

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: P299365

Luminaire Tested: **GAA-AF-06-LED-U-SLR-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-06-LED-U-SLR-7027
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27094.3 lumens
Efficiency: N/A
Efficacy: 81.4 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): 333
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

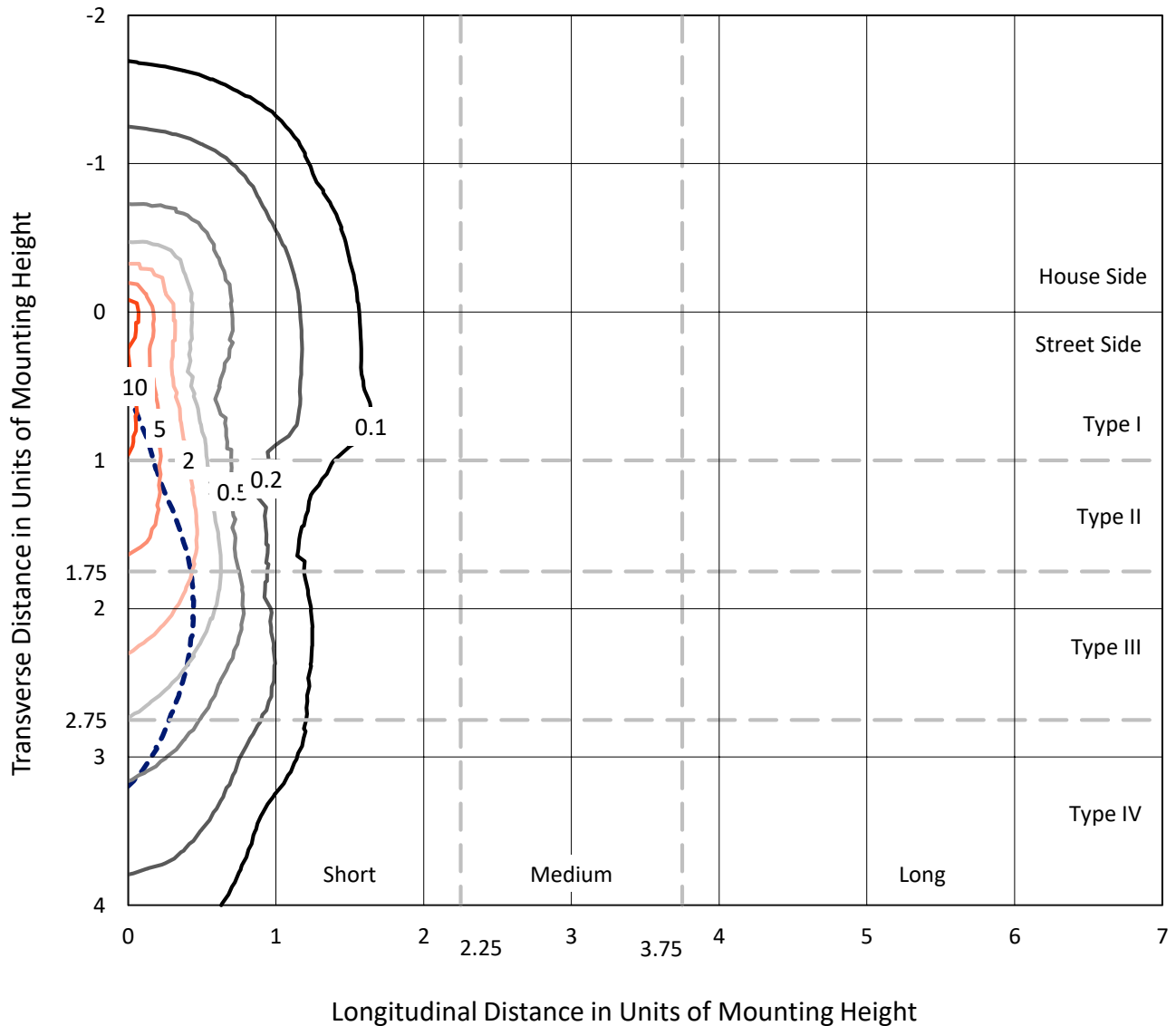


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

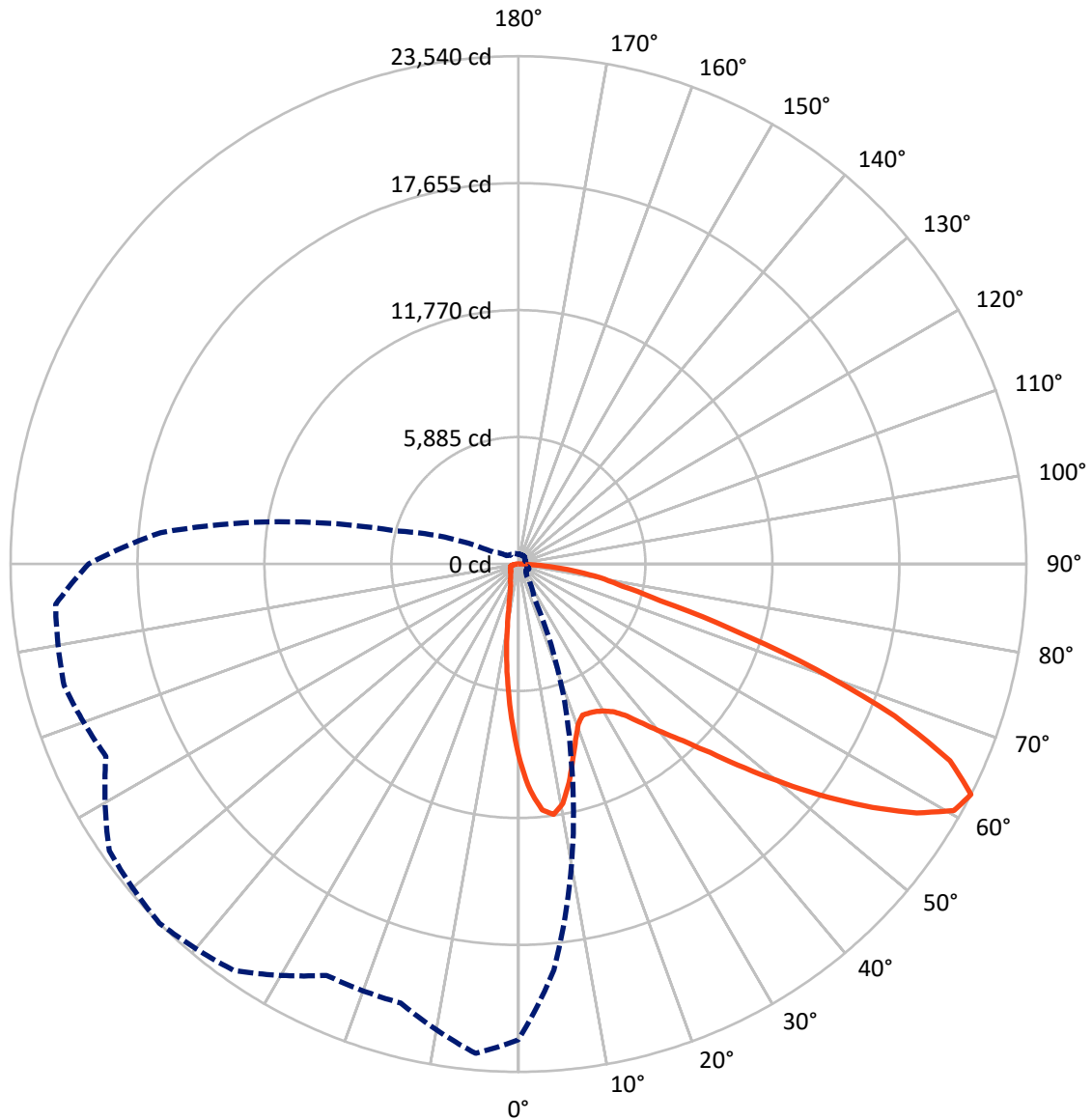


Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4483.8 | 0.0 | 4483.8 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 22610.6 | 0.0 | 22610.6 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 27094.3 | 0.0 | 27094.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 666.4 | 2.5 |
| 10°-20° | 1221.9 | 4.5 |
| 20°-30° | 1781.6 | 6.6 |
| 30°-40° | 2743.9 | 10.1 |
| 40°-50° | 4038.3 | 14.9 |
| 50°-60° | 5923.3 | 21.9 |
| 60°-70° | 6621.4 | 24.4 |
| 70°-80° | 3241.8 | 12.0 |
| 80°-90° | 855.9 | 3.2 |
| 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° | 27094.3 | 100.0 |
| 0°-180° | 27094.3 | 100.0 |

Coefficient of Utilization



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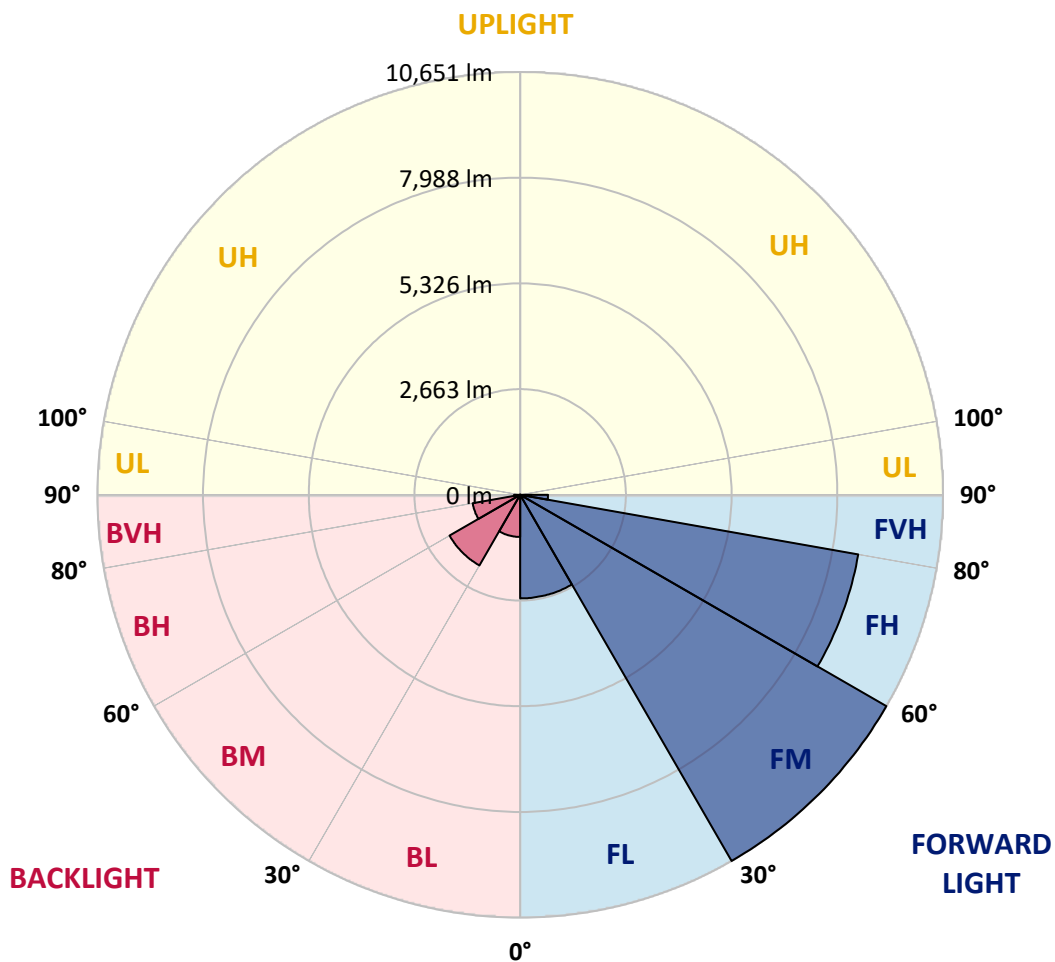
CATALOG NUMBER: GAA-AF-06-LED-U-SLR-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2609.1 | 9.6 | | | |
| FM (30°-60°) | 10651.0 | 39.3 | | | |
| FH (60°-80°) | 8647.6 | 31.9 | | | G4/12000 |
| FVH (80°-90°) | 702.9 | 2.6 | | | G4/750 |
| BL (0°-30°) | 1060.8 | 3.9 | B3/2500 | | |
| BM (30°-60°) | 2054.4 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 1215.6 | 4.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 153.0 | 0.6 | | | 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° | 9154.1 | 9154.1 | 9154.1 | 9154.1 | 9154.1 | 9154.1 | 9154.1 | 9154.1 | 9154.1 | 9154.1 | 9154.1 |
| 2.5° | 9511.2 | 9317.8 | 8995.8 | 8660.8 | 8457.0 | 8218.5 | 8032.3 | 7868.6 | 7540.8 | 7476.8 | 7534.9 |
| 5° | 8944.0 | 8555.3 | 7948.8 | 7338.3 | 6931.6 | 6495.2 | 6155.6 | 5883.3 | 5467.6 | 5394.5 | 5482.4 |
| 7.5° | 8034.1 | 7569.2 | 6767.9 | 5988.8 | 5413.9 | 4868.8 | 4502.6 | 4210.5 | 3885.8 | 3746.0 | 3754.6 |
| 10° | 7249.0 | 6724.7 | 5777.3 | 4930.1 | 4459.4 | 4091.4 | 3783.0 | 3483.6 | 3154.5 | 2938.5 | 2879.0 |
| 12.5° | 6809.4 | 6206.6 | 5114.5 | 4357.9 | 3921.4 | 3534.6 | 3202.3 | 2882.1 | 2530.4 | 2309.9 | 2247.7 |
| 15° | 6733.7 | 6078.1 | 4866.1 | 3991.8 | 3444.8 | 2955.2 | 2563.3 | 2205.8 | 1843.7 | 1665.2 | 1627.7 |
| 17.5° | 7062.8 | 6307.6 | 4785.4 | 3665.3 | 2996.7 | 2392.0 | 1910.9 | 1511.9 | 1217.0 | 1127.7 | 1120.0 |
| 20° | 7694.1 | 6748.6 | 4775.0 | 3358.7 | 2554.3 | 1845.5 | 1331.5 | 1041.1 | 911.7 | 886.0 | 887.8 |
| 22.5° | 8580.5 | 7432.1 | 4903.0 | 3127.9 | 2147.6 | 1376.1 | 1001.0 | 871.1 | 820.6 | 796.7 | 796.7 |
| 25° | 9727.2 | 8373.6 | 5197.9 | 2959.7 | 1794.6 | 1099.3 | 883.3 | 805.8 | 758.0 | 741.7 | 744.9 |
| 27.5° | 10838.6 | 9289.4 | 5540.6 | 2827.1 | 1563.7 | 997.8 | 836.9 | 767.0 | 725.5 | 708.8 | 716.5 |
| 30° | 11705.2 | 10102.8 | 5826.5 | 2646.8 | 1446.0 | 969.4 | 853.5 | 781.9 | 722.3 | 697.1 | 698.4 |
| 32.5° | 12423.1 | 10814.7 | 6066.3 | 2516.9 | 1341.9 | 831.0 | 735.9 | 704.3 | 697.1 | 667.3 | 652.4 |
| 35° | 13340.6 | 11590.7 | 6227.3 | 2520.1 | 1292.7 | 741.7 | 655.2 | 600.1 | 560.0 | 525.7 | 525.7 |
| 37.5° | 14416.0 | 12481.2 | 6398.7 | 2554.3 | 1275.1 | 689.4 | 627.2 | 571.7 | 534.8 | 501.8 | 496.0 |
| 40° | 15479.2 | 13354.2 | 6555.1 | 2587.2 | 1264.3 | 658.3 | 604.7 | 554.2 | 519.9 | 487.0 | 477.9 |
| 42.5° | 16383.7 | 14072.0 | 6694.9 | 2603.5 | 1228.7 | 655.2 | 588.4 | 542.0 | 509.5 | 473.4 | 464.9 |
| 45° | 17052.4 | 14673.5 | 6845.5 | 2628.7 | 1193.1 | 667.3 | 588.4 | 540.6 | 500.5 | 466.2 | 457.2 |
| 47.5° | 17649.4 | 15379.6 | 7097.1 | 2628.7 | 1149.8 | 644.8 | 607.8 | 542.0 | 499.1 | 463.1 | 455.9 |
| 50° | 18449.3 | 16347.7 | 7573.7 | 2567.9 | 1088.9 | 620.9 | 640.3 | 536.1 | 485.6 | 457.2 | 448.2 |
| 52.5° | 19551.3 | 17588.5 | 8330.3 | 2461.9 | 995.1 | 574.9 | 635.8 | 533.4 | 472.1 | 442.3 | 432.0 |
| 55° | 20854.8 | 18916.9 | 9155.4 | 2338.3 | 854.9 | 542.0 | 613.7 | 525.7 | 457.2 | 424.3 | 413.9 |
| 57.5° | 21872.0 | 19831.3 | 9736.2 | 2147.6 | 732.7 | 524.4 | 543.8 | 518.5 | 439.2 | 404.9 | 396.3 |
| 60° | 22276.9 | 19795.7 | 9895.8 | 1892.9 | 673.2 | 509.5 | 475.2 | 580.8 | 424.3 | 390.0 | 379.7 |
| 62.5° | 22058.3 | 18881.3 | 9449.0 | 1714.3 | 659.7 | 490.1 | 445.5 | 537.5 | 412.6 | 379.7 | 364.8 |
| 65° | 21046.9 | 17260.7 | 8264.9 | 1666.5 | 698.4 | 470.7 | 426.1 | 421.6 | 396.3 | 364.8 | 349.9 |
| 67.5° | 18843.8 | 14839.0 | 6617.3 | 1671.0 | 747.6 | 451.3 | 406.7 | 386.0 | 373.8 | 348.5 | 335.0 |
| 70° | 15348.5 | 11732.3 | 4932.8 | 1683.2 | 772.8 | 428.8 | 386.0 | 363.4 | 349.9 | 324.6 | 315.6 |
| 72.5° | 11285.5 | 9042.3 | 3583.7 | 1605.6 | 777.3 | 403.6 | 357.6 | 338.2 | 324.6 | 298.0 | 290.4 |
| 75° | 7721.1 | 6916.7 | 2485.8 | 1330.1 | 677.7 | 367.9 | 326.0 | 308.4 | 299.4 | 266.5 | 262.0 |
| 77.5° | 5640.3 | 5192.1 | 1590.8 | 987.5 | 522.6 | 323.3 | 287.7 | 274.1 | 268.3 | 232.2 | 226.3 |
| 80° | 4526.5 | 4107.7 | 995.1 | 676.3 | 382.8 | 271.0 | 241.2 | 234.0 | 227.7 | 192.1 | 187.6 |
| 82.5° | 3139.6 | 2750.9 | 638.9 | 439.2 | 287.7 | 210.1 | 190.7 | 187.6 | 178.6 | 146.1 | 141.6 |
| 85° | 1656.1 | 1493.8 | 404.9 | 299.4 | 208.3 | 144.3 | 132.6 | 132.6 | 128.1 | 96.9 | 93.8 |
| 87.5° | 211.5 | 344.0 | 205.6 | 156.5 | 114.5 | 64.0 | 64.0 | 62.7 | 67.2 | 55.0 | 47.8 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9154.1 | 9154.1 | 9154.1 | 9154.1 | 9154.1 | 9154.1 | 9154.1 | 9154.1 | 9154.1 | 9154.1 | 9154.1 |
| 2.5° | 7397.8 | 7469.5 | 7401.0 | 7405.5 | 7481.3 | 7707.6 | 7810.4 | 7895.2 | 7986.3 | 8045.8 | 8072.4 |
| 5° | 5362.1 | 5528.9 | 5585.2 | 5704.3 | 5880.1 | 6169.2 | 6283.7 | 6367.1 | 6422.6 | 6455.0 | 6468.5 |
| 7.5° | 3667.1 | 3768.1 | 3881.3 | 4073.4 | 4456.2 | 4626.2 | 4701.9 | 4682.6 | 4620.3 | 4597.8 | 4575.7 |
| 10° | 2764.4 | 2724.3 | 2703.1 | 2809.1 | 3118.8 | 3290.2 | 3343.8 | 3291.5 | 3257.3 | 3264.9 | 3301.9 |
| 12.5° | 2141.8 | 2071.9 | 1987.1 | 1974.9 | 2179.2 | 2332.5 | 2366.8 | 2369.5 | 2432.1 | 2487.1 | 2569.2 |
| 15° | 1561.0 | 1553.3 | 1511.9 | 1486.6 | 1602.5 | 1727.8 | 1742.7 | 1769.3 | 1826.1 | 1866.3 | 1937.5 |
| 17.5° | 1100.6 | 1140.8 | 1173.7 | 1189.9 | 1277.8 | 1367.1 | 1350.9 | 1337.4 | 1327.0 | 1327.0 | 1361.3 |
| 20° | 887.8 | 914.4 | 956.3 | 1003.7 | 1093.4 | 1155.6 | 1115.5 | 1061.9 | 1023.1 | 1011.4 | 1015.9 |
| 22.5° | 799.9 | 820.6 | 844.5 | 886.0 | 966.7 | 1010.0 | 966.7 | 927.9 | 889.2 | 875.6 | 871.1 |
| 25° | 755.3 | 781.9 | 804.4 | 835.5 | 895.0 | 924.8 | 883.3 | 854.9 | 831.0 | 814.8 | 802.6 |
| 27.5° | 730.0 | 753.4 | 759.8 | 774.6 | 825.1 | 851.7 | 831.0 | 819.3 | 804.4 | 789.5 | 774.6 |
| 30° | 702.9 | 698.4 | 688.1 | 689.4 | 730.0 | 756.6 | 755.3 | 758.0 | 756.6 | 752.1 | 749.4 |
| 32.5° | 642.1 | 633.1 | 624.0 | 633.1 | 670.0 | 693.9 | 695.7 | 701.6 | 701.6 | 700.2 | 712.0 |
| 35° | 534.8 | 551.0 | 561.4 | 588.4 | 633.1 | 653.8 | 644.8 | 629.9 | 603.3 | 586.6 | 585.3 |
| 37.5° | 494.6 | 497.3 | 515.4 | 552.3 | 601.9 | 620.9 | 607.8 | 573.5 | 555.5 | 552.3 | 556.9 |
| 40° | 475.2 | 477.9 | 488.3 | 522.6 | 571.7 | 591.1 | 579.4 | 554.2 | 537.5 | 536.1 | 543.8 |
| 42.5° | 461.7 | 464.9 | 470.7 | 494.6 | 534.8 | 558.7 | 560.0 | 542.0 | 522.6 | 524.4 | 531.6 |
| 45° | 454.1 | 455.9 | 454.1 | 466.2 | 503.2 | 531.6 | 543.8 | 531.6 | 515.4 | 518.5 | 527.1 |
| 47.5° | 452.7 | 448.2 | 442.3 | 445.5 | 484.3 | 512.2 | 527.1 | 522.6 | 515.4 | 518.5 | 525.7 |
| 50° | 446.8 | 436.5 | 428.8 | 427.4 | 466.2 | 496.0 | 509.5 | 509.5 | 512.2 | 518.5 | 525.7 |
| 52.5° | 428.8 | 417.1 | 417.1 | 412.6 | 454.1 | 482.5 | 491.5 | 492.8 | 497.3 | 507.7 | 518.5 |
| 55° | 406.7 | 402.2 | 406.7 | 399.0 | 445.5 | 472.1 | 476.6 | 479.8 | 482.5 | 491.5 | 506.4 |
| 57.5° | 387.3 | 381.5 | 391.8 | 388.7 | 437.8 | 461.7 | 461.7 | 467.6 | 467.6 | 479.8 | 491.5 |
| 60° | 376.9 | 364.8 | 369.3 | 372.4 | 427.4 | 452.7 | 450.0 | 455.9 | 458.6 | 469.4 | 477.9 |
| 62.5° | 363.4 | 353.1 | 353.1 | 360.3 | 415.7 | 439.2 | 437.8 | 442.3 | 454.1 | 457.2 | 466.2 |
| 65° | 347.2 | 342.7 | 338.2 | 347.2 | 403.6 | 424.3 | 426.1 | 432.0 | 442.3 | 445.5 | 452.7 |
| 67.5° | 330.5 | 332.3 | 323.3 | 332.3 | 393.2 | 409.4 | 409.4 | 421.6 | 426.1 | 432.0 | 439.2 |
| 70° | 312.9 | 314.3 | 306.6 | 317.4 | 386.0 | 393.2 | 391.8 | 408.1 | 411.2 | 415.7 | 422.9 |
| 72.5° | 290.4 | 290.4 | 287.7 | 302.6 | 373.8 | 376.9 | 373.8 | 387.3 | 388.7 | 393.2 | 396.3 |
| 75° | 266.5 | 266.5 | 263.8 | 284.5 | 366.6 | 358.9 | 349.9 | 360.3 | 363.4 | 366.6 | 366.6 |
| 77.5° | 235.4 | 238.5 | 238.5 | 263.8 | 340.9 | 351.7 | 321.5 | 327.8 | 332.3 | 333.7 | 329.2 |
| 80° | 196.6 | 204.3 | 207.0 | 239.9 | 285.9 | 324.6 | 287.7 | 291.7 | 293.5 | 293.5 | 287.7 |
| 82.5° | 150.6 | 163.7 | 171.3 | 207.0 | 219.1 | 272.3 | 250.2 | 254.8 | 250.2 | 241.2 | 238.5 |
| 85° | 104.2 | 122.2 | 131.2 | 157.8 | 165.5 | 210.1 | 208.3 | 208.3 | 199.7 | 187.6 | 186.2 |
| 87.5° | 56.8 | 67.2 | 73.0 | 93.8 | 113.2 | 141.6 | 153.3 | 148.8 | 141.6 | 133.9 | 135.7 |
| 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):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 9154.1 | 9154.1 | 9154.1 | 9154.1 | 9154.1 | 9154.1 | 9154.1 | 9154.1 | 9154.1 | 9154.1 | 9154.1 |
| 2.5° | 8212.6 | 8415.1 | 8738.4 | 8985.4 | 9234.3 | 9474.2 | 9733.5 | 9931.4 | 10099.6 | 10165.4 | 10364.7 |
| 5° | 6604.3 | 6857.2 | 7162.5 | 7713.5 | 8103.9 | 8534.1 | 9031.9 | 9690.2 | 9943.1 | 10293.5 | 10866.6 |
| 7.5° | 4669.5 | 4898.5 | 5390.0 | 5835.5 | 6388.3 | 6997.4 | 7668.8 | 8577.4 | 8909.7 | 9471.1 | 10404.9 |
| 10° | 3486.8 | 3753.3 | 4147.8 | 4523.4 | 5010.4 | 5633.0 | 6404.5 | 7420.4 | 7823.9 | 8433.1 | 9508.5 |
| 12.5° | 2809.1 | 3123.4 | 3541.8 | 3894.8 | 4271.8 | 4711.0 | 5460.3 | 6574.1 | 7115.1 | 7648.1 | 8735.2 |
| 15° | 2158.0 | 2487.1 | 2876.3 | 3324.5 | 3739.7 | 4213.6 | 4998.6 | 6216.9 | 6839.2 | 7395.1 | 8322.6 |
| 17.5° | 1493.8 | 1775.2 | 2265.3 | 2732.9 | 3264.9 | 3870.9 | 4870.6 | 6292.7 | 7035.8 | 7676.5 | 8394.3 |
| 20° | 1059.2 | 1219.7 | 1621.9 | 2164.3 | 2827.1 | 3587.8 | 4846.7 | 6691.7 | 7658.5 | 8389.8 | 8852.9 |
| 22.5° | 890.5 | 950.0 | 1184.1 | 1681.4 | 2447.0 | 3376.3 | 4930.1 | 7251.8 | 8498.5 | 9432.3 | 9584.2 |
| 25° | 811.6 | 847.7 | 969.4 | 1319.8 | 2108.8 | 3223.0 | 5211.5 | 8085.9 | 9538.2 | 10475.2 | 10448.2 |
| 27.5° | 768.3 | 805.8 | 886.0 | 1114.2 | 1854.5 | 3127.9 | 5492.8 | 9075.2 | 10726.8 | 11607.0 | 11273.3 |
| 30° | 755.3 | 805.8 | 890.5 | 1050.1 | 1672.8 | 2977.3 | 5723.7 | 9943.1 | 11641.2 | 12371.2 | 11648.9 |
| 32.5° | 744.9 | 752.1 | 790.9 | 905.4 | 1499.7 | 2801.4 | 5880.1 | 10722.3 | 12536.3 | 13098.1 | 12189.5 |
| 35° | 601.9 | 638.9 | 701.6 | 811.6 | 1398.7 | 2695.9 | 5880.1 | 11394.1 | 13418.2 | 13832.1 | 12704.9 |
| 37.5° | 579.4 | 612.3 | 667.3 | 761.1 | 1341.9 | 2643.6 | 5762.4 | 12042.1 | 14319.1 | 14664.9 | 13129.2 |
| 40° | 567.7 | 594.3 | 646.6 | 722.3 | 1318.0 | 2584.1 | 5591.1 | 12613.8 | 15199.2 | 15498.6 | 13525.5 |
| 42.5° | 558.7 | 582.6 | 631.7 | 698.4 | 1286.9 | 2518.7 | 5452.7 | 13072.4 | 15963.5 | 16210.6 | 13903.8 |
| 45° | 554.2 | 579.4 | 633.1 | 710.6 | 1224.2 | 2432.1 | 5406.7 | 13568.4 | 16592.1 | 16804.9 | 14313.2 |
| 47.5° | 554.2 | 583.9 | 640.3 | 735.9 | 1149.8 | 2342.9 | 5551.0 | 14222.6 | 17186.3 | 17290.5 | 14795.7 |
| 50° | 549.6 | 582.6 | 661.5 | 710.6 | 1041.1 | 2229.7 | 5890.5 | 15045.9 | 17829.8 | 17841.5 | 15406.7 |
| 52.5° | 540.6 | 579.4 | 712.0 | 695.7 | 915.8 | 2080.9 | 6349.5 | 16103.7 | 18781.6 | 18852.8 | 16362.6 |
| 55° | 530.3 | 574.9 | 698.4 | 661.5 | 813.4 | 1903.7 | 6724.7 | 17388.8 | 20119.0 | 20316.9 | 17768.9 |
| 57.5° | 516.7 | 569.0 | 676.3 | 613.7 | 746.2 | 1675.5 | 6860.4 | 18330.3 | 21052.8 | 21550.1 | 19353.3 |
| 60° | 505.0 | 564.5 | 610.5 | 585.3 | 704.3 | 1483.4 | 6598.0 | 18144.0 | 20988.7 | 22061.0 | 20757.9 |
| 62.5° | 492.8 | 569.0 | 556.9 | 567.7 | 684.9 | 1359.9 | 5913.0 | 16652.9 | 19926.9 | 21533.9 | 21799.0 |
| 65° | 479.8 | 528.9 | 525.7 | 552.3 | 680.9 | 1310.8 | 4901.7 | 14417.4 | 17874.4 | 19867.4 | 22044.7 |
| 67.5° | 461.7 | 488.3 | 503.2 | 533.4 | 695.7 | 1267.5 | 3955.7 | 11892.8 | 15022.0 | 17369.4 | 20763.7 |
| 70° | 442.3 | 464.9 | 481.1 | 509.5 | 686.7 | 1248.1 | 3290.2 | 9378.6 | 11919.9 | 14235.7 | 18236.5 |
| 72.5° | 417.1 | 436.5 | 451.3 | 477.9 | 677.7 | 1237.7 | 2779.3 | 7553.0 | 8899.3 | 10574.9 | 14827.3 |
| 75° | 387.3 | 404.9 | 415.7 | 442.3 | 649.3 | 1133.6 | 2185.0 | 6391.0 | 6659.3 | 7356.4 | 11809.4 |
| 77.5° | 353.1 | 366.6 | 375.1 | 404.9 | 574.9 | 942.8 | 1580.4 | 4930.1 | 5171.3 | 5340.9 | 9054.0 |
| 80° | 312.9 | 326.0 | 330.5 | 358.9 | 476.6 | 737.2 | 1030.7 | 3641.4 | 3867.8 | 3906.6 | 5913.0 |
| 82.5° | 266.5 | 280.0 | 280.0 | 306.6 | 390.0 | 530.3 | 676.3 | 2494.8 | 2539.4 | 2670.7 | 4179.4 |
| 85° | 214.6 | 225.0 | 225.0 | 238.5 | 302.6 | 396.3 | 464.9 | 1252.6 | 1239.1 | 1414.9 | 3620.7 |
| 87.5° | 153.3 | 161.0 | 168.2 | 171.3 | 216.0 | 262.0 | 280.0 | 381.5 | 251.6 | 289.0 | 2324.8 |
| 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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| 2.5° | 10515.3 | 10600.1 | 10513.5 | 10451.3 | 10181.7 | 9959.8 | 9663.1 | 9511.2 |
| 5° | 11303.1 | 11519.0 | 11446.0 | 11184.0 | 10620.8 | 9987.8 | 9268.6 | 8944.0 |
| 7.5° | 11207.9 | 11709.8 | 11721.5 | 11231.8 | 10402.2 | 9469.7 | 8495.8 | 8034.1 |
| 10° | 10466.2 | 11107.8 | 11291.3 | 10816.1 | 9935.9 | 8893.5 | 7776.1 | 7249.0 |
| 12.5° | 9637.9 | 10266.4 | 10406.7 | 10242.5 | 9507.1 | 8459.7 | 7326.6 | 6809.4 |
| 15° | 8960.2 | 9242.0 | 9408.4 | 9551.8 | 9139.2 | 8287.0 | 7300.9 | 6733.7 |
| 17.5° | 8547.6 | 8516.5 | 8564.3 | 8812.8 | 8882.6 | 8485.0 | 7688.2 | 7062.8 |
| 20° | 8398.8 | 7920.9 | 7908.7 | 8251.4 | 8762.3 | 8957.5 | 8444.8 | 7694.1 |
| 22.5° | 8480.9 | 7706.3 | 7608.0 | 8014.7 | 8826.3 | 9637.9 | 9436.8 | 8580.5 |
| 25° | 8763.6 | 7724.3 | 7644.9 | 8038.6 | 9058.5 | 10363.4 | 10507.7 | 9727.2 |
| 27.5° | 9209.1 | 7837.5 | 7732.9 | 8136.9 | 9366.9 | 10972.5 | 11562.3 | 10838.6 |
| 30° | 9632.0 | 8034.1 | 7904.2 | 8330.3 | 9648.3 | 11213.8 | 12208.9 | 11705.2 |
| 32.5° | 10146.1 | 8402.0 | 8173.8 | 8686.1 | 9996.8 | 11597.9 | 12785.1 | 12423.1 |
| 35° | 10649.3 | 8925.9 | 8643.2 | 9235.7 | 10385.5 | 12076.3 | 13443.5 | 13340.6 |
| 37.5° | 11202.1 | 9611.3 | 9377.3 | 9946.3 | 10917.5 | 12527.2 | 14283.5 | 14416.0 |
| 40° | 11791.8 | 10519.8 | 10242.5 | 10982.9 | 11742.7 | 13093.6 | 15160.9 | 15479.2 |
| 42.5° | 12386.1 | 11528.0 | 11197.5 | 11947.8 | 12649.4 | 13651.8 | 15911.2 | 16383.7 |
| 45° | 13066.5 | 12622.8 | 12466.4 | 13278.0 | 13521.0 | 14183.8 | 16465.4 | 17052.4 |
| 47.5° | 13859.2 | 13865.0 | 14116.6 | 14441.3 | 14399.8 | 14785.3 | 17022.7 | 17649.4 |
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| 55° | 17284.6 | 19233.0 | 19916.5 | 19815.1 | 17402.3 | 17296.4 | 20545.1 | 20854.8 |
| 57.5° | 18893.0 | 21134.8 | 21763.4 | 21307.5 | 18748.7 | 18476.3 | 21806.7 | 21872.0 |
| 60° | 20306.5 | 22642.2 | 23193.2 | 22688.2 | 20107.2 | 19731.6 | 22594.4 | 22276.9 |
| 62.5° | 21092.9 | 23153.0 | 23540.4 | 22996.6 | 21037.9 | 21069.0 | 22767.1 | 22058.3 |
| 65° | 20741.6 | 21861.7 | 21986.6 | 21941.9 | 20798.0 | 21845.0 | 22146.2 | 21046.9 |
| 67.5° | 18817.2 | 18596.7 | 18806.9 | 19097.2 | 18742.8 | 20823.3 | 20425.6 | 18843.8 |
| 70° | 15427.4 | 14216.3 | 14635.2 | 14830.0 | 14990.9 | 17919.0 | 17728.3 | 15348.5 |
| 72.5° | 11626.3 | 9959.8 | 10290.3 | 10250.2 | 10994.6 | 14372.7 | 13787.5 | 11285.5 |
| 75° | 8237.9 | 6753.1 | 6794.5 | 6778.3 | 7672.0 | 11244.9 | 9983.7 | 7721.1 |
| 77.5° | 5763.8 | 4892.7 | 4915.2 | 5007.2 | 5157.8 | 8480.9 | 7132.7 | 5640.3 |
| 80° | 3963.4 | 3713.1 | 3836.7 | 3844.3 | 3574.7 | 5697.1 | 5269.6 | 4526.5 |
| 82.5° | 2952.0 | 2580.9 | 2551.2 | 2594.5 | 2801.4 | 4615.8 | 4049.5 | 3139.6 |
| 85° | 2417.3 | 1528.1 | 1228.7 | 1540.3 | 2482.6 | 4571.2 | 2690.0 | 1656.1 |
| 87.5° | 1361.3 | 725.5 | 327.8 | 607.8 | 990.6 | 3026.4 | 777.3 | 211.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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