

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: P192645

Luminaire Tested: **GAN-AF-07-LED-U-5WQ-7030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-5WQ-7030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47050.3 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 448
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

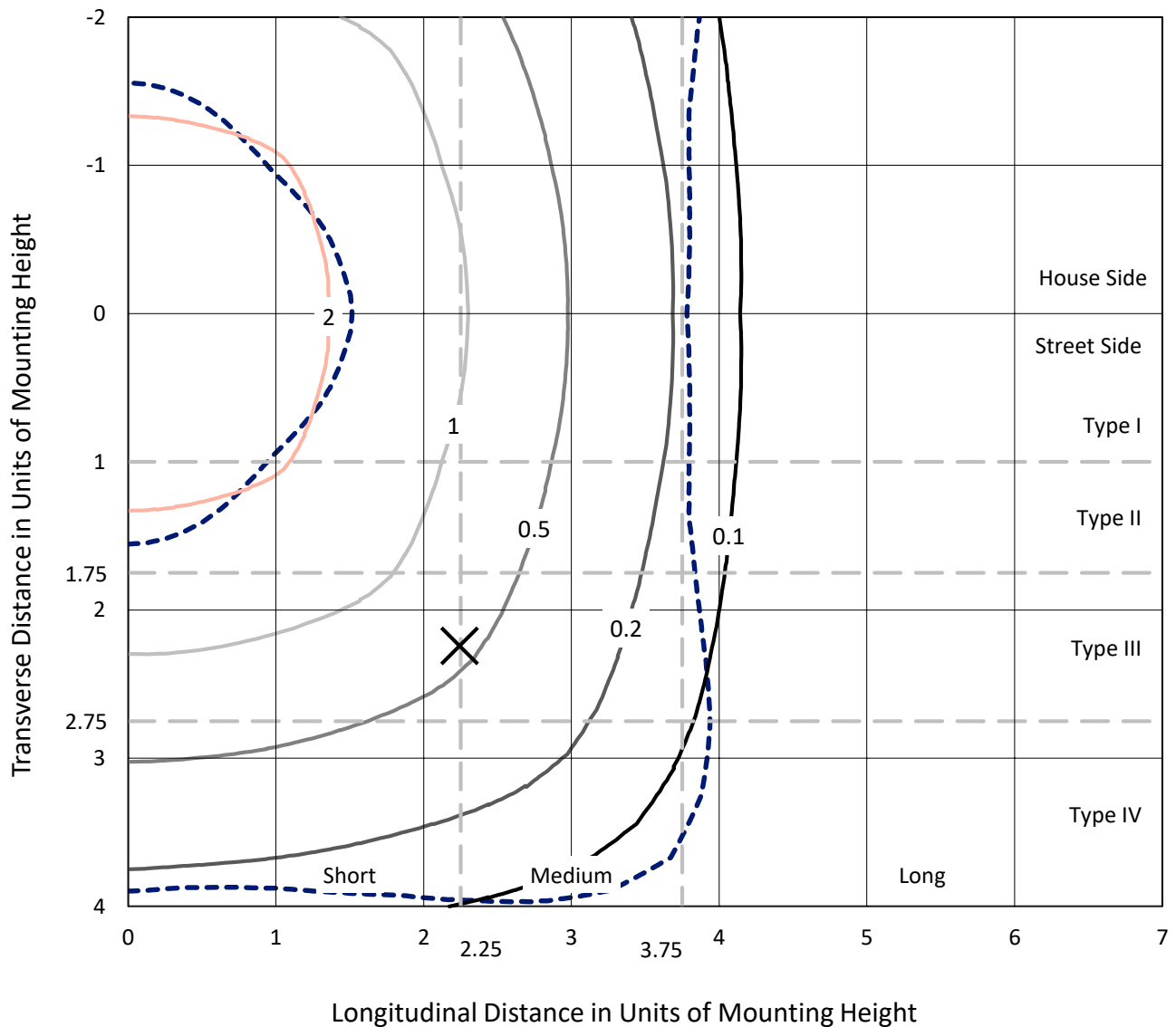


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

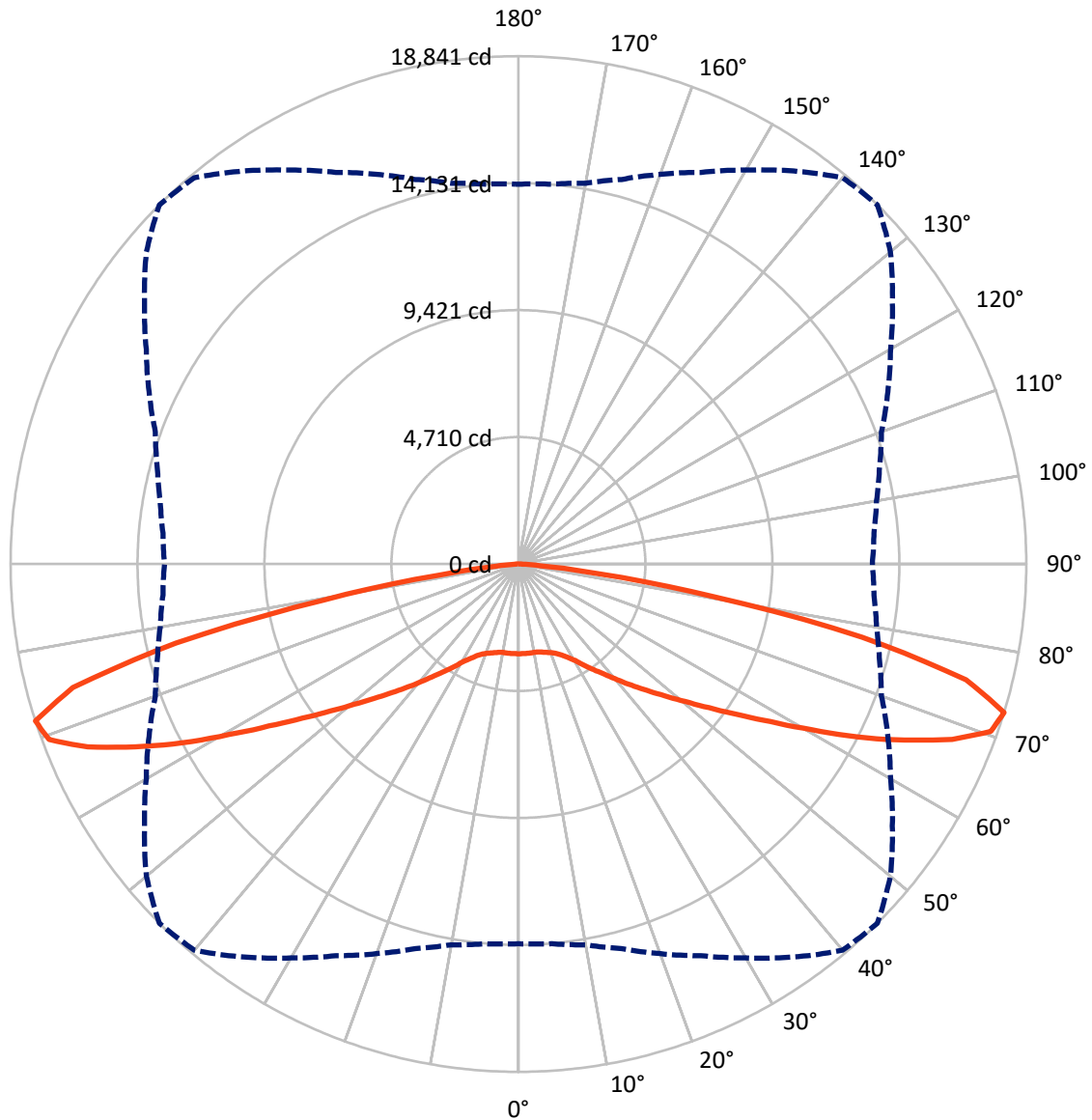


Based on 30 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 23525.2 | 0.0 | 23525.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 23525.2 | 0.0 | 23525.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 47050.3 | 0.0 | 47050.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 318.2 | 0.7 |
| 10°-20° | 966.3 | 2.1 |
| 20°-30° | 1765.8 | 3.8 |
| 30°-40° | 3044.5 | 6.5 |
| 40°-50° | 5204.6 | 11.1 |
| 50°-60° | 8436.0 | 17.9 |
| 60°-70° | 13994.9 | 29.7 |
| 70°-80° | 12326.3 | 26.2 |
| 80°-90° | 993.8 | 2.1 |
| 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° | 47050.3 | 100.0 |
| 0°-180° | 47050.3 | 100.0 |



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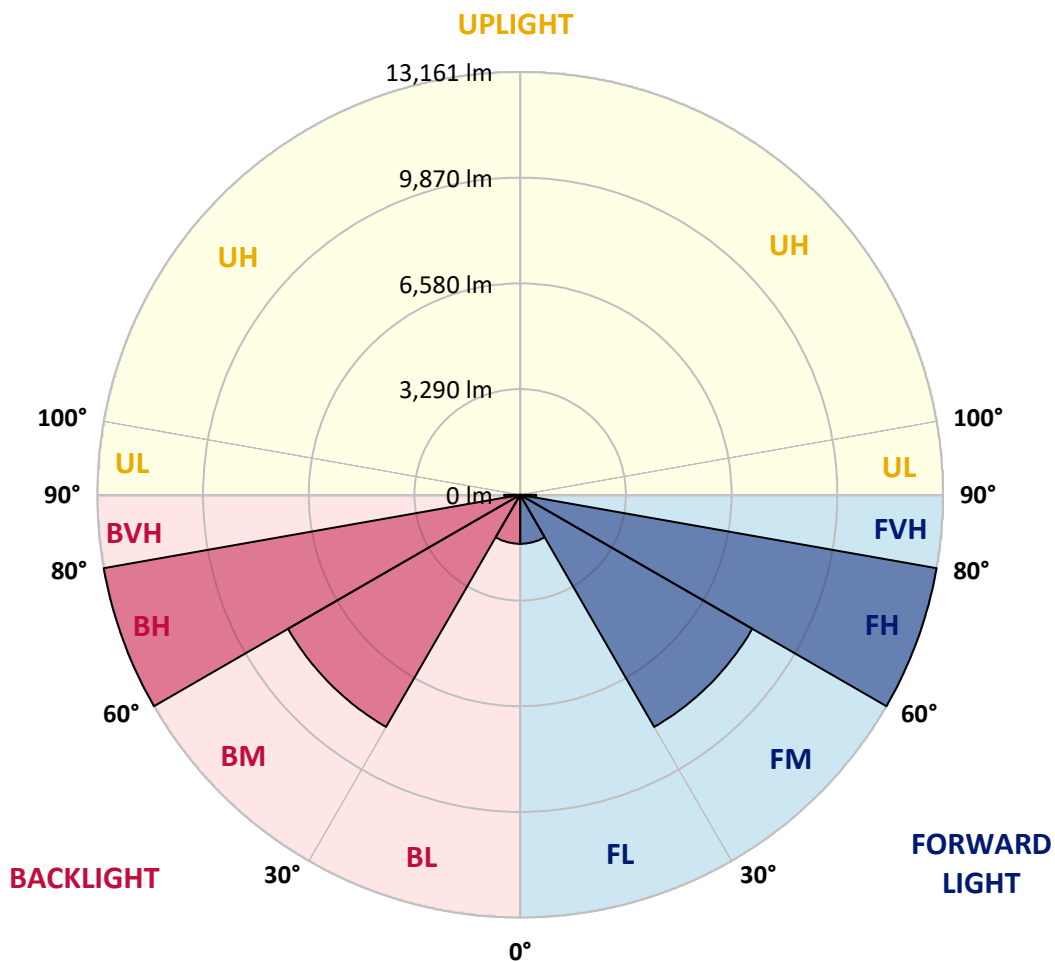
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 1525.1 | 3.2 | | | |
| FM | (30°-60°) | 8342.5 | 17.7 | | | |
| FH | (60°-80°) | 13160.6 | 28.0 | | | G5 |
| FVH | (80°-90°) | 496.9 | 1.1 | | | G3/500 |
| BL | (0°-30°) | 1525.1 | 3.2 | B3/2500 | | |
| BM | (30°-60°) | 8342.5 | 17.7 | B4/8500 | | |
| BH | (60°-80°) | 13160.6 | 28.0 | B5 | | G5 |
| BVH | (80°-90°) | 496.9 | 1.1 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3331.9 | 3331.9 | 3331.9 | 3331.9 | 3331.9 | 3331.9 | 3331.9 | 3331.9 | 3331.9 | 3331.9 | 3331.9 |
| 2.5° | 3331.9 | 3334.0 | 3336.2 | 3334.0 | 3334.0 | 3331.9 | 3329.7 | 3331.9 | 3329.7 | 3325.5 | 3327.6 |
| 5° | 3342.7 | 3347.0 | 3347.0 | 3342.7 | 3344.9 | 3342.7 | 3338.4 | 3340.5 | 3336.2 | 3329.7 | 3329.7 |
| 7.5° | 3355.7 | 3357.7 | 3357.7 | 3353.5 | 3355.7 | 3351.3 | 3347.0 | 3344.9 | 3340.5 | 3331.9 | 3325.5 |
| 10° | 3375.0 | 3377.2 | 3375.0 | 3370.7 | 3370.7 | 3364.3 | 3353.5 | 3349.2 | 3340.5 | 3327.6 | 3321.2 |
| 12.5° | 3396.7 | 3398.8 | 3396.7 | 3392.3 | 3390.2 | 3379.4 | 3370.7 | 3364.3 | 3357.7 | 3347.0 | 3336.2 |
| 15° | 3426.8 | 3431.2 | 3426.8 | 3418.1 | 3411.7 | 3403.1 | 3398.8 | 3400.9 | 3403.1 | 3394.4 | 3383.6 |
| 17.5° | 3482.9 | 3485.2 | 3478.6 | 3459.2 | 3450.6 | 3442.0 | 3442.0 | 3446.2 | 3452.7 | 3448.4 | 3437.7 |
| 20° | 3586.6 | 3580.1 | 3564.9 | 3541.2 | 3530.3 | 3515.3 | 3513.1 | 3515.3 | 3515.3 | 3513.1 | 3504.5 |
| 22.5° | 3716.0 | 3711.6 | 3692.3 | 3662.1 | 3647.0 | 3638.4 | 3625.3 | 3614.7 | 3612.4 | 3606.0 | 3597.4 |
| 25° | 3871.4 | 3869.2 | 3845.5 | 3819.6 | 3808.8 | 3798.0 | 3787.3 | 3772.0 | 3759.2 | 3744.1 | 3735.5 |
| 27.5° | 4069.9 | 4061.2 | 4026.7 | 4013.8 | 3998.7 | 3992.3 | 3977.1 | 3959.9 | 3949.0 | 3929.6 | 3918.9 |
| 30° | 4287.9 | 4287.9 | 4259.8 | 4255.5 | 4255.5 | 4240.4 | 4223.1 | 4193.0 | 4173.4 | 4154.0 | 4147.6 |
| 32.5° | 4505.9 | 4508.0 | 4479.9 | 4488.6 | 4495.0 | 4505.9 | 4510.1 | 4499.3 | 4486.4 | 4484.2 | 4471.3 |
| 35° | 4820.8 | 4812.3 | 4784.3 | 4790.7 | 4788.5 | 4786.3 | 4786.3 | 4810.1 | 4814.4 | 4818.8 | 4792.8 |
| 37.5° | 5211.4 | 5211.4 | 5183.5 | 5183.5 | 5170.4 | 5157.6 | 5140.2 | 5155.4 | 5179.1 | 5185.6 | 5168.3 |
| 40° | 5658.2 | 5673.3 | 5638.8 | 5636.5 | 5640.9 | 5599.9 | 5580.5 | 5604.2 | 5619.3 | 5645.2 | 5625.8 |
| 42.5° | 6184.7 | 6173.9 | 6139.4 | 6135.1 | 6111.3 | 6098.5 | 6081.2 | 6100.6 | 6124.3 | 6141.6 | 6148.0 |
| 45° | 6689.7 | 6681.1 | 6642.2 | 6642.2 | 6618.5 | 6607.7 | 6616.3 | 6648.7 | 6659.5 | 6683.2 | 6707.0 |
| 47.5° | 7188.1 | 7177.4 | 7151.4 | 7162.3 | 7164.4 | 7183.9 | 7211.8 | 7242.1 | 7272.3 | 7304.7 | 7315.5 |
| 50° | 7697.5 | 7699.6 | 7671.5 | 7697.5 | 7729.9 | 7783.7 | 7859.3 | 7908.9 | 7971.5 | 8012.5 | 8025.4 |
| 52.5° | 8161.4 | 8170.1 | 8200.2 | 8260.6 | 8325.4 | 8431.2 | 8560.7 | 8681.5 | 8785.1 | 8854.2 | 8849.8 |
| 55° | 8718.2 | 8731.1 | 8804.4 | 8908.0 | 9013.8 | 9173.5 | 9365.6 | 9579.2 | 9751.8 | 9851.2 | 9788.5 |
| 57.5° | 9430.2 | 9458.3 | 9540.3 | 9680.6 | 9838.1 | 10045.3 | 10308.6 | 10630.2 | 10897.7 | 11031.5 | 10930.1 |
| 60° | 10407.8 | 10425.1 | 10524.4 | 10679.8 | 10869.6 | 11126.4 | 11478.2 | 11909.8 | 12287.4 | 12464.4 | 12347.8 |
| 62.5° | 11696.2 | 11728.6 | 11808.4 | 11965.8 | 12160.1 | 12451.4 | 12880.9 | 13420.4 | 13890.7 | 14136.8 | 13873.5 |
| 65° | 13234.8 | 13338.4 | 13405.2 | 13565.0 | 13746.2 | 14054.8 | 14503.6 | 15082.0 | 15586.9 | 15748.8 | 15444.6 |
| 67.5° | 14758.3 | 14849.0 | 14965.5 | 15148.9 | 15332.4 | 15679.8 | 16096.2 | 16657.3 | 17211.9 | 17358.7 | 16886.0 |
| 70° | 15425.1 | 15476.9 | 15658.2 | 15908.4 | 16260.3 | 16670.2 | 17151.5 | 17781.6 | 18467.9 | 18588.8 | 17988.8 |
| 72.5° | 14089.3 | 14141.1 | 14344.0 | 14769.1 | 15381.9 | 16033.7 | 16873.1 | 17798.9 | 18705.1 | 18841.2 | 18014.6 |
| 75° | 10656.0 | 10571.8 | 10871.9 | 11435.1 | 12261.5 | 13170.0 | 14344.0 | 15671.2 | 16981.0 | 17151.5 | 16165.4 |
| 77.5° | 5507.1 | 5496.3 | 5722.9 | 6422.0 | 7408.4 | 8441.9 | 9734.6 | 11234.4 | 12516.2 | 13034.1 | 12231.3 |
| 80° | 1551.6 | 1568.9 | 1676.7 | 2024.1 | 2600.4 | 3347.0 | 4356.9 | 5761.8 | 6810.5 | 7345.7 | 6896.9 |
| 82.5° | 608.6 | 656.0 | 697.1 | 761.7 | 837.3 | 947.4 | 1264.5 | 1881.8 | 2524.8 | 3016.8 | 2470.9 |
| 85° | 218.0 | 233.0 | 330.2 | 390.6 | 397.0 | 418.7 | 476.9 | 556.7 | 671.2 | 800.7 | 658.2 |
| 87.5° | 82.1 | 90.6 | 105.8 | 174.9 | 172.6 | 157.6 | 192.1 | 200.7 | 151.1 | 138.1 | 170.5 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3331.9 | 3331.9 | 3331.9 | 3331.9 | 3331.9 | 3331.9 | 3331.9 | 3331.9 |
| 2.5° | 3323.2 | 3325.5 | 3325.5 | 3327.6 | 3329.7 | 3329.7 | 3334.0 | 3334.0 |
| 5° | 3325.5 | 3325.5 | 3321.2 | 3323.2 | 3321.2 | 3321.2 | 3323.2 | 3323.2 |
| 7.5° | 3321.2 | 3319.0 | 3314.6 | 3312.5 | 3308.2 | 3308.2 | 3308.2 | 3308.2 |
| 10° | 3314.6 | 3312.5 | 3308.2 | 3305.9 | 3303.9 | 3303.9 | 3303.9 | 3303.9 |
| 12.5° | 3331.9 | 3325.5 | 3321.2 | 3319.0 | 3319.0 | 3319.0 | 3319.0 | 3319.0 |
| 15° | 3377.2 | 3362.1 | 3351.3 | 3351.3 | 3353.5 | 3357.7 | 3357.7 | 3362.1 |
| 17.5° | 3433.4 | 3416.1 | 3405.3 | 3396.7 | 3400.9 | 3407.5 | 3411.7 | 3416.1 |
| 20° | 3500.2 | 3491.6 | 3476.5 | 3467.9 | 3467.9 | 3476.5 | 3480.8 | 3482.9 |
| 22.5° | 3593.0 | 3586.6 | 3580.1 | 3569.3 | 3569.3 | 3573.6 | 3582.2 | 3582.2 |
| 25° | 3731.1 | 3726.9 | 3722.5 | 3713.8 | 3711.6 | 3711.6 | 3716.0 | 3720.3 |
| 27.5° | 3903.8 | 3905.9 | 3901.6 | 3899.5 | 3893.0 | 3890.8 | 3897.3 | 3895.1 |
| 30° | 4134.7 | 4145.4 | 4156.2 | 4147.6 | 4136.8 | 4130.3 | 4123.9 | 4115.2 |
| 32.5° | 4447.5 | 4434.7 | 4426.0 | 4410.9 | 4391.4 | 4374.2 | 4361.2 | 4346.2 |
| 35° | 4743.2 | 4721.6 | 4713.0 | 4725.9 | 4723.9 | 4713.0 | 4697.9 | 4684.9 |
| 37.5° | 5105.6 | 5101.5 | 5105.6 | 5129.5 | 5125.2 | 5135.9 | 5105.6 | 5103.6 |
| 40° | 5563.3 | 5567.6 | 5597.8 | 5625.8 | 5640.9 | 5656.1 | 5638.8 | 5621.5 |
| 42.5° | 6094.1 | 6092.0 | 6102.6 | 6141.6 | 6167.4 | 6184.7 | 6148.0 | 6143.7 |
| 45° | 6655.2 | 6640.0 | 6648.7 | 6681.1 | 6707.0 | 6726.3 | 6685.3 | 6685.3 |
| 47.5° | 7272.3 | 7246.4 | 7218.4 | 7255.1 | 7270.2 | 7283.1 | 7250.8 | 7239.9 |
| 50° | 7960.7 | 7906.8 | 7846.4 | 7861.4 | 7861.4 | 7857.2 | 7816.2 | 7814.0 |
| 52.5° | 8750.6 | 8651.2 | 8541.3 | 8500.3 | 8476.5 | 8450.5 | 8379.4 | 8344.7 |
| 55° | 9659.1 | 9510.2 | 9337.6 | 9231.8 | 9175.7 | 9104.5 | 8985.7 | 8953.4 |
| 57.5° | 10720.7 | 10487.7 | 10189.8 | 10060.4 | 9935.3 | 9818.7 | 9687.2 | 9650.5 |
| 60° | 11978.8 | 11635.8 | 11240.8 | 11001.4 | 10865.3 | 10753.1 | 10617.2 | 10610.7 |
| 62.5° | 13381.5 | 12839.8 | 12393.2 | 12177.4 | 12078.1 | 11978.8 | 11849.3 | 11866.6 |
| 65° | 14807.9 | 14242.6 | 13823.9 | 13649.1 | 13556.4 | 13474.3 | 13344.8 | 13364.3 |
| 67.5° | 16214.9 | 15694.9 | 15235.2 | 15056.2 | 14952.5 | 14849.0 | 14732.4 | 14751.8 |
| 70° | 17224.8 | 16579.6 | 16061.6 | 15664.6 | 15416.5 | 15135.9 | 14954.7 | 14909.4 |
| 72.5° | 16935.7 | 15940.8 | 15118.6 | 14331.0 | 13869.3 | 13493.7 | 13239.1 | 13129.0 |
| 75° | 14656.9 | 13297.4 | 12240.0 | 11273.2 | 10729.4 | 10287.0 | 9965.4 | 9764.8 |
| 77.5° | 10884.7 | 9357.0 | 8107.5 | 6993.9 | 6113.5 | 5522.2 | 5105.6 | 4836.1 |
| 80° | 5958.1 | 4531.7 | 3312.5 | 2328.5 | 1711.2 | 1422.1 | 1255.9 | 1176.0 |
| 82.5° | 1855.9 | 1197.7 | 882.6 | 761.7 | 707.8 | 677.6 | 627.9 | 548.2 |
| 85° | 591.3 | 517.9 | 481.2 | 459.7 | 438.0 | 382.0 | 263.4 | 239.5 |
| 87.5° | 228.8 | 235.2 | 233.0 | 220.1 | 224.4 | 161.8 | 129.5 | 114.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)