

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: P193963

Luminaire Tested: **GAN-AF-05-LED-U-T2R-8030-1200**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P193963  
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-05-LED-U-T2R-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 27744 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 320  
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

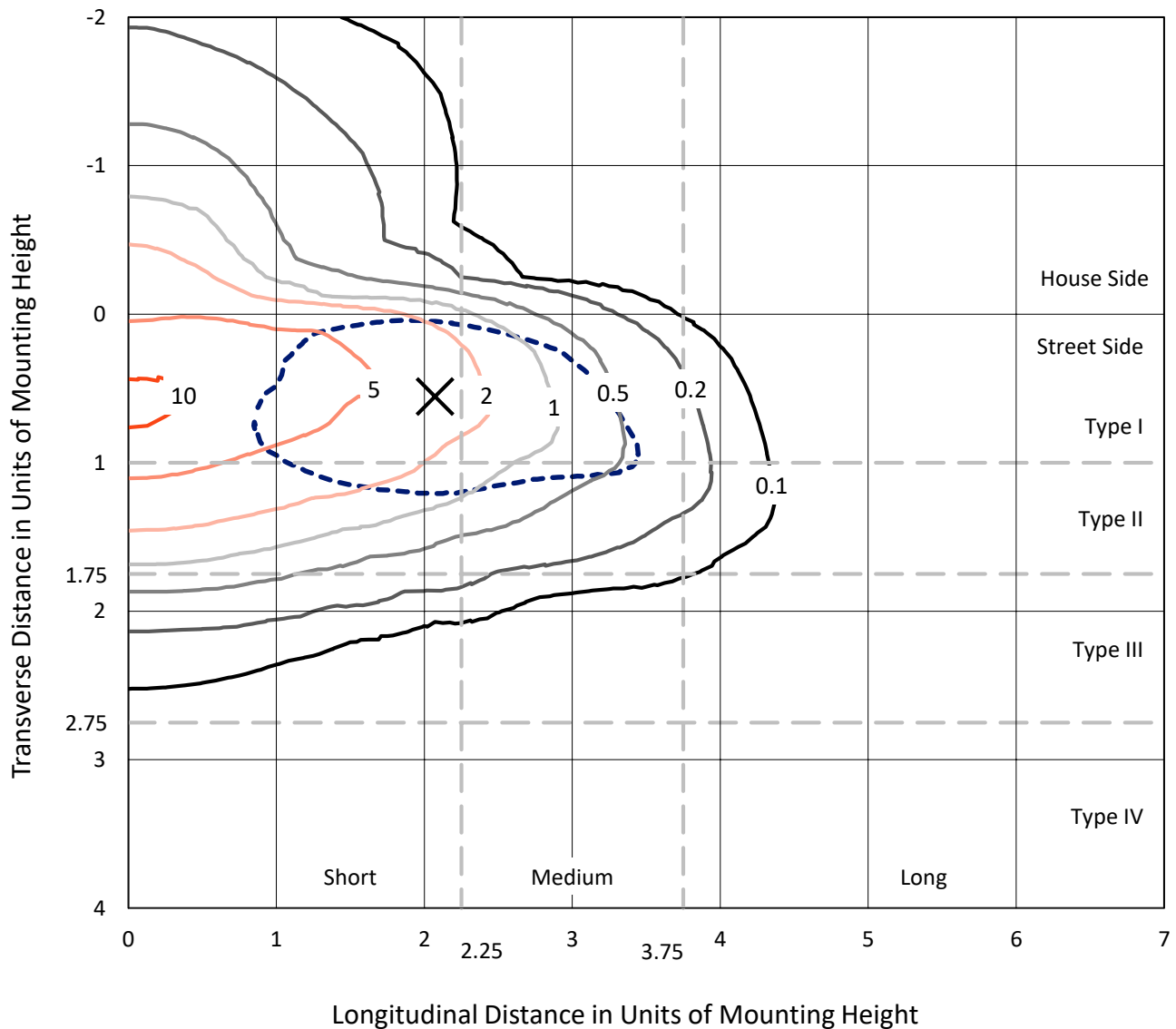


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

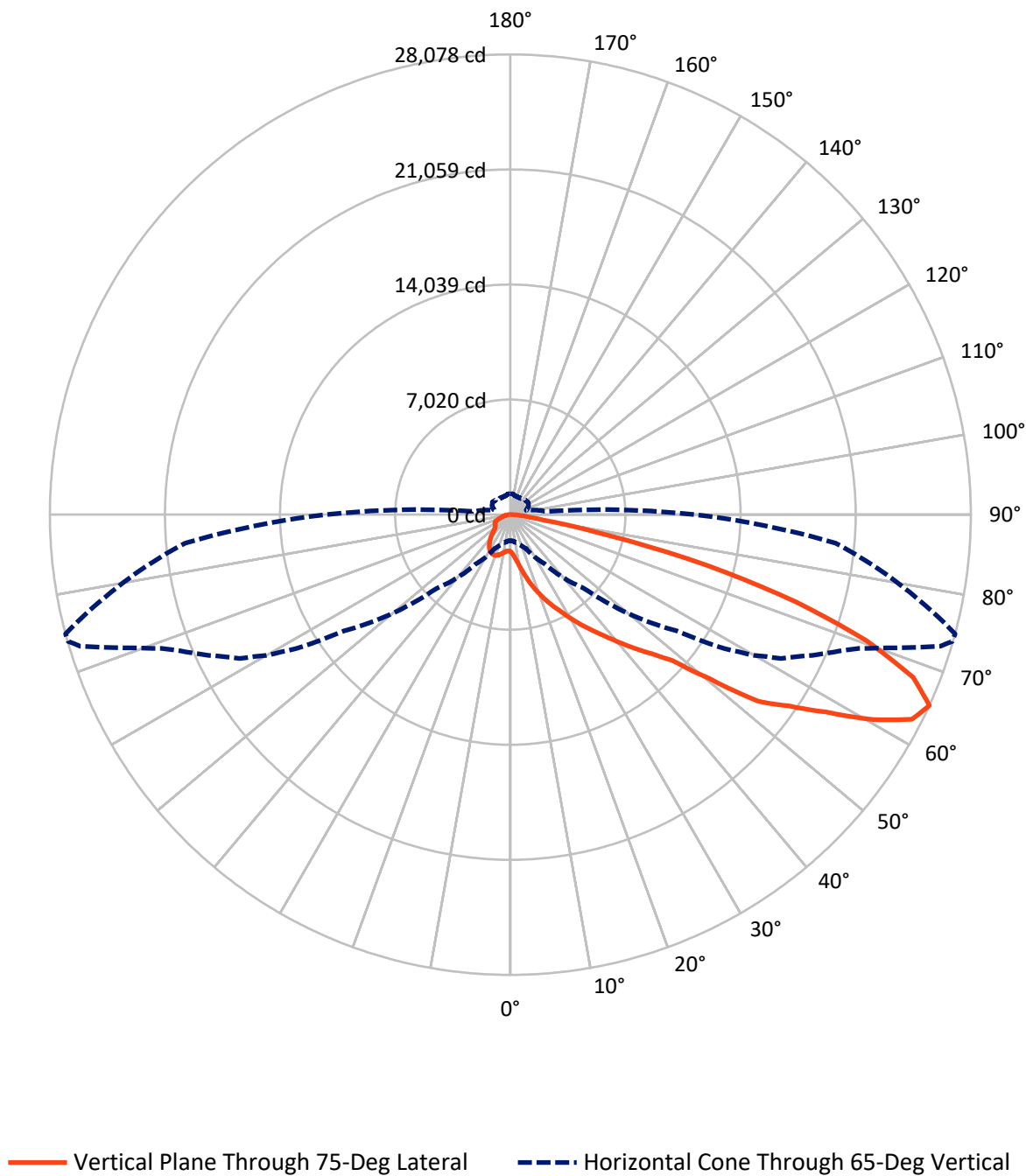


Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4277.5   | 0.0    | 4277.5  |
|                    | % Fixture | 15.4     | 0.0    | 15.4    |
| <b>Street Side</b> | Lumens    | 23466.5  | 0.0    | 23466.5 |
|                    | % Fixture | 84.6     | 0.0    | 84.6    |
| <b>Total</b>       | Lumens    | 27744.0  | 0.0    | 27744.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 278.7   | 1.0       |
| 10°-20°   | 1088.9  | 3.9       |
| 20°-30°   | 2234.1  | 8.1       |
| 30°-40°   | 3758.7  | 13.5      |
| 40°-50°   | 5193.5  | 18.7      |
| 50°-60°   | 6483.1  | 23.4      |
| 60°-70°   | 5834.1  | 21.0      |
| 70°-80°   | 2445.6  | 8.8       |
| 80°-90°   | 427.3   | 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°    | 27744.0 | 100.0     |
| 0°-180°   | 27744.0 | 100.0     |

**Coefficient of Utilization**



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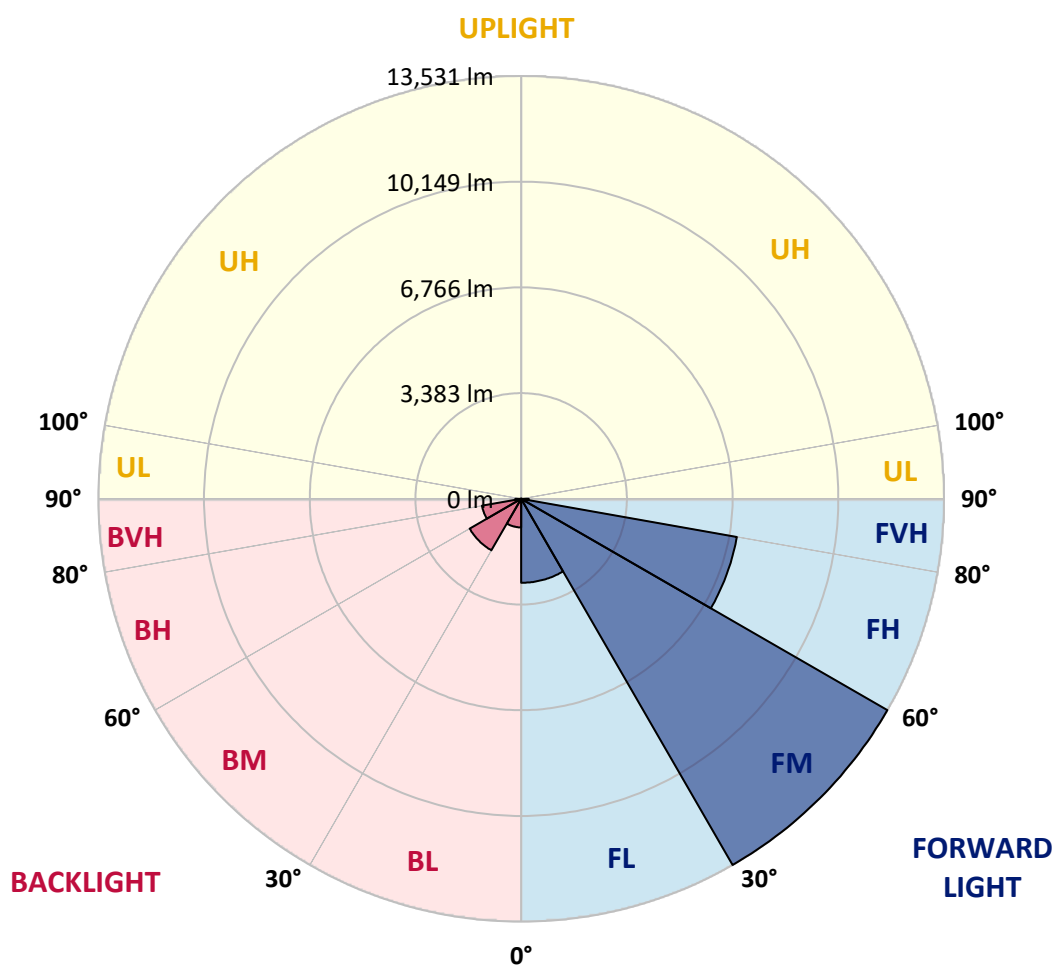
CATALOG NUMBER: GAN-AF-05-LED-U-T2R-8030-1200

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2686.9  | 9.7       |                         |      |         |
| FM   | (30°-60°)   | 13531.4 | 48.8      |                         |      |         |
| FH   | (60°-80°)   | 7008.0  | 25.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 240.1   | 0.9       |                         |      | G3/500  |
| BL   | (0°-30°)    | 914.8   | 3.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1904.0  | 6.9       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1271.6  | 4.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 187.1   | 0.7       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 57°     | 58°     | 59°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2254.7  | 2254.7  | 2254.7  | 2254.7  | 2254.7  | 2254.7  | 2254.7  | 2254.7  | 2254.7  | 2254.7  | 2254.7  |
| 2.5°  | 2862.7  | 2831.2  | 2839.1  | 2786.6  | 2722.2  | 2638.2  | 2544.9  | 2543.6  | 2544.9  | 2535.8  | 2501.6  |
| 5°    | 3969.7  | 3931.7  | 3917.2  | 3799.0  | 3625.7  | 3378.8  | 3110.9  | 3082.0  | 3070.2  | 3040.0  | 2970.4  |
| 7.5°  | 4777.4  | 4756.3  | 4734.0  | 4644.7  | 4487.1  | 4211.4  | 3851.6  | 3789.8  | 3730.7  | 3716.3  | 3637.5  |
| 10°   | 5298.7  | 5293.4  | 5246.2  | 5222.5  | 5124.0  | 4885.0  | 4534.4  | 4475.3  | 4411.0  | 4388.6  | 4305.9  |
| 12.5° | 5711.0  | 5709.7  | 5687.4  | 5694.0  | 5608.6  | 5435.3  | 5133.2  | 5079.4  | 5032.1  | 4963.8  | 4904.7  |
| 15°   | 5996.0  | 5997.3  | 6030.1  | 6066.9  | 6053.8  | 5936.9  | 5653.2  | 5629.6  | 5588.9  | 5541.6  | 5472.0  |
| 17.5° | 6229.7  | 6236.3  | 6270.4  | 6337.4  | 6409.6  | 6400.4  | 6175.9  | 6156.2  | 6120.7  | 6056.4  | 6019.6  |
| 20°   | 6757.6  | 6782.6  | 6716.9  | 6716.9  | 6724.8  | 6760.3  | 6652.6  | 6636.8  | 6586.9  | 6552.8  | 6523.9  |
| 22.5° | 7649.3  | 7678.2  | 7529.8  | 7378.8  | 7230.4  | 7122.7  | 7015.0  | 7034.7  | 7000.6  | 6976.9  | 6959.9  |
| 25°   | 8807.5  | 8829.8  | 8589.5  | 8334.8  | 8032.7  | 7638.8  | 7372.2  | 7360.4  | 7342.0  | 7327.5  | 7319.7  |
| 27.5° | 9897.4  | 9906.6  | 9679.5  | 9306.5  | 8955.9  | 8389.9  | 7734.6  | 7720.2  | 7697.9  | 7670.3  | 7646.6  |
| 30°   | 10829.8 | 10827.2 | 10593.4 | 10237.6 | 9862.0  | 9235.6  | 8284.9  | 8240.2  | 8174.5  | 8099.7  | 8041.9  |
| 32.5° | 11637.4 | 11633.5 | 11377.4 | 11008.4 | 10614.4 | 10073.4 | 9038.6  | 8946.7  | 8844.3  | 8698.5  | 8610.5  |
| 35°   | 12273.0 | 12270.4 | 12028.7 | 11644.0 | 11192.2 | 10862.6 | 9902.7  | 9789.8  | 9659.8  | 9464.1  | 9328.8  |
| 37.5° | 12513.3 | 12513.3 | 12378.0 | 12115.4 | 11716.2 | 11490.3 | 10862.6 | 10726.1 | 10586.9 | 10364.9 | 10212.6 |
| 40°   | 12372.8 | 12375.4 | 12404.3 | 12355.7 | 12161.4 | 11988.0 | 11758.2 | 11676.8 | 11557.3 | 11357.7 | 11198.8 |
| 42.5° | 11901.4 | 11915.8 | 12107.5 | 12342.6 | 12439.8 | 12412.2 | 12552.7 | 12515.9 | 12431.9 | 12278.2 | 12152.2 |
| 45°   | 11303.9 | 11348.5 | 11558.6 | 12002.5 | 12517.2 | 12778.6 | 13218.5 | 13222.4 | 13206.7 | 13123.9 | 13026.7 |
| 47.5° | 10483.1 | 10546.2 | 10823.2 | 11423.4 | 12336.0 | 13134.4 | 13894.8 | 13930.2 | 13963.0 | 13909.2 | 13864.6 |
| 50°   | 9393.2  | 9468.0  | 9883.0  | 10678.8 | 11967.0 | 13503.4 | 15172.5 | 15332.7 | 15482.4 | 15464.0 | 15494.2 |
| 52.5° | 8225.8  | 8313.7  | 8821.9  | 9708.3  | 11332.7 | 13588.8 | 15989.3 | 16250.6 | 16511.9 | 16726.0 | 16953.2 |
| 55°   | 7172.6  | 7125.3  | 7633.5  | 8567.2  | 10290.1 | 13204.0 | 16723.4 | 17038.5 | 17330.0 | 17592.7 | 17863.2 |
| 57.5° | 5745.2  | 5822.6  | 6332.2  | 7255.3  | 8909.9  | 12118.0 | 17228.9 | 17689.9 | 18108.8 | 18543.4 | 18926.9 |
| 60°   | 4199.6  | 4277.0  | 4829.9  | 5767.5  | 7411.6  | 10471.3 | 16842.9 | 17541.5 | 18212.5 | 18878.3 | 19398.3 |
| 62.5° | 2535.8  | 2593.5  | 3080.7  | 3973.7  | 5715.0  | 8518.6  | 15122.6 | 16039.2 | 17026.7 | 17822.5 | 18619.6 |
| 65°   | 1578.4  | 1611.3  | 1791.2  | 2282.3  | 3670.3  | 6359.7  | 12355.7 | 13355.0 | 14418.7 | 15428.6 | 16257.2 |
| 67.5° | 1292.2  | 1304.0  | 1336.8  | 1441.9  | 2015.7  | 4147.0  | 9196.2  | 10081.3 | 11041.2 | 12018.2 | 12940.1 |
| 70°   | 1162.2  | 1154.3  | 1154.3  | 1160.9  | 1292.2  | 2229.8  | 6020.9  | 6597.4  | 7397.1  | 8246.8  | 9089.8  |
| 72.5° | 1049.2  | 1041.4  | 1026.9  | 1007.2  | 1054.5  | 1360.5  | 3112.2  | 3546.9  | 4123.4  | 4878.5  | 5686.1  |
| 75°   | 942.9   | 932.4   | 915.3   | 890.3   | 923.2   | 1026.9  | 1494.4  | 1676.9  | 1958.0  | 2359.8  | 2810.2  |
| 77.5° | 832.6   | 819.4   | 803.7   | 785.3   | 827.3   | 798.4   | 875.9   | 941.6   | 1049.2  | 1177.9  | 1347.3  |
| 80°   | 707.8   | 696.0   | 690.7   | 681.5   | 731.4   | 608.0   | 618.5   | 659.2   | 722.2   | 791.8   | 870.6   |
| 82.5° | 554.2   | 554.2   | 575.2   | 579.1   | 634.3   | 437.3   | 462.2   | 497.7   | 530.5   | 567.3   | 604.1   |
| 85°   | 365.1   | 367.7   | 438.6   | 466.2   | 500.3   | 294.2   | 346.7   | 358.5   | 384.8   | 405.8   | 421.5   |
| 87.5° | 114.2   | 123.4   | 267.9   | 296.8   | 287.6   | 166.8   | 212.7   | 218.0   | 236.4   | 250.8   | 263.9   |
| 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):**

|       | 60°     | 61°     | 62°     | 63°     | 64°     | 65°     | 66°     | 67°     | 68°     | 69°     | 70°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2254.7  | 2254.7  | 2254.7  | 2254.7  | 2254.7  | 2254.7  | 2254.7  | 2254.7  | 2254.7  | 2254.7  | 2254.7  |
| 2.5°  | 2501.6  | 2485.9  | 2471.4  | 2470.1  | 2459.6  | 2445.1  | 2450.4  | 2428.1  | 2429.4  | 2417.6  | 2404.4  |
| 5°    | 2941.5  | 2931.0  | 2878.5  | 2864.0  | 2824.7  | 2799.7  | 2795.8  | 2743.2  | 2736.7  | 2706.5  | 2673.6  |
| 7.5°  | 3574.5  | 3540.3  | 3466.8  | 3431.3  | 3364.4  | 3314.5  | 3290.8  | 3221.2  | 3187.1  | 3108.3  | 3072.8  |
| 10°   | 4237.6  | 4194.3  | 4103.7  | 4053.8  | 3989.4  | 3909.3  | 3866.0  | 3764.9  | 3725.5  | 3653.3  | 3566.6  |
| 12.5° | 4852.2  | 4808.9  | 4715.6  | 4677.5  | 4592.2  | 4506.8  | 4459.6  | 4345.3  | 4294.1  | 4178.5  | 4110.3  |
| 15°   | 5420.8  | 5377.5  | 5296.1  | 5256.7  | 5171.3  | 5101.7  | 5038.7  | 4925.7  | 4865.3  | 4757.7  | 4668.4  |
| 17.5° | 5972.3  | 5926.4  | 5855.5  | 5820.0  | 5737.3  | 5666.4  | 5598.1  | 5491.7  | 5430.0  | 5322.3  | 5242.2  |
| 20°   | 6484.5  | 6450.3  | 6399.1  | 6351.9  | 6269.1  | 6204.8  | 6123.4  | 6031.4  | 5942.1  | 5863.4  | 5787.2  |
| 22.5° | 6931.0  | 6917.8  | 6862.7  | 6841.7  | 6770.8  | 6715.6  | 6644.7  | 6554.1  | 6489.7  | 6389.9  | 6319.0  |
| 25°   | 7315.7  | 7311.8  | 7285.5  | 7279.0  | 7229.1  | 7176.5  | 7160.8  | 7085.9  | 7026.8  | 6938.8  | 6865.3  |
| 27.5° | 7646.6  | 7650.6  | 7644.0  | 7662.4  | 7649.3  | 7625.6  | 7627.0  | 7602.0  | 7567.9  | 7494.3  | 7430.0  |
| 30°   | 8014.3  | 7993.3  | 8005.1  | 8031.4  | 8039.3  | 8041.9  | 8085.3  | 8099.7  | 8097.1  | 8048.5  | 8017.0  |
| 32.5° | 8534.4  | 8484.5  | 8438.5  | 8434.6  | 8460.8  | 8471.3  | 8544.9  | 8582.9  | 8615.8  | 8627.6  | 8632.8  |
| 35°   | 9197.5  | 9097.7  | 9001.9  | 8950.6  | 8906.0  | 8917.8  | 8970.3  | 9032.1  | 9104.3  | 9154.2  | 9213.3  |
| 37.5° | 10032.7 | 9910.6  | 9741.2  | 9620.4  | 9590.2  | 9524.5  | 9558.6  | 9607.2  | 9678.1  | 9755.6  | 9858.0  |
| 40°   | 11045.2 | 10860.0 | 10669.6 | 10509.4 | 10422.7 | 10301.9 | 10300.6 | 10291.4 | 10334.7 | 10407.0 | 10551.4 |
| 42.5° | 12019.5 | 11855.4 | 11653.2 | 11485.1 | 11372.1 | 11210.6 | 11177.8 | 11092.4 | 11112.1 | 11175.2 | 11315.7 |
| 45°   | 12932.2 | 12796.9 | 12673.5 | 12479.2 | 12383.3 | 12208.6 | 12153.5 | 12052.4 | 11995.9 | 12024.8 | 12165.3 |
| 47.5° | 13816.0 | 13729.3 | 13600.6 | 13474.5 | 13401.0 | 13244.7 | 13173.8 | 13101.6 | 13029.4 | 13026.7 | 13173.8 |
| 50°   | 15538.9 | 15492.9 | 15340.6 | 15209.3 | 15244.7 | 15053.0 | 15064.8 | 14870.5 | 14958.4 | 14968.9 | 15277.5 |
| 52.5° | 17158.0 | 17318.2 | 17431.2 | 17569.0 | 17658.3 | 17675.4 | 17734.5 | 17822.5 | 17928.9 | 18139.0 | 18425.2 |
| 55°   | 18085.1 | 18286.0 | 18402.9 | 18508.0 | 18681.3 | 18718.1 | 18816.6 | 18933.4 | 19026.7 | 19263.0 | 19506.0 |
| 57.5° | 19186.9 | 19559.8 | 19741.0 | 19907.8 | 20141.6 | 20230.9 | 20395.0 | 20522.4 | 20643.2 | 20922.9 | 21217.1 |
| 60°   | 19865.8 | 20320.2 | 20689.2 | 20953.1 | 21245.9 | 21456.1 | 21704.2 | 21903.8 | 22187.5 | 22522.4 | 22961.0 |
| 62.5° | 19326.1 | 19993.2 | 20483.0 | 20936.0 | 21333.9 | 21735.8 | 22091.6 | 22464.6 | 22895.3 | 23402.2 | 24082.4 |
| 65°   | 17176.4 | 17855.3 | 18694.4 | 19164.6 | 19691.1 | 20311.0 | 20852.0 | 21456.1 | 22043.0 | 22781.1 | 23786.9 |
| 67.5° | 13827.8 | 14617.0 | 15559.9 | 16033.9 | 16639.3 | 17331.4 | 17938.0 | 18676.1 | 19361.5 | 20255.8 | 21499.4 |
| 70°   | 9967.0  | 10987.4 | 11780.5 | 12275.6 | 12982.1 | 13695.2 | 14280.8 | 15139.7 | 15707.0 | 16623.6 | 17909.2 |
| 72.5° | 6311.1  | 7116.1  | 8087.9  | 8711.6  | 9339.3  | 10061.6 | 10660.4 | 11401.0 | 11930.2 | 12765.4 | 13930.2 |
| 75°   | 3393.3  | 3986.8  | 4840.4  | 5432.6  | 6105.0  | 6722.2  | 7423.4  | 7919.8  | 8311.1  | 8971.6  | 9917.1  |
| 77.5° | 1590.3  | 1951.4  | 2383.4  | 2839.1  | 3294.8  | 3770.1  | 4232.4  | 4634.2  | 4802.3  | 5180.5  | 5738.6  |
| 80°   | 965.2   | 1082.1  | 1208.1  | 1348.6  | 1539.0  | 1692.7  | 1896.2  | 2043.3  | 2053.8  | 2173.3  | 2344.0  |
| 82.5° | 644.8   | 688.1   | 726.2   | 761.6   | 810.2   | 848.3   | 891.6   | 942.9   | 963.9   | 991.5   | 1046.6  |
| 85°   | 439.9   | 460.9   | 468.8   | 491.1   | 485.9   | 499.0   | 516.1   | 533.2   | 542.3   | 541.0   | 566.0   |
| 87.5° | 270.5   | 281.0   | 286.3   | 291.5   | 287.6   | 282.3   | 290.2   | 299.4   | 302.0   | 294.2   | 296.8   |
| 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):**

|       | 71°     | 72°     | 73°     | 74°     | 75°     | 85°     | 90°     | 95°    | 105°   | 115°   | 125°   |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 2254.7  | 2254.7  | 2254.7  | 2254.7  | 2254.7  | 2254.7  | 2254.7  | 2254.7 | 2254.7 | 2254.7 | 2254.7 |
| 2.5°  | 2407.1  | 2395.2  | 2383.4  | 2375.5  | 2372.9  | 2303.3  | 2273.1  | 2253.4 | 2211.4 | 2177.3 | 2149.7 |
| 5°    | 2655.3  | 2630.3  | 2610.6  | 2587.0  | 2573.8  | 2397.9  | 2333.5  | 2288.9 | 2215.3 | 2172.0 | 2132.6 |
| 7.5°  | 3054.5  | 2984.9  | 2944.2  | 2898.2  | 2858.8  | 2541.0  | 2434.6  | 2365.0 | 2262.6 | 2204.8 | 2160.2 |
| 10°   | 3507.5  | 3435.3  | 3370.9  | 3300.0  | 3238.3  | 2731.4  | 2576.5  | 2468.8 | 2333.5 | 2258.7 | 2199.6 |
| 12.5° | 4013.1  | 3942.2  | 3860.8  | 3770.1  | 3691.4  | 2973.0  | 2757.7  | 2604.0 | 2418.9 | 2319.1 | 2236.3 |
| 15°   | 4610.6  | 4485.8  | 4387.3  | 4282.3  | 4190.4  | 3261.9  | 2969.1  | 2756.4 | 2509.5 | 2374.2 | 2263.9 |
| 17.5° | 5166.1  | 5034.7  | 4900.8  | 4808.9  | 4702.5  | 3586.3  | 3181.8  | 2911.3 | 2584.3 | 2409.7 | 2269.2 |
| 20°   | 5708.4  | 5565.3  | 5449.7  | 5326.3  | 5214.6  | 3922.5  | 3409.0  | 3047.9 | 2632.9 | 2411.0 | 2236.3 |
| 22.5° | 6186.4  | 6097.1  | 5968.4  | 5834.5  | 5721.5  | 4258.6  | 3621.8  | 3163.5 | 2651.3 | 2380.8 | 2178.6 |
| 25°   | 6730.0  | 6635.5  | 6477.9  | 6365.0  | 6238.9  | 4601.4  | 3830.5  | 3252.7 | 2640.8 | 2324.3 | 2089.3 |
| 27.5° | 7310.5  | 7205.4  | 7043.9  | 6925.7  | 6773.4  | 4957.3  | 4022.3  | 3317.1 | 2601.4 | 2232.4 | 1969.8 |
| 30°   | 7915.9  | 7820.0  | 7661.1  | 7541.6  | 7388.0  | 5334.1  | 4236.3  | 3360.4 | 2522.6 | 2105.0 | 1830.6 |
| 32.5° | 8565.9  | 8485.8  | 8328.2  | 8203.4  | 8039.3  | 5742.5  | 4435.9  | 3373.6 | 2403.1 | 1954.0 | 1683.5 |
| 35°   | 9183.1  | 9127.9  | 8995.3  | 8878.4  | 8707.7  | 6128.6  | 4647.3  | 3367.0 | 2261.3 | 1788.6 | 1549.6 |
| 37.5° | 9877.7  | 9844.9  | 9779.3  | 9630.9  | 9422.1  | 6652.6  | 4900.8  | 3339.4 | 2088.0 | 1624.4 | 1447.1 |
| 40°   | 10618.4 | 10621.0 | 10550.1 | 10449.0 | 10254.6 | 7288.2  | 5202.8  | 3285.6 | 1898.9 | 1480.0 | 1353.9 |
| 42.5° | 11402.3 | 11443.1 | 11408.9 | 11336.7 | 11150.2 | 7929.0  | 5563.9  | 3219.9 | 1715.0 | 1339.4 | 1262.0 |
| 45°   | 12300.6 | 12350.5 | 12403.0 | 12296.6 | 12115.4 | 8774.7  | 6039.3  | 3134.6 | 1516.7 | 1222.6 | 1198.9 |
| 47.5° | 13336.7 | 13415.5 | 13462.7 | 13464.0 | 13282.8 | 9822.6  | 6811.5  | 3083.3 | 1340.8 | 1143.8 | 1168.7 |
| 50°   | 15523.1 | 15548.1 | 15659.7 | 15854.0 | 15714.8 | 12248.0 | 8160.1  | 3051.8 | 1221.3 | 1095.2 | 1146.4 |
| 52.5° | 18673.4 | 18947.9 | 19140.9 | 19127.8 | 18938.7 | 13788.4 | 8903.4  | 2889.0 | 1150.3 | 1076.8 | 1135.9 |
| 55°   | 19956.4 | 20299.1 | 20656.3 | 20750.9 | 20603.8 | 15102.9 | 9605.9  | 2726.2 | 1116.2 | 1089.9 | 1139.8 |
| 57.5° | 21666.2 | 22244.0 | 22733.8 | 22939.9 | 22727.2 | 16785.1 | 10530.4 | 2640.8 | 1105.7 | 1125.4 | 1164.8 |
| 60°   | 23663.5 | 24377.9 | 25021.3 | 25391.7 | 25391.7 | 18718.1 | 11489.0 | 2605.3 | 1091.3 | 1177.9 | 1206.8 |
| 62.5° | 24946.5 | 25995.7 | 26967.5 | 27509.8 | 27494.1 | 20064.1 | 11914.5 | 2484.5 | 1058.4 | 1214.7 | 1264.6 |
| 65°   | 24951.7 | 26199.3 | 27437.6 | 28046.9 | 28078.4 | 19898.6 | 11211.9 | 2194.3 | 998.0  | 1219.9 | 1322.4 |
| 67.5° | 22871.7 | 24201.9 | 25645.1 | 26326.6 | 26484.2 | 18317.6 | 9705.7  | 1804.3 | 899.5  | 1167.4 | 1343.4 |
| 70°   | 19316.9 | 20615.6 | 22089.0 | 22758.7 | 23038.4 | 15615.0 | 7817.4  | 1390.7 | 773.5  | 1051.9 | 1300.0 |
| 72.5° | 15218.4 | 16492.2 | 17517.8 | 18007.6 | 18225.6 | 11935.5 | 5692.6  | 1050.5 | 634.3  | 886.4  | 1183.2 |
| 75°   | 10774.6 | 11730.6 | 12275.6 | 12384.6 | 12418.7 | 7194.9  | 3458.9  | 781.3  | 522.6  | 689.4  | 999.3  |
| 77.5° | 6081.3  | 6491.1  | 6446.4  | 6495.0  | 6090.5  | 2777.4  | 1506.2  | 559.4  | 430.7  | 524.0  | 774.8  |
| 80°   | 2374.2  | 2447.8  | 2299.4  | 2253.4  | 2066.9  | 1033.5  | 664.5   | 390.0  | 344.1  | 396.6  | 542.3  |
| 82.5° | 1046.6  | 1080.7  | 1049.2  | 1057.1  | 1011.1  | 533.2   | 397.9   | 282.3  | 262.6  | 290.2  | 359.8  |
| 85°   | 576.5   | 587.0   | 584.4   | 601.4   | 576.5   | 212.7   | 189.1   | 173.3  | 183.8  | 197.0  | 231.1  |
| 87.5° | 281.0   | 283.6   | 274.5   | 288.9   | 279.7   | 107.7   | 93.2    | 98.5   | 107.7  | 110.3  | 110.3  |
| 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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| 0°    | 2254.7 | 2254.7 | 2254.7 | 2254.7 | 2254.7 | 2254.7 |
| 2.5°  | 2130.0 | 2119.5 | 2120.8 | 2118.2 | 2112.9 | 2112.9 |
| 5°    | 2111.6 | 2101.1 | 2101.1 | 2098.5 | 2091.9 | 2093.2 |
| 7.5°  | 2130.0 | 2112.9 | 2106.3 | 2097.1 | 2088.0 | 2088.0 |
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| 12.5° | 2166.7 | 2119.5 | 2089.3 | 2068.3 | 2056.4 | 2056.4 |
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| 25°   | 1913.3 | 1800.4 | 1729.5 | 1696.6 | 1683.5 | 1679.6 |
| 27.5° | 1784.6 | 1679.6 | 1619.2 | 1598.1 | 1586.3 | 1585.0 |
| 30°   | 1662.5 | 1573.2 | 1528.5 | 1512.8 | 1498.3 | 1495.7 |
| 32.5° | 1548.2 | 1491.8 | 1474.7 | 1452.4 | 1418.2 | 1414.3 |
| 35°   | 1466.8 | 1461.6 | 1449.8 | 1399.9 | 1357.8 | 1346.0 |
| 37.5° | 1416.9 | 1465.5 | 1405.1 | 1306.6 | 1276.4 | 1273.8 |
| 40°   | 1388.0 | 1424.8 | 1321.1 | 1286.9 | 1289.5 | 1286.9 |
| 42.5° | 1322.4 | 1360.5 | 1323.7 | 1307.9 | 1318.4 | 1321.1 |
| 45°   | 1256.7 | 1298.7 | 1343.4 | 1332.9 | 1357.8 | 1357.8 |
| 47.5° | 1219.9 | 1283.0 | 1342.1 | 1342.1 | 1378.8 | 1392.0 |
| 50°   | 1177.9 | 1269.8 | 1321.1 | 1339.4 | 1368.3 | 1357.8 |
| 52.5° | 1175.3 | 1247.5 | 1290.9 | 1323.7 | 1336.8 | 1325.0 |
| 55°   | 1179.2 | 1229.1 | 1260.7 | 1297.4 | 1313.2 | 1314.5 |
| 57.5° | 1184.5 | 1218.6 | 1239.6 | 1256.7 | 1304.0 | 1304.0 |
| 60°   | 1197.6 | 1209.4 | 1221.3 | 1230.5 | 1292.2 | 1293.5 |
| 62.5° | 1218.6 | 1200.2 | 1197.6 | 1206.8 | 1285.6 | 1280.4 |
| 65°   | 1251.5 | 1187.1 | 1167.4 | 1176.6 | 1279.0 | 1263.3 |
| 67.5° | 1296.1 | 1167.4 | 1129.3 | 1135.9 | 1273.8 | 1239.6 |
| 70°   | 1336.8 | 1135.9 | 1082.1 | 1075.5 | 1223.9 | 1163.5 |
| 72.5° | 1340.8 | 1099.1 | 1016.4 | 996.7  | 1063.7 | 1005.9 |
| 75°   | 1275.1 | 1074.2 | 944.2  | 886.4  | 878.5  | 870.6  |
| 77.5° | 1149.0 | 1059.7 | 860.1  | 769.5  | 753.8  | 759.0  |
| 80°   | 961.2  | 1005.9 | 759.0  | 651.3  | 736.7  | 727.5  |
| 82.5° | 718.3  | 887.7  | 644.8  | 576.5  | 575.2  | 508.2  |
| 85°   | 399.2  | 692.0  | 525.3  | 432.0  | 300.7  | 291.5  |
| 87.5° | 111.6  | 384.8  | 367.7  | 244.3  | 166.8  | 173.3  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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