

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: P156761

Luminaire Tested: **TMU-E04-LED-E-U-T4-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156761
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TMU-E04-LED-E-U-T4-7050
Description: TALON MEDIUM LED AREA LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12403.7 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

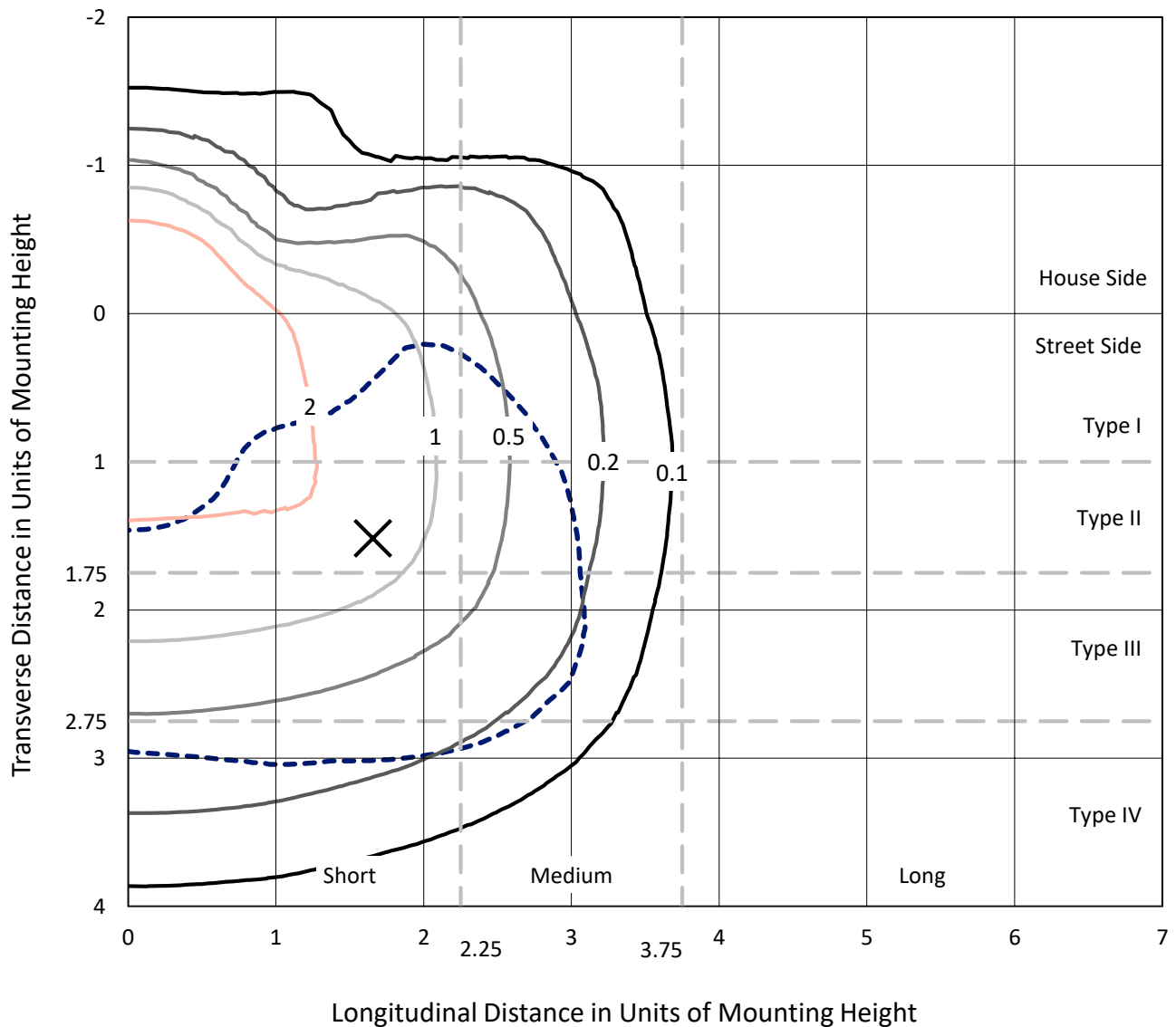
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

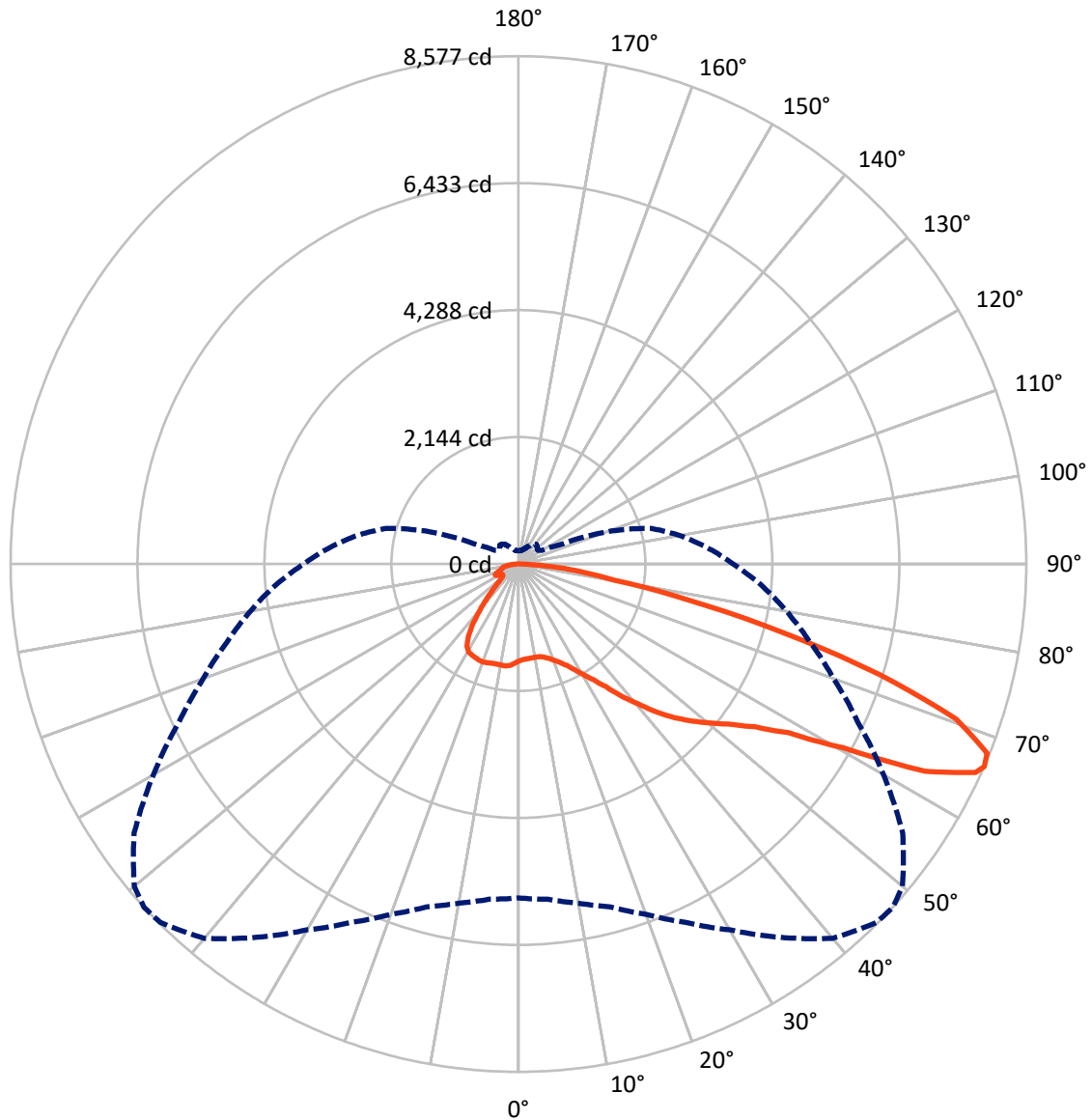
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2646.7 | 0.0 | 2646.7 |
| | % Fixture | 21.3 | 0.0 | 21.3 |
| Street Side | Lumens | 9757.1 | 0.0 | 9757.1 |
| | % Fixture | 78.7 | 0.0 | 78.7 |
| Total | Lumens | 12403.7 | 0.0 | 12403.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 158.8 | 1.3 |
| 10°-20° | 482.0 | 3.9 |
| 20°-30° | 830.3 | 6.7 |
| 30°-40° | 1256.1 | 10.1 |
| 40°-50° | 1628.1 | 13.1 |
| 50°-60° | 2244.7 | 18.1 |
| 60°-70° | 3487.4 | 28.1 |
| 70°-80° | 2028.0 | 16.3 |
| 80°-90° | 288.4 | 2.3 |
| 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° | 12403.7 | 100.0 |
| 0°-180° | 12403.7 | 100.0 |



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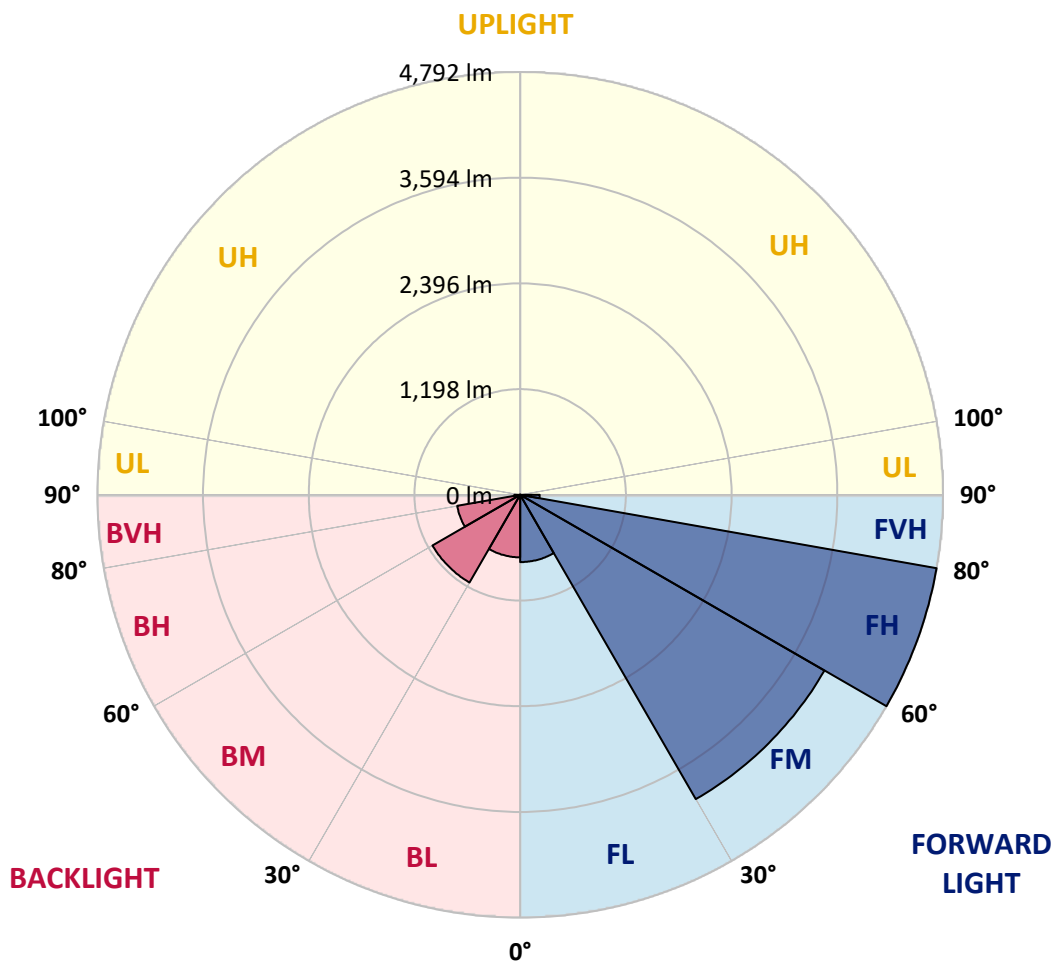
CATALOG NUMBER: TMU-E04-LED-E-U-T4-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 762.6 | 6.1 | | | |
| FM | (30°-60°) | 3981.6 | 32.1 | | | |
| FH | (60°-80°) | 4791.6 | 38.6 | | | G2/5000 |
| FVH | (80°-90°) | 221.3 | 1.8 | | | G2/225 |
| BL | (0°-30°) | 708.4 | 5.7 | B2/1000 | | |
| BM | (30°-60°) | 1147.3 | 9.2 | B2/2500 | | |
| BH | (60°-80°) | 723.9 | 5.8 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 67.1 | 0.5 | | | 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 IV Short





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CATALOG NUMBER: TMU-E04-LED-E-U-T4-7050

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 47.5° | |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 |
| 2.5° | 1604.8 | 1610.3 | 1606.2 | 1607.6 | 1607.6 | 1608.9 | 1608.9 | 1610.3 | 1608.9 | 1613.0 | 1615.8 | 1615.8 |
| 5° | 1576.1 | 1578.8 | 1577.5 | 1580.2 | 1582.9 | 1588.4 | 1587.0 | 1593.9 | 1595.3 | 1599.4 | 1606.2 | 1606.2 |
| 7.5° | 1565.2 | 1562.4 | 1563.8 | 1567.9 | 1570.6 | 1573.4 | 1576.1 | 1581.6 | 1585.7 | 1595.3 | 1600.7 | 1600.7 |
| 10° | 1576.1 | 1574.7 | 1576.1 | 1578.8 | 1578.8 | 1580.2 | 1577.5 | 1582.9 | 1585.7 | 1593.9 | 1599.4 | 1599.4 |
| 12.5° | 1621.2 | 1621.2 | 1618.5 | 1618.5 | 1615.8 | 1613.0 | 1606.2 | 1602.1 | 1600.7 | 1602.1 | 1604.8 | 1604.8 |
| 15° | 1693.8 | 1691.0 | 1685.5 | 1681.4 | 1676.0 | 1666.4 | 1656.8 | 1648.6 | 1643.1 | 1634.9 | 1632.2 | 1632.2 |
| 17.5° | 1764.9 | 1760.8 | 1755.3 | 1749.9 | 1743.0 | 1733.4 | 1718.4 | 1708.8 | 1693.8 | 1684.2 | 1678.7 | 1678.7 |
| 20° | 1847.0 | 1838.8 | 1831.9 | 1825.1 | 1811.4 | 1808.7 | 1793.6 | 1777.2 | 1759.4 | 1737.5 | 1734.8 | 1734.8 |
| 22.5° | 1953.7 | 1940.0 | 1931.8 | 1927.7 | 1914.0 | 1909.9 | 1885.3 | 1862.0 | 1840.1 | 1811.4 | 1804.6 | 1804.6 |
| 25° | 2061.8 | 2048.1 | 2044.0 | 2038.5 | 2029.0 | 2023.5 | 2000.2 | 1974.2 | 1945.5 | 1905.8 | 1897.6 | 1897.6 |
| 27.5° | 2167.1 | 2168.5 | 2157.6 | 2161.7 | 2158.9 | 2149.3 | 2126.1 | 2100.1 | 2078.2 | 2031.7 | 2022.1 | 2022.1 |
| 30° | 2298.5 | 2290.3 | 2284.8 | 2293.0 | 2283.4 | 2284.8 | 2264.3 | 2250.6 | 2215.0 | 2187.7 | 2168.5 | 2168.5 |
| 32.5° | 2435.3 | 2433.9 | 2442.1 | 2447.6 | 2446.2 | 2443.5 | 2427.1 | 2413.4 | 2381.9 | 2342.3 | 2334.0 | 2334.0 |
| 35° | 2622.7 | 2630.9 | 2637.8 | 2662.4 | 2662.4 | 2680.2 | 2663.8 | 2647.4 | 2610.4 | 2562.5 | 2546.1 | 2546.1 |
| 37.5° | 2750.0 | 2752.7 | 2780.1 | 2812.9 | 2853.9 | 2892.2 | 2903.2 | 2907.3 | 2892.2 | 2856.7 | 2832.1 | 2832.1 |
| 40° | 2866.3 | 2871.7 | 2915.5 | 2966.1 | 3026.3 | 3101.6 | 3146.7 | 3167.2 | 3171.3 | 3154.9 | 3101.6 | 3101.6 |
| 42.5° | 2982.5 | 2990.8 | 3035.9 | 3109.8 | 3193.2 | 3289.0 | 3368.4 | 3419.0 | 3447.7 | 3447.7 | 3416.2 | 3416.2 |
| 45° | 3118.0 | 3128.9 | 3178.2 | 3258.9 | 3356.0 | 3476.4 | 3585.9 | 3683.0 | 3729.6 | 3732.3 | 3702.2 | 3702.2 |
| 47.5° | 3278.1 | 3287.6 | 3345.1 | 3427.2 | 3527.1 | 3648.8 | 3787.0 | 3897.8 | 3984.0 | 3989.5 | 3964.9 | 3964.9 |
| 50° | 3484.7 | 3498.3 | 3546.2 | 3620.1 | 3722.7 | 3845.8 | 3984.0 | 4138.6 | 4228.9 | 4250.8 | 4224.8 | 4224.8 |
| 52.5° | 3758.3 | 3761.0 | 3800.7 | 3869.1 | 3969.0 | 4086.6 | 4233.0 | 4401.3 | 4520.3 | 4538.1 | 4495.7 | 4495.7 |
| 55° | 4135.9 | 4131.8 | 4157.8 | 4231.7 | 4306.9 | 4398.6 | 4550.4 | 4739.2 | 4871.9 | 4899.3 | 4855.5 | 4855.5 |
| 57.5° | 4648.9 | 4644.8 | 4666.7 | 4684.5 | 4825.4 | 4914.4 | 5063.5 | 5244.1 | 5372.7 | 5452.0 | 5376.8 | 5376.8 |
| 60° | 5443.8 | 5439.7 | 5475.3 | 5579.3 | 5684.6 | 5814.6 | 5959.6 | 6175.8 | 6356.4 | 6379.6 | 6305.8 | 6305.8 |
| 62.5° | 6019.8 | 6040.3 | 6118.3 | 6240.1 | 6453.5 | 6708.0 | 6973.4 | 7258.0 | 7628.8 | 7746.4 | 7710.8 | 7710.8 |
| 65° | 5818.7 | 5859.7 | 5967.8 | 6152.5 | 6437.1 | 6788.7 | 7204.6 | 7720.4 | 8217.1 | 8494.8 | 8486.6 | 8486.6 |
| 66° | 5638.1 | 5683.3 | 5816.0 | 5993.8 | 6294.8 | 6679.3 | 7133.5 | 7695.8 | 8251.3 | 8557.7 | 8576.9 | 8576.9 |
| 67.5° | 5309.8 | 5360.4 | 5490.3 | 5701.0 | 5993.8 | 6402.9 | 6891.3 | 7502.9 | 8130.9 | 8487.9 | 8538.6 | 8538.6 |
| 70° | 4670.8 | 4728.3 | 4822.7 | 4996.4 | 5285.1 | 5650.4 | 6164.8 | 6712.1 | 7370.2 | 7779.2 | 7840.8 | 7840.8 |
| 72.5° | 3904.7 | 3955.3 | 4060.6 | 4202.9 | 4439.6 | 4669.5 | 5073.1 | 5476.7 | 5947.3 | 6413.8 | 6368.7 | 6368.7 |
| 75° | 2803.3 | 2825.2 | 2888.1 | 3042.7 | 3170.0 | 3376.6 | 3700.8 | 4031.9 | 4353.4 | 4566.9 | 4597.0 | 4597.0 |
| 77.5° | 1457.1 | 1514.5 | 1603.5 | 1774.5 | 1912.7 | 2098.7 | 2309.4 | 2558.4 | 2793.7 | 2989.4 | 2936.0 | 2936.0 |
| 80° | 953.6 | 978.2 | 1057.6 | 1145.1 | 1246.4 | 1365.4 | 1506.3 | 1599.4 | 1629.5 | 1617.1 | 1629.5 | 1629.5 |
| 82.5° | 550.0 | 595.1 | 700.5 | 767.5 | 842.8 | 883.8 | 996.0 | 1102.7 | 1162.9 | 1087.7 | 1060.3 | 1060.3 |
| 85° | 69.8 | 90.3 | 284.6 | 358.5 | 410.4 | 472.0 | 506.2 | 570.5 | 532.2 | 476.1 | 580.1 | 580.1 |
| 87.5° | 15.0 | 13.7 | 19.2 | 41.0 | 42.4 | 35.6 | 67.0 | 71.1 | 43.8 | 21.9 | 27.4 | 27.4 |
| 90° | 0.0 | 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-E04-LED-E-U-T4-7050

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 |
| 2.5° | 1618.5 | 1619.9 | 1622.6 | 1626.7 | 1629.5 | 1632.2 | 1634.9 | 1639.0 | 1641.8 | 1644.5 | 1650.0 |
| 5° | 1611.7 | 1617.1 | 1622.6 | 1628.1 | 1634.9 | 1645.9 | 1652.7 | 1658.2 | 1663.7 | 1674.6 | 1678.7 |
| 7.5° | 1607.6 | 1617.1 | 1625.4 | 1634.9 | 1645.9 | 1655.5 | 1667.8 | 1674.6 | 1682.8 | 1689.7 | 1697.9 |
| 10° | 1604.8 | 1618.5 | 1626.7 | 1640.4 | 1652.7 | 1662.3 | 1676.0 | 1684.2 | 1693.8 | 1702.0 | 1706.1 |
| 12.5° | 1610.3 | 1617.1 | 1625.4 | 1639.0 | 1654.1 | 1667.8 | 1682.8 | 1689.7 | 1697.9 | 1704.7 | 1706.1 |
| 15° | 1633.6 | 1633.6 | 1634.9 | 1645.9 | 1660.9 | 1671.9 | 1684.2 | 1691.0 | 1695.1 | 1699.2 | 1699.2 |
| 17.5° | 1676.0 | 1666.4 | 1659.6 | 1660.9 | 1670.5 | 1677.3 | 1684.2 | 1684.2 | 1681.4 | 1680.1 | 1677.3 |
| 20° | 1725.2 | 1712.9 | 1699.2 | 1689.7 | 1686.9 | 1681.4 | 1677.3 | 1663.7 | 1652.7 | 1643.1 | 1636.3 |
| 22.5° | 1796.4 | 1777.2 | 1758.1 | 1740.3 | 1723.9 | 1703.3 | 1680.1 | 1652.7 | 1626.7 | 1608.9 | 1598.0 |
| 25° | 1883.9 | 1868.9 | 1845.6 | 1818.3 | 1797.7 | 1759.4 | 1729.3 | 1689.7 | 1656.8 | 1633.6 | 1614.4 |
| 27.5° | 2008.4 | 1990.6 | 1968.8 | 1944.1 | 1914.0 | 1871.6 | 1834.7 | 1788.2 | 1748.5 | 1714.3 | 1689.7 |
| 30° | 2163.0 | 2139.8 | 2123.4 | 2093.3 | 2072.7 | 2024.8 | 1987.9 | 1930.4 | 1853.8 | 1799.1 | 1764.9 |
| 32.5° | 2321.7 | 2295.7 | 2282.1 | 2258.8 | 2235.5 | 2206.8 | 2150.7 | 2061.8 | 1963.3 | 1874.4 | 1815.5 |
| 35° | 2533.8 | 2506.4 | 2481.8 | 2461.3 | 2427.1 | 2373.7 | 2324.5 | 2217.8 | 2082.3 | 1957.8 | 1859.3 |
| 37.5° | 2800.6 | 2755.4 | 2693.9 | 2641.9 | 2581.7 | 2505.1 | 2429.8 | 2320.4 | 2165.8 | 2004.3 | 1873.0 |
| 40° | 3085.2 | 3005.8 | 2918.2 | 2821.1 | 2717.1 | 2606.3 | 2520.1 | 2409.3 | 2235.5 | 2044.0 | 1863.4 |
| 42.5° | 3382.0 | 3256.2 | 3134.4 | 2997.6 | 2852.6 | 2721.2 | 2609.0 | 2487.3 | 2287.5 | 2054.9 | 1825.1 |
| 45° | 3676.2 | 3535.3 | 3350.6 | 3171.3 | 2988.0 | 2825.2 | 2699.3 | 2562.5 | 2335.4 | 2059.1 | 1774.5 |
| 47.5° | 3919.7 | 3774.7 | 3564.0 | 3339.6 | 3122.1 | 2937.4 | 2789.6 | 2641.9 | 2399.7 | 2087.8 | 1762.2 |
| 50° | 4176.9 | 4000.4 | 3766.5 | 3501.1 | 3254.8 | 3048.2 | 2890.9 | 2737.6 | 2490.0 | 2161.7 | 1801.8 |
| 52.5° | 4457.4 | 4254.9 | 3981.3 | 3684.4 | 3414.9 | 3183.7 | 3012.6 | 2855.3 | 2604.9 | 2265.6 | 1877.1 |
| 55° | 4799.4 | 4551.8 | 4254.9 | 3919.7 | 3631.0 | 3375.2 | 3186.4 | 3000.3 | 2741.8 | 2388.8 | 1971.5 |
| 57.5° | 5322.1 | 5018.3 | 4684.5 | 4302.8 | 3982.7 | 3680.3 | 3454.6 | 3239.8 | 2953.8 | 2572.1 | 2100.1 |
| 60° | 6267.5 | 5943.2 | 5509.5 | 5047.1 | 4670.8 | 4317.9 | 3986.8 | 3720.0 | 3368.4 | 2933.3 | 2384.7 |
| 62.5° | 7621.9 | 7190.9 | 6612.2 | 5965.1 | 5472.6 | 4963.6 | 4590.1 | 4193.4 | 3756.9 | 3287.6 | 2719.9 |
| 65° | 8374.4 | 7851.8 | 7077.4 | 6326.3 | 5692.8 | 5140.1 | 4665.4 | 4205.7 | 3721.3 | 3272.6 | 2797.8 |
| 66° | 8467.4 | 7922.9 | 7118.4 | 6327.7 | 5662.7 | 5095.0 | 4595.6 | 4119.5 | 3624.2 | 3196.0 | 2765.0 |
| 67.5° | 8429.1 | 7872.3 | 7043.2 | 6208.6 | 5532.8 | 4922.6 | 4406.8 | 3912.9 | 3419.0 | 3019.5 | 2655.6 |
| 70° | 7801.1 | 7273.0 | 6459.0 | 5650.4 | 5008.8 | 4406.8 | 3914.3 | 3428.6 | 2975.7 | 2633.7 | 2365.5 |
| 72.5° | 6478.1 | 6026.7 | 5319.3 | 4684.5 | 4181.0 | 3684.4 | 3267.1 | 2803.3 | 2420.2 | 2167.1 | 2008.4 |
| 75° | 4676.3 | 4402.7 | 3758.3 | 3394.4 | 2952.4 | 2622.7 | 2217.8 | 1942.8 | 1667.8 | 1544.6 | 1517.3 |
| 77.5° | 2953.8 | 2585.8 | 2176.7 | 1792.3 | 1473.5 | 1221.7 | 950.9 | 807.2 | 673.1 | 659.4 | 796.3 |
| 80° | 1495.4 | 1346.3 | 1037.1 | 826.4 | 695.0 | 562.3 | 444.6 | 336.6 | 235.3 | 283.2 | 339.3 |
| 82.5° | 979.6 | 816.8 | 640.3 | 526.7 | 458.3 | 380.3 | 295.5 | 205.2 | 150.5 | 169.6 | 232.6 |
| 85° | 529.5 | 451.5 | 363.9 | 287.3 | 232.6 | 208.0 | 139.6 | 98.5 | 97.1 | 104.0 | 132.7 |
| 87.5° | 38.3 | 38.3 | 30.1 | 27.4 | 32.8 | 27.4 | 24.6 | 24.6 | 23.3 | 24.6 | 32.8 |
| 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-E04-LED-E-U-T4-7050

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 | 1634.9 |
| 2.5° | 1652.7 | 1656.8 | 1658.2 | 1665.0 | 1669.1 | 1671.9 | 1674.6 | 1674.6 | 1676.0 | 1680.1 | 1681.4 |
| 5° | 1684.2 | 1691.0 | 1699.2 | 1704.7 | 1707.4 | 1715.6 | 1718.4 | 1718.4 | 1721.1 | 1726.6 | 1730.7 |
| 7.5° | 1703.3 | 1712.9 | 1721.1 | 1723.9 | 1729.3 | 1732.1 | 1736.2 | 1738.9 | 1738.9 | 1744.4 | 1747.1 |
| 10° | 1710.2 | 1715.6 | 1723.9 | 1723.9 | 1729.3 | 1729.3 | 1733.4 | 1734.8 | 1734.8 | 1740.3 | 1744.4 |
| 12.5° | 1710.2 | 1712.9 | 1719.8 | 1719.8 | 1723.9 | 1725.2 | 1730.7 | 1734.8 | 1736.2 | 1743.0 | 1748.5 |
| 15° | 1702.0 | 1704.7 | 1710.2 | 1711.5 | 1721.1 | 1726.6 | 1738.9 | 1747.1 | 1747.1 | 1754.0 | 1756.7 |
| 17.5° | 1678.7 | 1685.5 | 1696.5 | 1707.4 | 1725.2 | 1737.5 | 1752.6 | 1759.4 | 1754.0 | 1749.9 | 1745.7 |
| 20° | 1640.4 | 1652.7 | 1678.7 | 1706.1 | 1737.5 | 1754.0 | 1762.2 | 1755.3 | 1736.2 | 1717.0 | 1704.7 |
| 22.5° | 1602.1 | 1626.7 | 1670.5 | 1711.5 | 1747.1 | 1758.1 | 1754.0 | 1729.3 | 1697.9 | 1674.6 | 1658.2 |
| 25° | 1619.9 | 1648.6 | 1691.0 | 1728.0 | 1751.2 | 1748.5 | 1732.1 | 1697.9 | 1663.7 | 1633.6 | 1606.2 |
| 27.5° | 1693.8 | 1725.2 | 1748.5 | 1760.8 | 1758.1 | 1738.9 | 1712.9 | 1674.6 | 1633.6 | 1593.9 | 1555.6 |
| 30° | 1763.5 | 1780.0 | 1785.4 | 1775.8 | 1754.0 | 1722.5 | 1689.7 | 1645.9 | 1591.1 | 1541.9 | 1498.1 |
| 32.5° | 1795.0 | 1778.6 | 1752.6 | 1726.6 | 1691.0 | 1663.7 | 1618.5 | 1570.6 | 1502.2 | 1443.4 | 1399.6 |
| 35° | 1795.0 | 1729.3 | 1663.7 | 1608.9 | 1555.6 | 1521.4 | 1469.4 | 1405.1 | 1342.1 | 1292.9 | 1258.7 |
| 37.5° | 1755.3 | 1629.5 | 1521.4 | 1432.4 | 1365.4 | 1328.5 | 1250.5 | 1193.0 | 1139.7 | 1123.2 | 1101.4 |
| 40° | 1682.8 | 1496.7 | 1340.8 | 1224.5 | 1139.7 | 1084.9 | 1007.0 | 967.3 | 946.8 | 938.5 | 934.4 |
| 42.5° | 1585.7 | 1349.0 | 1141.0 | 997.4 | 905.7 | 844.1 | 792.2 | 767.5 | 766.2 | 764.8 | 764.8 |
| 45° | 1481.7 | 1190.3 | 946.8 | 775.7 | 695.0 | 640.3 | 615.7 | 606.1 | 614.3 | 612.9 | 614.3 |
| 47.5° | 1417.4 | 1069.9 | 768.9 | 586.9 | 525.4 | 489.8 | 477.5 | 481.6 | 488.4 | 485.7 | 485.7 |
| 50° | 1409.2 | 1008.3 | 649.9 | 457.0 | 410.4 | 392.7 | 389.9 | 389.9 | 394.0 | 391.3 | 389.9 |
| 52.5° | 1439.3 | 998.7 | 588.3 | 392.7 | 355.7 | 340.7 | 337.9 | 336.6 | 335.2 | 327.0 | 320.1 |
| 55° | 1491.3 | 1020.6 | 570.5 | 376.2 | 337.9 | 321.5 | 317.4 | 314.7 | 309.2 | 298.3 | 285.9 |
| 57.5° | 1595.3 | 1089.0 | 586.9 | 384.4 | 343.4 | 329.7 | 325.6 | 325.6 | 314.7 | 296.9 | 279.1 |
| 60° | 1845.6 | 1262.8 | 654.0 | 415.9 | 369.4 | 355.7 | 358.5 | 357.1 | 340.7 | 314.7 | 287.3 |
| 62.5° | 2168.5 | 1489.9 | 741.5 | 459.7 | 402.2 | 399.5 | 413.2 | 410.4 | 383.1 | 343.4 | 303.7 |
| 65° | 2317.6 | 1596.6 | 766.2 | 469.3 | 409.1 | 421.4 | 448.8 | 446.0 | 411.8 | 357.1 | 306.5 |
| 66° | 2320.4 | 1596.6 | 755.2 | 461.1 | 399.5 | 414.5 | 441.9 | 440.5 | 406.3 | 351.6 | 301.0 |
| 67.5° | 2264.3 | 1552.8 | 723.7 | 444.6 | 380.3 | 391.3 | 415.9 | 414.5 | 383.1 | 337.9 | 290.0 |
| 70° | 2053.6 | 1390.0 | 643.0 | 415.9 | 354.3 | 348.9 | 357.1 | 351.6 | 331.1 | 299.6 | 266.8 |
| 72.5° | 1759.4 | 1167.0 | 560.9 | 394.0 | 336.6 | 314.7 | 309.2 | 305.1 | 288.7 | 270.9 | 250.4 |
| 75° | 1385.9 | 923.5 | 492.5 | 377.6 | 320.1 | 291.4 | 281.8 | 276.4 | 265.4 | 253.1 | 236.7 |
| 77.5° | 855.1 | 660.8 | 429.6 | 355.7 | 307.8 | 279.1 | 272.3 | 264.1 | 247.6 | 232.6 | 220.3 |
| 80° | 381.7 | 409.1 | 353.0 | 310.6 | 275.0 | 249.0 | 238.1 | 225.7 | 209.3 | 199.7 | 192.9 |
| 82.5° | 254.5 | 264.1 | 255.8 | 232.6 | 208.0 | 187.4 | 171.0 | 171.0 | 168.3 | 160.1 | 157.3 |
| 85° | 162.8 | 164.2 | 158.7 | 143.7 | 134.1 | 121.8 | 114.9 | 116.3 | 121.8 | 120.4 | 119.0 |
| 87.5° | 36.9 | 36.9 | 43.8 | 41.0 | 47.9 | 50.6 | 54.7 | 58.8 | 67.0 | 67.0 | 71.1 |
| 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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| 55° | 272.3 | 261.3 | 255.8 | 253.1 | 250.4 |
| 57.5° | 262.7 | 251.7 | 243.5 | 238.1 | 236.7 |
| 60° | 265.4 | 249.0 | 238.1 | 231.2 | 229.8 |
| 62.5° | 272.3 | 250.4 | 235.3 | 228.5 | 227.1 |
| 65° | 270.9 | 247.6 | 234.0 | 225.7 | 224.4 |
| 66° | 266.8 | 244.9 | 231.2 | 224.4 | 223.0 |
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| 70° | 247.6 | 235.3 | 225.7 | 218.9 | 216.2 |
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