

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: P268694

Luminaire Tested: **GAN-AF-07-LED-U-SLR-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-SLR-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21179.4 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - 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: 28.75 FT

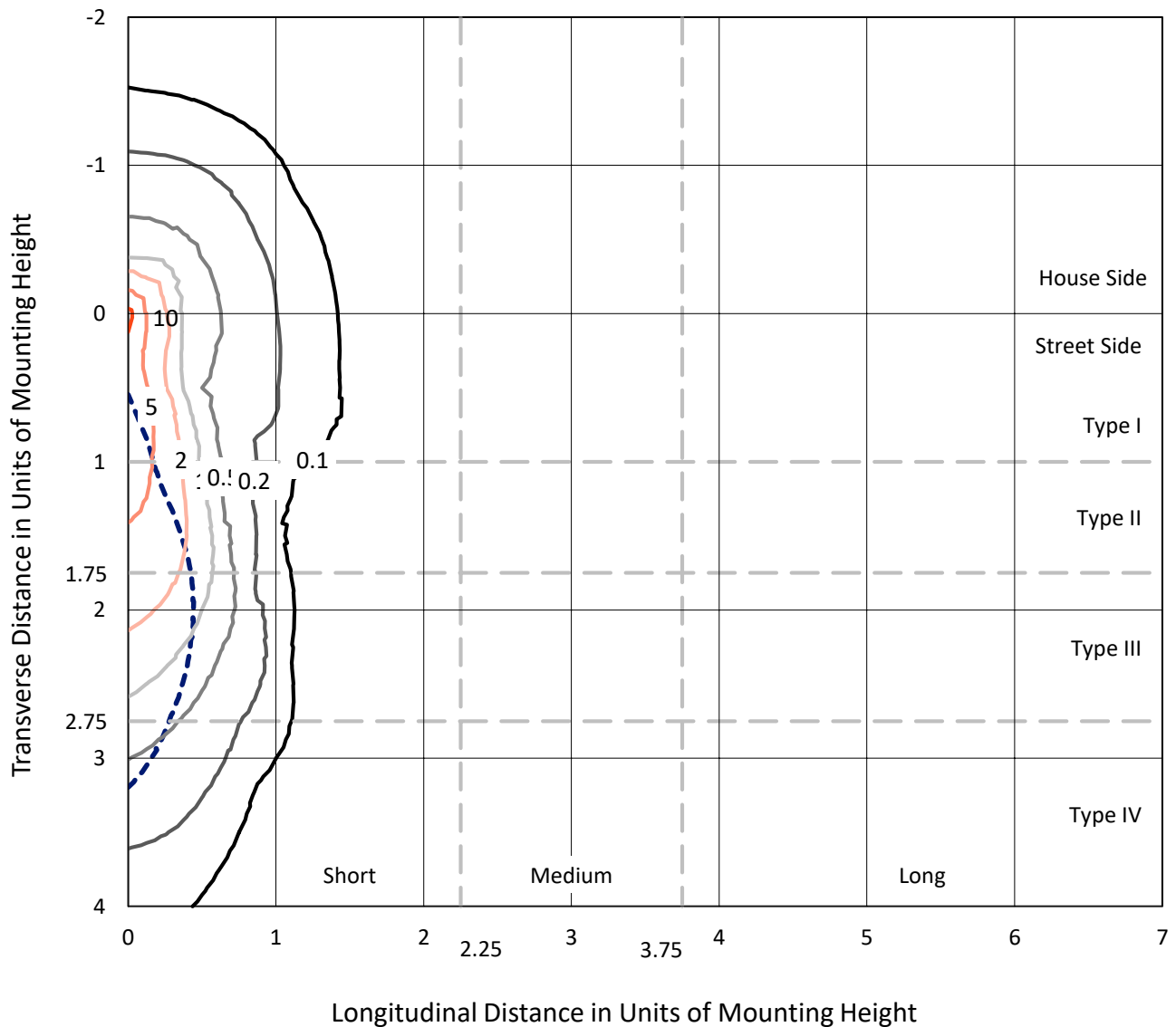


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

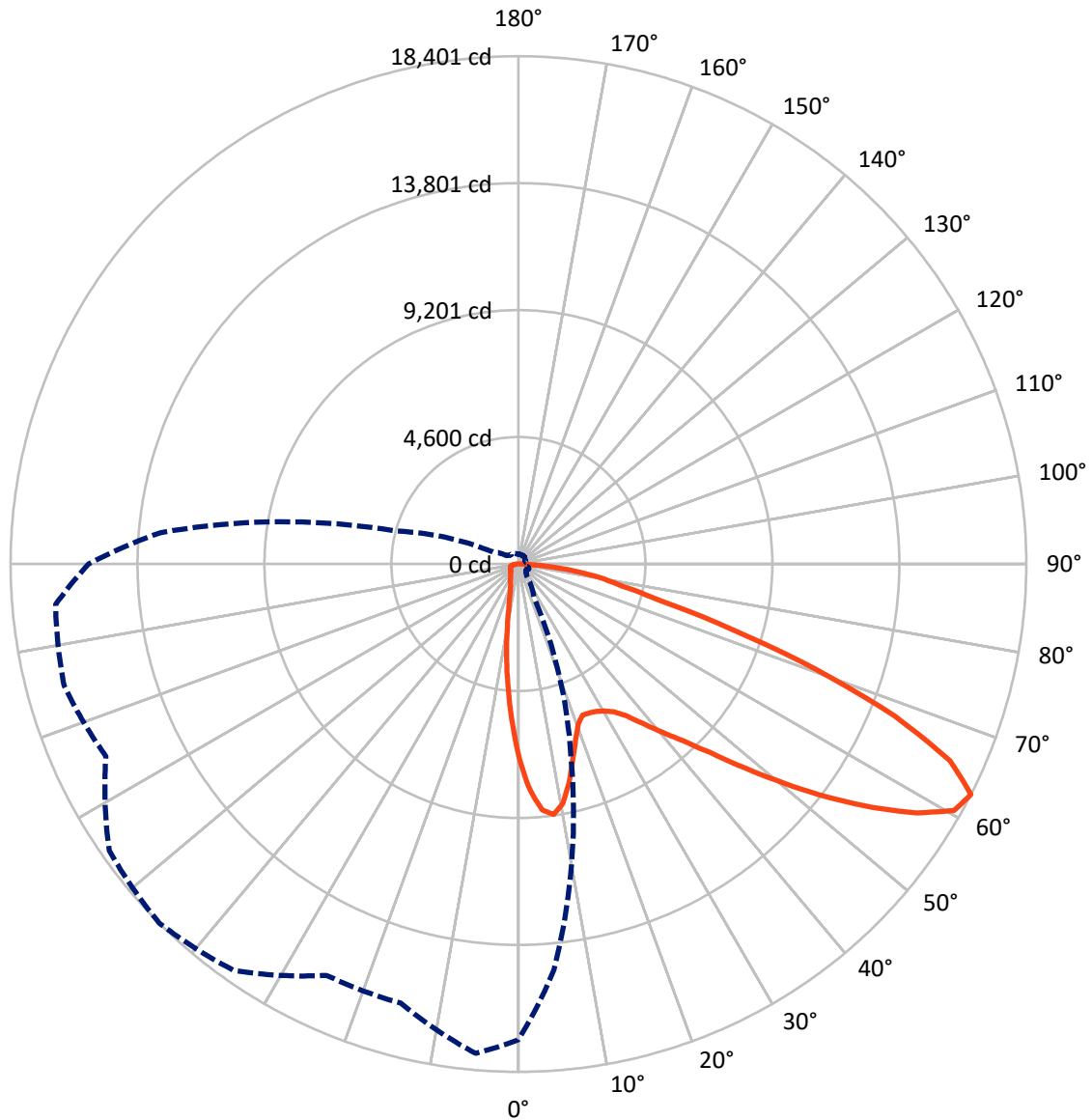


Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Short - Non-Cutoff

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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 | 3504.9 | 0.0 | 3504.9 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 17674.5 | 0.0 | 17674.5 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 21179.4 | 0.0 | 21179.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 520.9 | 2.5 |
| 10°-20° | 955.2 | 4.5 |
| 20°-30° | 1392.6 | 6.6 |
| 30°-40° | 2144.9 | 10.1 |
| 40°-50° | 3156.7 | 14.9 |
| 50°-60° | 4630.2 | 21.9 |
| 60°-70° | 5175.9 | 24.4 |
| 70°-80° | 2534.0 | 12.0 |
| 80°-90° | 669.0 | 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° | 21179.4 | 100.0 |
| 0°-180° | 21179.4 | 100.0 |

Coefficient of Utilization



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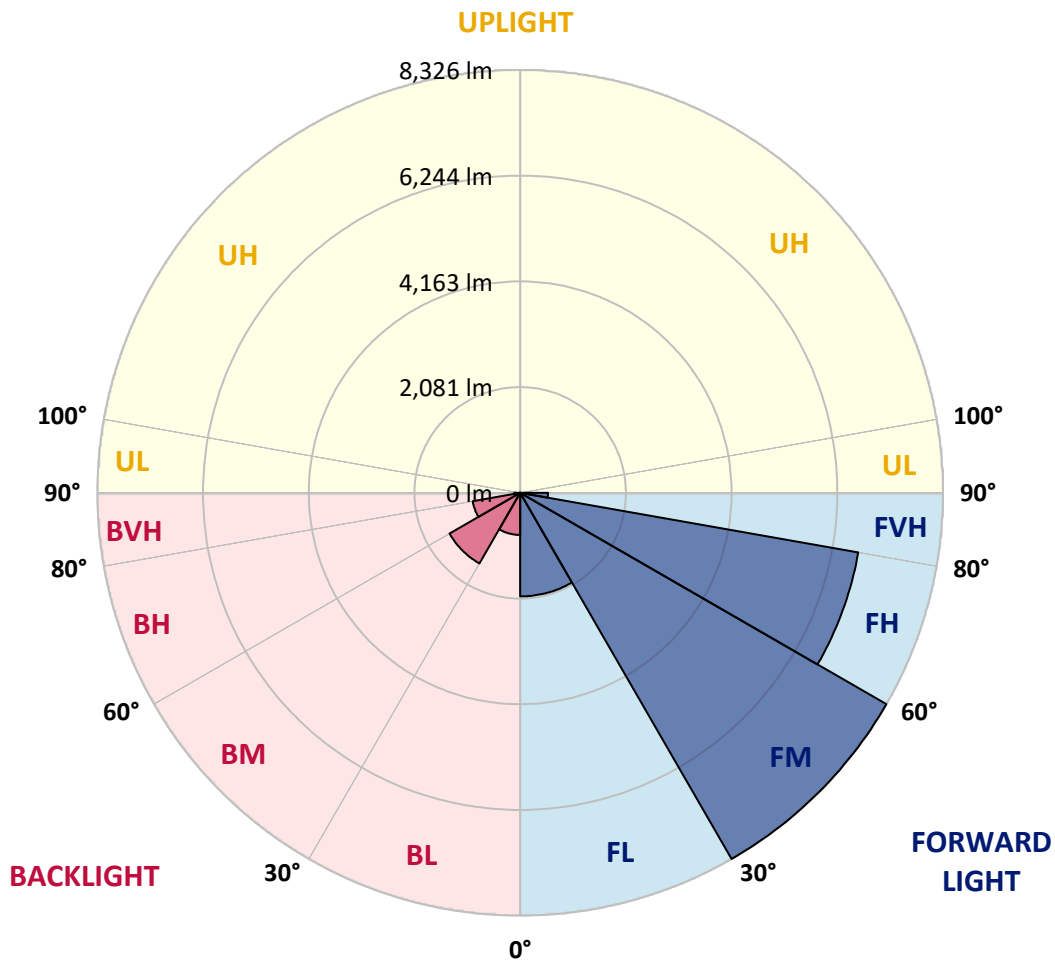
CATALOG NUMBER: GAN-AF-07-LED-U-SLR-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2039.5 | 9.6 | | | |
| FM | (30°-60°) | 8325.8 | 39.3 | | | |
| FH | (60°-80°) | 6759.7 | 31.9 | | | G3/7500 |
| FVH | (80°-90°) | 549.5 | 2.6 | | | G4/750 |
| BL | (0°-30°) | 829.2 | 3.9 | B2/1000 | | |
| BM | (30°-60°) | 1605.9 | 7.6 | B2/2500 | | |
| BH | (60°-80°) | 950.2 | 4.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 119.6 | 0.6 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7155.4 | 7155.4 | 7155.4 | 7155.4 | 7155.4 | 7155.4 | 7155.4 | 7155.4 | 7155.4 | 7155.4 | 7155.4 |
| 2.5° | 7434.9 | 7283.5 | 7032.1 | 6770.2 | 6610.6 | 6424.4 | 6278.9 | 6150.8 | 5894.7 | 5844.6 | 5889.9 |
| 5° | 6991.4 | 6687.5 | 6213.7 | 5736.2 | 5418.4 | 5077.3 | 4812.0 | 4598.9 | 4274.0 | 4217.0 | 4285.6 |
| 7.5° | 6280.1 | 5916.7 | 5290.4 | 4681.4 | 4232.1 | 3805.9 | 3519.6 | 3291.4 | 3037.6 | 2928.1 | 2935.1 |
| 10° | 5666.5 | 5256.6 | 4516.1 | 3853.6 | 3485.9 | 3198.2 | 2957.2 | 2723.2 | 2465.8 | 2297.1 | 2250.6 |
| 12.5° | 5322.9 | 4851.4 | 3998.0 | 3406.6 | 3065.5 | 2762.7 | 2503.1 | 2252.8 | 1978.1 | 1805.8 | 1756.8 |
| 15° | 5263.6 | 4751.3 | 3803.7 | 3120.3 | 2692.8 | 2309.9 | 2003.7 | 1724.2 | 1441.3 | 1301.6 | 1272.4 |
| 17.5° | 5521.0 | 4930.6 | 3740.7 | 2865.2 | 2342.5 | 1869.8 | 1493.7 | 1181.7 | 951.1 | 881.3 | 875.5 |
| 20° | 6014.5 | 5275.2 | 3732.5 | 2625.3 | 1996.8 | 1442.5 | 1040.9 | 813.9 | 712.5 | 692.8 | 693.9 |
| 22.5° | 6707.4 | 5809.7 | 3832.8 | 2444.9 | 1678.8 | 1075.8 | 782.3 | 681.0 | 641.5 | 622.9 | 622.9 |
| 25° | 7603.8 | 6545.5 | 4063.3 | 2313.3 | 1403.0 | 859.1 | 690.3 | 629.8 | 592.6 | 579.8 | 582.1 |
| 27.5° | 8472.4 | 7261.4 | 4331.1 | 2209.8 | 1222.5 | 780.1 | 654.3 | 599.6 | 567.0 | 554.2 | 560.1 |
| 30° | 9150.0 | 7897.2 | 4554.5 | 2068.8 | 1130.4 | 757.9 | 667.1 | 611.2 | 564.7 | 544.9 | 546.0 |
| 32.5° | 9711.0 | 8453.7 | 4742.1 | 1967.6 | 1049.0 | 649.7 | 575.2 | 550.8 | 544.9 | 521.6 | 510.0 |
| 35° | 10428.2 | 9060.2 | 4867.7 | 1970.0 | 1010.6 | 579.8 | 512.3 | 469.2 | 437.7 | 411.0 | 411.0 |
| 37.5° | 11268.9 | 9756.5 | 5001.7 | 1996.8 | 996.6 | 539.1 | 490.1 | 447.0 | 418.0 | 392.4 | 387.7 |
| 40° | 12100.2 | 10438.8 | 5123.9 | 2022.4 | 988.5 | 514.5 | 472.7 | 433.2 | 406.4 | 380.7 | 373.8 |
| 42.5° | 12806.9 | 10999.9 | 5233.3 | 2035.1 | 960.5 | 512.3 | 459.9 | 423.8 | 398.2 | 370.2 | 363.3 |
| 45° | 13329.6 | 11470.3 | 5350.9 | 2055.0 | 932.6 | 521.6 | 459.9 | 422.7 | 391.2 | 364.4 | 357.4 |
| 47.5° | 13796.4 | 12022.1 | 5547.8 | 2055.0 | 898.8 | 504.0 | 475.1 | 423.8 | 390.0 | 362.0 | 356.3 |
| 50° | 14421.7 | 12778.8 | 5920.3 | 2007.3 | 851.1 | 485.5 | 500.6 | 419.1 | 379.5 | 357.4 | 350.5 |
| 52.5° | 15283.3 | 13748.6 | 6511.8 | 1924.4 | 777.8 | 449.4 | 497.1 | 416.9 | 369.1 | 345.8 | 337.7 |
| 55° | 16301.9 | 14787.3 | 7156.6 | 1828.0 | 668.2 | 423.8 | 479.6 | 411.0 | 357.4 | 331.8 | 323.7 |
| 57.5° | 17097.1 | 15502.1 | 7610.8 | 1678.8 | 572.8 | 409.8 | 425.0 | 405.1 | 343.4 | 316.7 | 309.6 |
| 60° | 17413.9 | 15474.2 | 7735.3 | 1479.8 | 526.2 | 398.2 | 371.4 | 454.1 | 331.8 | 305.1 | 296.9 |
| 62.5° | 17242.6 | 14759.3 | 7386.0 | 1340.0 | 515.7 | 383.0 | 348.2 | 420.2 | 322.5 | 296.9 | 285.2 |
| 65° | 16452.2 | 13492.6 | 6460.5 | 1302.8 | 546.0 | 367.9 | 333.0 | 329.5 | 309.6 | 285.2 | 273.7 |
| 67.5° | 14730.1 | 11599.5 | 5172.8 | 1306.2 | 584.4 | 352.8 | 317.8 | 301.6 | 292.2 | 272.5 | 261.9 |
| 70° | 11997.8 | 9170.8 | 3856.1 | 1315.6 | 604.3 | 335.2 | 301.6 | 284.0 | 273.7 | 253.9 | 246.9 |
| 72.5° | 8821.5 | 7068.3 | 2801.3 | 1255.1 | 607.8 | 315.6 | 279.5 | 264.3 | 253.9 | 232.8 | 227.0 |
| 75° | 6035.5 | 5406.8 | 1943.2 | 1039.7 | 529.7 | 287.5 | 254.9 | 240.9 | 234.0 | 208.3 | 205.0 |
| 77.5° | 4409.1 | 4058.6 | 1243.4 | 772.0 | 408.6 | 252.7 | 224.7 | 214.2 | 209.6 | 181.6 | 177.0 |
| 80° | 3538.2 | 3211.0 | 777.8 | 528.6 | 299.2 | 211.9 | 188.6 | 182.7 | 178.1 | 150.1 | 146.8 |
| 82.5° | 2454.3 | 2150.5 | 499.5 | 343.4 | 224.7 | 164.2 | 148.9 | 146.8 | 139.6 | 114.2 | 110.6 |
| 85° | 1294.6 | 1167.7 | 316.7 | 234.0 | 163.0 | 112.9 | 103.7 | 103.7 | 100.2 | 75.6 | 73.3 |
| 87.5° | 165.3 | 269.0 | 160.6 | 122.3 | 89.7 | 50.0 | 50.0 | 48.9 | 52.5 | 43.1 | 37.3 |
| 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° | 7155.4 | 7155.4 | 7155.4 | 7155.4 | 7155.4 | 7155.4 | 7155.4 | 7155.4 | 7155.4 | 7155.4 | 7155.4 |
| 2.5° | 5782.8 | 5838.8 | 5785.3 | 5788.7 | 5848.1 | 6025.0 | 6105.4 | 6171.7 | 6242.7 | 6289.4 | 6310.2 |
| 5° | 4191.3 | 4321.7 | 4365.9 | 4459.0 | 4596.4 | 4822.5 | 4912.0 | 4977.1 | 5020.3 | 5045.9 | 5056.4 |
| 7.5° | 2866.4 | 2945.6 | 3034.0 | 3184.2 | 3483.4 | 3616.1 | 3675.5 | 3660.5 | 3611.5 | 3594.1 | 3576.6 |
| 10° | 2160.9 | 2129.4 | 2113.2 | 2195.7 | 2438.0 | 2571.8 | 2613.8 | 2573.0 | 2546.2 | 2552.1 | 2581.2 |
| 12.5° | 1674.3 | 1619.5 | 1553.1 | 1543.7 | 1703.2 | 1823.2 | 1850.0 | 1852.3 | 1901.3 | 1944.3 | 2008.3 |
| 15° | 1220.2 | 1214.2 | 1181.7 | 1162.0 | 1252.7 | 1350.5 | 1362.2 | 1383.1 | 1427.3 | 1458.8 | 1514.7 |
| 17.5° | 860.3 | 891.7 | 917.3 | 930.3 | 998.9 | 1068.9 | 1056.0 | 1045.4 | 1037.4 | 1037.4 | 1064.1 |
| 20° | 693.9 | 714.8 | 747.5 | 784.7 | 854.6 | 903.4 | 872.1 | 830.2 | 799.9 | 790.5 | 794.0 |
| 22.5° | 625.2 | 641.5 | 660.2 | 692.8 | 755.7 | 789.4 | 755.7 | 725.3 | 695.1 | 684.6 | 681.0 |
| 25° | 590.2 | 611.2 | 628.8 | 653.2 | 699.7 | 723.0 | 690.3 | 668.2 | 649.7 | 636.9 | 627.6 |
| 27.5° | 570.6 | 589.1 | 593.8 | 605.4 | 645.1 | 666.0 | 649.7 | 640.3 | 628.8 | 617.0 | 605.4 |
| 30° | 549.6 | 546.0 | 537.8 | 539.1 | 570.6 | 591.4 | 590.2 | 592.6 | 591.4 | 587.9 | 585.6 |
| 32.5° | 501.9 | 494.7 | 487.8 | 494.7 | 523.9 | 542.5 | 543.7 | 548.3 | 548.3 | 547.2 | 556.5 |
| 35° | 418.0 | 430.7 | 438.9 | 459.9 | 494.7 | 511.1 | 504.0 | 492.5 | 471.5 | 458.8 | 457.5 |
| 37.5° | 386.5 | 388.8 | 402.8 | 431.9 | 470.4 | 485.5 | 475.1 | 448.3 | 434.3 | 431.9 | 435.4 |
| 40° | 371.4 | 373.8 | 381.9 | 408.6 | 447.0 | 462.2 | 452.8 | 433.2 | 420.2 | 419.1 | 425.0 |
| 42.5° | 360.8 | 363.3 | 367.9 | 386.5 | 418.0 | 436.5 | 437.7 | 423.8 | 408.6 | 409.8 | 415.6 |
| 45° | 355.1 | 356.3 | 355.1 | 364.4 | 393.5 | 415.6 | 425.0 | 415.6 | 402.8 | 405.1 | 412.1 |
| 47.5° | 353.9 | 350.5 | 345.8 | 348.2 | 378.4 | 400.6 | 412.1 | 408.6 | 402.8 | 405.1 | 411.0 |
| 50° | 349.4 | 341.1 | 335.2 | 334.1 | 364.4 | 387.7 | 398.2 | 398.2 | 400.6 | 405.1 | 411.0 |
| 52.5° | 335.2 | 325.9 | 325.9 | 322.5 | 355.1 | 377.2 | 384.2 | 385.4 | 388.8 | 397.1 | 405.1 |
| 55° | 317.8 | 314.3 | 317.8 | 312.0 | 348.2 | 369.1 | 372.5 | 375.0 | 377.2 | 384.2 | 395.9 |
| 57.5° | 302.6 | 298.1 | 306.2 | 303.8 | 342.3 | 360.8 | 360.8 | 365.6 | 365.6 | 375.0 | 384.2 |
| 60° | 294.6 | 285.2 | 288.7 | 291.1 | 334.1 | 353.9 | 351.5 | 356.3 | 358.7 | 366.8 | 373.8 |
| 62.5° | 284.0 | 275.9 | 275.9 | 281.8 | 324.8 | 343.4 | 342.3 | 345.8 | 355.1 | 357.4 | 364.4 |
| 65° | 271.3 | 267.8 | 264.3 | 271.3 | 315.6 | 331.8 | 333.0 | 337.7 | 345.8 | 348.2 | 353.9 |
| 67.5° | 258.4 | 259.6 | 252.7 | 259.6 | 307.4 | 320.2 | 320.2 | 329.5 | 333.0 | 337.7 | 343.4 |
| 70° | 244.5 | 245.6 | 239.8 | 248.0 | 301.6 | 307.4 | 306.2 | 319.0 | 321.4 | 324.8 | 330.7 |
| 72.5° | 227.0 | 227.0 | 224.7 | 236.3 | 292.2 | 294.6 | 292.2 | 302.6 | 303.8 | 307.4 | 309.6 |
| 75° | 208.3 | 208.3 | 206.2 | 222.4 | 286.4 | 280.6 | 273.7 | 281.8 | 284.0 | 286.4 | 286.4 |
| 77.5° | 184.0 | 186.3 | 186.3 | 206.2 | 266.5 | 274.7 | 251.4 | 256.1 | 259.6 | 260.8 | 257.4 |
| 80° | 153.7 | 159.4 | 161.9 | 187.4 | 223.6 | 253.9 | 224.7 | 228.2 | 229.3 | 229.3 | 224.7 |
| 82.5° | 117.6 | 128.1 | 133.8 | 161.9 | 171.1 | 213.1 | 195.7 | 199.1 | 195.7 | 188.6 | 186.3 |
| 85° | 81.4 | 95.5 | 102.4 | 123.3 | 129.3 | 164.2 | 163.0 | 163.0 | 156.0 | 146.8 | 145.5 |
| 87.5° | 44.2 | 52.5 | 57.0 | 73.3 | 88.6 | 110.6 | 120.0 | 116.4 | 110.6 | 104.8 | 105.9 |
| 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° | 7155.4 | 7155.4 | 7155.4 | 7155.4 | 7155.4 | 7155.4 | 7155.4 | 7155.4 | 7155.4 | 7155.4 | 7155.4 |
| 2.5° | 6419.7 | 6578.1 | 6830.7 | 7023.9 | 7218.4 | 7405.8 | 7608.5 | 7763.3 | 7894.8 | 7946.0 | 8102.2 |
| 5° | 5162.3 | 5360.2 | 5599.0 | 6029.8 | 6334.8 | 6671.3 | 7060.0 | 7574.7 | 7772.6 | 8046.2 | 8494.5 |
| 7.5° | 3650.0 | 3829.3 | 4213.5 | 4561.6 | 4993.5 | 5469.7 | 5994.7 | 6704.9 | 6964.6 | 7403.6 | 8133.6 |
| 10° | 2725.5 | 2934.0 | 3242.4 | 3535.9 | 3916.6 | 4403.2 | 5006.3 | 5800.4 | 6115.8 | 6592.0 | 7432.7 |
| 12.5° | 2195.7 | 2441.5 | 2768.5 | 3044.5 | 3339.1 | 3682.5 | 4268.1 | 5139.1 | 5561.6 | 5978.5 | 6828.3 |
| 15° | 1686.9 | 1944.3 | 2248.2 | 2598.6 | 2923.4 | 3293.6 | 3907.3 | 4859.7 | 5346.4 | 5780.6 | 6505.9 |
| 17.5° | 1167.7 | 1387.8 | 1770.9 | 2136.3 | 2552.1 | 3025.9 | 3807.1 | 4918.9 | 5500.0 | 6000.6 | 6561.8 |
| 20° | 827.8 | 953.6 | 1267.9 | 1691.7 | 2209.8 | 2804.7 | 3788.5 | 5231.0 | 5986.7 | 6558.3 | 6920.4 |
| 22.5° | 696.2 | 742.8 | 925.7 | 1314.4 | 1912.9 | 2639.4 | 3853.6 | 5668.8 | 6643.2 | 7373.3 | 7492.0 |
| 25° | 634.6 | 662.5 | 757.9 | 1031.6 | 1648.6 | 2519.4 | 4073.8 | 6320.7 | 7455.9 | 8188.2 | 8167.3 |
| 27.5° | 600.7 | 629.8 | 692.8 | 870.8 | 1449.5 | 2444.9 | 4293.8 | 7093.8 | 8385.0 | 9073.2 | 8812.3 |
| 30° | 590.2 | 629.8 | 696.2 | 820.8 | 1307.5 | 2327.4 | 4474.3 | 7772.6 | 9099.8 | 9670.3 | 9105.7 |
| 32.5° | 582.1 | 587.9 | 618.3 | 707.9 | 1172.4 | 2190.0 | 4596.4 | 8381.5 | 9799.6 | 10238.5 | 9528.3 |
| 35° | 470.4 | 499.5 | 548.3 | 634.6 | 1093.2 | 2107.3 | 4596.4 | 8906.5 | 10488.8 | 10812.4 | 9931.1 |
| 37.5° | 452.8 | 478.4 | 521.6 | 594.9 | 1049.0 | 2066.6 | 4504.6 | 9413.0 | 11193.2 | 11463.4 | 10263.0 |
| 40° | 443.7 | 464.6 | 505.2 | 564.7 | 1030.4 | 2020.0 | 4370.7 | 9860.2 | 11881.3 | 12115.4 | 10572.6 |
| 42.5° | 436.5 | 455.3 | 493.7 | 546.0 | 1005.9 | 1968.7 | 4262.4 | 10218.7 | 12478.5 | 12671.9 | 10868.4 |
| 45° | 433.2 | 452.8 | 494.7 | 555.3 | 957.1 | 1901.3 | 4226.3 | 10606.4 | 12969.9 | 13136.4 | 11188.5 |
| 47.5° | 433.2 | 456.3 | 500.6 | 575.2 | 898.8 | 1831.4 | 4339.3 | 11117.6 | 13434.4 | 13515.9 | 11565.8 |
| 50° | 429.6 | 455.3 | 517.0 | 555.3 | 813.9 | 1742.9 | 4604.6 | 11761.4 | 13937.4 | 13946.6 | 12043.0 |
| 52.5° | 422.7 | 452.8 | 556.5 | 543.7 | 715.9 | 1626.6 | 4963.2 | 12587.9 | 14681.3 | 14737.2 | 12790.5 |
| 55° | 414.5 | 449.4 | 546.0 | 517.0 | 635.7 | 1488.0 | 5256.6 | 13592.8 | 15726.7 | 15881.7 | 13889.7 |
| 57.5° | 404.0 | 444.8 | 528.6 | 479.6 | 583.3 | 1309.8 | 5362.6 | 14328.5 | 16456.8 | 16845.6 | 15128.4 |
| 60° | 394.6 | 441.2 | 477.4 | 457.5 | 550.8 | 1159.6 | 5157.7 | 14183.0 | 16406.7 | 17245.0 | 16226.3 |
| 62.5° | 385.4 | 444.8 | 435.4 | 443.7 | 535.6 | 1063.0 | 4622.0 | 13017.6 | 15576.6 | 16832.9 | 17040.0 |
| 65° | 375.0 | 413.3 | 411.0 | 431.9 | 532.1 | 1024.5 | 3831.6 | 11270.0 | 13972.2 | 15530.1 | 17232.1 |
| 67.5° | 360.8 | 381.9 | 393.5 | 416.9 | 543.7 | 990.8 | 3092.2 | 9296.6 | 11742.7 | 13577.6 | 16230.9 |
| 70° | 345.8 | 363.3 | 376.1 | 398.2 | 536.7 | 975.6 | 2571.8 | 7331.3 | 9317.6 | 11128.1 | 14255.3 |
| 72.5° | 325.9 | 341.1 | 352.8 | 373.8 | 529.7 | 967.6 | 2172.6 | 5904.0 | 6956.5 | 8266.3 | 11590.2 |
| 75° | 302.6 | 316.7 | 324.8 | 345.8 | 507.6 | 886.0 | 1707.9 | 4995.8 | 5205.4 | 5750.3 | 9231.4 |
| 77.5° | 275.9 | 286.4 | 293.3 | 316.7 | 449.4 | 737.0 | 1235.3 | 3853.6 | 4042.4 | 4175.1 | 7077.6 |
| 80° | 244.5 | 254.9 | 258.4 | 280.6 | 372.5 | 576.4 | 805.7 | 2846.5 | 3023.5 | 3053.9 | 4622.0 |
| 82.5° | 208.3 | 218.8 | 218.8 | 239.8 | 305.1 | 414.5 | 528.6 | 1950.1 | 1985.1 | 2087.5 | 3267.0 |
| 85° | 167.7 | 175.8 | 175.8 | 186.3 | 236.3 | 309.6 | 363.3 | 979.2 | 968.6 | 1106.1 | 2830.3 |
| 87.5° | 120.0 | 125.8 | 131.5 | 133.8 | 168.8 | 205.0 | 218.8 | 298.1 | 196.8 | 225.8 | 1817.5 |
| 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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| 35° | 8324.5 | 6977.5 | 6756.2 | 7219.6 | 8118.4 | 9439.7 | 10508.6 | 10428.2 |
| 37.5° | 8756.4 | 7513.0 | 7330.2 | 7774.9 | 8534.0 | 9792.7 | 11165.3 | 11268.9 |
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| 42.5° | 9682.0 | 9011.3 | 8752.9 | 9339.7 | 9888.1 | 10671.7 | 12437.8 | 12806.9 |
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| 75° | 6439.5 | 5278.8 | 5311.4 | 5298.6 | 5997.2 | 8790.2 | 7804.0 | 6035.5 |
| 77.5° | 4505.7 | 3824.7 | 3842.1 | 3914.3 | 4031.9 | 6629.3 | 5575.6 | 4409.1 |
| 80° | 3098.1 | 2902.6 | 2999.1 | 3005.0 | 2794.2 | 4453.3 | 4119.2 | 3538.2 |
| 82.5° | 2307.6 | 2017.7 | 1994.3 | 2028.2 | 2190.0 | 3608.0 | 3165.6 | 2454.3 |
| 85° | 1889.6 | 1194.6 | 960.5 | 1203.9 | 1940.8 | 3573.1 | 2102.7 | 1294.6 |
| 87.5° | 1064.1 | 567.0 | 256.1 | 475.1 | 774.2 | 2365.7 | 607.8 | 165.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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