

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: P267336

Luminaire Tested: **GAN-AF-10-LED-U-SLR-7027-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267336
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-10-LED-U-SLR-7027-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA 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: 44984.2 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

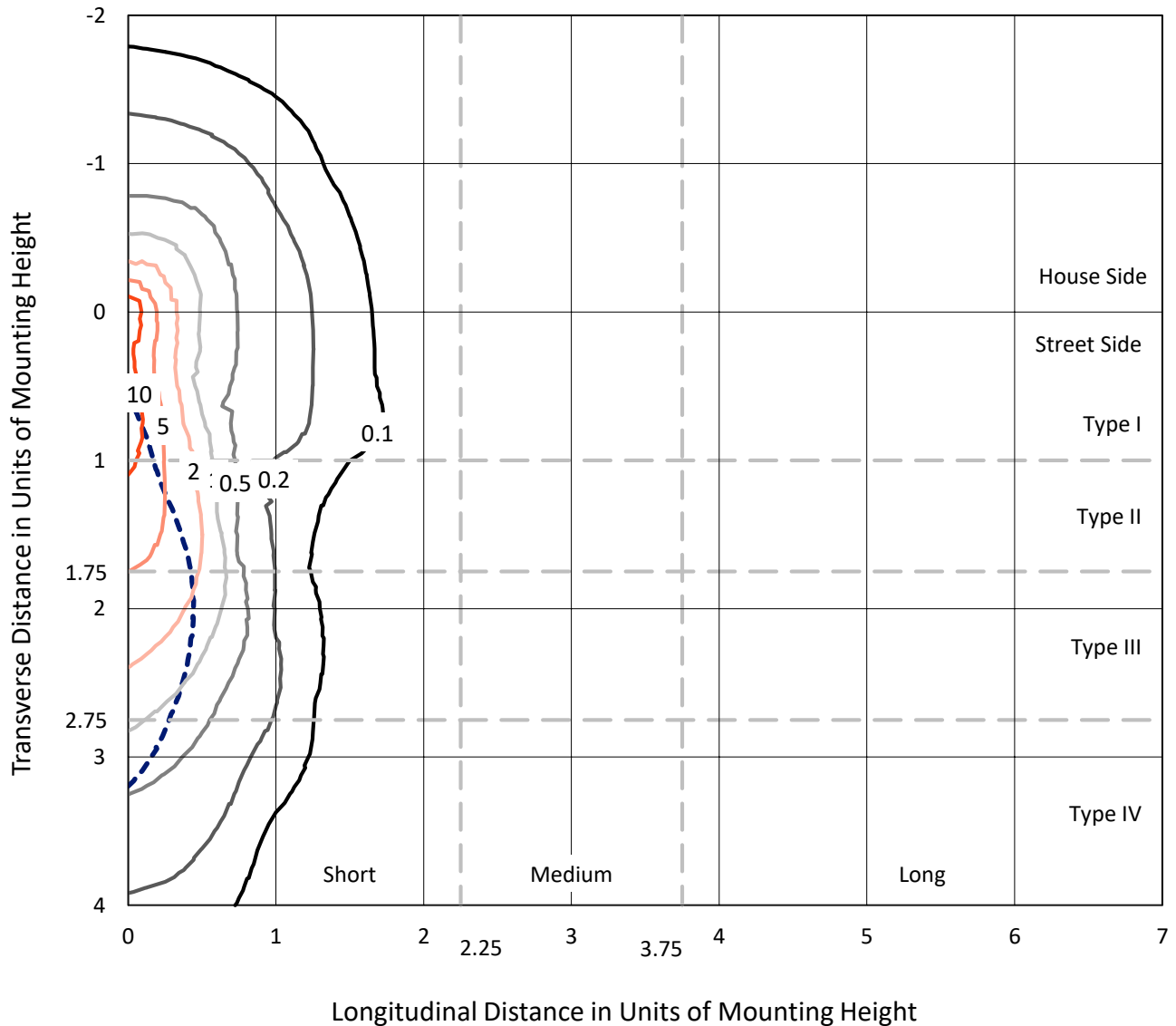
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

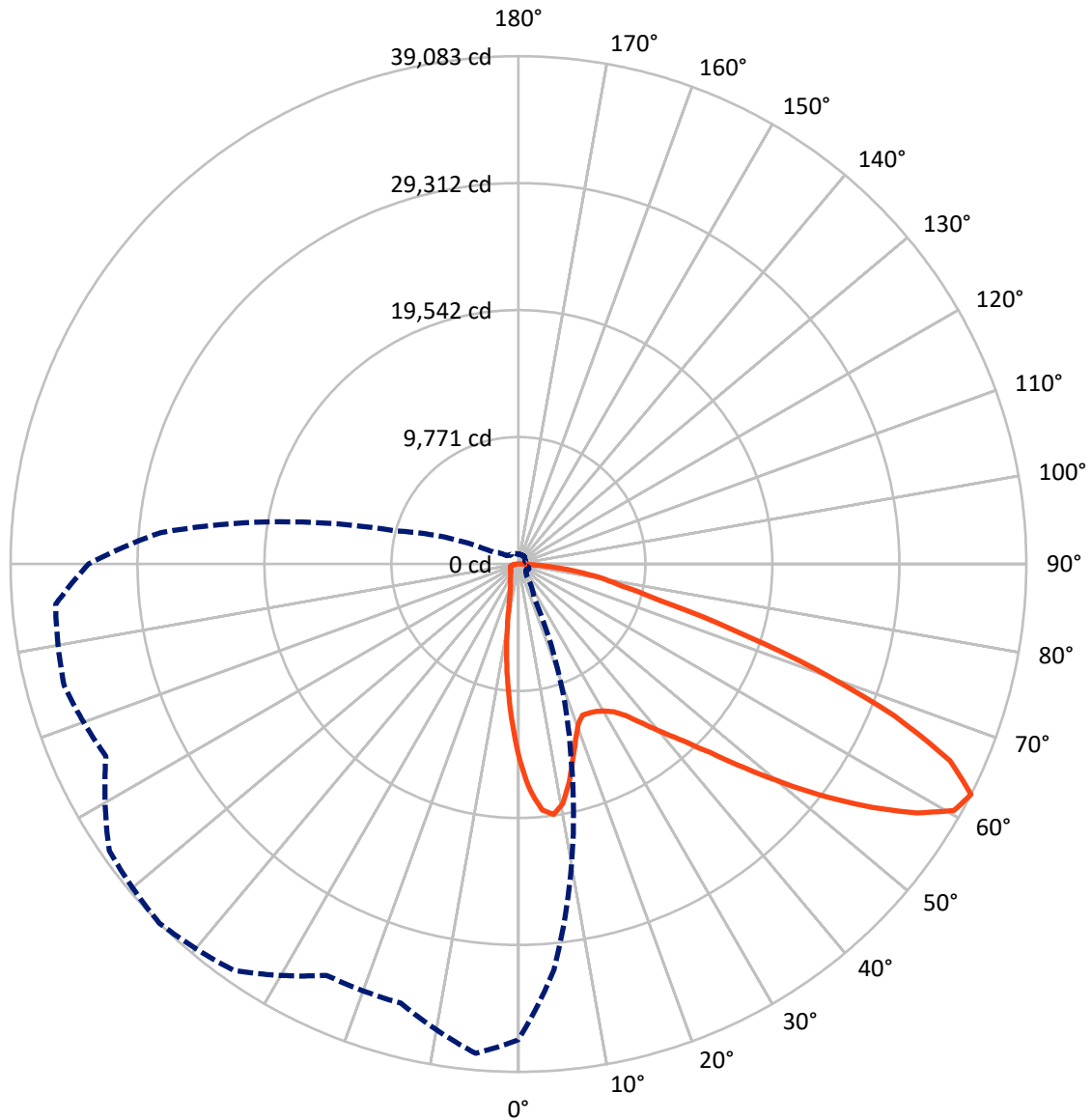


Based on 30 foot mounting height. Maximum calculated value = 16.9 fc
 Type IV - Short - Non-Cutoff

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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 | 7444.3 | 0.0 | 7444.3 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 37540.0 | 0.0 | 37540.0 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 44984.2 | 0.0 | 44984.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1106.4 | 2.5 |
| 10°-20° | 2028.8 | 4.5 |
| 20°-30° | 2957.9 | 6.6 |
| 30°-40° | 4555.6 | 10.1 |
| 40°-50° | 6704.7 | 14.9 |
| 50°-60° | 9834.3 | 21.9 |
| 60°-70° | 10993.4 | 24.4 |
| 70°-80° | 5382.2 | 12.0 |
| 80°-90° | 1421.0 | 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° | 44984.2 | 100.0 |
| 0°-180° | 44984.2 | 100.0 |

Coefficient of Utilization



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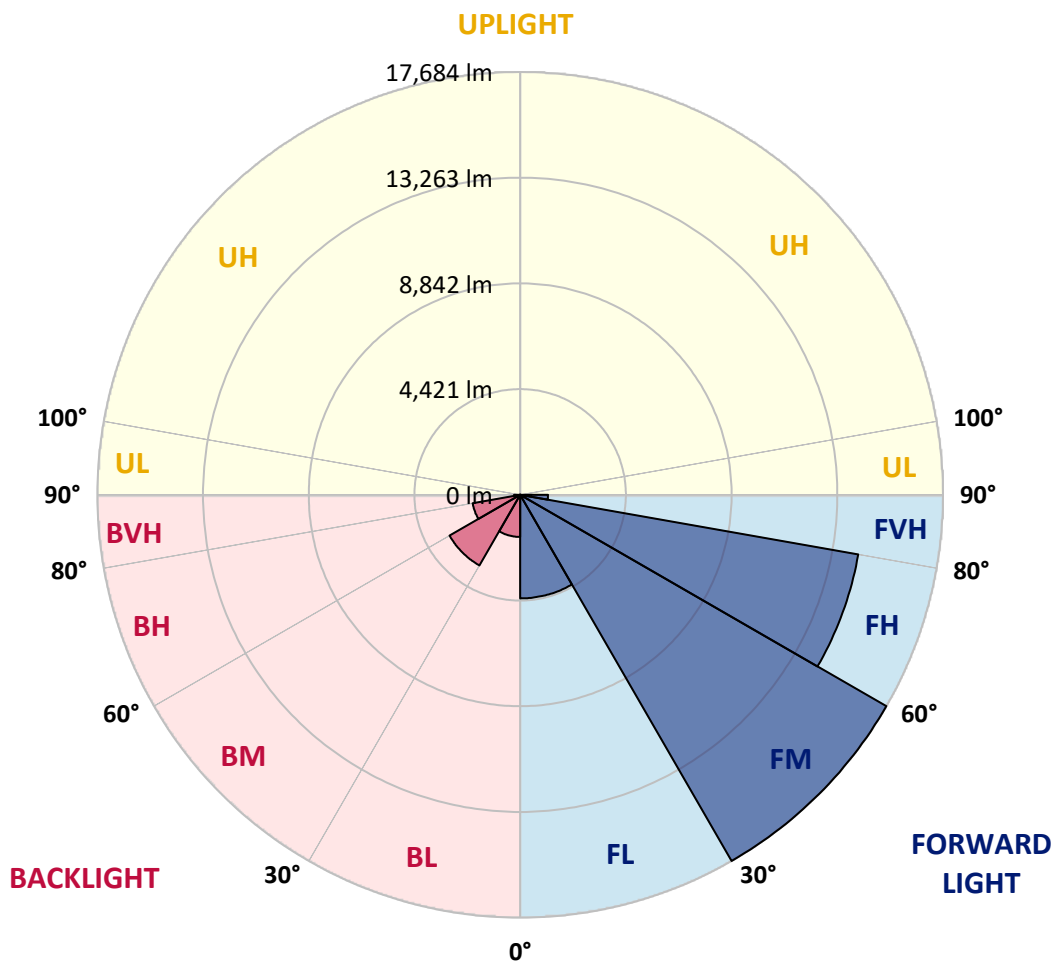
CATALOG NUMBER: GAN-AF-10-LED-U-SLR-7027-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4331.8 | 9.6 | | | |
| FM | (30°-60°) | 17683.7 | 39.3 | | | |
| FH | (60°-80°) | 14357.4 | 31.9 | | | G5 |
| FVH | (80°-90°) | 1167.0 | 2.6 | | | G5 |
| BL | (0°-30°) | 1761.2 | 3.9 | B3/2500 | | |
| BM | (30°-60°) | 3410.9 | 7.6 | B3/5000 | | |
| BH | (60°-80°) | 2018.1 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 254.0 | 0.6 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 |
| 2.5° | 15791.6 | 15470.2 | 14935.9 | 14379.6 | 14040.8 | 13645.2 | 13336.1 | 13064.1 | 12519.9 | 12413.7 | 12510.2 |
| 5° | 14849.4 | 14204.0 | 13197.5 | 12183.7 | 11508.6 | 10784.1 | 10220.2 | 9767.7 | 9077.8 | 8956.6 | 9102.5 |
| 7.5° | 13338.6 | 12567.0 | 11236.5 | 9943.2 | 8988.8 | 8083.8 | 7475.4 | 6990.7 | 6451.6 | 6219.1 | 6234.1 |
| 10° | 12035.3 | 11164.9 | 9592.1 | 8185.1 | 7403.7 | 6793.0 | 6280.9 | 5783.9 | 5237.5 | 4879.0 | 4780.1 |
| 12.5° | 11305.9 | 10304.4 | 8491.8 | 7235.6 | 6510.9 | 5868.1 | 5316.6 | 4784.9 | 4201.4 | 3835.4 | 3731.5 |
| 15° | 11179.8 | 10091.6 | 8078.7 | 6627.2 | 5719.7 | 4906.2 | 4255.8 | 3662.3 | 3061.3 | 2764.7 | 2702.8 |
| 17.5° | 11726.2 | 10472.5 | 7945.2 | 6085.7 | 4975.4 | 3971.3 | 3172.6 | 2510.0 | 2020.3 | 1872.0 | 1859.6 |
| 20° | 12774.6 | 11204.5 | 7927.9 | 5576.3 | 4240.9 | 3063.8 | 2210.6 | 1728.5 | 1513.4 | 1471.3 | 1473.8 |
| 22.5° | 14246.0 | 12339.5 | 8140.6 | 5193.0 | 3565.8 | 2284.8 | 1661.8 | 1446.6 | 1362.5 | 1322.9 | 1322.9 |
| 25° | 16150.2 | 13902.3 | 8630.2 | 4913.5 | 2979.8 | 1824.9 | 1466.5 | 1337.8 | 1258.6 | 1231.4 | 1236.4 |
| 27.5° | 17994.8 | 15423.1 | 9199.0 | 4693.5 | 2596.6 | 1656.8 | 1389.8 | 1273.4 | 1204.3 | 1177.0 | 1189.4 |
| 30° | 19434.1 | 16773.3 | 9673.8 | 4394.2 | 2401.1 | 1609.9 | 1416.9 | 1298.2 | 1199.3 | 1157.2 | 1159.7 |
| 32.5° | 20626.1 | 17955.3 | 10071.8 | 4179.2 | 2228.1 | 1379.8 | 1221.5 | 1169.7 | 1157.2 | 1107.8 | 1083.0 |
| 35° | 22149.2 | 19243.8 | 10339.0 | 4184.0 | 2146.4 | 1231.4 | 1088.0 | 996.6 | 929.7 | 873.0 | 873.0 |
| 37.5° | 23934.7 | 20722.5 | 10623.4 | 4240.9 | 2116.8 | 1144.9 | 1041.0 | 949.6 | 887.7 | 833.4 | 823.4 |
| 40° | 25700.2 | 22171.5 | 10883.0 | 4295.3 | 2099.5 | 1093.0 | 1003.9 | 920.0 | 863.0 | 808.7 | 793.8 |
| 42.5° | 27201.2 | 23363.5 | 11115.4 | 4322.6 | 2040.1 | 1088.0 | 976.7 | 900.1 | 845.8 | 786.3 | 771.6 |
| 45° | 28311.6 | 24362.5 | 11365.1 | 4364.5 | 1980.8 | 1107.8 | 976.7 | 897.6 | 830.9 | 774.0 | 759.2 |
| 47.5° | 29303.3 | 25534.6 | 11783.1 | 4364.5 | 1909.1 | 1070.7 | 1008.9 | 900.1 | 828.3 | 769.0 | 756.7 |
| 50° | 30631.1 | 27141.8 | 12574.5 | 4263.1 | 1807.7 | 1031.2 | 1063.4 | 890.2 | 806.1 | 759.2 | 744.3 |
| 52.5° | 32461.1 | 29201.8 | 13830.7 | 4087.6 | 1651.9 | 954.4 | 1055.9 | 885.3 | 784.0 | 734.5 | 717.1 |
| 55° | 34624.8 | 31407.6 | 15200.6 | 3882.4 | 1419.4 | 900.1 | 1018.8 | 873.0 | 759.2 | 704.8 | 687.5 |
| 57.5° | 36313.8 | 32925.9 | 16165.0 | 3565.8 | 1216.7 | 870.5 | 902.5 | 860.5 | 729.6 | 672.7 | 657.7 |
| 60° | 36986.4 | 32866.6 | 16429.6 | 3143.0 | 1117.8 | 845.8 | 788.8 | 964.4 | 704.8 | 647.9 | 630.6 |
| 62.5° | 36622.8 | 31348.2 | 15687.7 | 2846.2 | 1095.5 | 813.5 | 739.3 | 892.6 | 685.0 | 630.6 | 605.8 |
| 65° | 34943.8 | 28657.8 | 13721.8 | 2767.0 | 1159.7 | 781.4 | 707.2 | 699.8 | 657.7 | 605.8 | 581.2 |
| 67.5° | 31286.3 | 24636.9 | 10986.8 | 2774.5 | 1241.4 | 749.2 | 675.0 | 640.5 | 620.6 | 578.7 | 556.4 |
| 70° | 25482.7 | 19478.6 | 8190.0 | 2794.3 | 1283.4 | 712.1 | 640.5 | 603.4 | 581.2 | 539.2 | 524.3 |
| 72.5° | 18736.8 | 15012.7 | 5949.7 | 2665.7 | 1290.9 | 670.1 | 593.5 | 561.4 | 539.2 | 494.5 | 482.2 |
| 75° | 12819.3 | 11483.9 | 4127.2 | 2208.3 | 1125.1 | 610.8 | 541.6 | 511.9 | 497.0 | 442.7 | 435.1 |
| 77.5° | 9364.7 | 8620.3 | 2640.9 | 1639.4 | 867.9 | 536.6 | 477.3 | 455.0 | 445.1 | 385.7 | 375.9 |
| 80° | 7515.0 | 6820.1 | 1651.9 | 1122.7 | 635.6 | 450.1 | 400.6 | 388.2 | 378.4 | 319.0 | 311.6 |
| 82.5° | 5212.8 | 4567.3 | 1060.9 | 729.6 | 477.3 | 348.6 | 316.6 | 311.6 | 296.7 | 242.4 | 234.9 |
| 85° | 2749.8 | 2480.3 | 672.7 | 497.0 | 346.1 | 239.8 | 220.1 | 220.1 | 212.7 | 160.7 | 155.8 |
| 87.5° | 351.1 | 571.2 | 341.3 | 259.6 | 190.4 | 106.3 | 106.3 | 103.8 | 111.3 | 91.4 | 79.1 |
| 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° | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 |
| 2.5° | 12282.6 | 12401.3 | 12287.6 | 12295.0 | 12421.1 | 12797.0 | 12967.7 | 13108.5 | 13259.4 | 13358.2 | 13402.8 |
| 5° | 8902.3 | 9179.2 | 9273.2 | 9471.0 | 9762.8 | 10242.6 | 10432.9 | 10571.4 | 10662.9 | 10717.3 | 10739.5 |
| 7.5° | 6088.2 | 6256.2 | 6444.3 | 6763.2 | 7398.7 | 7680.7 | 7806.8 | 7774.7 | 7670.7 | 7633.6 | 7596.5 |
| 10° | 4589.6 | 4522.8 | 4488.2 | 4663.8 | 5178.1 | 5462.6 | 5551.5 | 5465.0 | 5408.1 | 5420.5 | 5482.3 |
| 12.5° | 3555.9 | 3439.7 | 3298.8 | 3279.1 | 3617.7 | 3872.5 | 3929.4 | 3934.2 | 4038.2 | 4129.7 | 4265.6 |
| 15° | 2591.5 | 2579.2 | 2510.0 | 2468.0 | 2660.8 | 2868.5 | 2893.3 | 2937.7 | 3031.7 | 3098.4 | 3217.2 |
| 17.5° | 1827.4 | 1894.2 | 1948.7 | 1975.8 | 2121.6 | 2270.0 | 2242.9 | 2220.6 | 2203.4 | 2203.4 | 2260.1 |
| 20° | 1473.8 | 1518.3 | 1587.6 | 1666.6 | 1815.0 | 1918.9 | 1852.1 | 1763.2 | 1698.9 | 1679.0 | 1686.5 |
| 22.5° | 1328.0 | 1362.5 | 1402.2 | 1471.3 | 1604.9 | 1676.5 | 1604.9 | 1540.6 | 1476.3 | 1454.0 | 1446.6 |
| 25° | 1253.8 | 1298.2 | 1335.3 | 1387.3 | 1486.2 | 1535.7 | 1466.5 | 1419.4 | 1379.8 | 1352.7 | 1332.8 |
| 27.5° | 1211.8 | 1251.2 | 1261.1 | 1285.8 | 1369.9 | 1414.6 | 1379.8 | 1360.0 | 1335.3 | 1310.5 | 1285.8 |
| 30° | 1167.2 | 1159.7 | 1142.5 | 1144.9 | 1211.8 | 1256.2 | 1253.8 | 1258.6 | 1256.2 | 1248.7 | 1243.9 |
| 32.5° | 1065.7 | 1050.9 | 1036.1 | 1050.9 | 1112.8 | 1152.3 | 1154.9 | 1164.7 | 1164.7 | 1162.2 | 1182.0 |
| 35° | 887.7 | 915.0 | 932.4 | 976.7 | 1050.9 | 1085.6 | 1070.7 | 1045.9 | 1001.5 | 974.3 | 971.8 |
| 37.5° | 821.1 | 825.9 | 855.5 | 917.3 | 999.0 | 1031.2 | 1008.9 | 952.1 | 922.4 | 917.3 | 924.9 |
| 40° | 788.8 | 793.8 | 811.1 | 867.9 | 949.6 | 981.7 | 961.9 | 920.0 | 892.6 | 890.2 | 902.5 |
| 42.5° | 766.6 | 771.6 | 781.4 | 821.1 | 887.7 | 927.3 | 929.7 | 900.1 | 867.9 | 870.5 | 882.9 |
| 45° | 754.1 | 756.7 | 754.1 | 774.0 | 835.9 | 882.9 | 902.5 | 882.9 | 855.5 | 860.5 | 875.4 |
| 47.5° | 751.7 | 744.3 | 734.5 | 739.3 | 803.7 | 850.7 | 875.4 | 867.9 | 855.5 | 860.5 | 873.0 |
| 50° | 741.9 | 724.6 | 712.1 | 709.8 | 774.0 | 823.4 | 845.8 | 845.8 | 850.7 | 860.5 | 873.0 |
| 52.5° | 712.1 | 692.5 | 692.5 | 685.0 | 754.1 | 801.2 | 816.0 | 818.5 | 825.9 | 843.2 | 860.5 |
| 55° | 675.0 | 667.7 | 675.0 | 662.7 | 739.3 | 784.0 | 791.2 | 796.3 | 801.2 | 816.0 | 840.8 |
| 57.5° | 642.9 | 633.0 | 650.4 | 645.4 | 727.0 | 766.6 | 766.6 | 776.5 | 776.5 | 796.3 | 816.0 |
| 60° | 625.6 | 605.8 | 613.3 | 618.3 | 709.8 | 751.7 | 746.9 | 756.7 | 761.7 | 778.9 | 793.8 |
| 62.5° | 603.4 | 586.1 | 586.1 | 598.5 | 689.9 | 729.6 | 727.0 | 734.5 | 754.1 | 759.2 | 774.0 |
| 65° | 576.2 | 568.7 | 561.4 | 576.2 | 670.1 | 704.8 | 707.2 | 717.1 | 734.5 | 739.3 | 751.7 |
| 67.5° | 549.0 | 551.4 | 536.6 | 551.4 | 652.8 | 680.0 | 680.0 | 699.8 | 707.2 | 717.1 | 729.6 |
| 70° | 519.3 | 521.7 | 509.3 | 526.8 | 640.5 | 652.8 | 650.4 | 677.5 | 682.5 | 689.9 | 702.2 |
| 72.5° | 482.2 | 482.2 | 477.3 | 502.1 | 620.6 | 625.6 | 620.6 | 642.9 | 645.4 | 652.8 | 657.7 |
| 75° | 442.7 | 442.7 | 437.7 | 472.2 | 608.3 | 595.9 | 581.2 | 598.5 | 603.4 | 608.3 | 608.3 |
| 77.5° | 390.8 | 395.7 | 395.7 | 437.7 | 566.3 | 583.5 | 534.1 | 544.1 | 551.4 | 554.0 | 546.4 |
| 80° | 326.4 | 338.8 | 343.7 | 398.0 | 474.8 | 539.2 | 477.3 | 484.6 | 487.2 | 487.2 | 477.3 |
| 82.5° | 249.8 | 271.9 | 284.4 | 343.7 | 363.5 | 452.6 | 415.5 | 422.8 | 415.5 | 400.6 | 395.7 |
| 85° | 173.2 | 202.7 | 217.6 | 262.1 | 274.5 | 348.6 | 346.1 | 346.1 | 331.4 | 311.6 | 309.0 |
| 87.5° | 94.0 | 111.3 | 121.2 | 155.8 | 187.9 | 234.9 | 254.7 | 247.4 | 234.9 | 222.6 | 225.0 |
| 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° | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 |
| 2.5° | 13635.3 | 13971.6 | 14508.2 | 14918.7 | 15331.6 | 15729.7 | 16160.0 | 16488.8 | 16768.3 | 16877.1 | 17208.6 |
| 5° | 10964.6 | 11384.9 | 11891.9 | 12806.9 | 13454.8 | 14169.3 | 14995.3 | 16088.4 | 16508.7 | 17089.8 | 18041.9 |
| 7.5° | 7752.4 | 8133.2 | 8949.3 | 9688.6 | 10606.0 | 11617.4 | 12732.7 | 14241.1 | 14792.6 | 15724.8 | 17275.2 |
| 10° | 5788.9 | 6231.5 | 6886.9 | 7510.0 | 8318.7 | 9352.3 | 10633.2 | 12319.7 | 12989.9 | 14001.3 | 15786.6 |
| 12.5° | 4663.8 | 5185.6 | 5880.5 | 6466.4 | 7092.1 | 7821.6 | 9065.4 | 10915.1 | 11812.8 | 12698.0 | 14503.2 |
| 15° | 3583.2 | 4129.7 | 4775.1 | 5519.4 | 6209.4 | 6995.7 | 8298.8 | 10321.6 | 11355.4 | 12277.7 | 13818.3 |
| 17.5° | 2480.3 | 2947.6 | 3761.3 | 4537.7 | 5420.5 | 6427.0 | 8086.3 | 10447.7 | 11681.6 | 12745.1 | 13936.9 |
| 20° | 1758.3 | 2025.3 | 2692.8 | 3593.0 | 4693.5 | 5957.1 | 8046.7 | 11110.4 | 12715.4 | 13929.6 | 14698.5 |
| 22.5° | 1478.8 | 1577.7 | 1965.9 | 2791.8 | 4062.9 | 5606.0 | 8185.1 | 12040.3 | 14110.0 | 15660.5 | 15912.8 |
| 25° | 1347.6 | 1407.0 | 1609.9 | 2191.0 | 3501.6 | 5351.3 | 8652.5 | 13425.1 | 15836.1 | 17391.5 | 17347.0 |
| 27.5° | 1276.0 | 1337.8 | 1471.3 | 1849.7 | 3078.8 | 5193.0 | 9119.9 | 15067.0 | 17809.3 | 19270.9 | 18716.9 |
| 30° | 1253.8 | 1337.8 | 1478.8 | 1743.3 | 2777.0 | 4943.3 | 9503.1 | 16508.7 | 19327.8 | 20539.4 | 19340.1 |
| 32.5° | 1236.4 | 1248.7 | 1313.1 | 1503.6 | 2490.1 | 4651.5 | 9762.8 | 17802.0 | 20813.9 | 21746.2 | 20237.7 |
| 35° | 999.0 | 1060.9 | 1164.7 | 1347.6 | 2321.9 | 4475.9 | 9762.8 | 18917.2 | 22277.8 | 22965.3 | 21093.3 |
| 37.5° | 961.9 | 1016.3 | 1107.8 | 1263.6 | 2228.1 | 4389.3 | 9567.5 | 19992.9 | 23774.0 | 24347.7 | 21798.1 |
| 40° | 942.1 | 986.7 | 1073.3 | 1199.3 | 2188.5 | 4290.3 | 9283.1 | 20942.5 | 25235.4 | 25732.4 | 22455.9 |
| 42.5° | 927.3 | 966.8 | 1048.5 | 1159.7 | 2136.4 | 4181.6 | 9053.1 | 21704.2 | 26504.0 | 26914.5 | 23083.9 |
| 45° | 920.0 | 961.9 | 1050.9 | 1179.6 | 2032.7 | 4038.2 | 8976.5 | 22527.7 | 27547.5 | 27901.0 | 23764.0 |
| 47.5° | 920.0 | 969.4 | 1063.4 | 1221.5 | 1909.1 | 3889.8 | 9216.3 | 23613.1 | 28534.1 | 28707.2 | 24565.2 |
| 50° | 912.5 | 966.8 | 1098.0 | 1179.6 | 1728.5 | 3701.8 | 9780.0 | 24980.6 | 29602.4 | 29622.1 | 25579.1 |
| 52.5° | 897.6 | 961.9 | 1182.0 | 1154.9 | 1520.8 | 3454.5 | 10541.7 | 26736.4 | 31182.5 | 31301.4 | 27166.6 |
| 55° | 880.2 | 954.4 | 1159.7 | 1098.0 | 1350.2 | 3160.2 | 11164.9 | 28870.4 | 33403.1 | 33732.1 | 29501.1 |
| 57.5° | 858.2 | 944.6 | 1122.7 | 1018.8 | 1238.9 | 2782.0 | 11389.9 | 30433.3 | 34953.7 | 35779.6 | 32132.2 |
| 60° | 838.3 | 937.2 | 1013.8 | 971.8 | 1169.7 | 2463.0 | 10954.7 | 30124.2 | 34847.3 | 36627.9 | 34464.1 |
| 62.5° | 818.5 | 944.6 | 924.9 | 942.1 | 1137.6 | 2257.7 | 9817.1 | 27648.8 | 33084.1 | 35752.5 | 36192.5 |
| 65° | 796.3 | 877.9 | 873.0 | 917.3 | 1130.1 | 2176.1 | 8138.1 | 23937.1 | 29676.5 | 32985.3 | 36600.5 |
| 67.5° | 766.6 | 811.1 | 835.9 | 885.3 | 1154.9 | 2104.4 | 6567.9 | 19745.6 | 24941.1 | 28838.3 | 34474.0 |
| 70° | 734.5 | 771.6 | 798.8 | 845.8 | 1139.9 | 2072.2 | 5462.6 | 15571.5 | 19790.2 | 23635.5 | 30277.6 |
| 72.5° | 692.5 | 724.6 | 749.2 | 793.8 | 1125.1 | 2055.0 | 4614.4 | 12539.8 | 14775.2 | 17557.3 | 24617.2 |
| 75° | 642.9 | 672.7 | 689.9 | 734.5 | 1078.1 | 1881.8 | 3627.6 | 10611.0 | 11056.1 | 12213.4 | 19607.1 |
| 77.5° | 586.1 | 608.3 | 623.2 | 672.7 | 954.4 | 1565.2 | 2623.7 | 8185.1 | 8585.7 | 8867.6 | 15032.3 |
| 80° | 519.3 | 541.6 | 549.0 | 595.9 | 791.2 | 1224.1 | 1711.2 | 6046.1 | 6422.0 | 6486.3 | 9817.1 |
| 82.5° | 442.7 | 465.0 | 465.0 | 509.3 | 647.9 | 880.2 | 1122.7 | 4142.1 | 4216.3 | 4433.9 | 6938.8 |
| 85° | 356.1 | 373.3 | 373.3 | 395.7 | 502.1 | 657.7 | 771.6 | 2079.7 | 2057.4 | 2349.2 | 6011.5 |
| 87.5° | 254.7 | 267.1 | 279.5 | 284.4 | 358.6 | 435.1 | 465.0 | 633.0 | 417.9 | 479.8 | 3860.0 |
| 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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| 0° | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 | 15198.2 |
| 2.5° | 17458.3 | 17599.2 | 17455.9 | 17351.9 | 16904.3 | 16535.9 | 16043.8 | 15791.6 |
| 5° | 18766.4 | 19124.9 | 19003.9 | 18568.5 | 17633.9 | 16582.9 | 15388.5 | 14849.4 |
| 7.5° | 18608.1 | 19441.5 | 19461.3 | 18647.7 | 17270.4 | 15722.3 | 14105.0 | 13338.6 |
| 10° | 17376.6 | 18442.5 | 18746.5 | 17957.7 | 16496.4 | 14765.4 | 12910.7 | 12035.3 |
| 12.5° | 16001.8 | 17045.2 | 17277.8 | 17005.8 | 15784.2 | 14045.8 | 12163.9 | 11305.9 |
| 15° | 14876.7 | 15343.9 | 15620.9 | 15858.4 | 15173.5 | 13758.9 | 12121.9 | 11179.8 |
| 17.5° | 14191.7 | 14139.7 | 14218.8 | 14631.9 | 14748.1 | 14087.8 | 12764.8 | 11726.2 |
| 20° | 13944.4 | 13150.6 | 13130.9 | 13699.5 | 14547.7 | 14871.7 | 14021.0 | 12774.6 |
| 22.5° | 14080.4 | 12794.5 | 12631.2 | 13306.4 | 14654.1 | 16001.8 | 15668.0 | 14246.0 |
| 25° | 14550.1 | 12824.2 | 12693.1 | 13345.8 | 15039.9 | 17206.0 | 17446.0 | 16150.2 |
| 27.5° | 15289.6 | 13012.0 | 12839.0 | 13509.2 | 15551.6 | 18217.4 | 19196.7 | 17994.8 |
| 30° | 15991.8 | 13338.6 | 13123.3 | 13830.7 | 16019.0 | 18618.0 | 20270.0 | 19434.1 |
| 32.5° | 16844.9 | 13949.3 | 13571.0 | 14421.6 | 16597.8 | 19256.1 | 21226.9 | 20626.1 |
| 35° | 17680.8 | 14819.8 | 14350.0 | 15334.1 | 17243.1 | 20049.8 | 22319.8 | 22149.2 |
| 37.5° | 18598.2 | 15957.2 | 15569.1 | 16513.6 | 18125.9 | 20799.0 | 23714.5 | 23934.7 |
| 40° | 19577.5 | 17465.7 | 17005.8 | 18234.8 | 19495.8 | 21738.8 | 25171.0 | 25700.2 |
| 42.5° | 20564.2 | 19139.7 | 18590.9 | 19837.1 | 21001.8 | 22666.2 | 26417.4 | 27201.2 |
| 45° | 21694.2 | 20957.4 | 20697.7 | 22045.5 | 22448.5 | 23548.9 | 27337.3 | 28311.6 |
| 47.5° | 23009.8 | 23019.6 | 23437.6 | 23976.8 | 23907.4 | 24548.0 | 28262.1 | 29303.3 |
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| 55° | 28697.3 | 31931.8 | 33066.9 | 32898.6 | 28892.7 | 28717.1 | 34110.4 | 34624.8 |
| 57.5° | 31368.1 | 35089.7 | 36133.2 | 35376.5 | 31128.2 | 30675.6 | 36204.8 | 36313.8 |
| 60° | 33714.7 | 37592.2 | 38507.1 | 37668.8 | 33383.4 | 32760.3 | 37513.0 | 36986.4 |
| 62.5° | 35020.5 | 38440.5 | 39083.3 | 38180.8 | 34928.9 | 34980.9 | 37799.9 | 36622.8 |
| 65° | 34436.9 | 36296.3 | 36504.2 | 36430.0 | 34530.8 | 36269.2 | 36768.7 | 34943.8 |
| 67.5° | 31242.0 | 30876.0 | 31224.5 | 31706.8 | 31118.2 | 34572.9 | 33912.5 | 31286.3 |
| 70° | 25613.7 | 23603.2 | 24298.2 | 24622.2 | 24889.2 | 29750.7 | 29434.3 | 25482.7 |
| 72.5° | 19303.0 | 16535.9 | 17084.9 | 17018.1 | 18254.5 | 23862.9 | 22891.1 | 18736.8 |
| 75° | 13677.4 | 11211.8 | 11281.2 | 11254.0 | 12737.6 | 18670.0 | 16575.4 | 12819.3 |
| 77.5° | 9570.0 | 8123.4 | 8160.5 | 8313.8 | 8563.5 | 14080.4 | 11842.4 | 9364.7 |
| 80° | 6580.3 | 6164.8 | 6370.1 | 6382.4 | 5934.8 | 9458.7 | 8749.0 | 7515.0 |
| 82.5° | 4901.2 | 4285.5 | 4236.0 | 4307.7 | 4651.5 | 7663.4 | 6723.6 | 5212.8 |
| 85° | 4013.4 | 2537.2 | 2040.1 | 2556.9 | 4122.2 | 7589.2 | 4466.0 | 2749.8 |
| 87.5° | 2260.1 | 1204.3 | 544.1 | 1008.9 | 1644.4 | 5024.8 | 1290.9 | 351.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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