

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: P156769

Luminaire Tested: **TMU-E05-LED-E-U-T4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156769
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-E05-LED-E-U-T4-7030
Description: TALON MEDIUM LED AREA LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13800.9 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

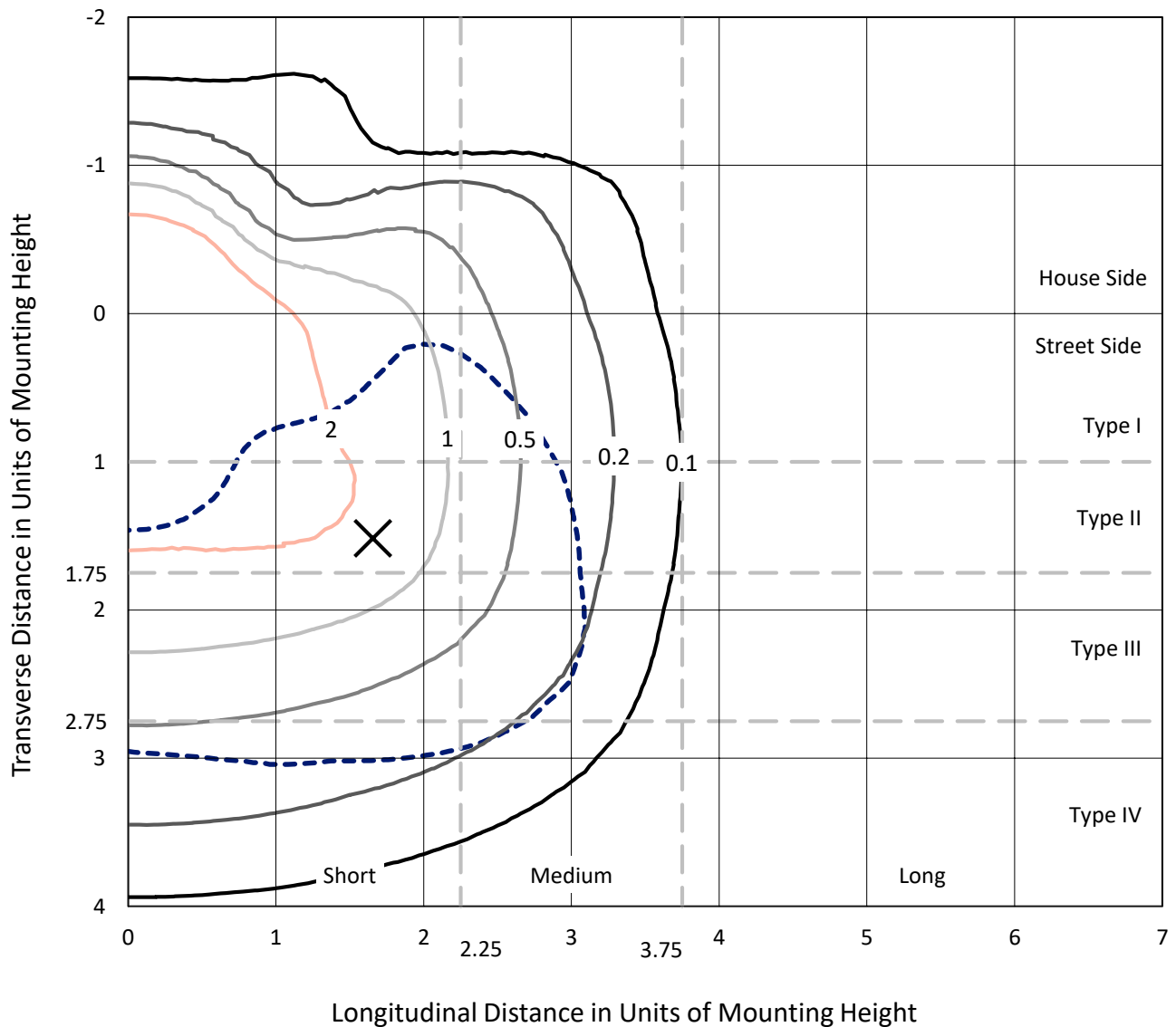
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

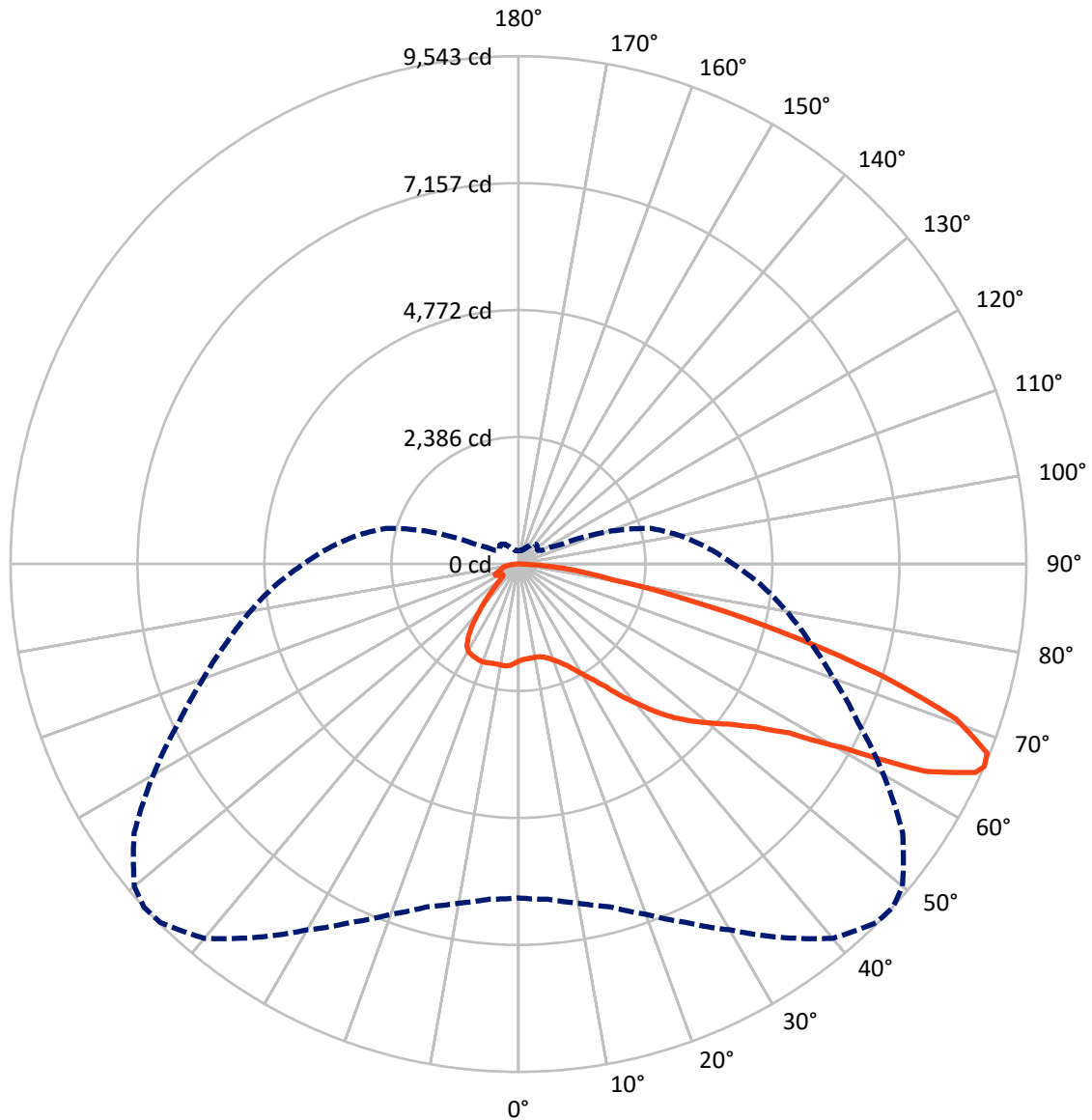
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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 | 2944.8 | 0.0 | 2944.8 |
| | % Fixture | 21.3 | 0.0 | 21.3 |
| Street Side | Lumens | 10856.1 | 0.0 | 10856.1 |
| | % Fixture | 78.7 | 0.0 | 78.7 |
| Total | Lumens | 13800.9 | 0.0 | 13800.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 176.6 | 1.3 |
| 10°-20° | 536.3 | 3.9 |
| 20°-30° | 923.8 | 6.7 |
| 30°-40° | 1397.6 | 10.1 |
| 40°-50° | 1811.5 | 13.1 |
| 50°-60° | 2497.5 | 18.1 |
| 60°-70° | 3880.3 | 28.1 |
| 70°-80° | 2256.4 | 16.3 |
| 80°-90° | 320.9 | 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° | 13800.9 | 100.0 |
| 0°-180° | 13800.9 | 100.0 |

Coefficient of Utilization



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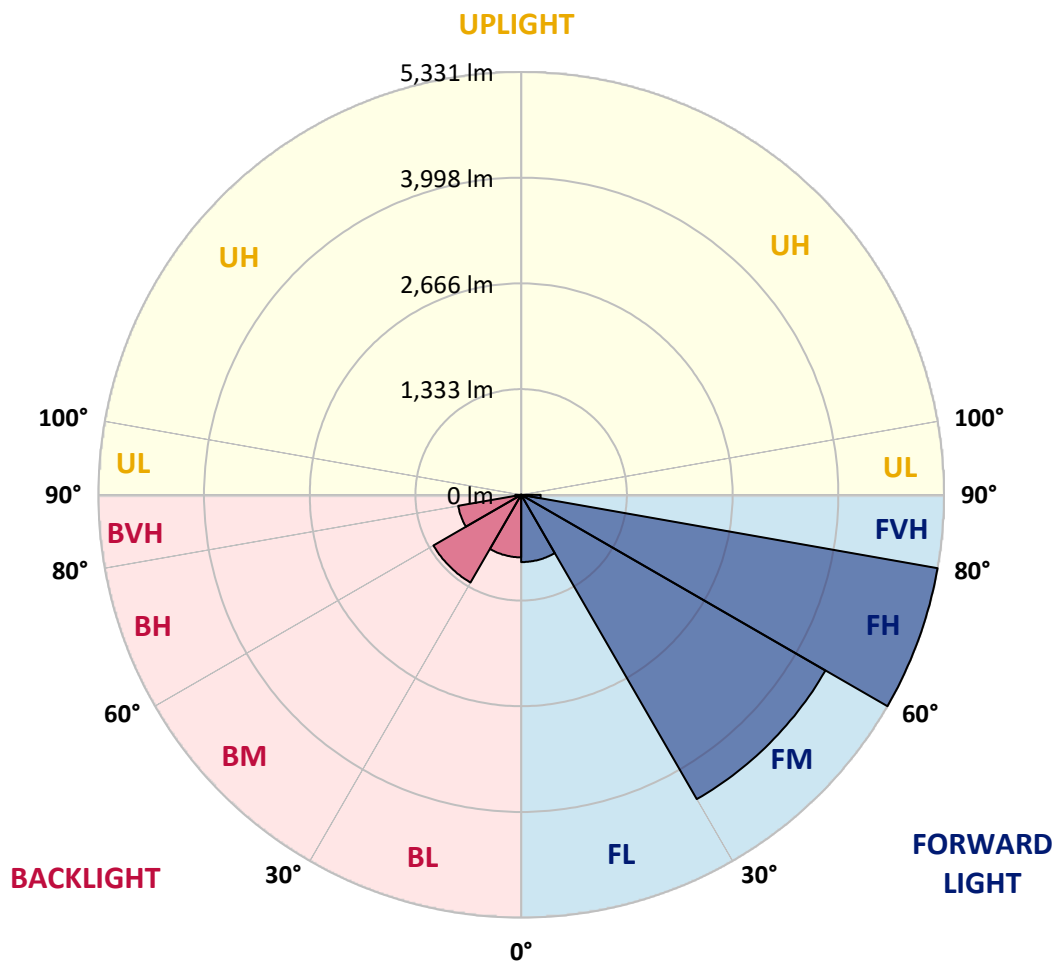
CATALOG NUMBER: TMU-E05-LED-E-U-T4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 848.5 | 6.1 | | | |
| FM | (30°-60°) | 4430.1 | 32.1 | | | |
| FH | (60°-80°) | 5331.3 | 38.6 | | | G3/7500 |
| FVH | (80°-90°) | 246.2 | 1.8 | | | G3/500 |
| BL | (0°-30°) | 788.2 | 5.7 | B2/1000 | | |
| BM | (30°-60°) | 1276.5 | 9.2 | B2/2500 | | |
| BH | (60°-80°) | 805.4 | 5.8 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 74.6 | 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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 47.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1819.1 | 1819.1 | 1819.1 | 1819.1 | 1819.1 | 1819.1 | 1819.1 | 1819.1 | 1819.1 | 1819.1 | 1819.1 |
| 2.5° | 1785.6 | 1791.7 | 1787.1 | 1788.6 | 1788.6 | 1790.2 | 1790.2 | 1791.7 | 1790.2 | 1794.7 | 1797.8 |
| 5° | 1753.6 | 1756.7 | 1755.2 | 1758.2 | 1761.2 | 1767.3 | 1765.8 | 1773.4 | 1774.9 | 1779.5 | 1787.1 |
| 7.5° | 1741.5 | 1738.4 | 1739.9 | 1744.5 | 1747.5 | 1750.6 | 1753.6 | 1759.7 | 1764.3 | 1774.9 | 1781.0 |
| 10° | 1753.6 | 1752.1 | 1753.6 | 1756.7 | 1756.7 | 1758.2 | 1755.2 | 1761.2 | 1764.3 | 1773.4 | 1779.5 |
| 12.5° | 1803.9 | 1803.9 | 1800.8 | 1800.8 | 1797.8 | 1794.7 | 1787.1 | 1782.6 | 1781.0 | 1782.6 | 1785.6 |
| 15° | 1884.5 | 1881.5 | 1875.4 | 1870.8 | 1864.8 | 1854.1 | 1843.4 | 1834.3 | 1828.2 | 1819.1 | 1816.0 |
| 17.5° | 1963.7 | 1959.1 | 1953.0 | 1947.0 | 1939.3 | 1928.7 | 1911.9 | 1901.3 | 1884.5 | 1873.9 | 1867.8 |
| 20° | 2055.0 | 2045.9 | 2038.3 | 2030.7 | 2015.5 | 2012.4 | 1995.7 | 1977.4 | 1957.6 | 1933.3 | 1930.2 |
| 22.5° | 2173.8 | 2158.6 | 2149.4 | 2144.9 | 2129.6 | 2125.1 | 2097.7 | 2071.8 | 2047.4 | 2015.5 | 2007.8 |
| 25° | 2294.0 | 2278.8 | 2274.2 | 2268.2 | 2257.5 | 2251.4 | 2225.5 | 2196.6 | 2164.6 | 2120.5 | 2111.4 |
| 27.5° | 2411.2 | 2412.8 | 2400.6 | 2405.2 | 2402.1 | 2391.5 | 2365.6 | 2336.7 | 2312.3 | 2260.5 | 2249.9 |
| 30° | 2557.4 | 2548.2 | 2542.2 | 2551.3 | 2540.6 | 2542.2 | 2519.3 | 2504.1 | 2464.5 | 2434.1 | 2412.8 |
| 32.5° | 2709.6 | 2708.1 | 2717.2 | 2723.3 | 2721.8 | 2718.7 | 2700.5 | 2685.2 | 2650.2 | 2606.1 | 2597.0 |
| 35° | 2918.2 | 2927.3 | 2934.9 | 2962.3 | 2962.3 | 2982.1 | 2963.8 | 2945.6 | 2904.5 | 2851.2 | 2832.9 |
| 37.5° | 3059.7 | 3062.8 | 3093.2 | 3129.7 | 3175.4 | 3218.0 | 3230.2 | 3234.8 | 3218.0 | 3178.5 | 3151.1 |
| 40° | 3189.1 | 3195.2 | 3243.9 | 3300.2 | 3367.2 | 3450.9 | 3501.2 | 3524.0 | 3528.6 | 3510.3 | 3450.9 |
| 42.5° | 3318.5 | 3327.6 | 3377.9 | 3460.1 | 3552.9 | 3659.5 | 3747.8 | 3804.1 | 3836.1 | 3836.1 | 3801.1 |
| 45° | 3469.2 | 3481.4 | 3536.2 | 3626.0 | 3734.1 | 3868.0 | 3989.8 | 4097.9 | 4149.7 | 4152.7 | 4119.2 |
| 47.5° | 3647.3 | 3658.0 | 3721.9 | 3813.2 | 3924.4 | 4059.8 | 4213.6 | 4336.9 | 4432.8 | 4438.9 | 4411.5 |
| 50° | 3877.2 | 3892.4 | 3945.7 | 4027.9 | 4142.0 | 4279.0 | 4432.8 | 4604.8 | 4705.3 | 4729.6 | 4700.7 |
| 52.5° | 4181.6 | 4184.7 | 4228.8 | 4304.9 | 4416.0 | 4547.0 | 4709.8 | 4897.1 | 5029.5 | 5049.3 | 5002.1 |
| 55° | 4601.8 | 4597.2 | 4626.1 | 4708.3 | 4792.0 | 4894.0 | 5063.0 | 5273.1 | 5420.7 | 5451.2 | 5402.5 |
| 57.5° | 5172.6 | 5168.0 | 5192.4 | 5212.2 | 5369.0 | 5467.9 | 5633.8 | 5834.8 | 5977.9 | 6066.2 | 5982.4 |
| 60° | 6057.0 | 6052.5 | 6092.0 | 6207.7 | 6325.0 | 6469.6 | 6630.9 | 6871.4 | 7072.4 | 7098.3 | 7016.1 |
| 62.5° | 6697.9 | 6720.7 | 6807.5 | 6943.0 | 7180.5 | 7463.6 | 7758.9 | 8075.5 | 8488.1 | 8619.0 | 8579.4 |
| 65° | 6474.1 | 6519.8 | 6640.1 | 6845.6 | 7162.2 | 7553.4 | 8016.2 | 8590.1 | 9142.6 | 9451.7 | 9442.5 |
| 66° | 6273.2 | 6323.4 | 6471.1 | 6669.0 | 7003.9 | 7431.6 | 7937.0 | 8562.7 | 9180.7 | 9521.7 | 9543.0 |
| 67.5° | 5907.9 | 5964.2 | 6108.8 | 6343.2 | 6669.0 | 7124.1 | 7667.6 | 8348.0 | 9046.7 | 9444.0 | 9500.4 |
| 70° | 5197.0 | 5260.9 | 5365.9 | 5559.3 | 5880.5 | 6286.9 | 6859.3 | 7468.2 | 8200.4 | 8655.5 | 8724.0 |
| 72.5° | 4344.5 | 4400.8 | 4518.0 | 4676.4 | 4939.7 | 5195.4 | 5644.5 | 6093.6 | 6617.2 | 7136.3 | 7086.1 |
| 75° | 3119.1 | 3143.4 | 3213.5 | 3385.5 | 3527.1 | 3756.9 | 4117.7 | 4486.1 | 4843.8 | 5081.3 | 5114.8 |
| 77.5° | 1621.2 | 1685.1 | 1784.1 | 1974.4 | 2128.1 | 2335.1 | 2569.6 | 2846.6 | 3108.4 | 3326.1 | 3266.7 |
| 80° | 1061.0 | 1088.4 | 1176.7 | 1274.1 | 1386.8 | 1519.2 | 1676.0 | 1779.5 | 1813.0 | 1799.3 | 1813.0 |
| 82.5° | 611.9 | 662.2 | 779.4 | 854.0 | 937.7 | 983.4 | 1108.2 | 1226.9 | 1293.9 | 1210.2 | 1179.7 |
| 85° | 77.6 | 100.5 | 316.6 | 398.8 | 456.7 | 525.2 | 563.2 | 634.8 | 592.2 | 529.7 | 645.4 |
| 87.5° | 16.7 | 15.2 | 21.3 | 45.7 | 47.2 | 39.6 | 74.6 | 79.2 | 48.7 | 24.4 | 30.4 |
| 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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CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1819.1 | 1819.1 | 1819.1 | 1819.1 | 1819.1 | 1819.1 | 1819.1 | 1819.1 | 1819.1 | 1819.1 | 1819.1 |
| 2.5° | 1800.8 | 1802.3 | 1805.4 | 1810.0 | 1813.0 | 1816.0 | 1819.1 | 1823.7 | 1826.7 | 1829.7 | 1835.8 |
| 5° | 1793.2 | 1799.3 | 1805.4 | 1811.5 | 1819.1 | 1831.3 | 1838.9 | 1845.0 | 1851.1 | 1863.2 | 1867.8 |
| 7.5° | 1788.6 | 1799.3 | 1808.4 | 1819.1 | 1831.3 | 1841.9 | 1855.6 | 1863.2 | 1872.4 | 1880.0 | 1889.1 |
| 10° | 1785.6 | 1800.8 | 1810.0 | 1825.2 | 1838.9 | 1849.5 | 1864.8 | 1873.9 | 1884.5 | 1893.7 | 1898.2 |
| 12.5° | 1791.7 | 1799.3 | 1808.4 | 1823.7 | 1840.4 | 1855.6 | 1872.4 | 1880.0 | 1889.1 | 1896.7 | 1898.2 |
| 15° | 1817.6 | 1817.6 | 1819.1 | 1831.3 | 1848.0 | 1860.2 | 1873.9 | 1881.5 | 1886.1 | 1890.6 | 1890.6 |
| 17.5° | 1864.8 | 1854.1 | 1846.5 | 1848.0 | 1858.7 | 1866.3 | 1873.9 | 1873.9 | 1870.8 | 1869.3 | 1866.3 |
| 20° | 1919.6 | 1905.9 | 1890.6 | 1880.0 | 1876.9 | 1870.8 | 1866.3 | 1851.1 | 1838.9 | 1828.2 | 1820.6 |
| 22.5° | 1998.7 | 1977.4 | 1956.1 | 1936.3 | 1918.0 | 1895.2 | 1869.3 | 1838.9 | 1810.0 | 1790.2 | 1778.0 |
| 25° | 2096.1 | 2079.4 | 2053.5 | 2023.1 | 2000.2 | 1957.6 | 1924.1 | 1880.0 | 1843.4 | 1817.6 | 1796.3 |
| 27.5° | 2234.7 | 2214.9 | 2190.5 | 2163.1 | 2129.6 | 2082.4 | 2041.3 | 1989.6 | 1945.4 | 1907.4 | 1880.0 |
| 30° | 2406.7 | 2380.8 | 2362.5 | 2329.0 | 2306.2 | 2252.9 | 2211.8 | 2147.9 | 2062.6 | 2001.8 | 1963.7 |
| 32.5° | 2583.3 | 2554.3 | 2539.1 | 2513.2 | 2487.4 | 2455.4 | 2393.0 | 2294.0 | 2184.4 | 2085.5 | 2020.0 |
| 35° | 2819.2 | 2788.8 | 2761.4 | 2738.5 | 2700.5 | 2641.1 | 2586.3 | 2467.6 | 2316.9 | 2178.3 | 2068.7 |
| 37.5° | 3116.0 | 3065.8 | 2997.3 | 2939.5 | 2872.5 | 2787.2 | 2703.5 | 2581.7 | 2409.7 | 2230.1 | 2084.0 |
| 40° | 3432.7 | 3344.4 | 3247.0 | 3138.9 | 3023.2 | 2899.9 | 2804.0 | 2680.7 | 2487.4 | 2274.2 | 2073.3 |
| 42.5° | 3763.0 | 3623.0 | 3487.5 | 3335.3 | 3173.9 | 3027.8 | 2902.9 | 2767.5 | 2545.2 | 2286.4 | 2030.7 |
| 45° | 4090.3 | 3933.5 | 3728.0 | 3528.6 | 3324.6 | 3143.4 | 3003.4 | 2851.2 | 2598.5 | 2291.0 | 1974.4 |
| 47.5° | 4361.2 | 4199.9 | 3965.5 | 3715.8 | 3473.8 | 3268.3 | 3103.9 | 2939.5 | 2670.0 | 2323.0 | 1960.7 |
| 50° | 4647.4 | 4451.1 | 4190.8 | 3895.4 | 3621.4 | 3391.6 | 3216.5 | 3046.0 | 2770.5 | 2405.2 | 2004.8 |
| 52.5° | 4959.5 | 4734.2 | 4429.7 | 4099.4 | 3799.5 | 3542.3 | 3352.0 | 3176.9 | 2898.4 | 2520.8 | 2088.5 |
| 55° | 5340.1 | 5064.5 | 4734.2 | 4361.2 | 4040.1 | 3755.4 | 3545.3 | 3338.3 | 3050.6 | 2657.8 | 2193.6 |
| 57.5° | 5921.6 | 5583.6 | 5212.2 | 4787.5 | 4431.3 | 4094.9 | 3843.7 | 3604.7 | 3286.5 | 2861.8 | 2336.7 |
| 60° | 6973.4 | 6612.7 | 6130.1 | 5615.6 | 5197.0 | 4804.2 | 4435.8 | 4139.0 | 3747.8 | 3263.7 | 2653.3 |
| 62.5° | 8480.5 | 8000.9 | 7357.0 | 6637.0 | 6089.0 | 5522.7 | 5107.2 | 4665.7 | 4180.1 | 3658.0 | 3026.2 |
| 65° | 9317.7 | 8736.2 | 7874.6 | 7038.9 | 6334.1 | 5719.1 | 5190.9 | 4679.4 | 4140.5 | 3641.2 | 3113.0 |
| 66° | 9421.2 | 8815.4 | 7920.3 | 7040.4 | 6300.6 | 5668.9 | 5113.2 | 4583.5 | 4032.4 | 3556.0 | 3076.5 |
| 67.5° | 9378.6 | 8759.0 | 7836.5 | 6908.0 | 6156.0 | 5477.1 | 4903.2 | 4353.6 | 3804.1 | 3359.6 | 2954.7 |
| 70° | 8679.9 | 8092.3 | 7186.5 | 6286.9 | 5573.0 | 4903.2 | 4355.2 | 3814.8 | 3310.9 | 2930.3 | 2632.0 |
| 72.5° | 7207.9 | 6705.5 | 5918.5 | 5212.2 | 4652.0 | 4099.4 | 3635.1 | 3119.1 | 2692.9 | 2411.2 | 2234.7 |
| 75° | 5203.1 | 4898.6 | 4181.6 | 3776.7 | 3285.0 | 2918.2 | 2467.6 | 2161.6 | 1855.6 | 1718.6 | 1688.2 |
| 77.5° | 3286.5 | 2877.1 | 2421.9 | 1994.1 | 1639.5 | 1359.4 | 1058.0 | 898.1 | 748.9 | 733.7 | 885.9 |
| 80° | 1663.8 | 1497.9 | 1153.9 | 919.4 | 773.3 | 625.6 | 494.7 | 374.5 | 261.8 | 315.1 | 377.5 |
| 82.5° | 1089.9 | 908.8 | 712.4 | 586.1 | 510.0 | 423.2 | 328.8 | 228.3 | 167.4 | 188.8 | 258.8 |
| 85° | 589.1 | 502.3 | 404.9 | 319.7 | 258.8 | 231.4 | 155.3 | 109.6 | 108.1 | 115.7 | 147.7 |
| 87.5° | 42.6 | 42.6 | 33.5 | 30.4 | 36.5 | 30.4 | 27.4 | 27.4 | 25.9 | 27.4 | 36.5 |
| 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):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1819.1 | 1819.1 | 1819.1 | 1819.1 | 1819.1 | 1819.1 | 1819.1 | 1819.1 | 1819.1 | 1819.1 | 1819.1 |
| 2.5° | 1838.9 | 1843.4 | 1845.0 | 1852.6 | 1857.1 | 1860.2 | 1863.2 | 1863.2 | 1864.8 | 1869.3 | 1870.8 |
| 5° | 1873.9 | 1881.5 | 1890.6 | 1896.7 | 1899.8 | 1908.9 | 1911.9 | 1911.9 | 1915.0 | 1921.1 | 1925.6 |
| 7.5° | 1895.2 | 1905.9 | 1915.0 | 1918.0 | 1924.1 | 1927.2 | 1931.7 | 1934.8 | 1934.8 | 1940.9 | 1943.9 |
| 10° | 1902.8 | 1908.9 | 1918.0 | 1918.0 | 1924.1 | 1924.1 | 1928.7 | 1930.2 | 1930.2 | 1936.3 | 1940.9 |
| 12.5° | 1902.8 | 1905.9 | 1913.5 | 1913.5 | 1918.0 | 1919.6 | 1925.6 | 1930.2 | 1931.7 | 1939.3 | 1945.4 |
| 15° | 1893.7 | 1896.7 | 1902.8 | 1904.3 | 1915.0 | 1921.1 | 1934.8 | 1943.9 | 1943.9 | 1951.5 | 1954.6 |
| 17.5° | 1867.8 | 1875.4 | 1887.6 | 1899.8 | 1919.6 | 1933.3 | 1950.0 | 1957.6 | 1951.5 | 1947.0 | 1942.4 |
| 20° | 1825.2 | 1838.9 | 1867.8 | 1898.2 | 1933.3 | 1951.5 | 1960.7 | 1953.0 | 1931.7 | 1910.4 | 1896.7 |
| 22.5° | 1782.6 | 1810.0 | 1858.7 | 1904.3 | 1943.9 | 1956.1 | 1951.5 | 1924.1 | 1889.1 | 1863.2 | 1845.0 |
| 25° | 1802.3 | 1834.3 | 1881.5 | 1922.6 | 1948.5 | 1945.4 | 1927.2 | 1889.1 | 1851.1 | 1817.6 | 1787.1 |
| 27.5° | 1884.5 | 1919.6 | 1945.4 | 1959.1 | 1956.1 | 1934.8 | 1905.9 | 1863.2 | 1817.6 | 1773.4 | 1730.8 |
| 30° | 1962.2 | 1980.4 | 1986.5 | 1975.9 | 1951.5 | 1916.5 | 1880.0 | 1831.3 | 1770.4 | 1715.6 | 1666.9 |
| 32.5° | 1997.2 | 1978.9 | 1950.0 | 1921.1 | 1881.5 | 1851.1 | 1800.8 | 1747.5 | 1671.4 | 1606.0 | 1557.3 |
| 35° | 1997.2 | 1924.1 | 1851.1 | 1790.2 | 1730.8 | 1692.7 | 1634.9 | 1563.4 | 1493.3 | 1438.5 | 1400.5 |
| 37.5° | 1953.0 | 1813.0 | 1692.7 | 1593.8 | 1519.2 | 1478.1 | 1391.3 | 1327.4 | 1268.0 | 1249.8 | 1225.4 |
| 40° | 1872.4 | 1665.3 | 1491.8 | 1362.4 | 1268.0 | 1207.1 | 1120.4 | 1076.2 | 1053.4 | 1044.3 | 1039.7 |
| 42.5° | 1764.3 | 1500.9 | 1269.6 | 1109.7 | 1007.7 | 939.2 | 881.4 | 854.0 | 852.5 | 850.9 | 850.9 |
| 45° | 1648.6 | 1324.4 | 1053.4 | 863.1 | 773.3 | 712.4 | 685.0 | 674.4 | 683.5 | 682.0 | 683.5 |
| 47.5° | 1577.1 | 1190.4 | 855.5 | 653.0 | 584.5 | 545.0 | 531.3 | 535.8 | 543.4 | 540.4 | 540.4 |
| 50° | 1567.9 | 1121.9 | 723.1 | 508.4 | 456.7 | 436.9 | 433.8 | 433.8 | 438.4 | 435.4 | 433.8 |
| 52.5° | 1601.4 | 1111.2 | 654.6 | 436.9 | 395.8 | 379.0 | 376.0 | 374.5 | 373.0 | 363.8 | 356.2 |
| 55° | 1659.3 | 1135.6 | 634.8 | 418.6 | 376.0 | 357.7 | 353.2 | 350.1 | 344.0 | 331.9 | 318.2 |
| 57.5° | 1774.9 | 1211.7 | 653.0 | 427.8 | 382.1 | 366.9 | 362.3 | 362.3 | 350.1 | 330.3 | 310.5 |
| 60° | 2053.5 | 1405.0 | 727.6 | 462.8 | 411.0 | 395.8 | 398.8 | 397.3 | 379.0 | 350.1 | 319.7 |
| 62.5° | 2412.8 | 1657.7 | 825.1 | 511.5 | 447.5 | 444.5 | 459.7 | 456.7 | 426.2 | 382.1 | 337.9 |
| 65° | 2578.7 | 1776.5 | 852.5 | 522.1 | 455.2 | 468.9 | 499.3 | 496.3 | 458.2 | 397.3 | 341.0 |
| 66° | 2581.7 | 1776.5 | 840.3 | 513.0 | 444.5 | 461.2 | 491.7 | 490.2 | 452.1 | 391.2 | 334.9 |
| 67.5° | 2519.3 | 1727.8 | 805.3 | 494.7 | 423.2 | 435.4 | 462.8 | 461.2 | 426.2 | 376.0 | 322.7 |
| 70° | 2284.9 | 1546.6 | 715.5 | 462.8 | 394.3 | 388.2 | 397.3 | 391.2 | 368.4 | 333.4 | 296.8 |
| 72.5° | 1957.6 | 1298.5 | 624.1 | 438.4 | 374.5 | 350.1 | 344.0 | 339.5 | 321.2 | 301.4 | 278.6 |
| 75° | 1542.0 | 1027.5 | 548.0 | 420.1 | 356.2 | 324.2 | 313.6 | 307.5 | 295.3 | 281.6 | 263.3 |
| 77.5° | 951.4 | 735.2 | 478.0 | 395.8 | 342.5 | 310.5 | 302.9 | 293.8 | 275.5 | 258.8 | 245.1 |
| 80° | 424.7 | 455.2 | 392.7 | 345.6 | 306.0 | 277.0 | 264.9 | 251.2 | 232.9 | 222.2 | 214.6 |
| 82.5° | 283.1 | 293.8 | 284.7 | 258.8 | 231.4 | 208.5 | 190.3 | 190.3 | 187.2 | 178.1 | 175.1 |
| 85° | 181.1 | 182.7 | 176.6 | 159.8 | 149.2 | 135.5 | 127.9 | 129.4 | 135.5 | 134.0 | 132.4 |
| 87.5° | 41.1 | 41.1 | 48.7 | 45.7 | 53.3 | 56.3 | 60.9 | 65.5 | 74.6 | 74.6 | 79.2 |
| 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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| 62.5° | 302.9 | 278.6 | 261.8 | 254.2 | 252.7 |
| 65° | 301.4 | 275.5 | 260.3 | 251.2 | 249.6 |
| 66° | 296.8 | 272.5 | 257.3 | 249.6 | 248.1 |
| 67.5° | 289.2 | 267.9 | 254.2 | 248.1 | 245.1 |
| 70° | 275.5 | 261.8 | 251.2 | 243.6 | 240.5 |
| 72.5° | 263.3 | 252.7 | 243.6 | 235.9 | 234.4 |
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