 912.4 | 898.9 | 890.4 | 880.3 | 872.7 | 860.9 | 845.7 | 830.5 | 815.3 |
| 27.5° | 976.5 | 952.9 | 933.5 | 921.6 | 912.4 | 899.7 | 890.4 | 875.2 | 859.2 | 841.5 | 824.6 |
| 30° | 1016.2 | 984.1 | 965.5 | 956.2 | 946.1 | 932.6 | 918.3 | 898.9 | 880.3 | 860.9 | 840.6 |
| 32.5° | 1067.6 | 1028.8 | 1011.1 | 1001.8 | 988.3 | 971.4 | 954.6 | 932.6 | 906.4 | 881.1 | 856.7 |
| 35° | 1135.2 | 1095.5 | 1076.9 | 1062.6 | 1044.0 | 1022.1 | 997.6 | 968.1 | 932.6 | 898.9 | 867.6 |
| 37.5° | 1207.8 | 1164.7 | 1147.0 | 1131.8 | 1103.9 | 1075.2 | 1040.6 | 997.6 | 949.5 | 904.8 | 865.9 |
| 40° | 1299.7 | 1260.1 | 1237.3 | 1211.1 | 1178.2 | 1128.4 | 1074.4 | 1011.9 | 950.3 | 895.5 | 849.9 |
| 42.5° | 1416.2 | 1376.5 | 1342.8 | 1301.4 | 1244.0 | 1167.2 | 1090.4 | 1009.4 | 935.1 | 872.7 | 823.7 |
| 45° | 1570.7 | 1522.6 | 1464.3 | 1391.7 | 1298.9 | 1191.7 | 1091.3 | 993.4 | 906.4 | 837.2 | 784.9 |
| 47.5° | 1759.7 | 1686.3 | 1590.9 | 1468.5 | 1335.2 | 1198.5 | 1077.8 | 961.3 | 861.7 | 786.6 | 728.4 |
| 50° | 1984.2 | 1868.6 | 1711.6 | 1531.8 | 1353.8 | 1188.3 | 1044.0 | 913.2 | 798.4 | 718.2 | 649.0 |
| 52.5° | 2240.8 | 2051.7 | 1820.5 | 1577.4 | 1352.9 | 1154.6 | 986.6 | 840.6 | 715.7 | 626.2 | 560.4 |
| 55° | 2542.1 | 2261.1 | 1932.7 | 1611.2 | 1329.3 | 1092.1 | 898.9 | 738.5 | 613.6 | 530.9 | 470.1 |
| 57.5° | 2983.5 | 2600.3 | 2128.5 | 1663.5 | 1282.0 | 995.9 | 779.8 | 616.1 | 506.4 | 427.9 | 376.4 |
| 60° | 3790.4 | 3166.7 | 2481.3 | 1769.0 | 1209.4 | 855.0 | 640.6 | 485.3 | 393.3 | 330.0 | 295.4 |
| 62.5° | 4398.0 | 3604.7 | 2672.1 | 1745.4 | 1063.4 | 681.1 | 475.2 | 353.6 | 289.5 | 246.4 | 224.5 |
| 65° | 4311.1 | 3468.8 | 2468.7 | 1503.1 | 833.9 | 480.2 | 315.7 | 240.5 | 199.2 | 178.9 | 166.3 |
| 66° | 4114.5 | 3291.6 | 2292.3 | 1352.9 | 720.8 | 399.2 | 259.9 | 201.7 | 171.3 | 157.0 | 148.5 |
| 67.5° | 3741.4 | 2962.4 | 1976.6 | 1109.0 | 553.7 | 289.5 | 195.8 | 159.5 | 139.3 | 133.4 | 127.4 |
| 70° | 3110.1 | 2362.3 | 1387.5 | 645.7 | 282.7 | 161.2 | 124.1 | 111.4 | 106.3 | 105.5 | 103.8 |
| 72.5° | 2383.4 | 1671.9 | 817.0 | 305.5 | 146.9 | 107.2 | 96.2 | 92.0 | 90.3 | 90.3 | 91.2 |
| 75° | 1460.9 | 939.4 | 361.2 | 149.4 | 103.0 | 90.3 | 85.2 | 83.6 | 82.7 | 83.6 | 82.7 |
| 77.5° | 487.8 | 298.8 | 154.5 | 113.1 | 93.7 | 83.6 | 80.2 | 78.5 | 78.5 | 78.5 | 78.5 |
| 80° | 149.4 | 130.0 | 118.2 | 104.7 | 88.6 | 79.3 | 74.3 | 73.4 | 74.3 | 75.1 | 72.6 |
| 82.5° | 112.3 | 106.3 | 99.6 | 92.8 | 80.2 | 70.9 | 69.2 | 69.2 | 69.2 | 66.7 | 63.3 |
| 85° | 82.7 | 81.9 | 67.5 | 63.3 | 59.1 | 59.1 | 59.1 | 59.1 | 56.5 | 52.3 | 49.0 |
| 87.5° | 15.2 | 14.3 | 15.2 | 16.0 | 23.6 | 25.3 | 25.3 | 27.0 | 29.5 | 27.9 | 27.9 |
| 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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| | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|
| 0° | 841.5 | 841.5 | 841.5 | 841.5 | 841.5 |
| 2.5° | 844.8 | 844.0 | 846.5 | 844.8 | 845.7 |
| 5° | 852.4 | 851.6 | 853.3 | 851.6 | 854.1 |
| 7.5° | 849.9 | 848.2 | 847.4 | 848.2 | 849.1 |
| 10° | 832.2 | 830.5 | 829.6 | 828.8 | 829.6 |
| 12.5° | 817.0 | 813.6 | 813.6 | 811.9 | 812.8 |
| 15° | 806.0 | 803.5 | 802.6 | 800.9 | 801.8 |
| 17.5° | 800.9 | 796.7 | 795.0 | 793.4 | 793.4 |
| 20° | 797.6 | 792.5 | 790.0 | 788.3 | 787.4 |
| 22.5° | 797.6 | 790.0 | 786.6 | 784.9 | 784.1 |
| 25° | 800.9 | 791.7 | 786.6 | 784.1 | 783.2 |
| 27.5° | 807.7 | 795.9 | 790.0 | 786.6 | 786.6 |
| 30° | 819.5 | 804.3 | 795.9 | 791.7 | 790.8 |
| 32.5° | 831.3 | 811.1 | 799.3 | 794.2 | 792.5 |
| 35° | 837.2 | 811.1 | 796.7 | 788.3 | 786.6 |
| 37.5° | 830.5 | 800.1 | 782.4 | 769.7 | 767.2 |
| 40° | 809.4 | 777.3 | 757.9 | 746.1 | 744.4 |
| 42.5° | 781.5 | 750.3 | 727.5 | 719.1 | 716.5 |
| 45° | 743.6 | 706.4 | 683.6 | 671.8 | 672.7 |
| 47.5° | 678.6 | 640.6 | 620.3 | 609.4 | 611.0 |
| 50° | 601.8 | 564.6 | 546.9 | 535.1 | 537.6 |
| 52.5° | 517.4 | 483.6 | 466.7 | 460.8 | 459.1 |
| 55° | 428.7 | 402.6 | 390.8 | 384.0 | 381.5 |
| 57.5° | 347.7 | 329.2 | 320.7 | 312.3 | 313.1 |
| 60° | 274.3 | 265.0 | 262.5 | 253.2 | 252.4 |
| 62.5° | 216.1 | 210.2 | 207.6 | 200.9 | 201.7 |
| 65° | 163.7 | 162.0 | 163.7 | 159.5 | 161.2 |
| 66° | 147.7 | 148.5 | 148.5 | 146.0 | 147.7 |
| 67.5° | 127.4 | 129.1 | 131.7 | 129.1 | 130.8 |
| 70° | 105.5 | 107.2 | 108.9 | 108.9 | 108.9 |
| 72.5° | 92.0 | 93.7 | 94.5 | 94.5 | 94.5 |
| 75° | 84.4 | 85.2 | 86.1 | 84.4 | 84.4 |
| 77.5° | 79.3 | 79.3 | 77.6 | 76.8 | 76.0 |
| 80° | 71.7 | 70.9 | 68.4 | 66.7 | 66.7 |
| 82.5° | 59.9 | 58.2 | 56.5 | 54.0 | 54.0 |
| 85° | 45.6 | 43.9 | 42.2 | 38.8 | 37.1 |
| 87.5° | 23.6 | 24.5 | 23.6 | 19.4 | 16.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)