

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: P194751

Luminaire Tested: **GAN-AF-03-LED-U-T2R-7060-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-T2R-7060-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18932 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

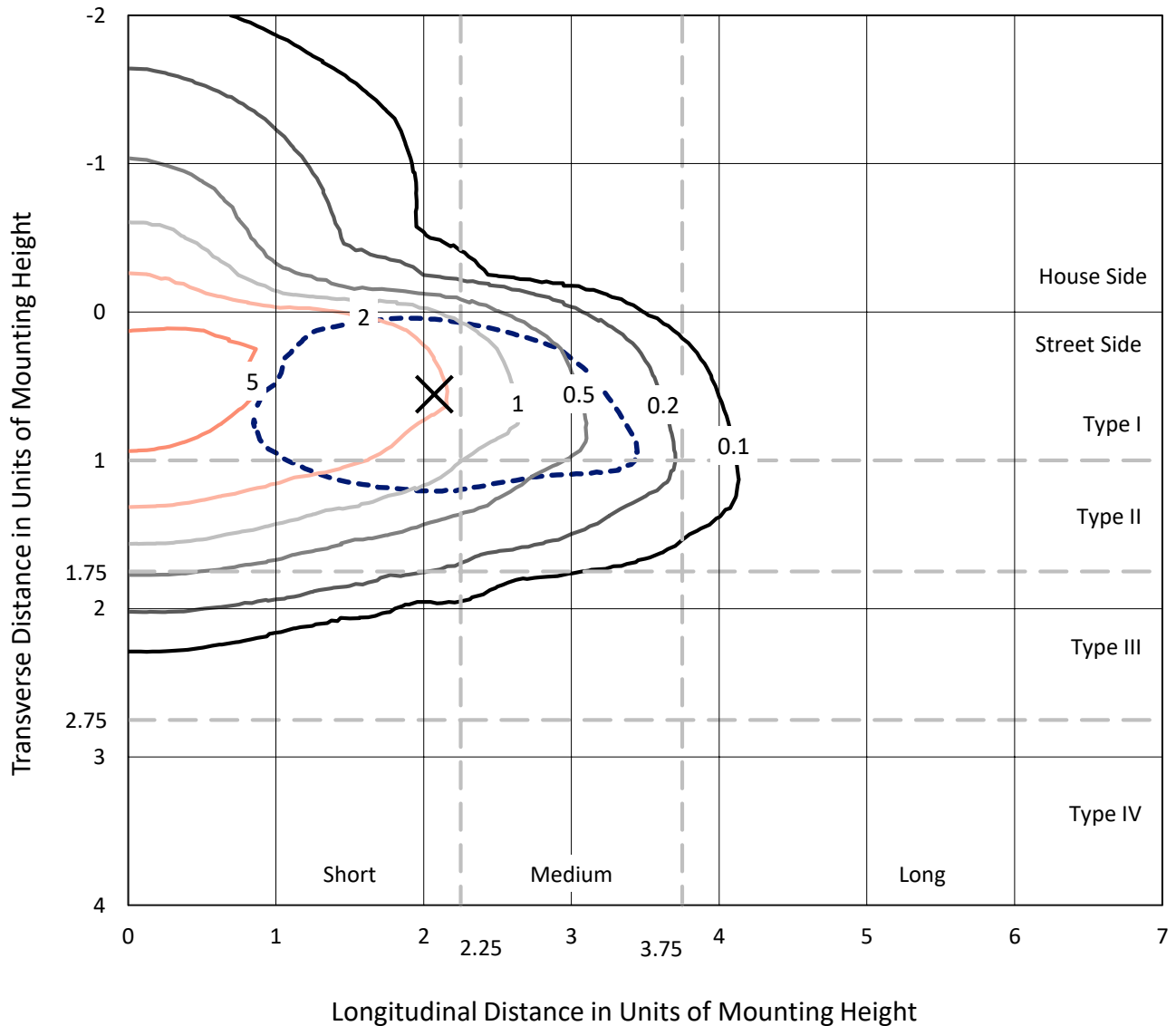
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

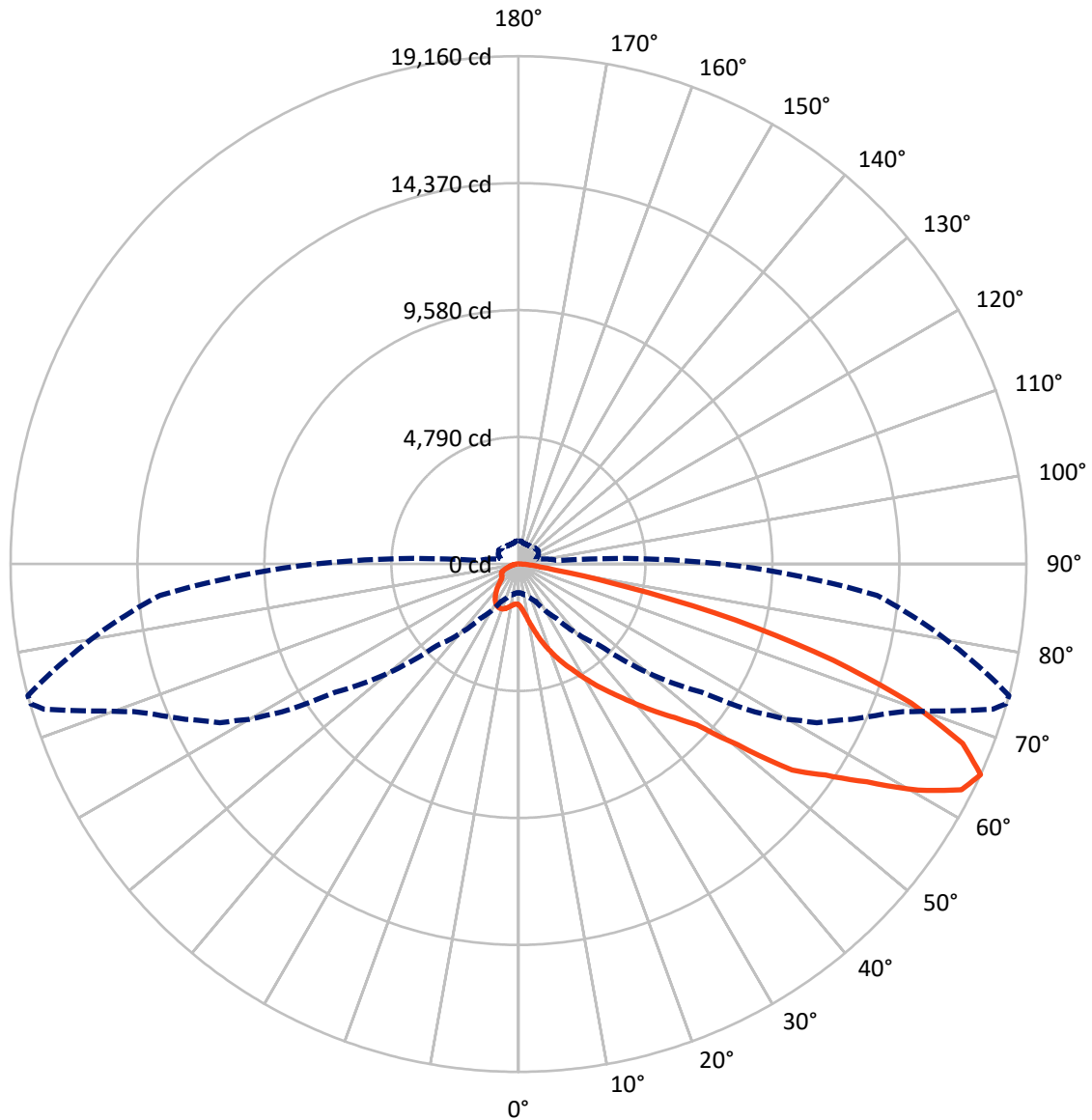
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2918.9 | 0.0 | 2918.9 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 16013.1 | 0.0 | 16013.1 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 18932.0 | 0.0 | 18932.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 190.2 | 1.0 |
| 10°-20° | 743.1 | 3.9 |
| 20°-30° | 1524.5 | 8.1 |
| 30°-40° | 2564.9 | 13.5 |
| 40°-50° | 3544.0 | 18.7 |
| 50°-60° | 4423.9 | 23.4 |
| 60°-70° | 3981.1 | 21.0 |
| 70°-80° | 1668.8 | 8.8 |
| 80°-90° | 291.6 | 1.5 |
| 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° | 18932.0 | 100.0 |
| 0°-180° | 18932.0 | 100.0 |

Coefficient of Utilization



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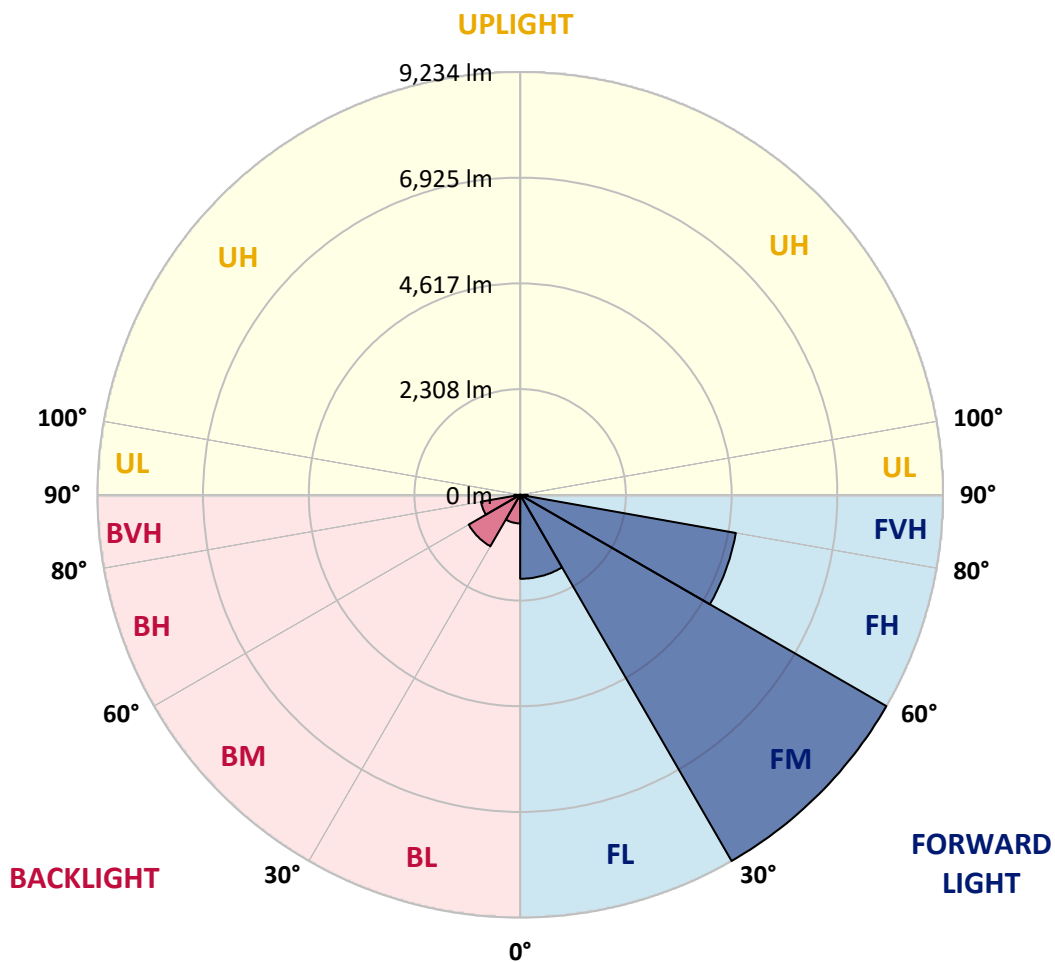
CATALOG NUMBER: GAN-AF-03-LED-U-T2R-7060-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1833.5 | 9.7 | | | |
| FM (30°-60°) | 9233.6 | 48.8 | | | |
| FH (60°-80°) | 4782.2 | 25.3 | | | G2/5000 |
| FVH (80°-90°) | 163.9 | 0.9 | | | G2/225 |
| BL (0°-30°) | 624.2 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 1299.2 | 6.9 | B2/2500 | | |
| BH (60°-80°) | 867.7 | 4.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 127.7 | 0.7 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 |
| 2.5° | 1953.5 | 1932.0 | 1937.3 | 1901.5 | 1857.6 | 1800.2 | 1736.6 | 1735.7 | 1736.6 | 1730.4 | 1707.1 |
| 5° | 2708.9 | 2682.9 | 2673.0 | 2592.4 | 2474.1 | 2305.6 | 2122.8 | 2103.1 | 2095.1 | 2074.4 | 2027.0 |
| 7.5° | 3260.0 | 3245.6 | 3230.4 | 3169.5 | 3061.9 | 2873.8 | 2628.2 | 2586.1 | 2545.8 | 2535.9 | 2482.2 |
| 10° | 3615.7 | 3612.1 | 3579.9 | 3563.8 | 3496.5 | 3333.5 | 3094.2 | 3053.9 | 3010.0 | 2994.7 | 2938.3 |
| 12.5° | 3897.1 | 3896.2 | 3881.0 | 3885.4 | 3827.2 | 3708.9 | 3502.8 | 3466.1 | 3433.8 | 3387.2 | 3346.9 |
| 15° | 4091.5 | 4092.4 | 4114.8 | 4139.9 | 4131.0 | 4051.2 | 3857.7 | 3841.5 | 3813.8 | 3781.5 | 3734.0 |
| 17.5° | 4251.1 | 4255.5 | 4278.8 | 4324.5 | 4373.8 | 4367.5 | 4214.3 | 4200.9 | 4176.7 | 4132.8 | 4107.7 |
| 20° | 4611.3 | 4628.3 | 4583.5 | 4583.5 | 4588.9 | 4613.1 | 4539.6 | 4528.8 | 4494.8 | 4471.5 | 4451.8 |
| 22.5° | 5219.7 | 5239.4 | 5138.2 | 5035.1 | 4933.9 | 4860.4 | 4786.9 | 4800.4 | 4777.1 | 4760.9 | 4749.3 |
| 25° | 6010.1 | 6025.3 | 5861.3 | 5687.5 | 5481.4 | 5212.6 | 5030.7 | 5022.6 | 5010.0 | 5000.2 | 4994.8 |
| 27.5° | 6753.8 | 6760.1 | 6605.1 | 6350.6 | 6111.3 | 5725.1 | 5278.0 | 5268.1 | 5252.9 | 5234.1 | 5217.9 |
| 30° | 7390.1 | 7388.3 | 7228.8 | 6985.9 | 6729.6 | 6302.2 | 5653.4 | 5623.0 | 5578.2 | 5527.1 | 5487.7 |
| 32.5° | 7941.2 | 7938.5 | 7763.7 | 7511.9 | 7243.1 | 6873.9 | 6167.8 | 6105.1 | 6035.2 | 5935.7 | 5875.7 |
| 35° | 8374.9 | 8373.1 | 8208.2 | 7945.6 | 7637.4 | 7412.5 | 6757.4 | 6680.4 | 6591.6 | 6458.1 | 6365.8 |
| 37.5° | 8538.8 | 8538.8 | 8446.5 | 8267.3 | 7994.9 | 7840.8 | 7412.5 | 7319.3 | 7224.3 | 7072.8 | 6968.9 |
| 40° | 8443.0 | 8444.8 | 8464.5 | 8431.3 | 8298.7 | 8180.4 | 8023.6 | 7968.0 | 7886.5 | 7750.3 | 7641.9 |
| 42.5° | 8121.3 | 8131.1 | 8262.0 | 8422.4 | 8488.7 | 8469.8 | 8565.7 | 8540.6 | 8483.3 | 8378.4 | 8292.4 |
| 45° | 7713.5 | 7744.0 | 7887.4 | 8190.3 | 8541.5 | 8719.9 | 9020.0 | 9022.7 | 9012.0 | 8955.5 | 8889.2 |
| 47.5° | 7153.5 | 7196.5 | 7385.6 | 7795.1 | 8417.9 | 8962.7 | 9481.5 | 9505.7 | 9528.1 | 9491.4 | 9460.9 |
| 50° | 6409.7 | 6460.8 | 6744.0 | 7287.0 | 8166.1 | 9214.5 | 10353.4 | 10462.8 | 10564.9 | 10552.4 | 10573.0 |
| 52.5° | 5613.1 | 5673.1 | 6019.9 | 6624.8 | 7733.3 | 9272.7 | 10910.8 | 11089.1 | 11267.4 | 11413.5 | 11568.5 |
| 55° | 4894.4 | 4862.2 | 5209.0 | 5846.1 | 7021.8 | 9010.2 | 11411.7 | 11626.8 | 11825.7 | 12004.9 | 12189.5 |
| 57.5° | 3920.4 | 3973.3 | 4320.9 | 4950.9 | 6080.0 | 8269.1 | 11756.7 | 12071.2 | 12357.1 | 12653.7 | 12915.4 |
| 60° | 2865.7 | 2918.6 | 3295.8 | 3935.6 | 5057.5 | 7145.4 | 11493.3 | 11970.0 | 12427.9 | 12882.2 | 13237.0 |
| 62.5° | 1730.4 | 1769.8 | 2102.2 | 2711.6 | 3899.8 | 5812.9 | 10319.4 | 10944.8 | 11618.7 | 12161.7 | 12705.7 |
| 65° | 1077.1 | 1099.5 | 1222.3 | 1557.4 | 2504.6 | 4339.8 | 8431.3 | 9113.2 | 9839.1 | 10528.2 | 11093.6 |
| 67.5° | 881.8 | 889.8 | 912.2 | 983.9 | 1375.5 | 2829.9 | 6275.3 | 6879.3 | 7534.3 | 8201.0 | 8830.1 |
| 70° | 793.0 | 787.7 | 787.7 | 792.1 | 881.8 | 1521.6 | 4108.6 | 4502.0 | 5047.7 | 5627.4 | 6202.7 |
| 72.5° | 716.0 | 710.6 | 700.7 | 687.3 | 719.6 | 928.3 | 2123.7 | 2420.3 | 2813.7 | 3329.0 | 3880.1 |
| 75° | 643.4 | 636.2 | 624.6 | 607.5 | 630.0 | 700.7 | 1019.8 | 1144.3 | 1336.1 | 1610.3 | 1917.6 |
| 77.5° | 568.1 | 559.2 | 548.4 | 535.9 | 564.5 | 544.8 | 597.7 | 642.5 | 716.0 | 803.8 | 919.4 |
| 80° | 483.0 | 474.9 | 471.3 | 465.1 | 499.1 | 414.9 | 422.1 | 449.8 | 492.8 | 540.3 | 594.1 |
| 82.5° | 378.2 | 378.2 | 392.5 | 395.2 | 432.8 | 298.4 | 315.4 | 339.6 | 362.0 | 387.1 | 412.2 |
| 85° | 249.1 | 250.9 | 299.3 | 318.1 | 341.4 | 200.7 | 236.6 | 244.6 | 262.6 | 276.9 | 287.6 |
| 87.5° | 78.0 | 84.2 | 182.8 | 202.5 | 196.2 | 113.8 | 145.2 | 148.8 | 161.3 | 171.2 | 180.1 |
| 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):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 |
| 2.5° | 1707.1 | 1696.3 | 1686.4 | 1685.5 | 1678.4 | 1668.5 | 1672.1 | 1656.9 | 1657.8 | 1649.7 | 1640.7 |
| 5° | 2007.2 | 2000.1 | 1964.2 | 1954.4 | 1927.5 | 1910.5 | 1907.8 | 1871.9 | 1867.5 | 1846.8 | 1824.4 |
| 7.5° | 2439.2 | 2415.9 | 2365.7 | 2341.5 | 2295.8 | 2261.7 | 2245.6 | 2198.1 | 2174.8 | 2121.0 | 2096.9 |
| 10° | 2891.7 | 2862.1 | 2800.3 | 2766.2 | 2722.3 | 2667.7 | 2638.1 | 2569.1 | 2542.2 | 2492.9 | 2433.8 |
| 12.5° | 3311.1 | 3281.5 | 3217.9 | 3191.9 | 3133.6 | 3075.4 | 3043.1 | 2965.2 | 2930.2 | 2851.4 | 2804.8 |
| 15° | 3699.1 | 3669.5 | 3613.9 | 3587.0 | 3528.8 | 3481.3 | 3438.3 | 3361.2 | 3320.0 | 3246.5 | 3185.6 |
| 17.5° | 4075.4 | 4044.1 | 3995.7 | 3971.5 | 3915.0 | 3866.6 | 3820.0 | 3747.4 | 3705.3 | 3631.9 | 3577.2 |
| 20° | 4424.9 | 4401.6 | 4366.6 | 4334.4 | 4277.9 | 4234.0 | 4178.5 | 4115.7 | 4054.8 | 4001.0 | 3949.1 |
| 22.5° | 4729.6 | 4720.6 | 4683.0 | 4668.6 | 4620.2 | 4582.6 | 4534.2 | 4472.4 | 4428.5 | 4360.4 | 4312.0 |
| 25° | 4992.1 | 4989.4 | 4971.5 | 4967.0 | 4933.0 | 4897.1 | 4886.4 | 4835.3 | 4795.0 | 4734.9 | 4684.8 |
| 27.5° | 5217.9 | 5220.6 | 5216.1 | 5228.7 | 5219.7 | 5203.6 | 5204.5 | 5187.5 | 5164.2 | 5114.0 | 5070.1 |
| 30° | 5468.8 | 5454.5 | 5462.6 | 5480.5 | 5485.9 | 5487.7 | 5517.2 | 5527.1 | 5525.3 | 5492.1 | 5470.6 |
| 32.5° | 5823.7 | 5789.6 | 5758.3 | 5755.6 | 5773.5 | 5780.7 | 5830.9 | 5856.8 | 5879.2 | 5887.3 | 5890.9 |
| 35° | 6276.2 | 6208.1 | 6142.7 | 6107.8 | 6077.3 | 6085.3 | 6121.2 | 6163.3 | 6212.6 | 6246.6 | 6287.0 |
| 37.5° | 6846.1 | 6762.8 | 6647.2 | 6564.8 | 6544.1 | 6499.3 | 6522.6 | 6555.8 | 6604.2 | 6657.1 | 6727.0 |
| 40° | 7537.0 | 7410.7 | 7280.7 | 7171.4 | 7112.3 | 7029.8 | 7028.9 | 7022.7 | 7052.2 | 7101.5 | 7200.1 |
| 42.5° | 8201.9 | 8089.9 | 7951.9 | 7837.2 | 7760.1 | 7649.9 | 7627.5 | 7569.3 | 7582.7 | 7625.7 | 7721.6 |
| 45° | 8824.7 | 8732.4 | 8648.2 | 8515.5 | 8450.1 | 8331.0 | 8293.3 | 8224.3 | 8185.8 | 8205.5 | 8301.4 |
| 47.5° | 9427.8 | 9368.6 | 9280.8 | 9194.8 | 9144.6 | 9038.0 | 8989.6 | 8940.3 | 8891.0 | 8889.2 | 8989.6 |
| 50° | 10603.4 | 10572.1 | 10468.1 | 10378.5 | 10402.7 | 10271.9 | 10279.9 | 10147.3 | 10207.4 | 10214.5 | 10425.1 |
| 52.5° | 11708.3 | 11817.6 | 11894.7 | 11988.8 | 12049.7 | 12061.4 | 12101.7 | 12161.7 | 12234.3 | 12377.7 | 12573.0 |
| 55° | 12341.0 | 12478.1 | 12557.8 | 12629.5 | 12747.8 | 12772.9 | 12840.1 | 12919.8 | 12983.5 | 13144.7 | 13310.5 |
| 57.5° | 13092.8 | 13347.3 | 13470.9 | 13584.7 | 13744.2 | 13805.2 | 13917.2 | 14004.1 | 14086.5 | 14277.4 | 14478.1 |
| 60° | 13556.1 | 13866.1 | 14117.9 | 14298.0 | 14497.8 | 14641.2 | 14810.6 | 14946.8 | 15140.3 | 15368.8 | 15668.1 |
| 62.5° | 13187.8 | 13643.0 | 13977.2 | 14286.4 | 14557.9 | 14832.1 | 15074.9 | 15329.4 | 15623.3 | 15969.2 | 16433.4 |
| 65° | 11720.9 | 12184.1 | 12756.7 | 13077.5 | 13436.9 | 13859.8 | 14229.0 | 14641.2 | 15041.8 | 15545.4 | 16231.8 |
| 67.5° | 9435.8 | 9974.4 | 10617.8 | 10941.3 | 11354.4 | 11826.6 | 12240.6 | 12744.2 | 13212.0 | 13822.2 | 14670.8 |
| 70° | 6801.3 | 7497.6 | 8038.8 | 8376.7 | 8858.7 | 9345.3 | 9745.0 | 10331.0 | 10718.1 | 11343.6 | 12220.9 |
| 72.5° | 4306.6 | 4855.9 | 5519.0 | 5944.7 | 6373.0 | 6865.8 | 7274.5 | 7779.9 | 8141.0 | 8710.9 | 9505.7 |
| 75° | 2315.5 | 2720.5 | 3303.0 | 3707.1 | 4165.9 | 4587.1 | 5065.6 | 5404.3 | 5671.4 | 6122.1 | 6767.3 |
| 77.5° | 1085.2 | 1331.6 | 1626.4 | 1937.3 | 2248.3 | 2572.7 | 2888.1 | 3162.3 | 3277.0 | 3535.1 | 3915.9 |
| 80° | 658.6 | 738.4 | 824.4 | 920.3 | 1050.2 | 1155.1 | 1294.0 | 1394.3 | 1401.5 | 1483.0 | 1599.5 |
| 82.5° | 440.0 | 469.6 | 495.5 | 519.7 | 552.9 | 578.9 | 608.4 | 643.4 | 657.7 | 676.5 | 714.2 |
| 85° | 300.2 | 314.5 | 319.9 | 335.1 | 331.6 | 340.5 | 352.2 | 363.8 | 370.1 | 369.2 | 386.2 |
| 87.5° | 184.6 | 191.8 | 195.3 | 198.9 | 196.2 | 192.7 | 198.0 | 204.3 | 206.1 | 200.7 | 202.5 |
| 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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CANDELA DISTRIBUTION (continued):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 |
| 2.5° | 1642.5 | 1634.5 | 1626.4 | 1621.0 | 1619.2 | 1571.7 | 1551.1 | 1537.7 | 1509.0 | 1485.7 | 1466.9 |
| 5° | 1811.9 | 1794.9 | 1781.4 | 1765.3 | 1756.3 | 1636.3 | 1592.4 | 1561.9 | 1511.7 | 1482.1 | 1455.3 |
| 7.5° | 2084.3 | 2036.8 | 2009.0 | 1977.7 | 1950.8 | 1733.9 | 1661.4 | 1613.9 | 1544.0 | 1504.5 | 1474.1 |
| 10° | 2393.5 | 2344.2 | 2300.3 | 2251.9 | 2209.8 | 1863.9 | 1758.1 | 1684.6 | 1592.4 | 1541.3 | 1501.0 |
| 12.5° | 2738.5 | 2690.1 | 2634.5 | 2572.7 | 2518.9 | 2028.7 | 1881.8 | 1776.9 | 1650.6 | 1582.5 | 1526.0 |
| 15° | 3146.2 | 3061.0 | 2993.8 | 2922.2 | 2859.4 | 2225.9 | 2026.1 | 1880.9 | 1712.4 | 1620.1 | 1544.9 |
| 17.5° | 3525.2 | 3435.6 | 3344.2 | 3281.5 | 3208.9 | 2447.2 | 2171.2 | 1986.6 | 1763.5 | 1644.3 | 1548.4 |
| 20° | 3895.3 | 3797.6 | 3718.8 | 3634.5 | 3558.4 | 2676.6 | 2326.3 | 2079.8 | 1796.7 | 1645.2 | 1526.0 |
| 22.5° | 4221.5 | 4160.5 | 4072.7 | 3981.3 | 3904.3 | 2906.0 | 2471.4 | 2158.7 | 1809.2 | 1624.6 | 1486.6 |
| 25° | 4592.5 | 4527.9 | 4420.4 | 4343.3 | 4257.3 | 3139.9 | 2613.9 | 2219.6 | 1802.0 | 1586.1 | 1425.7 |
| 27.5° | 4988.5 | 4916.8 | 4806.6 | 4726.0 | 4622.0 | 3382.7 | 2744.7 | 2263.5 | 1775.2 | 1523.4 | 1344.1 |
| 30° | 5401.6 | 5336.2 | 5227.8 | 5146.2 | 5041.4 | 3639.9 | 2890.8 | 2293.1 | 1721.4 | 1436.4 | 1249.1 |
| 32.5° | 5845.2 | 5790.5 | 5683.0 | 5597.9 | 5485.9 | 3918.6 | 3027.0 | 2302.1 | 1639.8 | 1333.4 | 1148.8 |
| 35° | 6266.4 | 6228.7 | 6138.2 | 6058.5 | 5942.0 | 4182.1 | 3171.3 | 2297.6 | 1543.1 | 1220.5 | 1057.4 |
| 37.5° | 6740.4 | 6718.0 | 6673.2 | 6571.9 | 6429.4 | 4539.6 | 3344.2 | 2278.8 | 1424.8 | 1108.5 | 987.5 |
| 40° | 7245.8 | 7247.6 | 7199.2 | 7130.2 | 6997.6 | 4973.3 | 3550.3 | 2242.0 | 1295.7 | 1009.9 | 923.9 |
| 42.5° | 7780.8 | 7808.5 | 7785.2 | 7735.9 | 7608.7 | 5410.6 | 3796.7 | 2197.2 | 1170.3 | 914.0 | 861.1 |
| 45° | 8393.7 | 8427.7 | 8463.6 | 8391.0 | 8267.3 | 5987.7 | 4121.1 | 2139.0 | 1035.0 | 834.3 | 818.1 |
| 47.5° | 9100.7 | 9154.5 | 9186.7 | 9187.6 | 9064.0 | 6702.8 | 4648.0 | 2104.0 | 914.9 | 780.5 | 797.5 |
| 50° | 10592.7 | 10609.7 | 10685.9 | 10818.5 | 10723.5 | 8357.8 | 5568.3 | 2082.5 | 833.4 | 747.3 | 782.3 |
| 52.5° | 12742.4 | 12929.7 | 13061.4 | 13052.5 | 12923.4 | 9408.9 | 6075.5 | 1971.4 | 785.0 | 734.8 | 775.1 |
| 55° | 13617.9 | 13851.8 | 14095.5 | 14160.0 | 14059.7 | 10305.9 | 6554.9 | 1860.3 | 761.7 | 743.8 | 777.8 |
| 57.5° | 14784.6 | 15178.9 | 15513.1 | 15653.8 | 15508.6 | 11453.8 | 7185.7 | 1802.0 | 754.5 | 767.9 | 794.8 |
| 60° | 16147.5 | 16635.0 | 17074.1 | 17326.8 | 17326.8 | 12772.9 | 7839.9 | 1777.8 | 744.7 | 803.8 | 823.5 |
| 62.5° | 17023.0 | 17739.0 | 18402.1 | 18772.2 | 18761.4 | 13691.4 | 8130.2 | 1695.4 | 722.2 | 828.9 | 862.9 |
| 65° | 17026.6 | 17877.9 | 18722.9 | 19138.7 | 19160.2 | 13578.5 | 7650.8 | 1497.4 | 681.0 | 832.5 | 902.4 |
| 67.5° | 15607.2 | 16514.9 | 17499.7 | 17964.8 | 18072.4 | 12499.6 | 6623.0 | 1231.2 | 613.8 | 796.6 | 916.7 |
| 70° | 13181.5 | 14067.7 | 15073.1 | 15530.1 | 15721.0 | 10655.4 | 5334.4 | 949.0 | 527.8 | 717.8 | 887.1 |
| 72.5° | 10384.8 | 11254.0 | 11953.8 | 12288.1 | 12436.8 | 8144.6 | 3884.6 | 716.9 | 432.8 | 604.9 | 807.4 |
| 75° | 7352.4 | 8004.8 | 8376.7 | 8451.0 | 8474.3 | 4909.7 | 2360.3 | 533.2 | 356.6 | 470.4 | 681.9 |
| 77.5° | 4149.8 | 4429.4 | 4398.9 | 4432.1 | 4156.1 | 1895.2 | 1027.8 | 381.7 | 293.9 | 357.5 | 528.7 |
| 80° | 1620.1 | 1670.3 | 1569.1 | 1537.7 | 1410.4 | 705.2 | 453.4 | 266.1 | 234.8 | 270.6 | 370.1 |
| 82.5° | 714.2 | 737.5 | 716.0 | 721.4 | 690.0 | 363.8 | 271.5 | 192.7 | 179.2 | 198.0 | 245.5 |
| 85° | 393.4 | 400.6 | 398.8 | 410.4 | 393.4 | 145.2 | 129.0 | 118.3 | 125.5 | 134.4 | 157.7 |
| 87.5° | 191.8 | 193.6 | 187.3 | 197.1 | 190.9 | 73.5 | 63.6 | 67.2 | 73.5 | 75.3 | 75.3 |
| 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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| 2.5° | 1453.5 | 1446.3 | 1447.2 | 1445.4 | 1441.8 | 1441.8 |
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| 30° | 1134.5 | 1073.5 | 1043.0 | 1032.3 | 1022.4 | 1020.6 |
| 32.5° | 1056.5 | 1018.0 | 1006.3 | 991.1 | 967.8 | 965.1 |
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| 42.5° | 902.4 | 928.3 | 903.3 | 892.5 | 899.7 | 901.5 |
| 45° | 857.6 | 886.2 | 916.7 | 909.5 | 926.6 | 926.6 |
| 47.5° | 832.5 | 875.5 | 915.8 | 915.8 | 940.9 | 949.9 |
| 50° | 803.8 | 866.5 | 901.5 | 914.0 | 933.7 | 926.6 |
| 52.5° | 802.0 | 851.3 | 880.9 | 903.3 | 912.2 | 904.2 |
| 55° | 804.7 | 838.7 | 860.2 | 885.3 | 896.1 | 897.0 |
| 57.5° | 808.3 | 831.6 | 845.9 | 857.6 | 889.8 | 889.8 |
| 60° | 817.2 | 825.3 | 833.4 | 839.6 | 881.8 | 882.6 |
| 62.5° | 831.6 | 819.0 | 817.2 | 823.5 | 877.3 | 873.7 |
| 65° | 854.0 | 810.1 | 796.6 | 802.9 | 872.8 | 862.0 |
| 67.5° | 884.4 | 796.6 | 770.6 | 775.1 | 869.2 | 845.9 |
| 70° | 912.2 | 775.1 | 738.4 | 733.9 | 835.2 | 793.9 |
| 72.5° | 914.9 | 750.0 | 693.6 | 680.1 | 725.8 | 686.4 |
| 75° | 870.1 | 733.0 | 644.3 | 604.9 | 599.5 | 594.1 |
| 77.5° | 784.1 | 723.1 | 586.9 | 525.1 | 514.4 | 517.9 |
| 80° | 655.9 | 686.4 | 517.9 | 444.5 | 502.7 | 496.4 |
| 82.5° | 490.2 | 605.8 | 440.0 | 393.4 | 392.5 | 346.8 |
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