

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: P317471

Luminaire Tested: **GAN-SA7A-750-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-750-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34341 lumens
Efficiency: N/A
Efficacy: 152.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

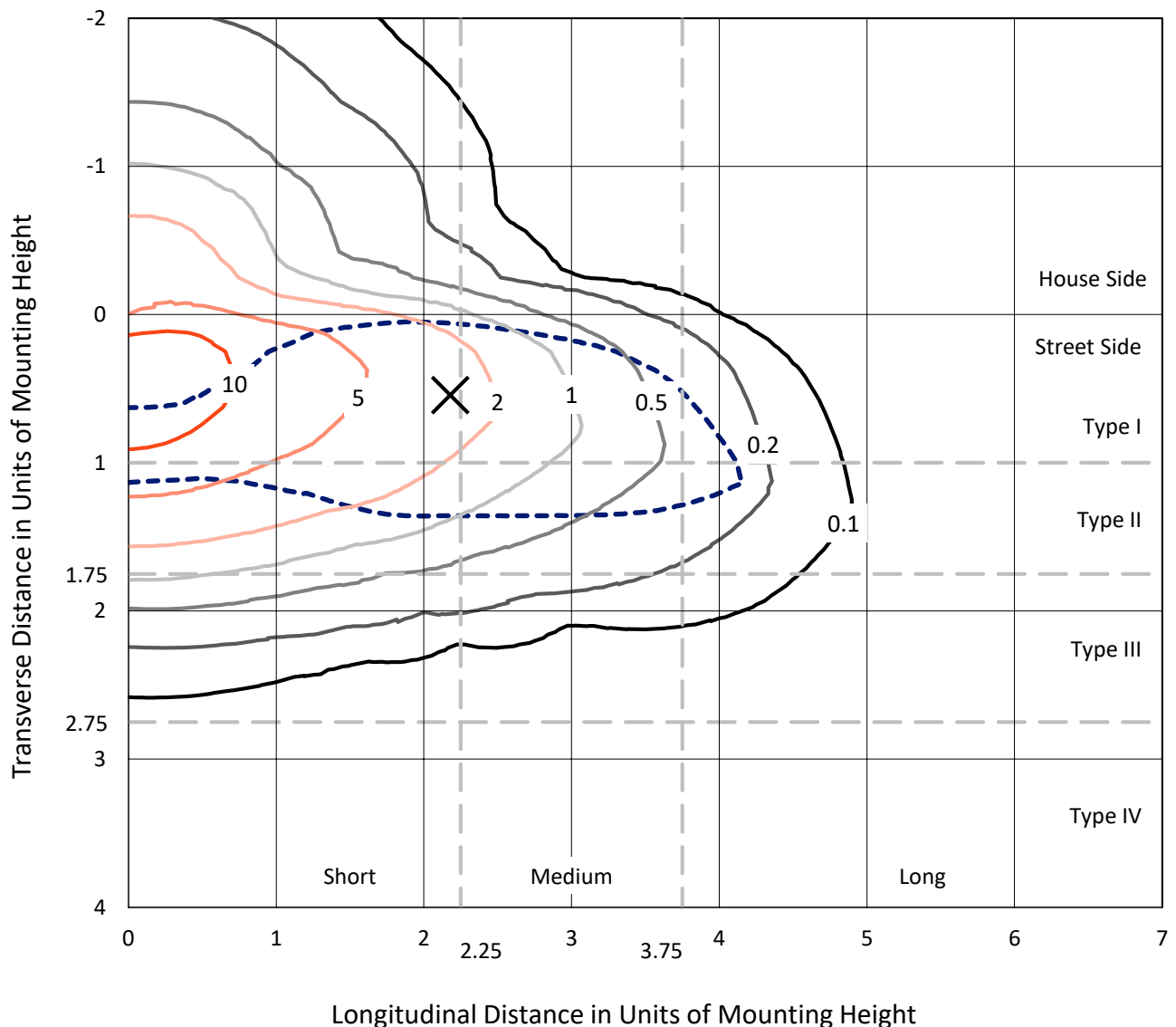
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

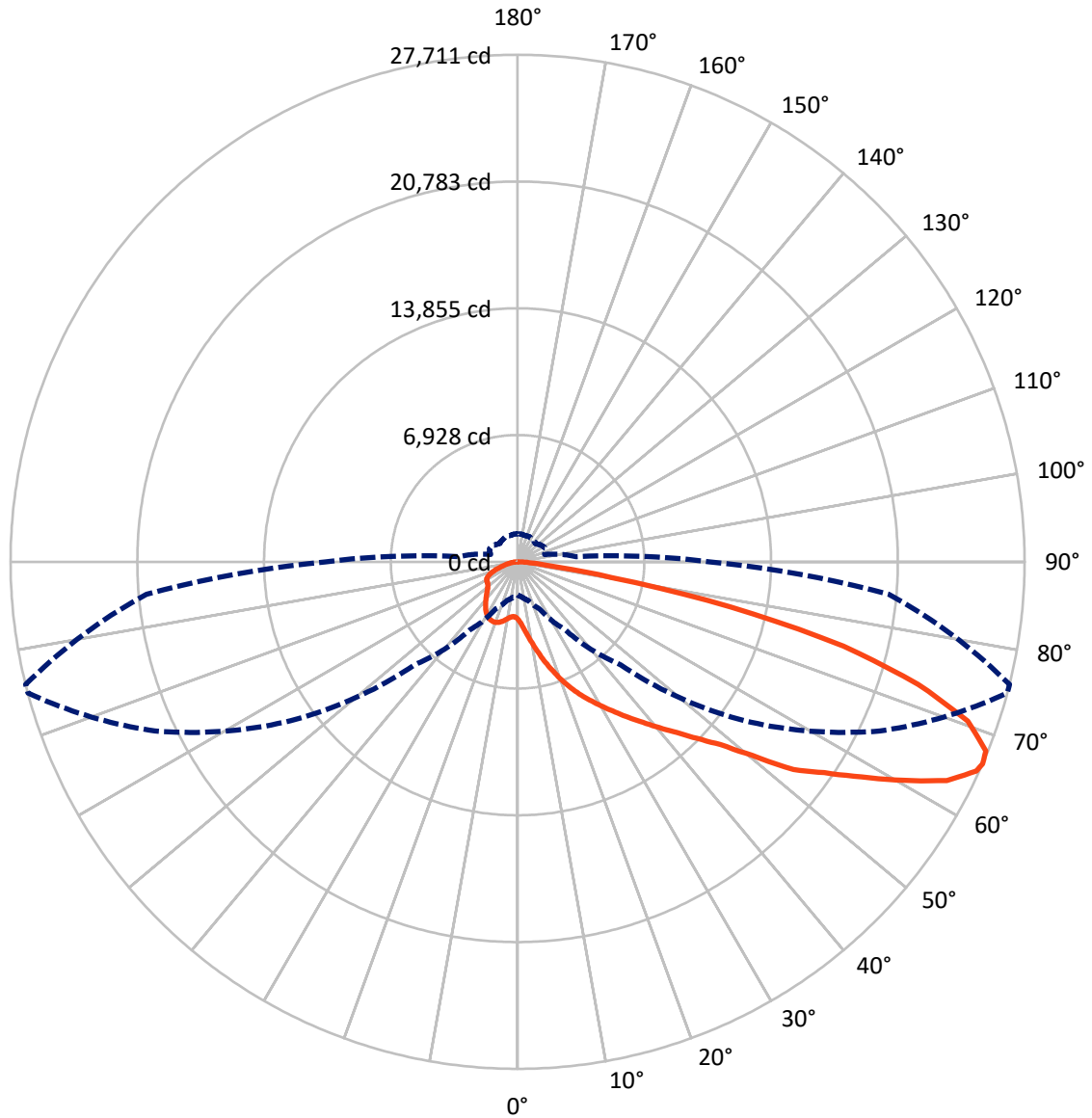
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - Horizontal Cone Through 66-Deg Vertical

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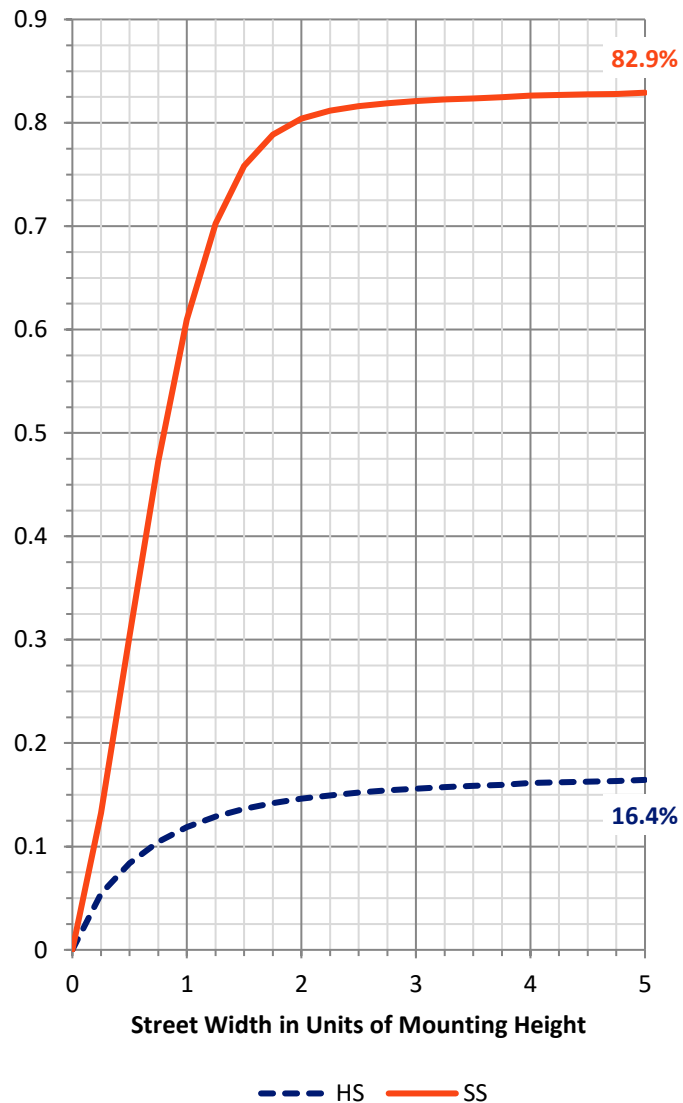
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5778.4 | 0.0 | 5778.4 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 28562.6 | 0.0 | 28562.6 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 34341.0 | 0.0 | 34341.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 379.2 | 1.1 |
| 10°-20° | 1497.6 | 4.4 |
| 20°-30° | 2910.2 | 8.5 |
| 30°-40° | 4750.1 | 13.8 |
| 40°-50° | 6489.8 | 18.9 |
| 50°-60° | 7559.3 | 22.0 |
| 60°-70° | 6777.0 | 19.7 |
| 70°-80° | 3424.8 | 10.0 |
| 80°-90° | 553.1 | 1.6 |
| 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° | 34341.0 | 100.0 |
| 0°-180° | 34341.0 | 100.0 |

Coefficient of Utilization

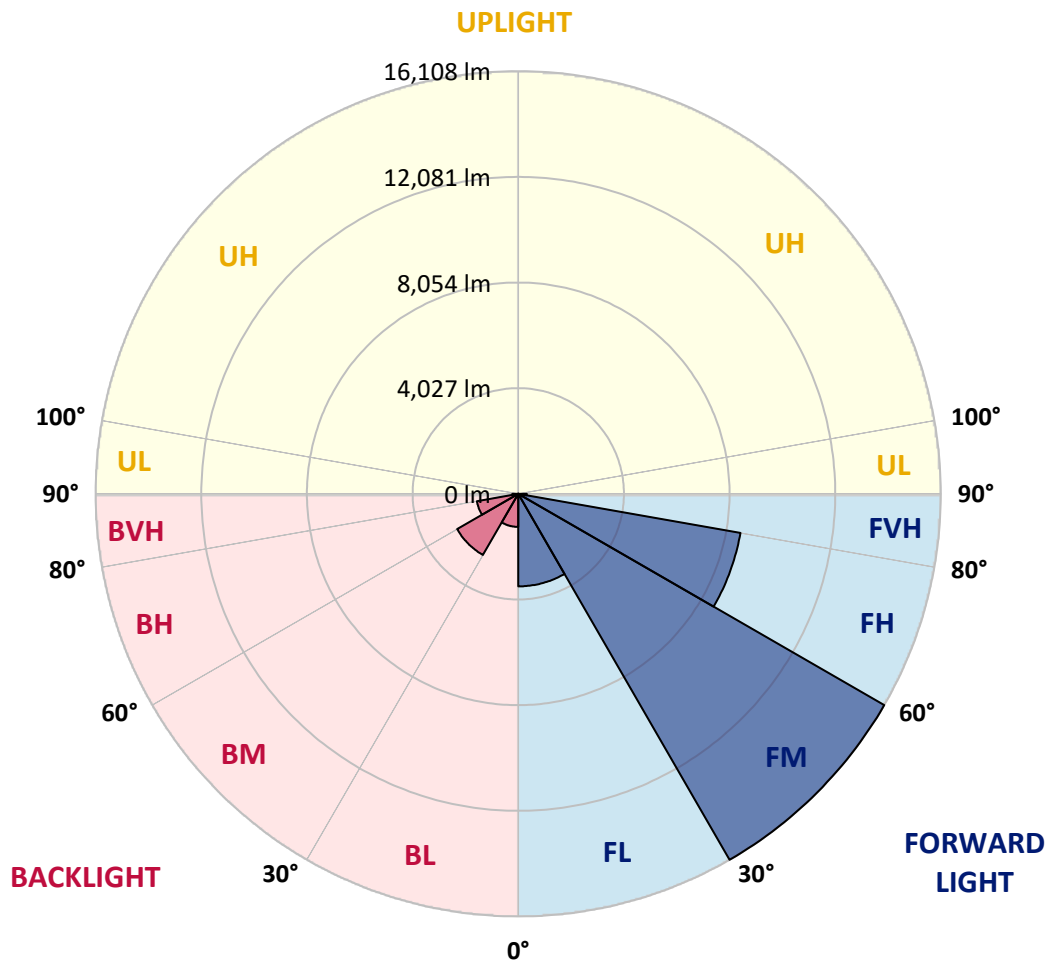


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3526.7 | 10.3 | | | |
| FM (30°-60°) | 16108.3 | 46.9 | | | |
| FH (60°-80°) | 8600.9 | 25.0 | | | G4/12000 |
| FVH (80°-90°) | 326.6 | 1.0 | | | G3/500 |
| BL (0°-30°) | 1260.3 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 2690.8 | 7.8 | B3/5000 | | |
| BH (60°-80°) | 1600.9 | 4.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 226.4 | 0.7 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3136.1 | 3136.1 | 3136.1 | 3136.1 | 3136.1 | 3136.1 | 3136.1 | 3136.1 | 3136.1 | 3136.1 | 3136.1 |
| 2.5° | 4163.2 | 4100.3 | 4094.4 | 4002.3 | 3981.3 | 3805.3 | 3675.9 | 3540.7 | 3386.8 | 3356.5 | 3235.2 |
| 5° | 5347.7 | 5341.9 | 5261.4 | 5111.0 | 4993.3 | 4692.5 | 4395.2 | 4080.4 | 3735.3 | 3679.4 | 3406.6 |
| 7.5° | 6413.3 | 6404.0 | 6342.2 | 6180.1 | 6009.9 | 5640.3 | 5216.0 | 4733.3 | 4173.7 | 4090.9 | 3638.6 |
| 10° | 7222.4 | 7218.9 | 7197.9 | 7079.0 | 6934.4 | 6580.0 | 6111.3 | 5452.6 | 4683.2 | 4570.1 | 3928.9 |
| 12.5° | 7847.3 | 7854.3 | 7868.2 | 7826.3 | 7757.5 | 7455.5 | 6975.2 | 6215.1 | 5226.5 | 5114.5 | 4251.8 |
| 15° | 8270.5 | 8291.4 | 8363.7 | 8423.2 | 8459.3 | 8274.0 | 7808.8 | 6995.0 | 5835.0 | 5701.0 | 4609.7 |
| 17.5° | 8483.8 | 8507.1 | 8631.9 | 8811.4 | 8977.0 | 8958.3 | 8588.7 | 7738.8 | 6419.1 | 6289.7 | 4994.5 |
| 20° | 8668.0 | 8685.5 | 8825.4 | 9041.1 | 9333.7 | 9463.1 | 9255.6 | 8454.7 | 7059.2 | 6905.3 | 5402.5 |
| 22.5° | 9202.0 | 9224.1 | 9266.1 | 9388.5 | 9647.3 | 9885.2 | 9784.9 | 9132.0 | 7645.6 | 7502.2 | 5789.6 |
| 25° | 10232.6 | 10259.4 | 10168.5 | 10064.7 | 10113.7 | 10279.2 | 10297.9 | 9749.9 | 8240.2 | 8078.1 | 6205.8 |
| 27.5° | 11474.2 | 11512.7 | 11357.6 | 11090.6 | 10857.5 | 10793.3 | 10771.2 | 10255.9 | 8807.9 | 8620.2 | 6617.3 |
| 30° | 12690.2 | 12756.6 | 12554.9 | 12208.7 | 11780.8 | 11480.0 | 11257.3 | 10751.4 | 9367.5 | 9188.0 | 7005.5 |
| 32.5° | 13878.2 | 13851.3 | 13558.7 | 13220.6 | 12719.3 | 12342.7 | 11804.1 | 11283.0 | 9997.1 | 9790.7 | 7391.4 |
| 35° | 14691.9 | 14701.2 | 14429.6 | 14028.5 | 13550.6 | 13261.4 | 12536.3 | 11856.6 | 10639.4 | 10449.4 | 7829.8 |
| 37.5° | 15384.4 | 15341.3 | 15033.5 | 14659.3 | 14247.7 | 14124.1 | 13393.2 | 12488.5 | 11335.5 | 11127.9 | 8296.1 |
| 40° | 15615.3 | 15565.1 | 15363.4 | 15094.1 | 14764.2 | 14753.7 | 14338.7 | 13204.3 | 12122.4 | 11917.2 | 8821.9 |
| 42.5° | 15475.4 | 15411.2 | 15328.5 | 15255.0 | 15153.6 | 15200.2 | 15227.0 | 14043.7 | 12987.5 | 12757.8 | 9430.5 |
| 45° | 14958.9 | 14862.1 | 14920.4 | 15080.1 | 15300.5 | 15564.0 | 16029.1 | 14972.9 | 13956.3 | 13763.9 | 10145.1 |
| 47.5° | 14164.9 | 14077.5 | 14259.4 | 14601.0 | 15200.2 | 15867.1 | 16788.1 | 15998.8 | 15112.8 | 14921.6 | 11162.9 |
| 50° | 13048.1 | 13073.7 | 13333.7 | 13955.1 | 14861.0 | 16007.0 | 17723.1 | 17357.0 | 16793.9 | 16615.5 | 12551.4 |
| 52.5° | 11215.4 | 11220.0 | 11952.2 | 12972.3 | 14259.4 | 15934.7 | 18241.9 | 19093.0 | 19089.5 | 18873.8 | 13873.5 |
| 55° | 9513.2 | 9617.0 | 10196.4 | 11552.3 | 13284.7 | 15645.6 | 18604.5 | 19937.0 | 20596.9 | 20343.9 | 15105.8 |
| 57.5° | 7850.8 | 7911.4 | 8460.5 | 9822.2 | 11893.9 | 14874.9 | 18976.4 | 20950.1 | 22334.0 | 22174.3 | 16637.7 |
| 60° | 5959.8 | 6053.0 | 6620.8 | 7878.7 | 10114.8 | 13507.4 | 19011.3 | 22007.5 | 24410.3 | 24249.5 | 18348.0 |
| 62.5° | 3868.3 | 4029.1 | 4560.8 | 5739.4 | 7962.7 | 11540.6 | 18199.9 | 22698.9 | 26378.3 | 26321.2 | 19865.9 |
| 65° | 2223.3 | 2344.5 | 2714.1 | 3623.4 | 5493.4 | 9071.4 | 16270.5 | 22433.1 | 27589.6 | 27556.9 | 20433.7 |
| 66° | 1816.4 | 1892.2 | 2175.5 | 2831.8 | 4532.8 | 7966.2 | 15148.9 | 21872.3 | 27709.7 | 27710.8 | 20368.4 |
| 67.5° | 1452.6 | 1486.4 | 1613.5 | 2027.4 | 3344.8 | 6314.2 | 13144.8 | 20635.4 | 27560.4 | 27601.2 | 19947.5 |
| 70° | 1202.0 | 1219.5 | 1259.1 | 1359.4 | 1825.7 | 3807.6 | 9330.2 | 17421.1 | 26062.3 | 26093.8 | 18304.8 |
| 72.5° | 1078.4 | 1088.9 | 1104.0 | 1118.0 | 1288.3 | 2127.7 | 5698.6 | 13936.4 | 22850.5 | 22891.3 | 15801.8 |
| 75° | 977.0 | 982.8 | 980.5 | 981.6 | 1080.7 | 1355.9 | 2944.9 | 10405.1 | 18476.2 | 18394.6 | 12104.9 |
| 77.5° | 858.1 | 863.9 | 852.2 | 854.6 | 956.0 | 1042.3 | 1465.5 | 7284.2 | 12468.7 | 11892.7 | 6820.2 |
| 80° | 725.2 | 729.8 | 725.2 | 733.3 | 832.4 | 786.9 | 852.2 | 4097.9 | 5513.3 | 5214.8 | 2424.9 |
| 82.5° | 547.9 | 567.8 | 581.8 | 614.4 | 685.5 | 559.6 | 570.1 | 1596.0 | 1678.8 | 1598.4 | 743.8 |
| 85° | 240.2 | 292.6 | 438.4 | 469.8 | 515.3 | 335.8 | 374.2 | 650.5 | 683.2 | 662.2 | 270.5 |
| 87.5° | 63.0 | 68.8 | 216.8 | 272.8 | 285.6 | 151.6 | 194.7 | 296.1 | 312.4 | 296.1 | 89.8 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3136.1 | 3136.1 | 3136.1 | 3136.1 | 3136.1 | 3136.1 | 3136.1 | 3136.1 | 3136.1 | 3136.1 | 3136.1 |
| 2.5° | 3171.1 | 3114.0 | 3011.4 | 2920.4 | 2851.6 | 2805.0 | 2758.4 | 2735.1 | 2721.1 | 2707.1 | 2709.4 |
| 5° | 3272.5 | 3157.1 | 2981.1 | 2856.3 | 2786.4 | 2742.1 | 2718.7 | 2709.4 | 2703.6 | 2689.6 | 2689.6 |
| 7.5° | 3425.2 | 3262.0 | 3019.5 | 2891.3 | 2836.5 | 2802.7 | 2788.7 | 2784.0 | 2777.0 | 2760.7 | 2763.0 |
| 10° | 3617.6 | 3389.1 | 3100.0 | 2975.2 | 2925.1 | 2887.8 | 2868.0 | 2861.0 | 2848.1 | 2829.5 | 2831.8 |
| 12.5° | 3843.8 | 3546.5 | 3206.1 | 3075.5 | 3014.9 | 2964.7 | 2932.1 | 2912.3 | 2890.1 | 2865.6 | 2866.8 |
| 15° | 4090.9 | 3717.9 | 3320.3 | 3165.3 | 3082.5 | 3012.5 | 2960.1 | 2926.3 | 2891.3 | 2861.0 | 2859.8 |
| 17.5° | 4341.6 | 3883.4 | 3407.7 | 3214.2 | 3102.3 | 3010.2 | 2939.1 | 2886.6 | 2843.5 | 2806.2 | 2802.7 |
| 20° | 4612.1 | 4032.6 | 3456.7 | 3209.6 | 3065.0 | 2955.4 | 2861.0 | 2795.7 | 2747.9 | 2710.6 | 2704.7 |
| 22.5° | 4887.2 | 4172.5 | 3464.9 | 3161.8 | 2982.2 | 2848.1 | 2749.0 | 2676.8 | 2627.8 | 2589.3 | 2575.3 |
| 25° | 5139.0 | 4281.0 | 3431.1 | 3069.7 | 2866.8 | 2722.2 | 2625.5 | 2552.0 | 2512.4 | 2466.9 | 2452.9 |
| 27.5° | 5368.7 | 4356.7 | 3363.4 | 2951.9 | 2737.4 | 2595.2 | 2504.2 | 2441.3 | 2398.1 | 2363.2 | 2351.5 |
| 30° | 5575.0 | 4397.5 | 3252.7 | 2812.0 | 2604.5 | 2475.1 | 2398.1 | 2355.0 | 2317.7 | 2273.4 | 2265.2 |
| 32.5° | 5770.9 | 4397.5 | 3110.5 | 2659.3 | 2472.7 | 2369.0 | 2323.5 | 2296.7 | 2254.7 | 2211.6 | 2199.9 |
| 35° | 5966.8 | 4370.7 | 2942.6 | 2499.6 | 2351.5 | 2293.2 | 2290.9 | 2259.4 | 2195.3 | 2137.0 | 2121.8 |
| 37.5° | 6173.1 | 4315.9 | 2753.7 | 2350.3 | 2252.4 | 2259.4 | 2279.2 | 2209.3 | 2118.3 | 2035.6 | 2013.4 |
| 40° | 6406.3 | 4240.2 | 2557.9 | 2220.9 | 2169.6 | 2244.2 | 2247.7 | 2137.0 | 1959.8 | 1884.0 | 1864.2 |
| 42.5° | 6680.3 | 4164.4 | 2376.0 | 2106.7 | 2104.3 | 2198.8 | 2188.3 | 1980.8 | 1874.7 | 1836.2 | 1825.7 |
| 45° | 7040.5 | 4121.2 | 2203.4 | 1998.2 | 2053.0 | 2125.3 | 2086.9 | 1894.5 | 1850.2 | 1828.0 | 1818.7 |
| 47.5° | 7608.3 | 4143.4 | 2044.9 | 1912.0 | 2001.7 | 2051.9 | 1898.0 | 1859.5 | 1828.0 | 1801.2 | 1791.9 |
| 50° | 8319.4 | 4130.6 | 1916.6 | 1852.5 | 1943.5 | 1974.9 | 1812.9 | 1814.0 | 1797.7 | 1767.4 | 1753.4 |
| 52.5° | 8854.5 | 4030.3 | 1833.9 | 1818.7 | 1892.2 | 1838.5 | 1759.3 | 1769.7 | 1761.6 | 1717.3 | 1702.1 |
| 55° | 9371.0 | 3944.0 | 1791.9 | 1805.9 | 1854.9 | 1668.3 | 1696.3 | 1721.9 | 1713.8 | 1670.6 | 1663.7 |
| 57.5° | 10013.4 | 3927.7 | 1766.2 | 1809.4 | 1823.4 | 1583.2 | 1635.7 | 1669.5 | 1663.7 | 1645.0 | 1641.5 |
| 60° | 10800.3 | 3932.4 | 1742.9 | 1815.2 | 1788.4 | 1520.3 | 1578.5 | 1621.7 | 1625.2 | 1621.7 | 1619.4 |
| 62.5° | 11232.9 | 3805.3 | 1684.6 | 1798.9 | 1726.6 | 1465.5 | 1519.1 | 1582.0 | 1583.2 | 1590.2 | 1589.0 |
| 65° | 10865.6 | 3425.2 | 1576.2 | 1741.8 | 1622.8 | 1420.0 | 1467.8 | 1536.6 | 1519.1 | 1550.6 | 1550.6 |
| 66° | 10508.9 | 3206.1 | 1522.6 | 1704.5 | 1578.5 | 1402.5 | 1451.5 | 1513.3 | 1491.1 | 1534.2 | 1534.2 |
| 67.5° | 9780.2 | 2836.5 | 1425.8 | 1625.2 | 1515.6 | 1378.0 | 1432.8 | 1474.8 | 1444.5 | 1508.6 | 1503.9 |
| 70° | 8448.8 | 2194.1 | 1231.1 | 1445.6 | 1411.8 | 1341.9 | 1407.2 | 1397.8 | 1353.5 | 1451.5 | 1432.8 |
| 72.5° | 7123.3 | 1667.2 | 988.6 | 1210.1 | 1254.4 | 1296.4 | 1371.0 | 1299.9 | 1244.0 | 1312.7 | 1271.9 |
| 75° | 5527.2 | 1253.3 | 781.1 | 940.8 | 1059.7 | 1225.3 | 1327.9 | 1186.8 | 1106.4 | 1099.4 | 1077.2 |
| 77.5° | 2988.0 | 860.4 | 619.1 | 718.2 | 841.7 | 1136.7 | 1298.7 | 1065.6 | 944.3 | 916.3 | 898.9 |
| 80° | 1183.3 | 559.6 | 450.0 | 544.4 | 588.7 | 1008.5 | 1228.8 | 924.5 | 778.8 | 750.8 | 724.0 |
| 82.5° | 488.5 | 331.1 | 290.3 | 364.9 | 383.6 | 862.7 | 1102.9 | 757.8 | 601.6 | 832.4 | 883.7 |
| 85° | 209.9 | 181.9 | 172.5 | 188.9 | 216.8 | 605.1 | 877.9 | 578.3 | 649.4 | 579.4 | 460.5 |
| 87.5° | 63.0 | 76.9 | 73.4 | 72.3 | 79.3 | 144.6 | 467.5 | 321.8 | 476.8 | 180.7 | 135.2 |
| 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)