

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: P268635

Luminaire Tested: **GAN-AF-06-LED-U-T4FT-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-06-LED-U-T4FT-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25139.7 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 249
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

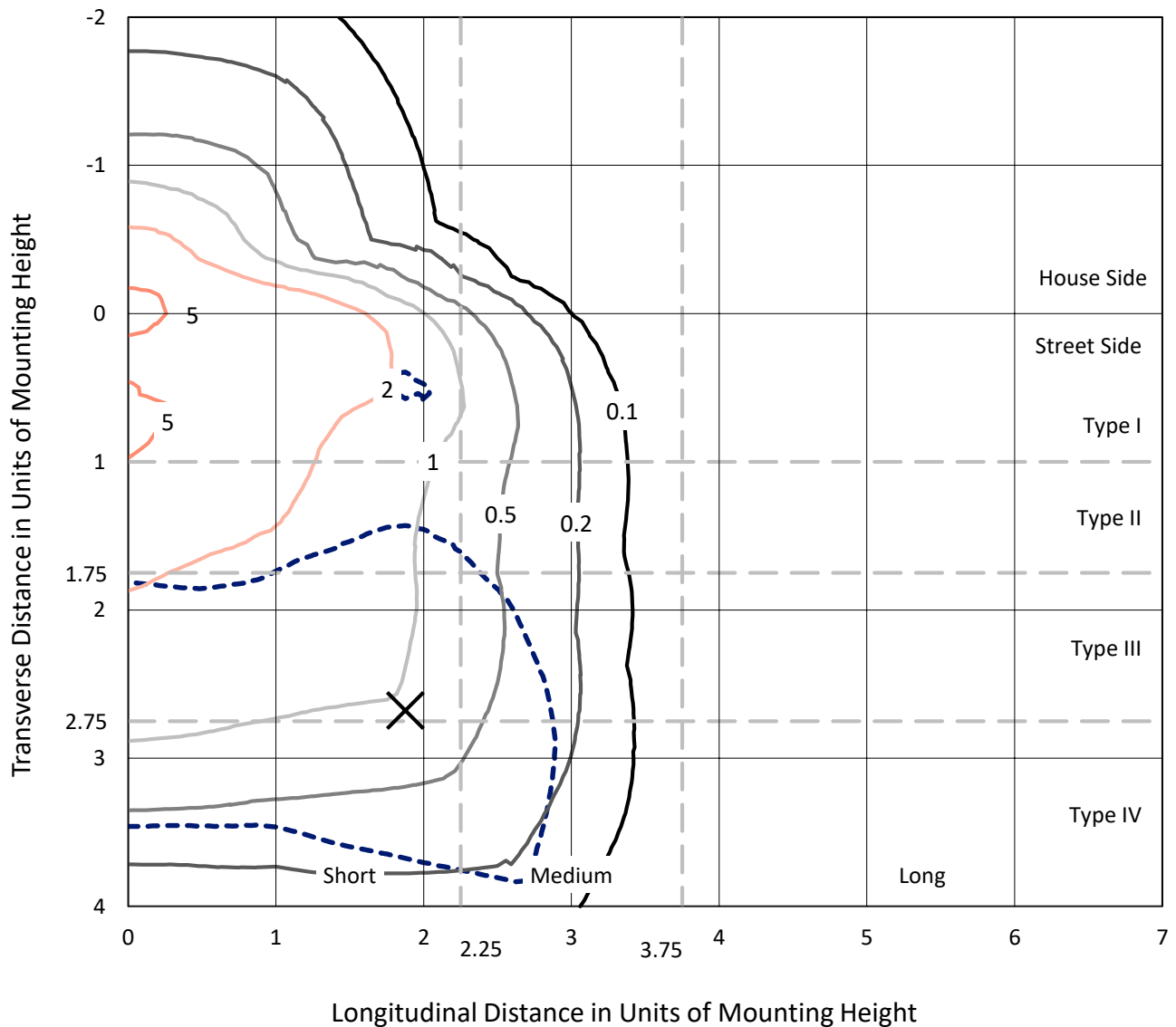


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

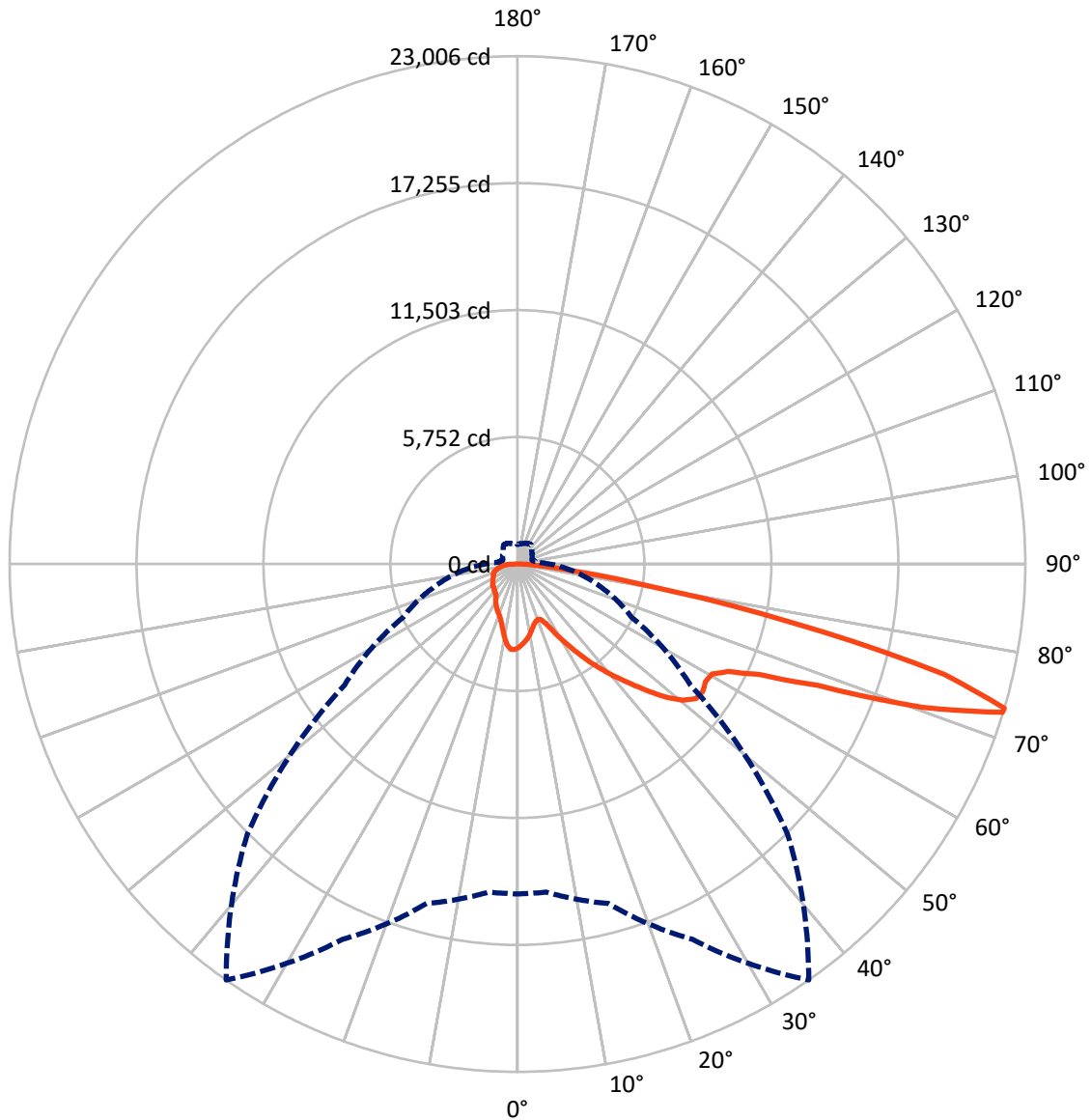


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4794.8 | 0.0 | 4794.8 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 20344.8 | 0.0 | 20344.8 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 25139.7 | 0.0 | 25139.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 343.5 | 1.4 |
| 10°-20° | 857.3 | 3.4 |
| 20°-30° | 1386.0 | 5.5 |
| 30°-40° | 2324.1 | 9.2 |
| 40°-50° | 3582.5 | 14.3 |
| 50°-60° | 4806.3 | 19.1 |
| 60°-70° | 6403.0 | 25.5 |
| 70°-80° | 4883.5 | 19.4 |
| 80°-90° | 553.5 | 2.2 |
| 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° | 25139.7 | 100.0 |
| 0°-180° | 25139.7 | 100.0 |

Coefficient of Utilization



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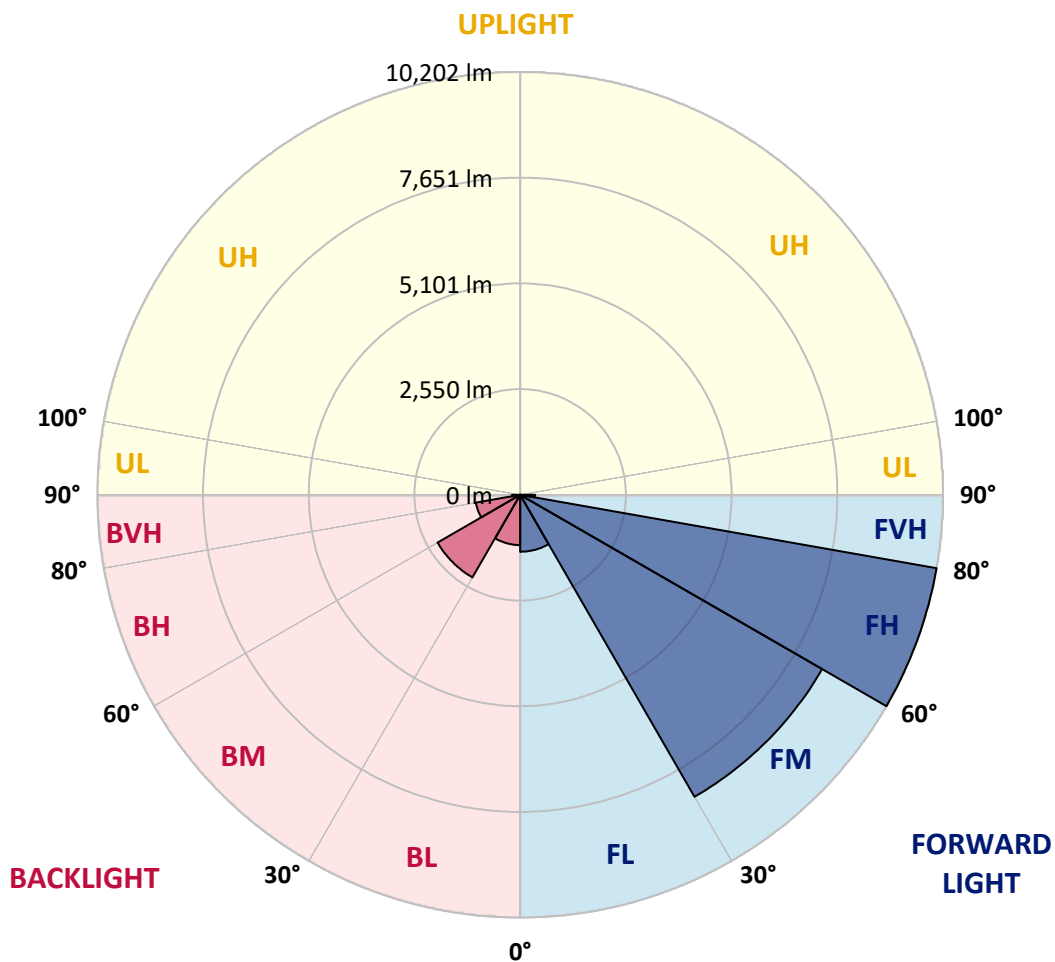
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1373.5 | 5.5 | | | |
| FM | (30°-60°) | 8411.9 | 33.5 | | | |
| FH | (60°-80°) | 10201.7 | 40.6 | | | G4/12000 |
| FVH | (80°-90°) | 357.8 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 1213.3 | 4.8 | B3/2500 | | |
| BM | (30°-60°) | 2301.0 | 9.2 | B2/2500 | | |
| BH | (60°-80°) | 1084.8 | 4.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 195.7 | 0.8 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|--------|
| 0° | 3794.4 | 3794.4 | 3794.4 | 3794.4 | 3794.4 | 3794.4 | 3794.4 | 3794.4 | 3794.4 | 3794.4 | 3794.4 |
| 2.5° | 3644.7 | 3651.9 | 3643.4 | 3654.3 | 3672.5 | 3691.8 | 3705.0 | 3724.4 | 3746.0 | 3776.3 | 3783.5 |
| 5° | 3473.2 | 3484.0 | 3484.0 | 3503.4 | 3538.5 | 3569.9 | 3598.8 | 3630.2 | 3676.0 | 3728.0 | 3748.4 |
| 7.5° | 3284.9 | 3290.9 | 3301.8 | 3330.7 | 3381.5 | 3426.1 | 3467.2 | 3517.9 | 3580.6 | 3649.5 | 3685.7 |
| 10° | 3057.9 | 3066.4 | 3083.3 | 3124.3 | 3193.1 | 3254.6 | 3313.8 | 3383.8 | 3463.5 | 3549.4 | 3595.1 |
| 12.5° | 2897.4 | 2895.0 | 2902.2 | 2932.3 | 2992.8 | 3067.6 | 3153.3 | 3242.6 | 3340.4 | 3440.7 | 3496.2 |
| 15° | 2843.0 | 2829.8 | 2802.1 | 2794.7 | 2827.3 | 2902.2 | 3001.1 | 3111.1 | 3228.1 | 3348.9 | 3417.7 |
| 17.5° | 2876.8 | 2853.9 | 2777.9 | 2722.4 | 2717.6 | 2774.2 | 2879.2 | 3002.4 | 3137.6 | 3284.9 | 3370.6 |
| 20° | 3089.4 | 3035.1 | 2847.8 | 2718.7 | 2674.1 | 2701.8 | 2793.5 | 2924.0 | 3083.3 | 3278.9 | 3388.8 |
| 22.5° | 3597.6 | 3517.9 | 3120.7 | 2880.4 | 2729.6 | 2695.8 | 2764.5 | 2903.4 | 3089.4 | 3353.7 | 3493.8 |
| 25° | 4337.6 | 4224.1 | 3589.1 | 3283.8 | 2972.2 | 2792.3 | 2808.0 | 2950.6 | 3175.0 | 3527.6 | 3696.5 |
| 27.5° | 4922.0 | 4848.3 | 4201.3 | 3852.3 | 3414.1 | 3053.1 | 2949.2 | 3068.8 | 3350.0 | 3812.4 | 3985.2 |
| 30° | 5269.5 | 5224.9 | 4855.5 | 4496.9 | 3977.9 | 3468.4 | 3219.7 | 3290.9 | 3624.1 | 4207.2 | 4349.8 |
| 32.5° | 5672.8 | 5646.2 | 5465.2 | 5135.6 | 4586.2 | 4014.0 | 3648.2 | 3623.0 | 3991.1 | 4681.6 | 4746.9 |
| 35° | 6090.5 | 6082.1 | 5975.9 | 5739.2 | 5239.5 | 4733.6 | 4217.0 | 4045.4 | 4390.7 | 5174.2 | 5133.2 |
| 37.5° | 6479.2 | 6464.7 | 6403.2 | 6265.6 | 5922.7 | 5506.3 | 4796.4 | 4478.9 | 4821.7 | 5645.0 | 5462.8 |
| 40° | 7195.2 | 7081.7 | 6870.3 | 6766.7 | 6613.2 | 6157.0 | 5256.3 | 4883.2 | 5268.4 | 6094.1 | 5747.6 |
| 42.5° | 8067.9 | 7883.3 | 7489.7 | 7347.2 | 7325.6 | 6670.1 | 5570.2 | 5275.7 | 5718.7 | 6539.7 | 6027.7 |
| 45° | 8754.9 | 8581.1 | 8241.8 | 8062.0 | 8141.6 | 7134.8 | 5885.2 | 5694.5 | 6182.2 | 7006.8 | 6316.3 |
| 47.5° | 9487.7 | 9214.9 | 8765.8 | 8820.1 | 8993.9 | 7574.1 | 6206.4 | 6144.9 | 6690.5 | 7529.6 | 6674.9 |
| 50° | 9514.3 | 9305.5 | 9108.6 | 9433.5 | 9703.9 | 7978.7 | 6608.4 | 6616.8 | 7312.3 | 8187.5 | 7151.6 |
| 52.5° | 8962.6 | 8917.8 | 9230.5 | 9741.2 | 10131.2 | 8298.5 | 7066.0 | 7104.6 | 8107.8 | 8943.3 | 7675.7 |
| 55° | 8769.4 | 8718.7 | 9079.7 | 9633.8 | 10189.1 | 8563.0 | 7562.1 | 7632.2 | 9069.9 | 9740.1 | 8186.3 |
| 57.5° | 9240.2 | 9127.9 | 9152.1 | 9583.1 | 10047.8 | 8852.6 | 8103.0 | 8244.3 | 10115.5 | 10436.6 | 8514.7 |
| 60° | 10556.2 | 10315.9 | 9859.5 | 9848.7 | 10123.9 | 9287.2 | 8728.3 | 8900.9 | 11202.0 | 10769.8 | 8386.7 |
| 62.5° | 12402.0 | 12161.8 | 11307.1 | 10750.5 | 10709.5 | 10004.5 | 9496.2 | 9542.1 | 11829.8 | 10318.3 | 7605.6 |
| 65° | 14400.0 | 14185.0 | 13230.1 | 12444.2 | 12065.1 | 11192.3 | 10388.3 | 9828.1 | 11624.4 | 9076.0 | 6239.0 |
| 67.5° | 16825.3 | 16594.7 | 15773.8 | 15048.2 | 14683.7 | 13109.4 | 11014.8 | 9554.2 | 10322.0 | 7030.9 | 4484.9 |
| 70° | 18521.4 | 18286.1 | 17962.5 | 18550.4 | 19442.6 | 15875.1 | 11095.8 | 8439.8 | 7709.4 | 4673.3 | 2699.3 |
| 72.5° | 16308.5 | 16198.7 | 16789.1 | 19265.1 | 22981.0 | 17553.3 | 10029.8 | 6144.9 | 4477.6 | 2480.8 | 1562.2 |
| 73° | 14942.0 | 14917.9 | 15924.8 | 18764.2 | 23006.4 | 17294.9 | 9562.5 | 5711.5 | 3840.3 | 2194.7 | 1428.1 |
| 75° | 6747.3 | 6941.7 | 9148.5 | 14332.4 | 19988.2 | 14251.5 | 6730.5 | 3276.5 | 2169.3 | 1516.2 | 1078.1 |
| 77.5° | 1621.4 | 1689.0 | 2862.4 | 6806.4 | 12623.0 | 8492.9 | 3049.4 | 1620.2 | 1387.2 | 1070.8 | 787.2 |
| 80° | 690.5 | 713.4 | 1102.2 | 2514.6 | 5943.2 | 3420.0 | 1405.2 | 1085.3 | 959.7 | 747.3 | 551.6 |
| 82.5° | 383.8 | 408.0 | 625.3 | 1140.8 | 2398.7 | 1166.2 | 857.2 | 755.7 | 631.4 | 450.3 | 358.6 |
| 85° | 217.3 | 230.5 | 365.8 | 637.3 | 1016.5 | 468.3 | 513.1 | 502.2 | 356.2 | 231.9 | 176.2 |
| 87.5° | 102.6 | 111.1 | 176.2 | 295.8 | 398.4 | 183.6 | 260.8 | 287.3 | 223.4 | 141.3 | 91.7 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3794.4 | 3794.4 | 3794.4 | 3794.4 | 3794.4 | 3794.4 | 3794.4 | 3794.4 | 3794.4 | 3794.4 |
| 2.5° | 3791.9 | 3813.7 | 3839.0 | 3852.3 | 3864.4 | 3878.8 | 3893.3 | 3893.3 | 3895.8 | 3896.9 |
| 5° | 3765.3 | 3810.0 | 3849.9 | 3866.8 | 3870.3 | 3870.3 | 3866.8 | 3847.5 | 3830.6 | 3837.7 |
| 7.5° | 3709.8 | 3775.0 | 3808.9 | 3802.9 | 3756.9 | 3703.8 | 3659.2 | 3604.8 | 3577.1 | 3572.2 |
| 10° | 3630.2 | 3705.0 | 3711.1 | 3650.7 | 3537.3 | 3423.7 | 3329.6 | 3237.9 | 3194.4 | 3183.6 |
| 12.5° | 3542.0 | 3610.8 | 3572.2 | 3447.9 | 3265.6 | 3100.2 | 2980.7 | 2887.7 | 2846.6 | 2835.8 |
| 15° | 3470.8 | 3517.9 | 3420.0 | 3224.6 | 2995.2 | 2820.0 | 2721.1 | 2652.3 | 2623.3 | 2614.8 |
| 17.5° | 3433.4 | 3443.1 | 3264.4 | 3000.0 | 2756.1 | 2610.0 | 2548.5 | 2516.0 | 2505.1 | 2498.9 |
| 20° | 3451.5 | 3383.8 | 3116.0 | 2791.2 | 2560.6 | 2457.9 | 2443.5 | 2434.9 | 2432.6 | 2428.9 |
| 22.5° | 3542.0 | 3365.8 | 2979.5 | 2593.1 | 2389.1 | 2344.4 | 2356.6 | 2355.4 | 2352.9 | 2350.4 |
| 25° | 3703.8 | 3381.5 | 2846.6 | 2404.9 | 2245.5 | 2235.8 | 2257.5 | 2257.5 | 2247.9 | 2247.9 |
| 27.5° | 3917.5 | 3414.1 | 2698.1 | 2226.2 | 2115.1 | 2116.2 | 2133.1 | 2128.4 | 2117.6 | 2110.3 |
| 30° | 4178.2 | 3434.6 | 2524.3 | 2065.7 | 1993.2 | 1988.3 | 1993.2 | 1972.7 | 1940.0 | 1937.6 |
| 32.5° | 4445.1 | 3409.2 | 2322.7 | 1923.1 | 1864.0 | 1853.2 | 1849.5 | 1820.5 | 1783.0 | 1772.3 |
| 35° | 4686.5 | 3316.4 | 2117.6 | 1809.6 | 1740.8 | 1716.8 | 1733.5 | 1723.9 | 1690.2 | 1681.6 |
| 37.5° | 4862.7 | 3143.7 | 1932.9 | 1709.5 | 1652.7 | 1646.7 | 1657.6 | 1661.1 | 1621.4 | 1612.8 |
| 40° | 4981.1 | 2909.4 | 1774.6 | 1624.9 | 1635.9 | 1612.8 | 1576.6 | 1551.4 | 1539.2 | 1535.7 |
| 42.5° | 5076.4 | 2665.6 | 1641.8 | 1585.1 | 1639.4 | 1573.0 | 1494.6 | 1453.5 | 1475.2 | 1484.9 |
| 45° | 5186.4 | 2427.8 | 1530.8 | 1535.7 | 1621.4 | 1527.2 | 1437.8 | 1398.0 | 1406.4 | 1408.8 |
| 47.5° | 5337.2 | 2138.1 | 1411.2 | 1456.0 | 1561.0 | 1495.8 | 1402.9 | 1346.1 | 1306.2 | 1288.1 |
| 50° | 5546.0 | 1795.2 | 1286.9 | 1366.6 | 1501.7 | 1472.9 | 1348.4 | 1288.1 | 1214.5 | 1197.6 |
| 52.5° | 5690.9 | 1475.2 | 1184.2 | 1291.8 | 1448.6 | 1427.0 | 1305.1 | 1226.5 | 1149.3 | 1134.7 |
| 55° | 5612.5 | 1225.4 | 1094.9 | 1208.4 | 1378.7 | 1370.3 | 1268.8 | 1163.8 | 1103.4 | 1091.4 |
| 57.5° | 5220.1 | 1067.1 | 1026.1 | 1130.0 | 1292.9 | 1321.9 | 1220.4 | 1110.7 | 1067.1 | 1058.7 |
| 60° | 4471.7 | 968.3 | 982.7 | 1076.9 | 1223.0 | 1273.6 | 1172.2 | 1081.6 | 1052.8 | 1046.6 |
| 62.5° | 3469.7 | 901.8 | 950.0 | 1038.3 | 1168.7 | 1239.8 | 1145.7 | 1078.1 | 1067.1 | 1060.0 |
| 65° | 2485.7 | 848.7 | 915.2 | 999.6 | 1119.1 | 1208.4 | 1135.9 | 1073.3 | 1075.6 | 1069.6 |
| 67.5° | 1689.0 | 801.6 | 872.9 | 956.2 | 1070.8 | 1180.7 | 1122.7 | 1056.3 | 1086.5 | 1079.3 |
| 70° | 1181.9 | 755.7 | 823.3 | 900.6 | 1010.5 | 1142.0 | 1098.5 | 1031.0 | 1028.6 | 999.6 |
| 72.5° | 922.3 | 695.4 | 755.7 | 823.3 | 933.2 | 1087.7 | 1050.3 | 974.2 | 934.3 | 904.2 |
| 73° | 880.1 | 680.8 | 738.9 | 806.5 | 916.4 | 1074.5 | 1037.1 | 958.5 | 913.8 | 886.1 |
| 75° | 727.9 | 618.2 | 671.3 | 731.6 | 843.9 | 1011.8 | 971.8 | 887.3 | 830.7 | 813.7 |
| 77.5° | 572.2 | 528.7 | 579.4 | 633.8 | 743.6 | 920.0 | 875.3 | 794.5 | 763.0 | 748.5 |
| 80° | 423.7 | 438.3 | 482.8 | 531.2 | 644.7 | 822.0 | 782.3 | 701.3 | 841.4 | 806.5 |
| 82.5° | 298.1 | 332.1 | 373.1 | 416.5 | 540.8 | 726.8 | 678.5 | 595.1 | 615.7 | 511.9 |
| 85° | 176.2 | 217.3 | 255.9 | 293.3 | 390.0 | 602.5 | 560.2 | 474.5 | 388.7 | 370.6 |
| 87.5° | 102.6 | 120.7 | 131.6 | 170.1 | 268.1 | 454.0 | 394.7 | 351.2 | 201.6 | 136.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)